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S O L A R - G E O P H Y S I C A L D A T A

NUMBER 565

(Issued in Two Parts)

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C O N T E N T S

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PART II (COMPREHENSIVE REPORTS)

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C O N T E N T S

Comprehensive Reports DATA FOR **MARCH 1991** Number 565 Part II

Hα SOLAR FLARES

MARCH 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	Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	LEAR	01	0117	0124	0133	S13	W53	6508	02	25.1	16	SF		3	E		34		
0002	VORO	01	0120	0124	0128	S17	W60	6509	02	24.6	8	SF			C	0124	63	1.2	DI
0003	YUNN	01	0218	0225	0235	S18	W61	6509	02	24.5	17	SN			C		47	1.0	
0004	YUNN	01	0256	0303	0308	S16	W62	6508	02	24.5	12	SN			C		31	0.7	
0005		01	04362	0443*	0513	N18	W42	6514	02	26.1	37	2B	M 2.0				291	4.5	EFKSU
	LEAR	01	0436	0443	0548D	N19	W41	6514	02	26.2	72D	2B			E		253		K
	LEAR	01	0436	0451	0548D	N19	W41	6514	02	26.2	72D	2B	M 2.0	3	E		341		UF
	PEKG	01	0438	0455	0515	N17	W43	6514	02	26.0	37	2N			C	0455	421	6.6	E
	WATU	01	0511E	0511D	0511	N19	W42	6514	02	26.1	37D	1N			P	0511	150	2.4	FSU
		01	1409		1457	No Flare Patrol													
		01	1505		1705	No Flare Patrol													
0006	PALE	01	1743	1743	1755	S23	W67	6509	02	24.7	12	SF	C 4.6	3	E		22		
0007	PALE	01	1946	1946	1957	S12	W62	6508	02	25.2	11	SF	C 1.8	3	E		16		F
0008	PALE	01	2056	2057	2059	S15	W61	6508	02	25.3	3	SF	C 5.0	3	E		28		
0009		01	2310*	23201	2330	S20	W72	6509	02	24.5	20	SF	C 4.0				83		DFHIJT
	VORO	01	2310	2320	2329	S17	W80	6509	02	24.0	19	1F			C	2320	116		DHIJT
	PALE	01	2319E		2325D	S23	W70	6509	02	24.7	6D	SF		3	E		34		F
	LEAR	01	2321	2321	2331	S21	W66	6509	02	25.0	10	SF	C 4.0	3	E		99		
0010		01	2343	2343	2401	S09	W32	6516	02	27.7	18	SF	C 6.3				19		F
	PALE	01	2343		2351D	S10	W32	6516	02	27.7	8D	SF	C 6.3	3	E		13		F
	LEAR	01	2343	2343	2401	S08	W31	6516	02	27.8	18	SF		3	E		25		F
0011		02	0027	0028	0032	N18	W56	6514	02	25.8	5	SF					25	0.7	DIJ
	VORO	02	0027	0028	0032	N18	W56	6514	02	25.8	5	SF			C	0028	36	0.7	DIJ
	LEAR	02	0027	0028	0032	N17	W56	6514	02	25.9	5	SF		3	E		14		
0012		02	01271	01281	0138	S17	W76	6509	02	24.4	11	1F	C 7.5				117		DEFIJT
	LEAR	02	0127	0128	0136	S17	W74	6509	02	24.5	9	1N	C 7.5	3	E		141		FE
	WATU	02	0127	0129	0140	S17	W77	6509	02	24.3	13	1F			C	0129	40		
	VORO	02	0128	0129	0141	S17	W80	6509	02	24.1	13	2F			C	0131	215		EIJT
	PEKG	02	0130E	0130U	0130D	S17	W75	6509	02	24.5	13D	1N			P	0130	105		D
	PALE	02	0132E		0135	S17	W75	6509	02	24.5	3D	SF		3	E		85		
0013		02	01284	01284	0140	S14	W64	6508	02	25.3	12	SN					50		EF
	LEAR	02	0128	0128	0141	S14	W65	6508	02	25.2	13	SN		3	E		64		FE
	PALE	02	0132	0132	0140	S15	W64	6508	02	25.3	8	SF		3	E		37		F
0014	LEAR	02	0219	0220	0236	S09	W33	6516	02	27.7	17	SF		3	E		22		FZ
0015	VORO	02	0242	0244	0252	S20	W49	6526	02	26.5	10	SF			C	0244	45	0.8	DIJ
0016		02	0453*	05141	0532	S17	W78	6509	02	24.4	39	1N	C 2.7				170		F
	LEAR	02	0453	0514	0532	S17	W76	6509	02	24.5	39	1N	C 2.7	3	E		211		F
	WATU	02	0512	0515	0531	S17	W80	6509	02	24.2	19	1F			C	0515	130		
0017	LEAR	02	0523	0527	0543	N17	W55	6514	02	26.1	20	SF		3	E		27		F
0018	LEAR	02	0703	0705	0729	S20	W72	6509	02	24.9	26	SF	C 7.1	3	E		31		F
0019		02	0704	0705	0734	S15	W72	6508	02	24.9	30	SN					92		EF
	LEAR	02	0704	0705	0734	S16	W73	6508	02	24.8	30	SF		3	E		58		F
	YUNN	02	0727E	0727U	0752D	S14	W72	6508	02	25.0	25D	SN			P	0727	126		E
0020	KANZ	02	1049	1052	1100	N12	E79	6530	03	8.4	11	SN			V				
0021		02	1554	15541	1615	S18	W76	6509	02	25.0	21	SF					28		F
	HOLL	02	1554	1554	1631D	S19	W77	6509	02	24.9	37D	SF		3	E		43		F
	RAMY	02	1554	1555	1615	S18	W76	6509	02	25.0	21	SF		3	E		14		F

Hα SOLAR FLARES

MARCH 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
0022	HOLL	02	1554	1558	1602	S14	W75	6508	02	25.1	8	SF		3	E		18		F
0023	RAMY	02	1627	1631	1636	N19	W60	6514	02	26.2	9	SF		3	E		10		F
0024	HOLL	02	1849	1852	1855	S13	W74	6508	02	25.3	6	SF		3	E		13		F
0025	PALE	02	2018	2018	2024	N03	W14	6523	03	1.8	6	SF		3	E		17		F
		02	2139		2152	No Flare Patrol													
		02	2204		2209	No Flare Patrol													
0026		02	2212*	2255	2257	N03	W15	6523	03	1.8	45	1F					64		F
	HOLL	02	2212	2255	2405D	N03	W15	6523	03	1.8	113D	1F		2	E		102		F
	PALE	02	2254		2257	N03	W15	6523	03	1.8	3	SF		3	E		25		F
0027	YUNN	03	0223E	0223U	0225D	N19	E79	6539	03	9.1	2D				P	0223			A
0028	RAMY	03	1318	1320	1324	S19	W90	6509	02	24.8	6	SF	M 2.9	3	E		24		
0029		03	1409	1411	1418	S22	W89	6509	02	24.8	9	SF					22		F
	HOLL	03	1409E	1410U	1419	S23	W90	6509	02	24.7	10D	SF		2	E		27		
	RAMY	03	1409	1411	1418	S21	W88	6509	02	24.9	9	SF		3	E		18		F
0030		03	15464	15524	1615	N11	E61	6530	03	8.2	29	1N	C 5.0				126		EFH
	HOLL	03	1546	1552	1628	N11	E61	6530	03	8.2	42	1N	C 5.0	3	E		193		EH
	RAMY	03	1550	1556	1602	N11	E61	6530	03	8.2	12	SF		3	E		59		F
0031	HOLL	03	1727E	1727U	1733	N17	E90	6536	03	10.6	6D	2F		2	E		256		
0032	HOLL	03	2351	2352	2359	S08	W60	6516	02	27.6	8	SF		3	E		23		
0033	HOLL	03	2352E	2357	2436D	S03	W41	6525A	02	28.9	44D	SF		3	E		16		
0034	PALE	04	0340	0341	0346	N07	W28	6529	03	2.0	6	SF		3	E		14		F
0035		04	15461	15521	1616D	N18	E70	6539	03	10.0	30D	2F	M 2.7				181		EF
	KANZ	04	1546	1553	1607D	N19	E70	6539	03	10.0	21D	2F			V				E
	SVTO	04	1547	1552	1616D	N17	E70	6539	03	10.0	29D	1F		1	E		102		F
	HOLL	04	1556E	1556U	1557D	N19	E70	6539	03	10.0	1D	2F	M 2.7	3	E		260		FE
0036		04	17433	17492	1843	N08	W36	6529	03	2.0	60	1N	M 1.3				102		F
	HOLL	04	1743	1749	1851	N07	W36	6529	03	2.0	68	1N	M 1.3	3	E		122		F
	PALE	04	1746	1751	1835	N08	W35	6529	03	2.1	49	SF		3	E		81		F
0037		04	2134*	2154	2205	N20	E60	6532A	03	9.5	31	SF					30		
	HOLL	04	2134	2154	2208	N20	E59	6532A	03	9.4	34	SF		3	E		32		
	PALE	04	2151	2154	2202	N19	E60	6532A	03	9.5	11	SF		3	E		28		
0038		04	2213	2223*	2250	S22	W67	6533	02	27.9	37	SF					64		FK
	HOLL	04	2213	2223	2250	S22	W67	6533	02	27.9	37	SF			E		48		K
	HOLL	04	2213	2236	2250	S22	W67	6533	02	27.9	37	SF		3	E		80		F
0039		05	0003*	0006*	0017	S21	E90	6538	03	11.9	14	2N					241		
	PALE	05	0003	0006	0012	S21	E88	6538	03	11.7	9	2N		3	E		328		
	HOLL	05	0003	0006	0015	S19	E88	6538	03	11.7	12	2B		3	E		372		
	HOLL	05	0017	0020	0025	S23	E93	6538	03	12.2	8	SF		3	E		23		
0040		05	01165	01241	0141	S10	E77	6537	03	10.8	25	SF					20		
	LEAR	05	0116	0125	0153	S11	E76	6537	03	10.8	37	SF		3	E		28		
	PALE	05	0121	0124	0129	S10	E78	6537	03	10.9	8	SF		3	E		13		
0041		05	02552	03048	0322	S21	E88	6538	03	11.9	27	2N	X 1.5				365		EHK
	MITK	05	0255	0311	0315	S20	E90	6538	03	12.0	20	1B			C	0311	220		H
	LEAR	05	0256	0308	0325	S23	E88	6538	03	11.9	29	3N			E		324		K
	LEAR	05	0256	0312	0325	S23	E88	6538	03	11.9	29	3N	X 1.5	3	E		711		E
	PALE	05	0257	0304	0335D	S19	E86	6538	03	11.7	38D	SF			E		50		K
	PALE	05	0257	0312	0335D	S19	E86	6538	03	11.7	38D	2F		3	E		518		
0042	SVTO	05	0620	0620	0629	S23	W75	6533	02	27.6	9	SF		3	E		15		

Hα S O L A R F L A R E S

MARCH 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
0043		05	07472	07501	0809	N18	E76	6536	03	11.1	22	SF					70		U
	TACH	05	0747	0751	0803	N20	E80	6536	03	11.4	16	1N		1	C	0751	112		U
	LEAR	05	0749	0750	0809	N17	E73	6536	03	10.9	20	SF		3	E		48		
	SVTO	05	0749	0751	0814	N18	E75	6536	03	11.0	25	SF		3	E		51		
0044	SVTO	05	0812	0819	0822	S20	E90	6538	03	12.2	10	SF	C 8.6	3	E		12		
0045	ATHN	05	0909E	0914	0925D	S04	E80	6537	03	11.4	16D	2N		2	V	0914	191	9.9	
0046		05	09046	0911*	0940	S20	E90	6538	03	12.3	36	2B	X 2.0				346		HKVX
	KHAR	05	0904	0911	0938	S20	E88	6538	03	12.1	34	2B		2	P	0913	500		HVX
	LEAR	05	0910	0911	0934	S23	E84	6538	03	11.8	24	1B		3	E		160		
	SVTO	05	0910	0916	0945	S19	E93	6538	03	12.5	35	3B	X 2.0	3	E		682		H
	SVTO	05	0910	0937	0945	S19	E93	6538	03	12.5	35	SB			E		42		K
0047		05	0936*	0958	1018	S08	E76	6537	03	11.1	42	SF					41		D
	LEAR	05	0936	0958	1026	S10	E72	6537	03	10.8	50	SF		3	E		41		
	KHAR	05	0947		1010	S06	E79	6537	03	11.3	23	SF		2	V				D
0048		05	14152	14161	1424	S22	W79	6533	02	27.6	9	SF					13		
	SVTO	05	1415	1416	1423	S22	W83	6533	02	27.3	8	SF		3	E		13		
	KANZ	05	1417	1417	1424	S22	W75	6533	02	27.9	7	SF			C				
0049	SVTO	05	1507	1509	1524	S22	W86	6533	02	27.1	17	SF		3	E		59		
0050	HOLL	05	1639	1641	1702D	S21	E89	6538	03	12.5	23D	SF		2	E		25		
0051		05	1716	1718U	1745	S10	E70	6537	03	11.0	29	2N	X 1.4				354		FU
	RAMY	05	1716	1718U	1718D	S08	E70	6537	03	11.0	2D	1N	X 1.4	3	E		224		F
	RAMY	05	1716	1718U	1742	S12	E70	6537	03	11.0	26	2N		3	E		326		F
	HOLL	05	1716	1718U	1748	S09	E69	6537	03	10.9	32	2B		2	E		513		U
0052	RAMY	05	2111	2113	2115	N19	E53	6539	03	9.9	4	SF		3	E		22		
0053		05	2135	2138	2211	N07	W53	6529	03	1.9	36	SF	C 5.4				30		F
	HOLL	05	2135	2138	2211	N06	W54	6529	03	1.8	36	SF	C 5.4	3	E		39		F
	PALE	05	2136E	2138U	2159D	N08	W52	6529	03	2.0	23D	SF		3	E		20		
0054	LEAR	05	2326	2326	2345	S23	E79	6538	03	12.1	19	SF	M 6.2	3	E		45		F
		05	2339		2344	No Flare Patrol													
0055		06	02051	02061	0224	S20	E77	6538	03	12.0	19	SF	C 7.1				41		F
	LEAR	06	0205	0206	0224	S19	E74	6538	03	11.7	19	SF	C 7.1	3	E		46		F
	PALE	06	0206	0207	0223	S22	E80	6538	03	12.2	17	SF		3	E		36		F
0056		06	02531	02552	0308	N25	E74	6540A	03	11.8	15	1F	C 9.9				120		
	WATU	06	0253	0255	0308	N26	E79	6540A	03	12.2	15	1N			C	0255	180		
	LEAR	06	0253	0257	0313	N27	E68	6540A	03	11.4	20	1F	C 9.9	3	E		102		
	PALE	06	0254	0257	0304	N23	E74	6540A	03	11.8	10	SF		3	E		77		
0057	LEAR	06	0520	0527	0549	S19	E72	6538	03	11.7	29	1F	C 8.7	3	E		100		
0058		06	07401	0743	0803	S22	E81	6538	03	12.5	23	1B	M 1.3				68		DF
	LEAR	06	0740	0743	0806	S22	E77	6538	03	12.2	26	SB	M 1.3	3	E		68		F
	ISTA	06	0741	0743	0800	S21	E85	6538	03	12.8	19	1B			P				D
0059	ATHN	06	1042E	1042U	1050D	S24	E80	6538	03	12.6	8D	2B		2	V	1042	223	9.4	
0060	SVTO	06	1140	1140	1144	S06	E67	6537	03	11.5	4	SF		2	E		40		
0061	SVTO	06	1339	1339	1345	S08	E67	6537	03	11.6	6	SF		2	E		43		
0062		06	1502	15042	1520	N21	E65	6540A	03	11.6	18	SF	C 7.3				62		F
	RAMY	06	1502	1504	1518	N20	E64	6540A	03	11.5	16	SF	C 7.3	3	E		42		F
	SVTO	06	1502	1506U	1508D	N20	E67	6540A	03	11.7	6D	SF		2	E		83		F
	KANZ	06	1502	1506	1522	N22	E64	6540A	03	11.5	20	SF			C				
		06	1625		1704	No Flare Patrol													
		06	1713		1846	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	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0063		06	2033	2038	2050	S24	E69	6538	03	12.2	17	SF	C	2.8				35		F
	RAMY	06	2033	2038	2050	S24	E70	6538	03	12.3	17	SF	C	2.8	3	E		25		F
	HOLL	06	2037E	2038U	2050D	S24	E68	6538	03	12.1	13D	SF			1	E		45		F
0064		06	2139*	2142*	2314	S23	E68	6538	03	12.1	95	SF						23		FH
	PALE	06	2139	2142	2251D	S22	E69	6538	03	12.2	72D	SF			3	E		21		
	HOLL	06	2240	2242	2314	S24	E68	6538	03	12.2	34	SF			2	E		25		FH
0065	HOLL	06	2152	2153	2222	N14	E58	6536	03	11.3	30	SF			2	E		30		F
0066	HOLL	06	2155	2159	2213	S10	E52	6537	03	10.8	18	SF			2	E		82		F
0067	LEAR	06	2350	2354	2359	S27	E77	6542A	03	13.0	9	SF			3	E		23		
0068	VORO	07	0036	0037	0046	S23	E69	6538	03	12.3	10	SF				C	0037	36		DIJ
0069	LEAR	07	0142	0152	0222	S26	E76	6542A	03	13.0	40	SF	C	3.6	3	E		45		
0070		07	02142	02162	0247	S22	E68	6538	03	12.3	33	SF	C	3.7				60		DIJ
	LEAR	07	0214	0216	0259	S21	E67	6538	03	12.2	45	SF	C	3.7	3	E		58		
	VORO	07	0216	0218	0235	S23	E69	6538	03	12.4	19	SF				C	0218	63		DIJ
0071	LEAR	07	0333	0349	0358	N02	W69	6523	03	2.0	25	SF			3	E		21		
0072	LEAR	07	0339	0349	0404	S27	E75	6542A	03	13.0	25	SF	C	2.4	3	E		39		
0073	LEAR	07	0421	0422	0427	S24	E66	6538	03	12.3	6	SF			3	E		16		
0074	LEAR	07	0556	0556	0602	S27	E80	6542A	03	13.5	6	SF			3	E		27		
0075	LEAR	07	0602	0604	0612	S08	E51	6537	03	11.1	10	SF			3	E		39		F
0076		07	0611*	0616*	0906	S21	E66	6538	03	12.3	175	1N	X	5.5				259	10.9	EFHKM
	LEAR	07	0611	0616	0937	S20	E66	6538	03	12.3	206	1B				E		101		K
	LEAR	07	0611	0748	0937	S20	E66	6538	03	12.3	206	3B	X	5.5	3	E		641		MF
	YUNN	07	0628E	0630U	0652D	S22	E67	6538	03	12.4	24D	SB				P	0630	126		
	YUNN	07	0659E	0722U	0737D	S21	E67	6538	03	12.4	38D	SN				P	0722	157		H
	MITK	07	0702	0712	0715D	S21	E67	6538	03	12.4	13D	1N				C	0712	110		H
	WATU	07	0704	0749	0804	S20	E66	6538	03	12.3	60	2N				C	0749	460	10.9	
	ABST	07	0748	0752	0756D	S22	E67	6538	03	12.5	8D	2N				P	0752	218		E
0077	YUNN	07	0630E	0633U	0652D	N19	E17	6541	03	8.6	22D	SB				P	0633	24	0.3	
0078		07	0746	0929*	1029D	S28	E72	6542A	03	12.9	163D	1N						361		EFK
	LEAR	07	0746	1001	1029D	S30	E71	6542A	03	12.9	163D	2N			3	E		545		FE
	LEAR	07	0746	1008	1029D	S30	E71	6542A	03	12.9	163D	2N				E		348		K
	YUNN	07	0841E	0846U	0849D	S26	E75	6542A	03	13.2	8D	SB				P	0846	189		F
	KANZ	07	0922E	0929	1010D	S27	E70	6542A	03	12.8	48D	1N				V				
0079		07	09272	09295	0959	S10	E46	6537	03	10.8	32	1N	M	2.9				101		EF
	LEAR	07	0927	0929	0959	S10	E45	6537	03	10.8	32	1N	M	2.9	3	E		101		FE
	KANZ	07	0929	0934	0941D	S09	E46	6537	03	10.8	12D	SN				V				
0080	LEAR	07	0949	1004	1029D	S24	E62	6538	03	12.2	40D	1F			3	E		175		F
		07	1012		1049	No Flare Patrol														
0081	RAMY	07	1300	1315	1338	N18	E32	6539	03	10.0	38	SF			3	E		83		FH
0082	RAMY	07	1336	1339	1344	S25	E59	6538	03	12.1	8	SF	M	4.5	3	E		17		
0083	RAMY	07	1403	1404	1426	S22	E62	6538	03	12.3	23	SF	M	5.0	3	E		31		
0084	HOLL	07	1448	1516	1530	S10	E43	6537	03	10.8	42	SF			3	E		47		F
0085		07	1526	15261	1533	S24	E57	6538	03	12.0	7	SF						17		
	RAMY	07	1526	1526	1531	S25	E57	6538	03	12.0	5	SF			3	E		15		
	HOLL	07	1526	1527	1535	S24	E57	6538	03	12.0	9	SF			3	E		19		

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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
0086		07	1638	16408	1655	S25	E57	6538	03	12.1	17	SF					28		FK
	RAMY	07	1638	1640	1655	S25	E57	6538	03	12.1	17	SF			E		19		K
	RAMY	07	1638	1648	1655	S25	E57	6538	03	12.1	17	SF		3	E		38		F
0087	RAMY	07	1716	1719	1736	S11	E40	6537	03	10.7	20	1B	M 2.9	3	E		149		FU
0088	RAMY	07	1732	1732	1745	S25	E55	6538	03	12.0	13	SF		3	E		30		
0089	HOLL	07	1839	1846	1855	S25	E57	6538	03	12.2	16	SF		3	E		36		F
0090		07	1858	1902*	1955	N19	E49	6536	03	11.5	57	SN					64		FK
	HOLL	07	1858	1902	1955	N19	E49	6536	03	11.5	57	SB			E		55		K
	HOLL	07	1858	1916	1955	N19	E49	6536	03	11.5	57	SF		3	E		73		F
0091		07	19223	19284	1936	S26	E62	6538	03	12.6	14	SF					33		F
	HOLL	07	1922	1928	1937	S27	E62	6538	03	12.6	15	SF		3	E		34		F
	RAMY	07	1925	1932	1934	S25	E62	6538	03	12.6	9	SF		3	E		32		F
0092	HOLL	07	2011	2020	2027	S24	E62	6538	03	12.6	16	SF	C 6.2	3	E		26		F
0093		07	2039	20432	2052	S26	E58	6538	03	12.4	13	SN	M 1.5				47		
	HOLL	07	2039	2043	2051	S24	E56	6538	03	12.2	12	SN	M 1.5	3	E		51		
	RAMY	07	2044E	2045	2052	S27	E61	6538	03	12.6	8D	SF		3	E		43		
0094	HOLL	07	2202	2209	2220	N12	E26	6532	03	9.9	18	SF		3	E		31		
0095	HOLL	07	2208	2226	2248	S24	E61	6538	03	12.6	40	SN	C 7.5	3	E		73		F
0096		07	23076	23182	2328	S24	E53	6538	03	12.0	21	1B	X 2.5				205		HM
	HOLL	07	2307	2320	2328	S24	E53	6538	03	12.0	21	1B		3	E		127		MH
	PALE	07	2313	2318	2329	S24	E52	6538	03	12.0	16	1B		3	E		216		
	LEAR	07	2314E	2319	2329D	S24	E53	6538	03	12.1	15D	2B	X 2.5	3	E		273		
0097	PALE	07	2354	2403	2414	S22	E56	6538	03	12.3	20	SF		3	E		58		F
0098	LEAR	08	0028	0032	0059	S23	E55	6538	03	12.2	31	SF		3	E		61		
0099	LEAR	08	0108	0133	0139	S23	E54	6538	03	12.2	31	SF		3	E		19		F
0100		08	0141*	02311	0251	S22	E56	6538	03	12.4	70	1N	M 1.0				133	1.3	FHY
	LEAR	08	0141	0232	0308	S24	E54	6538	03	12.2	87	1B	M 1.0	3	E		189		FH
	PALE	08	0227	0231U	0248D	S22	E57	6538	03	12.5	21D	1N		2	E		140		Y
	WATU	08	0228	0231	0234	S19	E56	6538	03	12.4	6	SF			C	0231	70	1.3	
0101	LEAR	08	0239	0240	0251	N12	E10	6543	03	8.9	12	SF		3	E		11		
0102		08	0308	0322*	0403	S22	E54	6538	03	12.3	55	SN	C 3.6				76	2.3	FK
	LEAR	08	0308	0322	0404	S22	E53	6538	03	12.2	56	SF			E		47		K
	LEAR	08	0308	0344	0404	S22	E53	6538	03	12.2	56	SF	C 3.6	3	E		55		F
	YUNN	08	0322E	0339U	0400	S21	E56	6538	03	12.4	38D	1B			P	0339	126	2.3	
0103		08	0418	0422	0435	S08	E40	6537	03	11.2	17	SN					80	1.4	F
	YUNN	08	0415E	0422U	0451D	S07	E39	6537	03	11.1	36D	SB			P	0422	110	1.4	
	LEAR	08	0418	0422	0435	S08	E40	6537	03	11.2	17	SF		3	E		50		F
0104	LEAR	08	0551	0630	0644	S09	E42	6537	03	11.4	53	SF		3	E		40		F
0105		08	0915	0822	0949	S06	E36	6537	03	11.1	34	SF					39		DF
	LEAR	08	0822E	0822	1003	S08	E37	6537	03	11.1	101D	SF		3	E		39		F
	KHAR	08	0915		0935	S05	E36	6537	03	11.1	20	SF		1	V				D
0106	LEAR	08	0841	0843	0901	S10	E66	6542	03	13.3	20	SF		3	E		56		
		08	1051		1101	No Flare Patrol													
0107		08	11339	1134*	1219	S26	E49	6538	03	12.3	46	SB	M 1.5				102	3.2	K
	RAMY	08	1133	1134	1219	S26	E49	6538	03	12.3	46	SB			E		34		K
	RAMY	08	1133	1145	1219	S26	E49	6538	03	12.3	46	SB	M 1.5	3	E		81		
	ATHN	08	1142	1145	1157D	S25	E50	6538	03	12.4	15D	1B		2	V	1145	191	3.2	

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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
0108	RAMY	08	1330	1336	1345	S24	E47	6538	03	12.2	15	SF		3	E		29		
0109	RAMY	08	1334	1334	1348	N13	E18	6532	03	9.9	14	SF		3	E		25		
0110	RAMY	08	1509	1517	1543	S23	E47	6538	03	12.2	34	SN	C 5.5	3	E		68		H
0111		08	16126	16193	1641	S22	E49	6538	03	12.4	29	1B	M 1.2				110		FHK
	HOLL	08	1612	1619	1641	S22	E50	6538	03	12.5	29	1B			E		151		K
	HOLL	08	1612	1622	1641	S22	E50	6538	03	12.5	29	1B	M 1.2	3	E		137		FH
	RAMY	08	1618	1620	1640	S23	E46	6538	03	12.2	22	SN		3	E		42		F
0112	RAMY	08	1922E	1929	1937	S23	E44	6538	03	12.2	15D	SF	C 7.5	3	E		27		F
0113		08	20191	2021*	2122	S25	E47	6538	03	12.5	63	1B	X 1.7				196		FKY
	HOLL	08	2019	2021	2122	S25	E49	6538	03	12.6	63	1B			E		75		K
	HOLL	08	2019	2033	2122	S25	E49	6538	03	12.6	63	1B		3	E		182		YF
	RAMY	08	2020	2029	2033D	S24	E43	6538	03	12.2	13D	2B	X 1.7	3	E		332		F
0114	HOLL	08	2311	2311	2317	S12	E58	6542	03	13.3	6	SF		3	E		13		
		09	0102		0131	No Flare Patrol													
0115	PALE	09	0203E	0205	0235	N19	E14	6539B	03	10.1	32D	SF		3	E		48		F
0116	LEAR	09	0214		0317	S27	E49	6538	03	12.9	63	SF		3	E		36		F
		09	0227		0235	No Flare Patrol													
0117	PALE	09	0307E	0307U	0317	S09	E24	6537	03	10.9	10D	SF		3	E		25		FH
0118		09	0332	0340	0410	N16	E38	6540	03	12.0	38	SN					26	0.4	EF
	YUNN	09	0330E	0335U	0404D	N16	E38	6540	03	12.0	34D	SN			P	0335	31	0.4	E
	LEAR	09	0332	0340	0410	N15	E37	6540	03	11.9	38	SF		3	E		20		F
0119	LEAR	09	0417	0417	0421	S27	E45	6538	03	12.7	4	SF		3	E		24		F
0120	LEAR	09	0433	0436	0503	N17	E11	6539	03	10.0	30	SF		3	E		47		
0121	LEAR	09	0609	0646	0740D	S16	E39	6538	03	12.2	91D	2F	M 1.4	3	E		343		F
0122	YUNN	09	0745E	0745U	0906	S15	E34	6540B	03	11.9	81D	3N			P	0745	1022	12.7	U
		09	0833		0836	No Flare Patrol													
0123	KHAR	09	1016	1019	1029	S21	E50	6538	03	13.3	13	SF		2	P	1020	110	1.8	D
0124	KHAR	09	1048	1050	1105	S13	E04	6539D	03	9.7	17	SF		2	V				DH
0125		09	1243	1245	1251	S25	E48	6538	03	13.2	8	SN	M 1.3				85	1.9	F
	HTPR	09	1243		1246	S25	E50	6538	03	13.4	3	SN			C	1246	120	1.9	
	RAMY	09	1243	1245	1256	S25	E46	6538	03	13.1	13	SF	M 1.3	3	E		50		F
0126		09	14112	1413*	1440	S22	E34	6538	03	12.2	29	1B	M 1.4				90		FHK
	RAMY	09	1411	1413	1432	S23	E34	6538	03	12.2	21	SN	M 1.4	3	E		76		FH
	HOLL	09	1413	1413	1444	S22	E34	6538	03	12.2	31	1B		3	E		101		FH
	HOLL	09	1413	1424	1444	S22	E34	6538	03	12.2	31	1B			E		94		K
0127	HOLL	09	1614	1615	1657	S13	E48	6542	03	13.3	43	SF		3	E		19		F
0128	HOLL	09	1619	1626	1628	S10	E14	6539D	03	10.7	9	SF		3	E		18		F
0129		09	18558	1905	1956	N16	E23	6536	03	11.5	61	1N	C 4.0				94		FH
	RAMY	09	1855	1905	2019	N17	E24	6536	03	11.6	84	SF		3	E		72		
	HOLL	09	1903	1903U	1933	N16	E22	6536	03	11.5	30	1N	C 4.0	3	E		117		FH
0130		09	1934	19363	1959	S23	E31	6538	03	12.2	25	SN					22		K
	HOLL	09	1934	1936	1959	S23	E31	6538	03	12.2	25	SB			E		25		K
	HOLL	09	1934	1939	1959	S23	E31	6538	03	12.2	25	SF		3	E		19		
		09	2009		2019	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	Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		09	2021		2135	No Flare Patrol														
0131		09	2137E	2142*	2207	S24	E32	6538	03	12.4	30D	1B	M	1.4				114		EFK
	PALE	09	2137E	2142U	2208D	S26	E36	6538	03	12.7	31D	SN	M	1.4	3	E		80		FE
	HOLL	09	2140E	2142	2207	S23	E30	6538	03	12.2	27D	1B			2	E		161		F
	HOLL	09	2140E	2152	2207	S23	E30	6538	03	12.2	27D	1B				E		101		K
		09	2228		2237	No Flare Patrol														
		09	2247		2248	No Flare Patrol														
		09	2340		2347	No Flare Patrol														
0132	LEAR	10	0027	0032	0039	S23	E34	6538	03	12.6	12	SF			3	E		17		
0133	VORO	10	0116	0117	0122	S23	E42	6538	03	13.3	6	SF				C	0117	45	0.6	DIJ
0134		10	0124	0136	0204	N14	E14	6536	03	11.1	40	1N	C	3.4				186	2.7	F
	LEAR	10	0124	0136	0209	N14	E14	6536	03	11.1	45	1F	C	3.4	3	E		137		F
	YUNN	10	0142E	0144U	0159	N15	E14	6536	03	11.1	17D	1N				P	0144	236	2.7	F
0135	LEAR	10	0209	0223	0246	S22	E28	6538	03	12.2	37	1F	C	3.6	3	E		123		F
0136	YUNN	10	0250E	0308U	0340	S25	E48	6538	03	13.8	50D	SN				P	0308	24	0.4	D
0137		10	03061	0313	0330	S10	E08	6539D	03	10.7	24	SN						23	0.2	D
	YUNN	10	0306	0307U	0337	S09	E08	6539D	03	10.7	31	SN				P	0307	16	0.2	D
	WATU	10	0307	0313	0323	S10	E07	6539D	03	10.6	16	SF				C	0313	30	0.3	
		10	0526		0531	No Flare Patrol														
0138	YUNN	10	0644E	0648U	0648D	S22	E32	6538	03	12.7	4D	SN				P	0648	63	0.8	E
		10	0731		0747	No Flare Patrol														
0139	HTPR	10	0949	0953	1000	S08	E80	6545	03	16.4	11	SF				C	0953	20		
0140	HTPR	10	1100	1103	1120	S22	E22	6538	03	12.1	20	SF				C	1103	90	1.0	
0141		10	1158*	1159*	1216	S24	E30	6538	03	12.8	18	SF						50	0.8	D
	HTPR	10	1158	1159	1210	S25	E28	6538	03	12.7	12	SF				C	1159	60	0.7	D
	HTPR	10	1210	1300	1409D	S22	E33	6538	03	13.0	119D	SF				C	1300	70	1.0	
	RAMY	10	1214	1215	1221	S24	E30	6538	03	12.8	7	SF			3	E		20		
0142	RAMY	10	1303	1317	1325	S26	E28	6538	03	12.7	22	SF	C	3.0	3	E		21		F
0143		10	1509*	1511*	1559	S24	E27	6538	03	12.7	50	SF	C	5.8				35		EF
	HOLL	10	1509	1511	1544D	S24	E26	6538	03	12.6	35D	SF	C	5.8	3	E		40		FE
	RAMY	10	1524	1535	1559	S25	E28	6538	03	12.8	35	SF			3	E		30		F
0144		10	15281	15311	1536	N18	W28	6541	03	8.5	8	SF						54		FH
	HOLL	10	1528	1531	1544D	N19	W28	6541	03	8.5	16D	SF			3	E		81		F
	RAMY	10	1529	1532	1536	N18	W28	6541	03	8.5	7	SF			3	E		26		FH
0145		10	1759	1803*	1824	N13	E02	6536	03	10.9	25	SF						48		FHKU
	RAMY	10	1759	1803	1824	N13	E02	6536	03	10.9	25	SN				E		48		K
	RAMY	10	1759	1817	1824	N13	E02	6536	03	10.9	25	SF			3	E		41		FH
	HOLL	10	1806E	1806U	1830D	N13	E02	6536	03	10.9	24D	SF			2	E		54		UH
0146		10	1806	1812U	1831D	S22	E19	6538	03	12.2	25D	1B	C	9.9				81		EF
	PALE	10	1806	1812U	1815D	S22	E19	6538	03	12.2	9D	1B			2	E		109		F
	HOLL	10	1807E	1817U	1831D	S23	E19	6538	03	12.2	24D	SN	C	9.9	2	E		53		FE
0147	PALE	10	2006	2007	2011	S22	E14	6538	03	11.9	5	SF			2	E		12		F
0148		10	2222E	2246U	2307D	S10	E00	6539D	03	10.9	45D	SF						28		F
	HOLL	10	2222E	2247U	2307D	S10	W04	6539D	03	10.6	45D	SF			1	E		27		F
	LEAR	10	2246E	2246U	2253D	S10	E05	6539D	03	11.3	7D	SF			2	E		29		

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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
0149		10	2240	2240	2256	S24	E19	6538	03	12.4	16	SF	C 5.1				44		F
	HOLL	10	2222E	2246U	2307D	S23	E16	6538	03	12.2	45D	SN		1	E		40		F
	PALE	10	2240	2240	2256	S23	E17	6538	03	12.2	16	SF	C 5.1	3	E		57		
	LEAR	10	2246E	2246U	2253D	S25	E23	6538	03	12.7	7D	SF		2	E		34		F
0150		11	00341	00361	0112	S25	E28	6538	03	13.2	38	SN	C 3.0				38		F
	LEAR	11	0034	0037	0145	S25	E27	6538	03	13.1	71	SN		3	E		50		F
	PALE	11	0035	0036	0040	S25	E29	6538	03	13.3	5	SF	C 3.0	3	E		26		
0151		11	02411	02451	0257	S11	W06	6539D	03	10.7	16	SF					56	0.9	EFIJ
	VORO	11	0241	0246	0258	S11	W05	6539D	03	10.7	17	SF			C	0246	90	0.9	EIJ
	LEAR	11	0242	0245	0256	S11	W08	6539D	03	10.5	14	SF		3	E		23		F
0152		11	0405	04062	0417	S09	W04	6537	03	10.9	12	SN	C 1.8				64	0.9	D
	LEAR	11	0405	0406	0419	S08	W01	6537	03	11.1	14	SF	C 1.8	3	E		44		
	PEKG	11	0405	0408	0415	S10	W06	6537	03	10.7	10	SN			P	0408	84	0.9	D
0153	LEAR	11	0428	0435	0448	S25	E20	6538	03	12.7	20	SF	C 1.8	3	E		32		F
0154		11	07304	07341	0744	S22	E11	6538	03	12.1	14	1B	M 3.6				173	1.6	EFHI
	WATU	11	0730	0734	0742	S22	E12	6538	03	12.2	12	1B			C	0734	200	2.2	FI
	ABST	11	0733	0735	0742	S22	E11	6538	03	12.1	9	SN			C	0735	87	0.9	E
	LEAR	11	0734	0734	0748	S23	E11	6538	03	12.2	14	1B	M 3.6	3	E		233		H
0155		11	07541	07564	0810	S23	E14	6538	03	12.4	16	SF					54	0.3	DF
	LEAR	11	0754	0756	0814	S25	E18	6538	03	12.7	20	SF		3	E		76		F
	URUM	11	0755	0800	0806	S21	E11	6538	03	12.2	11	SF			C		32	0.3	D
0156	LEAR	11	0842	0847	0858	S08	W04	6537	03	11.1	16	SN	C 5.3	3	E		77		E
0157	LEAR	11	0904	0910	0922	S25	E18	6538	03	12.8	18	SF	C 5.5	3	E		71		F
		11	0941		0947	No Flare Patrol													
0158	SVTO	11	1039	1044U	1059D	S09	E73	6545	03	16.9	20D	SF	C 4.2	1	E		34		FH
		11	1100		1312	No Flare Patrol													
		11	1338		1353	No Flare Patrol													
		11	1413		1434	No Flare Patrol													
		11	1558		1659	No Flare Patrol													
		11	1727		1749	No Flare Patrol													
		11	1802		1804	No Flare Patrol													
		11	1816		1835	No Flare Patrol													
		11	1848		1933	No Flare Patrol													
0159	PALE	11	1859E	1902U	1908D	S24	E15	6538	03	12.9	9D	SF	C 3.9	3	E		16		
0160	PALE	11	1954E	1958U	2002D	S09	E63	6545	03	16.5	8D	SF	C 2.5	3	E		13		
0161	PALE	11	2034	2045U	2112	S28	E13	6538	03	12.9	38	SF	C 2.6	3	E		14		F
0162		11	2215	2216	2306D	S08	W11	6537	03	11.1	51D	1N	C 8.0				110		F
	HOLL	11	2215	2216	2230D	S09	W09	6537	03	11.2	15D	1B		1	E		188		F
	PALE	11	2215	2220U	2306D	S07	W13	6537	03	10.9	51D	SF	C 8.0	3	E		32		
0163	WATU	12	0043	0052	0115	S06	W15	6537	03	10.9	32	SF			C	0052	40	0.4	I
0164		12	01302	01311	0140	S23	E02	6538	03	12.2	10	SF	C 5.6				23	0.2	I
	WATU	12	0130	0131	0140	S22	E02	6538	03	12.2	10	SF			C	0131	20	0.2	I
	PALE	12	0132	0132	0139D	S24	E02	6538	03	12.2	7D	SF	C 5.6	3	E		26		
0165		12	02542	02563	0300	S23	W04	6538	03	11.8	6	SF					41	0.4	EI
	WATU	12	0254	0256	0300	S22	W04	6538	03	11.8	6	SF			C	0256	50	0.5	I
	URUM	12	0256	0259	0300D	S24	W05	6538	03	11.7	4D	SF			C		32	0.3	E
0166	YUNN	12	0325	0344	0500	N34	W05		03	11.7	95	SF			P		31	0.4	EG

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0167		12	0410*	0421*	0438	S07	W16	6537	03	11.0	28	SN						93	1.0	EFI
	YUNN	12	0410	0437	0449	S07	W17	6537	03	10.9	39	SN				C		157	1.7	E
	WATU	12	0419	0421	0433	S07	W17	6537	03	10.9	14	SF				C	0421	90	1.0	FI
	URUM	12	0421	0425	0432	S06	W15	6537	03	11.0	11	SN				C		32	0.3	E
0168	YUNN	12	0437E	0449	0520	S21	E06	6538	03	12.6	43D	SB				P		157	1.7	F
0169	YUNN	12	0525E	0533U	0545	N22	W09	6540A	03	11.5	20D	SN				P	0533	47	0.6	E
0170	YUNN	12	0617E	0617U	0622	S08	W13	6537	03	11.3	5D	SN				P	0617	47	0.5	E
0171	YUNN	12	0624E	0627U	0637	S24	E17	6538	03	13.6	13D	SN				P	0627	16	0.2	
0172	SVTO	12	0908	0909	0920	S21	E05	6538	03	12.8	12	SF			3	E		13		
0173		12	0940	09409	1008	N12	W24	6536	03	10.6	28	SF	C	3.0				42	0.7	
	HTPR	12	0940	0940	1010	N13	W23	6536	03	10.7	30	SF				C	0940	60	0.7	
	SVTO	12	0940	0949	1006	N11	W24	6536	03	10.6	26	SF	C	3.0	3	E		24		
0174	HTPR	12	1018	1020	1025	S07	W22	6537	03	10.8	7	SF				C	1020	80	0.8	
0175		12	11435	1150	1225D	S11	E60	6545	03	17.0	42D	SF	C	2.3				52		F
	RAMY	12	1143	1150	1225D	S13	E60	6545	03	17.0	42D	SF	C	2.3	3	E		71		F
	SVTO	12	1148	1149U	1214D	S09	E59	6545	03	16.9	26D	SF			3	E		32		
0176		12	1228	1250	1318	S08	E58	6545	03	16.9	50	1N	X	1.7				159	0.9	F
	SVTO	12	1228	1250	1316	S07	E59	6545	03	16.9	48	2B	X	1.7	3	E		268		F
	HTPR	12	1257E		1320	S10	E58	6545	03	16.9	23D	SF				C	1300	50	0.9	
0177		12	14424	14461	1522	S22	W06	6538	03	12.1	40	SF	C	2.5				38	0.5	F
	HTPR	12	1442	1447	1510	S22	W08	6538	03	12.0	28	SF				C	1447	50	0.5	
	RAMY	12	1446	1446	1533	S22	W04	6538	03	12.3	47	SF	C	2.5	3	E		25		F
0178	RAMY	12	1540	1604	1608	S24	E01	6538	03	12.7	28	SF	C	2.6	3	E		26		
0179		12	15583	1602	1617	S10	E58	6545	03	17.0	19	SF						40		F
	HOLL	12	1558	1602	1629	S11	E58	6545	03	17.0	31	SF			3	E		56		F
	RAMY	12	1601	1602	1605	S10	E57	6545	03	16.9	4	SF			3	E		24		
0180	HOLL	12	1632	1639	1723	S10	E58	6545	03	17.0	51	SF			3	E		43		
0181	HOLL	12	1637	1641	1646	S09	W25	6537	03	10.8	9	SF			3	E		11		F
0182	HOLL	12	1807	1850	1949	S11	W20	6537	03	11.2	102	SF			3	E		48		
0183		12	18199	18285	1853	S22	W12	6538	03	11.8	34	SN	C	3.2				30		F
	HOLL	12	1819	1833	1908	S22	W12	6538	03	11.8	49	SN	C	3.2	3	E		36		F
	RAMY	12	1828	1828	1838	S23	W12	6538	03	11.8	10	SF			3	E		25		
0184		12	20199	2020*	2040	S24	W03	6538	03	12.6	21	SF						26		F
	HOLL	12	2019	2020	2025	S25	W03	6538	03	12.6	6	SF			3	E		12		F
	HOLL	12	2028	2035	2055	S22	W03	6538	03	12.6	27	SF			3	E		39		
0185	HOLL	12	2037	2038	2056	S09	E56	6545	03	17.1	19	SF	C	2.3	3	E		20		
0186	HOLL	12	2216	2216	2227D	S22	W04	6538	03	12.6	11D	SF			3	E		10		
0187	HOLL	12	2227	2227	2236D	S08	E56	6545	03	17.1	9D	SF	C	3.7	3	E		26		F
0188	VORO	13	0002	0011	0027	S04	E51	6545	03	16.8	25	SF				C	0011	54	0.9	EIJ
0189	VORO	13	0032	0036	0044	S27	W07	6538	03	12.5	12	SF				C	0036	45	0.5	DIJT
0190		13	00482	01004	0121	S26	W07	6538	03	12.5	33	1N	C	5.7				132	1.6	EFHIJKNT
	LEAR	13	0048	0101	0124	S26	W08	6538	03	12.4	36	1N	C	5.7	3	E		102		E
	WATU	13	0049	0100	0118	S26	W07	6538	03	12.5	29	SF				C	0100	60	0.7	FHI
	VORO	13	0050	0104	0122	S25	W07	6538	03	12.5	32	1N				C	0104	233	2.6	ENIJTK
0191	VORO	13	0050	0054	0124	S34	E05		03	13.4	34	SF				C	0054	63	0.7	EHIJT

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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
0192		13	0151	0153	0203	S24	W12	6538	03	12.2	12	SN					68	0.8	DIJT
	VORO	13	0151	0153	0156	S24	W12	6538	03	12.2	5	SF			C	0153	90	1.0	DIJT
	YUNN	13	0152E	0153U	0210	S24	W11	6538	03	12.2	18D	SN			P	0153	47	0.5	
0193	VORO	13	0210	0215	0233	N13	W57		03	8.8	23	SF			C	0215	90	1.8	EIJ
0194		13	02284	02321	0240	S24	E04	6538	03	13.4	12	SN					84	1.0	DIJTV
	WATU	13	0228	0232	0241	S24	E04	6538	03	13.4	13	SN			C	0232	60	0.7	V
	VORO	13	0232	0233	0239	S25	E05	6538	03	13.5	7	SN			C	0233	108	1.2	DIJT
0195		13	02531	0258*	0331	S12	E48	6545	03	16.7	38	2B	C 2.3				330	4.7	EIJT
	WATU	13	0253	0303	0329	S12	E48	6545	03	16.7	36	1B			C	0303	310	4.8	
	VORO	13	0254	0258	0321	S11	E46	6545	03	16.6	27	1N			C	0304	251	3.7	EIJ
	YUNN	13	0301E	0303U	0331	S12	E48	6545	03	16.7	30D	2B			P	0303	362	5.5	
	LEAR	13	0310E	0310	0344	S11	E48	6545	03	16.7	34D	2B	C 2.3	3	E		397		T
0196	URUM	13	0415	0416	0420	S10	E35	6545	03	15.8	5	SF			C		32	0.4	D
0197		13	0730*	0732*	0836	S10	E45	6545	03	16.7	66	2B	X 1.3				299	4.0	FHTUZ
	WATU	13	0730	0732	0818	S12	E45	6545	03	16.7	48	1N			C	0732	210	3.2	
	HTPR	13	0730	0734	0757	S10	E45	6545	03	16.7	27	1N			C	0734	320	4.5	Z
	SVTO	13	0734E	0804	1014D	S11	E43	6545	03	16.5	160D	2B	X 1.3	2	E		400		U
	LEAR	13	0734	0813	0848	S08	E45	6545	03	16.7	74	2B		3	E		282		FHT
	YUNN	13	0759	0805	0840	S10	E45	6545	03	16.7	41	2B			C		377	5.4	
	HTPR	13	0802	0805	0840	S10	E45	6545	03	16.7	38	2B			C	0805	460	6.3	Z
	YUNN	13	0854E	0905U	0916	S10	E51	6545	03	17.2	22D	SN			P	0905	47	0.8	
0198	SVTO	13	1057	1100	1103	S08	E43	6545	03	16.7	6	SF		3	E		13		
0199		13	12127	1216	1219	S09	E47	6545	03	17.0	7	SF	C 5.9				26		F
	SVTO	13	1212	1216	1219	S09	E48	6545	03	17.1	7	SF		3	E		15		F
	SVTO	13	1219	1227U	1234D	S09	E46	6545	03	17.0	15D	SF	C 5.9	3	E		36		F
0200	KANZ	13	1255	1259	1303	S15	W23	6538A	03	11.8	8	SF			V				
0201		13	15443	1546*	1612	S11	E42	6545	03	16.8	28	2N	X 3.9				413	7.1	FUZ
	RAMY	13	1528E	1559	1616	S12	E41	6545	03	16.7	48D	2N	X 3.9	3	E		276		F
	HTPR	13	1544	1546	1610	S10	E45	6545	03	17.0	26	2B			C	1546	550	7.1	Z
	KANZ	13	1547	1551	1611	S12	E40	6545	03	16.7	24	2N			V				U
		13	1637		1647	No Flare Patrol													
		13	1649		1700	No Flare Patrol													
0202	PALE	13	1820E	1827U	1839	S11	E45	6545	03	17.1	19D	SF	C 3.7	2	E		29		F
0203		13	19462	1949	1954	S08	E40	6545	03	16.8	8	SF					14		
	RAMY	13	1946	1949	1954	S05	E39	6545	03	16.7	8	SF		3	E		14		
	PALE	13	1948	1949	1954	S10	E42	6545	03	17.0	6	SF		3	E		14		
0204		13	2042*	2043*	2107	S09	E42	6545	03	17.0	25	SF	C 3.4				28		F
	PALE	13	2042	2043	2054	S06	E46	6545	03	17.3	12	SF		3	E		38		F
	RAMY	13	2042	2044	2103	S10	E43	6545	03	17.1	21	SF	C 3.4	3	E		31		
	RAMY	13	2107	2110	2116	S10	E40	6545	03	16.9	9	SF		3	E		21		
	PALE	13	2109	2109	2115	S09	E41	6545	03	16.9	6	SF		3	E		23		
0205	PALE	13	2251	2251	2303	S09	E40	6545	03	16.9	12	SF		3	E		12		
0206		14	0138*	0153*	0215	S08	E34	6545	03	16.6	37	SN	C 2.6				46	1.0	E
	YUNN	14	0138	0153	0222	S08	E35	6545	03	16.7	44	SN			C		79	1.0	E
	PALE	14	0201	0204	0208	S09	E34	6545	03	16.6	7	SF	C 2.6	2	E		12		
0207	YUNN	14	0144	0146U	0153	N15	W44	6536	03	10.7	9	SN			P	0146	16	0.3	E
0208		14	0251	02512	0254	S08	E37	6545	03	16.9	3	SF	C 2.6				44	0.6	DI
	LEAR	14	0251	0251	0254	S09	E38	6545	03	17.0	3	SF	C 2.6	3	E		32		
	VORO	14	0251	0252	0255D	S07	E36	6545	03	16.8	4D	SF			C	0252	54	0.7	DI
	YUNN	14	0251	0253	0255	S07	E36	6545	03	16.8	4	SN			C		47	0.6	

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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	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0209		14	0412*	0416*	0425	S10	E36	6545	03	16.9	13	SN					53		
	LEAR	14	0412	0416	0420	S10	E35	6545	03	16.8	8	SF		3	E		48		
	LEAR	14	0425	0426	0430	S09	E37	6545	03	17.0	5	SN		3	E		58		
0210	LEAR	14	0520	0521	0528	S10	E35	6545	03	16.8	8	SF	C 3.1	3	E		40		
0211		14	0541*	0553*	0653	S07	E37	6545	03	17.0	72	1N					193	3.4	FY
	LEAR	14	0541	0632	0651	S08	E39	6545	03	17.2	70	SF		3	E		51		
	TACH	14	0552	0553	0604D	S06	E36	6545	03	16.9	12D	2N		1	C	0553	418	5.4	Y
	YUNN	14	0558E	0608	0655	S08	E37	6545	03	17.0	57D	SN			P		110	1.4	F
0212		14	07369	0737*	0803	S10	E33	6545	03	16.8	27	SF	C 3.3				76	1.3	
	LEAR	14	0736	0737	0752	S09	E35	6545	03	16.9	16	SF	C 3.3	3	E		43		
	KANZ	14	0737	0737	0810	S11	E31	6545	03	16.6	33	SF			V				
	YUNN	14	0745	0756	0808	S10	E32	6545	03	16.7	23	SN			C		110	1.3	
0213	LEAR	14	0827	0833	0903	S09	E35	6545	03	17.0	36	SF		3	E		63		
0214		14	10112	10143	1026	S25	W25	6538	03	12.5	15	SF					38	0.6	
	HTPR	14	1011	1014	1030	S25	W24	6538	03	12.6	19	SF			C	1014	50	0.6	
	SVTO	14	1012	1015	1024	S25	W25	6538	03	12.5	12	SF		3	E		26		
	KANZ	14	1013	1017	1025	S25	W26	6538	03	12.4	12	SF			V				
0215		14	10174	1021*	1045	S09	E31	6545	03	16.7	28	SF	C 4.7				34	0.7	
	KANZ	14	1017	1021	1045	S10	E30	6545	03	16.7	28	SF			V				
	HTPR	14	1019	1023	1045	S08	E32	6545	03	16.8	26	SN			C	1023	50	0.7	
	SVTO	14	1021	1031	1043D	S09	E30	6545	03	16.7	22D	SF	C 4.7	3	E		18		
0216	KANZ	14	1207E	1210	1220	S10	E28	6545	03	16.6	13D	SF			C				
0217		14	1316*	1323*	1341	S10	E30	6545	03	16.8	25	SF	C 5.2				34		FH
	RAMY	14	1316	1323	1325	S10	E33	6545	03	17.0	9	SF		3	E		31		
	RAMY	14	1328	1335	1345	S10	E29	6545	03	16.7	17	SF	C 5.2	3	E		44		H
	SVTO	14	1331	1334	1346	S09	E28	6545	03	16.7	15	SF		3	E		27		F
	KANZ	14	1331	1335	1349	S10	E28	6545	03	16.7	18	SF			V				
0218		14	1403*	1404*	1420	S08	E30	6545	03	16.8	17	SF	C 4.0				23		F
	RAMY	14	1403	1404	1413	S09	E31	6545	03	16.9	10	SF	C 4.0	3	E		30		F
	SVTO	14	1407	1407	1415	S09	E29	6545	03	16.8	8	SF		3	E		25		
	KANZ	14	1421	1421	1426	S05	E29	6545	03	16.8	5	SF			V				
	SVTO	14	1421	1421	1427	S08	E29	6545	03	16.8	6	SF		3	E		13		
0219		14	1454*	15063	1520	S09	E31	6545	03	16.9	26	SN	C 6.4				86	1.4	
	HOLL	14	1454	1509	1540D	S09	E31	6545	03	16.9	46D	1N	C 6.4	3	E		123		
	RAMY	14	1456	1511U	1525	S10	E31	6545	03	16.9	29	SN		3	E		79		
	SVTO	14	1506	1506	1516	S09	E28	6545	03	16.7	10	SF		3	E		21		
	HTPR	14	1506	1507	1520	S08	E35	6545	03	17.2	14	SF			C	1507	120	1.4	
	KANZ	14	1507	1507	1515D	S09	E29	6545	03	16.8	8D	SN			V				
0220	HOLL	14	1623	1624	1633	S15	W40	6537	03	11.6	10	SF		3	E		69		
0221	HOLL	14	1736	1739	1755	S09	E28	6545	03	16.8	19	SN	M 2.1	3	E		71		
0222	HOLL	14	1812	1814	1831	S10	E25	6545	03	16.6	19	1B	X 1.8	3	E		226		UZ
0223	HOLL	14	1825	1830	1835	S19	E77	6550	03	20.6	10	SF		3	E		60		
0224	HOLL	14	1915	1925	1933	S21	W37	6538	03	12.0	18	SF		3	E		21		F
		14	2023		2037	No Flare Patrol													
0225	PALE	14	2051	2051	2055	S23	W17	6538	03	13.5	4	SF		3	E		11		
		14	2054		2223	No Flare Patrol													
0226	PALE	14	2110	2110	2120	S09	E27	6545	03	16.9	10	SF	C 3.4	3	E		19		H
0227	PALE	14	2142	2142	2156	S09	E26	6545	03	16.8	14	SF	C 9.7	3	E		25		

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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
0228	HOLL	14	2239	2239	2243	S10	E29	6545	03	17.1	4	SF		3	E		17		F
0229	LEAR	15	0012E		0012	S19	E69	6548	03	20.3	4D	SF		3	E		32		F
0230	LEAR	15	0013	0018	0039	S10	E25	6545	03	16.9	26	SF	C 2.9	3	E		36		
0231		15	00277	0034	0052	S25	W34	6538	03	12.4	25	SF					45		F
	LEAR	15	0027	0034	0059	S26	W34	6538	03	12.4	32	SF		3	E		86		
	HOLL	15	0032E	0032U	0050D	S24	W34	6538	03	12.4	18D	SF		2	E		25		F
	PALE	15	0034	0034	0044	S25	W33	6538	03	12.5	10	SF		2	E		25		
0232	LEAR	15	0056	0105	0148	S32	W70	6544	03	9.5	52	1F	C 7.7	3	E		140		
0233	YUNN	15	0123E	0130	0145	S10	E25	6545	03	16.9	22D	1B			P		189	2.1	
0234	YUNN	15	0150	0155	0209	N00	E80	6549	03	21.0	19	1N			C		31		
0235		15	0203*	0225*	0459	S10	E23	6545	03	16.8	176	SB	M 1.6				105	0.7	EFK
	YUNN	15	0203	0225	0305D	S09	E25	6545	03	17.0	62D	SB			P		63	0.7	
	LEAR	15	0212	0229	0515	S10	E22	6545	03	16.7	183	SB			E		68		K
	MITK	15	0404	0406	0427	S09	E23	6545	03	16.9	23	SN			C	0406			E
	LEAR	15	0405E	0405	0515	S10	E22	6545	03	16.8	70D	1B	M 1.6	3	E		183		F
0236	LEAR	15	0257	0303	0321	S16	E82	6550	03	21.3	24	SF		3	E		98		
0237	LEAR	15	0445	0448	0510	S26	W24	6538	03	13.3	25	SF		3	E		47		F
0238		15	0531	0541*	0623	S10	E24	6545	03	17.0	52	SF	C 5.6				40		FK
	LEAR	15	0531	0541	0626	S10	E25	6545	03	17.1	55	SF	C 5.6	3	E		45		F
	LEAR	15	0531	0607	0626	S10	E25	6545	03	17.1	55	SF			E		40		K
	SVTO	15	0559E	0602U	0616	S09	E21	6545	03	16.8	17D	SF		1	E		35		
0239		15	06224	06315	0649	S12	E75	6554A	03	20.9	27	1N	C 5.5				178		DG
	LEAR	15	0622	0636	0652	S12	E74	6554A	03	20.8	30	1N	C 5.5	3	E		239		
	URUM	15	0625	0636	0647	S12	E73	6554A	03	20.8	22	SN			C		64		D
	MITK	15	0626	0631	0647	S11	E77	6554A	03	21.1	21	1N			C	0631	230		G
0240	LEAR	15	0642	0653	0708	S25	W26	6538	03	13.3	26	SF		3	E		30		F
0241		15	0704	0716	0727	S10	E22	6545	03	16.9	23	SF					50		
	LEAR	15	0704	0716	0732	S10	E21	6545	03	16.9	28	SF		3	E		50		
	KANZ	15	0713E	0713U	0722	S10	E23	6545	03	17.0	9D	SF			C				
0242		15	07345	07402	0807	S09	E20	6545	03	16.8	33	SN	M 1.0				122	1.4	DF
	LEAR	15	0734	0740	0821	S09	E21	6545	03	16.9	47	1B	M 1.0	3	E		107		F
	URUM	15	0737	0741	0751	S09	E21	6545	03	16.9	14	SN			C		96	1.1	D
	KANZ	15	0738	0742	0750	S09	E20	6545	03	16.8	12	SF			V				
	HTPR	15	0739	0740	0745D	S08	E16	6545	03	16.5	6D	SF			C	0740	50	0.5	
	YUNN	15	0745E	0745U	0827	S09	E22	6545	03	17.0	42D	1N			P	0745	236	2.6	
0243		15	0921*	0935*	1015	S08	E21	6545	03	17.0	54	SN	C 4.0				62	0.8	EFK
	LEAR	15	0921	0935	1022	S08	E30	6545	03	17.6	61	SB			E		22		K
	LEAR	15	0921	0954	1022	S09	E19	6545	03	16.8	61	SN	C 4.0	3	E		85		FE
	HTPR	15	0942	0953	1015	S08	E17	6545	03	16.7	33	SF			C	0953	80	0.8	
	KANZ	15	0951	0955	1002	S09	E19	6545	03	16.8	11	SN			V				
0244	KANZ	15	1014	1014	1025	S11	E16	6545	03	16.6	11	SF			V				
0245		15	12121	12172	1234	S26	W27	6538	03	13.4	22	SF					21		
	RAMY	15	1212	1219	1233	S26	W27	6538	03	13.4	21	SF		3	E		21		
	KANZ	15	1213	1217	1236	S25	W27	6538	03	13.4	23	SF			V				
0246	KANZ	15	1240	1244	1247	S09	E17	6545	03	16.8	7	SF			V				
0247		15	15331	15331	1540	S22	W46	6538	03	12.1	7	SF	C 3.2				19		F
	HOLL	15	1533	1533	1541	S21	W47	6538	03	12.0	8	SF	C 3.2	3	E		19		F
	KANZ	15	1534	1534	1538	S22	W46	6538	03	12.1	4	SF			V				

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0248		15	16081	1609	1617	S26	W29	6538	03	13.4	9	SF					29		F
	HOLL	15	1608	1609	1619	S25	W30	6538	03	13.3	11	SF		3	E		29		F
	KANZ	15	1609	1609	1615	S26	W28	6538	03	13.5	6	SF			V				
0249		15	16252	16273	1640	S12	E14	6545	03	16.7	15	SN	C 3.8				46		EFH
	RAMY	15	1625	1630U	1642D	S12	E15	6545	03	16.8	17D	SF		2	E		40		H
	HOLL	15	1626	1630	1640	S12	E14	6545	03	16.7	14	SN	C 3.8	3	E		52		FE
	KANZ	15	1627	1627	1631D	S11	E14	6545	03	16.7	4D	SN			V				
		15	1728		1743	No Flare Patrol													
0250	HOLL	15	1800	1805	1816	S10	E15	6545	03	16.9	16	SN	C 5.8	3	E		77		EF
0251	HOLL	15	1807	1814	1816	S23	W41	6538	03	12.6	9	SF		3	E		18		F
0252	HOLL	15	1812	1814	1816	S10	E34	6547	03	18.3	4	SF		3	E		23		F
0253	HOLL	15	1827	1835	1851	S21	W49	6538	03	12.0	24	SF		3	E		24		F
0254		15	18357	1835*	1854	S10	E16	6545	03	17.0	19	SF					16		F
	HOLL	15	1835	1835	1840	S10	E15	6545	03	16.9	5	SF		3	E		14		F
	HOLL	15	1842	1848	1907	S10	E18	6545	03	17.1	25	SF		3	E		18		
0255	HOLL	15	1856	1920	1934	S23	W41	6538	03	12.6	38	SF		3	E		24		
0256		15	2036	2037	2059D	S10	E14	6545	03	16.9	23D	SF	C 3.4				25		F
	PALE	15	2035E	2035U	2058D	S09	E11	6545	03	16.7	23D	SF		3	E		30		F
	HOLL	15	2036	2037	2059D	S10	E17	6545	03	17.1	23D	SF	C 3.4	3	E		20		F
0257	RAMY	15	2105E	2124U	2129	S20	W53	6538	03	11.8	24D	SF		2	E		24		H
		15	2215		2228	No Flare Patrol													
0258		15	2229E	2232U	2339	S10	E08	6545	03	16.5	70D	SN	M 2.1				91		EF
	HOLL	15	2229E	2232U	2259D	S10	E09	6545	03	16.6	30D	SN		2	E		84		FE
	LEAR	15	2233E	2234U	2339	S11	E08	6545	03	16.5	66D	SN	M 2.1	3	E		98		E
		15	2230		2232	No Flare Patrol													
0259		16	00072	00092	0027	S11	E11	6545	03	16.8	20	SN	C 3.6				29		EF
	HOLL	16	0007	0011	0021	S11	E08	6545	03	16.6	14	SN		2	E		35		E
	LEAR	16	0007	0011	0041	S10	E15	6545	03	17.1	34	SN	C 3.6	3	E		31		F
	PALE	16	0009	0009	0020	S11	E09	6545	03	16.7	11	SF		3	E		21		
0260		16	00461	0046*	0117	S10	E08	6545	03	16.6	31	1B	X 1.8				222	1.8	EF
	HOLL	16	0045E	0046	0051D	S11	E07	6545	03	16.5	6D	1B		2	E		132		
	LEAR	16	0046	0050	0126	S10	E08	6545	03	16.6	40	2B		3	E		292		F
	PALE	16	0047	0050	0109	S10	E09	6545	03	16.7	22	2B	X 1.8	3	E		295		
	PEKG	16	0107E	0110	0116	S11	E08	6545	03	16.6	9D	SB			P	0110	168	1.8	E
0261		16	02083	0212	0224	S12	E06	6545	03	16.5	16	SN					58	0.9	DF
	PEKG	16	0208	0212	0218	S11	E07	6545	03	16.6	10	SN			P	0212	84	0.9	D
	LEAR	16	0211	0212	0229	S12	E06	6545	03	16.5	18	SF		3	E		31		F
0262	PEKG	16	0350	0354	0358	S04	E70	6549	03	21.4	8	SB			P	0354	84		D
0263		16	03555	0358*	0426	S08	E30	6547	03	18.4	31	SF					47	0.6	EFK
	LEAR	16	0355	0358	0432	S08	E30	6547	03	18.4	37	SF			E		49		K
	LEAR	16	0355	0409	0432	S08	E30	6547	03	18.4	37	SF		3	E		28		F
	YUNN	16	0356E	0417	0428	S08	E29	6547	03	18.3	32D	SN			P		47	0.6	E
	PEKG	16	0357	0358	0403	S09	E30	6547	03	18.4	6	SN			P	0358	63	0.7	E
	URUM	16	0400	0410	0435	S09	E29	6547	03	18.3	35	SF			C		48	0.6	E
0264		16	0417*	04305	0453	S12	E08	6545	03	16.8	36	SB	C 6.8				124	1.4	DEF
	YUNN	16	0417	0430	0458	S12	E09	6545	03	16.8	41	SB			C		189	2.0	F
	LEAR	16	0421	0433	0501	S13	E10	6545	03	16.9	40	SN	C 6.8	3	E		92		FE
	URUM	16	0422	0435	0442D	S13	E07	6545	03	16.7	20D	SN			C		48	0.5	E
	PEKG	16	0427	0431	0440	S12	E07	6545	03	16.7	13	SB			P	0431	168	1.8	D

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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
0265	HTPR	16	0910	0922	0955	S12	E04	6545	03	16.7	45	SF			C	0922	120	1.2	
0266		16	10409	10528	1123	S12	E05	6545	03	16.8	43	1B	M 4.8				202	4.2	FHK
	HTPR	16	1040	1052	1135	S11	E05	6545	03	16.8	55	1N			C	1052	420	4.2	
	KANZ	16	1049	1053	1128	S11	E05	6545	03	16.8	39	1B			V				
	RAMY	16	1052E	1054	1114	S14	E05	6545	03	16.8	22D	1B	M 4.8	1	E		137		FH
	RAMY	16	1052E	1100	1114	S14	E05	6545	03	16.8	22D	SB			E		48		K
0267	HTPR	16	1115	1118	1137D	S20	E90	6556A	03	23.3	22D	1N			C	1118	90		A
0268		16	12395	1243*	1317	S09	E01	6545	03	16.6	38	SN	C 9.2				63	1.2	EFKU
	HTPR	16	1239	1243	1251D	S09	E03	6545	03	16.7	12D	SN			C	1243	120	1.2	
	RAMY	16	1241	1246	1308	S09	E01	6545	03	16.6	27	SN	C 9.2	4	E		32		FE
	RAMY	16	1241	1258	1308	S09	E01	6545	03	16.6	27	SN			E		36		K
	KANZ	16	1244	1248	1336	S10	W01	6545	03	16.4	52	1N			V				U
0269	KANZ	16	1448	1458	1516	S11	W02	6545	03	16.5	28	SF			V				
0270	RAMY	16	1704	1704	1709	S10	W02	6545	03	16.6	5	SF		3	E		12		
0271		16	17209	1721*	1729	S18	W66	6538	03	11.7	9	SF	C 3.5				22		F
	RAMY	16	1720	1721	1725	S18	W66	6538	03	11.7	5	SF	C 3.5	3	E		26		F
	RAMY	16	1729	1731	1733	S18	W66	6538	03	11.7	4	SF		3	E		17		F
0272	HOLL	16	1751	1753	1800	S20	W63	6538	03	11.9	9	SF	C 4.8	3	E		19		F
0273		16	1755	17584	1804	S30	E90		03	23.8	9	SF					38		F
	HOLL	16	1755	1758	1804	S31	E90		03	23.8	9	SF		3	E		64		F
	RAMY	16	1755	1802	1804	S30	E89		03	23.7	9	SF		3	E		12		
0274		16	18012	1806	1820	S10	W02	6545	03	16.6	19	1B	M 1.1				88		FU
	HOLL	16	1801	1806	1820	S10	W02	6545	03	16.6	19	1B	M 1.1	3	E		128		UF
	RAMY	16	1803	1806	1819	S09	W02	6545	03	16.6	16	SN		3	E		48		F
0275	HOLL	16	1900E	1907U	1918	S10	W04	6545	03	16.5	18D	SF		2	E		41		F
0276		16	1952	1955	2000	S30	E88		03	23.7	8	1N					102		
	RAMY	16	1952	1955	2000	S29	E87		03	23.6	8	SF		3	E		57		
	HOLL	16	1952	1955	2001	S31	E90		03	23.9	9	1N		3	E		146		
0277		16	2006*	2007*	2024	S18	W66	6538	03	11.8	18	SF	C 8.0				54		FU
	RAMY	16	2006	2007	2019	S16	W67	6538	03	11.7	13	SF	C 8.0	3	E		51		F
	HOLL	16	2010E	2012U	2019	S17	W69	6538	03	11.6	9D	SN		2	E		87		U
	RAMY	16	2021	2021	2029	S20	W64	6538	03	11.9	8	SF	C 7.9	3	E		20		
	HOLL	16	2021	2023	2028	S20	W65	6538	03	11.9	7	SF		2	E		59		F
0278		16	20451	20466	2106	S20	W65	6538	03	11.9	21	1N	M 1.9				89		F
	HOLL	16	2045	2052	2111	S20	W65	6538	03	11.9	26	1N		2	E		154		
	RAMY	16	2046	2046	2100	S19	W65	6538	03	11.9	14	SF	M 1.9	3	E		24		F
0279	RAMY	16	2144	2156	2220D	S09	W04	6545	03	16.6	36D	2B	M 6.0	3	E		317		FH
0280	HOLL	16	2219	2221	2225	S30	E94	6555	03	24.3	6	SF		3	E		48		
0281	LEAR	17	0016	0017	0022	S10	W05	6545	03	16.6	6	SF	C 3.2	3	E		19		F
0282	LEAR	17	0024	0027	0042	S22	W58	6538	03	12.5	18	SF	C 4.3	3	E		26		F
0283	LEAR	17	0028	0030	0034	S08	E00	6545	03	17.0	6	SF		3	E		25		F
0284		17	0142	0145*	0210	S20	W68	6538	03	11.9	28	SN	M 1.1				53		DEFK
	LEAR	17	0142	0145	0220	S20	W67	6538	03	11.9	38	SN	M 1.1	3	E		83		FE
	WATU	17	0142	0146	0158	S21	W68	6538	03	11.8	16	SF			C	0146	60		F
	PEKG	17	0142	0152	0200	S21	W67	6538	03	11.9	18	SN			P	0152	21		D
	LEAR	17	0142	0203	0220	S20	W67	6538	03	11.9	38	SN			E		55		K
	YUNN	17	0151E	0153	0214	S20	W72	6538	03	11.6	23D	SN			P		47		

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0285		17	0204*	0217*	0310	S29	E89	6555	03	24.1	66	1B	M	1.2				169		AK
	YUNN	17	0204	0219	0317	S28	E86	6555	03	23.8	73					C				A
	LEAR	17	0215	0217	0306	S29	E90	6555	03	24.1	51	1B	M	1.2	3	E		240		
	LEAR	17	0215	0250	0306	S29	E90	6555	03	24.1	51	1B				E		98		K
0286		17	0406	04097	0439	S10	W03	6545	03	16.9	33	1N	C	4.4				138	1.7	EFK
	LEAR	17	0406	0409	0446	S10	W03	6545	03	16.9	40	1N	C	4.4	3	E		103		FE
	LEAR	17	0406	0416	0446	S10	W03	6545	03	16.9	40	1N				E		143		K
	PEKG	17	0414E	0414	0425	S10	W04	6545	03	16.9	11D	SN				P	0414	168	1.7	E
0287		17	0453	04559	0508	S25	E90	6555	03	24.2	15	SN	M	1.8				70		K
	LEAR	17	0453	0455	0508	S25	E90	6555	03	24.2	15	SN	M	1.8	3	E		65		
	LEAR	17	0453	0504	0508	S25	E90	6555	03	24.2	15	SN				E		75		K
0288		17	05372	05423	0554	S19	W73	6538	03	11.7	17	SN	M	1.4				68		EF
	URUM	17	0537	0543	0549	S20	W74	6538	03	11.6	12	SN				C		32		E
	LEAR	17	0538	0545	0602	S18	W73	6538	03	11.7	24	SN	M	1.4	3	E		91		FE
	WATU	17	0539	0542	0551	S19	W73	6538	03	11.7	12	1F				C	0542	80		F
0289	LEAR	17	0553	0556	0604	S07	W03	6545	03	17.0	11	SF			3	E		34		
0290		17	06001	06032	0613	S10	E15	6547	03	18.4	13	SN						56	0.6	EF
	URUM	17	0600	0603	0612	S10	E14	6547	03	18.3	12	SN				C		32	0.3	E
	LEAR	17	0601	0604	0616	S10	E16	6547	03	18.4	15	SN			3	E		47		F
	WATU	17	0601	0605	0612	S10	E14	6547	03	18.3	11	SN				C	0605	90	1.0	F
0291	YUNN	17	0613	0640	0723	S27	E86	6555	03	24.0	70					C				Y
0292	LEAR	17	0824	0825	0834	S22	E12	6546	03	18.3	10	SF	C	4.5	3	E		40		
0293	YUNN	17	0825E	0830U	0830D	S24	E87	6555	03	24.1	5D					P	0830			Y
0294	LEAR	17	0832	0835	0844	S09	W04	6545	03	17.0	12	SF			3	E		22		F
0295		17	0926	0932	0953	S25	E84	6555	03	23.9	27	2B	M	2.1				547		
	LEAR	17	0926	0932	0953	S25	E83	6555	03	23.8	27	2B	M	2.1	3	E		547		
	KANZ	17	0939E	0939U	0951D	S25	E84	6555	03	23.9	12D	2N				C				
0296		17	0940	09403	0959	S10	W13	6545	03	16.4	19	SF						55		F
	KANZ	17	0939E	0940	0951D	S10	W13	6545	03	16.4	12D	SF				C				
	LEAR	17	0940	0943	0959	S10	W13	6545	03	16.4	19	SF			3	E		55		F
		17	1029		1055	No Flare Patrol														
0297	RAMY	17	1115	1123	1127	S24	E81	6555	03	23.7	12	SF	C	4.0	3	E		31		
0298	RAMY	17	1134	1143	1204	S09	W14	6545	03	16.4	30	SF	C	8.4	3	E		39		F
		17	1242		1247	No Flare Patrol														
0299	HOLL	17	1331E	1336U	1344	S28	E89	6555	03	24.5	13D	SF			1	E		42		
0300	HOLL	17	1411	1413	1420	S09	W12	6545	03	16.7	9	SF			3	E		23		F
0301		17	1435	1440	1452	S26	E90	6555	03	24.6	17	2B	M	2.3				344		M
	RAMY	17	1435	1440	1452	S26	E86	6555	03	24.3	17	1B			3	E		187		
	HOLL	17	1435	1440	1452	S26	E93	6555	03	24.8	17	2B	M	2.3	4	E		502		M
0302	HOLL	17	1458	1500	1509	S21	W73	6538	03	12.0	11	SF			4	E		18		
0303		17	1600	16012	1612	S10	W13	6545	03	16.7	12	SF	C	4.7				20		
	RAMY	17	1600	1601	1611	S10	W13	6545	03	16.7	11	SF	C	4.7	3	E		26		
	HOLL	17	1600	1603	1612	S10	W13	6545	03	16.7	12	SF			3	E		15		
0304		17	17401	1750	1805	S10	W14	6545	03	16.7	25	SB	M	2.4				87		F
	HOLL	17	1740	1750	1805	S10	W14	6545	03	16.7	25	SB	M	2.4	3	E		99		F
	RAMY	17	1741	1750	1805	S09	W15	6545	03	16.6	24	SN			3	E		75		
0305	HOLL	17	1853	1855	1900	S10	W06	6545	03	17.3	7	SF			3	E		21		

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0306		17	18545	19002	1914	S26	E87	6555	03	24.5	20	1N					88		F
	HOLL	17	1854	1902	1923	S27	E90	6555	03	24.8	29	1N		3	E		146		F
	RAMY	17	1859	1900	1905	S26	E84	6555	03	24.3	6	SF		3	E		30		
0307	HOLL	17	1956	1958	2001	S20	W62	6538	03	13.1	5	SF		3	E		19		H
0308	HOLL	17	2033	2040	2126	S22	E87	6555	03	24.5	53	1F	C 6.5	3	E		123		H
0309		17	2040	20405	2053	S10	W16	6545	03	16.6	13	SF					28		FK
	HOLL	17	2040	2040	2053	S10	W16	6545	03	16.6	13	SF		3	E		26		F
	HOLL	17	2040	2045	2053	S10	W16	6545	03	16.6	13	SF			E		31		K
0310		17	2054	2126*	2305D	S10	W13	6545	03	16.9	131D	2B	X 1.0				226		FKZ
	HOLL	17	2054	2126	2305D	S10	W13	6545	03	16.9	131D	2B	X 1.0	3	E		307		ZF
	HOLL	17	2054	2143	2305D	S10	W13	6545	03	16.9	131D	2B			E		144		K
0311	HOLL	17	2150	2153	2159	S25	E78	6555	03	23.9	9	SF		3	E		21		
0312	HOLL	17	2230	2246	2312	S25	E78	6555	03	24.0	42	SF		3	E		40		
0313	LEAR	17	2304	2312	2327	S17	E43	6550	03	21.2	23	SF		3	E		28		
0314		17	2312	2317	2357	S10	W10	6545	03	17.2	45	SN					71		EF
	HOLL	17	2312	2317	2355	S11	W05	6545	03	17.6	43	SN		3	E		71		F
	LEAR	17	2312	2317	2359	S10	W14	6545	03	16.9	47	SN		3	E		71		FE
0315	LEAR	17	2316	2317	2330	N23	E13	6551	03	19.0	14	SF		3	E		12		
0316	LEAR	17	2322	2328	2343	S25	E77	6555	03	23.9	21	1N	C 8.6	3	E		189		EF
0317		17	2359	24044	2431	S25	W60	6538	03	13.3	32	SF					32		
	HOLL	17	2359	2408	2449D	S25	W59	6538	03	13.4	50D	SF		3	E		40		
	LEAR	18	0004E	0004	0031	S25	W61	6538	03	13.3	27D	SF		3	E		23		
0318	LEAR	18	0111	0112	0122	S17	E42	6550	03	21.2	11	SF		3	E		26		
0319	LEAR	18	0133	0138	0146	S25	E76	6555	03	23.9	13	SF		3	E		43		
0320		18	01512	01552	0211	S22	E76	6555	03	23.9	20	SN	C 5.6				102		F
	LEAR	18	0151	0155	0215	S23	E77	6555	03	24.0	24	1N	C 5.6	3	E		188		F
	YUNN	18	0152E	0155	0215	S22	E75	6555	03	23.8	23D	SN			P		79		
	WATU	18	0153	0157	0204	S22	E76	6555	03	23.9	11	SF			C	0157	40		
0321		18	0218*	02311	0241	N21	E07	6551	03	18.6	23	SN					46	0.4	EF
	LEAR	18	0218	0232	0245	N22	E12	6551	03	19.0	27	SN		3	E		76		FE
	WATU	18	0229	0231	0237	N21	E05	6551	03	18.5	8	SF			C	0231	30	0.4	
	YUNN	18	0236E	0236U	0245D	N20	E05	6551	03	18.5	9D	SN			P	0236	31	0.4	
0322	LEAR	18	0419	0433	0439	S25	E80	6555	03	24.4	20	1F		3	E		100		F
0323	LEAR	18	0419	0420U	0434	S10	W24	6545	03	16.4	15	SF		3	E		14		
0324		18	0443	0503	0527	S23	E76	6555	03	24.0	44	1N					96		E
	LEAR	18	0443	0503	0520	S23	E78	6555	03	24.2	37	1F		3	E		152		
	TACH	18	0503E		0534	S23	E75	6555	03	24.0	31D	SB		1	C	0506	41		E
0325	LEAR	18	0550	0552	0559	S09	W29	6545	03	16.1	9	SF		3	E		18		
0326	LEAR	18	0620	0627	0635	S17	E42	6550	03	21.4	15	SF		3	E		25		
0327		18	0722	0713*	0757	S21	E76	6555	03	24.1	35	SF					72		FK
	LEAR	18	0713E	0713	0803	S22	E75	6555	03	24.1	50D	SF			E		62		K
	LEAR	18	0713E	0732	0803	S22	E75	6555	03	24.1	50D	1F		3	E		114		F
	SVTO	18	0722	0731	0746	S18	E78	6555	03	24.2	24	SF		2	E		40		
0328	LEAR	18	0751	0753	0758	S17	E41	6550	03	21.4	7	SF		3	E		19		

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0329		18	07522	0816	0836	S11	W26	6545	03 16.4	44	SN					103	1.4	EF
	LEAR	18	0752	0816	0838	S11	W27	6545	03 16.3	46	SN		3	E		57		F
	YUNN	18	0754	0808U	0834	S09	W25	6545	03 16.4	40	SN			P	0808	79	0.9	
	ABST	18	0813E	0813U	0837	S14	W26	6545	03 16.4	24D	SN			P	0813	174	2.0	E
0330	YUNN	18	0758	0807	0814	N22	E03	6551	03 18.6	16	SN			C		16	0.2	E
0331		18	0849	0852*	1023	S20	E79	6555	03 24.4	94	SN					72		K
	LEAR	18	0849	0852	1023	S20	E79	6555	03 24.4	94	SN			E		48		K
	LEAR	18	0849	0912	1023	S20	E79	6555	03 24.4	94	SN		3	E		95		
0332	LEAR	18	0936	0943	1002	S10	W24	6545	03 16.6	26	SN	C 8.0	3	E		44		EF
0333	ONDR	18	1029E	1029U	1047	S09	W23	6545	03 16.7	18D	SN			P	1029	88	1.0	E
0334	KHAR	18	1035		1100	S21	E75	6555	03 24.2	25	SF		2	P				E
0335	SVTO	18	1114E	1127U	1233D	S25	E73	6555	03 24.1	79D	1F		2	E		118		
		18	1215		1232	No Flare Patrol												
		18	1245		1318	No Flare Patrol												
0336	SVTO	18	1320	1321	1338	S10	W30	6545	03 16.3	18	SF		3	E		26		F
0337	SVTO	18	1333	1339	1342	S26	W67	6538	03 13.3	9	SF		3	E		87		
		18	1344		1359	No Flare Patrol												
0338	HOLL	18	1418	1418	1426	N21	E06	6551	03 19.0	8	SF		2	E		13		F
0339	HOLL	18	1427	1429	1445	S23	E70	6555	03 24.0	18	SF		3	E		47		
0340	HOLL	18	1449	1506	1531	S14	W78	6542	03 12.7	42	1F		3	E		127		F
0341	HOLL	18	1506	1509	1515	S25	E71	6555	03 24.1	9	SF		3	E		24		
0342	HOLL	18	1620	1626	1639	S24	E71	6555	03 24.2	19	SF		3	E		28		
0343	HOLL	18	1632	1634	1647	S10	W28	6545	03 16.6	15	SF		3	E		40		
0344	HOLL	18	1652	1710	1735	S23	E71	6555	03 24.2	43	SN		3	E		58		F
0345		18	1713	17315	1809	S10	W24	6545	03 16.9	56	1N	M 5.3				153		FKZ
	HOLL	18	1713	1731	1809	S10	W24	6545	03 16.9	56	1B	M 5.3	4	E		187		ZF
	HOLL	18	1713	1736	1809	S10	W24	6545	03 16.9	56	1F			E		119		K
0346	HOLL	18	1723	1731	1741	N23	E06	6551	03 19.2	18	SF		3	E		23		F
0347		18	1802	1805*	1844	S25	W71	6538	03 13.2	42	SN					84		K
	HOLL	18	1802	1805	1844	S25	W71	6538	03 13.2	42	SN			E		80		K
	HOLL	18	1802	1819	1844	S25	W71	6538	03 13.2	42	SN		3	E		89		
0348	HOLL	18	1826	1836	1853	S25	E75	6555	03 24.6	27	SF		4	E		44		F
0349	HOLL	18	1901	1902	1909	S26	E78	6555	03 24.8	8	SF		3	E		22		F
0350	HOLL	18	1909	1915	1945	S23	W69	6538	03 13.5	36	SF		3	E		31		
0351	HOLL	18	1915	1921	1944	S25	E77	6555	03 24.8	29	SN		3	E		43		
0352		18	1952	1954*	2033	S25	E74	6555	03 24.6	41	SN					38		FK
	HOLL	18	1952	1954	2033	S25	E74	6555	03 24.6	41	SB			E		28		K
	HOLL	18	1952	2013	2033	S25	E74	6555	03 24.6	41	SF		3	E		48		F
		18	2023		2031	No Flare Patrol												
		18	2033		2227	No Flare Patrol												
0353	HOLL	18	2051	2102	2118	S21	W77	6538	03 13.0	27	SF		3	E		87		

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0354	HOLL	18	2118	2119	2128	S24	E69	6555	03	24.2	10	SF		3	E		29		
0355	HOLL	18	2138	2140	2158	S10	W31	6545	03	16.6	20	SB	M 1.4	3	E		82		EF
0356	HOLL	18	2211	2219	2300D	S24	E68	6555	03	24.2	49D	SF	M 1.0	3	E		54		
		18	2251		2254	No Flare Patrol													
0357		18	2303	2308	2348	S10	W32	6545	03	16.5	45	1N	M 1.3				202	2.4	FH
	LEAR	18	2303E	2307U	2417	S10	W34	6545	03	16.4	74D	2B	M 1.3	3	E		311		
	MITK	18	2303	2308	2318	S10	W35	6545	03	16.3	15	1N			C	2308	190	2.4	H
	HOLL	18	2313E	2313U	2420D	S10	W28	6545	03	16.9	67D	1N		3	E		105		F
0358		19	01476	01571	0226	S10	W34	6545	03	16.5	39	1B	M 6.7				246	1.4	EH
	LEAR	19	0147	0158	0240	S10	W33	6545	03	16.6	53	2B	M 6.7	3	E		501		
	WATU	19	0153	0157		S11	W35	6545	03	16.4		SB			C	0157	80	1.0	
	YUNN	19	0157E	0203U	0205D	S10	W34	6545	03	16.5	8D	SB			P	0203	157	1.9	
	MITK	19	0200E		0212	S10	W34	6545	03	16.5	12D	SN			C	0200			EH
0359		19	0156	0204	0240	S24	E63	6555	03	23.9	44	1N					106	1.8	
	LEAR	19	0156	0204	0240	S23	E63	6555	03	23.9	44	1F		3	E		132		
	YUNN	19	0202E	0202U	0202D	S24	E63	6555	03	23.9	44D	SN			P	0202	79	1.8	
0360	LEAR	19	0612	0612	0623	S10	W35	6545	03	16.6	11	SF	M 1.2	3	E		46		
0361	YUNN	19	0612E	0612U	0623	S22	W75	6552	03	13.5	11D	SN			P	0612	16		D
0362	YUNN	19	0648E	0648U	0703	S21	E71	6555	03	24.7	15D	SN			P	0648	63		E
0363		19	0805	0805	0826	S10	W41	6545	03	16.2	21	SN					56	0.9	
	LEAR	19	0805	0805	0830	S10	W41	6545	03	16.2	25	SF		3	E		50		
	YUNN	19	0814E	0814U	0823	S09	W41	6545	03	16.3	9D	SN			P	0814	63	0.9	
0364		19	0829	0830	0841	S22	E62	6555	03	24.1	12	SF	C 9.4				50	1.3	
	YUNN	19	0823E	0839U	0844	S20	E61	6555	03	24.0	21D	SF			P	0839	63	1.3	
	LEAR	19	0829	0830	0838	S25	E63	6555	03	24.2	9	SF	C 9.4	3	E		37		
0365		19	0921	09231	0933	S16	E28	6550	03	21.5	12	SN					102	1.3	E
	LEAR	19	0921	0923	0936	S16	E27	6550	03	21.4	15	SF		3	E		84		
	ONDR	19	0921E	0924	0930	S16	E28	6550	03	21.5	9D	SB			P	0924	113	1.3	E
	YUNN	19	0921E	0925U	0938D	S17	E28	6550	03	21.5	17D	SN			P	0925	110	1.3	
		19	1031		1102	No Flare Patrol													
0366		19	1103	1104	1116	S10	W38	6545	03	16.6	13	SB					118	1.4	DERXZ
	ONDR	19	1103E	1103U	1116	S10	W38	6545	03	16.6	13D	SB			P	1103	85	1.1	EZ
	KHAR	19	1103	1104	1115	S09	W38	6545	03	16.6	12	SB		2	P	1107	150	1.8	DRX
0367	KHAR	19	1143		1150	S09	W38	6545	03	16.6	7	SF		2	P				D
		19	1151		1216	No Flare Patrol													
		19	1220		1226	No Flare Patrol													
		19	1233		1259	No Flare Patrol													
0368	KANZ	19	1306	1306	1313	S21	E69	6555	03	24.8	7	SF			C				
0369	KANZ	19	1340	1340	1348	S24	E59	6555	03	24.1	8	SF			C				
		19	1442		1939	No Flare Patrol													
		19	2101		2159	No Flare Patrol													
		19	2243		2256	No Flare Patrol													
0370		19	2350	23564	2438	S22	E58	6555	03	24.4	48	1N					149	2.5	EHIJKNT
	MITK	19	2350	2400	2442	S20	E63	6555	03	24.8	52	1N			C	2400	140	3.0	H
	LEAR	19	2351E	2356	2435D	S25	E54	6555	03	24.2	44D	SN			E		61		K
	LEAR	19	2351E	2416U	2435D	S25	E54	6555	03	24.2	44D	2N		3	E		296		
	VORO	20	0014E		0035	S20	E61	6555	03	24.7	21D	SF			C	0014	99	2.0	ENIJT
0371	VORO	20	0246	0250	0259	S28	E57	6550D	03	24.6	13	SF			C	0250	36	0.7	EIJT

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0372		20	0325	03316	0348	S24	W88	6538	03	13.3	23	2B					870		AHY
	MITK	20	0325	0331	0336	S23	W90	6538	03	13.2	11	2B			C	0331	870		HY
	YUNN	20	0335E	0337	0400	S25	W87	6538	03	13.4	25D				P				A
0373		20	0347E	0355U	0502	S10	W44	6545	03	16.8	75D	1B					226	3.5	
	YUNN	20	0347E	0355U	0502	S10	W46	6545	03	16.7	75D	1B			P	0355	236	3.5	
	LEAR	20	0414E		0502D	S09	W41	6545	03	17.1	48D	1N		3	E		216		
0374		20	05258	0544*	0612	S28	E54	6550D	03	24.4	47	1B					206	3.8	EF
	MITK	20	0525	0544	0605	S29	E54	6550D	03	24.4	40	1N			C	0544	160	2.9	E
	YUNN	20	0533	0555	0618	S28	E55	6550D	03	24.5	45	1B			C		252	4.6	F
0375		20	0545*	0554*	0632	S22	E58	6555	03	24.7	47	1N	M 7.0				265	7.6	E
	SVTO	20	0535E	0614U	0635	S25	E52	6555	03	24.3	60D	1N	M 7.0	2	E		105		
	PEKG	20	0545	0554	0618	S26	E60	6555	03	24.9	33	2B			P	0606	547	11.1	E
	YUNN	20	0600	0614U	0635	S19	E59	6555	03	24.7	35	2N			P	0614	472	9.3	
	SVTO	20	0604	0622	0627D	S19	E59	6555	03	24.7	23D	SF		3	E		72		
	MITK	20	0608	0614	0638	S20	E58	6555	03	24.7	30	1F			C	0614	130	2.5	
0376	YUNN	20	0620	0632	0637D	S10	W53	6545	03	16.3	17D	SN			P		47	0.8	
0377	SVTO	20	0629	0630	0633	S09	W43	6545	03	17.0	4	SF		3	E		11		
0378	KANZ	20	0712E	0722	0733	S29	E54	6550D	03	24.5	21D	SF			V				
0379		20	0829*	0834*	0856	S22	E60	6555	03	25.0	27	SF					127	2.5	DH
	ABST	20	0829	0834	0848	S19	E56	6555	03	24.6	19	1F			C	0834	174	3.1	DH
	KANZ	20	0840	0844	0900	S23	E60	6555	03	25.0	20	SF			V				
	HTPR	20	0844		0900	S24	E65	6555	03	25.4	16	SF			C	0849	80	1.9	
0380	KANZ	20	0852	0852	0856	S12	E21	6554A	03	21.9	4	SF			V				
0381	HTPR	20	0915	0939	1000	S20	W60		03	15.8	45	SF			C	0939	90	1.6	H
0382	ATHN	20	1002E	1003U	1010	S23	E59	6555	03	25.0	8D	1N		2	V	1003	207	4.2	
0383	HTPR	20	1012	1016	1025	S21	W57		03	16.0	13	SF			C	1016	40	0.7	
0384		20	1027	1030	1101D	S20	E56	6555	03	24.7	34D	2N					264	4.7	EFHIKT
	HTPR	20	1027	1030	1101D	S20	E58	6555	03	24.9	34D	1N			C	1030	200	3.6	H
	ONDR	20	1027E	1040U	1045D	S21	E55	6555	03	24.6	18D	2N			P	1040	328	5.8	EFKIT
0385	HTPR	20	1049	1051	1100	S12	E20	6554A	03	21.9	11	SF			C	1051	60	0.6	
0386	HTPR	20	1050	1055	1120	S24	E62	6555	03	25.2	30	1N			C	1055	140	2.8	H
0387	HTPR	20	1149	1200	1205	S12	W52	6545	03	16.6	16	1F			C	1200	170	2.6	
0388	HTPR	20	1157		1205	S20	E57	6555	03	24.8	8	SF			C	1159	90	1.8	T
0389	HTPR	20	1228	1231	1240	S14	E20	6550	03	22.0	12	SN			C	1231	170	1.8	H
0390	HTPR	20	1305	1310	1325	S10	W54	6545	03	16.5	20	1N			C	1310	210	3.8	T
0391	HTPR	20	1314	1316	1325	S08	E56		03	24.8	11	1N			C	1316	130	2.2	D
0392	HTPR	20	1406	1408	1415	S14	E20	6550	03	22.1	9	SN			C	1415	100	1.0	
0393		20	1414	1419	1430	S20	E55	6555	03	24.8	16	1N	C 6.1				202	5.9	EF
	HTPR	20	1414	1419	1430	S20	E53	6555	03	24.6	16	2N			C	1419	350	5.9	E
	SVTO	20	1417E	1417U	1515D	S20	E57	6555	03	24.9	58D	SF	C 6.1	2	E		54		F
0394	HTPR	20	1435	1440	1455	S20	E42	6555	03	23.8	20	1F			C	1440	160	2.5	E
0395		20	1550	1558	1642	S24	E52	6555	03	24.7	52	SF					91	1.6	F
	HTPR	20	1550	1558	1615	S20	E51	6555	03	24.6	25	SF			C	1558	100	1.6	
	HOLL	20	1607E	1611U	1708	S27	E52	6555	03	24.7	61D	SF		2	E		82		F
0396	HTPR	20	1608	1613	1620	S30	E45	6550D	03	24.2	12	SF			C	1613	120	1.9	

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0397		20	1710	1740*	1811	S21	E53	6555	03	24.8	61	1N	C 6.2				96		EFK
	HOLL	20	1710	1740	1811	S21	E53	6555	03	24.8	61	1N	C 6.2	3	E		143		FE
	HOLL	20	1710	1752	1811	S21	E53	6555	03	24.8	61	SF			E		48		K
		20	1714		1719	No Flare Patrol													
		20	1721		2050	No Flare Patrol													
0398	HOLL	20	1724	1724	1753	S11	W52	6545	03	16.8	29	SF	C 4.5	3	E		78		F
0399	HOLL	20	1809	1811	1821	S22	E82	6557	03	27.0	12	SF		3	E		43		F
0400	HOLL	20	1812	1821	1836	S21	E53	6555	03	24.8	24	SN	M 1.1	3	E		76		EF
0401	HOLL	20	1904	1908	1918	S10	W53	6545	03	16.8	14	SF		3	E		20		
0402		20	19077	1907*	1952	S26	E46	6555	03	24.4	45	1N	C 6.0				59		EF
	HOLL	20	1907	1907	1910	S25	E45	6555	03	24.3	3	SF		3	E		17		F
	HOLL	20	1914	1956	2035	S28	E47	6555	03	24.5	81	1N	C 6.0	3	E		101		FE
0403		20	2100*	2111*	2355	S22	E51	6555	03	24.8	175	1N	C 8.3				164	1.8	EFIJKT
	HOLL	20	2100	2111	2350D	S23	E52	6555	03	24.9	170D	1N	C 8.3	2	E		185		FE
	HOLL	20	2100	2113	2350D	S23	E52	6555	03	24.9	170D	1N			E		190		K
	VORO	20	2306	2309	2355	S21	E48	6555	03	24.6	49	SF			C	2317	116	1.8	EIJTK
		20	2245		2303	No Flare Patrol													
0404	VORO	20	2333	2356	2409	S30	E45	6550D	03	24.5	36	1F			C	2356	206	3.2	DIJKT
0405	VORO	20	2355	2405	2432	S24	E54	6555	03	25.2	37	1F			C	2405	161	2.8	EHIJT
0406		21	0035*	0040*	0122	S25	E46	6555	03	24.6	47	1N					174	3.1	DEHIJKT
	VORO	21	0035	0050	0116	S24	E54	6555	03	25.2	41	1F			C	0050	197	3.4	EHIJTK
	LEAR	21	0038E	0040	0138	S25	E41	6555	03	24.2	60D	1B		3	E		100		
	VORO	21	0049	0051	0106	S29	E44	6555	03	24.5	17	SF			C	0051	72	1.1	DIJT
	YUNN	21	0052	0100U	0110	S21	E51	6555	03	24.9	18	2N			P	0100	314	5.2	
	VORO	21	0107	0117	0139	S25	E42	6555	03	24.3	32	1F			C	0117	188	2.6	EHIJT
0407		21	02198	02219	0235	S24	E48	6555	03	24.8	16	SF					148	2.3	DEHIJT
	YUNN	21	0218E	0230	0238	S23	E51	6555	03	25.0	20D	1N			P		236	3.9	
	VORO	21	0219	0221	0233	S25	E42	6555	03	24.3	14	SF			C	0221	99	1.4	EIJT
	VORO	21	0227	0229	0235	S25	E52	6555	03	25.1	8	SF			C	0229	108	1.7	DHIJT
0408	LEAR	21	0254E	0257	0301	S25	E39	6555	03	24.1	7D	SF		3	E		35		F
0409		21	0410*	04293	0441	S24	E50	6555	03	25.0	31	SN	C 4.7				38	0.8	
	YUNN	21	0410	0432	0445	S23	E50	6555	03	25.0	35	SN			C		47	0.8	
	LEAR	21	0425	0429	0437	S25	E51	6555	03	25.1	12	SF	C 4.7	3	E		30		
0410		21	0541*	0547*	0617	S23	E49	6555	03	25.0	36	1N					268	5.1	BDEFHI
	YUNN	21	0541	0552	0620	S24	E50	6555	03	25.1	39	2N			C		503	8.3	
	PEKG	21	0544	0552	0608	S23	E52	6555	03	25.2	24	2B			C	0552	505	8.3	E
	SVTO	21	0545	0547	0630	S25	E45	6555	03	24.7	45	SN		1	E		79		FH
	ABST	21	0558E	0559U	0606	S24	E53	6555	03	25.3	8D	SF			P	0559	87	1.4	BDHI
	PEKG	21	0608	0614	0620	S19	E45	6555	03	24.7	12	1N			C	0614	168	2.5	E
0411		21	07252	07326	0752	S20	E44	6555	03	24.7	27	1B					188	2.7	D
	YUNN	21	0725	0732	0752	S20	E43	6555	03	24.6	27	1N			C		314	4.5	
	PEKG	21	0727	0738	0741D	S19	E45	6555	03	24.7	14D	SB			P	0738	63	0.9	D
		21	0754		0808	No Flare Patrol													
0412		21	0803E	0818	0836	S11	W62	6545	03	16.7	33D	1N	M 2.7				149		BDF
	LEAR	21	0803E	0818	0825D	S12	W61	6545	03	16.7	22D	1B	M 2.7	3	E		233		
	SVTO	21	0810E	0811U	0843D	S13	W60	6545	03	16.8	33D	1N		1	E		101		F
	ABST	21	0818E	0818U	0836	S09	W66	6545	03	16.4	18D	1N			P	0818	114		BD

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0413		21	0811*	0825*	0914	S21	E39	6555	03	24.3	63	1N					263	3.5	DEFHIKU
	LEAR	21	0811	0825	0825D	S23	E39	6555	03	24.3	14D	2B		3	E		266		F
	YUNN	21	0817E	0826U	0925	S19	E34	6555	03	23.9	68D	2N			P	0826	409	5.2	F
	ABST	21	0820E	0828	0859	S18	E33	6555	03	23.9	39D	1N			P	0828	306	3.7	EHIK
	SVTO	21	0823E	0824U	0943	S23	E39	6555	03	24.3	80D	1N		2	E		239		UF
	ABST	21	0841	0842	0848	S23	E49	6555	03	25.1	7	SN			C	0842	96	1.6	DHIK
0414	SVTO	21	0949	0954	1021	S24	E48	6555	03	25.1	32	SF	C 8.0	3	E		59		
0415		21	1029	10338	1050	S24	E48	6555	03	25.1	21	2B	M 2.6				353		FHU
	KANZ	21	1029	1033	1048	S23	E48	6555	03	25.1	19	1B			C				U
	SVTO	21	1029	1041	1051	S24	E48	6555	03	25.1	22	2B	M 2.6	4	E		353		FH
0416		21	10539	1054*	1104	S22	E40	6555	03	24.5	11	SF					30		F
	SVTO	21	1053	1054	1059	S22	E40	6555	03	24.5	6	SF		4	E		31		
	SVTO	21	1102	1104	1110	S22	E39	6555	03	24.4	8	SF		4	E		28		F
0417	SVTO	21	1118	1119	1126	S22	E43	6555	03	24.8	8	SF		4	E		36		
0418	SVTO	21	1120	1127	1146	S09	W61	6545	03	16.9	26	SF		4	E		45		F
0419	SVTO	21	1124	1124	1138	S11	E77	6558	03	27.3	14	SF		3	E		23		
0420	SVTO	21	1147	1154	1208	S25	E43	6555	03	24.8	21	SF		3	E		32		F
0421	SVTO	21	1214	1248	1306	S19	E41	6555	03	24.6	52	SN	M 1.1	3	E		81		
0422	SVTO	21	1333	1346	1410	S23	E38	6555	03	24.5	37	SN	C 9.4	3	E		81		FH
0423	SVTO	21	1426	1426	1436	S26	E37	6555	03	24.5	10	SF		3	E		11		F
0424	SVTO	21	1428	1429	1435	S16	E82	6558	03	27.8	7	SF		3	E		11		
0425		21	1503	1528*	1550	S24	E44	6555	03	25.0	47	1N	M 1.7				126		FHK
	SVTO	21	1503	1528	1550	S24	E44	6555	03	25.0	47	1N	M 1.7	3	E		237		FH
	SVTO	21	1503	1544	1550	S24	E44	6555	03	25.0	47	SF			E		16		K
		21	1553		2238	No Flare Patrol													
0426	HOLL	21	2020E	2022U	2131D	S13	E29	6556	03	24.0	71D	1N	X 1.0	1	E		163		EF
0427		21	2337	2343*	2526	S25	E40	6555	03	25.1	109	2B	M 5.4				198		FK
	LEAR	21	2337	2343	2526	S25	E40	6555	03	25.1	109	2B	M 5.4	3	E		281		F
	LEAR	21	2337	2448	2526	S25	E40	6555	03	25.1	109	1B			E		115		K
0428		22	0045E	0058	0119	S23	E31	6555	03	24.4	34D	SN					95	1.2	EFIJ
	YUNN	22	0045E	0052U	0112	S22	E31	6555	03	24.4	27D	SN			P	0052	63	0.8	
	VORO	22	0057E		0121	S23	E31	6555	03	24.4	24D	SN			C	0057	143	1.8	EIJ
	WATU	22	0058E	0058	0124	S23	E32	6555	03	24.5	26D	SN			C	0058	80	1.0	FI
0429		22	03301	03323	0347	S23	E23	6555	03	23.9	17	SN					65	1.0	DEF
	LEAR	22	0330	0332	0354	S23	E23	6555	03	23.9	24	SF		3	E		37		F
	PEKG	22	0330	0335	0345	S23	E24	6555	03	24.0	15	SB			P	0335	126	1.5	D
	URUM	22	0331	0332	0341	S24	E23	6555	03	23.9	10	SF			C		32	0.4	E
0430	LEAR	22	0411	0413	0416	N00	W10	6549	03	21.4	5	SF	C 3.0	3	E		15		
0431		22	0504*	0508*	0537	S24	E32	6555	03	24.7	33	SN	C 3.5				118	1.6	DEFH
	LEAR	22	0504	0521	0549	S22	E29	6555	03	24.4	45	1N	C 3.5	3	E		108		FE
	URUM	22	0505	0508	0515	S26	E37	6555	03	25.1	10	SF			C		32	0.4	D
	PEKG	22	0508	0523	0530D	S22	E30	6555	03	24.5	22D	1B			P	0523	210	2.6	D
	SVTO	22	0512E	0523	0545	S25	E34	6555	03	24.8	33D	SN		1	E		81		FH
	URUM	22	0515	0521	0540	S23	E28	6555	03	24.4	25	SB			C		161	1.9	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
0432		22	0555*	0601*	0706	S23	E35	6555	03	24.9	71	SN					88	1.4	DEFHK
	URUM	22	0555	0601	0616	S22	E37	6555	03	25.1	21	SF			C		48	0.7	E
	YUNN	22	0555	0603U	0617	S22	E36	6555	03	25.0	22	1N			P	0603	236	3.3	F
	PEKG	22	0558E	0601	0619	S29	E39	6555	03	25.3	21D	1N			P	0601	210	3.0	E
	SVTO	22	0558	0601	0742	S23	E36	6555	03	25.0	104	SF			E		67		K
	SVTO	22	0558	0648	0742	S23	E36	6555	03	25.0	104	SF		3	E		38		FH
	LEAR	22	0604	0606	0707	S26	E37	6555	03	25.1	63	SN			E		54		K
	LEAR	22	0604	0639	0707	S26	E37	6555	03	25.1	63	SN		3	E		55		FE
	ABST	22	0636	0643	0655	S25	E36	6555	03	25.1	19	SF			C	0643	87	1.2	D
	URUM	22	0637	0639	0644	S26	E37	6555	03	25.1	7	SB			C		32	0.4	E
	PEKG	22	0640	0647	0655	S23	E37	6555	03	25.1	15	1N			P	0647	252	3.4	E
	URUM	22	0645	0647	0658	S20	E30	6555	03	24.6	13	SN			C		16	0.2	E
	ABST	22	0646	0648	0655	S23	E36	6555	03	25.0	9	SF			C	0648	87	1.1	D
	URUM	22	0652	0725	0741	S20	E30	6555	03	24.6	49	SN			C		16	0.2	E
	LEAR	22	0712	0720	0743	S22	E29	6555	03	24.5	31	SF		3	E		26		F
	PEKG	22	0715	0724	0740	S19	E32	6555	03	24.7	25	SF			P	0724	84	1.0	D
	ABST	22	0719	0723	0736	S21	E33	6555	03	24.8	17	SF			C	0723	96	1.2	D
0433		22	06031	0604	0616	S10	W70	6545	03	17.0	13	SN					84		F
	LEAR	22	0603	0604	0620	S09	W66	6545	03	17.3	17	SB		4	E		93		
	SVTO	22	0604	0604	0613	S12	W73	6545	03	16.7	9	SF		2	E		75		F
0434	LEAR	22	0629	0631	0657	S11	E74	6558	03	27.8	28	SF		3	E		22		F
0435		22	08101	08102	0835	S12	E20	6556	03	23.8	25	SF					80	1.9	DF
	LEAR	22	0810	0810	0844	S07	E21	6556	03	23.9	34	SF		3	E		26		F
	LEAR	22	0810	0812	0826	S17	E19	6556	03	23.8	16	SF		3	E		38		
	ABST	22	0811	0812	0815D	S13	E20	6556	03	23.8	4D	SF			P	0812	175	1.9	D
0436		22	0830*	0838*	0943	S23	E32	6555	03	24.8	73	1B	M 6.3				170	2.5	DEFHIKUV
	LEAR	22	0830	0838	0924	S25	E35	6555	03	25.1	54	1B	M 6.3	3	E		125		FH
	LEAR	22	0830	0914	0924	S25	E35	6555	03	25.1	54	SB			E		70		K
	URUM	22	0835E	0840	0920	S26	E34	6555	03	25.0	45D	1B			C		193	2.5	E
	ISTA	22	0836		1010	S24	E37	6555	03	25.2	94	1B			P				I
	ABST	22	0837	0851	0916D	S27	E36	6555	03	25.2	39D	SN			P	0851	122	1.6	F
	SVTO	22	0839E	0839U	1002	S22	E34	6555	03	25.0	83D	1B		2	E		115		UF
	YUNN	22	0839E	0855	0920	S26	E36	6555	03	25.1	41D	1N			P		236	3.1	
	SVTO	22	0839E	0912	1002	S22	E34	6555	03	25.0	83D	1B			E		119		K
	ATHN	22	0840E	0845	0910	S26	E38	6555	03	25.3	30D	2B		2	V	0845	446	6.0	
	URUM	22	0901	0911	0924	S22	E32	6555	03	24.8	23	SN			C		80	1.0	E
	HTPR	22	0903E		0915D	S20	E32	6555	03	24.8	12D	1N			C	0907	250	3.2	F
	ABST	22	0903	0904	0916D	S25	E33	6555	03	24.9	13D	SN			P	0904	96	1.2	DV
	ISTA	22	0906		1010	S20	E30	6555	03	24.7	64	1B			P				D
	LEAR	22	0928	0939	1009	S23	E25	6555	03	24.3	41	1B	M 1.0	3	E		119		FH
	ATHN	22	0930	0940	0950	S22	E24	6555	03	24.2	20	1B		2	V	0940	191	2.2	
	ATHN	22	0930	0940	0950	S23	E22	6555	03	24.1	20	1B		2	V	0940	191	2.2	
	YUNN	22	0935E	0948U	0948D	S23	E26	6555	03	24.4	13D	1N			P	0948	204	2.4	F
0437	LEAR	22	0931	0940	1008	S09	E16	6556	03	23.6	37	SF		3	E		63		F
0438	SVTO	22	1047	1051	1107	S03	W15	6549	03	21.3	20	SF	C 3.7	3	E		46		
0439	SVTO	22	1101	1102	1106	S24	E28	6555	03	24.6	5	SF		3	E		12		
0440	SVTO	22	1124	1127	1132	S12	E73	6558	03	28.0	8	SF		3	E		15		
0441	SVTO	22	1144	1150	1219	S19	E29	6555	03	24.7	35	1B	M 1.3	3	E		156		FZ
0442		22	1313	13141	1320	S10	W80	6545	03	16.5	7	SN	C 4.8				18		D
	SVTO	22	1313	1314	1321	S11	W81	6545	03	16.4	8	SF	C 4.8	3	E		18		
	HTPR	22	1313E	1315	1320	S10	W78	6545	03	16.7	7D	SN			C				D
0443		22	1417*	1430	1437	S19	E30	6555	03	24.9	20	SF					34	0.6	DH
	SVTO	22	1417	1430	1435	S21	E31	6555	03	25.0	18	SF		3	E		17		
	HTPR	22	1428	1430	1436	S15	E28	6555	03	24.7	8	SN			C	1430	50	0.6	DH
	HOLL	22	1428	1430	1440	S22	E31	6555	03	25.0	12	SF		2	E		36		
0444		22	1444*	1503	1534	S20	E26	6555	03	24.6	50	SF					57		FH
	HOLL	22	1444	1503	1543	S20	E27	6555	03	24.7	59	SF		3	E		61		FH
	SVTO	22	1500	1503	1525	S20	E26	6555	03	24.6	25	SF		3	E		53		

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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
0445	HTPR	22	1500	1502	1515	S12	E22	6556	03	24.3	15	SN			C	1502	110	1.2	
0446	HOLL	22	1554	1555	1602	S23	E23	6555	03	24.4	8	SF		3	E		10		
0447	HOLL	22	1555	1558	1606	S10	W78	6545	03	16.8	11	SF		3	E		35		F
		22	1625		1651	No Flare Patrol													
0448	HOLL	22	1707	1709	1738	S14	W09	6550	03	22.0	31	SF		3	E		47		F
		22	1722		1727	No Flare Patrol													
0449	HOLL	22	1729	1739	1743	S25	E21	6555	03	24.3	14	SF		3	E		14		
0450	HOLL	22	1729	1730	1742	S13	E14	6556	03	23.8	13	SF		3	E		11		F
0451	HOLL	22	1746	1812	1828	S25	E24	6555	03	24.6	42	SF		3	E		20		F
0452	HOLL	22	1746	1748	1806	S15	E14	6556	03	23.8	20	1N	C 5.3	3	E		148		EF
0453	HOLL	22	1748	1752	1800	S16	E71	6558	03	28.1	12	SF		3	E		39		F
0454	HOLL	22	1829	1836	1847	S21	E27	6555	03	24.8	18	SF		3	E		35		F
0455		22	1903	1914*	2153	S27	E23	6555	03	24.6	170	1B	M 2.5				171		FHK
	HOLL	22	1903	1914	2153	S27	E23	6555	03	24.6	170	1B			E		99		K
	HOLL	22	1903	2017	2153	S27	E23	6555	03	24.6	170	1B	M 2.5	3	E		243		FH
0456	HOLL	22	2052	2056	2104	S14	W80	6545	03	16.8	12	SF		3	E		17		H
0457		22	2126	2130*	2229	S13	W11	6550C	03	22.1	63	1N					98		FK
	HOLL	22	2126	2130	2229	S13	W11	6550C	03	22.1	63	SN			E		81		K
	HOLL	22	2126	2144	2229	S13	W11	6550C	03	22.1	63	1N		3	E		114		F
0458	HOLL	22	2243	2245	2317	S26	E28	6555	03	25.1	34	3B	X 9.4	3	E				HM
0459	YUNN	23	0130	0155U	0215	S24	E14	6555	03	24.1	45	1N			P	0155	314	3.5	F
0460		23	0151	0154	0212	S12	E64	6558	03	27.9	21	1N					124	2.0	F
	WATU	23	0151	0154	0204	S11	E64	6558	03	27.9	13	SF			C	0154	90	2.0	F
	YUNN	23	0152E	0201U	0221	S14	E64	6558	03	27.9	29D	1N			P	0201	157		
0461		23	0219*	0311*	0535	S21	E13	6555	03	24.1	196	2B					1261	13.6	EFIJK
	WATU	23	0219	0410	0539D	S19	E11	6555	03	23.9	200D	3B			C	0410	1460	15.5	EFIJK
	YUNN	23	0246	0311	0515	S24	E19	6555	03	24.6	149	1N			C		393	4.5	F
	URUM	23	0247	0400	0555	S21	E08	6555	03	23.7	188	3B			C		1929	20.7	F
0462		23	0237	0310*	0518	S12	E04	6556	03	23.4	161	3N					1001	12.3	EF
	YUNN	23	0237	0310	0518	S15	E05	6556	03	23.5	161	2N			C		1179	12.3	F
	LEAR	23	0305E	0359	0623D	S10	E03	6556	03	23.3	198D	3N		3	E		823		FE
0463	LEAR	23	0348E	0356U	0417	S02	W24	6549	03	21.4	29D	SF		3	E		46		
0464		23	04113	04207	0457	N14	E27	6559	03	25.2	46	SN					103	1.2	EF
	URUM	23	0411	0420	0511	N14	E27	6559	03	25.2	60	SB			C		113	1.4	E
	WATU	23	0412	0427	0446	N13	E27	6559	03	25.2	34	SN			C	0427	90	1.1	F
	YUNN	23	0414	0421	0507	N14	E25	6559	03	25.1	53	SN			C		79	1.0	E
	LEAR	23	0414E	0422	0444	N14	E28	6559	03	25.3	30D	1F		3	E		130		FE
0465		23	0455E		0618D	S17	E06	6556	03	23.7	83D	3B					2448	26.0	FIJZ
	TACH	23	0455E		0618D	S17	E09	6556	03	23.9	83D	4B		2	C	0511	4366	46.5	IZJ
	MITK	23	0558E		0604D	S17	E02	6556	03	23.4	6D	2N			P	0600	530	5.6	FIJ
0466		23	0507	0511	0522	S21	E18	6555	03	24.6	15	1B	M 6.8				275	1.9	DF
	TACH	23	0507	0511	0525	S20	E22	6555	03	24.9	18	1B		2	C	0511	275	3.1	D
	URUM	23	0509E	0511	0520	S20	E21	6555	03	24.8	11D	SB			C		64	0.7	D
	LEAR	23	0510E	0510U	0623D	S24	E11	6555	03	24.1	73D	2B	M 6.8	3	E		486		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	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0467		23	07263	0730	0745	N14	W67	6553	03	18.2	19	SN					49		D
	YUNN	23	0725E	0730	0742	N15	W67	6553	03	18.2	17D	SN			P		47		
	LEAR	23	0726	0729U	0753	N13	W68	6553	03	18.2	27	SF		3	E		84		
	URUM	23	0729	0730	0740	N13	W66	6553	03	18.3	11	SN			C		16		D
0468	LEAR	23	0738	0752U	0941	S23	E01	6555	03	23.4	123	1F		3	E		125		F
0469		23	10012	10055	1016	S02	W28	6549	03	21.3	15	1N					134	2.1	E
	SVTO	23	1001	1010	1023	S02	W27	6549	03	21.4	22	SF		3	E		91		
	URUM	23	1003	1005	1010	S02	W28	6549	03	21.3	7	1N			C		177	2.1	E
0470	SVTO	23	1113	1121	1201	N12	W68	6553	03	18.3	48	SF	M 1.3	3	E		34		H
0471	SVTO	23	1229	1242	1305	S20	E14	6555	03	24.6	36	1B	M 6.8	3	E		239		FH
		23	1334		1349	No Flare Patrol													
		23	1357		1405	No Flare Patrol													
0472	SVTO	23	1437	1442	1445	S25	E20	6555	03	25.1	8	SF	C 6.8	2	E		23		F
		23	1446		1517	No Flare Patrol													
		23	1538		1545	No Flare Patrol													
		23	1549		1551	No Flare Patrol													
		23	1621		1625	No Flare Patrol													
0473		23	1640	16457	1707	S28	E18	6555	03	25.1	27	SN	C 7.5				36		FK
	HOLL	23	1640	1645	1707	S28	E18	6555	03	25.1	27	SN	C 7.5	2	E		42		F
	HOLL	23	1640	1652	1707	S28	E18	6555	03	25.1	27	SN			E		31		K
0474	HOLL	23	1726	1727	1743	S25	E11	6555	03	24.6	17	SF	C 5.8	3	E		32		EF
0475	HOLL	23	1751	1753	1807	S15	E57	6558	03	28.0	16	SF		3	E		25		
0476	HOLL	23	1758	1758	1807	S22	E06	6555	03	24.2	9	SF		3	E		24		F
0477		23	18142	1816	1844	S26	E17	6555	03	25.1	30	SB	C 8.8				43		F
	HOLL	23	1814	1823U	1839	S27	E17	6555	03	25.1	25	SB		2	E		53		F
	RAMY	23	1816	1816	1850	S26	E17	6555	03	25.1	34	SN	C 8.8	3	E		33		F
0478		23	1853E	1908U	2200D	S27	E17	6555	03	25.1	187D	SN	M 1.5				64		EF
	RAMY	23	1853E	1908U	1953D	S26	E17	6555	03	25.1	60D	SN	M 1.5	3	E		42		
	HOLL	23	1917E	1918U	2200D	S28	E17	6555	03	25.1	163D	SN	M 1.6	2	E		86		FE
0479	HOLL	23	1958E	2000U	2100D	S16	E56	6558	03	28.1	62D	SF		2	E		52		F
0480	RAMY	23	2015	2016	2018	S22	E05	6555	03	24.2	3	SF		3	E		26		
0481		23	2044	2104	2118	S24	E10	6555	03	24.6	34	1F	M 5.6				44		EF
	RAMY	23	2044	2104	2118	S27	E15	6555	03	25.0	34	SF		3	E		41		
	HOLL	23	2218E	2218U	2300D	S22	E04	6555	03	24.2	42D	1F	M 5.6	2	E		48		FE
		23	2204		2216	No Flare Patrol													
0482	HOLL	23	2230	2233U	2308	S16	E53	6558	03	27.9	38	SF		3	E		19		
		23	2236		2251	No Flare Patrol													
0483		23	2305	23068	2418	S26	E06	6555	03	24.4	73	1N					313	4.7	EFIJTU
	HOLL	23	2305	2306	2421D	S22	E03	6555	03	24.2	76D	1B		2	E		151		UF
	VORO	23	2305	2314	2407	S29	E07	6555	03	24.5	62	1F			C	2314	430	4.7	EIJT
	LEAR	23	2310E	2313	2430	S27	E07	6555	03	24.5	80D	2B		3	E		357		F
0484		23	2307*	2314*	2437	S14	W04	6556	03	23.7	90	1F					152	2.4	EFIJT
	VORO	23	2307	2314	2433	S14	W04	6556	03	23.7	86	1F			C	2314	233	2.4	EIJT
	LEAR	23	2334	2336	2441	S14	W05	6556	03	23.6	67	SF		3	E		72		F
0485	LEAR	23	2359	2408	2417	S16	E62	6558	03	28.7	18	1F		3	E		106		F
0486	LEAR	24	0004	0015	0045	S06	W35	6549	03	21.4	41	SF		3	E		47		

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0487		24	0010*	0014*	0211	S18	W28	6550A	03	21.9	121	3N	M 2.1				1090	17.4	EFGHJKLT
	LEAR	24	0010	0014	0215	S17	W30	6550A	03	21.7	125	2N			E		201		K
	LEAR	24	0010	0033	0215	S17	W30	6550A	03	21.7	125	3N		3	E		748		FE
	VORO	24	0010	0048	0300D	S21	W20	6550A	03	22.5	170D	4F			C	0048	3253	38.3	EHGJLTU
	WATU	24	0040		0214	S17	W28	6550A	03	21.9	94	2B			P	0040	990	11.8	FHU
	MITK	24	0050E		0105D	S18	W27	6550A	03	22.0	15D	2N			P	0100	450	5.3	F
	PEKG	24	0050E	0105	0150	S18	W30	6550A	03	21.7	60D	2N			P	0105	757	9.1	E
	YUNN	24	0052E	0055U	0220	S17	W29	6550A	03	21.8	88D	3N			P	0055	1886	22.5	U
	HOLL	24	0055E	0055U	0111D	S17	W29	6550A	03	21.8	16D	2F	M 2.1	2	E		438		UF
0488	VORO	24	0035	0038	0106	S20	E08	6555	03	24.6	31	SF			C	0038	99	1.0	DIJT
0489	LEAR	24	0054	0054	0058	S16	E52	6558	03	28.0	4	SF		3	E		21		
0490		24	0238*	0242*	0348	S14	E52	6558	03	28.0	70	1N	M 3.2				199	3.1	DEFK
	PALE	24	0238	0244	0417	S13	E50	6558	03	27.9	99	2N		3	E		297		FE
	PEKG	24	0238	0245	0310	S13	E53	6558	03	28.1	32	1B			C	0245	210	3.6	D
	PALE	24	0238	0333	0417	S13	E50	6558	03	27.9	99	SN			E		68		K
	LEAR	24	0239	0244	0421	S15	E51	6558	03	28.0	102	2B	M 3.2	3	E		365		
	LEAR	24	0239	0254	0421	S15	E51	6558	03	28.0	102	2B			E		230		K
	LEAR	24	0239	0344	0421	S15	E51	6558	03	28.0	102	2B			E		156		K
	VORO	24	0240	0242	0259	S15	E53	6558	03	28.1	19	1F			C	0242	170	2.8	E
	WATU	24	0241	0243	0257	S13	E50	6558	03	27.9	16	1N			C	0243	130	2.1	F
	YUNN	24	0244E	0244U	0303	S14	E51	6558	03	28.0	19D	2N			P	0244	393	6.4	
	YUNN	24	0327	0342U	0408	S15	E51	6558	03	28.0	41	1N			P	0342	157	2.5	F
	PEKG	24	0330	0345	0400	S16	E58	6558	03	28.5	30	1F			C	0345	168	3.2	E
	URUM	24	0340	0344	0357D	S17	E56	6558	03	28.4	17D	SN			C		48	0.9	E
0491		24	03032	03051	0309	S27	E09	6555	03	24.8	6	SN					100	1.3	DH
	YUNN	24	0303	0306	0306D	S26	E09	6555	03	24.8	3D	SN			P		157	1.7	
	WATU	24	0304	0305	0309	S27	E09	6555	03	24.8	5	SF			C	0305	80	0.9	H
	PEKG	24	0304	0306	0310	S27	E10	6555	03	24.9	6	SB			C	0306	126	1.4	D
	PALE	24	0305	0305	0309	S27	E09	6555	03	24.8	4	SF		3	E		37		H
0492		24	0313*	0324*	0400	N13	E13	6559C	03	25.1	47	SF					119	1.8	E
	LEAR	24	0313	0340	0434	N13	E13	6559C	03	25.1	81	SF		3	E		42		
	PEKG	24	0316	0324	0345	N13	E14	6559C	03	25.2	29	SF			P	0324	126	1.4	E
	YUNN	24	0323	0325	0340	N13	E13	6559C	03	25.1	17	1N			C		189	2.1	
0493		24	04013	04083	0425	S27	E04	6555	03	24.5	24	SF					44	0.9	EF
	YUNN	24	0401	0410U	0420	S26	E04	6555	03	24.5	19	SN			P	0410	79	0.9	E
	LEAR	24	0402	0411	0429	S29	E04	6555	03	24.5	27	SF		3	E		38		
	PALE	24	0404	0408	0427	S27	E05	6555	03	24.5	23	SF		3	E		15		F
0494	LEAR	24	0409	0420	0439	S14	W28	6550	03	22.0	30	SF		3	E		20		
0495	YUNN	24	0435	0502	0537	S16	W43	6550	03	20.9	62	SN			C		24	0.3	
0496		24	04592	05091	0532	S26	W02	6555	03	24.0	33	SN	C 6.1				63	0.7	E
	PEKG	24	0459	0510	0527	S25	W03	6555	03	24.0	28	SN			C	0510	84	0.9	E
	LEAR	24	0501	0509	0550	S26	W02	6555	03	24.0	49	SF	C 6.1	3	E		56		
	URUM	24	0501	0510	0524	S27	W01	6555	03	24.1	23	SN			C		32	0.4	E
	YUNN	24	0501E	0514U	0529	S25	W02	6555	03	24.0	28D	SN			P	0514	79	0.9	E
0497		24	05052	05091	0526	S13	W30	6550	03	21.9	21	SN					93	1.2	EF
	YUNN	24	0505	0515U	0527	S13	W29	6550	03	22.0	22	SN			P	0515	31	0.4	E
	LEAR	24	0507	0509	0531	S13	W30	6550	03	21.9	24	SF		3	E		88		F
	URUM	24	0510E	0510	0520	S13	W31	6550	03	21.9	10D	SN			C		161	1.9	E
0498	PEKG	24	0554	0556	0601	S22	E09	6555	03	24.9	7	SF			C	0556	42	0.4	D
0499	YUNN	24	0837	0845	0856	S26	W02	6555	03	24.2	19	SN			C		157	1.7	E
0500		24	0925*	10203	1056	S26	E06	6555	03	24.8	91	2B					368	5.7	FH
	SVTO	24	0925	1023	1118	S26	E02	6555	03	24.5	113	1N		4	E		227		FH
	ATHN	24	1010	1020	1035	S26	E11	6555	03	25.3	25	2B		3	V	1020	509	5.7	
0501		24	12281	12335	1253	S26	E02	6555	03	24.7	25	SF					24		F
	SVTO	24	1228	1238	1253	S26	E02	6555	03	24.7	25	SF		4	E		24		F
	KANZ	24	1229	1233	1241D	S25	E02	6555	03	24.7	12D	SF			V				

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0502		24	12347	1246	1310	S12	E46	6558	03	28.0	36	SF					62		F
	SVTO	24	1234	1246	1318	S13	E48	6558	03	28.1	44	SF		4	E		62		F
	KANZ	24	1241	1249U	1303	S11	E45	6558	03	27.9	22	SF			V				
0503		24	1354*	1412*	1454	S25	W00	6555	03	24.6	60	1N	M 3.7				184		EFK
	SVTO	24	1354	1418	1502	S26	E00	6555	03	24.6	68	2B	M 3.7	4	E		280		FE
	RAMY	24	1357	1412	1442	S26	W01	6555	03	24.5	45	1N			E		124		K
	RAMY	24	1357	1416	1442	S26	W01	6555	03	24.5	45	1N	M 3.7	3	E		220		F
	HOLL	24	1403E	1418	1430D	S27	W01	6555	03	24.5	27D	2B		2	E		262		F
	RAMY	24	1459	1507	1512	S20	E02	6555	03	24.8	13	SF		3	E		33		
0504		24	14122	14181	1443	S15	W13	6556	03	23.6	31	SF					25		F
	SVTO	24	1412	1419	1504	S15	W13	6556	03	23.6	52	SF		3	E		34		
	HOLL	24	1413	1418	1430D	S12	W12	6556	03	23.7	17D	SF		3	E		27		F
	RAMY	24	1414	1419	1422	S19	W13	6556	03	23.6	8	SF		3	E		14		
0505		24	14174	14224	1442	S13	E46	6558	03	28.1	25	SF					47		F
	SVTO	24	1417	1426	1447	S12	E45	6558	03	28.0	30	SF		4	E		60		F
	HOLL	24	1420	1422	1430D	S15	E46	6558	03	28.1	10D	SF		3	E		60		F
	RAMY	24	1421	1426	1436	S13	E46	6558	03	28.1	15	SF		3	E		20		
0506		24	1536	1540*	1558	S20	E49	6558	03	28.4	22	SF					20		FK
	HOLL	24	1536	1540	1558	S20	E49	6558	03	28.4	22	SF			E		14		K
	HOLL	24	1536	1552	1558	S20	E49	6558	03	28.4	22	SF		3	E		27		F
0507	HOLL	24	1610E	1614U	1619D	N15	W83	6553	03	18.4	9D	SF		2	E		44		
0508	HOLL	24	1624E	1633U	1653D	S11	E19	6560	03	26.1	29D	SF		1	E		22		
0509		24	17171	17187	1741	S23	W06	6555	03	24.2	24	SF	C 5.0				78		EFK
	HOLL	24	1717	1721	1747	S23	W06	6555	03	24.2	30	SN		2	E		89		FE
	HOLL	24	1717	1725	1747	S23	W06	6555	03	24.2	30	SF			E		96		K
	RAMY	24	1718	1718	1730	S22	W06	6555	03	24.2	12	SF	C 5.0	3	E		48		F
0510		24	1817*	1826*	1901	S26	W06	6555	03	24.3	44	SF					50		EF
	HOLL	24	1817	1841	1857	S25	W10	6555	03	24.0	40	SN		3	E		81		FE
	RAMY	24	1819	1826	1858	S26	W03	6555	03	24.5	39	SF		3	E		46		F
	RAMY	24	1904	1904	1909	S27	W04	6555	03	24.5	5	SF		3	E		22		
0511		24	18592	1904	1912	S10	E20	6560	03	26.3	13	SF					40		
	HOLL	24	1859	1904	1915	S11	E20	6560	03	26.3	16	SF		3	E		53		
	RAMY	24	1901	1904	1910	S09	E19	6560	03	26.2	9	SF		3	E		28		
0512		24	19182	19212	1928	S24	E05	6555	03	25.2	10	SN					27		
	RAMY	24	1918	1923	1926	S22	E02	6555	03	24.9	8	SN		3	E		39		
	HOLL	24	1920	1921	1930	S27	E08	6555	03	25.4	10	SF		3	E		15		
0513		24	19371	19426	2032	S15	E44	6558	03	28.1	55	2B	M 1.4				233		FK
	HOLL	24	1937	1944	2039	S15	E45	6558	03	28.2	62	2B	M 1.4	3	E		337		F
	HOLL	24	1937	1948	2039	S15	E45	6558	03	28.2	62	2B			E		267		K
	RAMY	24	1938	1942	2019	S14	E42	6558	03	28.0	41	SN		3	E		96		F
0514	HOLL	24	2051	2057	2111	S10	E18	6560	03	26.2	20	SF		3	E		20		
0515		24	2305*	2306*	2326	S26	W01	6555	03	24.9	21	1N	C 2.9				144	2.5	EFIJTU
	HOLL	24	2233E	2233U	2307D	S25	W06	6555	03	24.5	34D	SF	C 2.9	2	E		37		
	HOLL	24	2305	2306	2421D	S22	E03	6555	03	25.2	76D	1B		2	E		151		UF
	VORO	24	2315	2318	2326	S30	W00	6555	03	25.0	11	1F			C	2318	244	2.5	EIJT
0516	LEAR	24	2311	2318	2347	N14	W81	6553	03	18.8	36	SF		3	E		52		
0517	VORO	25	0022E		0101	S27	E31	6557	03	27.4	39D	SN			C	0022	103	1.1	EIJT
0518		25	0007*	0019	0100	S25	E01	6555	03	25.1	53	1B	X 1.1				296	5.7	FI
	LEAR	25	0007	0019	0103	S26	E01	6555	03	25.1	56	1B	X 1.1	3	E		202		F
	WATU	25	0028		0058	S24	E01	6555	03	25.1	30	2N			C	0028	530	5.7	FI
	PALE	25	0030E	0032U	0034D	S25	E02	6555	03	25.2	4D	1B		3	E		157		
0519	YUNN	25	0227	0311	0330	N13	W88	6553	03	18.5	63				C				A

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0520		25	0316	03099	0324	S28	W02	6555	03	25.0	8	SN					100	1.1	D
	YUNN	25	0305E	0309	0323	S27	W03	6555	03	24.9	18D	SN			P		157	1.7	
	PEKG	25	0316	0318	0325	S28	W02	6555	03	25.0	9	SF			C	0318	42	0.5	D
0521	TACH	25	0412	0412	0418	S13	E39	6558	03	28.1	6	SB		2	C	0412	61	0.8	EJ
0522		25	04273	04358	0452	S16	E42	6558	03	28.4	25	SN					49	0.7	DEJ
	PEKG	25	0427	0435	0448	S17	E43	6558	03	28.4	21	SF			P	0435	42	0.6	D
	TACH	25	0430	0443	0456	S16	E40	6558	03	28.2	26	SB		2	C	0443	56	0.8	EJ
0523		25	04373	04392	0446	S26	W06	6555	03	24.7	9	SN	C 2.9				44	0.7	DZ
	TACH	25	0437	0439	0445	S24	W06	6555	03	24.7	8	SB		2	C	0439	61	0.7	DZ
	LEAR	25	0440	0441	0447	S28	W06	6555	03	24.7	7	SF	C 2.9	3	E		26		
0524	YUNN	25	0514	0602	0658	N14	W88	6553	03	18.6	104				C				A
0525		25	05247	05326	0604	S26	W09	6555	03	24.5	40	1N	M 1.5				305	3.7	EFZ
	URUM	25	0524	0538	0555D	S28	W09	6555	03	24.5	31D	1B			C		402	4.5	E
	YUNN	25	0527	0532	0602D	S26	W09	6555	03	24.5	35D	1N			P		362	4.0	F
	TACH	25	0527	0532	0602	S23	W09	6555	03	24.5	35	1F		2	C	0532	316	3.4	EZ
	LEAR	25	0527	0535	0610	S27	W10	6555	03	24.4	43	1B	M 1.5	3	E		174		
	PEKG	25	0530	0538	0610	S27	W09	6555	03	24.5	40	1B			P	0538	378	4.2	E
	WATU	25	0531	0537	0552	S27	W10	6555	03	24.4	21	1F			C	0537	200	2.2	F
0526		25	08022	08105	0836	S26	W03	6555	03	25.1	34	2B	X 5.3				1026	13.0	FHI
	SVTO	25	0801E	0811	0839	S25	W03	6555	03	25.1	38D	1B	X 5.3	2	E		224		FH
	YUNN	25	0801E	0812U	0838	S27	W03	6555	03	25.1	37D	3B			P	0812	1886	20.8	F
	ATHN	25	0802	0815	0825	S23	W02	6555	03	25.2	23	2B		3	V	0815	700	7.5	
	WATU	25	0804	0810	0829	S28	W03	6555	03	25.1	25	2B			C	0810	960	10.6	FI
	ABST	25	0804	0811	0837	S27	W05	6555	03	24.9	33	1N			C	0811	454	5.0	F
	URUM	25	0805E	0814	0845	S27	W04	6555	03	25.0	40D	3B			C		1929	21.2	F
0527		25	09351	0938	0959	S25	W11	6555	03	24.5	24	SF	C 4.6				36		F
	LEAR	25	0935	0938	1015D	S25	W12	6555	03	24.5	40D	SF	C 4.6	3	E		43		
	SVTO	25	0936	0938	0959	S25	W11	6555	03	24.5	23	SF		2	E		30		F
	KANZ	25	1002E		1020D	S25	W11	6555	03	24.6	18D	SF			C				
0528		25	1124*	1125*	1230	S23	W12	6555	03	24.5	66	SN	C 8.3				48		FK
	RAMY	25	1124	1125	1218	S24	W13	6555	03	24.5	54	SN			E		19		K
	RAMY	25	1124	1142	1218	S24	W13	6555	03	24.5	54	SN	C 8.3	3	E		54		
	SVTO	25	1156E	1156U	1243D	S23	W13	6555	03	24.5	47D	SF		2	E		87		F
	RAMY	25	1248	1250	1254	S20	W10	6555	03	24.8	6	SN		3	E		30		
0529	SVTO	25	1156E	1203U	1241D	S16	W20	6556	03	24.0	45D	SF		2	E		44		
0530		25	1337	13391	1350	S16	E36	6558	03	28.3	13	SF	C 1.8				28		F
	SVTO	25	1337	1339	1355	S15	E36	6558	03	28.3	18	SF	C 1.8	3	E		41		F
	RAMY	25	1337	1340	1345	S16	E36	6558	03	28.3	8	SF		3	E		15		
0531	SVTO	25	1426	1432	1457	S11	E10	6560	03	26.3	31	SF		3	E		25		F
0532		25	14283	14333	1450	S25	W10	6555	03	24.8	22	SF	C 7.9				89		F
	RAMY	25	1428	1433	1447	S24	W06	6555	03	25.1	19	SF		3	E		71		F
	SVTO	25	1431	1436	1452	S27	W10	6555	03	24.8	21	1F	C 7.9	3	E		133		F
	HOLL	25	1432E	1433U	1452D	S24	W13	6555	03	24.6	20D	SF		2	E		63		F
0533		25	15441	15451	1602	N14	W06	6559C	03	25.2	18	SF					34		F
	HOLL	25	1544	1545	1609D	N13	W05	6559C	03	25.3	25D	SF		2	E		28		F
	RAMY	25	1545	1546	1602	N14	W06	6559C	03	25.2	17	SF		3	E		41		F
0534		25	1546	1548	1602	S27	W11	6555	03	24.8	16	SF	C 9.0				90		EF
	SVTO	25	1546	1548	1601	S27	W12	6555	03	24.7	15	SF		3	E		77		F
	RAMY	25	1546	1548	1602	S27	W11	6555	03	24.8	16	1N	C 9.0	3	E		122		F
	HOLL	25	1551E	1552U	1609D	S28	W11	6555	03	24.8	18D	SF		2	E		70		FE
		25	1923		2050	No Flare Patrol													
0535	HOLL	25	2051E	2051U	2105	S18	E32	6558	03	28.3	14D	SF		2	E		68		F
		25	2105		2119	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	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		25	2139		2148	No Flare Patrol													
0536	HOLL	25	2150E	2211	2253D	S01	W62	6549	03	21.3	63D	1N	C 6.3	3	E		158		F
0537	HOLL	25	2216	2219	2227	S24	W10	6555	03	25.1	11	SF		3	E		20		
0538	VORO	25	2256E	2259	2340	N03	W64	6549	03	21.2	44D	1F			C	2259	170	3.9	EG
0539	VORO	26	0031	0035	0043	S24	W12	6555	03	25.1	12	SF			C	0035	72	0.8	DIJ
0540	VORO	26	0106	0145	0222	S28	W15	6555	03	24.9	76	1F			C	0145	314	3.5	EHIJK
0541	YUNN	26	0250E	0250U	0254	S25	W10	6555	03	25.3	4D	SN			P	0250	16	0.2	E
0542		26	0315	03172	0327	S24	W12	6555	03	25.2	12	SN					92	1.0	E
	YUNN	26	0312E	0319	0330	S24	W10	6555	03	25.4	18D	SN			P		31	0.3	E
	TACH	26	0315	0317	0324	S24	W14	6555	03	25.0	9	SN		2	C	0317	153	1.7	E
0543		26	03503	04059	0433	S18	E28	6558	03	28.3	43	SN					62	0.8	D
	TACH	26	0350	0405	0424	S18	E24	6558	03	28.0	34	SF		2	C	0405	76	0.9	D
	YUNN	26	0353	0414	0442	S19	E31	6558	03	28.5	49	SN			C		47	0.6	
0544		26	0807*	0814*	0827	S25	W16	6555	03	25.1	20	SF	C 2.4				141	1.9	E
	HTPR	26	0807	0814	0816	S25	W13	6555	03	25.3	9	1F			C	0814	200	2.2	
	YUNN	26	0808E	0808U	0812D	S24	W12	6555	03	25.4	4D	SN			P	0808	126	1.4	
	ABST	26	0810	0825	0831	S22	W15	6555	03	25.2	21	SF			C	0825	175	1.9	E
	SVTO	26	0819	0824	0830	S27	W26	6555	03	24.3	11	SF	C 2.4	3	E		23		
	HTPR	26	0820	0825	0830	S25	W13	6555	03	25.3	10	SN			C	0825	180	2.0	
0545		26	09233	09294	0944	S27	W21	6555	03	24.7	21	SN	C 2.8				99	1.9	F
	HTPR	26	0923		0945	S27	W20	6555	03	24.8	22	SN			C	0935	170	1.9	
	LEAR	26	0924	0929	0947	S24	W27	6555	03	24.3	23	SN	C 2.8	3	E		76		F
	SVTO	26	0926	0933	0941	S29	W17	6555	03	25.1	15	SF		3	E		52		
0546	RAMY	26	1235	1236	1241	S24	W26	6555	03	24.5	6	SF	C 2.0	3	E		17		
0547		26	1350	1404*	1435	S24	W20	6555	03	25.0	45	SN					64		FHK
	RAMY	26	1350	1404	1435	S24	W20	6555	03	25.0	45	SN		3	E		41		FH
	RAMY	26	1350	1422	1435	S24	W20	6555	03	25.0	45	SN			E		88		K
0548	RAMY	26	1409	1416	1418	S11	E20	6558	03	28.1	9	SF	C 3.2	3	E		20		
0549	RAMY	26	1614	1627	1656	S22	W30	6555	03	24.4	42	SF	M 1.0	4	E		41		F
0550	HOLL	26	2011	2015	2024	S22	W34	6555	03	24.2	13	SF	C 3.3	3	E		28		F
0551		26	2026	20348	2137D	S26	W26	6555	03	24.8	71D	3N	X 4.7				557		EFHMU
	HOLL	26	2026	2034	2137D	S28	W23	6555	03	25.0	71D	4B	X 4.7	3	E				MU
	PALE	26	2041E	2042	2102D	S28	W23	6555	03	25.1	21D	2N		3	E		557		EH
	RAMY	26	2045E	2045U	2049D	S22	W33	6555	03	24.3	4D	3F		3	E				FH
		26	2121		2125	No Flare Patrol													
		26	2142		2158	No Flare Patrol													
0552	HOLL	26	2202	2209	2223	S14	E14	6558	03	28.0	21	SF	C 2.3	3	E		24		F
		26	2242		2400	No Flare Patrol													
		27	0000		0025	No Flare Patrol													
		27	0040		0059	No Flare Patrol													
		27	0236		0244	No Flare Patrol													
		27	0407		0414	No Flare Patrol													
0553		27	0514E	0516	0547	S26	W32	6555	03	24.7	33D	1B					170	2.2	EF
	TACH	27	0514E		0557D	S27	W34	6555	03	24.6	43D	1B		1	C	0514	260	3.4	F
	YUNN	27	0515E	0516	0547	S26	W31	6555	03	24.8	32D	SN			P		79	1.0	E
0554	YUNN	27	0631	0645U	0716	S21	W40	6555	03	24.2	45	SN			P	0645	31	0.4	
0555	SVTO	27	0743	0744	0749	S24	W03	6557	03	27.1	6	SF		3	E		14		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	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
0556		27	0815*	0820*	0845	S25	W32	6555	03	24.9	30	SN					66	0.8	
	HTPR	27	0815	0820	0830	S23	W32	6555	03	24.9	15	SF			C	0820	115	1.5	
	YUNN	27	0827	0836	0900	S27	W32	6555	03	24.8	33	SN			C		16	0.2	
0557	HTPR	27	0820		0840D	S10	W80		03	21.3	20D	1N			C				AE
0558	SVTO	27	0915	0931	1013	S29	W33	6555	03	24.8	58	SF		3	E		39		F
		27	1156		1200	No Flare Patrol													
0559	RAMY	27	1241	1241	1248	S24	W39	6555	03	24.5	7	SF	C 2.3	3	E		22		F
0560		27	14515	14561	1521	S12	E08	6558	03	28.2	30	SF	C 2.0				34		FU
	HOLL	27	1451	1456	1528	S12	E08	6558	03	28.2	37	SF	C 2.0	4	E		54		UF
	RAMY	27	1456	1457	1514	S12	E08	6558	03	28.2	18	SF		3	E		15		F
0561	HOLL	27	1559	1605	1615	S19	W50	6555	03	23.8	16	SF	C 2.6	4	E		25		F
0562		27	17523	1757*	1823	S27	W38	6555	03	24.8	31	1N	C 3.1				92		EFHK
	HOLL	27	1752	1757	1824	S26	W37	6555	03	24.9	32	1N	C 3.1	3	E		142		FE
	HOLL	27	1752	1809	1824	S26	W37	6555	03	24.9	32	1N			E		117		K
	RAMY	27	1754	1757	1819	S27	W39	6555	03	24.7	25	SF		4	E		74		FH
	PALE	27	1755	1808U	1826	S28	W38	6555	03	24.8	31	SF		3	E		37		F
0563	HOLL	27	1952	1954	1958	S22	W45	6555	03	24.4	6	SF		3	E		30		
0564	HOLL	27	2007	2008	2013	S22	W56	6555	03	23.5	6	SF		3	E		34		
0565		27	2100*	21205	2259	S17	W08	6558	03	27.3	119	SF					89		F
	HOLL	27	2100	2122	2327D	S16	W09	6558	03	27.2	147D	1N		3	E		183		F
	PALE	27	2117	2120	2259	S17	W07	6558	03	27.3	102	SF		3	E		38		
	RAMY	27	2118	2125	2209D	S17	W08	6558	03	27.3	51D	SF		4	E		47		F
0566	HOLL	27	2138	2151	2155	N17	W30	6559	03	25.6	17	SF		3	E		19		F
0567		27	2202*	2212*	2329	S26	W44	6555	03	24.5	87	SN	M 2.1				125	4.5	EIJKT
	HOLL	27	2202	2212	2327D	S24	W47	6555	03	24.3	85D	1B	M 2.1	3	E		119		
	HOLL	27	2202	2307	2327D	S24	W47	6555	03	24.3	85D	SB			E		68		K
	PALE	27	2209E	2214	2254	S24	W46	6555	03	24.4	45D	SF		3	E		63		
	PALE	27	2316	2331	2339	S28	W41	6555	03	24.8	23	SF		3	E		24		
	VORO	27	2319E	2324	2354	S28	W40	6555	03	24.8	35D	1F			C	2324	349	4.5	EIJT
0568	VORO	28	0053	0101	0125	S24	W54	6555	03	23.9	32	1F			C	0101	143	2.5	DIJT
0569	YUNN	28	0334E	0334	0350	S26	W41	6555	03	25.0	16D	SN			P		63	0.9	E
0570	YUNN	28	0601	0605	0619	S26	W48	6555	03	24.5	18	SN			P		47	0.8	
0571	HTPR	28	0800		0815	S28	W90		03	21.3	15	SF			C				
0572		28	08499	09011	0913	S28	W46	6555	03	24.8	24	SN					84	1.2	F
	YUNN	28	0849	0901	0911	S25	W50	6555	03	24.5	22	SN			C		79	1.3	F
	HTPR	28	0858	0902	0915	S30	W42	6555	03	25.1	17	SF			C	0902	90	1.1	
0573	HTPR	28	0930		1000	S05	W90		03	21.7	30	1N			C				
0574		28	15583	1602	1610	S29	W51	6555	03	24.7	12	SF					48	1.0	F
	HTPR	28	1558	1602	1615	S31	W50		03	24.7	17	SF			C	1602	80	1.0	
	RAMY	28	1601	1602	1605	S27	W52	6555	03	24.6	4	SF		3	E		15		F
0575		28	19161	19161	1922	N16	W42	6559	03	25.6	6	SF	C 3.3				12		F
	PALE	28	1916	1916	1923	N16	W42	6559	03	25.6	7	SF	C 3.3	3	E		14		F
	RAMY	28	1917	1917	1920	N17	W43	6559	03	25.5	3	SF		3	E		10		
0576		28	20479	2058	2110	N16	W44	6559	03	25.5	23	SF	C 4.7				27		F
	PALE	28	2047	2059U	2115	N16	W43	6559	03	25.6	28	SF	C 4.7	3	E		40		F
	RAMY	28	2056	2058	2106	N16	W44	6559	03	25.5	10	SF		3	E		14		F

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0577		28	21092	2111*	2204	S28	W50	6555	03	25.0	55	SF	C 3.5				60		F
	PALE	28	2109	2140	2204	S28	W49	6555	03	25.0	55	SF	C 3.5	3	E		95		
	RAMY	28	2111	2111	2147D	S28	W50	6555	03	25.0	36D	SF		3	E		26		F
0578	HOLL	28	2219	2224	2237	S25	W58	6555	03	24.4	18	SF		3	E		48		F
		28	2249		2258	No Flare Patrol													
0579		29	00042	00122	0038	S09	W36	6560	03	26.3	34	SF					90	1.8	EG
	LEAR	29	0004	0014	0037	S09	W37	6560	03	26.2	33	SF		3	E		45		
	VORO	29	0006	0012	0039	S09	W36	6560	03	26.3	33	SF			C	0012	134	1.8	EG
0580	VORO	29	0024	0037	0049D	N17	W50	6559	03	25.2	25D	1F			C	0037	188	3.3	EK
0581		29	02032	02093	0234	N16	W48	6559	03	25.4	31	SN	C 6.0				104	2.4	D
	LEAR	29	0203	0212	0240	N15	W48	6559	03	25.4	37	SN	C 6.0	3	E		67		
	PALE	29	0205	0209	0230	N16	W47	6559	03	25.5	25	SF		3	E		75		
	PEKG	29	0205	0210	0215	N16	W49	6559	03	25.4	10	SF			P	0210	84	1.5	D
	YUNN	29	0209E	0209	0250	N18	W48	6559	03	25.4	41D	1N			P		189	3.3	
0582	URUM	29	0420	0435	0500	N17	W49	6559	03	25.4	40	SN			C		48	0.8	D
0583		29	0526	0551	0620	S27	W60	6555	03	24.5	54	1N	C 4.8				91	1.5	
	LEAR	29	0526	0551	0630	S26	W62	6555	03	24.4	64	1F	C 4.8	3	E		103		
	YUNN	29	0545E	0545U	0610	S28	W57	6555	03	24.8	25D	SN			P	0545	79	1.5	
0584		29	06414	06487	0722	S27	W57	6555	03	24.8	41	2B	X 2.4				528	8.9	EFHIT
	PEKG	29	0641	0655	0710	S27	W56	6555	03	24.9	29	2N			P	0655	378	6.7	E
	LEAR	29	0642	0648	0734	S28	W60	6555	03	24.6	52	3B	X 2.4	3	E		795		F
	YUNN	29	0642	0652	0652D	S26	W57	6555	03	24.8	10D	2B			P		629	12.0	F
	SVTO	29	0642	0653	0733	S27	W52	6555	03	25.2	51	2B		3	E		578		FH
	URUM	29	0644	0655	0725	S27	W60	6555	03	24.6	41	2B			C		305	6.3	F
	WATU	29	0645	0650	0712	S27	W58	6555	03	24.8	27	2N			C	0650	590	11.9	F
	ONDR	29	0700E	0701U	0715	S26	W56	6555	03	24.9	15D	2B			P	0701	420	7.8	FIT
0585		29	09123	09191	0940	N16	W52	6559	03	25.4	28	SN					27	0.3	D
	URUM	29	0912	0920	0935	N16	W53	6559	03	25.4	23	SN			C		16	0.3	D
	SVTO	29	0915	0919	0944	N16	W51	6559	03	25.5	29	SF		3	E		38		
0586	TACH	29	0952E		0959D	N16	E65	6562	04	3.3	7D	2B		1	C	0952	204	6.3	E
0587	URUM	29	1043	1043	1055	S27	W69	6555	03	24.1	12	SN			C		80		E
		29	1107		1111	No Flare Patrol													
0588	SVTO	29	1127	1131	1139	N15	W52	6559	03	25.5	12	SF		3	E		24		
0589		29	1217	1220	1227	N14	E60	6562	04	3.0	10	1F					58		BD
	ABST	29	1216E	1216U	1221D	N14	E62	6562	04	3.2	5D	1F			P	1216	79		BD
	SVTO	29	1217	1220	1227	N14	E58	6562	04	2.9	10	SF		3	E		38		
0590	SVTO	29	1301	1307	1316	N16	E60	6562	04	3.1	15	SF		3	E		23		
0591	HOLL	29	1453	1455	1457	S06	W63	6561	03	24.9	4	SF		3	E		38		
0592	RAMY	29	1519	1519	1527	N13	E61	6562	04	3.2	8	SF		3	E		22		F
0593		29	15232	1526	1531	S19	W62	6555	03	24.9	8	SF					30		H
	HOLL	29	1523	1526	1534	S19	W62	6555	03	24.9	11	SF		3	E		43		
	RAMY	29	1525	1526	1528	S19	W62	6555	03	24.9	3	SF		3	E		18		H
0594	HOLL	29	1917	1917	1947	S08	W47	6560	03	26.3	30	SF		3	E		69		F
0595	HOLL	29	2111	2114	2117	S12	E60	6563	04	3.4	6	SF		3	E		14		F
0596	PALE	29	2125	2128	2133	S10	E60	6563	04	3.4	8	SF		3	E		26		
0597		29	21251	21293	2155	S14	W22	6558	03	28.2	30	SF					22		F
	HOLL	29	2125	2132	2214	S13	W23	6558	03	28.1	49	SF		3	E		33		F
	PALE	29	2126	2129	2136	S15	W21	6558	03	28.3	10	SF		3	E		12		F

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0598	HOLL	29	2157	2200	2215	N13	E54	6562	04	3.0	18	SF		3	E		19		F
0599	HOLL	29	2229	2232	2239	N13	E54	6562	04	3.0	10	SF		3	E		13		F
0600	HOLL	29	2237	2238	2244	S25	W68	6555	03	24.7	7	SF		3	E		20		F
0601	LEAR	30	0231	0250	0331	S10	E55	6563	04	3.2	60	SF		3	E		28		F
0602		30	0259*	0312*	0337	S27	W68	6555	03	24.8	38	SN	M 1.2				103		DEF
	LEAR	30	0259	0321	0340	S26	W64	6555	03	25.1	41	1N	M 1.2	3	E		119		F
	PALE	30	0309	0312	0335D	S27	W71	6555	03	24.6	26D	SF		3	E		92		F
	PEKG	30	0313	0315	0330	S28	W68	6555	03	24.8	17	1N			P	0315	210		D
	URUM	30	0315E	0318	0340	S28	W68	6555	03	24.8	25D	SN			C		48		E
	URUM	30	0320	0324	0337	S28	W69	6555	03	24.7	17	SF			C		48		E
0603		30	0419	0504	0558	S10	W60	6560	03	25.7	99	SF					56		
	LEAR	30	0419	0504	0558	S09	W62	6560	03	25.5	99	SF		3	E		31		
	SVTO	30	0516E	0524U	0553D	S11	W59	6560	03	25.8	37D	SF		2	E		81		
0604	ABST	30	0624E	0629	0642	S07	W64	6561	03	25.5	18D	SF			P	0629	87	2.0	D
0605	ABST	30	0729	0733	0738	S10	E55	6563	04	3.4	9	SF			C	0733	87	1.5	D
0606		30	0742*	0746*	0805	S07	W67	6561	03	25.3	23	1F					109	2.9	DE
	ABST	30	0742	0746	0750	S07	W70	6561	03	25.1	8	SF			C	0746	87		D
	ABST	30	0755	0758	0820	S07	W64	6561	03	25.5	25	1F			C	0758	131	2.9	E
0607		30	08303	08341	0842	S10	E53	6563	04	3.3	12	SN					66	1.3	DEH
	URUM	30	0830	0835	0843	S11	E53	6563	04	3.3	13	SN			C		64	1.1	D
	HTPR	30	0832	0834	0840	S10	E53	6563	04	3.3	8	SN			C	0834	100	1.6	DH
	LEAR	30	0832	0834	0842	S10	E52	6563	04	3.3	10	SF		3	E		30		E
	ABST	30	0833	0835	0838D	S09	E55	6563	04	3.5	5D	SF			C	0835	70	1.2	D
0608		30	0904	0908	0916	S23	W72	6555	03	24.8	12	1B	C 7.7				157		F
	HTPR	30	0904	0908	0912	S24	W70	6555	03	25.0	8	SN			C				
	LEAR	30	0904	0908	0920	S22	W75	6555	03	24.6	16	1B	C 7.7	3	E		157		F
0609	HTPR	30	0955	1005	1008D	S10	E53	6563	04	3.4	13D	SF			C	1005	50	0.8	H
		30	1013		1018	No Flare Patrol													
		30	1020		1036	No Flare Patrol													
		30	1056		1108	No Flare Patrol													
		30	1118		1129	No Flare Patrol													
0610	RAMY	30	1150E	1150U	1210	S27	W68	6555	03	25.2	20D	SF		3	E		57		FH
0611		30	1925*	2003	2008	S08	W76	6561	03	25.1	43	SF					32		
	HOLL	30	1925	2003	2010	S09	W74	6561	03	25.2	45	SF		3	E		38		
	RAMY	30	1957	2003	2007	S06	W78	6561	03	25.0	10	SF		3	E		27		
0612	HOLL	30	2014	2021	2031	S08	W78	6561	03	25.0	17	SF		3	E		44		F
0613		31	00301	00326	0043	S20	W81	6555	03	24.8	13	SF	C 3.1				36		
	PALE	31	0030	0032	0041	S22	W82	6555	03	24.7	11	SF	C 3.1	2	E		45		
	HOLL	31	0031	0038	0045	S19	W80	6555	03	24.9	14	SF	C 7.6	3	E		26		
0614		31	01105	01154	0133	S16	W36	6558	03	28.3	23	1N					98	2.2	EF
	PEKG	31	0110	0119	0140	S16	W36	6558	03	28.3	30	1N			P	0119	168	2.2	E
	PALE	31	0115	0115	0126	S15	W37	6558	03	28.2	11	SF		3	E		28		F
0615	LEAR	31	0249	0256	0312	S24	W77	6555	03	25.2	23	SF	C 4.2	3	E		59		
0616	LEAR	31	0351	0356	0411	S10	E44	6563	04	3.5	20	SF		3	E		27		F
0617	LEAR	31	0453	0500	0510	S10	E43	6563	04	3.4	17	SF		3	E		27		F
0618		31	05123	05174	0532	S30	W79	6555	03	25.0	20	2N					309		EFU
	TACH	31	0512	0518	0530	S30	W76	6555	03	25.2	18	2N		1	C	0518	536		U
	LEAR	31	0513	0517	0535	S29	W82	6555	03	24.8	22	SF		3	E		97		F
	PEKG	31	0515	0521	0530	S30	W80	6555	03	24.9	15	2N			P	0520	294		E

Hα SOLAR FLARES

MARCH 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
0619	LEAR	31	0608	0610	0617	S10	E40	6563	04	3.3	9	SF		3	E		24		F
0620		31	08114	08196	0840	S26	W82	6555	03	25.0	29	2N	M 1.5				746		AE
	URUM	31	0811	0825	0851D	S28	W84	6555	03	24.8	40D	3N			C		884		A
	LEAR	31	0812	0819	0841	S24	W80	6555	03	25.2	29	2N	M 1.5	1	E		609		E
	KANZ	31	0815	0819	0838	S26	W81	6555	03	25.0	23	2N			V				
		31	1035		1042	No Flare Patrol													
		31	1131		1155	No Flare Patrol													
0621	RAMY	31	1357	1359	1402	S13	E34	6563	04	3.1	5	SF		3	E		14		
0622	HOLL	31	1659	1659	1705	S23	W89	6555	03	24.8	6	SF	M 2.4	3	E		27		F
0623	HOLL	31	1753	1759	1805	S14	W54	6558	03	27.7	12	SF		3	E		25		F
0624	HOLL	31	1808	1809	1821	N08	E63	6565	04	5.5	13	SF		3	E		20		
0625		31	19101	19101	1920	S22	W93	6555	03	24.6	10	SF	X 1.0				56		
	HOLL	31	1910	1910	1921	S21	W98	6555	03	24.3	11	SF		3	E		55		
	PALE	31	1911	1911	1919	S22	W88	6555	03	25.0	8	SF	X 1.0	3	E		56		

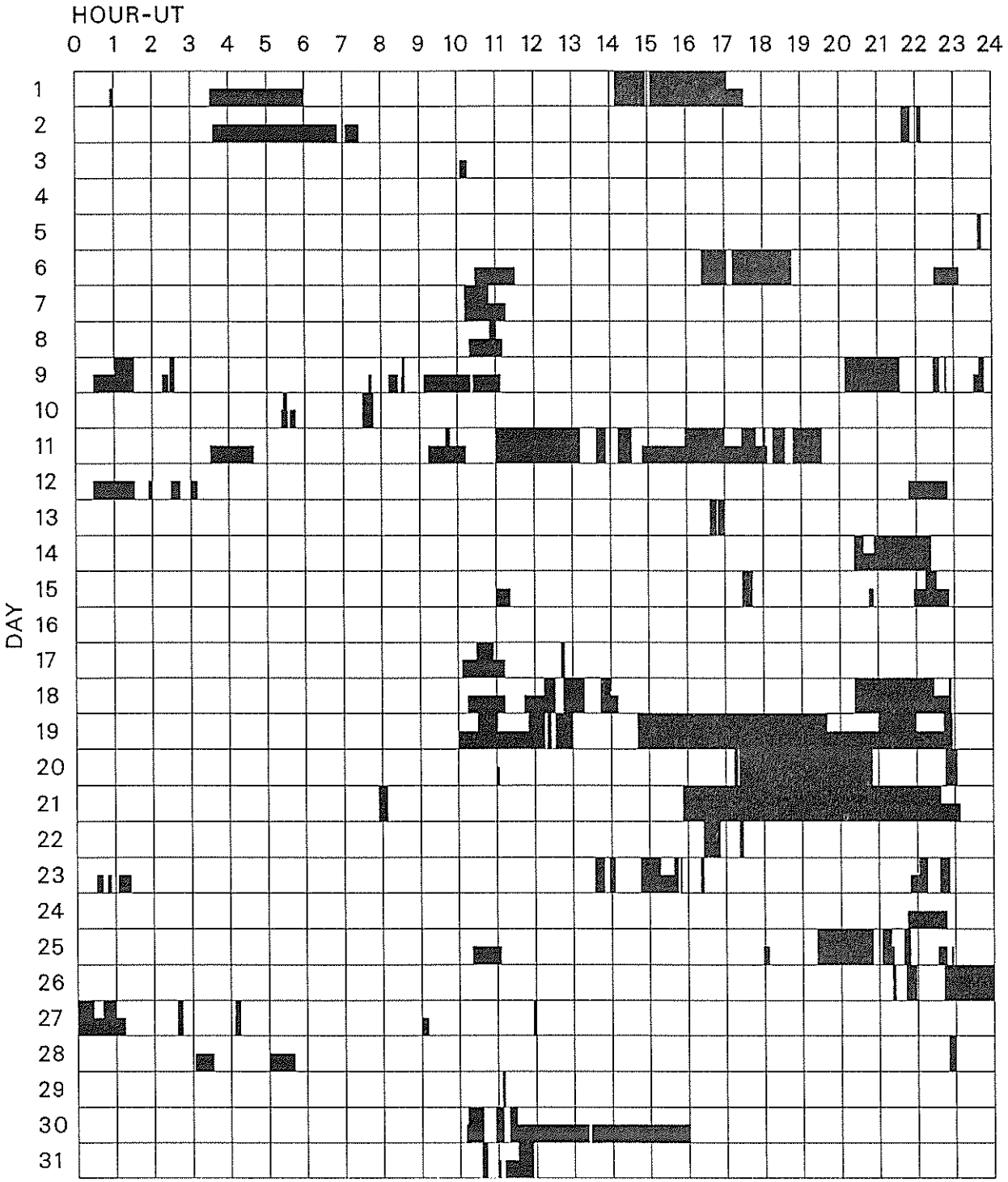
"Remarks"

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

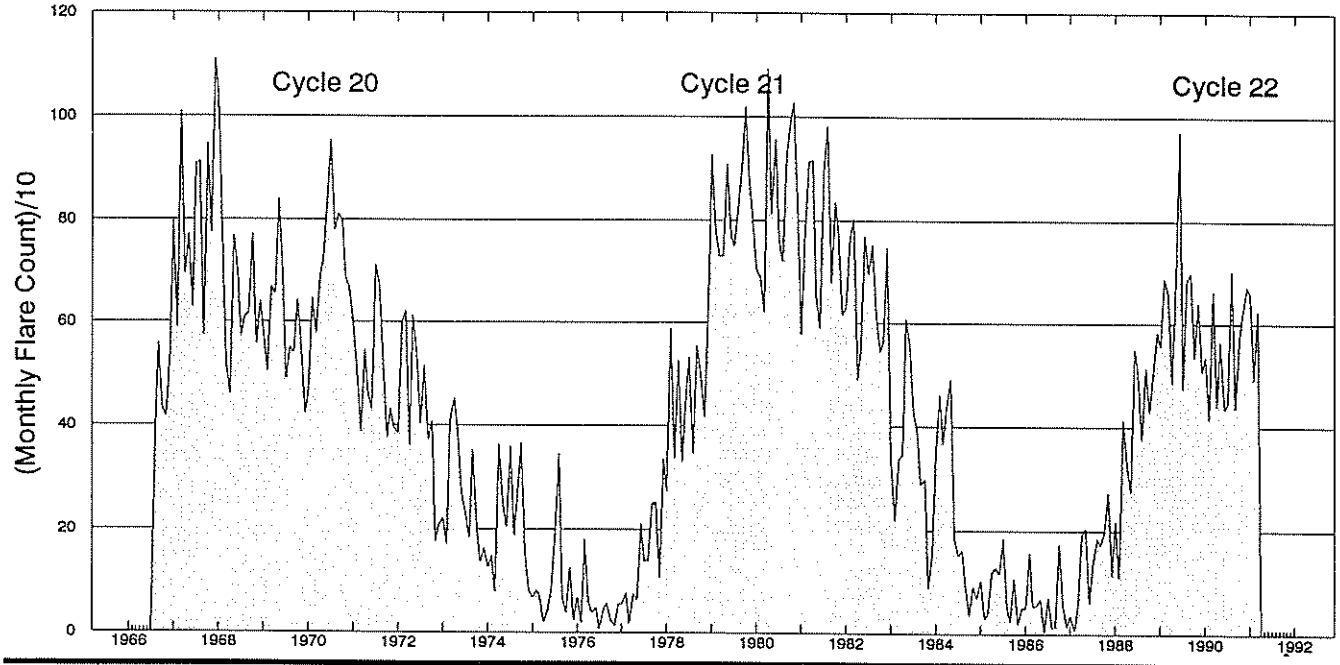
MARCH 1991



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	Holloman	Learmonth	Peking	Urumqi
Athens	Istanbul	Mitaka	Ramey	Voroshilov
Haute Provence	Kanzelhoehe	Ondrejov	San Vito	Watukosek
	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										1775

*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

MARCH 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	17000	NOBE	1	S	0127.1	0128.0	2.0	25.0			L,80,35GHz:0
	500	HIRA	7	C	0253.0	0254.0	1.3	30.0	10.0		WR
	1415	PALE	8	S	0316.0E	0316.0	U	210.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0316.0E	0316.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0321.0E	0321.0	1.0D	92.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0326.0E	0328.0	3.0D	140.0			QL=4 ST=2 TYP=3
	500	HIRA	28	PRE	0437.5	0442.9	5.5	5.0	2.0		0
	500	HIRA	45	C	0443.0	0447.8	10.0	40.0	20.0		0
	2950	GORK	23	GRF	0446.8E		31.5D				
	100	GORK	41	F	0448.0	0458.1		2200.0			
	100	GORK	41	F	0448.0	0456.1		3900.0			
	200	GORK	41	F	0448.0	0458.1		25.0D			
	100	GORK	41	F	0448.0	0448.2	11.5	240.0			
	200	GORK	41	F	0448.0	0448.2	11.8	160.0			
	2840	PEKG	45	C	0448.0	0506.3	34.0	102.0			
	100	HIRA	42	SER	0448.0	0455.3U	24.0	1000.0D			
	9100	GORK	23	GRF	0448.5E	0448.5U	94.1U	19.0			
	15400	LEAR	4	S/F	0456.0E	0508.0	13.0D	58.0			QL=4 ST=2 TYP=5
	2950	GORK	46	C	0456.4	0459.0	14.2	39.0			
	2950	GORK	46	C	0456.4	0505.8		74.0			
	500	HIRA	46	C	0456.5	0459.0	18.0	310.0	100.0		MR
	200	HIRA	46	C	0456.6	0458.6	16.0	68.0	24.0		WR
	4995	LEAR	4	S/F	0457.0E	0505.0	16.0D	84.0			QL=2 ST=2 TYP=5
	8800	LEAR	20	GRF	0458.0E	0505.0	12.0D	48.0			QL=2 ST=2 TYP=2
	2695	LEAR	4	S/F	0458.0E	0505.0	13.0D	110.0			QL=2 ST=2 TYP=5
	9100	GORK	46	C	0458.0	0501.5	19.0	25.0			
	9100	GORK	46	C	0458.0	0505.9		32.0			
	9300	KISV	45	C	0458.2	0505.4	16.0	39.0			
	9300	KISV	45	C	0458.2	0501.7		28.0			
	650	GORK	29	PBI	0500.0E	0509.0	12.7D	8.5			
	950	GORK	29	PBI	0500.0E	0509.0	12.8D	13.0			
	950	GORK	46	C	0500.0E	0500.2	9.0D	30.0			
	950	GORK	46	C	0500.0E	0505.8		44.0			
	650	GORK	46	C	0500.0E	0505.8		48.0			
	650	GORK	46	C	0500.0E	0500.8	9.0D	110.0			
	5900	KISV	4	S/F	0504.8	0505.9	5.0	64.0			
	204	IZMI	5	S	0838.0	0838.3	0.5	52.0	35.0		
	234	POTS	42	SER	0855.1	0902.3	11.3	100.0			
	113	POTS	42	SER	0855.1	0904.6	11.9	200.0			
	204	IZMI	42	SER	0858.5	0907.0	11.0	320.0			
	260	ONDR	41	F	0900.0	0904.4	141.6	68.0			
	100	GORK	41	F	0902.0	0902.3	3.0	600.0			
	127	TORN	42	SER	0902.0	0905.4	4.0	2900.0	150.0		
	100	GORK	41	F	0902.0	0904.5		970.0			
	200	GORK	41	F	0902.2	0902.5	4.6	160.0			
	200	GORK	41	F	0902.2	0904.6		330.0			
	536	ONDR	8	S	0943.0	0943.2	0.6	99.0			
	9100	GORK	23	GRF	1040.6	1203.0	139.4D	9.0			
	9100	GORK	1	S	1109.4	1109.9	2.3	5.0			
	9300	KISV	2	S/F	1109.6	1110.0	6.0	6.0			
	5900	KISV	22	GRF	1119.9	1128.3	13.4	6.0			
	15000	KISV	2	S/F	1123.5	1124.1	1.4	15.0			
	9300	KISV	4	S/F	1146.9	1148.1	3.5	26.0			
	9100	GORK	3	S	1147.1	1148.0	3.2	25.0			
	5900	KISV	2	S/F	1147.1	1148.0	4.9	12.0			
	9500	POTS	4	S/F	1147.3	1148.0	1.4	23.0			
	5900	KISV	2	S/F	1201.3	1202.5	5.2	5.0			
	127	TORN	2	S/F	1244.9	1245.8	1.1	12.0	6.0		
	127	TORN	42	SER	1356.5	1358.9	3.0	230.0	25.0		
	9400	HUAN	4	S/F	1434.2	1435.8	3.6	57.0	26.4		
	9500	CUBA	2	S/F	1434.9	1436.1	4.1	45.0	22.0		
	9500	POTS	4	S/F	1435.0	1436.0	3.0	56.0			
	2695	SGMR	8	S	1435.0E	1436.0	2.0D	61.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1435.0E	1436.0	1.0D	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1435.0E	1436.0	1.0D	41.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1435.0E	1436.0	1.0D	53.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1435.0E	1436.0	2.0D	73.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1435.0E	1436.0	2.0D	65.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1435.0E	1436.0	1.0D	54.0			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

MARCH 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	1470	POTS	3	S	1435.0	1436.4	4.0	38.0			
	6700	CUBA	1	S	1435.0	1436.5	5.0	30.0	15.0		12R
	3000	POTS	4	S/F	1435.0E	1436.5U	4.2D	56.0			
	15000	CUBA	1	S	1435.1	1436.1	1.9	47.0	23.0		28L
	2800	OTTA	3	S	1435.2	1436.6	5.8	67.5	13.0		
	808	ONDR	46	C	1435.5	1436.4	2.5	31.0			
	4995	SGMR	8	S	1436.0E	1436.0	1.0D	41.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1436.0E	1436.0	U	34.0			QL=4 ST=2 TYP=3
	9400	HUAN	29	PBI	1437.8	1437.8	46.4	3.8	1.6		
	2800	OTTA	20	GRF	1512.0	1519.5	50.0	16.8	8.0		
	6700	CUBA	1	S	1518.0	1520.2	5.5	5.0	2.0		16R
	410	SGMR	8	S	1544.0E	1544.0	U	70.0			QL=4 ST=2 TYP=3
	9400	HUAN	23	GRF	1722.3	1747.6	55.1	5.7	3.4		
	9400	HUAN	2	S/F	1734.2	1735.7	3.6	11.4	5.2		
	6700	CUBA	1	S	1735.8	1736.2	1.2	9.0	4.0		17R
	9400	HUAN	2	S/F	1741.1	1743.0	4.9	15.2	6.6		
	6700	CUBA	1	S	1742.5	1742.9	1.5	9.0	4.0		6R
	2800	OTTA	3	S	1742.6	1742.9	3.1	6.3	2.0		
	2800	OTTA	22	GRF	1802.0	1808.0	120.0	14.9	6.0		
	9400	HUAN	1	S	1840.8	1843.2	6.8	7.6	3.1		
	6700	CUBA	2	S/F	1849.0	1849.5	2.0	5.0	2.0		28R
	6700	CUBA	2	S/F	2039.0	2039.9	1.5	8.0	4.0		27R
	9400	HUAN	2	S/F	2039.4	2043.1	8.2	13.3	5.8		
	2800	OTTA	3	S	2048.2	2050.1	4.9	9.5	3.0		
	235	CUBA	7	C	2049.2	2050.3	3.5	31.0			
	280	CUBA	7	C	2049.2	2050.8	3.5	26.0			
02	127	TORN	43	NS	0640.0		424.0		8.0		V=0
	8800	LEAR	8	S	0127.0E	0128.0	1.0D	79.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0127.0E	0128.0	2.0D	140.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0127.0E	0128.0	1.0D	33.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0127.0E	0128.0	2.0D	170.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0127.0E	0128.0	1.0D	76.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0452.6	0455.2	7.6	12.0			
	9300	KISV	28	PRE	0510.5	0513.6	6.3	25.0			
	5900	KISV	28	PRE	0512.9	0513.7	11.1	44.0			
	9100	GORK	3	S	0513.1	0513.7	1.2	22.0			
	2950	GORK	1	S	0513.4	0515.7	3.3	5.0			
	9100	GORK	29	PBI	0514.3	0514.3	20.4	12.0			
	5900	KISV	2	S/F	0554.7	0556.2	4.4	3.0			
	650	GORK	46	C	0645.5	0650.1		7.0			
	650	GORK	46	C	0645.5	0648.3	5.9	5.0			
	950	GORK	45	C	0645.8	0650.1		4.0			
	950	GORK	45	C	0645.8	0647.2	5.0	8.0			
	500	HIRA	40	F	0647.0	0657.3	19.0	29.0			0
	113	POTS	29	PBI	0647.2	0649.0	62.0U	200.0			
	100	HIRA	46	C	0650.6	0650.6	4.0	140.0	50.0		WL
	200	HIRA	46	C	0653.2	0709.0	37.0	50.0	12.0		0
	650	GORK	46	C	0653.5	0657.3		16.0			
	950	GORK	1	S	0653.5	0654.9	3.5U	2.0			
	650	GORK	46	C	0653.5	0654.9	14.8	17.0			
	2850	CRIM	21	GRF	0656.7	0719.0	93.0	17.0	5.0		
	5900	KISV	23	GRF	0657.5	0712.0	40.3	19.0			
	2950	GORK	20	GRF	0657.7	0704.1	60.0	19.0			
	9300	KISV	23	GRF	0659.2	0727.1	48.8	17.0			
	3013	IZMI	7	C	0700.0	0704.0	15.0	18.0	9.0		
	204	IZMI	25	R	0700.0	0710.2	35.0	54.0			
	9500	POTS	22	GRF	0700.0	0705.6	60.0	17.0			
	9100	GORK	22	GRF	0700.0U	0705.6	82.3U	23.0			
	2850	CRIM	1	S	0701.8	0704.0	8.0	22.0	7.0		
	3000	POTS	4	S/F	0702.0	0704.2	6.0	16.0			
	100	HIRA	46	C	0702.0	0722.2	40.0	170.0	70.0		WL
	1470	POTS	4	S/F	0702.0	0705.4	6.3	10.0			
	5900	KISV	4	S/F	0702.5	0706.0	7.8	16.0			
	9300	KISV	45	C	0703.5	0705.6	5.1	14.0			
	9300	KISV	45	C	0703.5	0705.9		14.0			
	40	POTS	45	C	0715.0	0754.0	65.0	U			
	5900	KISV	22	GRF	0833.6	0849.1		4.0			
	5900	KISV	22	GRF	0833.6	0835.2	24.4	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
02	260	ONDR	40	F	0920.0	0925.0	200.0	15.0			
	5900	KISV	2	S/F	1032.0	1034.6	7.0	3.0			
	536	ONDR	46	C	1036.6	1037.5	2.8	48.0			
	9100	GORK	1	S	1053.1	1054.3	2.4	4.0			
	9300	KISV	2	S/F	1053.1	1054.3	4.3	4.0			
	5900	KISV	4	S/F	1229.4	1230.0	6.8	32.0			
	9300	KISV	2	S/F	1229.4	1230.0	2.3	15.0			
	5900	KISV	23	GRF	1229.4	1238.7	19.0	11.0			
	9300	KISV	23	GRF	1229.4	1234.7	20.6	4.0			
	234	POTS	45	C	1300.5	1333.7	77.0U	140.0			
	9500	CUBA	29	PBI	1317.0		11.0	7.0	3.0		1403-1407 DOWN
	3000	POTS	45	C	1345.7	1348.0	16.8	3250.0			
	2800	OTTA	47	GB	1345.9	1348.5	12.1	723.0	145.0		
	15400	SGMR	4	S/F	1346.0E	1348.0	6.0D	210.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1346.0E	1348.0	7.0D	450.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1346.0E	1347.0	5.0D	210.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	1346.0E	1347.0	7.0D	470.0			QL=2 ST=2 TYP=3
	2695	SGMR	49	GB	1346.0E	1348.0	10.0D	830.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1346.0E	1348.0	10.0D	860.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	1346.0E	1348.0	10.0D	850.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	1346.0E	1347.0	10.0D	960.0			QL=2 ST=2 TYP=6
	1415	SVTO	4	S/F	1346.0E	1348.0	10.0D	200.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	1346.0	1348.0U	17.5	523.2	128.8		
	1470	POTS	45	C	1346.0	1348.7	44.0D	240.0			
	6700	CUBA	47	GB	1346.2	1348.0	19.8	845.0			3R
	15000	CUBA	3	S	1346.3	1347.9	10.7	228.0	49.0		3L
	9500	POTS	45	C	1346.4	1348.0	12.2	415.0			
	536	ONDR	49	GB	1346.5	1354.0	15.1	34.0			
	808	ONDR	49	GB	1346.5	1355.7	16.5	51.0			
	9500	CUBA	4	S/F	1346.5	1347.9	10.5	373.0	74.0		
	810	KRAK	7	C	1347.0	1356.0	11.7	62.0	33.0		
	600	HUMN	27	RF	1347.5	1356.0	15.0	9.0	4.0		
	235	CUBA	41	F	1352.2	1409.0U	31.8	333.0			
	280	CUBA	41	F	1352.9	1354.0	31.1	47.0			
	113	POTS	45	C	1353.7	1358.8	23.0U	100.0			
	430	KRAK	3	S	1354.0	1355.1	3.6	53.0	18.0		
	2800	OTTA	29	PBI	1358.0	1446.0	202.0	15.8	8.0		
	40	POTS	45	C	1409.2	1410.8	19.0	U			
	410	SGMR	8	S	1448.0E	1448.0	U	230.0			QL=4 ST=2 TYP=3
	2800	OTTA	22	GRF	1538.0	1554.5	35.5	14.9	6.0		
	9400	HUAN	21	GRF	1540.0	1557.2	65.8	10.2	4.9		
	235	CUBA	6	S	1842.1	1842.5	0.8	46.0			
	280	CUBA	6	S	1842.1	1842.5	0.8	37.0			
	280	CUBA	41	F	2008.9	2011.3	12.1	39.0			
	235	CUBA	41	F	2008.9	2011.3	12.1	17.0			
	610	PALE	8	S	2011.0E	2011.0	1.0D	220.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2011.0E	2011.0	U	270.0			QL=4 ST=3 TYP=3
	410	PALE	8	S	2016.0E	2016.0	U	130.0			QL=4 ST=2 TYP=3
	9400	HUAN	3	S	2138.8	2141.8	8.8	32.2	15.6		
	2800	OTTA	3	S	2139.0	2143.5	28.0	22.0	7.0		
03	127	TORN	43	NS	0926.0		200.0		3.0		V=0
	610	PALE	8	S	0133.0E	0134.0	1.0D	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0134.0E	0134.0	1.0D	88.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0134.0E	0134.0	1.0D	210.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0134.0	0134.5	1.0	70.0	30.0		0
	610	PALE	8	S	0136.0E	0136.0	2.0D	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0155.0E	0155.0	1.0D	210.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0204.0	0211.0	16.0	58.8			
	2695	LEAR	4	S/F	0209.0E	0211.0	5.0D	60.0			QL=2 ST=2 TYP=3
	1415	PALE	4	S/F	0210.0E	0212.0	4.0D	57.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	0210.0E	0210.0	3.0D	43.0			QL=4 ST=2 TYP=2
	500	HIRA	46	C	0210.0	0213.0	29.0	20.0	10.0		0
	200	HIRA	42	SER	0210.6	0213.1	14.0	220.0			0
	610	PALE	4	S/F	0211.0E	0213.0	4.0D	47.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0212.0E	0212.0	U	46.0			QL=4 ST=2 TYP=3
	100	HIRA	42	SER	0212.3		13.0	1000.0D			
	245	PALE	8	S	0218.0E	0219.0	2.0D	96.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0542.5	0542.9	2.4	8.0			

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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
03	9300	KISV	20	GRF	0618.0	0624.5	10.5	6.0			
	5900	KISV	2	S/F	0620.2	0623.7	8.1	8.0			
	9300	KISV	2	S/F	0917.3	0917.8	2.4	8.0			
	5900	KISV	2	S/F	0917.5	0917.9	1.4	12.0			
	5900	KISV	23	GRF	0917.5	0918.9	21.0	2.0			
	9100	GORK	1	S	0917.6	0917.7	0.4	7.0			
	5900	KISV	2	S/F	1123.4	1123.8	5.1	6.0			
	810	KRAK	8	S	1141.3	1141.3	0.4	109.0			
	260	ONDR	4	S/F	1209.5	1210.5	3.1	47.0			
	33	UPIC	32	ABS	1310.0	1322.0	39.0				
	9400	HUAN	20	GRF	1310.8	1345.0	72.8	10.0	4.5		
	2800	OTTA	4	S/F	1842.7	1855.8	74.0	98.6	20.0		
	2695	SGMR	4	S/F	1843.0E	1845.0	9.0D	88.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1844.0E	1845.0	2.0D	33.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1844.0E	1845.0	7.0D	82.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1844.0E	1845.0	1.0D	22.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1844.0E	1845.0	6.0D	45.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1845.0E	1845.0	U	25.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1852.0E	1855.0	16.0D	100.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	1853.0E	1855.0	16.0D	96.0			QL=4 ST=2 TYP=2
	4995	PALE	4	S/F	1854.0E	1855.0	7.0D	35.0			QL=4 ST=2 TYP=3
	1415	PALE	20	GRF	1854.0E	1855.0	14.0D	69.0			QL=4 ST=2 TYP=2
	4995	SGMR	4	S/F	1854.0E	1855.0	14.0D	46.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1854.0E	1856.0	14.0D	66.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	1944.4	1944.9	5.6	12.8	3.0		
	610	PALE	8	S	2038.0E	2039.0	2.0D	120.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2039.0E	2039.0	U	34.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2039.0E	2039.0	U	92.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2039.0E	2039.0	U	84.0			QL=4 ST=2 TYP=3
04	127	TORN	43	NS	0817.0		403.0		4.0		V=1
	2695	PENT	4	S/F	0018.7	0035.1	16.5	98.2	29.0		
	2695	PALE	4	S/F	0019.0E	0021.0	9.0D	130.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0019.0E	0021.0	14.0D	110.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0021.0E	0022.0	6.0D	71.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	0023.0E	0024.0	3.0D	1600.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	0024.0E	0024.0	U	23.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0045.0	0045.0	1.0	2100.0	500.0		0
	100	GORK	41	F	0510.8	0524.0		120.0			
	100	GORK	41	F	0510.8	0514.4	14.7	370.0			
	950	GORK	20	GRF	0511.5	0514.3	13.2	3.0			
	650	GORK	20	GRF	0511.5	0514.3	15.5	2.5			
	2840	PEKG	45	C	0513.0	0521.3	13.0	25.8			
	2950	GORK	21	GRF	0513.0	0529.3	24.4	6.3			
	200	GORK	4	S/F	0517.4	0517.6	1.2	25.0D			
	9300	KISV	45	C	0517.5	0518.0	7.8	62.0			
	9300	KISV	45	C	0517.5	0521.0		60.0			
	9300	KISV	23	GRF	0517.5	0528.0	68.5	19.0			
	9100	GORK	29	PBI	0517.5	0524.5	59.5	15.0			
	2950	GORK	45	C	0517.5	0520.8		13.8			
	9100	GORK	45	C	0517.5	0520.8		60.0			
	9100	GORK	45	C	0517.5	0517.8	7.0	60.0			
	17000	NOBE	20	GRF	0517.5	0520.8	27.0	17.0			O,80,35GHz:0
	2950	GORK	45	C	0517.5	0517.9	5.1	11.3			
	5900	KISV	45	C	0517.6	0521.0		61.0			
	5900	KISV	45	C	0517.6	0518.0	7.7	65.0			
	15000	KISV	45	C	0517.6	0521.0		19.0			
	15000	KISV	45	C	0517.6	0518.0	6.0	21.0			
	15000	KISV	23	GRF	0517.6	0528.0	28.1	8.0			
	5900	KISV	23	GRF	0517.6	0529.0	56.4	22.0			
	2850	CRIM	45	C	0517.6	0521.5		20.6			
	2850	CRIM	45	C	0517.6	0517.9	7.0	10.3	7.0		
	650	GORK	4	S/F	0533.3	0533.6	1.1	12.0			
	950	GORK	2	S/F	0533.4	0533.6	0.6	11.0			
	260	ONDR	41	F	0944.0	1210.5	281.0	645.0U			
	9100	GORK	20	GRF	1027.0U	1200.0	153.0D	7.0			
	33	UPIC	32	ABS	1132.0	1141.0	25.0				
	2850	CRIM	1	S	1133.0	1136.2	6.0	18.3	5.0		
	2950	GORK	21	GRF	1133.0	1136.4	43.0	15.0			

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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
04	3000	POTS	4	S/F	1133.2U	1136.7U	5.8U	16.0			
	808	ONDR	8	S	1201.0	1201.1	1.7	66.0			
	2850	CRIM	1	S	1201.0	1201.2	1.5	8.0	3.0		
	3000	POTS	4	S/F	1201.0	1201.4	2.5	9.0			
	2950	GORK	1	S	1201.1	1201.3	1.8	6.8			
	9500	POTS	45	C	1356.0	1359.5	64.0D	6600.0D			
	2800	OTTA	47	GB	1356.2	1400.4	30.5	3975.0	795.0		
	3000	POTS	45	C	1356.5	1403.0U	64.0D	4400.0D			
	2695	SVTO	49	GB	1357.0E	1400.0	37.0D	4700.0			QL=4 ST=2 TYP=7
	6700	CUBA	47	GB	1357.2	1359.8	29.8	7864.0			SR
	15000	CUBA	47	GB	1358.0U	1403.0		104.0			81R
	15400	SVTO	49	GB	1358.0E	1359.0	20.0D	4600.0			QL=4 ST=2 TYP=7
	8800	SVTO	49	GB	1358.0E	1359.0	27.0D	9400.0			QL=4 ST=2 TYP=7
	4995	SVTO	49	GB	1358.0E	1359.0	33.0D	13000.0			QL=4 ST=2 TYP=7
	33	UPIC	32	ABS	1358.0	1403.0	69.0				
	15000	CUBA	47	GB	1358.0U	1359.7	21.0U	6212.0			1R
	9500	CUBA	47	GB	1358.0	1359.9	23.0	4696.0			
	1470	POTS	45	C	1358.2	1404.0	62.0D	1490.0			
	808	ONDR	49	GB	1358.2	1402.2	24.0	236.0			
	810	KRAK	45	C	1359.0	1402.0	6.5	270.0	82.0		
	15400	SGMR	49	GB	1359.0E	1400.0	8.0D	4100.0			QL=2 ST=3 TYP=7
	8800	SGMR	49	GB	1359.0E	1400.0	9.0D	8300.0			QL=2 ST=3 TYP=7
	410	SVTO	49	GB	1359.0E	1400.0	5.0D	680.0			QL=4 ST=2 TYP=7
	1415	SGMR	49	GB	1359.0E	1403.0	19.0D	4400.0			QL=4 ST=3 TYP=7
	2695	SGMR	49	GB	1359.0E	1400.0	11.0D	5500.0			QL=4 ST=3 TYP=7
	4995	SGMR	49	GB	1359.0E	1400.0	11.0D	9500.0			QL=4 ST=3 TYP=7
	610	SVTO	49	GB	1359.0E	1401.0	16.0D	270.0			QL=4 ST=2 TYP=7
	1415	SVTO	49	GB	1359.0E	1403.0	32.0D	1000.0			QL=4 ST=2 TYP=7
	536	ONDR	47	GB	1359.0	1359.5	9.5	1011.0			
	430	KRAK	45	C	1359.6	1401.0U	4.1	200.0D	33.0		
	610	SGMR	49	GB	1400.0E	1401.0	4.0D	420.0			QL=4 ST=3 TYP=7
	245	SGMR	49	GB	1400.0E	1402.0	7.0D	44000.0			QL=4 ST=3 TYP=7
	410	SGMR	49	GB	1400.0E	1400.0	4.0D	730.0			QL=4 ST=3 TYP=7
	245	SVTO	49	GB	1400.0E	1402.0	6.0D	35000.0			QL=4 ST=2 TYP=7
	280	CUBA	48	C	1400.2	1404.2	7.8	330.0			
	235	CUBA	48	C	1400.2	1404.2	7.8	133.0			
	234	POTS	45	C	1400.5	1404.0U	11.0	20000.0D			
	600	HUMN	4	S/F	1401.0	1402.0	44.0	199.0	12.0		
	260	ONDR	48	C	1401.0	1402.1U	6.0	645.0U			
	113	POTS	45	C	1401.4	1404.2U	9.1	5500.0D			
	127	TORN	7	C	1402.0	1402.4	1.4	150.0	80.0		
	127	TORN	49	GB	1403.4	1406.0U	12.0	5600.0D	1100.0U		
	33	UPIC	3	S	1412.0	1412.2	0.5				
	40	POTS	8	S	1412.0	1412.4	0.8	U			
	15000	CUBA	29	PBI	1419.0		39.5	24.0	12.0		11R
	9500	CUBA	29	PBI	1421.0		144.0	42.0	21.0		
	2800	OTTA	29	PBI	1426.7	1426.7	435.0	102.3	51.0		
	6700	CUBA	29	PBI	1427.0		99.0	61.0	31.0		49L
	600	HUMN	2	S/F	1532.5	1532.7	0.8	16.0	6.0		
	2800	OTTA	3	S	1547.4	1550.0	9.2	41.9	13.0		
	1415	SVTO	4	S/F	1548.0E	1550.0	3.0D	91.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1549.0E	1549.0	4.0D	47.0			QL=4 ST=2 TYP=3
	9400	HUAN	20	GRF	1730.4	1742.9	29.6	7.0	3.8		
	410	PALE	8	S	1741.0E	1741.0	1.0D	53.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1741.0E	1741.0	1.0D	42.0			QL=4 ST=3 TYP=3
	280	CUBA	7	C	1741.6	1743.0	2.7	29.0			
	245	PALE	8	S	1743.0E	1743.0	U	55.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	1747.0E	1747.0	1.0D	1000.0			QL=4 ST=2 TYP=6
	2695	PALE	8	S	1747.0E	1748.0	2.0D	40.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1747.0E	1747.0	1.0D	36.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1747.0E	1747.0	2.0D	940.0			QL=4 ST=2 TYP=6
	2800	OTTA	3	S	1747.6	1748.5	6.9	27.5	8.0		
	4995	PALE	8	S	1748.0E	1748.0	U	23.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1748.0E	1748.0	1.0D	22.0			QL=4 ST=2 TYP=3
	280	CUBA	6	S	1755.9	1756.8	1.0	10.0			
	235	CUBA	6	S	1755.9	1756.8	1.0	10.0			
	1415	PALE	4	S/F	1756.0E	1756.0	3.0D	44.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1756.0E	1756.0	U	35.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1756.0E	1756.0	U	260.0			QL=4 ST=2 TYP=3

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Outstanding Occurrences

MARCH 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	49	GB	1756.0E	1756.0	U	1500.0			QL=4 ST=2 TYP=6
	2695	PALE	8	S	1756.0E	1756.0	2.0D	59.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1756.0E	1756.0	U	240.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1756.0E	1756.0	1.0D	44.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1756.0E	1756.0	U	1800.0			QL=4 ST=2 TYP=6
	2800	OTTA	3	S	1756.2	1756.7	6.3	58.5	18.0		
	9400	HUAN	21	GRF	1901.0	1943.0	107.0	22.7	8.9		
	2800	OTTA	22	GRF	1907.0	1924.0	154.0	21.6	11.0		
	280	CUBA	41	F	1910.3	1922.7	26.7	12.0			
	235	CUBA	41	F	1910.3	1922.7	26.7	12.0			
	9400	HUAN	4	S/F	1920.7	1924.8	8.0	24.4	10.4		
	9400	HUAN	1	S	2005.4	2007.4	5.7	10.5	4.8		
	9400	HUAN	1	S	2025.5	2027.8	4.9	7.0	3.6		
	610	PALE	8	S	2323.0E	2324.0	1.0D	97.0			QL=4 ST=2 TYP=3
	2695	PENT	3	S	2323.1	2325.0	5.1	9.9	3.0		
	2695	PENT	3	S	2332.2	2337.5	12.8	25.1	5.0		
	17000	NOBE	1	S	2335.7	2337.4	3.0	36.0			R,80,35GHz:0
05	127	TORN	43	NS	0857.0		363.0		4.0		V=0
	2695	PENT	4	S/F	0000.9	0002.9	11.6	138.0	41.0		
	2695	LEAR	4	S/F	0001.0E	0002.0	4.0D	150.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0001.0E	0002.0	2.0D	61.0			QL=2 ST=2 TYP=3
	2695	PALE	4	S/F	0001.0E	0002.0	3.0D	140.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0001.0E	0002.0	6.0D	87.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0002.0E	0002.0	2.0D	44.0			QL=4 ST=2 TYP=3
	2695	PENT	4	S/F	0032.6	0033.4	5.6	39.9	12.0		
	17000	NOBE	20	GRF	0103.8	0120.9	40.0	39.0			R,80,35GHz:0
	2840	PEKG	45	C	0109.0	0120.6	28.0	60.7			
	500	HIRA	45	C	0114.0	0118.0	9.0	7.0	3.0		O
	200	HIRA	46	C	0117.5	0120.8	4.0	24.0	4.0		O
	100	HIRA	42	SER	0117.8	0118.0	14.0	330.0			WL
	2840	PEKG	45	C	0218.0	0222.9	14.0	73.2			
	610	LEAR	8	S	0222.0E	0222.0	U	380.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0222.0E	0222.0	1.0D	45.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0222.0E	0222.0	1.0D	22.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	0222.0E	0222.0	1.0D	43.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0222.0E	0222.0	1.0D	37.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0222.0E	0222.0	U	350.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0222.3	0222.6	6.0	140.0			WL
	17000	NOBE	1	S	0222.4	0222.8	1.0	30.0			R,80,35GHz:0
	2840	PEKG	45	C	0305.0	0323.2	31.0	27.1			
	35000	NOBE	1	S	0308.1	0309.0	2.5	21.0			O,80GHz:0
	17000	NOBE	1	S	0308.1	0309.0	2.5	23.0			O
	410	LEAR	49	GB	0325.0E	0325.0	U	820.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0325.0E	0325.0	U	770.0			QL=4 ST=3 TYP=6
	4995	PALE	8	S	0325.0E	0325.0	U	23.0			QL=4 ST=3 TYP=3
	410	LEAR	8	S	0446.0E	0447.0	1.0D	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0446.0	0447.4	4.0	17.2			
	2950	GORK	1	S	0446.9	0447.5	2.4	14.5			
	500	HIRA	6	S	0447.0	0447.5	1.0	500.0	150.0		WL
	650	GORK	2	S/F	0447.1	0447.4	0.7	3.0			
	950	GORK	1	S	0447.1	0447.4	1.2	3.0			
	17000	NOBE	28	PRE	0447.9	0501.0	13.1	18.0			O
	2840	PEKG	47	GB	0455.0	0502.6	39.0	1128.0			
	9100	GORK	23	GRF	0458.0U	1006.0	448.0D	30.0			
	5900	KISV	47	GB	0458.5	0502.5	18.5	2109.0			
	9300	KISV	47	GB	0459.5	0502.5	17.0	734.0			
	15000	KISV	4	S/F	0459.6	0502.5	9.0	285.0			
	950	GORK	20	GRF	0500.0	0503.0	33.0	8.0			
	2950	GORK	47	GB	0500.4	0502.6	6.4	700.0			
	2950	GORK	30	PBI	0500.4	0506.8	395.0	37.0			
	2850	CRIM	3	S	0500.8	0503.0U	8.0	280.0D			
	2695	LEAR	49	GB	0501.0E	0502.0	9.0D	720.0			QL=2 ST=2 TYP=6
	8800	LEAR	4	S/F	0501.0E	0502.0	4.0D	500.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0501.0E	0502.0	4.0D	390.0			QL=4 ST=2 TYP=3
	4995	LEAR	49	GB	0501.0E	0502.0	7.0D	1100.0			QL=2 ST=2 TYP=6
	35000	NOBE	7	C	0501.0	0502.2	4.0	730.0			R
	17000	NOBE	7	C	0501.1	0502.4	6.0	320.0			R
	9100	GORK	4	S/F	0501.1	0502.5	7.9	670.0			

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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
05	410	LEAR	8	S	0502.0E	0502.0	1.0D	90.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0502.0E	0502.0	1.0D	990.0			QL=4 ST=2 TYP=6
	80000	NOBE	7	C	0502.2E	0502.2	2.0D	440.0			R
	5900	KISV	2	S/F	0604.5	0607.7	8.1	8.0			
	2840	PEKG	3	S	0606.0	0618.9	25.0	87.5			
	15000	KISV	2	S/F	0606.7	0607.4	3.1	9.0			
	2850	CRIM	7	C	0607.0	0607.1	1.2	7.0	3.0		
	2850	CRIM	7	C	0607.0	0607.3		10.0			
	3013	IZMI	5	S	0607.0	0607.4	2.0	5.0	3.0		
	2950	GORK	1	S	0607.0	0607.6	1.0	8.2			
	100	HIRA	42	SER	0614.4	0617.2	4.6	300.0			WL
	5900	KISV	45	C	0617.2	0619.0	8.2	35.0			
	100	GORK	4	S/F	0617.2	0617.5	1.1	360.0			
	5900	KISV	45	C	0617.2	0618.7		35.0			
	9300	KISV	2	S/F	0617.3	0618.3	9.3	17.0			
	410	LEAR	8	S	0618.0E	0618.0	1.0D	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0618.0E	0618.0	U	160.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0618.0E	0618.0	2.0D	70.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0618.0E	0619.0	1.0D	430.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0618.0E	0618.0	1.0D	96.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0618.0E	0618.0	1.0D	290.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0618.0E	0618.0	1.0D	76.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0618.0E	0618.0	1.0D	45.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0618.0E	0618.0	1062.0D	26.0			QL=4 ST=1 TYP=3
	2850	CRIM	3	S	0618.1	0619.0	7.0	88.0	29.0		
	17000	NOBE	1	S	0618.1	0618.5	1.0	24.0			O,80,35GHz:O
	950	GORK	29	PBI	0618.2	0621.0	6.0	4.0			
	950	GORK	4	S/F	0618.2	0618.4	2.8	118.0			
	9100	GORK	2	S/F	0618.2	0618.8	2.0	17.0			
	2950	GORK	4	S/F	0618.2	0618.9	4.3	64.0			
	3013	IZMI	7	C	0618.2	0618.9	7.0	51.0	2.0		
	650	GORK	41	F	0618.3	0623.4		20.0			
	15000	KISV	2	S/F	0618.3	0618.7	8.5	21.0			
	200	GORK	4	S/F	0618.3	0618.8	1.3	4000.0			
	650	GORK	41	F	0618.3	0618.8	8.7	110.0			
	500	HIRA	6	S	0618.4	0618.5	1.0	280.0	60.0		WL
	200	HIRA	6	S	0618.6	0618.6	1.3	2000.0	500.0		O
	410	LEAR	8	S	0621.0E	0621.0	2.0D	180.0			QL=4 ST=2 TYP=3
	204	IZMI	5	S	0621.0	0621.5	1.0	2500.0	2000.0		
	3000	POTS	21	GRF	0710.0E	0945.5U	364.0D	64.0			
	9300	KISV	2	S/F	0710.0	0712.6	5.4	6.0			
	9300	KISV	2	S/F	0742.4	0744.9	3.7	7.0			
	2850	CRIM	1	S	0749.1	0750.3	2.0	4.6	1.0		
	3000	POTS	2	S/F	0749.5	0750.4	2.0	7.0			
	5900	KISV	23	GRF	0825.7	0826.6	22.3	3.0			
	9300	KISV	23	GRF	0825.8	0826.7	22.1	4.0			
	9300	KISV	4	S/F	0830.9	0833.3	5.8	50.0			
	3013	IZMI	5	S	0831.0	0833.5	4.2	13.0	6.0		
	2850	CRIM	1	S	0831.2	0833.2	7.0	19.4	6.0		
	15000	KISV	4	S/F	0831.2	0833.3	6.6	109.0			
	9100	GORK	2	S/F	0831.2	0833.4	3.5	45.0			
	2950	GORK	2	S/F	0831.3	0836.4		15.0			
	5900	KISV	4	S/F	0831.3	0833.5	7.6	23.0			
	8800	LEAR	8	S	0832.0E	0833.0	1.0D	32.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0832.0E	0833.0	928.0D	92.0			QL=4 ST=1 TYP=3
	3000	POTS	3	S	0832.8	0833.4	2.4	18.0			
	4995	LEAR	8	S	0833.0E	0833.0	U	16.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0833.0E	0833.0	U	13.0			QL=2 ST=2 TYP=3
	1470	POTS	21	GRF	0905.0	0945.5	110.0	9.0			
	2950	GORK	46	C	0907.3	0913.2		315.0			
	2950	GORK	46	C	0907.3	0911.3	117.0	350.0			
	2950	GORK	46	C	0907.3	0911.8		410.0			
	5900	KISV	47	GB	0907.4	0913.1		287.0			
	5900	KISV	47	GB	0907.4	0911.3		503.0			
	5900	KISV	23	GRF	0907.4	0945.3	96.2	34.0			
	5900	KISV	47	GB	0907.4	0911.9	13.2	624.0			
	9500	POTS	21	GRF	0907.5	0949.0	113.0	25.0			
	9100	GORK	4	S/F	0907.5	0911.8	10.5	390.0			
	2850	CRIM	47	GB	0907.6	0912.0		458.0			

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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
05	2850	CRIM	47	GB	0907.6	0911.2		421.0			
	2850	CRIM	30	PBI	0907.6	0919.6	63.0	14.0	5.0		
	2850	CRIM	47	GB	0907.6	0909.9	12.0	152.0U	132.0U		
	9300	KISV	47	GB	0907.8	0911.1		235.0			
	9300	KISV	47	GB	0907.8	0911.9	20.2	376.0			
	15000	KISV	45	C	0908.0	0911.2		160.0			
	3000	POTS	45	C	0908.0E	0911.6	12.0D	680.0			
	3013	IZMI	45	C	0908.0	0911.7	5.0	442.0			
	15000	KISV	45	C	0908.0	0911.8	8.3	209.0			
	15400	LEAR	4	S/F	0909.0E	0911.0	4.0D	300.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0909.0E	0911.0	5.0D	250.0			QL=2 ST=2 TYP=3
	4995	LEAR	49	GB	0909.0E	0911.0	7.0D	550.0			QL=2 ST=2 TYP=6
	4995	SVTO	49	GB	0909.0E	0911.0	7.0D	680.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	0909.0E	0911.0	8.0D	330.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0909.0E	0911.0	6.0D	350.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0909.0E	0911.0	12.0D	380.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0909.0E	0911.0	891.0D	250.0			QL=4 ST=1 TYP=3
	808	ONDR	46	C	0910.0	0911.0	1.6	47.0			
	950	GORK	46	C	0910.0	0910.1	7.3	116.0			
	950	GORK	46	C	0910.0	0913.4		12.0			
	650	GORK	46	C	0910.5	0911.0		95.0			
	1470	POTS	4	S/F	0910.5	0913.5	7.5	126.0			
	650	GORK	46	C	0910.5	0910.8	0.6	95.0			
	245	LEAR	49	GB	0911.0E	0913.0	3.0D	4600.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0911.0E	0913.0	3.0D	3600.0			QL=4 ST=2 TYP=6
	33	UPIC	32	ABS	0911.0	0913.0	31.0				
	650	GORK	1	S	0911.4	0913.8	5.9	4.0			
	234	POTS	4	S/F	0911.5	0913.6	5.0	11000.0D			
	1415	SVTO	8	S	0912.0E	0913.0	1.0D	150.0			QL=4 ST=2 TYP=3
	200	GORK	4	S/F	0912.0	0912.7	1.1	1500.0			
	260	ONDR	48	C	0912.4	0913.5					
	410	LEAR	8	S	0913.0E	0913.0	U	150.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0913.0E	0913.0	U	110.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0914.0	0915.0	4.5	2500.0			
	9300	KISV	23	GRF	0932.5	1002.4	80.5	35.0			
	33	UPIC	8	S	0941.0	0941.2	0.5				
	2850	CRIM	1	S	0942.0	0945.1	6.0	11.0	3.0		
	9100	GORK	46	C	0942.0	0945.4	24.0	15.0			
	9100	GORK	46	C	0942.0	0957.5		36.0			
	9100	GORK	46	C	0942.0	0953.7		32.0			
	3013	IZMI	7	C	0943.0	0958.0	22.0	32.0	17.0		
	15000	KISV	22	GRF	0950.1	0957.5	49.9	29.0			
	5900	KISV	4	S/F	0951.9	0953.4	9.1	23.0			
	2850	CRIM	3	S	0952.0	0955.2	12.0	47.0	15.0		
	9500	POTS	3	S	0952.0	0957.8	12.0	28.0			
	950	GORK	21	GRF	0952.3	0955.9	11.7	4.0			
	1470	POTS	3	S	0952.5	0956.3	12.5	15.0			
	2950	GORK	22	GRF	0952.5	0957.6	12.0	38.0			
	3000	POTS	4	S/F	0952.8	0957.5	12.2	45.0			
	9300	KISV	4	S/F	0952.8	0957.7	9.0	22.0			
	536	ONDR	42	SER	0954.5	0955.0	3.0	59.0			
	650	GORK	46	C	0954.8	0956.0		65.0			
	650	GORK	46	C	0954.8	0957.0		77.0			
	650	GORK	46	C	0954.8	0955.1	2.5	70.0			
	610	LEAR	8	S	0955.0E	0955.0	2.0D	74.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0955.0E	0955.0	U	69.0			QL=4 ST=2 TYP=3
	600	HUMN	41	F	0955.0	0955.5	3.0	39.0			
	950	GORK	45	C	0955.9	0957.0		10.0			
	950	GORK	45	C	0955.9	0956.3	1.7	130.0			
	808	ONDR	42	SER	0956.0	0956.5	5.0	63.0			
	600	HUMN	1	S	1048.5	1048.8	3.5	6.0	2.0		
	1470	POTS	40	F	1056.8	1057.5	1.7	8.0			
	9100	GORK	1	S	1115.0	1115.7	1.8	7.0			
	9500	POTS	1	S	1115.2	1115.8	1.2	7.0			
	9300	KISV	2	S/F	1115.4	1115.9	2.6	4.0			
	15000	KISV	2	S/F	1115.5	1116.0	3.0	6.0			
	245	SVTO	49	GB	1125.0E	1125.0	U	1100.0			QL=4 ST=2 TYP=6
	9300	KISV	2	S/F	1135.7	1136.8	2.8	8.0			
	5900	KISV	2	S/F	1135.8	1136.8	3.2	7.0			

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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
05	9100	GORK	1	S	1136.0	1136.7	1.7	7.0			
	9500	POTS	4	S/F	1136.0	1136.8	1.7	11.0			
	260	ONDR	42	SER	1138.5	1243.1	81.2	167.0			
	200	GORK	4	S/F	1147.0	1148.1	2.6	15.0			
	113	POTS	4	S/F	1147.6	1148.1	1.7	150.0			
	1470	POTS	42	SER	1147.6	1148.3	6.9	15.0			
	650	GORK	2	S/F	1147.7	1148.0	2.2	7.5			
	950	GORK	1	S	1147.7	1148.1	2.6	5.0			
	2950	GORK	2	S/F	1147.7	1148.3	3.8	13.0			
	2850	CRIM	1	S	1147.8	1148.1	2.2	17.4	5.0		
	100	GORK	4	S/F	1147.8	1148.1	1.2	35.0D			
	3000	POTS	4	S/F	1148.0E	1148.6U	3.0D	16.0			
	245	SVTO	8	S	1317.0E	1317.0	U	94.0			QL=4 ST=2 TYP=3
	113	POTS	41	F	1341.0	1342.1	3.0	180.0			
	40	POTS	4	S/F	1341.9	1342.1	1.3	U			
	245	SVTO	8	S	1429.0E	1429.0	U	79.0			QL=4 ST=2 TYP=3
	280	CUBA	7	C	1511.4	1513.3	2.0	26.0			
	6700	CUBA	2	S/F	1513.3E	1516.0	2.7D	8.0	4.0		51L
	9500	CUBA	1	S	1513.3	1514.4	1.7	6.0	3.0		
	235	CUBA	6	S	1516.0	1517.0	2.0	10.0			
	6700	CUBA	21	GRF	1528.0	1536.0	26.0	12.0	6.0		34R
	9500	CUBA	1	S	1535.5	1536.0	1.2	6.0	3.0		
	6700	CUBA	1	S	1546.0	1547.0	3.0	17.0	8.0		32L
	9500	CUBA	1	S	1546.4	1547.2	2.9	38.0	18.0		
	15400	SGMR	8	S	1547.0E	1548.0	1.0D	76.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1547.0E	1548.0	1.0D	39.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1547.0E	1548.0	1.0D	53.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1547.3	1548.0	2.6	63.0	31.0		5R
	6700	CUBA	46	C	1714.8	1717.8	11.2	172.0			11R
	9500	CUBA	46	C	1715.7	1717.8	8.8	472.0	135.0		
	2800	OTTA	3	S	1715.8	1717.5	13.5	275.6	83.0		
	8800	PALE	4	S/F	1716.0E	1717.0	6.0D	370.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1716.0E	1717.0	5.0D	210.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1716.0E	1717.0	6.0D	370.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1716.0E	1717.0	8.0D	290.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	1716.0E	1717.0	8.0D	160.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1716.0E	1717.0	8.0D	400.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1716.0E	1717.0	8.0D	250.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1716.0E	1717.0	8.0D	280.0			QL=2 ST=2 TYP=3
	9400	HUAN	45	C	1716.1	1719.8U	7.4	222.9	86.8		
	15000	CUBA	46	C	1716.5	1718.0	14.8	302.0	76.0		14L
	410	PALE	49	GB	1717.0E	1718.0	6.0D	790.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	1717.0E	1718.0	6.0D	4800.0			QL=4 ST=2 TYP=6
	610	PALE	4	S/F	1717.0E	1718.0	5.0D	200.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1717.0E	1717.0	3.0D	230.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	1717.0E	1717.0	5.0D	300.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1717.0E	1717.0	7.0D	64.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	1717.0E	1718.0	7.0D	2900.0			QL=2 ST=2 TYP=6
	410	SGMR	49	GB	1717.0E	1718.0	7.0D	600.0			QL=2 ST=2 TYP=6
	280	CUBA	48	C	1718.3	1720.7	13.4	1742.0			
	235	CUBA	48	C	1718.3	1720.7	16.4	34.0			
	9400	HUAN	29	PBI	1723.5	1723.5	62.5	13.9	6.2		
	9500	CUBA	29	PBI	1724.5		12.5	17.0	8.0		
	6700	CUBA	29	PBI	1726.0		11.1	13.0	6.0		00R
	245	PALE	49	GB	1800.0E	1800.0	U	560.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	1800.0E	1800.0	U	380.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	1819.0	1819.6	1.7	17.4	7.0		
	9400	HUAN	4	S/F	1936.9	1938.1	6.6	33.8	14.2		
	9400	HUAN	4	S/F	1936.9	1939.3		31.8			
	15400	PALE	8	S	1938.0E	1939.0	2.0D	51.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1938.0E	1939.0	2.0D	64.0			QL=2 ST=2 TYP=3
	6700	CUBA	2	S/F	1938.0	1938.5	4.1	15.0	7.0		00R
	9500	CUBA	45	C	1938.0	1938.5	3.0	30.0	18.0		
	15000	CUBA	45	C	1938.0	1939.7	3.5	47.0	8.0		14R
	8800	SGMR	8	S	1939.0E	1939.0	1.0D	29.0			QL=2 ST=2 TYP=3
	9400	HUAN	2	S/F	1950.8	1953.0	8.5	8.0	3.6		
	6700	CUBA	1	S	2056.0	2056.5	2.1	10.0	5.0		33R
	9400	HUAN	4	S/F	2056.6	2057.2	4.1	49.8	19.8		
	9500	CUBA	2	S/F	2056.7E	2058.8	3.2D	45.0	22.0		

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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
05	15400	PALE	8	S	2057.0E	2057.0	1.0D	92.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2057.0E	2057.0	1.0D	40.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	2057.0E	2057.0	1.0D	69.0			QL=2 ST=2 TYP=3
	15000	CUBA	2	S/F	2057.1	2057.7	2.1	88.0	44.0		20R
	2800	OTTA	3	S	2133.5	2140.5	25.5	24.2	5.0		
	9400	HUAN	1	S	2134.4	2138.2	10.9	13.9	5.4		
	2695	SGMR	8	S	2140.0E	2140.0	U	24.0			QL=4 ST=2 TYP=3
	15000	CUBA	2	S/F	2210.3	2211.3	1.6	22.0	11.0		20R
	17000	NOBE	1	S	2300.8	2301.6	1.8	25.0			0,80,35GHz:NO O
	8800	LEAR	49	GB	2325.0E	2326.0	14.0D	1400.0			QL=2 ST=2 TYP=6
	8800	PALE	49	GB	2325.0E	2326.0	14.0D	1400.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	2325.0E	2326.0	18.0D	2200.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	2325.0E	2326.0	12.0D	320.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2325.0E	2326.0	12.0D	1600.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	2325.0E	2326.0	26.0D	1600.0			QL=4 ST=2 TYP=6
	2695	LEAR	49	GB	2325.0E	2326.0	36.0D	1900.0			QL=2 ST=2 TYP=6
	4995	LEAR	49	GB	2325.0E	2326.0	34.0D	2000.0			QL=2 ST=2 TYP=6
	15400	LEAR	49	GB	2325.0E	2326.0	37.0D	1400.0			QL=4 ST=2 TYP=6
	80000	NOBE	45	C	2325.3	2326.5	18.0	160.0			R
	35000	NOBE	45	C	2325.3	2326.5	18.0	1370.0			R
	17000	NOBE	45	C	2325.3	2326.5	20.0	1860.0			R
	2695	PENT	47	GB	2325.4	2327.0	13.2	1527.0	305.0		
	410	PALE	4	S/F	2327.0E	2328.0	3.0D	110.0			QL=4 ST=2 TYP=3
	2695	PENT	29	PBI	2338.7	2338.7	90.0D	64.7	32.0		
06	127	TORN	43	NS	0711.0		470.0		4.0		V=0
	245	LEAR	49	GB	0127.0E	0127.0	U	630.0			QL=4 ST=2 TYP=6
	2840	PEKG	47	GB	0201.0	0207.9	16.0	619.1D			
	80000	NOBE	7	C	0203.7	0206.7	7.0	53.0			
	35000	NOBE	7	C	0203.7	0206.7	7.0	215.0			R
	17000	NOBE	7	C	0203.7	0206.7	13.0	400.0			R
	245	LEAR	49	GB	0204.0E	0206.0	4.0D	1600.0			QL=4 ST=2 TYP=6
	15400	LEAR	4	S/F	0204.0E	0206.0	5.0D	430.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0204.0E	0206.0	6.0D	300.0			QL=2 ST=2 TYP=3
	8800	PALE	4	S/F	0204.0E	0206.0	6.0D	250.0			QL=4 ST=2 TYP=3
	2695	LEAR	49	GB	0204.0E	0207.0	14.0D	630.0			QL=2 ST=2 TYP=6
	4995	LEAR	4	S/F	0204.0E	0206.0	13.0D	420.0			QL=2 ST=2 TYP=3
	4995	PALE	4	S/F	0204.0E	0206.0	14.0D	440.0			QL=4 ST=2 TYP=3
	2695	PALE	49	GB	0204.0E	0207.0	13.0D	540.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0205.0E	0205.0	7.0D	10000.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0205.0E	0205.0	2.0D	8800.0			QL=4 ST=2 TYP=6
	610	PALE	20	GRF	0205.0E	0205.0	9.0D	180.0			QL=4 ST=2 TYP=2
	15400	PALE	4	S/F	0205.0E	0206.0	3.0D	360.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0205.0E	0205.0	12.0D	300.0			QL=4 ST=2 TYP=3
	1415	PALE	20	GRF	0205.0E	0207.0	15.0D	340.0			QL=4 ST=2 TYP=2
	500	HIRA	27	RF	0205.5	0208.5	24.0	30.0	17.0		WL
	245	PALE	49	GB	0206.0E	0206.0	1.0D	1400.0			QL=4 ST=2 TYP=6
	2840	PEKG	29	PBI	0217.0	0217.0	33.0	39.5			
	2840	PEKG	3	S	0251.0	0254.4	15.0	25.4			
	500	HIRA	6	S	0253.2	0254.0	3.0	7.0	3.0		0
	245	LEAR	8	S	0258.0E	0258.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0258.0E	0258.0	U	93.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0335.0	0336.6	5.0	37.0			
	2695	LEAR	8	S	0336.0E	0336.0	1.0D	34.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0336.0E	0336.0	1.0D	130.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0336.0E	0336.0	1.0D	98.0			QL=4 ST=2 TYP=3
	100	HIRA	6	S	0336.0	0336.6	1.5	3000.0			WL
	500	HIRA	6	S	0336.5	0336.7	1.5	6.0	2.0		0
	200	HIRA	6	S	0336.6	0336.6	1.0	570.0	150.0		
	2840	PEKG	5	S	0523.0	0526.7	7.0	104.4			
	9300	KISV	23	GRF	0524.5	0535.3	33.1	11.0			
	5900	KISV	23	GRF	0524.5	0538.3	43.0	13.0			
	9100	GORK	23	GRF	0525.2	0752.3	441.8	15.0			
	5900	KISV	4	S/F	0525.3	0526.8	4.4	114.0			
	15400	LEAR	8	S	0526.0E	0526.0	U	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0526.0E	0526.0	U	33.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0526.0E	0526.0	1.0D	89.0			QL=2 ST=2 TYP=3
	2695	LEAR	8	S	0526.0E	0526.0	1.0D	84.0			QL=2 ST=2 TYP=3
	9300	KISV	4	S/F	0526.0	0526.8	6.8	53.0			

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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
06	2950	GORK	4	S/F	0526.2	0527.3	4.7	77.0			
	9100	GORK	2	S/F	0526.2	0526.6	2.3	43.0			
	15000	KISV	2	S/F	0526.2	0526.7	8.0	26.0			
	950	GORK	4	S/F	0526.3	0527.1	1.0	100.0			
	17000	NOBE	1	S	0526.3	0526.6	2.0	27.0			O,80,35GHz:O
	2840	PEKG	29	PBI	0530.0	0530.0	45.0	14.9			
	9300	KISV	4	S/F	0540.0	0541.9	4.8	35.0			
	5900	KISV	2	S/F	0540.4	0541.9	6.7	23.0			
	9100	GORK	3	S	0540.7	0542.0	2.3	35.0			
	2950	GORK	1	S	0640.0	0640.6	0.8	2.5			
	950	GORK	1	S	0640.1	0640.7	4.9	2.0			
	2950	GORK	21	GRF	0721.4		117.0				
	5900	KISV	29	PBI	0737.0	0748.0	24.0	48.0			
	2840	PEKG	47	GB	0737.0	0742.6	23.0	983.2			
	9300	KISV	47	GB	0737.6	0742.0		394.0			
	9300	KISV	29	PBI	0737.6	0748.0	24.0	41.0			
	9300	KISV	47	GB	0737.6	0742.7	10.4	426.0			
	5900	KISV	47	GB	0737.8	0742.7	10.2	479.0			
	3013	IZMI	45	C	0738.0	0742.5	23.0	473.0			
	9100	GORK	4	S/F	0738.5	0742.5	13.8	400.0			
	1470	POTS	45	C	0738.5	0743.5	31.5	375.0			
	3000	POTS	45	C	0738.5	0742.6	36.5	1780.0			
	2950	GORK	29	PBI	0738.6	0751.0	31.5	45.0			
	9500	POTS	4	S/F	0738.6	0745.2	22.4	310.0			
	2950	GORK	47	GB	0738.6	0742.8	13.0	560.0			
	15000	KISV	29	PBI	0738.8	0748.0	24.0	21.0			
	15000	KISV	47	GB	0738.8	0742.7		313.0			
	15000	KISV	47	GB	0738.8	0742.7	9.2	553.0			
	8800	SVTO	4	S/F	0739.0E	0742.0	7.0D	280.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0739.0E	0742.0	5.0D	330.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0739.0E	0742.0	15.0D	330.0			QL=2 ST=2 TYP=3
	4995	LEAR	49	GB	0739.0E	0742.0	15.0D	510.0			QL=2 ST=2 TYP=6
	2695	SVTO	49	GB	0739.0E	0742.0	15.0D	630.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	0739.0E	0742.0	12.0D	520.0			QL=2 ST=2 TYP=6
	15400	LEAR	4	S/F	0739.0E	0742.0	20.0D	410.0			QL=4 ST=2 TYP=3
	2695	LEAR	49	GB	0739.0E	0742.0	20.0D	710.0			QL=2 ST=2 TYP=6
	113	POTS	4	S/F	0739.0	0740.2	7.7	150.0			
	100	HIRA	46	C	0739.4	0741.5	4.0	700.0	200.0		ML
	35000	NOBE	7	C	0739.6	0742.6	7.0	140.0			R,80GHz:O
	17000	NOBE	7	C	0739.6	0742.6	13.0	360.0			R
	33	UPIC	46	C	0739.7	0740.2	3.8				
	100	GORK	46	C	0739.8	0740.0	4.5	500.0			
	200	GORK	46	C	0739.8	0742.2		25.0D			
	200	GORK	46	C	0739.8	0741.3	5.2	25.0D			
	100	GORK	46	C	0739.8	0741.4		250.0			
	950	GORK	29	PBI	0739.9	0748.0	44.3	80.0			
	650	GORK	29	PBI	0739.9	0748.0	42.0	45.0			
	950	GORK	5	S	0739.9	0743.1	8.1	195.0			
	650	GORK	46	C	0739.9	0741.3	8.1	125.0			
	650	GORK	46	C	0739.9	0742.8		90.0			
	200	HIRA	46	C	0740.0	0741.0	4.0	170.0	35.0		
	234	POTS	4	S/F	0740.0	0741.0	4.4	100.0			
	410	LEAR	49	GB	0740.0E	0741.0	10.0D	2900.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0740.0E	0741.0	16.0D	6100.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	0740.0E	0741.0	10.0D	1200.0			QL=4 ST=2 TYP=6
	1415	SVTO	4	S/F	0740.0E	0743.0	14.0D	280.0			QL=4 ST=2 TYP=3
	30	POTS	4	S/F	0740.0	0740.2	3.5	1200.0U			
	600	HUMN	4	S/F	0740.8	0742.2	33.3	819.0	15.0		
	245	LEAR	4	S/F	0741.0E	0741.0	3.0D	90.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0741.0E	0741.0	1.0D	440.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0741.0E	0741.0	U	79.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0741.0	0741.5	1.5	14000.0	1500.0		WL
	33	UPIC	31	ABS	0743.5	0746.5	39.0				
	5900	KISV	2	S/F	0818.5	0819.7	4.0	5.0			
	9300	KISV	2	S/F	0819.2	0819.7	2.0	5.0			
	9300	KISV	2	S/F	0855.0	0856.8	4.0	6.0			
	5900	KISV	2	S/F	0855.7	0856.9	1.8	2.0			
	33	UPIC	32	ABS	1033.5	1041.5	35.0				
	3000	POTS	4	S/F	1035.0U	1039.2U	10.0U	334.0			

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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
06	15000	KISV	22	GRF	1035.4	1039.1	26.5	40.0			
	15000	KISV	22	GRF	1035.4	1049.2		25.0			
	1470	POTS	42	SER	1036.2	1039.4	8.8	48.0			
	3013	IZMI	7	C	1036.3	1038.7	8.5	230.0			
	2950	GORK	46	C	1036.4	1037.0	4.8	54.0			
	9300	KISV	4	S/F	1036.4	1039.1	5.9	122.0			
	2950	GORK	46	C	1036.4	1039.2		340.0			
	5900	KISV	47	GB	1036.4	1039.2	8.4	168.0			
	2950	GORK	30	PBI	1036.4	1041.2	31.0	28.0			
	9300	KISV	30	PBI	1036.4	1045.5	24.3	5.0			
	5900	KISV	30	PBI	1036.4	1045.9	19.4	4.0			
	9500	POTS	41	F	1036.5	1038.8	19.0D	49.0			
	9100	GORK	46	C	1036.6	1049.2		30.0			
	9100	GORK	46	C	1036.6	1038.8	23.4	140.0			
	808	ONDR	45	C	1038.1	1040.0	5.5	138.0			
	950	GORK	46	C	1038.4	1039.4		125.0			
	950	GORK	46	C	1038.4	1038.6	1.7	105.0			
	5900	KISV	45	C	1047.3	1048.0		14.0			
	5900	KISV	45	C	1047.3	1049.1	5.0	23.0			
	3013	IZMI	40	F	1047.5	1048.0	2.5	6.0			
	9300	KISV	4	S/F	1047.5	1049.2	4.7	24.0			
	2950	GORK	46	C	1047.6	1048.0	2.3	11.5			
	2950	GORK	46	C	1047.6	1049.2		13.0			
	113	POTS	41	F	1337.2	1337.3	1.0	1800.0			
	9400	HUAN	1	S	1400.8	1403.5	8.4	8.0	3.6		
	30	POTS	4	S/F	1401.5	1404.1	5.3	6000.0U			
	3000	POTS	40	F	1402.5	1403.0	3.9	9.0			
	113	POTS	41	F	1402.5	1403.2	5.8	250.0			
	9500	POTS	42	SER	1402.7	1404.0	7.3	8.0			
	33	UPIC	46	C	1402.8	1403.5	2.8				
	9400	HUAN	2	S/F	1442.1	1443.3	6.2	4.0	1.9		
	9500	CUBA	4	S/F	1455.5	1458.5	7.5	26.0	13.0		
	9400	HUAN	3	S	1455.6	1456.7	5.8	30.2	13.6		
	6700	CUBA	21	GRF	1456.0	1502.0	10.0	7.0	3.0		28L
	6700	CUBA	2	S/F	1456.3	1458.2	4.2	24.0	12.0		19L
	2800	OTTA	3	S	1504.1	1504.7	2.6	20.2	6.0		
	9500	CUBA	1	S	1526.1	1526.6	0.9	9.0	4.0		
	9400	HUAN	1	S	1553.5	1555.5	4.2	10.0	4.8		
	6700	CUBA	1	S	1555.0	1555.9	2.0	13.0	6.0		5R
	9500	CUBA	1	S	1555.5	1555.9	0.5	11.0	5.0		
	280	CUBA	7	C	1607.8	1609.0	2.9	13.0			
	235	CUBA	7	C	1607.8	1609.0	2.9	28.0			
	8800	SGMR	4	S/F	1713.0E	1716.0	3.0D	120.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1741.7	1743.6	5.6	10.0	4.5		
	9500	CUBA	2	S/F	1743.0	1743.8	1.5	16.0	8.0		
	15000	CUBA	2	S/F	1743.0	1743.8	2.0	21.0	10.0		30R
	6700	CUBA	2	S/F	1743.8	1743.8	2.5	11.0	5.0		19L
	9400	HUAN	45	C	1824.8	1834.3	15.8	273.6	104.6		
	2800	OTTA	4	S/F	1825.9	1835.1	28.1	77.0	31.0		
	6700	CUBA	46	C	1826.0	1845.0		9.0			POL DOWN
	9500	CUBA	46	C	1826.0	1834.5	21.0	205.0	48.0		
	9500	CUBA	46	C	1826.0	1828.7		132.0			
	6700	CUBA	46	C	1826.0	1834.7	22.0	256.0	63.0		POL DOWN
	6700	CUBA	46	C	1826.0	1828.8		143.0			POL DOWN
	15000	CUBA	46	C	1826.8	1834.5	13.1	213.0	69.0		75R
	410	PALE	8	S	1827.0E	1827.0	1.0D	290.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1827.0E	1828.0	1.0D	460.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1827.0E	1834.0	10.0D	190.0			QL=4 ST=2 TYP=5
	4995	PALE	4	S/F	1827.0E	1834.0	11.0D	170.0			QL=4 ST=2 TYP=5
	15400	PALE	4	S/F	1827.0E	1834.0	11.0D	190.0			QL=4 ST=2 TYP=5
	4995	SGMR	4	S/F	1827.0E	1834.0	10.0D	170.0			QL=4 ST=2 TYP=5
	8800	SGMR	4	S/F	1827.0E	1834.0	10.0D	220.0			QL=4 ST=2 TYP=5
	2695	PALE	8	S	1828.0E	1828.0	1.0D	52.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1828.0E	1834.0	8.0D	73.0			QL=4 ST=2 TYP=5
	1415	SGMR	4	S/F	1828.0E	1828.0	332.0D	37.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1828.0E	1828.0	332.0D	110.0			QL=4 ST=1 TYP=3
	610	PALE	8	S	1833.0E	1835.0	2.0D	23.0			QL=4 ST=2 TYP=3
	280	CUBA	7	C	1833.5	1834.6	6.5	16.0			
	235	CUBA	7	C	1833.5	1834.6	6.5	24.0			

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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
06	1415	PALE	8	S	1834.0E	1835.0	1.0D	22.0			QL=4 ST=2 TYP=3
	15000	CUBA	29	PBI	1839.9		10.1	15.0	7.0		53L
	9400	HUAN	29	PBI	1840.6	1840.6	28.6	16.1	7.8		
	2800	OTTA	32	ABS	1918.5	1943.5	39.0	4.4	2.0		
	410	PALE	49	GB	2010.0E	2010.0	U	2700.0			QL=2 ST=2 TYP=6
	410	SGMR	49	GB	2010.0E	2010.0	U	1400.0			QL=4 ST=3 TYP=6
	6700	CUBA	2	S/F	2013.9	2015.0	2.1	9.0	4.0		7R
	2800	OTTA	3	S	2029.8	2037.2	26.2	44.3	9.0		
	9400	HUAN	3	S	2033.3	2036.3	10.7	118.7	46.4		
	410	PALE	8	S	2034.0E	2035.0	1.0D	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2034.0E	2035.0	1.0D	80.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	2034.0E	2034.0	1.0D	68.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2034.0E	2035.0	1.0D	150.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2034.0	2036.9	6.0	95.0	47.0		
	15000	CUBA	46	C	2034.2	2036.9	5.3	134.0	14.0		31R
	235	CUBA	7	C	2035.3	2037.0U	3.1	40.0D			
	280	CUBA	7	C	2035.3	2037.5	3.4	44.0			
	245	PALE	8	S	2036.0E	2037.0	1.0D	100.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2036.0E	2036.0	1.0D	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2036.0E	2036.0	1.0D	68.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2036.0E	2036.0	1.0D	43.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2036.0E	2037.0	2.0D	45.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	2036.0E	2037.0	1.0D	25.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2036.0E	2037.0	1.0D	80.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	2113.0	2114.9	13.3	26.6	5.0		
	9400	HUAN	2	S/F	2116.0	2117.8	3.5	16.1	7.2		
	6700	CUBA	46	C	2133.0	2137.0	11.5	76.0	15.0		20L
	100	HIRA	6	S	2140.8	2141.4	1.6	1700.0			WL
	245	PALE	49	GB	2141.0E	2141.0	1.0D	12000.0			QL=4 ST=2 TYP=6
	200	HIRA	6	S	2141.2	2141.2	1.3	27000.0	3000.0		0
	6700	CUBA	2	S/F	2150.5	2150.7	115.0	10.0	5.0		15L
	245	LEAR	8	S	2243.0E	2243.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2243.0E	2243.0	U	94.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2246.0E	2247.0	2.0D	170.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2247.0E	2247.0	U	200.0			QL=4 ST=2 TYP=3
	2695	PENT	3	S	2302.2	2304.0	12.7	21.0	4.0		
07	100	GORK	43	NS	0715.0		200.0D		10.0		
	200	GORK	43	NS	0733.5		180.0D		5.0		
	113	POTS	44	NS	0740.0E	1008.0U	441.0D	30.0			
	536	ONDR	44	NS	0740.0E	0749.7	180.0D	181.0U			
	127	TORN	43	NS	0740.0	1248.7	440.0	2200.0	80.0		V=2
	234	POTS	43	NS	0744.5	1008.0U	437.0D	35.0			
	204	IZMI	43	NS	0745.0		311.0	20.0			
	260	ONDR	44	NS	0810.0E	0940.6	390.0D	539.0			
	245	SVTO	44	NS	0933.0E	0951.0	24.0D	210.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	0943.0E	0957.0	42.0D	120.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	1208.0E	1212.0	10.0D	100.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1310.0E		500.0D		29.0		
	235	CUBA	44	NS	1310.0E		500.0D		22.0		
	200	HIRA	44	NS	2110.0E	0746.6	690.0D	30.0	8.0		ML
	2840	PEKG	8	S	0127.0	0127.2	1.0	31.6			
	15400	LEAR	4	S/F	0212.0E	0215.0	5.0D	30.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0212.0	0215.7	8.0	27.5			
	610	LEAR	4	S/F	0214.0E	0215.0	3.0D	43.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0214.7	0215.4	1.8	17.0			0,80,35GHz:0
	245	LEAR	49	GB	0215.0E	0215.0	2.0D	580.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0215.0E	0215.0	2.0D	12.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0215.0E	0215.0	U	630.0			QL=4 ST=2 TYP=6
	2840	PEKG	1	S	0437.0	0438.2	10.0	7.5			
	245	LEAR	4	S/F	0452.0E	0453.0	3.0D	120.0			QL=4 ST=2 TYP=3
	100	GORK	46	C	0452.5	0453.2		13000.0			
	200	GORK	46	C	0452.5	0453.5		160.0			
	100	GORK	46	C	0452.5	0452.7	2.9	25000.0			
	200	GORK	46	C	0452.5	0452.8	4.0	160.0			
	100	HIRA	46	C	0452.6	0452.6	2.0	1000.0D			
	200	HIRA	46	C	0452.6	0452.8	2.6	500.0	70.0		WL
	2850	CRIM	3	S	0512.0	0517.8	16.0	48.0	16.0		
	9100	GORK	23	GRF	0515.0	0821.0	315.0D	46.0			

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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
07	2850	CRIM	42	SER	0600.0	0610.0		130.0			
	2850	CRIM	42	SER	0600.0	0606.0		51.0			
	2850	CRIM	42	SER	0600.0	0601.9	20.0	40.0U	38.0U		
	5900	KISV	23	GRF	0608.8	0613.9	20.6	13.0			
	2840	PEKG	3	S	0609.0	0618.1	27.0	60.2			
	9300	KISV	23	GRF	0609.2	0624.0	34.9	22.0			
	17000	NOBE	7	C	0609.2	0619.1	16.0	38.0			R,80,35GHz:0
	3013	IZMI	7	C	0611.0	0618.0	29.0	50.0			
	2950	GORK	46	C	0612.7	0618.1		43.0			
	2950	GORK	46	C	0612.7	0613.8	12.3	10.0			
	15000	KISV	4	S/F	0616.0	0619.0	7.3	52.0			
	15400	LEAR	4	S/F	0616.0E	0619.0	5.0D	54.0			QL=4 ST=2 TYP=3
	5900	KISV	4	S/F	0616.0	0619.1	5.0	87.0			
	9100	GORK	2	S/F	0616.2	0619.1	7.0	90.0			
	9300	KISV	4	S/F	0616.5	0619.0	6.8	86.0			
	2950	GORK	1	S	0632.5	0633.4	2.4	3.2			
	100	GORK	42	SER	0636.7	0741.0		430.0			
	100	GORK	42	SER	0636.7	0638.1	65.3	25000.0			
	100	GORK	42	SER	0636.7	0651.5		370.0			
	2840	PEKG	5	S	0637.0	0639.1	6.0	14.3			
	113	POTS	4	S/F	0637.4	0638.0U	5.1	2500.0D			
	40	POTS	4	S/F	0637.9	0638.4	4.6	U			
	200	GORK	4	S/F	0638.0	0638.1	1.5	80.0			
	2950	GORK	1	S	0638.0	0639.1	3.6	10.0			
	950	GORK	20	GRF	0638.0	0639.5	6.6	12.0			
	650	GORK	20	GRF	0638.0	0639.5	16.0	9.0			
	2840	PEKG	28	PRE	0649.0	0656.6	10.0	8.3			
	3013	IZMI	45	C	0656.0	0710.0	30.0	475.0			
	2950	GORK	1	S	0656.2	0656.5	1.1	4.5			
	1470	POTS	40	F	0657.5U	0706.4U	15.0U	12.0			
	2840	PEKG	45	C	0659.0	0710.1	27.0	182.9			
	9500	POTS	29	PBI	0659.8	0710.4	19.2	60.0			
	2950	GORK	46	C	0700.0	0702.1	22.4	34.0			
	2950	GORK	46	C	0700.0	0710.2		140.0			
	2950	GORK	46	C	0700.0	0706.4		46.0			
	3013	IZMI	7	C	0700.0	0710.5	25.0	110.0			
	3000	POTS	40	F	0700.0	0709.8	20.0	140.0			
	5900	KISV	45	C	0700.2	0702.0		7.0			
	5900	KISV	45	C	0700.2	0701.5	3.8	8.0			
	9100	GORK	2	S/F	0705.7	0706.4	2.2	20.0			
	4995	SVTO	8	S	0706.0E	0706.0	U	61.0			QL=2 ST=2 TYP=3
	9300	KISV	2	S/F	0706.0	0706.4	2.0	18.0			
	4995	SVTO	4	S/F	0708.0E	0710.0	6.0D	230.0			QL=2 ST=2 TYP=3
	17000	NOBE	1	S	0708.1	0710.2	9.0	30.0			R,80,35GHz:0
	9100	GORK	2	S/F	0708.7	0710.1	8.0	82.0			
	9300	KISV	4	S/F	0708.8	0709.9	12.5	90.0			
	2695	SVTO	4	S/F	0709.0E	0710.0	6.0D	140.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0710.0E	0710.0	U	32.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0710.0E	0710.0	1.0D	63.0			QL=2 ST=2 TYP=3
	17000	NOBE	28	PRE	0739.1	0740.0	4.8	16.0			O
	536	ONDR	49	GB	0740.0U	0749.7	60.0D	181.0U			
	5900	KISV	23	GRF	0742.5	0916.3	317.5U	101.0			
	5900	KISV	47	GB	0742.5	0748.9	18.5	4046.0			
	2840	PEKG	47	GB	0743.0	0748.0	26.0D	2461.7D			
	9300	KISV	23	GRF	0743.0	0907.3	267.4	52.0			
	9300	KISV	47	GB	0743.6	0749.1	16.4	2695.0			
	35000	NOBE	45	C	0743.9	0749.0	20.0	2040.0			R
	17000	NOBE	45	C	0743.9	0749.0	25.0	1080.0			R
	80000	NOBE	45	C	0743.9	0749.0	20.0	440.0			
	15000	KISV	47	GB	0743.9	0748.1	18.8	759.0			
	9500	POTS	47	GB	0744.0	0857.0		81.0			
	15400	LEAR	49	GB	0744.0E	0749.0	40.0D	1600.0			QL=4 ST=2 TYP=7
	9500	POTS	47	GB	0744.0	0749.0	426.0D	2000.0			
	9500	POTS	47	GB	0744.0	1403.5		190.0			
	2950	GORK	23	GRF	0744.0	0916.5	166.0D	99.0			
	9500	POTS	47	GB	0744.0	0828.8		168.0			
	950	GORK	23	GRF	0744.1	0915.0D	140.0	45.0			
	2850	CRIM	47	GB	0744.6	0837.2		303.0			
	2850	CRIM	47	GB	0744.6	0829.3		492.0			

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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
07	2850	CRIM	47	GB	0744.6	0748.3	86.0	2700.0	900.0		
	2850	CRIM	47	GB	0744.6	0858.5		250.0			
	2850	CRIM	30	PBI	0744.6	0910.6	129.0	69.0	20.0		
	2950	GORK	47	GB	0744.8	0749.0U	12.0D	2780.0			
	15400	SVTO	49	GB	0745.0E	0749.0	14.0D	1200.0			QL=2 ST=2 TYP=7
	2695	SVTO	49	GB	0745.0E	0749.0	26.0D	3000.0			QL=4 ST=2 TYP=7
	4995	SVTO	49	GB	0745.0E	0749.0	26.0D	5800.0			QL=2 ST=2 TYP=7
	4995	LEAR	49	GB	0745.0E	0749.0	66.0D	5300.0			QL=2 ST=2 TYP=7
	2695	LEAR	49	GB	0745.0E	0749.0	65.0D	3500.0			QL=2 ST=2 TYP=7
	808	ONDR	49	GB	0745.0	0752.0	90.0	89.0			
	3000	POTS	47	GB	0745.0U	0749.0U	425.0D	4000.0D			
	3000	POTS	47	GB	0745.0U	1344.4		75.0			
	3000	POTS	47	GB	0745.0U	1403.5		215.0			
	1470	POTS	47	GB	0745.0	0858.5		190.0			
	3013	IZMI	47	GB	0745.0	0749.5	11.0	3040.0			
	1470	POTS	47	GB	0745.0	1343.6		65.0			
	3000	POTS	47	GB	0745.0U	0857.6		355.0			
	3000	POTS	47	GB	0745.0U	0828.8		1100.0			
	1470	POTS	47	GB	0745.0	0829.8		425.0			
	1470	POTS	47	GB	0745.0	0749.9	425.0D	1660.0			
	650	GORK	23	GRF	0745.3	0915.0D	167.0	42.0			
	8800	SVTO	49	GB	0746.0E	0749.0	17.0D	2500.0			QL=2 ST=2 TYP=7
	1415	SVTO	49	GB	0746.0E	0749.0	23.0D	1200.0			QL=4 ST=2 TYP=7
	33	UPIC	32	ABS	0746.5	0751.5	13.5D				
	245	LEAR	49	GB	0747.0E	0748.0	7.0D	5700.0			QL=4 ST=2 TYP=7
	245	SVTO	49	GB	0747.0E	0748.0	7.0D	5400.0			QL=4 ST=2 TYP=7
	410	LEAR	49	GB	0747.0E	0747.0	14.0D	2700.0			QL=4 ST=2 TYP=7
	410	SVTO	49	GB	0747.0E	0747.0	11.0D	4800.0			QL=4 ST=2 TYP=7
	9100	GORK	47	GB	0747.0	0749.1	15.0	2900.0			
	234	POTS	29	PBI	0747.5	0749.0	41.0U	22000.0D			
	650	GORK	47	GB	0747.6	0749.6	15.4	420.0			
	600	HUMN	45	C	0747.6	0751.6	204.0	168.0	20.0		
	950	GORK	47	GB	0747.6	0749.7	15.4	720.0			
	610	LEAR	49	GB	0748.0E	0750.0	14.0D	350.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	0748.0E	0750.0	16.0D	390.0			QL=4 ST=2 TYP=7
	200	GORK	46	C	0748.0	0753.4		480.0			
	500	HIRA	46	C	0748.0	0748.5	17.0	2500.0	100.0		ML
	200	GORK	46	C	0748.0	0749.7	6.7	120.0			
	200	HIRA	42	SER	0748.6	0753.3	6.6	900.0			WL
	204	IZMI	45	C	0749.0	0754.0	8.0	1300.0			
	113	POTS	29	PBI	0750.5	0753.6	38.0U	2500.0D			
	30	POTS	4	S/F	0754.0E	0806.0	18.5D	2000.0U			
	100	GORK	46	C	0756.0	0806.5		3500.0			
	100	GORK	46	C	0756.0	0800.6		11000.0			
	100	GORK	46	C	0756.0	0757.7	13.1	6600.0			
	100	HIRA	42	SER	0756.6	0757.4	4.6	1000.0D			
	33	UPIC	46	C	0800.0	0804.9	11.5				
	650	GORK	47	GB	0814.6	0859.1		84.0			
	650	GORK	47	GB	0814.6	0828.3	64.0	285.0			
	9300	KISV	45	C	0819.5	0829.5	26.5	159.0			
	9300	KISV	45	C	0819.5	0836.6		64.0			
	5900	KISV	47	GB	0820.2	0828.3	26.9	386.0			
	5900	KISV	47	GB	0820.2	0836.6		203.0			
	2950	GORK	46	C	0820.4	0857.4		236.0			
	2950	GORK	46	C	0820.4	0828.6	54.0	415.0			
	2950	GORK	46	C	0820.4	0836.7		278.0			
	430	KRAK	45	C	0820.5	0829.3	44.0	140.0	28.0		
	950	GORK	47	GB	0821.0	0859.3		100.0			
	9100	GORK	46	C	0821.0	0857.3		66.0			
	950	GORK	47	GB	0821.0	0829.5	54.0	300.0			
	9100	GORK	46	C	0821.0	0836.6		86.0			
	9100	GORK	46	C	0821.0	0828.7	129.5	185.0			
	2695	SVTO	4	S/F	0822.0E	0828.0	55.0D	420.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0822.0E	0828.0	52.0D	420.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0822.0E	0829.0	55.0D	370.0			QL=4 ST=2 TYP=3
	810	KRAK	45	C	0822.0E	0829.5U	71.1D	156.0	49.0		
	8800	SVTO	4	S/F	0823.0E	0828.0	21.0D	140.0			QL=2 ST=2 TYP=5
	410	SVTO	4	S/F	0823.0E	0829.0	21.0D	170.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	0824.0E	0829.0	20.0D	300.0			QL=4 ST=2 TYP=3

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

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MARCH 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	245	SVTO	4	S/F	0825.0E	0829.0	24.0D	130.0			QL=4 ST=2 TYP=3
	15000	KISV	22	GRF	0825.5	0828.7	16.0	57.0			
	15400	SVTO	4	S/F	0827.0E	0829.0	4.0D	36.0			QL=2 ST=2 TYP=3
	410	LEAR	4	S/F	0853.0E	0856.0	8.0D	25.0			QL=4 ST=2 TYP=5
	610	LEAR	20	GRF	0853.0E	0859.0	20.0D	70.0			QL=4 ST=2 TYP=2
	5900	KISV	4	S/F	0853.0	0857.2	10.0	99.0			
	15000	KISV	22	GRF	0853.2	0857.8	28.1	18.0			
	9300	KISV	4	S/F	0853.3	0857.1	10.0	52.0			
	2695	LEAR	4	S/F	0854.0E	0857.0	8.0D	140.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	0854.0E	0858.0	5.0D	31.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0855.0E	0857.0	5.0D	130.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	0855.0E	0857.0	5.0D	37.0			QL=2 ST=2 TYP=3
	30	POTS	42	SER	0926.3	0928.2	29.3	3000.0U			
	113	POTS	45	C	0926.5	0934.2	31.5	1800.0			
	200	GORK	46	C	0926.6	0943.4	29.5	2300.0			
	234	POTS	45	C	0926.6	0944.5	33.4	5500.0			
	200	GORK	46	C	0926.6	0945.6		2400.0			
	200	GORK	46	C	0926.6	0944.8		4400.0			
	204	IZMI	45	C	0926.7	0945.0	31.0	10000.0			
	100	GORK	46	C	0926.8	0935.0		500.0			
	100	GORK	46	C	0926.8	0928.0	29.7	8500.0			
	100	GORK	46	C	0926.8	0949.1		330.0			
	245	LEAR	49	GB	0927.0E	0928.0	3.0D	620.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0927.0E	0928.0	3.0D	690.0			QL=4 ST=2 TYP=6
	430	KRAK	46	C	0927.2	0957.0		190.0D			
	430	KRAK	46	C	0927.2	0928.5	85.0	190.0D	10.0		
	950	GORK	4	S/F	0927.3	0928.1	2.7	46.0			
	650	GORK	46	C	0927.3	0928.1	2.9	37.0			
	650	GORK	46	C	0927.3	0929.5		30.0			
	2850	CRIM	1	S	0927.4	0929.0	2.0	20.0	7.0		
	2950	GORK	4	S/F	0927.5	0928.9	3.0	25.0			
	5900	KISV	4	S/F	0927.6	0929.1	4.7	32.0			
	410	LEAR	8	S	0928.0E	0928.0	1.0D	230.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0928.0E	0928.0	1.0D	330.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0933.0E	0944.0	22.0D	3600.0			QL=4 ST=2 TYP=7
	410	LEAR	8	S	0939.0E	0940.0	1.0D	23.0			QL=4 ST=2 TYP=3
	950	GORK	46	C	0939.1	0939.3	1.5	26.0			
	950	GORK	46	C	0939.1	0940.5		16.0			
	245	SVTO	49	GB	0940.0E	0944.0	7.0D	3500.0			QL=2 ST=2 TYP=6
	3013	IZMI	7	C	0941.5	0944.2	10.0	20.0			
	2950	GORK	4	S/F	0942.7	0944.1	5.3	25.0			
	5900	KISV	2	S/F	0942.8	0944.1	6.1	17.0			
	2850	CRIM	1	S	0942.9	0944.1	5.0	20.0	7.0		
	610	LEAR	8	S	0954.0E	0954.0	U	16.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0956.0E	0957.0	4.0D	82.0			QL=4 ST=2 TYP=3
	810	KRAK	1	S	1023.8	1023.9	0.4	10.0	2.0		
	5900	KISV	4	S/F	1032.8	1034.8	6.1	50.0			
	3013	IZMI	41	F	1034.5	1035.0	4.5	17.0			
	430	KRAK	42	SER	1142.1	1143.5	2.5	200.0D			
	245	SGMR	8	S	1143.0E	1144.0	1.0D	50.0			QL=2 ST=2 TYP=3
	430	KRAK	45	C	1145.1	1148.0	40.0	47.0	13.0		
	245	SGMR	4	S/F	1146.0E	1147.0	3.0D	61.0			QL=2 ST=2 TYP=3
	410	SVTO	4	S/F	1146.0E	1150.0	7.0D	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1146.0E	1147.0	2.0D	65.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1147.0E	1149.0	3.0D	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1158.0E	1158.0	U	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1211.0E	1212.0	1.0D	75.0			QL=2 ST=2 TYP=3
	15400	SGMR	20	GRF	1241.0E	1243.0	6.0D	59.0			QL=2 ST=2 TYP=2
	245	SGMR	4	S/F	1241.0E	1243.0	6.0D	63.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	1241.0E	1243.0	3.0D	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1250.0E	1250.0	1.0D	53.0			QL=2 ST=2 TYP=3
	6700	CUBA	21	GRF	1300.0	1413.0	148.0	30.0			COMPLEX POL
	9400	HUAN	22	GRF	1302.0	1317.0	38.5	14.0	6.8		
	113	POTS	42	SER	1332.5	1339.1	7.5	300.0			
	234	POTS	42	SER	1332.5	1338.6	8.5	1500.0			
	536	ONDR	42	SER	1335.5	1336.0	5.0	112.0			
	610	SGMR	8	S	1336.0E	1336.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1336.0E	1337.0	2.0D	400.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1336.0E	1338.0	3.0D	900.0			QL=4 ST=2 TYP=6

S O L A R R A D I O E M I S S I O N
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MARCH 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	245	SVTO	49	GB	1336.0E	1338.0	3.0D	780.0			QL=4 ST=2 TYP=6
	610	SVTO	8	S	1336.0E	1336.0	U	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1336.0E	1337.0	1.0D	300.0			QL=4 ST=2 TYP=3
	430	KRAK	42	SER	1336.0	1336.5	3.3	190.0D			
	808	ONDR	42	SER	1336.0	1338.7	4.0	65.0			
	810	KRAK	42	SER	1336.2	1339.0	3.3	73.0			
	2800	OTTA	3	S	1336.7	1344.2	14.5	34.0	10.0		
	600	HUMN	41	F	1337.0	1337.3	2.0	54.0			
	15000	CUBA	1	S	1338.4	1338.9	3.3	15.0	7.0		7L
	9400	HUAN	21	GRF	1354.4	1409.1	58.2	20.0	9.6		
	2800	OTTA	20	GRF	1356.1	1359.1	29.2	6.8	3.0		
	9500	CUBA	45	C	1358.0	1404.6	25.1	57.0			1400-1404 DOWN
	6700	CUBA	3	S	1400.0	1405.7	11.0	53.0			22L 1403-1405DO
	9400	HUAN	3	S	1402.4	1403.3	6.1	198.5	46.4		
	15400	SGMR	8	S	1403.0E	1403.0	1.0D	140.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1403.0E	1403.0	5.0D	380.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1403.0E	1403.0	1.0D	170.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1403.0E	1403.0	5.0D	140.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1403.0E	1403.0	3.0D	170.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	1403.0E	1403.0	6.0D	390.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1403.0E	1403.0	5.0D	170.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1405.0E	1405.6	4.0D	15.0	7.0		22R 1403-1405DO
	15000	CUBA	1	S	1413.1	1413.9	1.5	7.0	3.0		11L
	245	SGMR	4	S/F	1423.0E	1424.0	4.0D	59.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1431.5	1432.2	1.0	9.0	4.0		7L
	245	SGMR	4	S/F	1437.0E	1438.0	4.0D	280.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1438.0E	1438.0	1.0D	240.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1512.0E	1512.0	1.0D	420.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1512.0E	1512.0	1.0D	350.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1527.0E	1527.0	U	460.0			QL=2 ST=2 TYP=3
	9400	HUAN	1	S	1606.6	1612.0	11.8	10.0	4.2		
	245	SGMR	8	S	1635.0E	1635.0	U	63.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1646.0E	1646.0	1.0D	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1654.0E	1655.0	1.0D	160.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	1711.0E	1713.0	11.0D	44.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1715.0E	1718.0	5.0D	3400.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1715.0E	1718.0	5.0D	3000.0			QL=4 ST=2 TYP=6
	235	CUBA	7	C	1715.0	1718.3	6.0U	2056.0			
	280	CUBA	48	C	1715.0	1718.3	6.0U	2282.0			
	2800	OTTA	3	S	1715.3	1718.5	6.0	217.0	65.0		
	410	PALE	4	S/F	1716.0E	1717.0	3.0D	100.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1716.0E	1718.0	4.0D	330.0			QL=4 ST=2 TYP=3
	6700	CUBA	47	GB	1716.0	1724.8		12.0			LOST POL
	6700	CUBA	47	GB	1716.0	1731.8		13.0			LOST POL
	6700	CUBA	47	GB	1716.0	1718.9	19.9	1530.0			SL
	9400	HUAN	45	C	1716.1	1718.7U	17.1	427.1	178.6		
	15000	CUBA	4	S/F	1716.7	1718.5	5.3	277.0	90.0		13L
	9500	CUBA	45	C	1716.9	1718.6	15.1	362.0	33.0		
	8800	PALE	4	S/F	1717.0E	1718.0	3.0D	250.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1717.0E	1718.0	3.0D	150.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1717.0E	1718.0	2.0D	60.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1717.0E	1718.0	2.0D	43.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1717.0E	1718.0	3.0D	460.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1717.0E	1718.0	3.0D	490.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	1717.0E	1718.0	3.0D	220.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1717.0E	1718.0	3.0D	200.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1718.0E	1718.0	4.0D	36.0			QL=4 ST=2 TYP=3
	2800	OTTA	29	PBI	1721.3	1721.3	29.0	14.7	7.0		
	15000	CUBA	29	PBI	1722.0		13.5	32.0	16.0		3R
	245	PALE	4	S/F	1726.0E	1727.0	3.0D	70.0			QL=4 ST=2 TYP=5
	245	SGMR	8	S	1728.0E	1728.0	1.0D	93.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	1731.6	1732.0	1.6	37.1	11.0		
	9400	HUAN	2	S/F	1840.5	1842.6	7.6	14.0	6.1		
	410	PALE	8	S	1842.0E	1842.0	1.0D	71.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1842.0E	1842.0	1.0D	71.0			QL=4 ST=2 TYP=3
	15000	CUBA	2	S/F	1842.2	1842.6	2.4	77.0	38.0		8R
	280	CUBA	6	S	1842.3	1843.3	1.3	56.0D			
	235	CUBA	6	S	1842.3	1843.3	1.3	80.0D			
	9500	CUBA	2	S/F	1842.3	1842.6	1.7	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
07	15000	CUBA	42	SER	2010.4	2020.5	14.7	38.0			11R
	6700	CUBA	42	SER	2011.0	2020.0	15.0	30.0	7.0		16L
	9400	HUAN	2	S/F	2018.7	2020.0	6.0	20.0	8.6		
	9500	CUBA	2	S/F	2019.0	2020.7	3.0	25.0	12.0		
	9500	CUBA	29	PBI	2022.0		7.9	9.0	4.0		
	9400	HUAN	4	S/F	2026.4E	2032.1	10.9D	74.2	28.6		
	9500	CUBA	46	C	2036.5	2038.5	9.5	75.0	19.0		
	9500	CUBA	46	C	2036.5	2043.8		15.0			
	15400	SGMR	8	S	2037.0E	2038.0	2.0D	68.0			QL=2 ST=2 TYP=3
	6700	CUBA	42	SER	2037.2	2038.5	15.8	71.0	9.0		17L
	15000	CUBA	46	C	2037.4	2038.5	10.1	78.0	16.0		COMPLEX POL
	2800	OTTA	3	S	2037.4	2038.6	4.5	36.0	11.0		
	280	CUBA	6	S	2037.7	2038.8	2.4	1052.0			
	235	CUBA	6	S	2037.7	2038.8	2.4	1105.0			
	8800	PALE	8	S	2038.0E	2038.0	U	32.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2038.0E	2038.0	1.0D	130.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2038.0E	2038.0	U	34.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2038.0E	2038.0	U	48.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2038.0E	2039.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2038.0E	2038.0	1.0D	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2038.0E	2039.0	1.0D	74.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2038.0E	2038.0	U	59.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2038.0E	2038.0	U	30.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2039.0E	2039.0	U	21.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	2043.3	2045.3	6.9	14.0	6.0		
	9500	CUBA	29	PBI	2046.0		9.2	15.0	7.0		
	410	PALE	8	S	2103.0E	2103.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2103.0E	2103.0	1.0D	640.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2103.0E	2103.0	1.0D	640.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	2103.0E	2103.0	1.0D	92.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2216.0E	2216.0	1.0D	5200.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2216.0E	2216.0	1.0D	4400.0			QL=4 ST=3 TYP=6
	2695	LEAR	49	GB	2316.0E	2317.0	7.0D	860.0			QL=2 ST=2 TYP=6
	4995	LEAR	49	GB	2316.0E	2317.0	5.0D	1100.0			QL=2 ST=2 TYP=6
	1415	LEAR	4	S/F	2316.0E	2317.0	8.0D	350.0			QL=2 ST=2 TYP=3
	15400	LEAR	49	GB	2316.0E	2317.0	2.0D	710.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	2316.0E	2317.0	2.0D	690.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	2316.0E	2317.0	4.0D	35000.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	2316.0E	2317.0	3.0D	1300.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	2316.0E	2317.0	5.0D	760.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	2316.0E	2317.0	6.0D	330.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2316.0E	2317.0	2.0D	870.0			QL=4 ST=2 TYP=6
	17000	NOBE	45	C	2316.7	2317.4	5.0	820.0			L-R
	80000	NOBE	45	C	2316.7	2317.4	3.0	1000.0			
	35000	NOBE	45	C	2316.7	2317.4	4.0	1840.0			L-R
	2695	PENT	47	GB	2316.8	2317.2	11.1	676.0	135.0		
	200	HIRA	48	C	2316.8	2316.8U	8.6	51000.0D	1000.0U		WL
	610	PALE	4	S/F	2317.0E	2317.0	5.0D	210.0			QL=4 ST=2 TYP=3
	500	HIRA	46	C	2317.0	2317.0	10.0	300.0	60.0		WR
	100	HIRA	46	C	2317.1		6.6	1000.0D			
	410	PALE	8	S	2324.0E	2324.0	U	58.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	2335.0	2336.8	7.0	18.0			O,80,35GHz:O
08	200	GORK	44	NS	0429.0E		421.0D		5.0		
	100	GORK	44	NS	0429.0E		420.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	20.0			
	234	POTS	44	NS	0630.0E	0638.0	512.0D	35.0			
	245	SVTO	44	NS	0703.0E	0743.0	40.0D	100.0			QL=4 ST=2 TYP=1
	127	TORN	43	NS	0900.0		360.0		7.0		V=1
	260	ONDR	44	NS	0900.0E	1108.9	340.0D	600.0U			
	280	CUBA	44	NS	1313.0E		517.0D		31.0		
	235	CUBA	44	NS	1313.0E		517.0D		25.0		
	245	SGMR	44	NS	1458.0E	1536.0	542.0D	67.0			QL=4 ST=3 TYP=1
	245	PALE	44	NS	1746.0E	1759.0	636.0D	200.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2110.0E	2204.0	690.0D	18.0	5.0		ML
	410	LEAR	8	S	0134.0E	0135.0	2.0D	22.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0135.0E	0135.0	U	65.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0140.0	0141.7	4.0	10.4			
	2840	PEKG	45	C	0207.0	0229.0	39.0	56.6			

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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
08	17000	NOBE	1	S	0232.3	0232.8	1.5	11.0			0,80,35GHz:0
	2840	PEKG	45	C	0338.0	0351.3	33.0	27.6			
	9100	GORK	23	GRF	0445.0U	1058.3	405.0D	14.0			
	5900	KISV	22	GRF	0500.2	0504.2	11.6	13.0			
	9300	KISV	22	GRF	0501.7	0504.1	41.5	8.0			
	5900	KISV	2	S/F	0527.2	0531.4	8.1	6.0			
	245	LEAR	8	S	0604.0E	0604.0	1.0D	240.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0604.0E	0604.0	1.0D	220.0			QL=2 ST=2 TYP=3
	200	GORK	4	S/F	0604.2	0604.7	0.8	490.0			
	100	GORK	4	S/F	0604.2	0604.9	0.9	50.0			
	204	IZMI	41	F	0604.5	0604.6	0.5	700.0			
	5900	KISV	2	S/F	0626.2	0628.2	7.3	6.0			
	245	LEAR	8	S	0703.0E	0703.0	1.0D	68.0			QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	0709.1	0710.2	4.6	4.0			
	2840	PEKG	1	S	0730.0	0733.2	8.0	7.7			
	245	LEAR	49	GB	0731.0E	0733.0	4.0D	4800.0			QL=2 ST=2 TYP=6
	100	GORK	41	F	0732.6	0738.4		340.0			
	100	GORK	41	F	0732.6	0733.4	6.4	3300.0			
	113	POTS	41	F	0732.7	0733.0	7.3	2000.0D			
	234	POTS	4	S/F	0732.8	0733.0	1.1	7500.0			
	245	SVTO	49	GB	0733.0E	0733.0	1.0D	4300.0			QL=2 ST=2 TYP=6
	2950	GORK	1	S	0733.0	0733.2	3.3	7.1			
	200	GORK	46	C	0733.0	0733.2	4.0	5100.0			
	3013	IZMI	5	S	0733.0	0733.3	2.0	4.0	3.0		
	200	GORK	46	C	0733.0	0733.4		1800.0			
	950	GORK	1	S	0733.0	0733.5	4.8	5.0			
	650	GORK	20	GRF	0733.0	0733.5	6.5	4.0			
	204	IZMI	5	S	0733.0	0733.5	0.5	8000.0	7000.0		
	5900	KISV	2	S/F	0733.1	0733.4	2.1	5.0			
	5900	KISV	2	S/F	0804.1	0804.8	3.0	3.0			
	2950	GORK	21	GRF	0816.0	0922.7	186.6	11.0			
	610	LEAR	4	S/F	0909.0E	0913.0	4.0D	120.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0909.0E	0909.0	2.0D	670.0			QL=4 ST=2 TYP=6
	3013	IZMI	40	F	0909.5	0912.0	16.0	14.0			
	5900	KISV	23	GRF	0910.0	0915.0	26.8	12.0			
	3000	POTS	41	F	0910.2	0912.0	15.2	19.0			
	15000	KISV	22	GRF	0910.5	0912.2	13.5	21.0			
	15000	KISV	22	GRF	0910.5	0917.6		19.0			
	9100	GORK	46	C	0910.6	0912.0	14.0	45.0			
	1470	POTS	40	F	0910.6	0912.4	4.9	9.0			
	9100	GORK	46	C	0910.6	0917.6		27.0			
	2950	GORK	45	C	0910.8	0912.0		15.0			
	5900	KISV	4	S/F	0910.8	0912.0	4.2	38.0			
	9300	KISV	23	GRF	0910.8	0916.0	14.2	6.0			
	2950	GORK	45	C	0910.8	0911.3	3.2	13.0			
	9500	POTS	42	SER	0911.0	0912.2	14.4	40.0			
	9300	KISV	4	S/F	0911.7	0912.1	3.0	40.0			
	600	HUMN	2	S/F	0912.5	0914.0	1.5	42.0	15.0		
	5900	KISV	45	C	0916.4	0917.6	7.4	31.0			
	5900	KISV	45	C	0916.4	0919.8		27.0			
	9300	KISV	2	S/F	0916.6	0917.6	6.4	22.0			
	2950	GORK	46	C	0916.7	0919.0		10.0			
	2950	GORK	46	C	0916.7	0917.1	5.0	6.4			
	204	IZMI	5	S	0921.6	0921.7	0.3	900.0	700.0		
	234	POTS	4	S/F	0938.8	0940.0	1.7	550.0			
	245	SVTO	8	S	0939.0E	0940.0	1.0D	390.0			QL=4 ST=2 TYP=3
	100	GORK	4	S/F	0939.5	0940.3	4.0	580.0			
	200	GORK	4	S/F	0939.8	0940.1	0.9	1300.0			
	113	POTS	4	S/F	0939.8	0940.2	1.6	100.0			
	245	LEAR	8	S	0940.0E	0940.0	U	390.0			QL=2 ST=2 TYP=3
	204	IZMI	5	S	0940.0	0940.2	0.6	2400.0	1500.0		
	245	LEAR	8	S	1014.0E	1014.0	U	51.0			QL=2 ST=2 TYP=3
	15000	KISV	2	S/F	1040.7	1041.5	2.1	10.0			
	3013	IZMI	23	GRF	1047.5	1058.0	20.0	7.0	5.0		
	5900	KISV	23	GRF	1047.5	1058.2	37.4	12.0			
	9100	GORK	2	S/F	1048.5	1049.2	2.1	10.0			
	9300	KISV	22	GRF	1048.7	1049.2	35.5	11.0			
	5900	KISV	2	S/F	1048.8	1049.3	4.2	12.0			
	245	SVTO	49	GB	1108.0E	1108.0	1.0D	4700.0			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
08	40	POTS	4	S/F	1108.1	1108.7	1.7	U			
	100	GORK	4	S/F	1108.3	1108.9	1.0	1700.0			
	200	GORK	4	S/F	1108.4	1108.7	0.9	4900.0			
	127	TORN	4	S/F	1108.4	1108.8	1.2	770.0	380.0		
	650	GORK	1	S	1108.5	1109.5	2.9	4.0			
	113	POTS	4	S/F	1108.6	1109.0	1.2	300.0			
	950	GORK	1	S	1108.6	1109.1	1.9	1.5			
	204	IZMI	5	S	1109.0	1109.1	0.2	7000.0	6000.0		
	113	POTS	8	S	1130.7	1130.8	0.4	150.0			
	9300	KISV	47	GB	1141.5	1144.2	10.3	378.0			
	5900	KISV	30	PBI	1141.5	1152.3	21.4	16.0			
	9300	KISV	30	PBI	1141.5	1152.4	21.4	17.0			
	5900	KISV	47	GB	1141.5	1144.5	10.0	378.0			
	536	ONDR	42	SER	1141.5	1144.6	7.0	171.0			
	3013	IZMI	45	C	1141.5	1144.6	18.0	209.0			
	2695	SGMR	4	S/F	1142.0E	1144.0	5.0D	260.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1142.0E	1142.0	U	250.0			QL=4 ST=3 TYP=3
	4995	SGMR	4	S/F	1142.0E	1144.0	5.0D	290.0			QL=4 ST=3 TYP=3
	610	SVTO	4	S/F	1142.0E	1143.0	4.0D	83.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1142.0E	1144.0	4.0D	260.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1142.0E	1144.0	5.0D	340.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	1142.0	1143.0	13.0	36.0	6.0		
	1470	POTS	29	PBI	1142.0	1145.0	17.7	80.0			
	9500	POTS	42	SER	1142.0	1145.0	27.8	325.0			
	3000	POTS	45	C	1142.0	1145.0	28.4	470.0			
	15000	KISV	23	GRF	1142.2	1156.5	23.6	25.0			
	610	SGMR	8	S	1143.0E	1143.0	U	62.0			QL=4 ST=3 TYP=3
	1415	SGMR	4	S/F	1143.0E	1144.0	4.0D	72.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	1143.0E	1144.0	3.0D	480.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1143.0E	1147.0	5.0D	300.0			QL=4 ST=2 TYP=3
	33	UPIC	32	ABS	1143.0	1152.5	41.0				
	15000	KISV	4	S/F	1143.3	1144.6	4.9	342.0			
	245	SGMR	8	S	1144.0E	1144.0	U	120.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1144.0E	1144.0	1.0D	330.0			QL=4 ST=3 TYP=3
	15400	SGMR	8	S	1144.0E	1144.0	U	450.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1144.0E	1144.0	1.0D	120.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1144.0E	1144.0	2.0D	300.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1144.0E	1146.0	8.0D	71.0			QL=4 ST=2 TYP=3
	808	ONDR	41	F	1144.1	1144.4	6.0	378.0			
	810	KRAK	8	S	1144.3	1144.3	1.0	320.0D			
	5900	KISV	4	S/F	1154.2	1156.3	5.2	26.0			
	9300	KISV	2	S/F	1154.8	1156.5	4.2	18.0			
	245	SGMR	8	S	1228.0E	1228.0	2.0D	190.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1229.0E	1229.0	1.0D	200.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1232.0E	1232.0	U	90.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1246.0E	1246.0	U	58.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1314.7	1315.2	1.3	14.0	7.0		
	9500	CUBA	2	S/F	1330.0	1331.0	3.5	7.0	3.0		
	245	SGMR	8	S	1435.0E	1435.0	1.0D	71.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1507.0	1516.8	26.5	91.0	24.0		16L
	2800	OTTA	4	S/F	1509.7	1515.3	23.3	50.9	15.0		
	9400	HUAN	45	C	1513.6	1516.5	16.2	85.9	46.4		
	15400	SGMR	4	S/F	1514.0E	1516.0	5.0D	56.0			QL=4 ST=2 TYP=5
	8800	SGMR	4	S/F	1514.0E	1516.0	6.0D	97.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1514.0E	1516.0	6.0D	73.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1514.0E	1515.0	5.0D	61.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1514.0E	1514.0	6.0D	66.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	1514.0E	1516.0	6.0D	71.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	1514.0E	1516.0	6.0D	78.0			QL=2 ST=2 TYP=3
	9500	CUBA	46	C	1514.1	1516.7	14.9	85.0	28.0		
	15000	CUBA	46	C	1514.4	1516.6	14.9	83.0	31.0		14R
	6700	CUBA	46	C	1616.9	1618.5	15.2	42.0	12.0		20L
	15400	SGMR	4	S/F	1617.0E	1618.0	3.0D	66.0			QL=4 ST=2 TYP=3
	15000	CUBA	46	C	1617.0	1618.4	14.3	87.0	19.0		11R
	9500	CUBA	4	S/F	1617.3	1618.4	7.6	46.0	17.0		
	2800	OTTA	3	S	1617.5	1618.9	9.9	21.2	6.0		
	2695	SGMR	8	S	1618.0E	1618.0	2.0D	27.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1618.0E	1618.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1618.0E	1618.0	1.0D	73.0			QL=2 ST=2 TYP=3

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MARCH 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
08	9500	CUBA	30	PBI	1624.9		12.1	7.0	3.0		
	245	PALE	8	S	1729.0E	1729.0	U	110.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1921.5	1923.0	14.5	96.0	34.0		14L
	2800	OTTA	4	S/F	1921.6	1923.1	16.5	92.9	28.0		
	9400	HUAN	45	C	1921.7	1922.8	13.8	105.0	52.6		
	1415	PALE	4	S/F	1922.0E	1923.0	3.0D	57.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1922.0E	1923.0	7.0D	120.0			QL=4 ST=2 TYP=3
	15000	CUBA	46	C	1922.0	1923.0	12.3	74.0	39.0		4R
	4995	PALE	4	S/F	1922.0E	1924.0	14.0D	110.0			QL=4 ST=2 TYP=3
	15000	CUBA	46	C	1922.0	1929.6		46.0			13R
	9500	CUBA	46	C	1922.5	1928.9		41.0			
	9500	CUBA	46	C	1922.5	1922.9	13.0D	92.0			1935 DOWN
	8800	PALE	4	S/F	1923.0E	1924.0	7.0D	75.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1925.0E	1925.0	6.0D	55.0			QL=4 ST=2 TYP=3
	9400	HUAN	21	GRF	1950.8	2036.3	76.6	26.7	12.4		
	9400	HUAN	45	C	2003.7	2005.3	7.0	345.7	132.4		
	6700	CUBA	47	GB	2005.0E	2041.0		296.0			4L
	6700	CUBA	47	GB	2005.0E	2006.0		260.0			45L
	4995	PALE	4	S/F	2005.0E	2005.0	3.0D	170.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2005.0E	2005.0	3.0D	280.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2005.0E	2005.0	2.0D	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	47	GB	2005.0	2027.5	38.0	2776.0			
	6700	CUBA	47	GB	2005.0E	2026.5U	40.0D	1292.0			21L
	9500	CUBA	47	GB	2005.0	2005.8		323.0			
	9500	CUBA	47	GB	2005.0	2040.9		104.0			
	15000	CUBA	2	S/F	2005.4	2006.4	4.0	141.0	27.0		63R
	9400	HUAN	45	C	2023.8	2026.0U	11.7	366.7	140.5		
	15400	PALE	49	GB	2025.0E	2027.0	6.0D	1900.0			QL=4 ST=2 TYP=7
	410	PALE	49	GB	2025.0E	2030.0	6.0D				QL=4 ST=2 TYP=7
	15400	SGMR	49	GB	2025.0E	2027.0	7.0D	2100.0			QL=4 ST=2 TYP=7
	8800	SGMR	49	GB	2025.0E	2027.0	7.0D	2900.0			QL=4 ST=2 TYP=7
	1415	PALE	49	GB	2025.0E	2027.0	14.0D	950.0			QL=4 ST=2 TYP=7
	2695	PALE	49	GB	2025.0E	2027.0	14.0D	2700.0			QL=4 ST=2 TYP=7
	4995	PALE	49	GB	2025.0E	2027.0	14.0D	3900.0			QL=4 ST=2 TYP=7
	8800	PALE	49	GB	2025.0E	2027.0	11.0D	2500.0			QL=4 ST=2 TYP=7
	1415	SGMR	49	GB	2025.0E	2027.0	14.0D	780.0			QL=4 ST=2 TYP=7
	2695	SGMR	49	GB	2025.0E	2027.0	14.0D	2900.0			QL=4 ST=2 TYP=7
	4995	SGMR	49	GB	2025.0E	2027.0	13.0D	4000.0			QL=4 ST=2 TYP=7
	15000	CUBA	47	GB	2025.3	2027.4	21.7	3217.0			9R
	15000	CUBA	47	GB	2025.3	2040.8		46.0			10R
	2800	OTTA	47	GB	2025.5	2027.5	29.3	3140.0	628.0		
	610	PALE	49	GB	2026.0E	2027.0	12.0D	2500.0			QL=4 ST=2 TYP=7
	610	SGMR	49	GB	2026.0E	2027.0	12.0D	2300.0			QL=4 ST=2 TYP=7
	410	PALE	49	GB	2029.0E	2030.0	1.0D				QL=4 ST=2 TYP=6
	245	PALE	49	GB	2029.0E	2032.0	3.0D	91000.0			QL=4 ST=2 TYP=7
	245	SGMR	49	GB	2029.0E	2031.0	3.0D	60000.0			QL=4 ST=2 TYP=7
	410	SGMR	49	GB	2029.0E	2030.0	2.0D				QL=4 ST=2 TYP=7
	280	CUBA	49	GB	2030.0	2031.0U	3.0	92389.0D			
	235	CUBA	48	C	2030.0	2031.0U	3.0	9870.0D			
	9400	HUAN	3	S	2039.7	2040.6	3.0	106.9	42.6		
	8800	PALE	8	S	2040.0E	2040.0	1.0D	95.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2040.0E	2041.0	3.0D	150.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2040.0E	2040.0	1.0D	62.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2040.0E	2041.0	2.0D	71.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2040.0E	2040.0	2.0D	140.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2040.0E	2041.0	4.0D	110.0			QL=4 ST=3 TYP=3
	4995	SGMR	8	S	2040.0E	2040.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2040.0E	2041.0	4.0D	72.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2040.0E	2041.0	4.0D	88.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2040.0E	2041.0	4.0D	49.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2040.0E	2040.0	1.0D	100.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	2040.2	2041.9	2.9	67.4	27.0		
	9400	HUAN	1	S	2044.8	2046.2	3.2	3.8	1.6		
	410	PALE	49	GB	2046.0E	2047.0	1.0D	580.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2046.0E	2047.0	1.0D	310.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	2046.0E	2047.0	1.0D	52.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2046.0E	2047.0	1.0D	460.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2046.0E	2047.0	1.0D	280.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2048.3	2048.6	0.9	28.4	9.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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
08	2800	OTTA	31	ABS	2054.8	2106.0	30.6	7.3	3.0		
	410	SGMR	8	S	2143.0E	2144.0	1.0D	58.0			QL=4 ST=2 TYP=3
09	245	LEAR	44	NS	0214.0E	0628.0	326.0D	100.0			QL=2 ST=3 TYP=1
	100	GORK	44	NS	0431.0E		420.0D		5.0		
	200	GORK	44	NS	0432.0E		420.0D		5.0		
	245	SVTO	44	NS	0538.0E	0538.0	1102.0D	120.0			QL=2 ST=1 TYP=1
	204	IZMI	43	NS	0600.0		360.0	20.0			
	234	POTS	44	NS	0635.0E	1046.0	507.0D	40.0			
	127	TORN	43	NS	0640.0		500.0		50.0		V=2
	430	KRAK	44	NS	0804.0E	1024.3U	360.0D	215.0D	2.0		
	536	ONDR	44	NS	0900.0E	1024.0	320.0D	117.0			
	260	ONDR	44	NS	0900.0E	1025.0	340.0D	125.0			
	113	POTS	43	NS	0954.0	1045.0	307.0D	40.0			
	245	SGMR	44	NS	1247.0E	2205.0	573.0D	240.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1314.0E		520.0D		31.0		
	280	CUBA	44	NS	1314.0E		520.0D		38.0		
	245	PALE	44	NS	1929.0E	2205.0	534.0D	160.0			QL=4 ST=2 TYP=1
	100	HIRA	44	NS	2110.0E	2314.0	690.0D	100.0	50.0		ML
	200	HIRA	44	NS	2110.0E	2301.6	690.0D	50.0	10.0		ML
	245	LEAR	8	S	0103.0E	0103.0	1.0D	86.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0151.0E	0151.0	1.0D	75.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0203.0E	0203.0	U	110.0			QL=2 ST=2 TYP=3
	2840	PEKG	1	S	0416.0	0416.8	4.0	7.5			
	9100	GORK	21	GRF	0600.0	0716.5	330.0D	30.0			
	650	GORK	23	GRF	0602.6	0746.7	327.0D	17.0			
	950	GORK	23	GRF	0604.1	0704.0	326.0D	12.0			
	5900	KISV	23	GRF	0604.6	0626.6	96.3	41.0			
	2950	GORK	21	GRF	0607.2	0729.7	273.3	27.0			
	650	GORK	46	C	0609.5	0611.5	8.2	8.0			
	950	GORK	3	S	0609.5	0609.5	0.4	9.0			
	650	GORK	46	C	0609.5	0612.8		12.0			
	9300	KISV	23	GRF	0612.7	0726.4	180.0	33.0			
	650	GORK	46	C	0633.6	0637.3		13.0			
	650	GORK	46	C	0633.6	0634.4	4.5	10.0			
	500	HIRA	46	C	0635.0	0702.5	42.0	380.0	150.0		WL
	600	HUMN	45	C	0647.0	0704.0	31.0	103.0	16.0		
	113	POTS	27	RF	0655.0	0725.0	136.0	85.0			
	200	GORK	41	F	0700.0	0759.0		20.0D			
	610	LEAR	4	S/F	0700.0E	0703.0	8.0D	210.0			QL=4 ST=2 TYP=3
	100	GORK	46	C	0700.0	0811.6		370.0			
	100	GORK	46	C	0700.0	0725.7	69.1	370.0			
	200	GORK	41	F	0700.0	0720.7	89.5	20.0D			
	650	GORK	46	C	0700.2	0703.3	14.2	50.0			
	650	GORK	46	C	0700.2	0711.6		15.0			
	950	GORK	3	S	0704.6	0705.1	0.6	12.0			
	2850	CRIM	20	GRF	0706.0	0716.5	47.0	11.3	3.0		
	40	POTS	27	RF	0715.0	0754.0	135.0U	U			
	204	IZMI	41	F	0718.5	0719.0	1.0	16.0			
	600	HUMN	45	C	0724.0	0734.0	43.0	95.0	20.0		
	650	GORK	46	C	0728.2	0739.2		65.0			
	650	GORK	46	C	0728.2	0734.2	16.1	90.0			
	950	GORK	46	C	0728.9	0732.1	17.9	30.0			
	950	GORK	46	C	0728.9	0737.3		53.0			
	950	GORK	46	C	0728.9	0740.3		28.0			
	500	HIRA	21	GRF	0729.1	0739.0	36.0	120.0	40.0		ML
	610	LEAR	4	S/F	0730.0E	0733.0	13.0D	160.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0734.0E	0735.0	1.0D	77.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0734.0E	0735.0	1.0D	66.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0749.0E	0752.0	6.0D	80.0			QL=4 ST=2 TYP=3
	650	GORK	46	C	0749.2	0750.4	6.8	23.0			
	650	GORK	46	C	0749.2	0753.9		30.0			
	1470	POTS	40	F	0757.5	0809.8	25.1	28.0			
	245	LEAR	8	S	0804.0E	0805.0	1.0D	75.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0811.0E	0812.0	2.0D	340.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	0811.9	0813.3	3.2	159.0	53.0		
	610	SVTO	8	S	0812.0E	0812.0	1.0D	260.0			QL=4 ST=2 TYP=3
	9500	POTS	3	S	0812.5	0813.0	4.5	95.0			
	245	LEAR	8	S	0815.0E	0816.0	1.0D	88.0			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

MARCH 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	33	UPIC	4	S/F	0830.2	0830.4	0.6				
	5900	KISV	4	S/F	0841.8	0842.8	3.5	86.0			
	3013	IZMI	5	S	0842.0	0843.0	3.0	27.0	14.0		
	4995	LEAR	8	S	0842.0E	0842.0	1.0D	57.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0842.0E	0842.0	1.0D	58.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0842.0E	0842.0	918.0D	44.0			QL=2 ST=1 TYP=3
	9300	KISV	4	S/F	0842.1	0842.8	4.2	88.0			
	2950	GORK	4	S/F	0842.3	0842.8	2.4	23.0			
	2850	CRIM	3	S	0842.3	0842.9	2.5	32.8	10.0		
	15000	KISV	2	S/F	0842.4	0842.8	2.2	28.0			
	9100	GORK	3	S	0842.4	0842.9	2.9	70.0			
	1470	POTS	3	S	0842.4	0842.9	1.6	10.0			
	950	GORK	1	S	0842.5	0843.0	3.7	5.0			
	600	HUMN	2	S/F	0843.2	0843.3	0.6	26.0	8.0		
	600	HUMN	2	S/F	0847.6	0847.9	0.7	22.0	6.0		
	245	LEAR	8	S	0955.0E	0955.0	U	52.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	1000.0E	1001.0	2.0D	130.0			QL=2 ST=2 TYP=3
	808	ONDR	41	F	1000.0	1103.2	260.0	20.0			
	204	IZMI	41	F	1000.6	1002.0	2.0	590.0			
	33	UPIC	4	S/F	1000.8	1001.1	0.7				
	245	LEAR	8	S	1007.0E	1007.0	1.0D	55.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	1011.0E	1014.0	3.0D	510.0			QL=2 ST=2 TYP=7
	200	GORK	41	F	1018.0	1044.0		520.0			
	113	POTS	42	SER	1018.0	1028.0	38.7	350.0			
	200	GORK	41	F	1018.0	1019.5	27.9	240.0			
	245	LEAR	49	GB	1020.0E	1029.0	10.0D	520.0			QL=2 ST=2 TYP=7
	3000	POTS	40	F	1022.4E	1024.0U	7.6D	18.0			
	5900	KISV	2	S/F	1022.5	1023.4	2.7	15.0			
	3013	IZMI	5	S	1022.5	1023.6	1.0	10.0	5.0		
	2950	GORK	2	S/F	1022.7	1023.4	1.5	11.0			
	2850	CRIM	1	S	1022.8	1023.5	1.2	16.0	5.0		
	9100	GORK	1	S	1022.9	1023.4	1.2	7.0			
	410	LEAR	8	S	1023.0E	1024.0	1.0D	140.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	1023.2	1023.5	4.2	10.0			
	100	GORK	41	F	1024.4	1047.2		240.0			
	100	GORK	41	F	1024.4	1038.6	31.9	980.0			
	234	POTS	42	SER	1027.7	1028.1	11.3	2900.0			
	204	IZMI	41	F	1042.0	1043.0	2.0	1400.0			
	5900	KISV	2	S/F	1123.4	1126.2	8.5	6.0			
	9300	KISV	2	S/F	1124.8	1126.3	8.0	5.0			
	245	SGMR	8	S	1201.0E	1201.0	U	60.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1239.9	1244.3	11.9	64.7	28.6		
	9300	KISV	4	S/F	1240.1	1245.1	7.7	74.0			
	5900	KISV	4	S/F	1240.6	1244.5	7.2	84.0			
	4995	SVTO	4	S/F	1241.0E	1242.0	4.0D	85.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1241.0E	1242.0	4.0D	57.0			QL=4 ST=2 TYP=3
	3000	POTS	42	SER	1241.0U	1243.0U	10.0U	28.0			
	1470	POTS	29	PBI	1241.0	1245.4	6.7	9.0			
	9500	POTS	29	PBI	1241.4	1245.2	13.0	60.0			
	15000	KISV	2	S/F	1241.9	1245.1	8.3	48.0			
	9500	CUBA	46	C	1241.9	1245.3	10.1	60.0	18.0		
	2695	SGMR	8	S	1242.0E	1242.0	U	57.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1242.0E	1242.0	3.0D	80.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1242.0E	1245.0	3.0D	59.0			QL=2 ST=2 TYP=3
	600	HUMN	2	S/F	1243.0	1245.0	2.5	7.0	3.0		
	8800	SGMR	8	S	1244.0E	1245.0	1.0D	52.0			QL=4 ST=2 TYP=3
	9300	KISV	29	PBI	1247.8E	1247.8	7.0D	12.0			
	5900	KISV	29	PBI	1247.8E	1247.8	6.3D	25.0			
	9400	HUAN	45	C	1410.3	1419.2	16.5	158.8	70.4		
	9500	CUBA	46	C	1410.5	1419.1	23.5	158.0	21.0		
	3000	POTS	42	SER	1410.6U	1412.5U	19.0U	95.0			
	2695	SGMR	8	S	1411.0E	1412.0	2.0D	130.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1411.0E	1412.0	2.0D	71.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1411.0E	1412.0	3.0D	130.0			QL=4 ST=2 TYP=3
	1470	POTS	49	GB	1411.0	1413.0	26.2	60.0			
	9500	POTS	42	SER	1411.5	1418.9	18.5	149.0			
	600	HUMN	2	S/F	1412.0	1413.0	5.0	35.0	10.0		
	1415	SGMR	4	S/F	1412.0E	1412.0	5.0D	70.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1412.0E	1412.0	1.0D	1500.0			QL=4 ST=2 TYP=6

S O L A R R A D I O E M I S S I O N
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MARCH 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	610	SGMR	4	S/F	1412.0E	1412.0	5.0D	39.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1412.0E	1412.0	1.0D	77.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1412.0E	1413.0	2.0D	59.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1417.0E	1417.0	1.0D	54.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1417.0E	1419.0	6.0D	110.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1417.0E	1419.0	6.0D	61.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	1417.1	1419.2	12.6	51.7	21.0		
	8800	SVTO	4	S/F	1418.0E	1419.0	3.0D	97.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	1418.0E	1419.0	582.0D	100.0			QL=4 ST=1 TYP=3
	1415	SGMR	8	S	1419.0E	1419.0	1.0D	38.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1419.0E	1419.0	1.0D	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1642.0E	1642.0	1.0D	220.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1642.0E	1642.0	1.0D	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1645.0E	1646.0	1.0D	130.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1645.0E	1646.0	2.0D	60.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1712.0	1957.0	318.0D	13.0			SUNSET
	9400	HUAN	20	GRF	1900.0	1908.2	23.9	11.8	4.8		
	410	PALE	8	S	1915.0E	1915.0	U	49.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1940.8	1944.6	7.0	9.8	4.2		
	9400	HUAN	2	S/F	1955.7	1957.8	5.6	5.9	2.8		
	410	PALE	49	GB	2101.0E	2102.0	1.0D	1800.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	2101.0E	2102.0	2.0D	160.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2101.3	2104.1	9.6	20.5	6.0		
	2695	PALE	8	S	2103.0E	2104.0	1.0D	28.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2136.0E	2137.0	1.0D	87.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	2137.3	2144.0	10.7	257.0	37.0		
	9400	HUAN	45	C	2137.5	2143.6	16.8	243.1	116.4		
	2800	OTTA	3	S	2137.8	2138.9	3.9	74.6	22.0		
	8800	PALE	8	S	2138.0E	2139.0	2.0D	62.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2138.0E	2139.0	2.0D	100.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2138.0E	2139.0	2.0D	37.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2138.0E	2138.0	2.0D	80.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2139.0E	2139.0	U	24.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2142.0E	2144.0	4.0D	72.0			QL=2 ST=2 TYP=3
	2800	OTTA	3	S	2142.2	2144.8	15.6	145.4	29.0		
	8800	SGMR	4	S/F	2143.0E	2144.0	3.0D	150.0			QL=2 ST=2 TYP=3
	15400	SGMR	4	S/F	2143.0E	2144.0	3.0D	140.0			QL=4 ST=3 TYP=3
	4995	SGMR	4	S/F	2143.0E	2144.0	3.0D	170.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	2143.0E	2144.0	3.0D	140.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	2144.0E	2144.0	2.0D	74.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	2144.0E	2144.0	U	850.0			QL=2 ST=2 TYP=6
	410	LEAR	4	S/F	2333.0E	2334.0	3.0D	95.0			QL=4 ST=2 TYP=3
10	100	GORK	44	NS	0431.0E		420.0D		5.0		
	200	GORK	44	NS	0432.0E		420.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	45.0			
	127	TORN	44	NS	0630.0E		510.0D		30.0		V=1
	260	ONDR	44	NS	0900.0E	1107.2	340.0D				
	245	SGMR	44	NS	1125.0E	1543.0	657.0D	470.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1314.0E		516.0D		50.0		
	235	CUBA	44	NS	1314.0E		516.0D		45.0		
	245	SVTO	44	NS	1338.0E	1356.0U	124.0D	170.0			QL=2 ST=2 TYP=1
	245	PALE	44	NS	1734.0E	2100.0	649.0D	240.0			QL=4 ST=2 TYP=1
	100	HIRA	44	NS	2110.0E	0430.0	690.0D	30.0	10.0		WL
	200	HIRA	44	NS	2110.0E	0244.0	690.0D	70.0	30.0		O
	245	LEAR	4	S/F	0133.0E	0133.0	3.0D	240.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0133.0E	0133.0	1.0D	230.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0157.0E	0157.0	U	230.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0157.0E	0157.0	U	210.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0306.0E	0306.0	1.0D	90.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0306.0E	0306.0	1.0D	66.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0313.0E	0315.0	2.0D	95.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0313.0E	0314.0	1.0D	140.0			QL=2 ST=2 TYP=3
	200	GORK	3	S	0436.0	0436.2	0.9	25.0D			
	100	GORK	4	S/F	0436.8	0437.3	1.0	120.0			
	9100	GORK	23	GRF	0513.0	0700.0	377.0D	20.0			
	9300	KISV	45	C	0519.1	0525.4		8.0			
	9300	KISV	45	C	0519.1	0521.4	11.0	12.0			
	5900	KISV	2	S/F	0519.7	0521.9	8.6	10.0			

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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
10	9100	GORK	3	S	0520.2	0521.5	3.0	10.0			
	9300	KISV	2	S/F	0544.1	0548.5	8.4	6.0			
	3013	IZMI	40	F	0557.0	0605.0	12.0	4.0			
	2840	PEKG	5	S	0557.0	0605.0	27.0	14.8			
	5900	KISV	22	GRF	0557.3	0558.5	18.4	5.0			
	2950	GORK	22	GRF	0558.2	0604.8	7.6	5.1			
	200	GORK	46	C	0627.3	0628.5	2.1	270.0			
	200	GORK	46	C	0627.3	0628.8		550.0			
	100	GORK	46	C	0627.9	0628.6	1.2	920.0			
	100	GORK	46	C	0627.9	0628.9		400.0			
	204	IZMI	41	F	0628.0	0629.0	1.0	500.0			
	113	POTS	4	S/F	0628.1	0628.2U	1.6	1400.0D			
	245	SVTO	8	S	0631.0E	0631.0	1.0D	65.0			QL=2 ST=2 TYP=3
	2840	PEKG	1	S	0632.0	0634.3	5.0	8.1			
	3013	IZMI	5	S	0632.5	0634.0	2.5	4.0	2.0		
	2950	GORK	20	GRF	0632.7	0709.6	140.7	10.0			
	9100	GORK	46	C	0638.0	0639.5	220.0	40.0			
	9100	GORK	46	C	0638.0	0646.7		20.0			
	15000	KISV	45	C	0638.3	0639.0	4.3	22.0			
	15000	KISV	23	GRF	0638.3	0648.2	19.1	15.0			
	9300	KISV	23	GRF	0638.3	0647.3	50.2	28.0			
	9300	KISV	45	C	0638.3	0639.5	4.9	44.0			
	15000	KISV	45	C	0638.3	0639.6		22.0			
	9300	KISV	45	C	0638.3	0638.9		42.0			
	5900	KISV	23	GRF	0643.3	0648.0	44.0U	24.0			
	245	SVTO	8	S	0655.0E	0655.0	1.0D	200.0			QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	0657.0	0658.2	4.3	10.0			
	245	SVTO	8	S	0710.0E	0710.0	1.0D	260.0			QL=2 ST=2 TYP=3
	5900	KISV	22	GRF	0801.9	0810.3	48.1	13.0			
	204	IZMI	41	F	0807.0	0807.5	1.2	220.0			
	410	SVTO	8	S	0850.0E	0852.0	2.0D	53.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0850.0E	0852.0	3.0D	79.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0851.0E	0852.0	1.0D	81.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0851.0E	0852.0	1.0D	34.0			QL=4 ST=2 TYP=3
	9300	KISV	20	GRF	0936.7	0937.0	10.3	4.0			
	5900	KISV	21	GRF	1025.0	1035.0	17.0	8.0			
	100	GORK	41	F	1028.4	1059.1		130.0			
	100	GORK	41	F	1028.4	1033.7	33.4	35.0D			
	9300	KISV	20	GRF	1031.1	1035.2	12.9	8.0			
	200	GORK	41	F	1035.8	1036.4	260.0	25.0D			
	200	GORK	41	F	1035.8	1100.6		180.0			
	5900	KISV	23	GRF	1058.6	1111.5	20.5	4.0			
	1470	POTS	29	PBI	1100.0	1101.4	20.0	6.0			
	3013	IZMI	5	S	1100.0	1101.5	4.0	13.0	6.0		
	2850	CRIM	1	S	1100.2	1101.9	3.0	18.0	5.0		
	9300	KISV	21	GRF	1100.4	1102.3	30.0	18.0			
	3000	POTS	29	PBI	1100.5	1101.6	32.0	18.0			
	9100	GORK	2	S/F	1100.6	1102.2	3.3	15.0			
	5900	KISV	4	S/F	1100.6	1102.3	6.0	19.0			
	950	GORK	1	S	1100.9	1101.6	1.8	2.0			
	9500	POTS	29	PBI	1101.0	1102.3	32.0	16.0			
	2950	GORK	1	S	1101.8U	1102.1	2.0D	12.7			
	245	SVTO	8	S	1107.0E	1107.0	1.0D	200.0			QL=2 ST=2 TYP=3
	15000	KISV	2	S/F	1110.0	1110.4	2.2	18.0			
	15000	KISV	2	S/F	1113.9	1114.2	3.4	18.0			
	15000	KISV	45	C	1124.8	1125.1	8.5	35.0			
	15000	KISV	45	C	1124.8	1128.7		29.0			
	245	SVTO	8	S	1143.0E	1143.0	U	97.0			QL=2 ST=2 TYP=3
	234	POTS	4	S/F	1156.1	1156.1	1.0	100.0			
	113	POTS	4	S/F	1156.2	1156.3	0.5	3100.0D			
	9300	KISV	2	S/F	1156.5	1157.8	9.0	12.0			
	5900	KISV	2	S/F	1203.1	1203.8	7.9	11.0			
	15000	KISV	2	S/F	1226.4	1227.6	5.9	19.0			
	245	SGMR	8	S	1246.0E	1246.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1246.0E	1246.0	U	150.0			QL=2 ST=2 TYP=3
	9300	KISV	2	S/F	1252.0	1257.3	7.1	8.0			
	5900	KISV	2	S/F	1252.2	1257.4	8.3	9.0			
	9400	HUAN	20	GRF	1305.1	1322.0	32.9	7.6	3.8		
	245	SGMR	8	S	1312.0E	1313.0	1.0D	250.0			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
10	245	SVTO	8	S	1312.0E	1313.0	1.0D	280.0			QL=2 ST=2 TYP=3
	234	POTS	4	S/F	1312.5	1313.0	1.1	1000.0			
	1470	POTS	2	S/F	1312.7	1313.1	1.3	6.0			
	2800	OTTA	3	S	1506.4	1509.3	31.5	96.2	19.0		
	2695	SGMR	4	S/F	1508.0E	1509.0	4.0D	85.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1508.0E	1508.0	1.0D	26.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1508.0E	1508.0	4.0D	82.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1508.0E	1509.0	4.0D	93.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1508.0E	1508.0	2.0D	84.0			QL=2 ST=2 TYP=3
	9500	CUBA	2	S/F	1508.1	1508.9	2.9	19.0	9.0		
	9500	CUBA	22	GRF	1526.0	1532.0	12.0	12.0	6.0		
	9400	HUAN	2	S/F	1528.2	1532.0	8.4	7.7	2.9		
	245	SGMR	49	GB	1620.0E	1622.0	2.0D	920.0			QL=4 ST=2 TYP=6
	9500	CUBA	22	GRF	1621.0	1641.0	43.0	16.0	8.0		
	9400	HUAN	1	S	1647.4	1648.7	4.0	15.4	6.2		
	9400	HUAN	1	S	1724.0	1725.8	4.7	7.7	2.8		
	2800	OTTA	3	S	1752.7	1755.1	40.0	85.2	17.0		
	9400	HUAN	4	S/F	1753.0	1756.0	6.7	273.3	102.4		
	9500	CUBA	46	C	1753.5	1756.0	34.5	243.0	34.0		
	9500	CUBA	46	C	1753.5	1821.5		90.0			
	2695	PALE	4	S/F	1754.0E	1755.0	3.0D	61.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1754.0E	1756.0	3.0D	180.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1754.0E	1754.0	4.0D	130.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1754.0E	1755.0	4.0D	250.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1754.0E	1755.0	4.0D	76.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1754.0E	1754.0	4.0D	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1754.0E	1755.0	4.0D	180.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1754.0E	1756.0	366.0D	38.0			QL=4 ST=1 TYP=3
	15400	PALE	8	S	1755.0E	1755.0	2.0D	110.0			QL=4 ST=2 TYP=3
	9400	HUAN	30	PBI	1759.7	1759.7	40.3	10.6	4.6		
	2800	OTTA	3	S	1805.2	1810.8	10.9	41.7	17.0		
	4995	SGMR	4	S/F	1809.0E	1813.0	5.0D	52.0			QL=4 ST=2 TYP=5
	2695	SGMR	4	S/F	1809.0E	1810.0	3.0D	47.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1809.5	1821.4		94.3			
	9400	HUAN	4	S/F	1809.5	1813.7	17.0	69.3	38.9		
	8800	SGMR	4	S/F	1810.0E	1813.0	6.0D	83.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1812.0E	1813.0	4.0D	47.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1813.0E	1813.0	1.0D	23.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1816.0E	1821.0	8.0D	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1816.0E	1821.0	8.0D	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1816.0E	1821.0	8.0D	100.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1818.0E	1821.0	6.0D	94.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1818.0E	1821.0	7.0D	110.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	1818.2	1821.7	8.1	41.2	16.0		
	15400	SGMR	4	S/F	1819.0E	1821.0	5.0D	79.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1820.0E	1821.0	2.0D	34.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1820.0E	1821.0	3.0D	41.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1821.0E	1821.0	U	30.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1821.0E	1821.0	U	31.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2003.8	2006.1	4.8	15.5	8.0		
	410	PALE	8	S	2005.0E	2005.0	1.0D	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2125.0E	2125.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	2237.0	2240.0	3.0D	310.0			QL=4 ST=2 TYP=3
	2695	PENT	3	S	2237.0	2240.6	5.5	15.0	6.0		
	500	HIRA	42	SER	2237.5	2239.7	7.0	300.0			WL
	410	LEAR	8	S	2238.0	2240.0	2.0D	180.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	2239.0	2240.0	1.0D	65.0			QL=4 ST=2 TYP=3
11	200	GORK	44	NS	0433.0E		500.0D		5.0		
	100	GORK	44	NS	0433.0E		520.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	25.0			
	127	TORN	44	NS	0630.0E		510.0D		3.0		V=2,DISTURBED
	234	POTS	44	NS	0630.0E	0732.0	352.0D	45.0			
	245	SVTO	44	NS	0639.0E	0741.0	213.0D	120.0			QL=2 ST=2 TYP=1
	113	POTS	43	NS	0640.0	0712.0	230.0	15.0			
	260	ONDR	44	NS	0900.0E	1038.4	340.0D	343.0			
	235	CUBA	44	NS	1403.0E		417.0D		18.0		
	280	CUBA	44	NS	1403.0E		417.0D		30.0		
	245	PALE	44	NS	2319.0E	0134.0	170.0D	300.0			QL=4 ST=2 TYP=1

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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
11	245	LEAR	44	NS	2323.0E	0209.0	664.0D	310.0			QL=4 ST=2 TYP=1
	200	HIRA	43	NS	2330.0	2356.0	545.0D	150.0	15.0		WL
	2695	PENT	3	S	0052.9	0053.4	5.9	38.7	15.0		
	410	LEAR	8	S	0116.0E	0116.0	2.0D	65.0			QL=4 ST=2 TYP=3
	500	HIRA	6	S	0241.0	0242.2	2.0	15.0	6.0		WL
	410	PALE	8	S	0241.0E	0242.0	1.0D	42.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0242.0E	0242.0	U	780.0			QL=2 ST=2 TYP=6
	1415	PALE	8	S	0242.0E	0242.0	U	51.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0246.0E	0246.0	1.0D	120.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0246.0E	0246.0	1.0D	63.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0315.0E	0315.0	1.0D	71.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0329.0E	0329.0	U	150.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0329.0E	0329.0	U	29.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0329.0E	0329.0	U	90.0			QL=4 ST=2 TYP=3
	500	HIRA	6	S	0329.0	0329.3	1.0	240.0	150.0		0
	2840	PEKG	21	GRF	0357.0	0405.0	25.0	2.3			
	200	HIRA	46	C	0402.6	0403.6	4.0	660.0	200.0		ML
	100	HIRA	46	C	0402.8	0405.3	4.0	1000.0D			
	500	HIRA	6	S	0403.5	0405.0	2.5	26.0	10.0		WL
	410	LEAR	8	S	0404.0E	0405.0	1.0D	73.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0404.0E	0405.0	1.0D	52.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0404.0	0405.5	2.0	7.7			
	610	LEAR	8	S	0430.0E	0430.0	U	67.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0447.0E	0449.0	4.0D	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0447.0	0448.2	3.0	8.0			
	950	GORK	2	S/F	0447.4	0447.8	2.6	10.0			
	650	GORK	46	C	0447.6	0449.0		10.0			
	650	GORK	46	C	0447.6	0448.0	2.4	7.0			
	410	LEAR	8	S	0451.0E	0451.0	U	78.0			QL=4 ST=2 TYP=3
	200	GORK	3	S	0508.3	0508.4	0.4	520.0			
	100	GORK	3	S	0508.3	0508.4	0.4	500.0			
	2840	PEKG	20	GRF	0529.0	0549.3	44.0	8.8			
	200	GORK	46	C	0531.1	0532.3		290.0			
	200	GORK	46	C	0531.1	0531.4	1.4	190.0			
	100	GORK	46	C	0531.2	0532.4	2.3	1600.0			
	100	GORK	46	C	0531.2	0532.7		750.0			
	5900	KISV	21	GRF	0543.7	0603.2		6.0			
	5900	KISV	21	GRF	0543.7	0551.4	24.9	6.0			
	9100	GORK	23	GRF	0611.8	0642.3	412.0D	22.0			
	9300	KISV	21	GRF	0613.0	0613.7	8.8	6.0			
	5900	KISV	23	GRF	0613.2	0649.4	99.5	20.0			
	9300	KISV	23	GRF	0629.5	0656.5	80.5	23.0			
	950	GORK	22	GRF	0632.5	0646.5	31.3U	7.0			
	650	GORK	23	GRF	0632.6	0739.0	141.3	25.0			
	2840	PEKG	20	GRF	0634.0	0642.5	32.0	12.0			
	15000	KISV	23	GRF	0637.3	0649.7	79.7	120.0			
	3013	IZMI	7	C	0639.0	0642.0	15.0	5.0			
	2950	GORK	23	GRF	0639.3	1044.8	382.6	15.0			
	100	GORK	41	F	0648.3	0735.0		120.0			
	100	GORK	41	F	0648.3	0650.1	47.7	35.0D			
	2840	PEKG	45	C	0726.0	0733.3	16.0	196.1			
	5900	KISV	47	GB	0727.5	0732.6	7.8	170.0			
	5900	KISV	47	GB	0727.5	0739.8		154.0			
	3013	IZMI	7	C	0728.0	0732.8	12.0	68.0	34.0		
	2850	CRIM	3	S	0730.0	0733.1	12.0	188.0	60.0		
	1470	POTS	4	S/F	0730.2	0733.5U	16.2	150.0			
	15000	KISV	4	S/F	0730.2	0732.7	5.8	420.0			
	2950	GORK	4	S/F	0730.3	0733.2	10.6	160.0			
	9100	GORK	4	S/F	0730.4	0732.6	8.6	215.0			
	3000	POTS	4	S/F	0730.4	0732.9	16.1	136.0			
	9300	KISV	45	C	0730.6	0733.0		168.0			
	9300	KISV	45	C	0730.6	0732.6	6.1	226.0			
	950	GORK	29	PBI	0730.8	0739.0	19.3	28.0			
	950	GORK	5	S	0730.8	0733.9	8.2	107.0			
	8800	LEAR	4	S/F	0731.0E	0732.0	4.0D	180.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	0731.0E	0733.0	6.0D	200.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0731.0E	0732.0	4.0D	120.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	0731.0E	0733.0	6.0D	180.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0731.0E	0732.0	4.0D	130.0			QL=2 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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	8800	SVTO	4	S/F	0731.0E	0732.0	4.0D	180.0			QL=2 ST=2 TYP=3
	600	HUMN	2	S/F	0731.4	0732.3	19.7	37.0	9.0		
	9500	POTS	4	S/F	0731.4	0732.6	7.8	190.0			
	500	HIRA	45	C	0731.5	0732.0	9.3	2500.0	150.0		ML
	650	GORK	4	S/F	0731.6	0734.3	7.4	60.0			
	610	LEAR	4	S/F	0732.0E	0734.0	6.0D	63.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0732.0E	0733.0	7.0D	140.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0732.0E	0732.0	3.0D	290.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0732.0E	0732.0	1.0D	1400.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0732.0E	0732.0	1.0D	620.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	0732.0E	0732.0	1.0D	1000.0			QL=4 ST=2 TYP=6
	610	SVTO	4	S/F	0732.0E	0734.0	7.0D	65.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0732.0E	0732.0	3.0D	250.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0732.0E	0733.0	8.0D	130.0			QL=4 ST=2 TYP=3
	17000	NOBE	4	S/F	0732.0	0732.7	9.0	164.0			R,80,35GHz:0
	204	IZMI	4	S/F	0732.5	0732.7	0.6	360.0			
	245	SVTO	8	S	0742.0E	0742.0	1.0D	300.0			QL=2 ST=2 TYP=3
	2850	CRIM	31	ABS	0742.0	0752.0	18.0	5.0	3.0		
	100	GORK	41	F	0757.5	0806.0		750.0			
	100	GORK	41	F	0757.5	0758.7	50.5	1200.0			
	100	GORK	41	F	0757.5	0846.8		190.0			
	200	GORK	41	F	0758.4	0806.0	78.4	390.0			
	5900	KISV	20	GRF	0758.4	0812.3	33.0	16.0			
	200	GORK	41	F	0758.4	0916.5		260.0			
	9300	KISV	20	GRF	0801.8	0812.3	25.1	7.0			
	245	LEAR	8	S	0805.0E	0806.0	1.0D	480.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0805.0E	0806.0	1.0D	440.0			QL=2 ST=2 TYP=3
	950	GORK	23	GRF	0838.0	0845.9	15.9	4.0			
	430	KRAK	42	SER	0839.8	0846.2	8.5	124.0			
	2850	CRIM	1	S	0842.1	0845.1	5.0	25.0	8.0		
	33	UPIC	4	S/F	0842.2	0842.7	1.6				
	5900	KISV	21	GRF	0842.4	0846.1	15.1	9.0			
	9300	KISV	20	GRF	0842.4	0846.2	12.3	5.0			
	2950	GORK	46	C	0844.7	0845.1	2.2	13.4			
	2950	GORK	46	C	0844.7	0846.2		17.0			
	410	LEAR	8	S	0845.0E	0846.0	1.0D	69.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0845.0E	0846.0	1.0D	41.0			QL=4 ST=2 TYP=3
	650	GORK	41	F	0845.8	0846.0	2.8	35.0			
	650	GORK	41	F	0845.8	0847.0		35.0			
	950	GORK	46	C	0845.9	0846.0	2.5	11.0			
	950	GORK	46	C	0845.9	0846.5		13.0			
	245	LEAR	8	S	0846.0E	0846.0	U	37.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0846.0E	0846.0	U	75.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	0848.0	0848.5	4.0	27.0	7.0		
	536	ONDR	41	F	0903.0	0906.8	237.0	370.0			
	5900	KISV	29	PBI	0903.9	0909.0	16.2	20.0			
	5900	KISV	4	S/F	0903.9	0908.2	5.1	63.0			
	2950	GORK	46	C	0904.3	0905.5	7.7	36.0			
	2950	GORK	46	C	0904.3	0908.8		74.0			
	3000	POTS	29	PBI	0904.5	0907.6	68.5	74.0			
	9300	KISV	23	GRF	0904.7	0911.6	26.3	11.0			
	3013	IZMI	41	F	0905.0	0908.0	8.0	60.0			
	950	GORK	21	GRF	0905.0E	0910.0	27.8D	8.0			
	1470	POTS	29	PBI	0905.0	0908.4	17.6	41.0			
	650	GORK	21	GRF	0905.4	0910.0	30.6	2.0			
	9500	POTS	29	PBI	0906.6	0908.4	13.6	30.0			
	9300	KISV	4	S/F	0906.8	0908.2	3.4	32.0			
	9100	GORK	2	S/F	0906.9	0908.2	3.0	27.0			
	1415	LEAR	4	S/F	0907.0E	0908.0	3.0D	41.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0907.0E	0908.0	3.0D	83.0			QL=2 ST=2 TYP=3
	4995	LEAR	4	S/F	0907.0E	0907.0	3.0D	53.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0907.0E	0908.0	2.0D	8.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0907.0E	0908.0	1.0D	70.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0907.0E	0908.0	1.0D	32.0			QL=2 ST=2 TYP=3
	15000	KISV	2	S/F	0907.0	0908.2	3.4	12.0			
	650	GORK	1	S	0907.6	0908.3	2.4	4.5			
	950	GORK	1	S	0907.6	0908.3	2.4	17.0			
	8800	LEAR	8	S	0908.0E	0908.0	2.0D	21.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	0908.0E	0908.0	1.0D	37.0			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

MARCH 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	100	GORK	46	C	0916.0	0916.4	5.7	1400.0			
	100	GORK	46	C	0916.0	0920.6		340.0			
	9300	KISV	23	GRF	1035.7	1044.8	13.0	10.0			
	5900	KISV	46	C	1036.0	1042.8		12.0			
	5900	KISV	46	C	1036.0	1044.8		12.0			
	5900	KISV	46	C	1036.0	1037.8	11.3	23.0			
	245	SVTO	49	GB	1037.0E	1037.0	8.0D	2300.0			QL=2 ST=2 TYP=6
	15400	SVTO	8	S	1037.0E	1037.0	2.0D	65.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	1037.0E	1037.0	8.0D	74.0			QL=2 ST=2 TYP=3
	9300	KISV	4	S/F	1037.0	1037.8	5.0	80.0			
	9100	GORK	2	S/F	1037.2	1037.8	2.7	83.0			
	100	GORK	41	F	1037.3	1118.7		370.0			
	100	GORK	41	F	1037.3	1037.9	54.1	250.0			
	200	GORK	41	F	1037.4	1044.1		350.0			
	200	GORK	41	F	1037.4	1107.2		520.0			
	234	POTS	4	S/F	1037.4	1037.6	1.9	3000.0			
	200	GORK	41	F	1037.4	1037.9	30.0	1200.0			
	950	GORK	1	S	1037.5	1038.0	2.0	6.0			
	430	KRAK	42	SER	1037.5	1041.5	17.5	79.0			
	650	GORK	2	S/F	1037.5	1038.8	2.0	9.0			
	810	KRAK	1	S	1037.5	1037.9	0.7	8.0	4.0		
	15000	KISV	4	S/F	1037.6	1038.0	1.8	46.0			
	113	POTS	4	S/F	1037.6	1037.8	1.7	100.0			
	204	IZMI	41	F	1037.8	1038.0	1.5	2000.0			
	650	GORK	4	S/F	1106.7	1107.2	0.7	33.0			
	1470	POTS	40	F	1147.3	1155.0	14.5	16.0			
	9300	KISV	45	C	1147.7	1153.7	10.8	33.0			
	200	GORK	41	F	1148.6	1257.4		120.0			
	200	GORK	41	F	1148.6	1218.8	69.9	40.0			
	3000	POTS	40	F	1149.0E	1153.5U	9.0D	12.0			
	9500	POTS	40	F	1150.0	1153.9	10.0	26.0			
	410	SGMR	4	S/F	1151.0E	1152.0	4.0D	160.0			QL=4 ST=2 TYP=3
	430	KRAK	46	C	1151.0	1151.3U	4.0	130.0D	14.0		
	9100	GORK	2	S/F	1151.4	1153.2	6.8	30.0			
	650	GORK	46	C	1151.7	1152.2	4.9	60.0			
	650	GORK	46	C	1151.7	1154.7		9.0			
	600	HUMN	2	S/F	1152.0	1153.0	7.0	28.0	11.0		
	410	SVTO	8	S	1152.0E	1152.0	U	150.0			QL=4 ST=2 TYP=3
	950	GORK	46	C	1152.0	1152.3	5.0	9.0			
	950	GORK	46	C	1152.0	1154.9		7.0			
	2950	GORK	46	C	1152.7	1153.8	3.5	9.4			
	2950	GORK	46	C	1152.7	1154.8		10.0			
	245	SGMR	49	GB	1153.0E	1153.0	U	540.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1153.0E	1153.0	U	650.0			QL=2 ST=2 TYP=6
	245	SVTO	8	S	1201.0E	1201.0	U	130.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1201.0E	1201.0	U	100.0			QL=4 ST=2 TYP=3
	100	GORK	41	F	1211.1	1258.0		270.0			
	100	GORK	41	F	1211.1	1235.3	47.6	1700.0			
	410	SGMR	8	S	1218.0E	1218.0	U	89.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1226.0E	1226.0	U	95.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1226.0E	1226.0	U	56.0			QL=4 ST=2 TYP=3
	950	GORK	4	S/F	1236.1	1237.5	2.3	70.0			
	650	GORK	4	S/F	1236.2	1237.5	2.2	95.0			
	610	SGMR	8	S	1237.0E	1237.0	U	180.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1237.0E	1237.0	2.0D	180.0			QL=4 ST=2 TYP=3
	808	ONDR	8	S	1237.5	1237.6	1.0	35.0			
	234	POTS	4	S/F	1254.7	1256.1	2.0	100.0			
	430	KRAK	42	SER	1255.0	1257.0	4.0	51.0			
	245	SGMR	8	S	1255.0E	1256.0	1.0D	150.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1255.0E	1256.0	1.0D	160.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1404.0E	1405.0	1.0D	72.0			QL=4 ST=2 TYP=3
	9400	HUAN	3	S	1405.6	1407.1	5.6	37.7	15.4		
	9500	POTS	4	S/F	1406.5	1407.3	3.5	34.0			
	9500	CUBA	2	S/F	1447.5	1448.0	3.5	10.0	5.0		
	6700	CUBA	42	SER	1520.9	1525.5	6.1	5.0			00R
	9500	CUBA	40	F	1545.0	1551.0	10.0	6.0	3.0		
	9500	CUBA	23	GRF	1611.0	1615.0	9.0	8.0	4.0		
	6700	CUBA	20	GRF	1624.0	1625.0	12.0	7.0	3.0		13L
	6700	CUBA	42	SER	1711.5	1716.9	9.5	12.0			20L

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

MARCH 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	9500	CUBA	42	SER	1711.5	1716.9	8.5	6.0			
	9400	HUAN	1	S	1715.9	1716.8	2.9	6.9	2.8		
	9400	HUAN	1	S	1735.7	1737.0	6.4	9.9	4.2		
	6700	CUBA	20	GRF	1736.0	1737.0	12.0	14.0	7.0		9L
	9500	CUBA	4	S/F	1855.0	1858.9	8.0	26.0	13.0		
	245	PALE	49	GB	1856.0E	1858.0	5.0D	2900.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1856.0E	1858.0	7.0D	2100.0			QL=2 ST=2 TYP=6
	6700	CUBA	46	C	1856.9	1859.8	7.0	33.0	9.0		35R
	610	PALE	4	S/F	1857.0E	1858.0	4.0D	340.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1857.2	1859.7	8.8	27.8	12.4		
	610	SGMR	8	S	1858.0E	1858.0	2.0D	380.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1858.0E	1859.0	2.0D	37.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1858.1	1859.6	4.3	20.0	10.0		25L
	6700	CUBA	20	GRF	1938.0	1941.0	10.0	12.0	6.0		21L
	9500	CUBA	2	S/F	1938.2	1939.0	5.8	8.0	4.0		
	9400	HUAN	1	S	2214.4	2215.8	2.9	19.8	7.6		
	1415	LEAR	8	S	2259.0E	2259.0	U	74.0			QL=4 ST=2 TYP=3
12	245	PALE	44	NS	0348.0E	0410.0	35.0D	150.0			QL=4 ST=2 TYP=1
	200	GORK	44	NS	0420.0E		520.0D		5.0		
	100	GORK	44	NS	0425.0E		520.0D		5.0		
	245	SVTO	44	NS	0526.0E	0611.0	80.0D	260.0			QL=4 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		360.0	20.0			
	127	TORN	43	NS	0740.0		440.0		13.0		V=1
	245	SVTO	44	NS	0851.0E	0928.0	84.0D	110.0			QL=4 ST=2 TYP=1
	260	ONDR	44	NS	0900.0E	1243.5U	340.0D	660.0U			
	235	CUBA	44	NS	1314.0E		517.0D		17.0		
	280	CUBA	44	NS	1314.0E		517.0D		29.0		
	245	SGMR	44	NS	1901.0E	1926.0	40.0D	290.0			QL=4 ST=2 TYP=1
	610	LEAR	8	S	0000.0E	0000.0	U	160.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0050.0E	0050.0	2.0D	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0050.0E	0050.0	2.0D	330.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0050.0E	0050.0	1.0D	68.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0050.0	0053.2	6.0	46.2			
	100	HIRA	42	SER	0050.5		6.0	1000.0D			
	245	LEAR	49	GB	0052.0E	0053.0	2.0D	15000.0			QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0052.0E	0053.0	3.0D	500.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	0052.0E	0053.0	1.0D	550.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0052.0E	0053.0	1.0D	18000.0			QL=4 ST=2 TYP=6
	15400	PALE	4	S/F	0052.0E	0053.0	11.0D	140.0			QL=4 ST=2 TYP=3
	17000	NOBE	4	S/F	0052.8	0053.2	3.0	105.0			
	80000	NOBE	4	S/F	0052.8	0053.2	3.0	20.0			
	35000	NOBE	4	S/F	0052.8	0053.2	3.0	50.0			R
	1415	LEAR	8	S	0053.0E	0053.0	2.0D	340.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0053.0E	0053.0	U	34.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0053.0E	0053.0	1.0D	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0053.0E	0053.0	1.0D	72.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0053.0E	0053.0	1.0D	94.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0053.0E	0053.0	2.0D	36.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0053.0E	0053.0	U	30.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0053.0E	0053.0	2.0D	98.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0053.0E	0053.0	U	67.0			QL=4 ST=2 TYP=3
	500	HIRA	46	C	0053.0	0053.0	10.0	50.0	15.0		ML
	200	HIRA	6	S	0053.2	0053.2U	2.3	51000.0D	2000.0D		WL
	2840	PEKG	45	C	0125.0	0133.3	26.0	76.9			
	2695	LEAR	4	S/F	0130.0E	0133.0	6.0D	88.0			QL=2 ST=2 TYP=5
	245	LEAR	49	GB	0130.0E	0130.0	3.0D	680.0			QL=4 ST=2 TYP=6
	4995	LEAR	8	S	0130.0E	0130.0	1.0D	36.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0130.0E	0134.0	7.0D	58.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0130.0E	0130.0	4.0D	44.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0130.0E	0133.0	5.0D	74.0			QL=4 ST=2 TYP=5
	1415	PALE	4	S/F	0130.0E	0134.0	9.0D	67.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0130.0E	0130.0	1.0D	35.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0130.0E	0130.0	1.0D	600.0			QL=4 ST=2 TYP=6
	500	HIRA	46	C	0130.5	0134.2	44.0	15.0	6.0		WL
	410	LEAR	8	S	0132.0E	0132.0	1.0D	57.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0132.0E	0134.0	4.0D	30.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0132.0E	0133.0	2.0D	33.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0132.0E	0132.0	1.0D	75.0			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

MARCH 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	2840	PEKG	1	S	0254.0	0257.8	9.0	9.3			
	410	PALE	8	S	0325.0E	0325.0	U	270.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0337.0E	0339.0	4.0D	65.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0338.0E	0338.0	U	91.0			QL=4 ST=2 TYP=3
	2840	PEKG	21	GRF	0411.0	0423.0	64.0	9.1			
	9100	GORK	23	GRF	0424.0E	1252.0	528.0D	27.0			
	200	GORK	41	F	0433.8	0439.1		10500.0			
	200	GORK	41	F	0433.8	0434.4	6.2	30.0D			
	100	GORK	41	F	0434.1	0439.1		510.0			
	100	GORK	41	F	0434.1	0434.4	5.9	390.0			
	9100	GORK	2	S/F	0437.9	0439.1	1.8	16.0			
	410	LEAR	8	S	0438.0E	0438.0	1.0D	360.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0438.0	0439.1	2.0	14.5			
	950	GORK	4	S/F	0438.3	0439.1	1.9	150.0			
	650	GORK	4	S/F	0438.3	0439.1	1.9	8.5			
	245	LEAR	49	GB	0439.0E	0439.0	U	850.0			QL=4 ST=2 TYP=6
	9100	GORK	3	S	0453.2	0453.7	1.0	12.0			
	9300	KISV	2	S/F	0601.0	0601.5	5.7	11.0			
	1415	LEAR	8	S	0614.0E	0614.0	U	78.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0616.0	0624.8		600.0			
	200	GORK	4	S/F	0623.3	0624.7	2.2	350.0			
	100	GORK	41	F	0624.5	0625.2	1.4	40.0			
	5900	KISV	2	S/F	0624.5	0625.3	1.5	4.0			
	950	GORK	1	S	0624.6	0624.7	0.2	10.0			
	650	GORK	1	S	0625.0	0625.4	0.9	3.0			
	5900	KISV	20	GRF	0722.7	0729.7	15.9	8.0			
	5900	KISV	20	GRF	0750.0	0754.7	12.2	14.0			
	2950	GORK	1	S	0754.2	0754.9	4.0	3.2			
	9300	KISV	2	S/F	0806.9	0807.4	1.5	6.0			
	245	LEAR	8	S	0811.0E	0812.0	2.0D	450.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0811.0E	0812.0	2.0D	460.0			QL=2 ST=2 TYP=3
	204	IZMI	41	F	0811.0	0820.7		700.0			
	200	GORK	41	F	0811.2	0817.3		110.0			
	650	GORK	23	GRF	0811.2	0820.3	15.2	5.0			
	950	GORK	23	GRF	0811.2	0820.3	15.2	2.0			
	200	GORK	41	F	0811.2	0820.6		100.0			
	200	GORK	41	F	0811.2	0812.6	10.4	180.0			
	234	POTS	42	SER	0811.2	0811.7	20.3	550.0			
	430	KRAK	42	SER	0811.5	0820.5	18.5	80.0			
	410	LEAR	8	S	0812.0E	0812.0	U	51.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0812.0E	0812.0	1.0D	47.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0815.0E	0817.0	2.0D	310.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0815.0E	0817.0	6.0D	290.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0820.0E	0820.0	1.0D	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0820.0E	0820.0	1.0D	80.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0820.0E	0820.0	1.0D	40.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0820.0E	0820.0	U	41.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0820.0E	0820.0	1.0D	84.0			QL=4 ST=2 TYP=3
	650	GORK	4	S/F	0820.3	0820.6	0.8	28.0			
	950	GORK	4	S/F	0820.3	0820.6	0.5	7.0			
	600	HUMN	2	S/F	0820.5	0821.0	2.0	22.0	10.0		
	410	SVTO	8	S	0824.0E	0824.0	1.0D	330.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0904.6	0908.6	9.4	6.0			
	9300	KISV	2	S/F	0905.0	0907.3	7.0	7.0			
	2950	GORK	20	GRF	0910.6	0945.5	72.1	8.2			
	3000	POTS	27	RF	0912.0E	0950.0U	59.5D	9.0			
	204	IZMI	41	F	0935.0	0937.6	5.0	700.0			
	200	GORK	46	C	0935.8	0937.6	6.9	210.0			
	200	GORK	46	C	0935.8	0939.8		150.0			
	100	GORK	46	C	0936.0	0938.2	9.5	390.0			
	9500	POTS	40	F	0936.0	0958.5	44.0	13.0			
	100	GORK	46	C	0936.0	0939.6		640.0			
	5900	KISV	23	GRF	0936.0	1002.9	53.0	10.0			
	9300	KISV	2	S/F	0936.2	0939.0	9.8	7.0			
	127	TORN	46	C	0936.2	0939.2	8.0	930.0	50.0		
	950	GORK	2	S/F	0937.0	0937.7	1.3	12.0			
	9300	KISV	23	GRF	0954.5	1024.0	35.5	8.0			
	9300	KISV	45	C	0956.2	0958.5	8.2	10.0			
	9300	KISV	45	C	0956.2	0957.5		8.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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	5900	KISV	2	S/F	0958.1	0958.6	1.4	4.0			
	430	KRAK	8	S	1000.3	1000.6	1.0	18.0			
	410	SVTO	8	S	1017.0E	1018.0	2.0D	85.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1017.0E	1018.0	2.0D	770.0			QL=2 ST=2 TYP=6
	9300	KISV	2	S/F	1050.1	1050.4	9.4	15.0			
	5900	KISV	2	S/F	1050.2	1050.5	73.0	12.0			
	9500	POTS	2	S/F	1055.3	1055.5	0.9	11.0			
	245	SVTO	8	S	1144.0E	1145.0	1.0D	230.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1145.0E	1145.0	U	220.0			QL=4 ST=2 TYP=3
	5900	KISV	21	GRF	1147.0	1152.9	19.0	13.0			
	9300	KISV	21	GRF	1147.2	1152.8	20.3	16.0			
	9500	POTS	40	F	1150.4	1153.0	14.6	14.0			
	1470	POTS	1	S	1152.2	1152.6	1.1	4.0			
	9100	GORK	1	S	1152.7	1152.9	0.7	11.0			
	200	GORK	46	C	1222.7	1223.3	2.5	170.0			
	200	GORK	46	C	1222.7	1224.5		320.0			
	950	GORK	4	S/F	1224.2	1224.5	1.1	24.0			
	650	GORK	4	S/F	1224.3	1225.9		40.0			
	200	GORK	46	C	1239.0	1247.0		41000.0			
	200	GORK	46	C	1239.0	1248.5		350.0			
	200	GORK	46	C	1239.0	1243.5	12.6	25000.0			
	100	GORK	46	C	1239.8	1249.0		8600.0			
	100	GORK	46	C	1239.8	1244.0	17.6	8100.0			
	100	GORK	46	C	1239.8	1253.5		9300.0			
	30	POTS	4	S/F	1240.0U	1244.8	7.5U	4000.0U			
	9400	HUAN	45	C	1240.3	1245.0U	10.4	354.4	122.4		
	8800	SGMR	49	GB	1241.0E	1243.0	13.0D	3400.0			QL=4 ST=2 TYP=7
	15400	SGMR	49	GB	1241.0E	1243.0	11.0D	5300.0			QL=4 ST=2 TYP=7
	245	SGMR	49	GB	1241.0E	1246.0	10.0D	58000.0			QL=4 ST=2 TYP=7
	430	KRAK	49	GB	1241.3	1244.0U	17.5	200.0D	80.0D		
	536	ONDR	47	GB	1241.3	1243.5	21.0	909.0			
	9100	GORK	47	GB	1241.4	1243.8	12.6	2700.0			
	234	POTS	49	GB	1241.7	1247.0U	76.0	30000.0D			
	5900	KISV	47	GB	1241.8	1244.0	18.2	3182.0			
	9300	KISV	47	GB	1241.8	1244.0	21.9	3210.0			
	9500	POTS	45	C	1241.8	1243.4U	23.2	3050.0			
	8800	SVTO	49	GB	1242.0E	1243.0	9.0D	2800.0			QL=4 ST=2 TYP=7
	2850	CRIM	30	PBI	1242.0	1253.0	16.0	27.0	8.0		
	950	GORK	47	GB	1242.0	1244.0	12.0	960.0			
	610	SGMR	49	GB	1242.0E	1244.0	12.0D	1100.0			QL=4 ST=2 TYP=7
	1415	SGMR	49	GB	1242.0E	1243.0	10.0D	1400.0			QL=4 ST=2 TYP=7
	2695	SGMR	49	GB	1242.0E	1243.0	12.0D	2000.0			QL=4 ST=2 TYP=7
	410	SGMR	49	GB	1242.0E	1243.0	12.0D	710.0			QL=4 ST=2 TYP=7
	4995	SGMR	49	GB	1242.0E	1243.0	10.0D	2600.0			QL=4 ST=2 TYP=7
	15400	SVTO	49	GB	1242.0E	1243.0	11.0D	5500.0			QL=4 ST=2 TYP=7
	245	SVTO	49	GB	1242.0E	1246.0	11.0D	55000.0			QL=4 ST=2 TYP=7
	2695	SVTO	49	GB	1242.0E	1243.0	11.0D	2000.0			QL=4 ST=2 TYP=7
	4995	SVTO	49	GB	1242.0E	1243.0	11.0D	2900.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	1242.0E	1244.0	11.0D	840.0			QL=4 ST=2 TYP=7
	410	SVTO	49	GB	1242.0E	1243.0	11.0D	570.0			QL=4 ST=2 TYP=7
	650	GORK	29	PBI	1242.0	1254.0	20.0D	24.0			
	950	GORK	29	PBI	1242.0	1254.0	20.0D	20.0			
	15000	KISV	47	GB	1242.0	1249.0	20.0	1021.0			
	950	GORK	47	GB	1242.0	1245.1		1400.0			
	650	GORK	4	S/F	1242.0	1244.1	12.0	865.0			
	2950	GORK	29	PBI	1242.0	1246.1	28.0D	175.0			
	3000	POTS	45	C	1242.0E	1243.4	28.0D	4400.0D			
	1470	POTS	45	C	1242.0	1244.5	25.8	1750.0			
	2950	GORK	47	GB	1242.0	1243.8	4.0	1840.0			
	2850	CRIM	47	GB	1242.0	1243.8	11.0	3369.0	1000.0		
	33	UPIC	46	C	1242.3	1244.2	3.9				
	600	HUMN	3	S	1242.4	1244.6	18.6	284.0	61.0		
	113	POTS	49	GB	1242.6	1248.0U	48.0U	2400.0D			
	127	TORN	49	GB	1242.8	1252.0U	13.0	2300.0D	750.0		
	808	ONDR	47	GB	1243.0	1245.0	17.0	968.0			
	1415	SVTO	49	GB	1243.0E	1243.0	10.0D	1200.0			QL=4 ST=2 TYP=7
	810	KRAK	49	GB	1243.0	1245.0U	18.0	225.0D	70.0D		
	33	UPIC	31	ABS	1246.2	1248.5	39.3				
	9400	HUAN	29	PBI	1250.7	1250.7	41.8	33.5	12.6		

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

MARCH 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	8800	SGMR	8	S	1309.0E	1309.0	U	65.0			QL=4 ST=2 TYP=3
	2850	CRIM	1	S	1316.0	1316.8	1.0	5.0	1.0		
	1470	POTS	4	S/F	1358.2	1359.6	2.8	14.0			
	3000	POTS	4	S/F	1358.5E	1400.0U	3.0D	54.0			
	2695	SGMR	8	S	1359.0E	1359.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1359.0E	1359.0	1.0D	120.0			QL=4 ST=2 TYP=3
	3000	POTS	40	F	1428.5E	1429.5U	3.7D	19.0			
	245	SGMR	8	S	1501.0E	1501.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1501.0E	1501.0	1.0D	85.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1505.0E	1505.0	U	61.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	1605.6	1606.7	4.7	15.8	6.2		
	6700	CUBA	2	S/F	1606.0	1606.8	2.0	8.0	4.0		73L
	245	PALE	8	S	1718.0E	1718.0	1.0D	230.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1722.0E	1722.0	U	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1722.0E	1722.0	2.0D	210.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1757.0	1800.0	10.0	9.0	4.0		53L 1803-1805OF
	9400	HUAN	1	S	1826.5	1833.7	13.7	11.8	4.8		
	245	SGMR	49	GB	1914.0E	1914.0	U	900.0			QL=4 ST=2 TYP=6
	9400	HUAN	2	S/F	2016.3	2019.0	4.7	7.9	4.1		
	245	SGMR	8	S	2042.0E	2042.0	1.0D	62.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2042.0E	2042.0	1.0D	24.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2045.0E	2045.0	2.0D	410.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2056.0E	2056.0	1.0D	200.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	2142.3	2142.6	0.7	8.0	4.0		28L
	6700	CUBA	2	S/F	2210.0	2211.0	2.7	5.0	2.0		37L
	6700	CUBA	2	S/F	2226.3	2227.2	4.4	9.0	4.0		29L
	245	LEAR	8	S	2313.0E	2313.0	1.0D	160.0			QL=2 ST=2 TYP=3
13	100	GORK	44	NS	0429.0E		510.0D		5.0		
	200	GORK	44	NS	0429.0E		510.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	10.0			
	260	ONDR	44	NS	0800.0E	0804.4U	400.0D	654.0U			
	127	TORN	43	NS	0807.0	1156.6	413.0	70.0	17.0		V=1
	245	SVTO	44	NS	0933.0E	1220.0	240.0D	250.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1330.0E		510.0D		19.0		
	280	CUBA	44	NS	1330.0E		510.0D		29.0		
	245	SGMR	44	NS	1926.0E	1936.0	179.0D	110.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2110.0E	0220.0	690.0D	20.0	5.0		ML
	100	HIRA	44	NS	2110.0E	2243.3	690.0D	170.0	50.0		SL
	245	LEAR	44	NS	2241.0E	2326.0U	379.0D	200.0			QL=4 ST=2 TYP=1
	245	SVTO	49	GB	0003.0E	0804.0	1437.0D	69000.0			QL=4 ST=1 TYP=7
	245	LEAR	8	S	0057.0E	0057.0	1.0D	230.0			QL=2 ST=2 TYP=3
	2840	PEKG	1	S	0122.0	0123.7	4.0	8.5			
	17000	NOBE	1	S	0122.9	0123.3	2.0	42.0			R,80,35GHz:0
	245	LEAR	4	S/F	0125.0E	0130.0	8.0D	74.0			QL=2 ST=2 TYP=3
	2840	PEKG	3	S	0150.0	0152.4	15.0	24.9			
	245	LEAR	8	S	0159.0E	0159.0	U	240.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0220.0E	0221.0	1.0D	75.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0231.0E	0232.0	4.0D	3100.0			QL=4 ST=3 TYP=6
	2840	PEKG	5	S	0231.0	0232.0	3.0	35.1			
	200	HIRA	6	S	0231.3	0231.3	1.6	13000.0	3000.0		MR
	100	HIRA	6	S	0231.3	0231.3	2.0	500.0			
	500	HIRA	46	C	0231.6	0232.1	9.0	30.0	7.0		WR
	35000	NOBE	1	S	0231.6	0231.9	1.5	25.0			O,80GHz:0
	17000	NOBE	1	S	0231.6	0231.9	1.5	48.0			O
	2840	PEKG	45	C	0249.0	0302.1	17.0	198.2			
	17000	NOBE	28	PRE	0253.2	0256.3	3.1	26.0			R
	245	LEAR	49	GB	0255.0E	0256.0	9.0D	1400.0			QL=2 ST=2 TYP=7
	610	LEAR	4	S/F	0255.0E	0303.0	10.0D	320.0			QL=4 ST=2 TYP=5
	15400	LEAR	49	GB	0255.0E	0301.0	13.0D	520.0			QL=4 ST=2 TYP=7
	8800	LEAR	4	S/F	0256.0E	0301.0	8.0D	220.0			QL=2 ST=2 TYP=5
	1415	LEAR	49	GB	0256.0E	0301.0	9.0D	510.0			QL=4 ST=2 TYP=7
	4995	LEAR	4	S/F	0256.0E	0256.0	8.0D	220.0			QL=2 ST=2 TYP=5
	2695	LEAR	4	S/F	0256.0E	0302.0	8.0D	180.0			QL=2 ST=2 TYP=5
	500	HIRA	46	C	0256.0	0256.5	13.0	600.0	30.0		O
	17000	NOBE	7	C	0256.3	0301.9	25.0	421.0			R
	35000	NOBE	7	C	0256.3	0301.9	20.0	223.0			R,80GHz:0
	410	LEAR	4	S/F	0259.0E	0301.0	5.0D	410.0			QL=4 ST=2 TYP=3
	2840	PEKG	30	PBI	0306.0	0318.2	54.0	15.5			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean	Int	Remarks
13	2840	PEKG	2	S/F	0317.0	0318.0	2.0	19.4			
	2840	PEKG	2	S/F	0322.5	0324.7	2.5	31.1			
	2840	PEKG	2	S/F	0332.0	0333.5	4.0	24.1			
	1415	LEAR	8	S	0333.0E	0334.0	1.0D	62.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0418.0E	0418.0	U	800.0			QL=2 ST=2 TYP=6
	2840	PEKG	5	S	0424.0	0426.5	6.0	16.9			
	9100	GORK	23	GRF	0445.0E	0740.7	229.3D	15.0			
	100	GORK	4	S/F	0517.1	0518.6	2.1	40.0D			
	245	LEAR	8	S	0518.0E	0518.0	U	340.0			QL=2 ST=2 TYP=3
	200	GORK	4	S/F	0518.2	0518.6	1.0	890.0			
	5900	KISV	45	C	0524.1	0526.1	3.9	7.0			
	5900	KISV	45	C	0524.1	0525.2		6.0			
	9300	KISV	45	C	0524.3	0525.1		7.0			
	9300	KISV	45	C	0524.3	0525.7	8.3	10.0			
	204	IZMI	7	C	0609.0	0609.2	1.0	250.0			
	9300	KISV	20	GRF	0642.4	0643.3	20.9	5.0			
	9300	KISV	2	S/F	0657.5	0657.9	2.0	11.0			
	200	HIRA	42	SER	0714.3	0803.3	54.0	15000.0			0
	2840	PEKG	46	C	0728.0	0732.8	14.0	136.3			
	9300	KISV	45	C	0728.4	0730.3		16.0			
	9300	KISV	45	C	0728.4	0729.7	2.9	18.0			
	35000	NOBE	7	C	0728.9	0732.2	11.0	135.0			R,80GHz:0
	17000	NOBE	7	C	0728.9	0732.2	11.0	224.0			R
	3013	IZMI	45	C	0729.0	0733.0	11.0	121.0			
	650	GORK	46	C	0729.0	0730.2	12.1	100.0			
	5900	KISV	45	C	0729.0	0730.3	2.4	10.0			
	15000	KISV	45	C	0729.0	0730.3		16.0			
	650	GORK	46	C	0729.0	0732.6		796.0			
	5900	KISV	45	C	0729.0	0729.6		7.0			
	15000	KISV	45	C	0729.0	0729.7	2.2	23.0			
	9500	POTS	4	S/F	0729.0	0732.7	15.0	140.0			
	9100	GORK	46	C	0729.1	0736.7		67.0			
	9100	GORK	46	C	0729.1	0732.7	11.6	155.0			
	2950	GORK	4	S/F	0729.2	0732.7	11.9	105.0			
	950	GORK	46	C	0729.6	0733.1	11.5	29.0			
	950	GORK	46	C	0729.6	0735.7		29.0			
	610	LEAR	49	GB	0730.0E	0732.0	3.0D	1800.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	0730.0E	0732.0	3.0D	1300.0			QL=4 ST=2 TYP=7
	600	HUMN	41	F	0730.0	0732.3	7.0	390.0			
	2695	LEAR	8	S	0731.0E	0732.0	2.0D	110.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0731.0E	0732.0	3.0D	230.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0731.0E	0732.0	2.0D	120.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0731.0E	0732.0	6.0D	130.0			QL=4 ST=2 TYP=3
	3000	POTS	4	S/F	0731.0U	0733.0U	8.0U	97.0			
	1470	POTS	4	S/F	0731.0	0736.5	8.0	54.0			
	15000	KISV	4	S/F	0731.2	0732.3	4.8	249.0			
	15000	KISV	30	PBI	0731.2	0736.7	19.8	62.0			
	9300	KISV	29	PBI	0731.3	0736.7	19.3	68.0			
	9300	KISV	4	S/F	0731.3	0732.8	4.7	153.0			
	5900	KISV	30	PBI	0731.4	0736.7	22.3	51.0			
	5900	KISV	47	GB	0731.4	0732.8	4.6	159.0			
	204	IZMI	41	F	0732.0	0734.0	2.0	75000.0			
	410	LEAR	49	GB	0732.0E	0732.0	1.0D	2800.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0732.0E	0732.0	1.0D	36.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0732.0E	0732.0	1.0D	8100.0			QL=2 ST=2 TYP=6
	8800	LEAR	8	S	0732.0E	0732.0	1.0D	91.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0732.0E	0732.0	1.0D	100.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0732.0E	0732.0	1.0D	31.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	0732.0E	0732.0	1.0D	570.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0732.0E	0732.0	1.0D	7200.0			QL=4 ST=2 TYP=6
	15400	SVTO	4	S/F	0732.0E	0732.0	5.0D	200.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0732.0E	0732.0	2.0D	150.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0732.0	0732.6	6.0	8000.0			0
	113	POTS	41	F	0732.0	0732.7	3.5	1200.0D			
	100	GORK	4	S/F	0732.0	0732.9	2.9	12000.0			
	200	GORK	41	F	0732.1	0812.1		180.0			
	200	GORK	41	F	0732.1	0803.8		16500.0			
	200	GORK	41	F	0732.1	0732.8	40.9	5400.0			
	200	GORK	41	F	0732.1	0755.9		820.0			

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
13	100	HIRA	42	SER	0732.3		60.0	1000.0D			
	234	POTS	8	S	0732.6	0732.7	0.4	22000.0D			
	30	POTS	4	S/F	0732.6	0732.9	0.9	2000.0U			
	33	UPIC	45	C	0734.0	0734.2	2.3				
	2695	LEAR	8	S	0736.0E	0737.0	1.0D	45.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0736.0E	0736.0	2.0D	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0736.0E	0736.0	U	21.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0736.0E	0736.0	1.0D	34.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0736.0E	0736.0	U	36.0			QL=4 ST=2 TYP=3
	2850	CRIM	4	S/F	0739.0	0743.0	10.0	97.0	30.0		
	245	LEAR	49	GB	0752.0E	0755.0	4.0D	750.0			QL=2 ST=2 TYP=6
	4995	LEAR	49	GB	0801.0E	0804.0	8.0D	2500.0			QL=2 ST=2 TYP=7
	8800	LEAR	49	GB	0801.0E	0804.0	7.0D	4100.0			QL=2 ST=2 TYP=7
	2695	LEAR	49	GB	0801.0E	0804.0	7.0D	1500.0			QL=2 ST=2 TYP=7
	15400	LEAR	49	GB	0801.0E	0804.0	12.0D	7200.0			QL=4 ST=2 TYP=7
	4995	SVTO	49	GB	0801.0E	0804.0	10.0D	3000.0			QL=4 ST=2 TYP=7
	8800	SVTO	49	GB	0801.0E	0804.0	10.0D	4700.0			QL=4 ST=2 TYP=7
	15400	SVTO	49	GB	0801.0E	0804.0	10.0D	6100.0			QL=4 ST=2 TYP=7
	15000	KISV	29	PBI	0801.0	0806.0	30.0	133.0			
	9100	GORK	47	GB	0801.0	0804.3	23.4	6400.0			
	9500	POTS	45	C	0801.0	0804.5	34.0	5400.0			
	15000	KISV	47	GB	0801.0	0804.8	5.0	1068.0			
	3000	POTS	45	C	0801.0	0803.9	19.0	4600.0D			
	35000	NOBE	45	C	0801.2	0803.9	8.0D	3860.0			R
	80000	NOBE	45	C	0801.2	0803.9	8.0D	240.0			
	17000	NOBE	45	C	0801.2	0803.9	13.0	5740.0			R
	5900	KISV	29	PBI	0801.3	0806.0	20.5	250.0			
	9300	KISV	29	PBI	0801.3	0806.0	24.0	226.0			
	9300	KISV	47	GB	0801.3	0804.3	4.7	5451.0			
	5900	KISV	47	GB	0801.3	0804.3	4.7	3825.0			
	2850	CRIM	47	GB	0801.5	0804.0	9.0	1500.0U			
	3013	IZMI	45	C	0801.5	0804.0	10.5	1510.0			
	2850	CRIM	30	PBI	0801.5	0810.5	13.0	15.5	4.0		
	33	UPIC	32	ABS	0801.5	0807.5	26.0				
	2950	GORK	47	GB	0801.6	0804.0	7.6	1400.0			
	2950	GORK	29	PBI	0801.6	0809.2	25.0	20.0			
	2695	SVTO	49	GB	0802.0E	0804.0	6.0D	1300.0			QL=4 ST=2 TYP=7
	536	ONDR	4	S/F	0802.6	0803.5	9.5	782.0			
	127	TORN	4	S/F	0803.0	0804.0U	3.0	13400.0D	900.0D		
	1415	LEAR	49	GB	0803.0E	0803.0	6.0D	1900.0			QL=4 ST=2 TYP=7
	410	LEAR	49	GB	0803.0E	0803.0	4.0D	3500.0			QL=4 ST=2 TYP=7
	610	LEAR	49	GB	0803.0E	0804.0	5.0D	710.0			QL=4 ST=2 TYP=7
	245	LEAR	49	GB	0803.0E	0804.0	3.0D	81000.0			QL=2 ST=2 TYP=7
	410	SVTO	49	GB	0803.0E	0803.0	4.0D	2800.0			QL=4 ST=2 TYP=7
	1415	SVTO	49	GB	0803.0E	0804.0	6.0D	1800.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	0803.0E	0804.0	5.0D	680.0			QL=4 ST=2 TYP=7
	245	SVTO	49	GB	0803.0E	0804.0	4.0D	69000.0			QL=4 ST=2 TYP=7
	1470	POTS	45	C	0803.0	0804.2	17.0	2050.0			
	234	POTS	4	S/F	0803.0	0803.7	1.1	30000.0D			
	100	GORK	49	GB	0803.3	0804.1		28000.0			
	100	GORK	49	GB	0803.3	0804.6		52000.0			
	100	GORK	49	GB	0803.3	0803.9	2.7	47000.0			
	950	GORK	29	PBI	0803.4	0809.0	34.0	25.0			
	650	GORK	29	PBI	0803.4	0809.0	45.0	20.0			
	950	GORK	4	S/F	0803.4	0804.4	5.6	760.0			
	650	GORK	4	S/F	0803.4	0804.5	5.6	710.0			
	204	IZMI	45	C	0803.5	0805.0	5.0	500000.0			
	500	HIRA	46	C	0803.5	0803.5	6.0	1000.0	150.0		0
	808	ONDR	4	S/F	0803.5	0804.5	7.0	355.0			
	430	KRAK	45	C	0803.5E	0803.7U	1.6D	290.0D			
	33	UPIC	46	C	0803.5	0803.7U	2.4				
	600	HUMN	3	S	0803.6	0804.6	14.7	270.0	30.0		
	30	POTS	4	S/F	0803.7	0804.0U	3.4	30000.0D			
	113	POTS	29	PBI	0803.7	0804.2U	36.0	1400.0D			
	810	KRAK	45	C	0804.5E	0804.7U	0.5D	320.0D			
	2850	CRIM	1	S	0817.4	0817.9	2.0	3.9	1.0		
	245	SVTO	8	S	0839.0E	0839.0	U	96.0			QL=4 ST=2 TYP=3
	9100	GORK	22	GRF	0846.9	0855.6	31.8	15.0			
	5900	KISV	22	GRF	0854.3	0855.7	23.5	13.0			

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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
13	9300	KISV	22	GRF	0855.2	0855.7	23.1	7.0			
	245	LEAR	8	S	0917.0E	0918.0	1.0D	130.0			QL=2 ST=2 TYP=3
	9300	KISV	22	GRF	0931.7	0936.2	16.3	6.0			
	410	SVTO	8	S	0938.0E	0938.0	U	120.0			QL=4 ST=2 TYP=3
	9100	GORK	22	GRF	1016.9	1225.9	166.1D	17.0			
	5900	KISV	2	S/F	1021.8	1023.5	7.2	4.0			
	9300	KISV	2	S/F	1021.9	1023.6	7.3	6.0			
	245	LEAR	8	S	1025.0E	1026.0	1.0D	100.0			QL=2 ST=2 TYP=3
	2950	GORK	45	C	1053.8	1054.3	2.4	3.7			
	2950	GORK	45	C	1053.8	1055.3		3.7			
	9300	KISV	2	S/F	1054.3	1055.7	8.1	9.0			
	5900	KISV	2	S/F	1115.6	1118.0	6.8	5.0			
	204	IZMI	41	F	1116.5	1117.0	1.5	700.0			
	2950	GORK	1	S	1125.0	1126.0	3.0	5.5			
	3000	POTS	1	S	1125.0E	1126.0	2.0D	5.0			
	1470	POTS	4	S/F	1125.5	1125.9	2.1	14.0			
	245	SGMR	8	S	1129.0E	1129.0	1.0D	97.0			QL=4 ST=2 TYP=3
	33	UPIC	3	S	1159.2	1159.3	0.4				
	245	SGMR	8	S	1206.0E	1206.0	1.0D	98.0			QL=4 ST=2 TYP=3
	234	POTS	41	F	1210.5	1221.0	11.0	700.0			
	245	SGMR	49	GB	1220.0E	1220.0	1.0D	620.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1220.0E	1221.0	1.0D	760.0			QL=2 ST=2 TYP=6
	200	GORK	4	S/F	1220.4	1221.0	1.0	1100.0			
	9500	POTS	27	RF	1220.7	1225.6	7.9	11.0			
	9400	HUAN	2	S/F	1407.1	1409.7	6.1	22.2	8.6		
	9500	POTS	29	PBI	1408.0	1409.6	6.5	21.0			
	15000	CUBA	2	S/F	1408.8	1410.0	4.4	20.0	10.0		33R
	6700	CUBA	2	S/F	1408.9	1409.6	5.3	9.0	4.0		15R
	9500	CUBA	2	S/F	1409.2	1409.7	1.8	11.0	5.0		
	6700	CUBA	2	S/F	1435.0	1435.6	2.0	7.0	3.0		38L
	9500	CUBA	2	S/F	1442.3	1442.5	2.2	7.0	3.0		
	15000	CUBA	47	GB	1443.3	1447.0	7.7	1387.0			17R
	245	SGMR	8	S	1507.0E	1507.0	U	100.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1507.0E	1507.0	1.0D	120.0			QL=4 ST=3 TYP=3
	6700	CUBA	2	S/F	1509.9	1511.2	5.6	12.0	6.0		8R
	9500	CUBA	2	S/F	1510.3	1511.2	4.5	13.0	6.0		
	9400	HUAN	23	GRF	1510.8	1559.2	92.4	30.3	14.8		
	15000	CUBA	1	S	1523.8	1524.3	5.2	44.0	22.0		24R
	9400	HUAN	1	S	1523.9	1526.7	6.9	6.1	3.2		
	410	SGMR	8	S	1524.0E	1525.0	U	98.0			QL=4 ST=2 TYP=3
	9500	CUBA	47	GB	1541.0	1547.5	19.0	638.0			
	235	CUBA	48	C	1542.0	1546.0U	8.0	3530.0			
	280	CUBA	48	C	1542.0	1546.0U	8.0	5405.0			
	6700	CUBA	47	GB	1543.0	1547.8	21.0	1180.0			6L
	9400	HUAN	45	C	1543.1	1548.0U	15.3	219.4	102.6		
	1415	SGMR	49	GB	1544.0E	1545.0	9.0D	1600.0			QL=4 ST=2 TYP=7
	610	SGMR	49	GB	1544.0E	1545.0	8.0D	2000.0			QL=4 ST=2 TYP=7
	4995	SGMR	49	GB	1544.0E	1545.0	9.0D	5600.0			QL=4 ST=2 TYP=7
	2695	SGMR	49	GB	1544.0E	1545.0	9.0D	3500.0			QL=4 ST=2 TYP=7
	4995	SVTO	49	GB	1544.0E	1545.0	6.0D	5700.0			QL=2 ST=2 TYP=7
	15400	SVTO	49	GB	1544.0E	1545.0	5.0D	6700.0			QL=2 ST=2 TYP=7
	8800	SVTO	49	GB	1544.0E	1545.0	6.0D	5600.0			QL=2 ST=2 TYP=7
	2695	SVTO	49	GB	1544.0E	1545.0	6.0D	3600.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	1544.0E	1545.0	6.0D	3000.0			QL=4 ST=2 TYP=7
	15400	SGMR	49	GB	1544.0E	1545.0	10.0D	8300.0			QL=4 ST=2 TYP=7
	2800	OTTA	47	GB	1544.6	1545.5	23.8	2790.0	558.0		
	600	HUMN	4	S/F	1544.8	1545.5	13.0	505.0	71.0		
	410	SGMR	49	GB	1545.0E	1545.0	5.0D	3300.0			QL=4 ST=2 TYP=7
	410	SVTO	49	GB	1545.0E	1545.0	4.0D	16000.0			QL=4 ST=2 TYP=7
	245	SVTO	49	GB	1545.0E	1545.0	5.0D	7400.0			QL=4 ST=2 TYP=7
	33	UPIC	46	C	1545.0	1546.0U	2.8				
	8800	SGMR	49	GB	1546.0E	1546.0	7.0D	980.0			QL=4 ST=2 TYP=7
	33	UPIC	31	ABS	1547.8	1548.5	12.2				
	245	SGMR	8	S	1605.0E	1605.0	U	55.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1624.7	1626.4	4.6	12.1	5.4		
	6700	CUBA	1	S	1718.2	1718.3	0.8	9.0	4.0		34L
	245	SGMR	8	S	1747.0E	1747.0	U	99.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1814.0E	1814.0	U	70.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1855.0E	1856.0	2.0D	210.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
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MARCH 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
13	2800	OTTA	3	S	1855.7	1856.4	2.1	26.4	8.0		
	2695	SGMR	8	S	1856.0E	1856.0	U	28.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2021.3	2022.4	2.0	27.6	8.0		
	9400	HUAN	22	GRF	2037.0	2130.0	78.6	10.1	4.6		
	9400	HUAN	2	S/F	2210.0	2211.0	5.3	10.1	4.3		
	610	LEAR	8	S	2328.0E	2328.0	1.0D	260.0			QL=4 ST=2 TYP=3
14	100	GORK	44	NS	0443.0E		470.0D		5.0		
	200	GORK	44	NS	0444.0E		470.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0	15.0			
	127	TORN	44	NS	0630.0E		510.0D		11.0		V=2
	280	CUBA	44	NS	1308.0E		532.0D		32.0		
	235	CUBA	44	NS	1508.0E		530.0D		19.0		
	100	HIRA	44	NS	2110.0E	0538.0	690.0D	150.0	20.0		SL
	200	HIRA	44	NS	2110.0E	0442.0	690.0D	50.0	5.0		ML
	245	LEAR	49	GB	0250.0E	0250.0	1.0D	1000.0			QL=2 ST=2 TYP=6
	245	LEAR	8	S	0314.0E	0314.0	U	330.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0332.0E	0333.0	1.0D	1400.0			QL=2 ST=2 TYP=6
	245	LEAR	49	GB	0343.0E	0343.0	U	9200.0			QL=2 ST=2 TYP=6
	2840	PEKG	41	F	0423.0	0424.2	10.0	20.2			
	17000	NOBE	1	S	0423.8	0424.1	0.8	20.0			0,80,35GHz:0
	245	LEAR	49	GB	0436.0E	0439.0	4.0D	3800.0			QL=2 ST=2 TYP=7
	410	LEAR	8	S	0439.0E	0439.0	U	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0448.0E	0448.0	1.0D	150.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0452.0E	0452.0	1.0D	360.0			QL=2 ST=2 TYP=3
	15000	KISV	2	S/F	0519.6	0520.0	3.9	8.0			
	9100	GORK	23	GRF	0519.6	0608.2	431.8D	17.0			
	245	LEAR	4	S/F	0527.0E	0532.0	5.0D	210.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0555.0E	0556.0	1.0D	130.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0555.0E	0556.0	1.0D	140.0			QL=2 ST=2 TYP=3
	3013	IZMI	20	GRF	0605.0	0607.0	10.0	4.0	3.0		
	5900	KISV	2	S/F	0605.6	0607.0	9.4	16.0			
	9300	KISV	2	S/F	0605.7	0607.0	6.1	10.0			
	9100	GORK	1	S	0606.6	0606.9	1.1	10.0			
	245	LEAR	8	S	0621.0E	0622.0	2.0D	70.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	0652.0E	0653.0	3.0D	120.0			QL=2 ST=2 TYP=3
	650	GORK	8	S	0716.1	0716.2	0.3	2.0			
	950	GORK	8	S	0716.1	0716.2	0.3	8.0			
	2950	GORK	21	GRF	0732.4	0746.6	40.0	5.6			
	113	POTS	4	S/F	0732.6	0733.8	4.1	200.0			
	234	POTS	4	S/F	0735.5	0736.7	1.7	100.0			
	245	LEAR	8	S	0736.0E	0736.0	U	150.0			QL=2 ST=2 TYP=3
	5900	KISV	23	GRF	0736.0	0745.9	25.6	10.0			
	100	GORK	46	C	0743.6	0755.0		370.0			
	100	GORK	46	C	0743.6	0746.9	12.8	35.0D			
	15000	KISV	23	GRF	0745.1	0749.3	23.6	9.0			
	9300	KISV	23	GRF	0745.2	0752.8	23.8	9.0			
	200	GORK	41	F	0745.7	0751.0	11.3	20.0D			
	200	GORK	41	F	0745.7	0754.4		85.0			
	1470	POTS	4	S/F	0750.5	0754.8	7.7	56.0			
	3000	POTS	4	S/F	0752.5E	0754.5U	5.5D	64.0			
	5900	KISV	4	S/F	0752.8	0754.6	5.2	144.0			
	9300	KISV	4	S/F	0752.8	0754.6	4.8	87.0			
	9100	GORK	2	S/F	0752.8	0754.7	5.2	80.0			
	4995	LEAR	8	S	0753.0E	0754.0	2.0D	110.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0753.0E	0754.0	3.0D	130.0			QL=2 ST=2 TYP=3
	2950	GORK	4	S/F	0753.0	0754.6	4.4	64.0			
	9500	POTS	4	S/F	0753.0	0754.6	5.3	60.0			
	950	GORK	5	S	0753.0	0754.9	7.0	47.0			
	650	GORK	5	S	0753.1	0754.8	7.3	46.0			
	245	LEAR	8	S	0754.0E	0755.0	1.0D	85.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0754.0E	0755.0	1.0D	53.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0754.0E	0754.0	1.0D	46.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0754.0E	0754.0	1.0D	54.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0754.0E	0754.0	1.0D	63.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0754.0E	0754.0	U	28.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0754.0E	0754.0	1.0D	80.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0754.0E	0754.0	1.0D	64.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0754.0E	0755.0	1.0D	50.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	245	SVTO	8	S	0754.0E	0755.0	1.0D	88.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0754.0E	0754.0	1.0D	75.0			QL=2 ST=2 TYP=3
	500	HIRA	6	S	0754.0	0754.5	5.0	40.0	20.0		WL
	15000	KISV	2	S/F	0754.0	0754.7	4.3	36.0			
	200	HIRA	6	S	0754.6	0755.0	2.6	75.0	20.0		0
	234	POTS	41	F	0841.8	0844.3	3.6	450.0			
	245	LEAR	8	S	0843.0E	0844.0	1.0D	270.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0844.0E	0844.0	U	260.0			QL=4 ST=2 TYP=3
	113	POTS	4	S/F	0844.2	0844.7	1.2	250.0			
	245	LEAR	8	S	0852.0E	0852.0	1.0D	88.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0852.0E	0852.0	U	110.0			QL=4 ST=2 TYP=3
	2850	CRIM	3	S	0853.0	0854.5	4.0	76.0	15.0		
	9500	POTS	21	GRF	0855.0	0915.0	115.0	12.0			
	3000	POTS	21	GRF	0856.5	0925.0	124.0	14.0			
	260	ONDR	41	F	0900.0	1020.0	340.0	546.0			
	536	ONDR	41	F	0900.0	1330.5	305.0	35.0			
	9300	KISV	2	S/F	0934.4	0936.0	5.6	15.0			
	9100	GORK	1	S	0935.5	0935.9	1.4	10.0			
	5900	KISV	2	S/F	0935.6	0936.0	1.9	4.0			
	9500	POTS	2	S/F	0935.7	0936.0	2.0	10.0			
	5900	KISV	23	GRF	1007.8	1030.9	29.7	8.0			
	1470	POTS	40	F	1009.5	1019.9	23.0	15.0			
	5900	KISV	2	S/F	1009.8	1013.0	8.7	13.0			
	2950	GORK	23	GRF	1009.8	1029.1	45.0	4.9			
	9300	KISV	23	GRF	1010.0	1017.2	25.0	11.0			
	3000	POTS	42	SER	1011.0	1020.0	26.5	15.0			
	9300	KISV	2	S/F	1011.2	1013.0	4.5	16.0			
	9100	GORK	46	C	1011.8	1019.7	28.0	60.0			
	9100	GORK	46	C	1011.8	1022.8		57.0			
	9100	GORK	46	C	1011.8	1026.9		50.0			
	9500	POTS	42	SER	1012.0	1029.9	18.0	45.0			
	100	GORK	41	F	1012.7	1014.0	14.7	500.0			
	100	GORK	41	F	1012.7	1026.7		370.0			
	100	GORK	41	F	1012.7	1019.8		1100.0			
	245	LEAR	49	GB	1013.0E	1013.0	1.0D	2100.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1013.0E	1013.0	1.0D	2200.0			QL=4 ST=2 TYP=6
	234	POTS	42	SER	1013.2	1019.5	11.8	2200.0			
	113	POTS	42	SER	1013.5	1019.8	14.0	650.0			
	200	GORK	41	F	1015.4	1026.8		65.0			
	200	GORK	41	F	1015.4	1015.8	13.4	170.0			
	9300	KISV	46	C	1018.9	1022.1		37.0			
	9300	KISV	46	C	1018.9	1021.4		32.0			
	9300	KISV	46	C	1018.9	1019.6	5.7	51.0			
	9300	KISV	46	C	1018.9	1022.7		41.0			
	245	LEAR	49	GB	1019.0E	1019.0	U	1200.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1019.0E	1019.0	1.0D	1000.0			QL=4 ST=2 TYP=6
	3013	IZMI	40	F	1019.0	1021.0	12.5	7.0			
	204	IZMI	42	SER	1019.0	1019.7	8.5	150.0			
	5900	KISV	46	C	1019.1	1021.5		21.0			
	430	KRAK	45	C	1019.1	1021.6	3.9	56.0	20.0		
	5900	KISV	46	C	1019.1	1022.8	4.9	21.0			
	5900	KISV	46	C	1019.1	1019.8		14.0			
	5900	KISV	46	C	1019.1	1020.9		18.0			
	650	GORK	46	C	1019.3	1021.8		8.5			
	650	GORK	46	C	1019.3	1019.9	4.3	8.5			
	950	GORK	46	C	1019.5	1020.1	4.1	9.0			
	950	GORK	46	C	1019.5	1022.8		8.0			
	810	KRAK	41	F	1019.6	1020.0	3.0	6.0	3.0		
	2950	GORK	45	C	1019.6	1021.5		8.6			
	2950	GORK	45	C	1019.6	1019.9	3.5	7.4			
	410	SVTO	8	S	1021.0E	1021.0	2.0D	56.0			QL=4 ST=2 TYP=3
	9300	KISV	4	S/F	1025.6	1026.7	4.6	39.0			
	15000	KISV	2	S/F	1026.4	1026.8	1.7	15.0			
	5900	KISV	4	S/F	1026.5	1026.9	4.0	25.0			
	2950	GORK	1	S	1036.6	1036.8	0.6	6.0			
	1470	POTS	40	F	1151.5U	1201.0U	32.0U	67.0			
	2950	GORK	2	S/F	1154.3	1200.8		12.0			
	2950	GORK	21	GRF	1154.3	1203.9	20.3	5.9			
	950	GORK	41	F	1157.0	1201.0	14.2	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
14	650	GORK	41	F	1157.0	1201.1	14.5	5.0			
	650	GORK	41	F	1157.0	1209.2		19.0			
	950	GORK	41	F	1157.0	1209.2		12.0			
	5900	KISV	45	C	1159.5	1201.2		33.0			
	5900	KISV	45	C	1159.5	1200.8	6.0	39.0			
	2850	CRIM	1	S	1200.0	1201.0	2.0	16.0	5.0		
	4995	SGMR	8	S	1200.0E	1200.0	1.0D	35.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1200.0E	1201.0	1.0D	80.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1200.0E	1201.0	1.0D	85.0			QL=4 ST=2 TYP=3
	9500	POTS	42	SER	1200.0	1201.0	10.7	18.0			
	3000	POTS	42	SER	1200.0	1209.0	12.3	32.0			
	9100	GORK	46	C	1200.0	1209.2		13.0			
	9300	KISV	45	C	1200.0	1201.2		19.0			
	9300	KISV	45	C	1200.0	1200.8	4.0	22.0			
	9100	GORK	46	C	1200.0	1200.9	13.1	23.0			
	8800	SGMR	8	S	1201.0E	1201.0	U	28.0			QL=2 ST=2 TYP=3
	100	GORK	46	C	1202.0	1205.3	8.0	35.0D			
	100	GORK	46	C	1202.0	1208.8		35.0D			
	200	GORK	41	F	1202.5	1209.1		170.0			
	200	GORK	41	F	1202.5	1202.9	7.0	25.0D			
	9300	KISV	2	S/F	1202.7	1203.1U	5.3	11.0			
	2850	CRIM	1	S	1206.0	1209.0	4.0	30.0	10.0		
	5900	KISV	4	S/F	1206.6	1209.1	5.8	28.0			
	2950	GORK	4	S/F	1206.9	1209.0	3.9	27.0			
	245	SVTO	8	S	1208.0E	1209.0	1.0D	79.0			QL=4 ST=2 TYP=3
	234	POTS	4	S/F	1208.4	1209.4	1.6	100.0			
	810	KRAK	1	S	1208.8	1209.1	1.5	8.0	7.0		
	430	KRAK	1	S	1208.8	1209.4	2.1	12.0	4.0		
	245	SGMR	8	S	1209.0E	1209.0	U	73.0			QL=4 ST=2 TYP=3
	33	UPIC	8	S	1209.1	1209.3	0.4				
	127	TORN	4	S/F	1231.1	1231.8	1.4	1100.0	550.0		
	15000	KISV	2	S/F	1237.3	1241.4	6.7	15.0			
	234	POTS	4	S/F	1240.5	1241.3	5.6	450.0			
	245	SGMR	8	S	1241.0E	1241.0	1.0D	450.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	1241.0	1241.5	3.0	7.0			
	113	POTS	4	S/F	1241.1	1242.0	1.6	650.0			
	9400	HUAN	21	GRF	1249.0	1339.0	104.7	24.1	9.6		
	430	KRAK	45	C	1329.6	1330.0	5.8	190.0D	20.0		
	4995	SGMR	8	S	1330.0E	1331.0	2.0D	70.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1330.0E	1331.0	4.0D	84.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1330.0E	1331.0	4.0D	130.0			QL=2 ST=2 TYP=3
	410	SGMR	49	GB	1330.0E	1331.0	2.0D	580.0			QL=4 ST=2 TYP=6
	1415	SGMR	4	S/F	1330.0E	1331.0	5.0D	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1330.0E	1331.0	2.0D	410.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1330.0E	1331.0	2.0D	380.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1330.0E	1331.0	4.0D	140.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1330.0E	1331.0	5.0D	89.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1330.0E	1330.0	2.0D	480.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1330.4	1331.1	7.1	38.1	26.4		
	9500	POTS	40	F	1330.4	1331.2	12.3	42.0			
	9400	HUAN	4	S/F	1330.4	1333.5		42.1			
	3000	POTS	4	S/F	1330.5	1331.0	14.5	76.0			
	40	POTS	41	F	1330.5	1332.1	2.3U	U			
	2800	OTTA	3	S	1330.5	1331.1	11.1	83.8	34.0		
	9500	CUBA	2	S/F	1330.5	1331.2	4.5	36.0	18.0		
	1470	POTS	4	S/F	1330.5	1331.6	16.5	94.0			
	234	POTS	4	S/F	1330.5	1331.7	3.1	550.0			
	810	KRAK	45	C	1330.7	1332.0	8.5	42.0	22.0		
	610	SGMR	4	S/F	1331.0E	1332.0	4.0D	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1331.0E	1331.0	U	36.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	1331.0E	1331.0	4.0D	85.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	1331.0	1333.0	15.0	25.0	10.0		
	808	ONDR	49	GB	1331.0	1332.5	15.0	61.0			
	113	POTS	4	S/F	1331.6	1331.7	2.1	500.0			
	127	TORN	4	S/F	1331.7	1332.0	1.2	1400.0	690.0		
	33	UPIC	4	S/F	1332.0	1332.2	0.8				
	9500	CUBA	29	PBI	1339.0		11.0	12.0	6.0		
	9400	HUAN	1	S	1400.6	1405.2	8.9	12.0	6.4		
	245	SGMR	8	S	1405.0E	1405.0	U	250.0			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
14	245	SVTO	4	S/F	1405.0E	1406.0	3.0D	170.0			QL=4 ST=2 TYP=3
	234	POTS	42	SER	1405.0	1421.0	21.0U	1000.0			
	113	POTS	42	SER	1405.0	1405.2	14.6	70.0			
	40	POTS	42	SER	1405.2	1405.7	4.8U	U			
	245	SVTO	49	GB	1420.0E	1421.0	1.0D	830.0			QL=4 ST=2 TYP=6
	280	CUBA	7	C	1421.3	1424.4	4.6	1492.0			
	235	CUBA	7	C	1421.3	1424.4	4.6	450.0			
	245	SGMR	8	S	1454.0E	1455.0	1.0D	130.0			QL=4 ST=2 TYP=3
	234	POTS	4	S/F	1454.0	1454.1	1.0	150.0			
	15000	CUBA	23	GRF	1505.0E	1509.0	10.0D	31.0	15.0		10R
	9400	HUAN	1	S	1508.2	1509.7	2.9	10.0	5.6		
	245	SGMR	8	S	1535.0E	1536.0	2.0D	100.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1535.0E	1536.0	3.0D	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1632.0E	1632.0	U	89.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1642.0E	1642.0	U	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1646.0E	1646.0	1.0D	110.0			QL=4 ST=2 TYP=3
	9400	HUAN	20	GRF	1735.9	1746.2	31.3	12.0	6.6		
	15000	CUBA	23	GRF	1736.0	1740.0	10.0	41.0	20.0		6R
	9500	CUBA	2	S/F	1736.1	1736.7	2.9	16.0	8.0		
	2695	PALE	49	GB	1811.0E	1814.0	9.0D	920.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	1811.0E	1814.0	7.0D	3200.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	1811.0E	1814.0	8.0D	2200.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1811.0E	1814.0	7.0D	2000.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	1811.0E	1812.0	7.0D	650.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1811.0E	1813.0	9.0D	3900.0			QL=2 ST=2 TYP=6
	610	SGMR	49	GB	1811.0E	1811.0	8.0D	960.0			QL=4 ST=2 TYP=7
	245	SGMR	49	GB	1811.0E	1813.0	7.0D	67000.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	1811.0E	1814.0	7.0D	870.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	1811.0E	1814.0	11.0D	3700.0			QL=4 ST=2 TYP=6
	1415	PALE	49	GB	1811.0E	1812.0	11.0D	800.0			QL=4 ST=2 TYP=6
	9400	HUAN	45	C	1811.0	1816.4U	17.0	102.3	50.4		
	6700	CUBA	47	GB	1811.2	1814.0	15.5	2986.0			POL OFF
	9500	CUBA	47	GB	1811.5	1814.0	21.5	2654.0			
	2800	OTTA	47	GB	1811.7	1814.1	24.1	758.0	152.0		
	15000	CUBA	47	GB	1812.3	1815.0U	19.7	5339.0			SR
	8800	SGMR	49	GB	1814.0E	1814.0	4.0D	3100.0			QL=2 ST=2 TYP=6
	235	CUBA	7	C	1814.0	1815.0U	10.0	1262.0			
	280	CUBA	7	C	1814.0	1821.5	10.0	997.0			
	245	SGMR	49	GB	1834.0E	1834.0	2.0D	830.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	1838.0E	1838.0	1.0D	87.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1842.0E	1842.0	2.0D	2500.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1843.0E	1843.0	1.0D	75.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1855.0E	1855.0	U	82.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1927.0E	1927.0	1.0D	190.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1933.0E	1933.0	U	1000.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1941.0E	1941.0	2.0D	58.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1941.0E	1941.0	2.0D	3100.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1959.0E	1959.0	U	680.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	2016.0E	2016.0	1.0D	320.0			QL=4 ST=2 TYP=3
	15000	CUBA	2	S/F	2041.0	2041.8	3.2	34.0	17.0		6R
	17000	NOBE	1	S	2238.9	2239.1	0.8	17.0			0,80,35GHz:0
	17000	NOBE	1	S	2303.8	2304.4	1.5	17.0			0,80,35GHz:0
15	100	GORK	44	NS	0430.0E		510.0D		10.0		
	200	GORK	44	NS	0430.0E		510.0D		5.0		
	113	POTS	44	NS	0536.0E	0607.0	602.0D	100.0			
	204	IZMI	43	NS	0600.0		360.0	15.0			
	127	TORN	44	NS	0630.0E	1433.0	510.0D	1500.0D	20.0		V=2
	260	ONDR	44	NS	0850.0E	1025.7	350.0D	393.0			
	280	CUBA	44	NS	1315.0E		525.0D		33.0		
	235	CUBA	44	NS	1315.0E		525.0D		29.0		
	245	SGMR	44	NS	1918.0E	1922.0	190.0D	290.0			QL=2 ST=2 TYP=1
	245	PALE	44	NS	2047.0E	2047.0	458.0D	110.0			QL=4 ST=2 TYP=1
	100	HIRA	44	NS	2100.0E	0200.0	700.0D	600.0	150.0		SL
	200	HIRA	44	NS	2100.0E	0332.0	700.0D	150.0	10.0		ML
	410	LEAR	8	S	0031.0E	0031.0	U	67.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0032.0E	0033.0	1408.0D	31.0			QL=4 ST=1 TYP=3
	245	LEAR	8	S	0033.0E	0033.0	U	87.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0033.0E	0033.0	U	86.0			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
15	17000	NOBE	7	C	0103.5	0104.1	9.0	21.0			O,80,35GHz:O
	1415	PALE	4	S/F	0246.0E	0248.0	11.0D	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0246.0	0248.8	8.0	87.1			
	2695	LEAR	4	S/F	0247.0E	0248.0	8.0D	94.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0247.0E	0248.0	8.0D	110.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0247.0E	0248.0	4.0D	79.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0248.0E	0248.0	U	21.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	0248.0E	0248.0	U	25.0			QL=4 ST=2 TYP=3
	2840	PEKG	29	PBI	0254.0	0254.0	16.0	20.6			
	15400	PALE	8	S	0327.0E	0328.0	1.0D	55.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0327.5	0328.2	4.0	48.0			O,80,35GHz:O
	35000	NOBE	7	C	0403.1	0404.5	5.0	21.0			O,80GHz:O
	17000	NOBE	7	C	0403.1	0404.5	8.0	90.0			O
	245	LEAR	49	GB	0440.0E	0444.0	8.0D	510.0			QL=2 ST=2 TYP=7
	2840	PEKG	3	S	0443.0	0448.8	11.0	14.4			
	950	GORK	20	GRF	0443.5	0448.0	10.3	3.0			
	2950	GORK	46	C	0443.5	0445.1	10.3	6.4			
	2950	GORK	46	C	0443.5	0452.2		5.8			
	2950	GORK	46	C	0443.5	0448.5		11.6			
	650	GORK	21	GRF	0443.5	0447.6	10.3	3.0			
	200	GORK	4	S/F	0444.0	0445.0	2.5	360.0			
	8800	LEAR	8	S	0447.0E	0447.0	U	20.0			QL=2 ST=2 TYP=3
	650	GORK	2	S/F	0447.6	0447.9	0.8	12.0			
	2695	LEAR	8	S	0448.0E	0448.0	U	18.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0456.0E	0456.0	1.0D	52.0			QL=2 ST=2 TYP=3
	9100	GORK	23	GRF	0525.3	0953.8	335.1	17.0			
	5900	KISV	22	GRF	0533.0	0536.5	23.0	10.0			
	9300	KISV	21	GRF	0533.3	0536.6	17.0	14.0			
	15000	KISV	2	S/F	0536.0	0536.5	6.0	11.0			
	2950	GORK	21	GRF	0547.2	0810.7	307.0	12.0			
	5900	KISV	2	S/F	0602.2	0603.3	23.0	4.0			
	15000	KISV	2	S/F	0605.5	0607.8	8.5	11.0			
	950	GORK	46	C	0649.1	0652.1		4.0			
	950	GORK	46	C	0649.1	0649.9	4.2	8.0			
	2840	PEKG	1	S	0651.0	0652.4	3.0	5.3			
	2850	CRIM	1	S	0651.3	0652.1	2.2	5.0	1.0		
	650	GORK	4	S/F	0651.5	0652.1	1.9	44.0			
	2950	GORK	1	S	0651.5	0652.3	1.8	5.1			
	9300	KISV	23	GRF	0723.5	0748.0	30.5	10.0			
	8800	LEAR	8	S	0738.0E	0739.0	1.0D	37.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0738.0E	0739.0	1.0D	68.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0738.0E	0739.0	2.0D	52.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0738.0E	0739.0	982.0D	66.0			QL=2 ST=1 TYP=3
	9100	GORK	2	S/F	0738.1	0739.2	9.1	63.0			
	9500	POTS	29	PBI	0738.2	0739.2	16.8	59.0			
	15000	KISV	2	S/F	0738.3	0740.1	9.7	41.0D			
	5900	KISV	2	S/F	0738.3	0739.2	9.7	13.0			
	9300	KISV	4	S/F	0738.3	0739.2	9.7	57.0			
	35000	NOBE	7	C	0738.4	0739.1	7.0	23.0			O,80GHz:O
	17000	NOBE	7	C	0738.4	0739.1	10.0	63.0			R
	15000	KISV	2	S/F	0807.4	0807.7	2.0	14.0			
	245	SVTO	8	S	0904.0E	0906.0	2.0D	260.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0906.0E	0906.0	U	120.0			QL=4 ST=2 TYP=3
	15000	KISV	2	S/F	0934.1	0934.3	1.1	11.0			
	5900	KISV	22	GRF	0934.9	0950.4	54.4	11.0			
	15000	KISV	22	GRF	0943.8	0953.4		24.0			
	15000	KISV	22	GRF	0943.8	0952.6	17.2	27.0			
	9300	KISV	22	GRF	0944.5	0952.7	15.9	18.0			
	9500	POTS	40	F	0944.6	0952.6	16.4	15.0			
	9100	GORK	2	S/F	0952.4	0952.7	1.4	13.0			
	204	IZMI	7	C	1002.0	1002.3	7.0	150.0			
	9300	KISV	2	S/F	1004.9	1005.2	1.9	7.0			
	100	GORK	41	F	1006.8	1022.0		200.0			
	100	GORK	41	F	1006.8	1012.1	15.9	130.0			
	100	GORK	41	F	1006.8	1015.9		260.0			
	610	LEAR	8	S	1012.0E	1012.0	1.0D	84.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1012.0	1012.2	2.0				
	200	GORK	8	S	1021.8	1022.2	0.7	2100.0			
	245	LEAR	49	GB	1022.0E	1022.0	U	840.0			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
15	245	SVTO	49	GB	1022.0E	1022.0	U	1100.0			QL=4 ST=2 TYP=6
	234	POTS	4	S/F	1022.0	1022.4	0.7	1500.0			
	204	IZMI	5	S	1022.0	1022.5	0.6	2500.0	1125.0		
	3013	IZMI	5	S	1054.5	1055.1	2.0	6.0	3.0		
	9500	POTS	2	S/F	1054.6	1055.1	1.4	8.0			
	100	GORK	4	S/F	1054.8	1055.2	1.3	650.0			
	200	GORK	3	S	1054.8	1055.2	0.9	45.0			
	9100	GORK	1	S	1054.8	1055.2	1.1	10.0			
	5900	KISV	4	S/F	1054.8	1055.3	1.7	23.0			
	950	GORK	2	S/F	1054.9	1055.2	1.7	4.5			
	650	GORK	2	S/F	1054.9	1055.2	1.7	3.0			
	9300	KISV	2	S/F	1055.0	1055.3	1.4	13.0			
	204	IZMI	8	S	1056.0	1056.1	0.5	300.0	200.0		
	245	SVTO	8	S	1130.0E	1130.0	U	54.0			QL=4 ST=3 TYP=3
	204	IZMI	5	S	1130.2	1130.5	0.3	250.0	125.0		
	15000	KISV	2	S/F	1133.2	1135.3	6.6	24.0			
	9500	POTS	40	F	1133.7	1135.4	8.7	10.0			
	9100	GORK	46	C	1134.3	1135.3	5.3	10.0			
	9100	GORK	46	C	1134.3	1138.5		6.0			
	9300	KISV	45	C	1134.6	1135.4	6.1	10.0			
	9300	KISV	45	C	1134.6	1137.8		8.0			
	9100	GORK	21	GRF	1157.0E	1242.0	63.0D	15.0			
	9100	GORK	1	S	1227.6	1228.0	0.8	12.0			
	9300	KISV	2	S/F	1227.7	1228.0	1.5	11.0			
	15000	KISV	2	S/F	1227.8	1228.1	1.3	33.0			
	410	SGMR	8	S	1228.0E	1228.0	1.0D	71.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1300.0E	1300.0	U	640.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1300.0E	1300.0	1.0D	670.0			QL=2 ST=3 TYP=6
	113	POTS	4	S/F	1345.0	1346.1	2.3	650.0			
	610	SGMR	8	S	1346.0E	1346.0	1.0D	210.0			QL=4 ST=2 TYP=3
	40	POTS	4	S/F	1346.1	1346.7	2.9	U			
	33	UPIC	4	S/F	1346.3	1347.0	1.5				
	9500	POTS	2	S/F	1346.4	1347.0	2.1	6.0			
	113	POTS	4	S/F	1431.8	1433.1	2.4	350.0			
	40	POTS	4	S/F	1432.5	1433.1	1.5	U			
	33	UPIC	8	S	1433.0	1433.1	0.3				
	234	POTS	4	S/F	1510.1E	1510.3U	0.9D	100.0			
	113	POTS	4	S/F	1510.1	1510.6	0.9	500.0			
	245	SGMR	8	S	1515.0E	1515.0	U	68.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1528.4	1532.7	8.4	7.1	3.2		
	245	SGMR	49	GB	1624.0E	1626.0	2.0D	1300.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1624.0E	1626.0	2.0D	1400.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1625.0E	1626.0	2.0D	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1625.0E	1626.0	2.0D	1200.0			QL=2 ST=2 TYP=6
	2800	OTTA	3	S	1625.8	1626.0	2.1	69.5	21.0		
	15000	CUBA	1	S	1707.6	1709.8	4.3	9.0	4.0		30R
	245	PALE	8	S	1709.0E	1709.0	U	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1709.0E	1709.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1727.0E	1727.0	U	380.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1727.0E	1727.0	1.0D	450.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1732.0E	1735.0	3.0D	89.0			QL=4 ST=2 TYP=3
	9400	HUAN	21	GRF	1735.6	1808.3	49.3	10.1	4.8		
	9500	CUBA	23	GRF	1740.0	1744.0	9.0	23.0	11.0		
	9400	HUAN	1	S	1740.0	1742.1	6.9	12.1	5.6		
	15000	CUBA	2	S/F	1740.7	1742.1	4.6	33.0	16.0		16R
	9400	HUAN	3	S	1803.6	1804.9	2.9	161.8	66.8		
	9500	CUBA	45	C	1803.9	1804.5	2.6	152.0	36.0		
	4995	PALE	8	S	1804.0E	1804.0	U	26.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1804.0E	1804.0	1.0D	160.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1804.0E	1804.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1804.0E	1805.0	4.0D	52.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1804.0E	1804.0	1.0D	140.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1804.0E	1804.0	1.0D	130.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1805.0E	1805.0	1.0D	79.0			QL=4 ST=2 TYP=3
	9400	HUAN	20	GRF	1831.3	1845.0	27.2	11.1	4.8		
	15000	CUBA	1	S	1844.1	1845.2	3.2	10.0	5.0		57R
	9500	CUBA	2	S/F	1917.0	1919.7	5.7	22.0	11.0		
	15000	CUBA	42	SER	1917.2	1920.1	6.8	19.0			22R
	245	PALE	8	S	1922.0E	1922.0	1.0D	250.0			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
15	2800	OTTA	3	S	1923.7	1925.3	6.6	8.2	3.0		
	15000	CUBA	2	S/F	1935.2	1936.5	3.9	150.0	75.0		35R
	245	PALE	8	S	2026.0E	2028.0	2.0D	160.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	2034.9	2036.2	9.3	135.5	66.4		
	8800	PALE	8	S	2035.0E	2036.0	2.0D	89.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2035.0E	2036.0	2.0D	92.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2035.0E	2036.0	2.0D	910.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	2035.0E	2036.0	2.0D	71.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2035.0E	2036.0	2.0D	1900.0			QL=4 ST=2 TYP=6
	4995	SGMR	4	S/F	2035.0E	2036.0	205.0D	51.0			QL=4 ST=1 TYP=3
	2800	OTTA	3	S	2035.0	2036.6	4.5	25.6	10.0		
	9500	CUBA	4	S/F	2035.5	2036.5	8.3	115.0	20.0		
	2695	PALE	8	S	2036.0E	2036.0	U	22.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2036.0E	2036.0	1.0D	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2036.0E	2036.0	204.0D	30.0			QL=4 ST=1 TYP=3
	9400	HUAN	1	S	2051.2	2054.3	5.5	11.1	5.2		
	15000	CUBA	1	S	2053.3	2053.9	1.3	12.0	6.0		21R
	2800	OTTA	3	S	2119.9	2120.9	2.8	15.8	6.0		
	245	PALE	4	S/F	2127.0E	2127.0	5.0D	120.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	2127.0E	2127.0	1.0D	50.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2127.0E	2128.0	1.0D	42.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	2202.0E	2206.0	5.0D	32.0	16.0		38R
	9400	HUAN	2	S/F	2202.3	2206.2	5.9	20.2	9.6		
	245	PALE	8	S	2209.0E	2209.0	U	260.0			QL=2 ST=2 TYP=3
	9500	CUBA	47	GB	2222.0	2227.2	23.0	607.0			
	2695	PENT	4	S/F	2222.1	2227.2	16.1	131.2	39.0		
	15000	CUBA	47	GB	2222.4	2232.8		188.0			31R
	15000	CUBA	47	GB	2222.4	2226.8	23.5	1428.0			8R
	9400	HUAN	45	C	2223.0	2228.4U	13.6	149.6	69.8		
	2695	PALE	4	S/F	2225.0E	2227.0	4.0D	140.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	2225.0E	2227.0	4.0D	180.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2225.0E	2226.0	8.0D	840.0			QL=4 ST=2 TYP=6
	410	PALE	4	S/F	2225.0E	2226.0	8.0D	300.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2225.0E	2226.0	4.0D	3700.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	2225.0E	2226.0	8.0D	490.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2225.0E	2226.0	3.0D	1700.0			QL=4 ST=3 TYP=6
	8800	PALE	49	GB	2225.0E	2226.0	11.0D	1200.0			QL=4 ST=2 TYP=6
	200	HIRA	46	C	2225.5	2226.0	4.0	1500.0	300.0		WR
	80000	NOBE	7	C	2225.5	2227.1	16.0	87.0			R
	35000	NOBE	7	C	2225.5	2227.1	16.0	430.0			R
	17000	NOBE	7	C	2225.5	2226.5	16.0	635.0			R
	500	HIRA	45	C	2225.7	2227.1	13.0	115.0	40.0		WR
	1415	PALE	8	S	2226.0E	2227.0	2.0D	170.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2226.0E	2227.0	2.0D	170.0			QL=4 ST=3 TYP=3
	1415	SGMR	8	S	2226.0E	2227.0	2.0D	100.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	2226.0E	2227.0	2.0D	170.0			QL=4 ST=3 TYP=3
	2695	SGMR	8	S	2226.0E	2227.0	2.0D	130.0			QL=4 ST=3 TYP=3
	4995	SGMR	8	S	2226.0E	2226.0	2.0D	280.0			QL=4 ST=3 TYP=3
	8800	SGMR	8	S	2226.0E	2226.0	2.0D	570.0			QL=4 ST=3 TYP=3
	100	HIRA	46	C	2226.0	2226.6	2.0	3000.0			
	245	PALE	4	S/F	2251.0E	2251.0	3.0D	150.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	2251.0E	2252.0	69.0D	110.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	2303.0E	2303.0	U	64.0			QL=2 ST=2 TYP=3
16	200	GORK	44	NS	0427.0E		420.0D		10.0		
	100	GORK	44	NS	0427.0E		420.0D		10.0		
	245	SVTO	44	NS	0523.0E	0854.0	526.0D	330.0			QL=4 ST=2 TYP=1
	234	POTS	44	NS	0533.0E	1100.0	567.0D	400.0			
	113	POTS	44	NS	0540.0E	0605.0	560.0D	70.0			
	204	IZMI	43	NS	0600.0		360.0	25.0			
	127	TORN	44	NS	0630.0E		510.0D		130.0		V=2
	260	ONDR	44	NS	0850.0E	0959.0U	350.0D	536.0U			
	245	SGMR	44	NS	1114.0E	2140.0	675.0D	780.0			QL=2 ST=2 TYP=1
	280	CUBA	44	NS	1307.0E		534.0D		41.0		
	235	CUBA	44	NS	1307.0E		534.0D		35.0		
	100	HIRA	44	NS	2100.0E	2332.0	700.0D	250.0	50.0		ML
	200	HIRA	44	NS	2100.0E	0226.6	700.0D	50.0	5.0		ML
	410	LEAR	8	S	0006.0E	0006.0	2.0D	110.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0006.0E	0008.0	3.0D	9800.0			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
16	245	PALE	49	GB	0006.0E	0008.0	2.0D	11000.0			QL=4 ST=2 TYP=6
	100	HIRA	42	SER	0006.3	0008.3	2.6	11500.0			
	500	HIRA	42	SER	0006.5	0008.2	6.0	120.0			WR
	200	HIRA	42	SER	0006.6	0008.0	2.6	20000.0			MR
	17000	NOBE	1	S	0007.8	0008.2	2.0	60.0			O,80,35GHz:O
	2695	PENT	3	S	0007.9	0008.4	2.7	15.6	5.0		
	15400	LEAR	8	S	0008.0E	0008.0	U	41.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0008.0E	0008.0	U	36.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0008.0E	0008.0	1.0D	37.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0044.0E	0049.0	19.0D	15000.0			QL=2 ST=2 TYP=6
	2840	PEKG	47	GB	0045.5	0048.0	10.5	812.2			
	80000	NOBE	29	PBI	0045.9	0053.1	16.0	24.0			R
	35000	NOBE	29	PBI	0045.9	0053.1	16.0	84.0			R
	17000	NOBE	29	PBI	0045.9	0053.1	16.0	46.0			R
	35000	NOBE	45	C	0045.9	0047.7	7.2	2720.0			R
	80000	NOBE	45	C	0045.9	0047.7	7.2	340.0			R
	17000	NOBE	45	C	0045.9	0048.8	7.2	2060.0			R
	8800	PALE	49	GB	0046.0E	0048.0	9.0D	1700.0			QL=4 ST=2 TYP=7
	2695	PALE	49	GB	0046.0E	0049.0	8.0D	910.0			QL=4 ST=2 TYP=7
	500	HIRA	46	C	0046.0	0048.0	18.0	6000.0	85.0		WLMR
	15400	LEAR	49	GB	0046.0E	0048.0	10.0D	2200.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0046.0E	0047.0	14.0D	830.0			QL=4 ST=2 TYP=6
	610	LEAR	49	GB	0046.0E	0047.0	14.0D	2000.0			QL=4 ST=2 TYP=6
	1415	LEAR	49	GB	0046.0E	0049.0	10.0D	1200.0			QL=4 ST=2 TYP=6
	1415	PALE	49	GB	0046.0E	0049.0	10.0D	1300.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	0046.0E	0047.0	11.0D	1900.0			QL=4 ST=2 TYP=7
	245	PALE	49	GB	0046.0E	0049.0	16.0D	18000.0			QL=4 ST=2 TYP=7
	410	PALE	49	GB	0046.0E	0047.0	13.0D	970.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	0046.0E	0048.0	11.0D	2400.0			QL=4 ST=2 TYP=7
	100	HIRA	42	SER	0046.0	0049.0	58.0	14500.0			
	2695	LEAR	49	GB	0046.0E	0049.0	1394.0D	1000.0			QL=2 ST=1 TYP=6
	2695	PENT	47	GB	0046.1	0049.1	12.1	977.0	195.0		
	8800	LEAR	49	GB	0047.0E	0048.0	5.0D	1200.0			QL=2 ST=2 TYP=6
	4995	LEAR	49	GB	0047.0E	0050.0	6.0D	550.0			QL=2 ST=2 TYP=6
	4995	PALE	49	GB	0047.0E	0049.0	1393.0D	680.0			QL=4 ST=1 TYP=7
	200	HIRA	48	C	0047.5	0049.3	10.0	20000.0	700.0		MR
	2840	PEKG	30	PBI	0056.0	0056.0	45.0	15.4			
	2840	PEKG	1	S	0101.0	0101.6	1.0	7.7			
	610	LEAR	8	S	0114.0E	0116.0	2.0D	60.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0114.0E	0116.0	2.0D	52.0			QL=4 ST=3 TYP=3
	245	LEAR	4	S/F	0204.0E	0218.0	16.0D	130.0			QL=2 ST=2 TYP=5
	410	LEAR	8	S	0210.0E	0211.0	2.0D	52.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0211.0E	0211.0	1.0D	48.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0309.0E	0309.0	U	160.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	0320.0E	0320.0	U	300.0			QL=4 ST=2 TYP=3
	2840	PEKG	20	GRF	0336.0	0429.4	88.0	15.1			
	100	GORK	46	C	0426.5	0427.5		1900.0			
	100	GORK	46	C	0426.5	0426.7	1.6	640.0			
	200	GORK	4	S/F	0426.6	0427.5	1.5	230.0			
	5900	KISV	2	S/F	0540.4	0541.9	5.6	4.0			
	5900	KISV	2	S/F	0605.4	0607.1	5.4	4.0			
	204	IZMI	41	F	0630.0	0630.5	1.5	500.0			
	9300	KISV	2	S/F	0648.0	0648.0	2.3	7.0			
	9100	GORK	23	GRF	0700.9	1103.0	273.1	20.0			
	15000	KISV	2	S/F	0707.6	0708.7	1.4	12.0			
	5900	KISV	1	S	0720.5	0720.9	1.0	3.0			
	100	GORK	41	F	0726.4	0735.7		900.0			
	100	GORK	41	F	0726.4	0747.9		270.0			
	100	GORK	41	F	0726.4	0726.9	21.7	310.0			
	650	GORK	23	GRF	0731.4	0745.7	28.6	9.5			
	200	GORK	41	F	0731.7	0733.1	16.4	320.0			
	200	GORK	41	F	0731.7	0747.5		560.0			
	410	LEAR	49	GB	0732.0E	0732.0	2.0D	570.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0732.0E	0733.0	1.0D	1800.0			QL=2 ST=2 TYP=6
	410	SVTO	8	S	0732.0E	0732.0	2.0D	340.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0732.0E	0733.0	1.0D	1500.0			QL=2 ST=2 TYP=6
	500	HIRA	42	SER	0732.5	0744.5	14.0	320.0			O
	113	POTS	4	S/F	0732.5	0735.6	5.9	600.0			
	234	POTS	4	S/F	0732.6	0733.2	1.5	400.0			

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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
16	950	GORK	21	GRF	0733.3	0746.3	17.7	6.0			
	40	POTS	4	S/F	0735.5	0735.7	1.3	U			
	2950	GORK	21	GRF	0735.6	0736.5	13.2	3.8			
	1470	POTS	40	F	0740.5	0743.0	7.5	29.0			
	950	GORK	46	C	0740.6	0745.2		37.0			
	650	GORK	46	C	0740.7	0743.0	5.3	23.0			
	650	GORK	46	C	0740.7	0745.0		87.0			
	5900	KISV	21	GRF	0740.8	0747.6	11.1	5.0			
	2850	CRIM	7	C	0740.9	0742.0	5.0	9.0	6.0		
	2850	CRIM	7	C	0740.9	0743.0		19.0			
	2850	CRIM	7	C	0740.9	0745.4		10.0			
	245	LEAR	8	S	0741.0E	0742.0	1.0D	140.0			QL=2 ST=2 TYP=3
	600	HUMN	2	S/F	0741.0	0745.6	7.8	38.0	5.0		
	2950	GORK	46	C	0741.6	0742.0	4.2	7.8			
	3000	POTS	40	F	0741.6U	0743.0U	4.9U	16.0			
	2950	GORK	46	C	0741.9	0745.5		7.8			
	1415	LEAR	8	S	0742.0E	0743.0	1.0D	28.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0742.0E	0743.0	1.0D	36.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0744.0E	0745.0	1.0D	120.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0744.0E	0745.0	1.0D	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0744.0E	0745.0	1.0D	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0745.0E	0745.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0745.0E	0745.0	U	220.0			QL=2 ST=2 TYP=3
	200	GORK	46	C	0853.8	0855.1		370.0			
	234	POTS	4	S/F	0853.8	0854.2	2.3	30.0			
	200	GORK	46	C	0853.8	0854.3	1.9	190.0			
	113	POTS	4	S/F	0854.0	0855.2	2.9	200.0			
	9300	KISV	2	S/F	0854.7	0855.1	2.1	7.0			
	100	GORK	46	C	0854.8	0855.2	2.5	260.0			
	100	GORK	46	C	0854.8	0856.7		180.0			
	5900	KISV	21	GRF	0854.9	0855.1	11.7	6.0			
	5900	KISV	22	GRF	0914.3	0935.4	37.2	14.0			
	2950	GORK	22	GRF	0914.6	0922.4	24.4	6.3			
	9300	KISV	22	GRF	0919.1	0929.5	22.9	10.0			
	245	LEAR	49	GB	0958.0E	0958.0	1.0D	1400.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0958.0E	0958.0	U	40.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0958.0E	0958.0	1.0D	99.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0958.0E	0958.0	1.0D	1200.0			QL=2 ST=2 TYP=6
	234	POTS	4	S/F	0958.4	0958.5	0.8	2200.0			
	536	ONDR	41	F	1037.5	1042.8	81.0	143.0			
	15000	KISV	30	PBI	1039.5E	1039.5	54.5D	13.0			
	430	KRAK	45	C	1042.0U	1104.0U	31.5U	175.0D	50.0D		
	3013	IZMI	45	C	1045.5	1051.3	9.0	196.0			
	950	GORK	21	GRF	1045.9	1055.4	44.0D	8.5			
	2950	GORK	30	PBI	1046.0	1054.0	40.0	24.0			
	2850	CRIM	30	PBI	1046.0	1055.0	60.0	18.0	6.0		
	2850	CRIM	3	S	1046.0	1051.2	9.0	270.0	81.0		
	2950	GORK	4	S/F	1046.0	1051.2	8.0	240.0			
	9100	GORK	4	S/F	1046.1	1051.2	16.9	360.0			
	950	GORK	2	S/F	1046.9	1047.1	1.4	13.0			
	2695	SVTO	4	S/F	1047.0E	1051.0	6.0D	250.0			QL=4 ST=2 TYP=5
	8800	SVTO	4	S/F	1047.0E	1051.0	8.0D	340.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	1047.0E	1051.0	11.0D	440.0			QL=2 ST=2 TYP=5
	9300	KISV	4	S/F	1047.3	1051.0	8.7	131.0D			
	9300	KISV	30	PBI	1047.3	1056.0	76.0	30.0			
	650	GORK	23	GRF	1047.7	1056.6	42.0D	7.0			
	536	ONDR	47	GB	1047.8	1052.0	19.0	93.0			
	33	UPIC	32	ABS	1048.0	1054.5	42.0				
	127	TORN	4	S/F	1050.0	1051.0U	3.2	3200.0D	980.0		
	204	IZMI	41	F	1050.0	1051.0	3.5	1200.0			
	15400	SVTO	4	S/F	1050.0E	1051.0	3.0D	140.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	1050.0E	1052.0	3.0D	72.0			QL=4 ST=2 TYP=3
	30	POTS	4	S/F	1050.0U	1051.4	3.6U	24000.0D			
	808	ONDR	47	GB	1050.0	1053.4	16.0	45.0			
	260	ONDR	47	GB	1050.0	1052.5	27.0	659.0U			
	810	KRAK	7	C	1050.0	1051.7	5.0	41.0	17.0		
	15000	KISV	4	S/F	1050.3	1051.3	9.2	111.0			
	650	GORK	46	C	1050.5	1051.6	6.1	80.0			
	113	POTS	4	S/F	1050.5	1051.6	3.1	3500.0D			

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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
16	650	GORK	46	C	1050.5	1052.8		44.0			
	950	GORK	5	S	1050.5	1052.9	4.9	52.0			
	100	GORK	46	C	1050.6	1051.2	2.7	8100.0			
	100	GORK	46	C	1050.6	1051.9		7700.0			
	200	GORK	46	C	1050.7	1051.1	3.0	1100.0			
	200	GORK	46	C	1050.7	1051.6		930.0			
	234	POTS	4	S/F	1050.7	1051.7	2.0	1000.0			
	33	UPIC	46	C	1050.8	1051.2	2.7				
	410	SVTO	4	S/F	1051.0E	1058.0	7.0D	220.0			QL=4 ST=2 TYP=5
	245	SVTO	49	GB	1051.0E	1051.0	2.0D	520.0			QL=2 ST=2 TYP=6
	600	HUMN	45	C	1051.0	1052.8	6.9	44.0	12.0		
	610	SVTO	8	S	1052.0E	1052.0	1.0D	41.0			QL=4 ST=2 TYP=3
	5900	KISV	30	PBI	1052.0	1058.3	67.2	24.0			
	5900	KISV	47	GB	1052.0	1052.4	6.3	258.0			
	410	SVTO	49	GB	1058.0E	1103.0	7.0D	930.0			QL=4 ST=2 TYP=7
	245	SVTO	49	GB	1058.0E	1100.0	7.0D	740.0			QL=2 ST=2 TYP=6
	650	GORK	46	C	1100.5	1104.0		20.0			
	950	GORK	46	C	1100.5	1104.1		16.0			
	810	KRAK	7	C	1100.5	1102.5	5.0	29.0	10.0		
	650	GORK	46	C	1100.5	1102.6	4.4	50.0			
	950	GORK	46	C	1100.5	1102.7	4.4	25.0			
	600	HUMN	2	S/F	1101.0	1103.4	5.8	16.0	4.0		
	610	SVTO	8	S	1102.0E	1102.0	1.0D	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1108.0E	1109.0	1.0D	320.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1109.0E	1111.0	4.0D	190.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1109.0E	1109.0	U	35.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	1110.0	1110.0	60.0	1500.0			
	5900	KISV	45	C	1115.2	1121.5		9.0			
	5900	KISV	45	C	1115.2	1116.8	9.5	24.0			
	3013	IZMI	5	S	1116.0	1117.0	2.0	10.0	5.0		
	2850	CRIM	1	S	1116.0	1116.6	1.3	10.0	3.0		
	3000	POTS	4	S/F	1116.0U	1116.8U	2.5U	13.0			
	2950	GORK	1	S	1116.2	1116.7	1.5	10.6			
	9100	GORK	1	S	1116.4	1116.7	0.8	6.0			
	5900	KISV	4	S/F	1139.0	1142.8	8.0	166.0			
	430	KRAK	8	S	1139.8	1140.2	0.5	180.0D			
	15000	KISV	4	S/F	1141.5	1142.2	4.5	711.0			
	4995	SGMR	8	S	1142.0E	1142.0	2.0D	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1142.0E	1142.0	1.0D	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1142.0E	1142.0	1.0D	63.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1142.0E	1142.0	1.0D	52.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1142.0E	1142.0	1.0D	75.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	1142.0E	1142.0	1.0D	130.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1142.0E	1142.0	1.0D	130.0			QL=2 ST=2 TYP=3
	2850	CRIM	1	S	1142.0	1142.7	2.8	66.0	20.0		
	9300	KISV	4	S/F	1142.0	1142.8	6.2	112.0			
	3013	IZMI	5	S	1142.3	1142.6	2.8	35.0	17.0		
	430	KRAK	42	SER	1154.5	1156.0	10.2	180.0D			
	410	SGMR	4	S/F	1155.0E	1159.0	4.0D	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1156.0E	1156.0	U	84.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1158.0E	1159.0	1.0D	390.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	1230.0	1230.5	4.5	15.0			
	536	ONDR	46	C	1238.0	1242.8	5.5	143.0			
	410	SGMR	49	GB	1240.0E	1242.0	3.0D	770.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1240.0E	1243.0	4.0D	150.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1240.0E	1242.0	4.0D	72.0			QL=4 ST=2 TYP=5
	245	SGMR	4	S/F	1240.0E	1243.0	3.0D	340.0			QL=4 ST=2 TYP=5
	15400	SGMR	8	S	1240.0E	1240.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1240.0E	1243.0	3.0D	350.0			QL=2 ST=2 TYP=5
	410	SVTO	49	GB	1240.0E	1242.0	4.0D	550.0			QL=4 ST=2 TYP=6
	15400	SVTO	8	S	1240.0E	1240.0	1.0D	100.0			QL=2 ST=2 TYP=3
	610	SVTO	4	S/F	1240.0E	1243.0	4.0D	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1240.0E	1242.0	4.0D	67.0			QL=2 ST=2 TYP=5
	5900	KISV	30	PBI	1240.0	1246.3	19.0	19.0			
	808	ONDR	46	C	1240.0	1243.5	5.6	91.0			
	260	ONDR	46	C	1240.0	1248.5	13.5	553.0U			
	5900	KISV	4	S/F	1240.0	1242.6	6.3	109.0			
	9300	KISV	45	C	1240.1	1242.6	19.9	72.0			
	9300	KISV	45	C	1240.1	1240.7		67.0			

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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
16	33	UPIC	46	C	1240.5	1241.0U	3.2				
	600	HUMN	2	S/F	1241.2	1244.0	9.1	91.0	11.0		
	430	KRAK	46	C	1241.7E	1243.2	2.5D	180.0D	33.0		
	810	KRAK	45	C	1242.0E	1243.0	2.5D	108.0	19.0		
	2695	SGMR	8	S	1242.0E	1243.0	1.0D	32.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1242.0E	1242.0	1.0D	59.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1242.0E	1242.0	1.0D	42.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1242.0E	1243.0	1.0D	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1242.0E	1242.0	1.0D	63.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1243.0E	1243.0	U	26.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1248.0E	1248.0	1.0D	2000.0			QL=4 ST=3 TYP=6
	245	SVTO	49	GB	1248.0E	1248.0	1.0D	2100.0			QL=2 ST=2 TYP=6
	5900	KISV	4	S/F	1253.3	1256.0	7.7	41.0			
	9400	HUAN	1	S	1254.2	1256.0	5.3	10.0	4.2		
	430	KRAK	2	S/F	1255.0	1256.0	2.0	19.0	5.0		
	810	KRAK	1	S	1255.5	1255.7	1.0	8.0	2.0		
	610	SGMR	8	S	1450.0E	1450.0	U	71.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1450.0E	1450.0	U	53.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1521.8	1525.0	6.4	6.0	2.8		
	280	CUBA	7	C	1526.4	1540.3	16.4	427.0			
	235	CUBA	7	C	1526.4	1540.3	16.4	112.0			
	245	SGMR	49	GB	1528.0E	1530.0	4.0D	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1528.0E	1528.0	U	41.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1528.0E	1530.0	4.0D	1200.0			QL=2 ST=2 TYP=6
	600	HUMN	41	F	1528.0	1529.0	20.0	30.0			
	410	SVTO	4	S/F	1530.0E	1531.0	3.0D	88.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1531.0E	1532.0	2.0D	84.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1538.0E	1538.0	1.0D	420.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1538.0E	1538.0	1.0D	430.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1542.0E	1542.0	U	98.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1542.0E	1542.0	U	60.0			QL=2 ST=2 TYP=3
	9400	HUAN	3	S	1702.4	1703.4	2.4	36.0	13.6		
	2800	OTTA	3	S	1702.9	1703.6	2.5	41.2	12.0		
	410	PALE	4	S/F	1703.0E	1703.0	3.0D	190.0			QL=4 ST=2 TYP=5
	4995	PALE	8	S	1703.0E	1703.0	U	85.0			QL=4 ST=3 TYP=3
	245	PALE	4	S/F	1703.0E	1703.0	4.0D	290.0			QL=4 ST=2 TYP=5
	410	SGMR	8	S	1703.0E	1703.0	2.0D	170.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1703.0E	1703.0	U	38.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1703.0E	1703.0	2.0D	73.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1703.0E	1703.0	U	47.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1703.0E	1703.0	U	34.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1703.0E	1703.0	2.0D	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1703.0E	1703.0	2.0D	400.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1703.0	1703.5	1.0	53.0	26.0		
	245	SGMR	8	S	1705.0E	1705.0	U	130.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1705.0E	1705.0	1.0D	250.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1747.0	1749.8	6.5	6.0	2.8		
	2800	OTTA	4	S/F	1800.8	1805.5	14.8	64.6	13.0		
	9400	HUAN	45	C	1801.5	1805.0	6.2	334.2	112.4		
	410	PALE	4	S/F	1802.0E	1809.0	7.0D	360.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1802.0E	1803.0	7.0D	1300.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	1802.0E	1803.0	12.0D	1500.0			QL=4 ST=2 TYP=7
	9500	CUBA	46	C	1802.5	1805.0	7.0	283.0	22.0		
	245	SGMR	49	GB	1803.0E	1805.0	4.0D	1800.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	1804.0E	1805.0	2.0D	1800.0			QL=2 ST=2 TYP=6
	4995	PALE	8	S	1804.0E	1805.0	2.0D	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1804.0E	1805.0	2.0D	160.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1804.0E	1805.0	2.0D	300.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1804.0E	1806.0	3.0D	340.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1804.0E	1805.0	2.0D	80.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1805.0E	1805.0	1.0D	85.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1805.0E	1805.0	U	230.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1805.0E	1805.0	1.0D	61.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1805.0E	1805.0	1.0D	140.0			QL=4 ST=2 TYP=3
	280	CUBA	7	C	1805.0E	1806.0U	3.0D	113.0D			
	235	CUBA	7	C	1805.0E	1806.0U	3.0D	204.0D			
	9400	HUAN	30	PBI	1807.7	1807.7	33.9	10.0	4.8		
	9500	CUBA	30	PBI	1809.5		7.5	7.0	3.0		
	610	SGMR	4	S/F	1810.0E	1812.0	5.0D	57.0			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
16	9400	HUAN	4	S/F	1810.8	1812.3	3.8	32.0	14.6		
	9500	CUBA	2	S/F	1811.5	1812.2	2.5	26.0	13.0		
	410	SGMR	8	S	1812.0E	1812.0	1.0D	40.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1812.0E	1812.0	U	34.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1900.0E	1900.0	2.0D	210.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1944.0E	1945.0	4.0D	160.0			QL=4 ST=2 TYP=3
	9400	HUAN	3	S	2005.7	2007.0	3.9	42.0	18.9		
	4995	PALE	8	S	2006.0E	2006.0	1.0D	96.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2006.0E	2007.0	2.0D	64.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2006.0E	2006.0	1.0D	1500.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	2006.0E	2006.0	5.0D	1100.0			QL=4 ST=2 TYP=6
	2695	PALE	8	S	2006.0E	2007.0	2.0D	76.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	2006.0E	2006.0	2.0D	940.0			QL=4 ST=2 TYP=6
	1415	SGMR	4	S/F	2006.0E	2007.0	4.0D	63.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2006.0E	2007.0	2.0D	84.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2006.0E	2007.0	2.0D	120.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2006.0	2007.1	8.5	81.5	24.0		
	245	PALE	8	S	2007.0E	2007.0	U	65.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2007.0E	2007.0	U	47.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2007.0E	2007.0	3.0D	130.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2018.0E	2018.0	3.0D	230.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2018.0E	2019.0	3.0D	240.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	2018.0	2021.1	7.1	26.0	14.2		
	9500	CUBA	4	S/F	2018.2	2021.5	6.8	29.0	14.0		
	410	SGMR	8	S	2021.0E	2021.0	U	64.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2021.0E	2021.0	U	29.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	2045.0	2051.0	8.9	162.1	56.4		
	410	SGMR	8	S	2045.0E	2045.0	1.0D	110.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	2045.0	2049.0	15.0	10.0	5.0		
	4995	SGMR	4	S/F	2048.0E	2051.0	4.0D	110.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2048.3	2051.1	7.1	20.0	6.0		
	610	PALE	8	S	2049.0E	2049.0	1.0D	46.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2049.0E	2050.0	1.0D	54.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2049.0E	2050.0	2.0D	71.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	2049.0E	2051.0	3.0D	150.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	2049.5	2049.9	3.6	318.0	106.0		
	1415	PALE	8	S	2050.0E	2050.0	U	100.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2050.0E	2050.0	1.0D	34.0			QL=2 ST=2 TYP=3
	8800	PALE	8	S	2050.0E	2050.0	1.0D	88.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	2050.0E	2050.0	U	98.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	2050.0E	2050.0	U	95.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2050.0E	2051.0	2.0D	52.0			QL=4 ST=2 TYP=3
	280	CUBA	49	GB	2140.0	2155.0	21.0D	10819.0			
	235	CUBA	47	GB	2140.0	2155.0	21.0D	2411.0D			
	245	SGMR	8	S	2141.0E	2141.0	1.0D	350.0			QL=4 ST=2 TYP=3
	9500	CUBA	47	GB	2141.0	2156.5	26.0	758.0			
	9500	CUBA	47	GB	2141.0	2152.8		710.0			
	245	SGMR	8	S	2143.0E	2143.0	1.0D	480.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2143.0E	2143.0	1.0D	34.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	2148.7	2200.2	18.3	290.2	124.8		
	245	SGMR	49	GB	2149.0E	2155.0	8.0D	10000.0			QL=4 ST=2 TYP=7
	8800	SGMR	49	GB	2150.0E	2152.0	11.0D	1800.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	2150.0E	2152.0	11.0D	740.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	2150.0E	2153.0	11.0D	3100.0			QL=4 ST=2 TYP=6
	35000	NOBE	45	C	2150.3	2152.5	16.0	1380.0			R
	17000	NOBE	45	C	2150.3	2152.5	16.0	2200.0			R
	80000	NOBE	45	C	2150.3	2152.5	16.0	280.0			R
	2800	OTTA	4	S/F	2150.5	2152.6	17.1	436.9	131.0		
	610	SGMR	49	GB	2151.0E	2153.0	10.0D	4100.0			QL=4 ST=2 TYP=6
	100	HIRA	42	SER	2151.2	2152.0	11.0	1000.0D			
	200	HIRA	46	C	2151.2	2152.0	7.3	3000.0	400.0		ML
	1415	PALE	4	S/F	2152.0	2152.0	11.0D	290.0			QL=4 ST=2 TYP=3
	2695	PALE	20	GRF	2152.0	2152.0	11.0D	400.0			QL=4 ST=2 TYP=2
	4995	PALE	49	GB	2152.0	2152.0	10.0D	670.0			QL=2 ST=2 TYP=6
	610	PALE	49	GB	2152.0	2153.0	11.0D	4900.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	2152.0	2154.0	11.0D	3500.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2152.0	2155.0	12.0D	10000.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	2152.0	2152.0	10.0D	2500.0			QL=2 ST=2 TYP=6
	8800	PALE	49	GB	2152.0	2152.0	10.0D	1400.0			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
16	410	SGMR	8	S	2201.0E	2201.0	2.0D	96.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2201.0E	2201.0	1.0D	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2201.0E	2201.0	2.0D	51.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2201.0E	2201.0	3.0D	47.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2201.0E	2201.0	3.0D	62.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2201.0E	2201.0	6.0D	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2201.0E	2201.0	1.0D	140.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2213.0E	2215.0	3.0D	6600.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2214.0E	2215.0	2.0D	130.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	2214.6	2215.4	3.7	24.0	10.6		
	610	PALE	8	S	2215.0E	2215.0	1.0D	91.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2215.0E	2215.0	1.0D	3900.0			QL=2 ST=2 TYP=6
	410	SGMR	8	S	2215.0E	2215.0	1.0D	67.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2219.0E	2219.0	1.0D	95.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2219.0E	2219.0	1.0D	71.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2312.0E	2316.0	4.0D	85.0			QL=4 ST=2 TYP=5
	245	LEAR	8	S	2328.0E	2328.0	U	96.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	2333.0E	2334.0	1.0D	61.0			QL=2 ST=2 TYP=3
17	245	PALE	44	NS	0007.0E	0024.0	258.0D	130.0			QL=4 ST=2 TYP=1
	245	LEAR	44	NS	0216.0E	0240.0	309.0D	160.0			QL=4 ST=2 TYP=1
	200	GORK	44	NS	0424.0E		430.0D		5.0		
	100	GORK	44	NS	0424.0E		430.0D		5.0		
	245	SVTO	44	NS	0528.0E	0839.0	1112.0D	210.0			QL=4 ST=1 TYP=1
	204	IZMI	43	NS	0600.0		360.0	50.0			
	234	POTS	44	NS	0600.0E	1250.0U	562.0D	45.0			
	113	POTS	44	NS	0624.0E	0629.0	537.0D	35.0			
	127	TORN	44	NS	0630.0E		510.0D		30.0		V=2
	260	ONDR	44	NS	0850.0E	1027.5	350.0D	532.0U			
	33	UPIC	43	NS	1018.0	1411.7	3420.0D				
	245	SGMR	44	NS	1202.0E	1257.0	628.0D	150.0			QL=2 ST=2 TYP=1
	280	CUBA	44	NS	1325.0E		515.0D		47.0		
	235	CUBA	44	NS	1325.0E		515.0D		44.0		
	245	PALE	44	NS	2049.0E	2252.0	456.0D	230.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	2346.0	700.0D	100.0	10.0		WR
	100	HIRA	44	NS	2100.0E	0114.0	700.0D	400.0	60.0		WR
	245	LEAR	44	NS	2244.0E	2252.0	697.0D	220.0			QL=4 ST=2 TYP=1
	410	LEAR	44	NS	2245.0E	0053.0	171.0D	200.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0015.0E	0015.0	2.0D	93.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0015.0E	0016.0	2.0D	65.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0015.0E	0016.0	2.0D	41.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0015.0E	0016.0	2.0D	38.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0015.0E	0016.0	2.0D	61.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0015.0E	0024.0	10.0D	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0024.0E	0024.0	U	120.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0132.0E	0133.0	1.0D	82.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0141.0E	0141.0	U	230.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0141.0E	0141.0	U	320.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0145.0E	0146.0	1.0D	150.0			QL=4 ST=2 TYP=3
	1415	LEAR	49	GB	0149.0E	0154.0	7.0D	600.0			QL=4 ST=2 TYP=7
	610	LEAR	4	S/F	0151.0E	0154.0	5.0D	44.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0201.0E	0202.0	1.0D	180.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0201.0E	0202.0	1.0D	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0201.0E	0202.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0201.0E	0202.0	1.0D	180.0			QL=2 ST=2 TYP=3
	2840	PEKG	3	S	0201.6	0202.4	2.8	15.0			
	4995	PALE	8	S	0216.0E	0217.0	1.0D	38.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0216.0E	0217.0	1.0D	40.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0354.0E	0354.0	U	110.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0405.0E	0406.0	1.0D	300.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0406.0E	0406.0	U	270.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0408.0E	0408.0	U	52.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0408.0E	0408.0	U	200.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0409.0E	0409.0	U	52.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0439.0U	1137.5	424.7D	23.0			
	5900	KISV	23	GRF	0453.0	0530.9	84.3	14.0			
	9300	KISV	23	GRF	0453.2	0504.0	83.0	23.0			
	5900	KISV	4	S/F	0454.0	0454.5	6.3	34.0			
	9100	GORK	3	S	0454.1	0454.4	0.9	24.0			

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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	5900	KISV	2	S/F	0502.0	0503.9	9.0	17.0			
	9100	GORK	2	S/F	0502.4	0504.0	4.8	13.0			
	100	GORK	4	S/F	0528.7	0530.8	3.9	770.0			
	245	SVTO	8	S	0530.0E	0530.0	1.0D	200.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0530.0E	0530.0	U	120.0			QL=2 ST=2 TYP=3
	500	HIRA	42	SER	0530.0	0530.5	25.0	340.0			0
	200	GORK	4	S/F	0530.4	0530.8	0.6	520.0			
	9100	GORK	46	C	0537.4	0540.0	10.1	18.0			
	9100	GORK	46	C	0537.4	0543.5		10.0			
	950	GORK	20	GRF	0537.7	0540.4	10.9	17.0			
	650	GORK	4	S/F	0537.7	0539.8	7.6	65.0			
	2950	GORK	46	C	0537.8	0543.0		9.5			
	5900	KISV	46	C	0537.8	0540.0	9.5	34.0			
	2950	GORK	46	C	0537.8	0540.1	8.3	20.0			
	5900	KISV	46	C	0537.8	0539.3		33.0			
	5900	KISV	46	C	0537.8	0543.5		20.0			
	9300	KISV	45	C	0538.5	0540.0	15.0	33.0			
	2840	PEKG	45	C	0538.5	0540.4	6.5	26.7			
	2850	CRIM	7	C	0539.0	0540.0	2.8	22.0	7.0		
	610	LEAR	8	S	0539.0E	0539.0	1.0D	95.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0539.0E	0540.0	1.0D	30.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0539.0E	0540.0	1.0D	30.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0539.0E	0540.0	1.0D	24.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	0539.0E	0539.0	1.0D	94.0			QL=2 ST=2 TYP=3
	2850	CRIM	7	C	0539.0	0543.5	7.0	12.0			
	2850	CRIM	40	F	0600.5	0602.5	3.0	19.7	5.0		
	245	SVTO	8	S	0652.0E	0653.0	2.0D	130.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0653.0E	0653.0	U	120.0			QL=2 ST=2 TYP=3
	2950	GORK	23	GRF	0734.8	0932.8	174.0	8.2			
	5900	KISV	2	S/F	0738.0	0740.7	4.6	4.0			
	9300	KISV	2	S/F	0744.0	0744.7	3.5	5.0			
	9300	KISV	2	S/F	0750.5	0755.0	8.5	7.0			
	430	KRAK	42	SER	0813.5	0818.2	40.5	60.0			
	410	SVTO	8	S	0818.0E	0819.0	1.0D	64.0			QL=4 ST=2 TYP=3
	600	HUMN	41	F	0818.5	0819.5	3.0	96.0			
	610	LEAR	49	GB	0819.0E	0819.0	U	520.0			QL=4 ST=2 TYP=6
	610	SVTO	8	S	0819.0E	0819.0	U	290.0			QL=4 ST=2 TYP=3
	650	GORK	41	F	0819.1	0819.5	3.6	215.0			
	5900	KISV	22	GRF	0819.1	0819.5	15.5	8.0			
	9300	KISV	22	GRF	0819.1	0823.5	16.1	8.0			
	650	GORK	41	F	0819.1	0820.7		46.0			
	810	KRAK	8	S	0819.2	0819.3	0.3	28.0			
	950	GORK	41	F	0819.3	0819.6	3.0	11.0			
	950	GORK	41	F	0819.3	0821.6		4.0			
	245	LEAR	8	S	0833.0E	0834.0	1.0D	120.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0834.0E	0835.0	1.0D	67.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0834.0	0835.3	13.0	1000.0			
	245	LEAR	8	S	0839.0E	0839.0	U	180.0			QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	0900.0	0901.1	2.1	4.0			
	950	GORK	1	S	0901.0	0901.8	1.0	2.0			
	650	GORK	1	S	0901.1	0901.8	1.0	2.0			
	9300	KISV	2	S/F	0901.5	0901.9	1.7	6.0			
	9500	POTS	42	SER	0925.0	0928.0	4.6	73.0			
	3000	POTS	21	GRF	0925.0	0944.0	65.0	12.0			
	5900	KISV	45	C	0925.1	0928.1	11.3	42.0			
	5900	KISV	45	C	0925.1	0925.9		23.0			
	9300	KISV	23	GRF	0925.2	0925.9	13.8	16.0			
	9100	GORK	46	C	0925.5	0928.1	11.1	125.0			
	9100	GORK	46	C	0925.5	0929.4		38.0			
	9500	POTS	21	GRF	0925.5	0931.5	14.5	16.0			
	15000	KISV	45	C	0926.6	0928.1	6.0	38.0			
	15000	KISV	45	C	0926.6	0929.5		14.0			
	2850	CRIM	1	S	0927.2	0928.0	1.4	4.0	1.0		
	9300	KISV	45	C	0927.2	0928.1	7.4	106.0			
	9300	KISV	45	C	0927.2	0929.8		34.0			
	3000	POTS	1	S	0927.5	0928.4	2.5	5.0			
	8800	SVTO	8	S	0928.0E	0928.0	U	85.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0955.0E	0956.0	1.0D	34.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0955.0E	0955.0	U	140.0			QL=2 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
17	245	SVTO	8	S	0955.0E	0955.0	U	160.0			QL=2 ST=2 TYP=3
	5900	KISV	21	GRF	1006.6	1013.3	16.0	7.0			
	808	ONDR	41	F	1010.0	1136.2	245.0	85.0			
	536	ONDR	42	SER	1010.0	1012.5	19.0	108.0			
	600	HUMN	41	F	1011.0	1018.0	17.0	42.0			
	650	GORK	41	F	1011.2	1024.0		19.0			
	650	GORK	41	F	1011.2	1018.6		84.0			
	650	GORK	41	F	1011.2	1012.6	18.0	20.0			
	410	LEAR	8	S	1012.0E	1013.0	1.0D	420.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1012.0E	1013.0	8.0D	430.0			QL=4 ST=3 TYP=3
	430	KRAK	42	SER	1012.0	1013.0U	17.5	220.0D			
	3013	IZMI	7	C	1012.4	1013.3	4.0	24.0	12.0		
	2950	GORK	46	C	1012.5	1013.2		34.0			
	2850	CRIM	1	S	1012.5	1013.4	4.0	37.0	10.0		
	1470	POTS	40	F	1012.5	1024.6	15.9	12.0			
	2950	GORK	46	C	1012.5	1012.7	2.6	20.0			
	950	GORK	22	GRF	1012.6	1020.3	16.6	4.0			
	3000	POTS	4	S/F	1012.7U	1013.5U	1.3U	32.0			
	245	LEAR	49	GB	1013.0E	1013.0	1.0D	1500.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1013.0E	1013.0	1.0D	1900.0			QL=2 ST=3 TYP=6
	234	POTS	42	SER	1013.2	1026.4	24.8	1000.0			
	810	KRAK	42	SER	1014.5	1014.7	6.5	48.0			
	410	SVTO	8	S	1015.0E	1016.0	1.0D	52.0			QL=4 ST=2 TYP=5
	245	LEAR	8	S	1018.0E	1018.0	U	310.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	1018.0E	1026.0	8.0D	1100.0			QL=2 ST=2 TYP=6
	410	SVTO	49	GB	1018.0E	1022.0	6.0D	910.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	1019.0E	1019.0	U	83.0			QL=4 ST=2 TYP=3
	100	GORK	4	S/F	1023.3	1024.3	1.8	35.0D			
	204	IZMI	41	F	1025.5	1026.2	12.0	2000.0			
	200	GORK	41	F	1025.6	1037.0		350.0			
	200	GORK	41	F	1025.6	1026.3	11.9	860.0			
	536	ONDR	42	SER	1120.0	1135.8	20.5	61.0			
	5900	KISV	23	GRF	1120.1	1128.5	30.3	13.0			
	430	KRAK	42	SER	1120.5	1128.2U	19.0	210.0D			
	200	GORK	4	S/F	1121.6	1122.9	1.7	160.0			
	100	GORK	4	S/F	1121.8	1123.0	1.4	390.0			
	3000	POTS	42	SER	1122.5U	1135.6U	35.0U	23.0			
	2950	GORK	21	GRF	1124.1	1128.3	18.2D	9.4			
	9500	POTS	20	GRF	1125.0	1134.0	9.0	11.0			
	410	SGMR	49	GB	1125.0E	1128.0	5.0D	1500.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1125.0E	1128.0	7.0D	2600.0			QL=4 ST=2 TYP=6
	3013	IZMI	23	GRF	1125.0	1136.0	30.0	30.0	10.0		
	9300	KISV	22	GRF	1125.4	1134.1	25.3	9.0			
	950	GORK	41	F	1128.1	1128.5	4.4D	2.0			
	650	GORK	41	F	1128.1	1128.6	4.4D	7.0			
	950	GORK	41	F	1128.1	1131.7		10.0			
	650	GORK	41	F	1128.1	1131.8		35.0			
	810	KRAK	8	S	1131.5	1131.6	0.3	29.0			
	5900	KISV	2	S/F	1133.0	1137.1	8.8	12.0			
	1470	POTS	42	SER	1133.0	1137.2	25.0	67.0			
	600	HUMN	2	S/F	1135.0	1137.0	5.0	30.0	12.0		
	810	KRAK	4	S/F	1135.0	1136.0	4.7	88.0	29.0		
	245	SGMR	8	S	1135.0E	1136.0	2.0D	170.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1135.0E	1136.0	4.0D	85.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1135.0E	1136.0	4.0D	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1135.0E	1136.0	2.0D	180.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1135.0E	1136.0	1.0D	110.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1135.0E	1137.0	2.0D	70.0			QL=4 ST=2 TYP=3
	610	SVTO	4	S/F	1135.0E	1137.0	3.0D	74.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	1135.1	1138.8		15.0			
	2950	GORK	46	C	1135.1	1135.8	3.7	20.0			
	260	ONDR	4	S/F	1136.0	1136.7	4.0	376.0			
	1415	SGMR	8	S	1137.0E	1137.0	U	65.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1137.0E	1137.0	U	26.0			QL=4 ST=2 TYP=3
	1470	POTS	3	S	1137.4	1137.7	1.0	7.0			
	9500	POTS	4	S/F	1142.0	1142.6	3.0	133.0			
	3000	POTS	4	S/F	1142.5E	1143.7U	2.5D	49.0			
	810	KRAK	1	S	1151.0	1152.5	3.0	9.0	4.0		
	430	KRAK	42	SER	1151.7	1217.0U	37.0	210.0D			

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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	5900	KISV	2	S/F	1159.0	1202.5	4.4	13.0			
	410	SVTO	8	S	1201.0E	1202.0	1.0D	220.0			QL=4 ST=3 TYP=3
	9300	KISV	2	S/F	1202.1	1202.6	3.8	8.0			
	245	SGMR	8	S	1203.0E	1203.0	U	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1203.0E	1203.0	U	64.0			QL=4 ST=3 TYP=3
	410	SVTO	49	GB	1213.0E	1216.0	10.0D	750.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1214.0E	1216.0	9.0D	580.0			QL=4 ST=2 TYP=6
	5900	KISV	2	S/F	1214.8	1216.5	3.8	8.0			
	536	ONDR	4	S/F	1215.0	1217.0	3.0	116.0			
	3000	POTS	1	S	1215.3	1216.5	2.7	6.0			
	9300	KISV	2	S/F	1215.6	1216.5	1.8	4.0			
	113	POTS	42	SER	1237.2	1240.6	19.8	3500.0D			
	30	POTS	41	F	1237.5	1238.7	15.2	10000.0U			
	9500	POTS	29	PBI	1238.7	1240.8	26.3	72.0			
	234	POTS	42	SER	1239.8	1255.3	15.7	4500.0			
	1470	POTS	29	PBI	1240.4	1242.8	24.8	40.0			
	3000	POTS	42	SER	1240.5E	1244.0U	22.5D	33.0			
	9500	POTS	20	GRF	1317.5	1323.3	29.5	10.0			
	430	KRAK	42	SER	1321.5	1325.0	12.5	210.0D			
	410	SGMR	4	S/F	1323.0E	1325.0	3.0D	220.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1323.0E	1325.0	4.0D	380.0			QL=4 ST=3 TYP=3
	127	TORN	7	C	1323.6	1324.2	1.0	2500.0	1200.0		
	245	SGMR	8	S	1324.0E	1324.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1324.0E	1324.0	U	120.0			QL=4 ST=3 TYP=3
	600	HUMN	8	S	1331.0	1331.1	0.2	42.0	20.0		
	536	ONDR	8	S	1332.5	1333.0	0.7	1132.0U			
	9400	HUAN	23	GRF	1332.5	1421.0	72.2	26.0	14.2		
	245	SGMR	8	S	1333.0E	1333.0	U	82.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1333.0E	1333.0	2.0D	80.0			QL=4 ST=2 TYP=3
	3000	POTS	1	S	1337.0	1338.3U	3.0	5.0			
	536	ONDR	46	C	1408.7	1412.5	15.0	1167.0U			
	410	SGMR	49	GB	1409.0E	1412.0	9.0D	3300.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1409.0E	1412.0	9.0D	3800.0			QL=4 ST=2 TYP=6
	3000	POTS	42	SER	1409.0U	1411.5U	31.0U	29.0			
	260	ONDR	4	S/F	1409.0	1410.8	5.0	401.0			
	9500	CUBA	4	S/F	1409.4	1411.9	8.6	181.0	34.0		
	8800	SGMR	4	S/F	1410.0E	1411.0	4.0D	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1410.0E	1412.0	4.0D	110.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1410.0E	1412.0	4.0D	910.0			QL=4 ST=2 TYP=6
	8800	SVTO	4	S/F	1410.0E	1411.0	7.0D	190.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1410.0E	1410.0	2.0D	430.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1410.0E	1411.0	9.0D	120.0			QL=2 ST=2 TYP=3
	610	SVTO	49	GB	1410.0E	1412.0	5.0D	670.0			QL=4 ST=2 TYP=6
	9500	POTS	49	GB	1410.0	1411.5	25.0D	183.0			
	113	POTS	4	S/F	1410.0	1412.6	3.6	1400.0			
	40	POTS	4	S/F	1410.0	1410.6	15.0U	U			
	234	POTS	42	SER	1410.0	1418.8	11.7	250.0			
	9400	HUAN	45	C	1410.2	1411.1	8.3	191.7	82.4		
	9400	HUAN	45	C	1410.2	1411.6		193.5			
	600	HUMN	4	S/F	1410.3	1412.0	5.5	280.0	80.0		
	127	TORN	4	S/F	1410.4	1411.0	2.6	1600.0	560.0		
	33	UPIC	46	C	1410.4	1411.7	2.6				
	1470	POTS	4	S/F	1410.5	1411.5	4.7	13.0			
	15400	SGMR	4	S/F	1411.0E	1411.0	9.0D	150.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1411.0E	1411.0	1.0D	27.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1411.0E	1411.0	3.0D	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1417.0E	1419.0	2.0D	310.0			QL=4 ST=2 TYP=3
	9500	CUBA	29	PBI	1418.0		33.0	32.0	16.0		
	410	SGMR	49	GB	1420.0E	1421.0	4.0D	950.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1435.0E	1435.0	U	760.0			QL=4 ST=2 TYP=6
	600	HUMN	2	S/F	1505.5	1505.7	0.6	25.0	10.0		
	245	SGMR	8	S	1526.0E	1527.0	1.0D	190.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1531.0E	1535.0	6.0D	260.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1531.0E	1535.0	7.0D	430.0			QL=4 ST=2 TYP=5
	15000	CUBA	23	GRF	1532.7	1536.2	10.5	35.0	17.0		25R
	9400	HUAN	4	S/F	1533.7	1535.7	6.2	35.4	16.8		
	8800	SGMR	8	S	1536.0E	1536.0	U	28.0			QL=4 ST=2 TYP=3
	9400	HUAN	20	GRF	1547.4	1600.7	31.1	9.3	4.6		
	9500	CUBA	2	S/F	1554.6	1556.2	4.7	28.0	14.0		

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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	610	SGMR	8	S	1558.0E	1559.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1558.0E	1559.0	1.0D	190.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1617.0E	1617.0	3.0D	220.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1618.0E	1618.0	U	110.0			QL=2 ST=2 TYP=3
	410	SGMR	4	S/F	1645.0E	1646.0	3.0D	110.0			QL=4 ST=2 TYP=3
	9400	HUAN	23	GRF	1721.8	1802.0	82.4	37.2	19.2		
	245	PALE	8	S	1732.0E	1732.0	U	350.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1732.0E	1732.0	U	430.0			QL=4 ST=2 TYP=3
	9500	CUBA	47	GB	1740.6	1753.3		229.0			
	9500	CUBA	47	GB	1740.6	1748.6	31.8	802.0			
	245	SGMR	8	S	1741.0E	1741.0	U	180.0			QL=4 ST=2 TYP=3
	15000	CUBA	47	GB	1741.0	1753.2		218.0			19R
	15000	CUBA	47	GB	1741.0	1748.4	23.0	2231.0			23R
	610	SGMR	8	S	1742.0E	1742.0	U	88.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	1742.0E	1748.0	20.0D	700.0			QL=4 ST=2 TYP=7
	280	CUBA	48	C	1742.3	1750.0	11.4	11648.0			
	235	CUBA	48	C	1742.3	1750.0	11.4	7945.0			
	245	SGMR	8	S	1743.0E	1743.0	U	280.0			QL=2 ST=2 TYP=3
	4995	PALE	4	S/F	1745.0E	1748.0	16.0D	390.0			QL=4 ST=2 TYP=5
	410	PALE	49	GB	1745.0E	1758.0	16.0D	500.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	1745.0E	1748.0	17.0D	260.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1745.0E	1749.0	13.0D	1100.0			QL=4 ST=2 TYP=7
	9400	HUAN	45	C	1745.2	1752.9U	14.9	260.5	126.4		
	2800	OTTA	4	S/F	1745.3	1748.6	19.1	245.9	50.0		
	245	PALE	49	GB	1746.0E	1749.0	4.0D	920.0			QL=2 ST=2 TYP=6
	15400	PALE	49	GB	1746.0E	1748.0	13.0D	1400.0			QL=4 ST=2 TYP=7
	2695	PALE	4	S/F	1746.0E	1748.0	16.0D	230.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1746.0E	1758.0	13.0D	310.0			QL=4 ST=2 TYP=3
	15400	SGMR	49	GB	1746.0E	1748.0	11.0D	1600.0			QL=4 ST=2 TYP=7
	610	SGMR	49	GB	1746.0E	1758.0	12.0D	400.0			QL=4 ST=2 TYP=7
	8800	SGMR	49	GB	1746.0E	1748.0	12.0D	840.0			QL=4 ST=2 TYP=7
	4995	SGMR	49	GB	1746.0E	1748.0	12.0D	360.0			QL=4 ST=2 TYP=7
	2695	SGMR	49	GB	1746.0E	1748.0	12.0D	230.0			QL=4 ST=2 TYP=7
	1415	SGMR	49	GB	1747.0E	1748.0	11.0D	240.0			QL=4 ST=2 TYP=7
	9400	HUAN	1	S	1807.1	1809.6	6.0	9.3	4.8		
	9400	HUAN	20	GRF	1913.7	1927.2	51.4	21.4	14.2		
	245	PALE	8	S	1933.0E	1933.0	1.0D	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1933.0E	1933.0	1.0D	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1948.0E	1948.0	U	85.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	2016.0	2058.0	144.0D	12.0			SUNSET
	410	SGMR	8	S	2022.0E	2022.0	U	57.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	2037.5	2040.6	6.7	18.6	7.3		
	9500	CUBA	2	S/F	2039.2	2040.5	5.8	19.0	9.0		
	15000	CUBA	1	S	2039.5	2040.7	3.1	16.0	8.0		17R
	245	PALE	8	S	2108.0E	2108.0	1.0D	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2108.0E	2109.0	1.0D	180.0			QL=4 ST=2 TYP=3
	9500	CUBA	47	GB	2121.0	2124.4	18.0	1304.0			
	2800	OTTA	47	GB	2122.2	2124.6	16.9	590.0	118.0		
	9400	HUAN	45	C	2122.4	2128.4U	13.1	221.4	145.6		
	15000	CUBA	47	GB	2122.6E	2154.5	31.9D	4181.0			4R
	245	PALE	49	GB	2123.0E	2125.0	6.0D	5400.0			QL=2 ST=2 TYP=6
	410	PALE	49	GB	2123.0E	2125.0	6.0D	27000.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	2123.0E	2125.0	6.0D	28000.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	2123.0E	2124.0	6.0D	740.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	2123.0E	2124.0	6.0D	920.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	2123.0E	2124.0	6.0D	410.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	2123.0E	2124.0	7.0D	1500.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	2123.0E	2124.0	7.0D	750.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	2123.0E	2124.0	6.0D	860.0			QL=4 ST=2 TYP=6
	1415	SGMR	4	S/F	2123.0E	2124.0	7.0D	380.0			QL=4 ST=2 TYP=3
	15400	SGMR	49	GB	2123.0E	2124.0	7.0D	2600.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	2123.0E	2124.0	10.0D	1400.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	2123.0E	2124.0	10.0D	2500.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	2123.0E	2125.0	10.0D	29000.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	2123.0E	2125.0	10.0D	29000.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2123.0E	2125.0	10.0D	6700.0			QL=2 ST=2 TYP=6
	100	HIRA	42	SER	2123.6	2125.0	10.0	1000.0D			
	280	CUBA	49	GB	2123.6	2124.8	10.3	72931.0D			
	235	CUBA	49	GB	2123.6	2124.8	10.3	57017.0D			

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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	500	HIRA	48	C	2123.6	2124.9	36.0	60000.0	300.0		SL
	200	HIRA	42	SER	2123.8	2125.0	5.3	7000.0			WL
	610	PALE	4	S/F	2133.0E	2133.0	5.0D	360.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2133.0E	2135.0	4.0D	280.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2133.0E	2133.0	6.0D	480.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	2133.0E	2133.0	6.0D	500.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	2133.0E	2133.0	U	120.0			QL=2 ST=2 TYP=3
	410	SGMR	4	S/F	2140.0E	2142.0	4.0D	170.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2141.0E	2141.0	1.0D	310.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	2141.0E	2141.0	2.0D	130.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2141.0E	2141.0	2.0D	96.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	2141.0E	2141.0	5.0D	430.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	2141.0E	2143.0	5.0D	120.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	2141.2	2141.5	1.5	27.0	13.0		55R
	410	PALE	8	S	2148.0E	2149.0	1.0D	170.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2148.0E	2153.0	6.0D	350.0			QL=4 ST=2 TYP=5
	245	PALE	49	GB	2149.0E	2149.0	U	2400.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	2149.0E	2149.0	U	3000.0			QL=2 ST=2 TYP=6
	410	PALE	49	GB	2152.0E	2153.0	2.0D	520.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	2152.0E	2152.0	1.0D	68.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2152.0E	2152.0	2.0D	92.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2152.8	2153.3	2.4	46.6	14.0		
	245	PALE	8	S	2153.0E	2153.0	U	210.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2153.0E	2153.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2204.0E	2204.0	1.0D	230.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	2204.0E	2205.0	1.0D	78.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2204.0E	2205.0	1.0D	210.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2204.0E	2205.0	1.0D	84.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	2217.0E	2230.0	18.0D	740.0			QL=4 ST=2 TYP=7
	410	SGMR	4	S/F	2223.0E	2232.0	11.0D	290.0			QL=4 ST=2 TYP=5
	245	PALE	8	S	2224.0E	2225.0	1.0D	220.0			QL=2 ST=2 TYP=3
	2695	LEAR	4	S/F	2315.0E	2325.0	10.0D	12.0			QL=2 ST=2 TYP=3
	8800	LEAR	4	S/F	2315.0E	2325.0	45.0D	43.0			QL=2 ST=1 TYP=3
	4995	LEAR	4	S/F	2316.0E	2325.0	9.0D	50.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	2316.0E	2317.0	2.0D	42.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	2316.0E	2317.0	2.0D	750.0			QL=2 ST=2 TYP=6
	610	LEAR	8	S	2316.0E	2317.0	2.0D	13.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2324.0E	2325.0	1.0D	20.0			QL=2 ST=2 TYP=3
18	100	GORK	44	NS	0428.0E		510.0D		5.0		
	200	GORK	44	NS	0428.0E		510.0D		5.0		
	245	SVTO	44	NS	0522.0E	0548.0	99.0D	170.0			QL=4 ST=2 TYP=1
	113	POTS	44	NS	0548.0E	0636.0	557.0D	200.0			
	234	POTS	44	NS	0550.0E	1115.0U	556.0D	90.0			
	204	IZMI	43	NS	0600.0		360.0	50.0			
	127	TORN	44	NS	0630.0E		510.0D		60.0		V=1
	33	UPIC	43	NS	0745.5		38.0				
	245	SVTO	44	NS	0809.0E	1331.0U	508.0D	330.0			QL=2 ST=2 TYP=1
	260	ONDR	44	NS	0850.0E	0928.5	350.0D	295.0			
	430	KRAK	44	NS	0856.0E	1257.0U	303.5D	220.0D	20.0		
	245	SGMR	44	NS	1111.0E	1220.0	560.0D	480.0			QL=2 ST=2 TYP=1
	410	SVTO	44	NS	1305.0E	1335.0U	212.0D	150.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1315.0E		511.0D		56.0		
	235	CUBA	44	NS	1315.0E		511.0D		49.0		
	245	PALE	44	NS	1654.0E	1858.0	124.0D	200.0			QL=4 ST=3 TYP=1
	100	HIRA	44	NS	2100.0E	2118.0	700.0D	130.0	50.0		WL
	410	LEAR	49	GB	0006.0E	0020.0	29.0D	1600.0			QL=2 ST=3 TYP=7
	410	PALE	49	GB	0011.0E	0020.0	45.0D	1400.0			QL=4 ST=2 TYP=7
	245	LEAR	8	S	0023.0E	0024.0	1.0D	480.0			QL=2 ST=3 TYP=3
	245	PALE	8	S	0023.0E	0024.0	1.0D	370.0			QL=2 ST=2 TYP=3
	500	HIRA	45	C	0023.2	0028.5	28.0	40.0	15.0		WL
	410	LEAR	49	GB	0108.0E	0111.0	13.0D	540.0			QL=2 ST=3 TYP=6
	410	PALE	4	S/F	0108.0E	0112.0	26.0D	470.0			QL=4 ST=2 TYP=5
	410	LEAR	4	S/F	0138.0E	0140.0	3.0D	420.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0138.0E	0140.0	3.0D	340.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0147.5	0151.0	23.0	140.0			WL
	410	PALE	4	S/F	0149.0E	0153.0	10.0D	220.0			QL=4 ST=2 TYP=5
	410	LEAR	4	S/F	0150.0E	0153.0	8.0D	310.0			QL=2 ST=2 TYP=5
	2840	PEKG	5	S	0151.0	0153.3	6.0	45.7			

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18	2695	LEAR	8	S	0152.0E	0153.0	1.0D	36.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0152.0E	0153.0	1.0D	41.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	0152.0E	0153.0	1.0D	56.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0152.0E	0153.0	1.0D	48.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0152.5	0153.0	1.2	29.0			R,80,35GHz:0
	2840	PEKG	1	S	0217.8	0218.0	0.6	9.6			
	2840	PEKG	45	C	0231.0	0231.6	2.0	7.5			
	610	LEAR	8	S	0258.0E	0258.0	1.0D	98.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0258.0E	0258.0	U	80.0			QL=4 ST=2 TYP=3
	5900	KISV	22	GRF	0459.8	0516.7		7.0			
	5900	KISV	22	GRF	0459.8	0523.9	29.3	10.0			
	9300	KISV	21	GRF	0501.7	0516.7	31.8	10.0			
	410	LEAR	8	S	0518.0E	0519.0	1.0D	94.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0538.0E	0538.0	U	320.0			QL=2 ST=2 TYP=3
	5900	KISV	21	GRF	0556.2	0611.7	31.9	14.0			
	9300	KISV	21	GRF	0558.9	0611.4	31.8	11.0			
	9100	GORK	23	GRF	0607.1	1304.5U	417.4D	40.0			
	100	GORK	41	F	0608.8	0618.1		290.0			
	100	GORK	41	F	0608.8	0610.6	10.2	1300.0			
	5900	KISV	22	GRF	0642.2	0643.4	13.0	5.0			
	5900	KISV	22	GRF	0642.2	0651.8		4.0			
	2950	GORK	21	GRF	0715.8	1150.0D	349.0	18.6			
	5900	KISV	2	S/F	0741.0	0743.9	6.7	6.0			
	9300	KISV	2	S/F	0741.2	0742.5	4.6	5.0			
	15000	KISV	2	S/F	0743.4	0743.9	3.3	6.0			
	9300	KISV	2	S/F	0750.2	0754.9	6.4	16.0			
	15000	KISV	2	S/F	0750.8	0752.0	3.4	10.0			
	5900	KISV	45	C	0751.0	0754.2		7.0			
	5900	KISV	45	C	0751.0	0751.9	5.3	18.0			
	9500	POTS	4	S/F	0751.5	0752.0	1.3	11.0			
	650	GORK	2	S/F	0751.5	0751.6	0.8	9.0			
	9100	GORK	1	S	0751.6	0752.1	1.0	12.0			
	950	GORK	1	S	0751.6	0751.8	1.0	2.0			
	2950	GORK	1	S	0803.7	0804.5	2.1	9.3			
	245	LEAR	8	S	0804.0E	0804.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0804.0E	0804.0	1.0D	150.0			QL=4 ST=2 TYP=3
	650	GORK	4	S/F	0804.4	0804.6	0.6	15.0			
	950	GORK	4	S/F	0804.4	0804.6	1.8	19.0			
	9300	KISV	21	GRF	0814.5	0827.1	15.7	8.0			
	5900	KISV	2	S/F	0826.2	0827.1	3.3	7.0			
	536	ONDR	40	F	0850.0	1253.1	275.0	242.0			
	3000	POTS	21	GRF	0900.0	0956.5	127.0U	17.0			
	1470	POTS	21	GRF	0901.0	1003.0	121.0D	7.0			
	5900	KISV	2	S/F	0903.3	0904.6	3.0	10.0			
	9300	KISV	1	S	0904.0	0905.4	2.0	10.0			
	9100	GORK	1	S	0904.5	0904.7	1.0	12.0			
	9500	POTS	21	GRF	0906.5	1003.0	114.0	18.0			
	5900	KISV	4	S/F	0918.0	0921.6	16.0	28.0			
	9300	KISV	2	S/F	0919.0	0922.1	3.0	17.0			
	9100	GORK	2	S/F	0920.8	0921.5	1.5	13.0			
	9500	POTS	4	S/F	0921.0	0921.5	1.8	10.0			
	2950	GORK	1	S	0921.1	0921.5	0.8	3.1			
	8800	LEAR	4	S/F	0933.0E	0953.0	22.0D	83.0			QL=2 ST=2 TYP=5
	808	ONDR	42	SER	0940.0	0942.5	224.0	350.0			
	810	KRAK	42	SER	0940.8	0942.1	2.0	245.0			
	950	GORK	41	F	0941.0	0941.4	2.5	102.0			
	950	GORK	41	F	0941.0	0942.4		115.0			
	650	GORK	40	F	0941.9	0943.1	1.8	20.0			
	9100	GORK	46	C	0942.0	0953.0		88.0			
	1415	LEAR	8	S	0942.0E	0942.0	U	36.0			QL=4 ST=2 TYP=3
	3013	IZMI	42	SER	0942.0	0953.0	23.0	38.0			
	1470	POTS	4	S/F	0942.0	0942.5	2.0	37.0			
	5900	KISV	2	S/F	0942.0	0942.6	9.0	13.0			
	9100	GORK	46	C	0942.0	0942.6	12.4	25.0			
	3000	POTS	4	S/F	0942.2	0942.5	1.0	10.0			
	9500	POTS	4	S/F	0942.2	0942.5	2.8	19.0			
	2950	GORK	1	S	0942.2	0942.6	1.8	10.0			
	15000	KISV	45	C	0942.3	0943.4		29.0			
	15000	KISV	45	C	0942.3	0942.7	4.0	31.0			

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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
18	9300	KISV	2	S/F	0942.5	0943.2	6.0	23.0			
	2850	CRIM	1	S	0943.1	0943.5	1.0	11.0	3.0		
	9500	POTS	4	S/F	0951.6	0953.0	2.9	58.0			
	5900	KISV	4	S/F	0951.6	0953.2	16.0	102.0			
	1470	POTS	4	S/F	0951.8	0953.0	2.2	12.0			
	2850	CRIM	1	S	0952.0	0953.0	1.5	30.0	7.0		
	650	GORK	1	S	0952.0	0953.0	1.4	4.0			
	950	GORK	1	S	0952.0	0953.0	1.6	8.0			
	2695	LEAR	8	S	0952.0E	0953.0	1.0D	29.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0952.0E	0953.0	1.0D	88.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0952.0E	0953.0	1.0D	53.0			QL=2 ST=2 TYP=3
	4995	SVTO	8	S	0952.0E	0953.0	1.0D	99.0			QL=2 ST=2 TYP=3
	3000	POTS	4	S/F	0952.0U	0953.0U	1.8U	35.0			
	15000	KISV	46	C	0952.0	0952.3		27.0			
	9300	KISV	4	S/F	0952.0	0953.6	3.0	141.0			
	15000	KISV	46	C	0952.0	0952.6	2.0	35.0			
	15000	KISV	46	C	0952.0	0952.8		34.0			
	2950	GORK	4	S/F	0952.1	0953.0	1.4	66.0			
	3000	POTS	4	S/F	1001.0U	1002.5U	3.5U	8.0			
	2850	CRIM	1	S	1001.8	1002.4	2.2	6.0	2.0		
	2950	GORK	1	S	1001.8	1002.5	3.7	7.5			
	1470	POTS	4	S/F	1011.0	1011.5	1.0	7.0			
	9300	KISV	4	S/F	1024.5	1028.5	10.0	85.0			
	5900	KISV	4	S/F	1025.0	1028.5	9.0	56.0			
	9500	POTS	4	S/F	1026.0	1028.4	5.5	65.0			
	9100	GORK	2	S/F	1026.6	1028.3	3.8	80.0			
	8800	SVTO	8	S	1027.0E	1028.0	2.0D	74.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1027.0E	1027.0	1.0D	37.0			QL=2 ST=2 TYP=3
	3000	POTS	4	S/F	1027.0U	1028.0U	3.0U	22.0			
	3013	IZMI	5	S	1027.4	1028.5	4.0	15.0			
	2850	CRIM	7	C	1027.5	1029.1		14.0			
	1470	POTS	4	S/F	1027.5	1028.4	2.5	16.0			
	2850	CRIM	7	C	1027.5	1028.5		32.0			
	15000	KISV	3	S	1027.5	1027.7	3.0	41.0			
	2850	CRIM	7	C	1027.5	1027.9	3.0	14.0	10.0		
	2950	GORK	4	S/F	1027.6	1028.3	2.7	22.0			
	950	GORK	46	C	1027.7	1029.0		60.0			
	810	KRAK	2	S/F	1027.7	1028.0	1.5	50.0	2.0		
	950	GORK	46	C	1027.7	1028.4	1.8	430.0			
	4995	SVTO	8	S	1028.0E	1028.0	U	41.0			QL=2 ST=2 TYP=3
	650	GORK	4	S/F	1028.1	1028.4	0.7	70.0			
	5900	KISV	3	S	1038.5	1040.8	7.0	45.0			
	9300	KISV	1	S	1040.0	1040.7	2.5	20.0			
	9500	POTS	4	S/F	1040.0	1040.7	1.2	13.0			
	9100	GORK	1	S	1040.5	1040.8	0.8	17.0			
	204	IZMI	25	R	1120.0	1130.0	42.0	730.0			
	9300	KISV	2	S/F	1141.4	1141.8	3.0	12.0			
	5900	KISV	2	S/F	1141.4	1141.9	5.0	17.0			
	5900	KISV	4	S/F	1154.0	1156.2	10.0	100.0			
	8800	SGMR	8	S	1155.0E	1156.0	2.0D	110.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1155.0E	1156.0	1.0D	44.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1155.0E	1156.0	1.0D	53.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1155.0E	1156.0	2.0D	89.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1155.0E	1156.0	2.0D	90.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1155.0E	1156.0	1.0D	83.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1155.0E	1156.0	2.0D	85.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1155.0E	1156.0	725.0D	52.0			QL=4 ST=1 TYP=3
	3013	IZMI	7	C	1155.4	1156.0	5.0	34.0	12.0		
	1470	POTS	29	PBI	1155.5	1157.0	45.5	23.0			
	3000	POTS	4	S/F	1155.5E	1156.0U	4.4D	44.0			
	9300	KISV	4	S/F	1155.5	1155.9	3.0	98.0			
	9100	GORK	2	S/F	1155.6	1156.0	2.2	110.0			
	9500	POTS	4	S/F	1155.6	1156.0	2.9	76.0			
	2950	GORK	4	S/F	1155.6	1156.1	3.7	40.0			
	2850	CRIM	3	S	1155.6	1156.2	4.0	46.0	12.0		
	15000	KISV	4	S/F	1155.9	1156.0	8.0	78.0			
	200	GORK	4	S/F	1156.0	1156.5	1.1	260.0			
	100	GORK	46	C	1156.3	1156.5	1.4	280.0			
	100	GORK	46	C	1156.3	1156.7		180.0			

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
18	810	KRAK	8	S	1156.9	1157.0	0.4	73.0			
	245	SVTO	8	S	1219.0E	1219.0	1.0D	460.0			QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	1226.2	1227.2	3.0	8.0			
	15000	KISV	2	S/F	1245.5	1247.1	4.0	16.0			
	9500	CUBA	46	C	1246.5	1256.7	17.5	114.0	32.0		
	9100	GORK	4	S/F	1251.7	1256.5	12.0	125.0			
	15000	CUBA	4	S/F	1252.4	1256.5	8.2	75.0	37.0		12R
	9300	KISV	4	S/F	1252.5	1256.5	11.0	117.0			
	610	SGMR	49	GB	1253.0E	1256.0	4.0D	3400.0			QL=4 ST=2 TYP=7
	8800	SGMR	4	S/F	1253.0E	1256.0	6.0D	120.0			QL=4 ST=2 TYP=3
	610	SVTO	49	GB	1253.0E	1256.0	4.0D	2500.0			QL=4 ST=2 TYP=7
	3000	POTS	4	S/F	1253.0E	1255.0U	7.0D	U			
	15000	KISV	4	S/F	1253.0	1256.4	12.0	76.0			
	2850	CRIM	4	S/F	1253.2	1256.3	7.0	118.0	30.0		
	650	GORK	46	C	1253.3	1254.2	6.7D	1360.0			
	9500	POTS	42	SER	1253.3	1256.5	19.2	99.0			
	650	GORK	46	C	1253.3	1256.6		1030.0			
	2950	GORK	4	S/F	1253.5	1256.5	6.6	102.0			
	5900	KISV	4	S/F	1253.5	1256.5	11.0	135.0			
	600	HUMN	4	S/F	1253.6	1256.8	8.2	485.0	59.0		
	950	GORK	46	C	1253.8	1255.4	6.2D	46.0			
	810	KRAK	46	C	1253.8	1255.5U	6.5	240.0D	17.0		
	950	GORK	46	C	1253.8	1256.6		42.0			
	2695	SGMR	4	S/F	1254.0E	1256.0	4.0D	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1254.0E	1256.0	6.0D	100.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1254.0E	1256.0	4.0D	130.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1254.0E	1256.0	3.0D	53.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1254.0E	1256.0	4.0D	120.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1254.0E	1256.0	4.0D	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1254.0E	1256.0	4.0D	90.0			QL=2 ST=2 TYP=3
	808	ONDR	46	C	1254.0	1255.5	10.5	381.0			
	1470	POTS	4	S/F	1254.0E	1256.7	8.4D	61.0			
	1415	SGMR	8	S	1255.0E	1256.0	2.0D	56.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1255.0E	1256.0	3.0D	89.0			QL=2 ST=2 TYP=3
	9400	HUAN	4	S/F	1255.1	1256.6	6.1	68.9	32.4		
	410	SGMR	8	S	1256.0E	1256.0	2.0D	280.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1256.0E	1257.0	2.0D	1100.0			QL=2 ST=2 TYP=6
	234	POTS	4	S/F	1256.7	1257.1	2.8	1000.0			
	245	SVTO	49	GB	1257.0E	1257.0	U	1100.0			QL=2 ST=2 TYP=6
	410	SVTO	8	S	1258.0E	1258.0	2.0D	150.0			QL=4 ST=2 TYP=3
	9400	HUAN	3	S	1305.4	1307.1	5.1	58.8	19.6		
	15400	SVTO	8	S	1306.0E	1307.0	1.0D	100.0			QL=2 ST=2 TYP=3
	9300	KISV	3	S	1306.5	1307.1	1.5	61.0			
	9500	CUBA	1	S	1306.5	1307.2	5.5	57.0	28.0		
	15000	CUBA	1	S	1306.8	1307.1	1.1	103.0	51.0		5R
	8800	SVTO	8	S	1307.0E	1307.0	U	36.0			QL=2 ST=2 TYP=3
	15000	KISV	3	S	1307.0	1307.2	2.0	104.0			
	1470	POTS	4	S/F	1315.0	1319.6	15.5	120.0			
	3000	POTS	4	S/F	1316.0E	1319.9U	8.5D	39.0			
	2850	CRIM	1	S	1318.0	1319.8	3.0	33.6	10.0		
	2800	OTTA	3	S	1318.1	1319.8	6.1	37.8	8.0		
	610	SGMR	8	S	1319.0E	1319.0	1.0D	190.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1319.0E	1319.0	1.0D	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1319.0E	1319.0	2.0D	64.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1319.0E	1319.0	1.0D	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1319.0E	1319.0	2.0D	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1319.0E	1320.0	2.0D	53.0			QL=2 ST=2 TYP=3
	810	KRAK	4	S/F	1319.3	1319.7	1.1	114.0	71.0		
	9500	POTS	4	S/F	1319.4	1320.8	2.1	25.0			
	9500	CUBA	2	S/F	1319.5	1320.8	3.0	21.0	10.0		
	600	HUMN	2	S/F	1319.5	1319.8	5.6	73.0	8.0		
	9400	HUAN	2	S/F	1357.1	1358.3	3.7	12.2	4.6		
	9500	POTS	4	S/F	1358.0	1358.5	1.2	15.0			
	9500	CUBA	2	S/F	1358.2	1358.5	1.8	8.0	4.0		
	3000	POTS	3	S	1404.0U	1406.4U	6.0U	10.0			
	9400	HUAN	2	S/F	1432.5	1434.1	6.9	8.1	3.6		
	9400	HUAN	20	GRF	1541.1	1603.7	50.6	8.1	4.2		
	9400	HUAN	21	GRF	1705.0	1740.0	70.0	20.3	10.4		
	9400	HUAN	2	S/F	1715.2	1716.4	4.2	20.3	9.4		

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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
18	9500	CUBA	2	S/F	1715.8	1716.8	5.2	24.0	12.0		
	15000	CUBA	21	GRF	1716.0	1739.0	41.0	31.0	15.0		00L
	15000	CUBA	46	C	1717.4	1731.9	20.3	383.0	89.0		17R
	8800	SGMR	4	S/F	1727.0E	1731.0	9.0D	270.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	1727.0	1732.9	17.0	251.0	48.0		
	2800	OTTA	4	S/F	1727.3	1731.1	10.0	100.3	20.0		
	410	PALE	4	S/F	1728.0E	1730.0	3.0D	82.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1728.0E	1728.0	2.0D	110.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1728.0E	1731.0	8.0D	140.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1728.0E	1731.0	4.0D	100.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	1728.0	1732.0	10.5	277.6	114.8		
	8800	PALE	4	S/F	1729.0E	1731.0	4.0D	190.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1729.0E	1731.0	7.0D	320.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1729.0E	1731.0	2.0D	270.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1730.0E	1731.0	1.0D	210.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1730.0E	1731.0	2.0D	94.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1730.0E	1731.0	2.0D	49.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1731.0E	1731.0	U	61.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1745.0E	1745.0	1.0D	120.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1745.0E	1745.0	1.0D	150.0			QL=4 ST=2 TYP=3
	9400	HUAN	3	S	1752.0	1754.0	5.0	24.3	11.6		
	9500	CUBA	2	S/F	1754.0	1754.1	3.5	20.0	10.0		
	15000	CUBA	1	S	1754.0	1754.2	3.0	35.0	17.0		11R
	9500	CUBA	45	C	1926.2	1931.9	10.8	76.0	12.0		
	9400	HUAN	3	S	1930.5	1931.3	6.2	99.3	38.8		
	15400	SGMR	8	S	1931.0E	1931.0	1.0D	88.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1931.0E	1931.0	1.0D	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1936.0E	1936.0	U	250.0			QL=4 ST=2 TYP=3
	9400	HUAN	23	GRF	2010.5	2150.0	120.1	14.2	8.4		
	15000	CUBA	21	GRF	2022.0	2041.0	63.0	32.0	16.0		15R
	8800	PALE	49	GB	2035.0E	2036.0	5.0D	550.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	2035.0E	2036.0	4.0D	190.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	2035.2	2036.3U	8.0	273.4	116.8		
	9500	CUBA	46	C	2035.2	2036.8	10.8	288.0			
	15000	CUBA	4	S/F	2035.6	2036.4	3.7	499.0	294.0		14R
	15400	PALE	4	S/F	2036.0E	2036.0	3.0D	390.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2036.0E	2036.0	2.0D	410.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2036.0E	2036.0	2.0D	410.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2047.0E	2047.0	U	71.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2124.0E	2124.0	U	320.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	2136.2	2140.6	10.2	83.1	38.9		
	15400	SGMR	8	S	2137.0E	2138.0	1.0D	90.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2137.0E	2138.0	11.0D	130.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2138.0E	2140.0	8.0D	82.0			QL=4 ST=2 TYP=3
	15000	CUBA	45	C	2138.0	2138.4	9.6	163.0	22.0		36R
	9500	CUBA	46	C	2138.0	2140.5	16.0	71.0	21.0		
	4995	PALE	8	S	2139.0E	2140.0	2.0D	43.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2140.0E	2140.0	U	76.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2140.0E	2140.0	U	65.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2140.0E	2140.0	U	27.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2140.0E	2140.0	U	180.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2140.0E	2140.0	U	39.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2140.0	2140.1	6.0	2300.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	2154.0E	2155.0	2.0D	120.0			ML
	9400	HUAN	4	S/F	2156.4	2157.1	4.1	30.4	14.6		QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2157.0	2157.7	3.0	24.0	12.0		
	245	PALE	4	S/F	2259.0E	2300.0	3.0D	190.0			QL=4 ST=2 TYP=3
	200	HIRA	42	SER	2300.1	2304.2	6.0	5000.0			WR
	100	HIRA	42	SER	2301.0E	2314.0	13.0D	800.0			
	245	PALE	8	S	2302.0E	2303.0	1.0D	310.0			QL=4 ST=2 TYP=3
	500	HIRA	41	F	2302.5	2309.0	7.5	280.0			WR
	1415	LEAR	8	S	2303.0E	2303.0	1.0D	36.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	2303.0E	2303.0	1.0D	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2303.0E	2303.0	U	340.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2303.0E	2303.0	1.0D	74.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2303.0E	2303.0	1.0D	43.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	2305.0E	2305.0	1.0D	24.0			QL=2 ST=2 TYP=3
	2695	PALE	8	S	2305.0E	2305.0	1.0D	32.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	2306.0E	2307.0	3.0D	100.0			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

MARCH 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
18	610	LEAR	4	S/F	2307.0E	2309.0	4.0D	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2307.0E	2309.0	2.0D	73.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2309.0E	2309.0	U	94.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2309.0E	2309.0	U	75.0			QL=4 ST=2 TYP=3
19	204	IZMI	43	NS	0600.0		360.0	10.0			
	127	TORN	43	NS	0800.0		360.0		7.0		V=1
	260	ONDR	44	NS	0850.0E	1403.5	350.0D	457.0			
	235	CUBA	44	NS	1310.0E		530.0D		23.0		
	280	CUBA	44	NS	1310.0E		530.0D		33.0		
	245	SGMR	44	NS	1752.0E	1753.0	4.0D	150.0			QL=2 ST=3 TYP=1
	200	HIRA	44	NS	2100.0E	0746.0	700.0D	70.0	10.0		MR
	100	HIRA	44	NS	2100.0E	0754.0	700.0D	80.0	30.0		WL
	245	PALE	8	S	0056.0E	0056.0	U	420.0			QL=4 ST=2 TYP=3
	2840	PEKG	28	PRE	0100.0	0100.0	17.0	7.5			
	410	LEAR	8	S	0117.0E	0117.0	1.0D	38.0			QL=4 ST=3 TYP=3
	245	LEAR	49	GB	0117.0E	0117.0	1.0D	7600.0			QL=4 ST=3 TYP=6
	4995	PALE	4	S/F	0117.0E	0118.0	4.0D	390.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0117.0E	0118.0	4.0D	400.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0117.0E	0118.0	6.0D	180.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0117.0E	0119.0	11.0D	300.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0117.0	0119.0	11.0	205.3			
	610	LEAR	4	S/F	0117.0E	0119.0	1363.0D	110.0			QL=4 ST=1 TYP=3
	1415	LEAR	4	S/F	0117.0E	0119.0	1363.0D	400.0			QL=4 ST=1 TYP=3
	2695	PENT	3	S	0117.0	0119.1	11.1	154.8	46.0		
	500	HIRA	46	C	0117.2	0120.2	21.0	60.0	30.0		WL
	100	HIRA	42	SER	0117.3	0127.0	13.0	800.0			
	200	HIRA	46	C	0117.3	0117.3	2.6	2500.0	500.0		O
	35000	NOBE	1	S	0117.3	0118.7	4.0	50.0			O,80GHz:O
	17000	NOBE	3	S	0117.3	0118.7	7.0	136.0			O
	4995	LEAR	8	S	0118.0E	0118.0	1.0D	400.0			QL=2 ST=3 TYP=3
	8800	LEAR	8	S	0118.0E	0118.0	1.0D	340.0			QL=2 ST=3 TYP=3
	2695	LEAR	8	S	0118.0E	0118.0	1.0D	310.0			QL=2 ST=3 TYP=3
	1415	LEAR	8	S	0118.0E	0119.0	2.0D	460.0			QL=4 ST=3 TYP=3
	15400	PALE	8	S	0118.0E	0118.0	1.0D	140.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0118.0E	0121.0	6.0D	41.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	0118.0E	0119.0	11.0D	97.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0119.0E	0120.0	1.0D	140.0			QL=4 ST=3 TYP=3
	8800	LEAR	49	GB	0156.0E	0157.0	4.0D	1400.0			QL=2 ST=2 TYP=6
	410	LEAR	49	GB	0156.0E	0200.0	5.0D	30000.0			QL=2 ST=2 TYP=6
	2695	LEAR	49	GB	0156.0E	0157.0	8.0D	1500.0			QL=2 ST=2 TYP=6
	1415	PALE	49	GB	0156.0E	0158.0	7.0D	610.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	0156.0E	0157.0	4.0D	3600.0			QL=4 ST=2 TYP=7
	8800	PALE	49	GB	0156.0E	0157.0	5.0D	1800.0			QL=4 ST=2 TYP=7
	2695	PALE	49	GB	0156.0E	0157.0	6.0D	1200.0			QL=4 ST=2 TYP=7
	4995	PALE	49	GB	0156.0E	0157.0	5.0D	1600.0			QL=4 ST=2 TYP=7
	4995	LEAR	49	GB	0156.0E	0157.0	11.0D	1400.0			QL=2 ST=2 TYP=6
	1415	LEAR	49	GB	0156.0E	0157.0	10.0D	770.0			QL=2 ST=2 TYP=6
	17000	NOBE	29	PBI	0156.5	0200.4	8.0	27.0			R
	35000	NOBE	29	PBI	0156.5	0200.4	8.0	40.0			O
	17000	NOBE	45	C	0156.5	0157.7	3.9	3850.0			R
	80000	NOBE	45	C	0156.5	0157.7	4.0	1380.0			
	35000	NOBE	45	C	0156.5	0157.7	3.9	7170.0			R
	2840	PEKG	47	GB	0156.6	0158.0	5.4	1255.0			
	245	LEAR	49	GB	0157.0E	0201.0	6.0D	23000.0			QL=2 ST=2 TYP=6
	610	LEAR	49	GB	0157.0E	0158.0	5.0D	9100.0			QL=2 ST=2 TYP=6
	610	PALE	49	GB	0157.0E	0158.0	4.0D	7900.0			QL=4 ST=2 TYP=7
	245	PALE	49	GB	0157.0E	0201.0	6.0D	27000.0			QL=4 ST=2 TYP=7
	410	PALE	49	GB	0157.0E	0200.0	4.0D	35000.0			QL=4 ST=2 TYP=7
	500	HIRA	48	C	0157.0	0157.5	3.5	10000.0	1500.0		WL
	200	HIRA	48	C	0158.6	0200.0	3.3	51000.0	2000.0		WL
	2840	PEKG	29	PBI	0202.0	0202.0	13.0	26.5			
	410	LEAR	4	S/F	0210.0E	0217.0	8.0D	53.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0215.0E	0217.0	3.0D	180.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0217.0E	0217.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0334.0E	0335.0	2.0D	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0357.0E	0357.0	1.0D	55.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0357.0E	0357.0	U	26.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0359.0E	0359.0	U	110.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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
19	610	PALE	8	S	0359.0E	0359.0	U	82.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0421.0E	0421.0	U	75.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0433.0E	0854.0	507.0D	45.0			
	9300	KISV	20	GRF	0535.7	0540.7	11.9	11.0			
	2840	PEKG	5	S	0539.0	0539.8	3.0	16.0			
	5900	KISV	3	S	0539.3	0540.6	10.0	22.0			
	2950	GORK	1	S	0539.6	0540.6	2.8	12.0			
	2850	CRIM	1	S	0540.0	0540.5	1.5	20.0	7.0		
	9300	KISV	25	R	0556.0	0557.0		8.0			
	2950	GORK	21	GRF	0558.2	0807.3	452.0D	29.0			
	9300	KISV	47	GB	0609.5	0611.5	7.2	387.0			
	5900	KISV	47	GB	0610.0	0611.4	11.0	220.0			
	2840	PEKG	4	S/F	0610.0	0610.9	6.0	109.1			
	9100	GORK	4	S/F	0610.3	0611.4	4.7	390.0			
	15000	KISV	47	GB	0610.5	0611.5	6.0	481.0			
	4995	LEAR	8	S	0611.0E	0611.0	2.0D	130.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0611.0E	0611.0	2.0D	2800.0			QL=4 ST=2 TYP=6
	15400	LEAR	8	S	0611.0E	0611.0	2.0D	430.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0611.0E	0611.0	3.0D	110.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0611.0E	0611.0	3.0D	91.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0611.0E	0611.0	2.0D	330.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0611.0E	0611.0	2.0D	15000.0			QL=4 ST=2 TYP=6
	1415	SVTO	8	S	0611.0E	0611.0	2.0D	76.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0611.0E	0611.0	2.0D	98.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0611.0E	0611.0	1.0D	280.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0611.0E	0611.0	1.0D	140.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	0611.0E	0611.0	2.0D	3800.0			QL=2 ST=2 TYP=6
	4995	SVTO	8	S	0611.0E	0611.0	2.0D	130.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	0611.0E	0611.0	2.0D	13000.0			QL=2 ST=2 TYP=6
	610	SVTO	49	GB	0611.0E	0611.0	2.0D	940.0			QL=2 ST=2 TYP=6
	234	POTS	4	S/F	0611.0	0611.3	3.5U	77000.0			
	2850	CRIM	3	S	0611.0	0611.8	6.0	105.0	30.0		
	3013	IZMI	7	C	0611.0	0611.8	8.0	75.0	35.0		
	100	HIRA	8	S	0611.1	0611.4	0.6	12500.0			
	950	GORK	4	S/F	0611.1	0611.5	2.9	134.0			
	113	POTS	4	S/F	0611.1	0611.5	8.9U	3000.0D			
	2950	GORK	4	S/F	0611.1	0611.7	4.7	82.0			
	30	POTS	4	S/F	0611.1	0611.7	1.8	360.0U			
	17000	NOBE	7	C	0611.2	0611.4	12.0	390.0			R
	204	IZMI	45	C	0611.2	0611.6	3.0	6800.0			
	35000	NOBE	7	C	0611.2	0611.8	6.0	410.0			R
	80000	NOBE	7	C	0611.2	0611.8	2.0	100.0			R
	200	HIRA	6	S	0611.3	0611.3	2.0	8000.0	2000.0		WR
	600	HUMN	2	S/F	0611.8	0612.0	1.2	300.0	90.0		
	9500	POTS	21	GRF	0711.0	0836.0	109.0	18.0			
	9300	KISV	45	C	0723.2	0724.5	4.1	22.0			
	9300	KISV	45	C	0723.2	0723.9		12.0			
	9500	POTS	4	S/F	0723.4	0724.4	2.6	21.0			
	15000	KISV	2	S/F	0723.5	0724.4	3.0	27.0			
	9100	GORK	2	S/F	0723.5	0724.5	2.0	22.0			
	5900	KISV	2	S/F	0723.5	0724.8	5.0	8.0			
	245	LEAR	8	S	0732.0E	0732.0	1.0D	280.0			QL=4 ST=2 TYP=3
	234	POTS	8	S	0732.6	0732.7	0.5	175.0			
	5900	KISV	23	GRF	0735.0	0810.5	96.8	29.0			
	950	GORK	46	C	0740.6	0743.4	5.7	38.0			
	2950	GORK	46	C	0741.6	0742.8		15.0			
	9300	KISV	23	GRF	0749.2	0809.0	79.5	11.0			
	2850	CRIM	21	GRF	0750.5	0830.0	80.0	27.0	9.0		
	9500	POTS	4	S/F	0754.0	0754.8	2.5	18.0			
	9300	KISV	4	S/F	0754.3	0754.9	3.4	24.0			
	9100	GORK	2	S/F	0754.5	0755.0	1.8	25.0			
	245	LEAR	8	S	0803.0E	0803.0	1.0D	88.0			QL=4 ST=2 TYP=3
	2850	CRIM	1	S	0803.8	0804.5	2.5	12.0	4.0		
	3013	IZMI	5	S	0804.0	0804.5	5.5	6.0	3.0		
	430	KRAK	42	SER	0807.0E	0921.0	351.0D	235.0D			
	430	KRAK	42	SER	0807.0E	1103.4		220.0D			
	5900	KISV	3	S	0826.5	0828.9	10.0	53.0			
	1470	POTS	4	S/F	0827.4	0828.7	4.2	9.0			
	9300	KISV	4	S/F	0827.7	0828.7	4.3	41.0			

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

MARCH 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
19	9500	POTS	4	S/F	0827.8	0828.7	3.0	31.0			
	3013	IZMI	5	S	0827.8	0828.8	5.0	10.0	5.0		
	2850	CRIM	1	S	0828.0	0828.8	3.0	18.8	5.0		
	9100	GORK	2	S/F	0828.0	0828.8	2.2	40.0			
	2950	GORK	1	S	0828.0	0828.8	3.0	16.0			
	15000	KISV	2	S/F	0828.0	0828.9	3.0	14.0			
	1470	POTS	40	F	0918.8	0920.5	4.0	19.0			
	5900	KISV	4	S/F	0920.6	0921.8	5.5	16.0			
	410	SVTO	8	S	0921.0E	0921.0	U	240.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0921.2	0921.8	2.7	19.0			
	2850	CRIM	1	S	0921.3	0921.9	2.2	23.0	7.0		
	3013	IZMI	5	S	0921.4	0922.0	2.5	17.0	8.0		
	3000	POTS	3	S	0921.4	0921.9	2.1	20.0			
	9300	KISV	2	S/F	0921.5	0922.0	2.8	7.0			
	950	GORK	1	S	0921.6	0921.9	2.4	3.0			
	610	SVTO	8	S	0922.0E	0923.0	1.0D	41.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	0932.5	0933.9	3.6	6.0			
	5900	KISV	2	S/F	0933.0	0933.9	3.2	5.0			
	245	SVTO	8	S	0942.0E	0943.0	1.0D	57.0			QL=4 ST=2 TYP=3
	234	POTS	4	S/F	0958.7	0958.9	1.8	150.0			
	5900	KISV	2	S/F	1020.3	1021.2	2.1	5.0			
	9300	KISV	2	S/F	1028.1	1033.3	8.1	9.0			
	5900	KISV	47	GB	1053.8	1103.5	18.6	419.0D			
	9300	KISV	4	S/F	1053.8	1103.6	11.1	156.0			
	15000	KISV	4	S/F	1053.8	1103.6	10.5	141.0			
	9300	KISV	29	PBI	1053.8	1104.9	14.8	18.0			
	2850	CRIM	29	PBI	1101.0	1105.0	6.0	13.0	4.0		
	8800	SVTO	4	S/F	1101.0E	1103.0	3.0D	130.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	1101.0E	1103.0	3.0D	130.0			QL=2 ST=2 TYP=3
	9500	POTS	4	S/F	1101.0	1103.0	13.4	139.0			
	2850	CRIM	3	S	1101.0	1103.8	4.0	61.0	20.0		
	9100	GORK	4	S/F	1101.1	1103.6	2.5	157.0			
	3000	POTS	4	S/F	1101.6	1103.5	4.9	53.0			
	2950	GORK	4	S/F	1101.7	1103.6	4.9	50.0			
	1470	POTS	4	S/F	1101.7	1103.7	4.7	15.0			
	3013	IZMI	7	C	1101.8	1103.8	6.0	49.0	25.0		
	2695	SVTO	8	S	1102.0E	1103.0	2.0D	52.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1102.0E	1103.0	1.0D	770.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	1102.0E	1103.0	1.0D	1600.0			QL=4 ST=2 TYP=6
	4995	SVTO	8	S	1102.0E	1103.0	2.0D	110.0			QL=2 ST=2 TYP=3
	950	GORK	46	C	1102.1E	1102.2	2.1D	50.0			
	536	ONDR	4	S/F	1102.1	1102.2	1.0	1335.0U			
	950	GORK	46	C	1102.1E	1102.9		60.0			
	600	HUMN	2	S/F	1102.5	1103.3	1.3	330.0	100.0		
	808	ONDR	4	S/F	1102.5	1102.6	2.5	41.0			
	810	KRAK	2	S/F	1102.5	1102.9	1.5	77.0	10.0		
	204	IZMI	41	F	1103.0	1103.8	1.0	200.0			
	15000	KISV	29	PBI	1104.3E	1104.3	6.6D	18.0			
	234	POTS	41	F	1116.6	1116.6	2.0	150.0			
	2950	GORK	1	S	1138.2	1139.0	2.0	5.0			
	3013	IZMI	5	S	1138.3	1139.0	7.5	5.0	3.0		
	5900	KISV	29	PBI	1138.3	1142.1	10.4	5.0			
	5900	KISV	2	S/F	1138.3	1139.2	2.5	10.0			
	9300	KISV	22	GRF	1138.4	1148.0	11.1	11.0			
	9300	KISV	22	GRF	1138.4	1142.1		8.0			
	9300	KISV	45	C	1153.0	1156.0		11.0			
	9300	KISV	45	C	1153.0	1155.2	8.2	13.0			
	1470	POTS	4	S/F	1154.5	1155.0	1.2	7.0			
	9500	POTS	4	S/F	1154.5	1155.3	5.5	8.0			
	5900	KISV	2	S/F	1154.7	1155.2	2.4	8.0			
	9300	KISV	2	S/F	1204.6	1205.8	5.2	7.0			
	9300	KISV	2	S/F	1240.3	1244.9	8.4	5.0			
	5900	KISV	2	S/F	1241.0	1244.3	7.2	3.0			
	33	UPIC	4	S/F	1254.2	1254.4	0.8				
	33	UPIC	45	C	1303.2	1303.8	0.8				
	245	SGMR	8	S	1310.0E	1311.0	1.0D	93.0			QL=4 ST=2 TYP=3
	113	POTS	4	S/F	1310.2	1310.8	2.0	200.0			
	234	POTS		S/F	1310.7	1311.4	1.4	150.0			
	610	SGMR	8	S	1510.0E	1510.0	U	53.0			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
19	33	UPIC	45	C	1522.2	1522.5	1.4				
	9400	HUAN	2	S/F	1538.8	1543.6	8.8	16.2	7.6		
	9500	CUBA	1	S	1542.6	1543.2	7.6	8.0	4.0		
	600	HUMN	42	SER	1609.5	1611.0	9.0	42.0			
	2800	OTTA	4	S/F	1609.9	1615.9	20.2	100.3	20.0		
	4995	PALE	8	S	1610.0E	1611.0	1.0D	27.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1610.0E	1611.0	3.0D	33.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1610.0E	1616.0	8.0D	2800.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1610.0E	1610.0	2.0D	49.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1610.0E	1610.0	1.0D	24.0			QL=2 ST=2 TYP=3
	2695	SGMR	8	S	1610.0E	1611.0	1.0D	24.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1610.0E	1611.0	6.0D	1000.0			QL=4 ST=3 TYP=6
	2695	SVTO	4	S/F	1610.0E	1611.0	3.0D	33.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	1610.0E	1616.0	8.0D	2800.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1610.0E	1611.0	1.0D	27.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	1610.1	1616.0	13.5	82.5	39.5		
	9500	CUBA	46	C	1610.2	1614.9	8.8	78.0	14.0		
	15000	CUBA	45	C	1610.2	1615.9	8.2	91.0	26.0		2R
	1415	SGMR	8	S	1611.0E	1611.0	1.0D	23.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1612.0E	1613.0	3.0D	230.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1612.0E	1615.0	7.0D	130.0			QL=4 ST=2 TYP=5
	245	SVTO	4	S/F	1612.0E	1613.0	3.0D	230.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1613.0E	1613.0	U	23.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1613.0E	1613.0	U	25.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1615.0E	1616.0	2.0D	67.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1615.0E	1615.0	2.0D	81.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1615.0E	1616.0	2.0D	67.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1616.0E	1616.0	U	1800.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	1627.0E	1627.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1627.0E	1627.0	U	150.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1635.0	1637.3	5.3	5.4	2.8		
	245	SGMR	4	S/F	1636.0E	1637.0	3.0D	65.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1636.0E	1637.0	3.0D	55.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	1637.0	1637.3	1.0	36.0	15.0		
	245	SGMR	4	S/F	1652.0E	1652.0	3.0D	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1656.0E	1657.0	1.0D	370.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1657.0E	1657.0	U	230.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1734.0E	1735.0	1.0D	80.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1743.0E	1744.0	1.0D	99.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1749.0E	1749.0	1.0D	86.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	1752.0	1754.0	7.0	9.0	4.4		
	9400	HUAN	22	GRF	1810.3	1836.2	58.6	4.5	2.2		
	9400	HUAN	2	S/F	2015.0	2018.0	5.5	9.0	4.0		
	245	PALE	8	S	2116.0E	2116.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2116.0E	2116.0	U	65.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2209.0E	2209.0	U	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2209.0E	2209.0	U	160.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2215.0E	2216.0	1.0D	690.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2216.0E	2216.0	U	850.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	2217.0E	2218.0	1.0D	87.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2304.0E	2304.0	U	210.0			QL=4 ST=2 TYP=3
	17000	NOBE	2	S/F	2353.0	2353.4	6.0	32.0			O,80,35GHz:O
20	204	IZMI	43	NS	0600.0		360.0	30.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	127	TORN	44	NS	0630.0E		510.0D		6.0		V=2
	260	ONDR	44	NS	0850.0E	1050.5	370.0D	632.0U			
	280	CUBA	44	NS	1310.0E		538.0D		31.0		
	235	CUBA	44	NS	1310.0E		538.0D		30.0		
	200	HIRA	44	NS	2100.0E	0620.0	700.0D	100.0	20.0		MR
	100	HIRA	44	NS	2100.0E	0708.0	700.0D	500.0	150.0		SR
	245	LEAR	8	S	0006.0E	0006.0	2.0D	370.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	0006.0E	0006.0	3.0D	310.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0009.0E	0012.0	6.0D	160.0			QL=4 ST=2 TYP=5
	245	LEAR	49	GB	0011.0E	0012.0	5.0D	5200.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0012.0E	0012.0	3.0D	4700.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	0012.0E	0012.0	U	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0048.0E	0048.0	U	300.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0048.0E	0048.0	U	310.0			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
20	245	LEAR	8	S	0146.0E	0146.0	1.0D	230.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0146.0E	0146.0	1.0D	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0159.0E	0200.0	1.0D	96.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0159.0E	0200.0	1.0D	80.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0200.0E	0200.0	U	120.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0200.0E	0200.0	U	100.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0201.0E	0202.0	1.0D	34.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0201.2	0202.0	2.0	12.0			R,80,35GHz:0
	17000	NOBE	1	S	0243.9	0245.2	4.0	44.0			R,80,35GHz:0
	200	HIRA	6	S	0326.0	0326.6	1.6	70.0	30.0		WL
	2840	PEKG	45	C	0327.0	0327.1	15.0	31.2			
	2840	PEKG	46	C	0345.0	0349.0	13.0	87.0			
	1415	LEAR	8	S	0346.0E	0346.0	1.0D	100.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0346.0E	0349.0	3.0D	63.0			QL=4 ST=2 TYP=5
	17000	NOBE	4	S/F	0346.0	0349.0	15.0	86.0			R,80,35GHz:0
	15400	LEAR	8	S	0348.0E	0349.0	1.0D	92.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0348.0E	0349.0	2.0D	59.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0348.0E	0348.0	2.0D	66.0			QL=2 ST=2 TYP=3
	9100	GORK	23	GRF	0418.0E	0518.0	522.0D	18.0			
	17000	NOBE	1	S	0439.0	0440.3	2.0	26.0			0,80,35GHz:0
	410	LEAR	8	S	0457.0E	0457.0	1.0D	87.0			QL=4 ST=2 TYP=3
	9100	GORK	2	S/F	0457.1	0457.8	0.9	22.0			
	9300	KISV	22	GRF	0501.3	0504.8	11.7	18.0			
	2950	GORK	21	GRF	0501.3	0543.8	192.7	17.0			
	15000	KISV	2	S/F	0501.9	0503.9	7.0	25.0			
	17000	NOBE	1	S	0502.8	0504.0	3.0	32.0			0,80,35GHz:0
	5900	KISV	23	GRF	0523.6	0559.6	77.0	41.0			
	9300	KISV	23	GRF	0523.9	0559.6	67.9	41.0			
	9100	GORK	46	C	0524.4	0613.5		105.0			
	9100	GORK	46	C	0524.4	0526.5	72.1	60.0			
	15000	KISV	23	GRF	0524.6E	0644.0	79.4D	34.0			
	17000	NOBE	1	S	0525.5	0526.4	30.0	43.0			R,80,35GHz:0
	15000	KISV	2	S/F	0525.5	0526.6	3.7	37.0			
	5900	KISV	4	S/F	0525.7	0526.5	4.0	21.0			
	9300	KISV	4	S/F	0526.1	0526.5	3.9	45.0			
	2840	PEKG	28	PRE	0539.0	0544.0	33.0	8.9			
	9300	KISV	4	S/F	0539.4	0540.9	9.3	27.0			
	5900	KISV	4	S/F	0539.6	0541.2	7.9	23.0			
	245	SVTO	49	GB	0544.0E	0545.0	2.0D	3200.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0545.0E	0545.0	1.0D	3500.0			QL=4 ST=2 TYP=6
	3013	IZMI	42	SER	0559.0	0616.3		56.0			
	204	IZMI	41	F	0607.0	0607.5	1.0	250.0			
	17000	NOBE	4	S/F	0610.5	0616.0	13.0	210.0			0
	35000	NOBE	4	S/F	0610.5	0616.0	13.0	280.0			0,80GHz:0
	15000	KISV	45	C	0610.7	0616.1	6.3	158.0			
	15000	KISV	45	C	0610.7	0613.7		80.0			
	5900	KISV	45	C	0612.0	0616.0	7.5	44.0			
	15400	LEAR	4	S/F	0612.0E	0616.0	8.0D	170.0			QL=2 ST=2 TYP=5
	15400	SVTO	4	S/F	0612.0E	0616.0	9.0D	160.0			QL=4 ST=2 TYP=5
	2840	PEKG	46	C	0612.0	0615.2	11.0	124.2			
	5900	KISV	45	C	0612.0	0614.3		34.0			
	9300	KISV	45	C	0612.4	0616.0		59.0			
	9300	KISV	45	C	0612.4	0613.6	9.5	73.0			
	8800	LEAR	8	S	0613.0E	0613.0	1.0D	43.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0613.0E	0613.0	3.0D	65.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0613.4	0614.5	1.3	17.0			
	950	GORK	4	S/F	0613.6	0616.2	4.4	90.0			
	2850	CRIM	41	F	0614.0	0616.0	9.0	95.0			
	1415	LEAR	8	S	0615.0E	0616.0	1.0D	160.0			QL=4 ST=2 TYP=3
	2950	GORK	4	S/F	0615.8	0616.1	1.1	92.0			
	2695	LEAR	8	S	0616.0E	0616.0	U	91.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0616.0E	0616.0	U	75.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0616.0E	0616.0	U	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0620.0E	0620.0	U	21.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0620.0E	0620.0	1.0D	41.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0620.6	0620.8	1.8	20.0			
	950	GORK	1	S	0620.7	0620.9	6.3	6.0			
	245	LEAR	8	S	0644.0E	0645.0	1.0D	86.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0705.2	0705.6	1.8	7.0			

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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
20	9300	KISV	2	S/F	0709.5	0710.3	2.1	6.0			
	5900	KISV	2	S/F	0716.7	0717.8	8.4	6.0			
	3013	IZMI	1	S	0717.0	0717.8	2.0	4.0	2.0		
	204	IZMI	41	F	0809.0	0809.3	0.6	210.0			
	113	POTS	42	SER	0842.8	0853.7	16.4	1900.0			
	15000	KISV	2	S/F	0843.1	0844.2	2.0	15.0			
	9300	KISV	2	S/F	0843.2	0844.2	1.8	6.0			
	204	IZMI	42	SER	0844.0	0854.0	15.0	23000.0			
	234	POTS	42	SER	0848.6	0853.6	10.5	2400.0			
	245	LEAR	8	S	0849.0E	0850.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0853.0E	0853.0	1.0D	1600.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0853.0E	0853.0	1.0D	1400.0			QL=4 ST=2 TYP=6
	536	ONDR	41	F	0855.0	1044.0	320.0	613.0			
	245	LEAR	8	S	0858.0E	0858.0	1.0D	220.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0858.0E	0858.0	1.0D	190.0			QL=4 ST=2 TYP=3
	5900	KISV	20	GRF	0903.0	0913.3	20.0	7.0			
	9300	KISV	22	GRF	0908.2	0914.9	13.0	11.0			
	9300	KISV	22	GRF	0925.0	0929.5	7.0	7.0			
	430	KRAK	42	SER	1005.5	1045.0	92.0	260.0D			
	5900	KISV	22	GRF	1009.0	1016.4	12.5	6.0			
	234	POTS	4	S/F	1015.5	1016.5	2.5	950.0			
	40	POTS	4	S/F	1015.7	1016.7	1.4	U			
	113	POTS	4	S/F	1015.9	1016.6	2.3	600.0			
	245	LEAR	8	S	1016.0E	1016.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1016.0E	1016.0	1.0D	95.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1016.0	1016.5	1.3	480.0			
	9300	KISV	23	GRF	1025.5	1026.0	10.0	34.0			
	5900	KISV	23	GRF	1025.6	1026.0	10.0	19.0			
	15000	KISV	21	GRF	1025.7	1026.1	9.0	17.0			
	9500	POTS	3	S	1025.8	1026.0	1.0	30.0			
	9500	POTS	23	GRF	1027.5	1101.1	42.5	47.0			
	810	KRAK	8	S	1031.3	1031.4	0.4	33.0			
	808	ONDR	8	S	1031.5	1031.5	0.2	34.0			
	9300	KISV	42	SER	1036.0	1037.1		5.0			
	9300	KISV	42	SER	1036.0	1100.1	35.0	44.0			
	9300	KISV	42	SER	1036.0	1042.2		14.0			
	9300	KISV	42	SER	1036.0	1044.3		23.0			
	9300	KISV	42	SER	1036.0	1045.6		22.0			
	15000	KISV	42	SER	1036.5	1100.1		30.0			
	15000	KISV	42	SER	1036.5	1048.2		28.0			
	15000	KISV	42	SER	1036.5	1042.2	34.0	40.0			
	9100	GORK	46	C	1040.5	1101.1		50.0			
	5900	KISV	22	GRF	1040.5	1100.1	32.0	17.0			
	9100	GORK	46	C	1040.5	1044.8	27.7	25.0			
	8800	SVTO	8	S	1042.0E	1043.0	1.0D	200.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	1043.0	1045.0	2.5U	120.0	50.0		
	204	IZMI	42	SER	1043.0	1050.0	15.0	550.0			
	810	KRAK	42	SER	1043.3	1043.7	2.5	107.0			
	808	ONDR	46	C	1043.7	1043.9	3.0	81.0			
	610	SVTO	8	S	1044.0E	1044.0	1.0D	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1045.0E	1045.0	U	120.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1045.0E	1045.0	U	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1049.0E	1050.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1049.0E	1050.0	1.0D	1000.0			QL=4 ST=2 TYP=6
	950	GORK	1	S	1055.5	1055.9	2.0	2.5			
	2950	GORK	1	S	1059.4	1101.2	2.6	3.8			
	950	GORK	1	S	1100.8	1101.8	2.9	3.0			
	410	SVTO	8	S	1136.0E	1137.0	1.0D	75.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1137.0E	1137.0	U	100.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	1202.2	1202.7	4.0	19.0			
	9100	GORK	1	S	1202.3	1202.5	0.7	18.0			
	5900	KISV	1	S	1202.5	1202.8	2.5	6.0			
	30	POTS	42	SER	1226.7	1247.1	22.2	6000.0U			
	9300	KISV	1	S	1227.0	1227.4	1.5	9.0			
	113	POTS	42	SER	1227.5	1247.1U	30.0	3500.0D			
	6700	CUBA	21	GRF	1300.0	1327.0	158.0	17.0	8.0		POL OFF
	9400	HUAN	21	GRF	1301.1	1346.5	45.7	18.7	9.6		
	2850	CRIM	20	GRF	1304.0	1311.5	21.0	13.0	4.0		
	1470	POTS	40	F	1307.5	1311.8	10.5	11.0			

S O L A R R A D I O E M I S S I O N
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MARCH 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
20	6700	CUBA	2	S/F	1313.2	1314.5	2.0	6.0	3.0		POL OFF
	6700	CUBA	2	S/F	1330.3	1330.8	1.7	6.0	3.0		POL OFF
	9500	CUBA	1	S	1330.5	1330.8	1.5	6.0	3.0		
	15000	CUBA	1	S	1330.7	1330.8	8.4	9.0	4.0		00L
	9400	HUAN	1	S	1337.7	1340.6	4.9	7.5	3.6		
	9500	CUBA	2	S/F	1340.0	1340.3	1.0	15.0	7.0		
	6700	CUBA	1	S	1340.0	1340.4	1.5	12.0	6.0		POL OFF
	15000	CUBA	1	S	1340.1	1340.7	1.0	14.0	7.0		00L
	245	SGMR	8	S	1400.0E	1401.0	1.0D	250.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1400.0E	1401.0	1.0D	350.0			QL=4 ST=2 TYP=3
	234	POTS	42	SER	1400.5	1401.0	9.4	1700.0			
	113	POTS	41	F	1400.6	1401.0	6.9	3500.0D			
	40	POTS	41	F	1400.9	1401.1U	6.6	U			
	245	SGMR	8	S	1408.0E	1409.0	1.0D	64.0			QL=4 ST=2 TYP=3
	9500	POTS	40	F	1410.0	1420.3	15.0	23.0			
	9400	HUAN	2	S/F	1412.8	1420.5	12.4	16.8	7.4		
	15000	CUBA	21	GRF	1413.0	1420.0	16.0	14.0	7.0		16L
	9500	CUBA	42	SER	1413.0	1420.0	11.0	19.0			
	6700	CUBA	46	C	1413.0	1420.4	11.0	18.0	6.0		POL OFF
	15000	CUBA	1	S	1413.4	1413.7	0.6	10.0	5.0		48L
	3000	POTS	4	S/F	1433.0E	1434.5	2.5D	17.0			
	1470	POTS	4	S/F	1433.0	1434.6	3.5	6.0			
	245	SGMR	8	S	1523.0E	1524.0	1.0D	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1523.0E	1524.0	1.0D	210.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1524.0E	1524.0	U	85.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1604.9	1608.8	6.9	7.5	3.4		
	6700	CUBA	2	S/F	1607.5	1608.5	2.2	3.0	1.0		POL OFF
	6700	CUBA	21	GRF	1631.0	1658.0	101.0	15.0	7.0		POL OFF
	9400	HUAN	2	S/F	1631.1	1632.6	4.0	24.3	9.6		
	9500	CUBA	1	S	1631.8	1632.9	6.7	20.0	10.0		
	410	SGMR	8	S	1632.0E	1632.0	1.0D	60.0			QL=2 ST=2 TYP=3
	6700	CUBA	1	S	1632.0	1632.8	2.0	10.0	5.0		POL OFF
	15000	CUBA	1	S	1632.1	1632.8	1.5	17.0	8.0		9R
	9400	HUAN	2	S/F	1721.8	1724.0	6.2	18.7	7.6		
	2695	SGMR	8	S	1723.0E	1724.0	2.0D	75.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	1723.2	1724.3	5.9	93.4	19.0		
	6700	CUBA	2	S/F	1723.3	1724.5	3.7	18.0	9.0		POL OFF
	9500	CUBA	1	S	1723.3	1724.5	2.7	14.0	7.0		
	15000	CUBA	1	S	1723.9	1724.4	1.1	17.0	8.0		00L
	4995	SGMR	8	S	1724.0E	1724.0	U	42.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1729.0	1729.2	1.0	6.0	3.0		
	15000	CUBA	4	S/F	1736.8	1739.7	8.4	49.0	24.0		3R
	9400	HUAN	4	S/F	1736.9	1740.3	10.8	24.3	12.6		
	6700	CUBA	2	S/F	1737.0	1740.5	6.0	19.0	9.0		POL OFF
	2800	OTTA	3	S	1739.6	1740.7	2.6	13.4	4.0		
	245	SGMR	49	GB	1741.0E	1741.0	3.0D	13000.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1759.0E	1759.0	1.0D	81.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1815.0E	1815.0	1.0D	95.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1815.0E	1815.0	U	33.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1815.0	1815.5	6.8	46.8	18.9		
	9500	CUBA	46	C	1815.2	1819.0	6.8	63.0	12.0		
	6700	CUBA	4	S/F	1815.3	1819.4	7.7	64.0			POL OFF
	15000	CUBA	45	C	1815.4	1819.1	7.4	221.0	36.0		2L
	4995	PALE	8	S	1818.0E	1819.0	1.0D	61.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1818.0E	1819.0	1.0D	97.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1818.0E	1819.0	2.0D	71.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1818.0E	1819.0	2.0D	220.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1819.0E	1819.0	U	160.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	1819.0	1819.2	2.3	157.7	32.0		
	9400	HUAN	2	S/F	1849.1	1850.5	5.1	9.4	5.2		
	9400	HUAN	21	GRF	1930.2	1955.5	55.0	13.1	7.0		
	245	SGMR	4	S/F	1934.0E	1935.0	6.0D	63.0			QL=4 ST=3 TYP=3
	9400	HUAN	2	S/F	1946.1	1949.0	5.2	12.2	5.4		
	9400	HUAN	4	S/F	2010.6	2012.0	3.7	69.2	28.6		
	9500	CUBA	1	S	2010.8	2012.2	3.3	45.0	22.0		
	6700	CUBA	2	S/F	2010.9	2012.1	4.1	43.0	21.0		POL OFF
	8800	SGMR	8	S	2011.0E	2012.0	1.0D	52.0			QL=4 ST=2 TYP=3
	9500	CUBA	29	PBI	2014.1		6.9	6.0	3.0		
	245	SGMR	4	S/F	2021.0E	2022.0	8.0D	62.0			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
20	410	SGMR	8	S	2052.0E	2052.0	U	72.0			QL=4 ST=2 TYP=3
	15000	CUBA	46	C	2108.0	2119.1	17.2	89.0	22.0		POL OFF
	9400	HUAN	41	F	2109.2	2126.0		29.9			
	9400	HUAN	41	F	2109.2	2114.1	25.5	59.9	16.3		
	9400	HUAN	41	F	2109.2	2119.5		39.3			
	8800	SGMR	8	S	2112.0E	2113.0	2.0D	45.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2112.0E	2112.0	2.0D	51.0			QL=4 ST=2 TYP=3
	9500	CUBA	42	SER	2112.0	2113.9	18.2	41.0			
	6700	CUBA	2	S/F	2112.5	2113.9	4.5	30.0	15.0		POL OFF
	245	SGMR	8	S	2119.0E	2119.0	U	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2119.0E	2119.0	U	82.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2119.0E	2119.0	U	27.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2119.0E	2119.0	U	65.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2119.0E	2119.0	1.0D	80.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	2122.0E	2123.0	3.0D	6200.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	2122.0E	2123.0	1.0D	900.0			QL=4 ST=2 TYP=6
	235	CUBA	7	C	2122.9	2124.0	1.4	714.0			
	280	CUBA	6	S	2122.9	2124.0	1.4	1477.0			
	245	SGMR	4	S/F	2209.0E	2211.0	5.0D	270.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	2211.8	2212.3	3.7	17.0	8.0		
	9400	HUAN	2	S/F	2226.4	2230.8	10.3	19.6	8.8		
	17000	NOBE	4	S/F	2302.9	2303.5	5.0	74.0			L
	35000	NOBE	4	S/F	2302.9	2303.5	5.0	40.0			O,80GHz:O
	410	LEAR	8	S	2314.0E	2314.0	1.0D	340.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	2314.0E	2314.0	3.0D	880.0			QL=4 ST=2 TYP=6
	15400	LEAR	49	GB	2332.0E	2333.0	4.0D	540.0			QL=2 ST=2 TYP=6
	8800	LEAR	4	S/F	2332.0E	2333.0	4.0D	310.0			QL=2 ST=2 TYP=3
	80000	NOBE	3	S	2332.4	2333.1	5.0	40.0			
	35000	NOBE	3	S	2332.4	2333.1	9.0	224.0			O
	17000	NOBE	4	S/F	2332.4	2333.1	17.0	457.0			R
	8800	LEAR	4	S/F	2341.0E	2342.0	3.0D	44.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	2341.0E	2342.0	2.0D	55.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	2342.0E	2342.0	1.0D	150.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2342.0E	2342.0	U	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2343.0E	2344.0	1.0D	220.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2344.0E	2344.0	U	220.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2354.0E	2354.0	1.0D	80.0			QL=4 ST=2 TYP=3
21	245	LEAR	44	NS	0236.0E	0428.0	463.0D	150.0			QL=4 ST=2 TYP=1
	234	POTS	44	NS	0550.0E	1415.0	556.0D	70.0			
	113	POTS	44	NS	0550.0E	1442.5	554.0D	100.0			
	204	IZMI	43	NS	0600.0		360.0	90.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	127	TORN	44	NS	0620.0E		520.0D		950.0		V=1
	260	ONDR	44	NS	0850.0E	1021.0	370.0D	621.0U			
	245	SVTO	44	NS	1026.0E	1216.0	374.0D	170.0			QL=4 ST=2 TYP=1
	245	SGMR	44	NS	1139.0E	1140.0	741.0D	81.0			QL=2 ST=3 TYP=1
	280	CUBA	44	NS	1310.0E		350.0D		55.0		
	235	CUBA	44	NS	1310.0E		530.0D		66.0		
	235	CUBA	43	NS	1513.0	1518.7	10.4	1364.0			
	235	CUBA	43	NS	2023.3	2029.4	19.3	16135.0D			
	100	HIRA	44	NS	2100.0E	0425.0	700.0D	700.0	550.0		SR
	200	HIRA	44	NS	2100.0E	0318.0	700.0D	120.0	20.0		SR
	245	LEAR	44	NS	2300.0E	0119.0	678.0D	170.0			QL=4 ST=2 TYP=1
	245	PALE	44	NS	2330.0E	0337.0	297.0D	240.0			QL=2 ST=2 TYP=1
	245	LEAR	8	S	0032.0E	0032.0	1.0D	90.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0037.0E	0037.0	1.0D	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0040.0E	0041.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0040.0E	0041.0	1.0D	170.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0041.0E	0041.0	U	160.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0041.0E	0041.0	U	130.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0042.0E	0043.0	1.0D	68.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0048.0E	0049.0	1.0D	230.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0049.0E	0049.0	U	190.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0050.0E	0050.0	U	94.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0057.0E	0057.0	1.0D	740.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	0057.0E	0058.0	2.0D	250.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0106.0	0107.4	8.0	34.0			O,80,35GHz:O
	2840	PEKG	45	C	0109.0	0118.4	12.0	9.0			

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
21	245	LEAR	8	S	0116.0E	0118.0	2.0D	480.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0116.0E	0116.0	1.0D	37.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0116.0E	0118.0	2.0D	130.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0116.0E	0118.0	2.0D	50.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0116.0E	0116.0	1.0D	39.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0116.0E	0118.0	2.0D	410.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0116.0E	0118.0	2.0D	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0123.0E	0123.0	U	73.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0123.0E	0124.0	1.0D	340.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0123.0E	0123.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0123.0E	0124.0	1.0D	270.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0150.0E	0150.0	U	110.0			QL=4 ST=2 TYP=3
	2840	PEKG	46	C	0249.4	0301.4	18.6	60.9			
	410	LEAR	8	S	0251.0E	0251.0	U	61.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0251.0E	0251.0	1.0D	140.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0255.0E	0300.0	5.0D	150.0			QL=4 ST=2 TYP=5
	410	PALE	4	S/F	0300.0E	0305.0	5.0D	210.0			QL=4 ST=2 TYP=5
	17000	NOBE	1	S	0300.6	0306.0	10.0	36.0			0,80,35GHz:0
	2695	PALE	8	S	0302.0E	0302.0	U	31.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0308.0E	0308.0	U	110.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0311.0E	0311.0	U	98.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0348.0E	0348.0	1.0D	130.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0356.0E	0356.0	4.0D	380.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0422.0E	0422.0	1.0D	67.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0518.0U	0851.0	462.0D	40.0			
	245	LEAR	49	GB	0524.0E	0524.0	U	2400.0			QL=2 ST=3 TYP=6
	245	SVTO	49	GB	0524.0E	0524.0	U	2100.0			QL=4 ST=2 TYP=6
	2840	PEKG	20	GRF	0542.0	0550.6	18.0	5.3			
	15000	KISV	4	S/F	0547.0	0550.0	12.0	37.0			
	9300	KISV	42	SER	0547.5	0610.0		46.0			
	9300	KISV	42	SER	0547.5	0550.0	40.0	73.0			
	9300	KISV	42	SER	0547.5	0609.2		40.0			
	9300	KISV	42	SER	0547.5	0605.2		23.0			
	9300	KISV	42	SER	0547.5	0613.7		22.0			
	2950	GORK	20	GRF	0548.2	0555.6	14.2	7.2			
	5900	KISV	22	GRF	0548.5	0549.9	15.0	10.0			
	245	LEAR	4	S/F	0549.0E	0551.0	3.0D	350.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0549.0E	0549.0	2.0D	240.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0549.0E	0549.0	2.0D	290.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0549.0E	0549.0	2.0D	62.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0549.0E	0549.0	1.0D	35.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0549.0E	0550.0	2.0D	290.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0549.0E	0550.0	2.0D	200.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0549.0E	0550.0	1.0D	47.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	0549.0E	0551.0	3.0D	330.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0549.1	0610.0		43.0			
	80000	NOBE	3	S	0549.1	0550.0	4.0	30.0			
	9100	GORK	46	C	0549.1	0550.0	29.4	70.0			
	35000	NOBE	4	S/F	0549.1	0550.0	22.0	340.0			L
	17000	NOBE	4	S/F	0549.1	0550.0	22.0	270.0			L
	17000	NOBE	4	S/F	0549.1	0605.2		87.0			L
	35000	NOBE	4	S/F	0549.1	0605.2		20.0			O
	35000	NOBE	4	S/F	0549.1	0608.8		20.0			O
	17000	NOBE	4	S/F	0549.1	0608.8		55.0			L
	100	HIRA	46	C	0549.2	0549.8	2.0	3800.0			
	200	HIRA	46	C	0549.3	0549.4	2.6	500.0	150.0		WR
	500	HIRA	7	C	0549.5	0549.7	10.0	150.0	12.0		O
	950	GORK	46	C	0549.7	0550.2	9.1	28.0			
	950	GORK	46	C	0549.7	0556.2		16.0			
	245	SVTO	4	S/F	0554.0E	0555.0	4.0D	76.0			QL=4 ST=2 TYP=3
	950	GORK	30	PBI	0558.9E	0558.9	7.9D	5.0			
	5900	KISV	22	GRF	0604.5	0610.3	20.0	18.0			
	15000	KISV	4	S/F	0604.7	0605.2	3.0	80.0			
	15400	LEAR	8	S	0605.0E	0605.0	U	74.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0605.0E	0605.0	1.0D	4800.0			QL=2 ST=2 TYP=6
	15400	SVTO	8	S	0605.0E	0605.0	U	55.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	0605.0E	0605.0	1.0D	4400.0			QL=4 ST=2 TYP=6
	950	GORK	2	S/F	0605.1	0605.2	0.7	5.0			
	204	IZMI	49	GB	0605.5	0605.8	2.0	2850.0			

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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	15400	LEAR	8	S	0608.0E	0608.0	1.0D	67.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0608.0E	0608.0	1.0D	52.0			QL=2 ST=2 TYP=3
	15000	KISV	4	S/F	0608.4	0608.8	3.0	64.0			
	410	LEAR	8	S	0609.0E	0610.0	1.0D	42.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0648.0E	0649.0	1.0D	110.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0648.0E	0649.0	1.0D	90.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0649.0E	0649.0	1.0D	34.0			QL=4 ST=2 TYP=3
	17000	NOBE	20	GRF	0650.8	0653.4	10.0	25.0			O,80,35GHz:O
	9300	KISV	4	S/F	0651.0	0656.5	12.0	25.0			
	40	POTS	4	S/F	0654.7	0655.4	3.5	U			
	245	LEAR	8	S	0655.0E	0656.0	2.0D	220.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0655.0E	0656.0	2.0D	200.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0655.0E	0655.0	1.0D	28.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0655.0E	0656.0	1.0D	24.0			QL=4 ST=2 TYP=3
	234	POTS	4	S/F	0655.2	0656.6	1.9	300.0			
	15000	KISV	23	GRF	0719.0	0730.6	17.0	67.0			
	9300	KISV	29	PBI	0720.5	0733.0	21.0	27.0			
	9300	KISV	45	C	0720.5	0730.5	12.5	114.0D			
	9300	KISV	45	C	0720.5	0726.8		34.0			
	9100	GORK	46	C	0721.5	0730.5		116.0			
	9100	GORK	46	C	0721.5	0725.7	14.0	28.0			
	5900	KISV	29	PBI	0722.0	0733.0	17.0	24.0			
	5900	KISV	42	SER	0722.0	0730.5	11.0	107.0			
	5900	KISV	42	SER	0722.0	0725.7		21.0			
	9500	POTS	42	SER	0725.2	0730.6	14.8	87.0			
	2950	GORK	21	GRF	0725.4	0733.8	18.7	7.8			
	17000	NOBE	2	S/F	0725.6	0730.5	25.0	36.0			L,80,35GHz:0
	2840	PEKG	46	C	0728.0	0730.9	26.2	51.5			
	3013	IZMI	7	C	0729.0	0730.2	15.0	33.0			
	3000	POTS	4	S/F	0729.6	0730.3	4.6	33.0			
	2950	GORK	4	S/F	0729.8	0730.3	3.7	34.0			
	2850	CRIM	4	S/F	0729.9	0730.1	5.0	26.0	8.0		
	2695	LEAR	8	S	0730.0E	0730.0	1.0D	40.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0730.0E	0730.0	U	46.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0730.0E	0730.0	1.0D	73.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0730.0E	0730.0	1.0D	95.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0730.0E	0730.0	1.0D	33.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0730.0E	0730.0	2.0D	86.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0730.0E	0730.0	2.0D	93.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0730.0E	0730.0	1.0D	56.0			QL=4 ST=2 TYP=3
	1470	POTS	42	SER	0730.0	0738.2	9.0	21.0			
	950	GORK	2	S/F	0730.2	0730.6	1.1	4.0			
	234	POTS	4	S/F	0731.8	0732.0	1.0	150.0			
	113	POTS	4	S/F	0731.9	0732.1	0.6	1800.0			
	204	IZMI	41	F	0732.0	0732.0	1.0	300.0			
	245	SVTO	8	S	0732.0E	0732.0	U	56.0			QL=4 ST=2 TYP=3
	2850	CRIM	46	C	0809.0	0816.0		210.0			
	2850	CRIM	46	C	0809.0	0824.0		59.0			
	2695	LEAR	4	S/F	0809.0E	0811.0	3.0D	56.0			QL=4 ST=2 TYP=3
	2850	CRIM	30	PBI	0809.0	0828.0	97.0	35.0	10.0		
	3000	POTS	29	PBI	0809.0	0816.0	171.0	122.0			
	3013	IZMI	40	F	0809.0	0816.2	26.0	26.0			
	9100	GORK	2	S/F	0809.0	0811.3	9.0	45.0			
	2850	CRIM	46	C	0809.0	0810.5	19.0	70.0U	54.0U		
	2840	PEKG	46	C	0809.0	0815.5	27.0	208.9			
	2950	GORK	23	GRF	0809.1	0824.0	219.0	34.0			
	2950	GORK	4	S/F	0809.2	0810.5	3.9	36.0			
	1470	POTS	29	PBI	0809.3	0816.4	92.2	236.0			
	245	LEAR	8	S	0811.0E	0811.0	U	120.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0811.0E	0811.0	1.0D	130.0			QL=2 ST=2 TYP=3
	2950	GORK	4	S/F	0814.8	0816.2	3.1	136.0			
	2695	LEAR	4	S/F	0815.0E	0816.0	3.0D	190.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0815.0E	0816.0	1.0D	34.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	0815.0E	0816.0	1.0D	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0815.0E	0815.0	U	42.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0816.0E	0816.0	U	620.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0816.0E	0816.0	U	54.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0816.0E	0816.0	U	150.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0816.0E	0816.0	U	480.0			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
21	4995	SVTO	8	S	0816.0E	0816.0	U	60.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0837.0	0851.0	14.0	2800.0			
	245	LEAR	49	GB	0838.0E	0839.0	2.0D	2000.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0838.0E	0839.0	3.0D	1600.0			QL=2 ST=3 TYP=6
	234	POTS	42	SER	0838.5	0839.6	12.7	2200.0			
	113	POTS	42	SER	0838.7	0839.6	11.9	1100.0			
	430	KRAK	42	SER	0839.0	1241.5U	319.0	170.0D			
	430	KRAK	42	SER	0839.0	0950.6	319.0	140.0			
	430	KRAK	42	SER	0839.0	1342.7U	319.0	170.0D			
	430	KRAK	42	SER	0839.0	0850.8	319.0	230.0D			
	950	GORK	46	C	0839.3	0840.6		35.0			
	950	GORK	46	C	0839.3	0839.6	2.7	10.0			
	810	KRAK	8	S	0840.6	0840.6	0.3	17.0			
	8800	SVTO	8	S	0849.0E	0850.0	2.0D	310.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0849.0E	0850.0	2.0D	850.0			QL=2 ST=2 TYP=6
	410	LEAR	49	GB	0850.0E	0850.0	1.0D	630.0			QL=4 ST=2 TYP=6
	245	LEAR	49	GB	0850.0E	0850.0	1.0D	810.0			QL=2 ST=2 TYP=6
	410	SVTO	49	GB	0850.0E	0850.0	1.0D	1200.0			QL=4 ST=2 TYP=6
	536	ONDR	41	F	0850.0	1241.4	360.0	1324.0U			
	410	LEAR	8	S	0856.0E	0858.0	2.0D	440.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0856.0E	0858.0	2.0D	330.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0856.0E	0858.0	2.0D	200.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0856.0E	0858.0	3.0D	350.0			QL=2 ST=2 TYP=3
	2850	CRIM	1	S	0939.9	0940.1	1.2	13.0	4.0		
	245	LEAR	8	S	0941.0E	0941.0	1.0D	160.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0941.0E	0941.0	1.0D	170.0			QL=2 ST=2 TYP=3
	234	POTS	42	SER	0941.0	0950.1	20.0	1500.0			
	113	POTS	42	SER	0941.0	0950.2	11.2	3500.0			
	15000	KISV	4	S/F	0944.4	0950.2	8.5	169.0			
	15000	KISV	29	PBI	0944.4	0952.9	13.7	28.0			
	245	LEAR	8	S	0945.0E	0945.0	U	330.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0945.0E	0945.0	U	340.0			QL=2 ST=2 TYP=3
	204	IZMI	42	SER	0948.5	0950.0	18.0	1400.0			
	1470	POTS	29	PBI	0948.5	0950.0	72.5	44.0			
	9500	POTS	29	PBI	0948.8	0950.2	61.2	47.0			
	950	GORK	29	PBI	0948.9	0954.0	12.8	8.0			
	950	GORK	4	S/F	0948.9	0950.1	5.1	225.0			
	9100	GORK	46	C	0948.9	0950.2	27.0	50.0			
	9300	KISV	45	C	0948.9	0950.2	35.4	44.0			
	9300	KISV	45	C	0948.9	0959.7		17.0			
	245	LEAR	49	GB	0949.0E	0950.0	1.0D	1700.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0949.0E	0950.0	2.0D	500.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0949.0E	0950.0	2.0D	310.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0949.0E	0950.0	2.0D	130.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0949.0E	0950.0	2.0D	460.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0949.0E	0950.0	2.0D	290.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0949.0E	0950.0	2.0D	1500.0			QL=2 ST=2 TYP=6
	600	HUMN	2	S/F	0949.0	0950.5	9.0	138.0	10.0		
	810	KRAK	4	S/F	0949.2	0950.0	4.4	163.0	17.0		
	30	POTS	4	S/F	0949.5	0950.3	2.0	4000.0U			
	2950	GORK	1	S	0949.6	0950.2	2.0	7.8			
	1415	LEAR	8	S	0950.0E	0950.0	U	50.0			QL=4 ST=2 TYP=3
	808	ONDR	4	S/F	0950.0	0950.0	3.5	130.0			
	1415	SVTO	8	S	0950.0E	0950.0	U	43.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0950.0E	0950.0	U	40.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0958.0E	0959.0	2.0D	440.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0959.0E	0959.0	1.0D	420.0			QL=2 ST=3 TYP=3
	245	SVTO	8	S	1005.0E	1006.0	1.0D	130.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	1014.0E	1014.0	U	89.0			QL=4 ST=2 TYP=3
	9300	KISV	23	GRF	1027.0	1035.7	29.0	46.0			
	5900	KISV	23	GRF	1030.0	1036.1	15.6	22.0			
	9300	KISV	4	S/F	1030.7	1032.2	3.9	124.0			
	15000	KISV	29	PBI	1030.7	1037.2	10.8	46.0			
	15000	KISV	45	C	1030.7	1032.3	6.5	204.0			
	15000	KISV	45	C	1030.7	1033.5		117.0			
	9100	GORK	2	S/F	1030.8	1032.2	15.4	135.0			
	8800	SVTO	8	S	1031.0E	1032.0	1.0D	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1031.0E	1032.0	3.0D	160.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1031.0	1032.1	4.8				

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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	950	GORK	46	C	1031.0	1034.2		13.0			
	950	GORK	46	C	1031.0	1032.3	5.0	17.0			
	204	IZMI	42	SER	1031.0	1034.5	5.0	330.0			
	810	KRAK	3	S	1031.0	1034.5	6.0	9.0	4.0		
	600	HUMN	2	S/F	1031.5	1035.7	6.3	155.0	11.0		
	5900	KISV	4	S/F	1031.6	1032.3	3.2	42.0			
	2950	GORK	46	C	1031.9	1034.4		16.0			
	2950	GORK	46	C	1031.9	1032.7	4.9	31.0			
	2850	CRIM	40	F	1031.9	1033.8	3.0	39.0			
	2950	GORK	46	C	1031.9	1033.9		22.0			
	610	SVTO	8	S	1034.0E	1035.0	1.0D	260.0			QL=4 ST=2 TYP=3
	2850	CRIM	1	S	1125.0	1127.0	3.0	8.0	2.0		
	3000	POTS	3	S	1125.8	1126.8	2.5	8.0			
	2950	GORK	1	S	1126.1	1126.6	1.7	4.5			
	5900	KISV	22	GRF	1139.9	1153.3	16.6	7.0			
	410	SGMR	8	S	1143.0E	1143.0	1.0D	280.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1143.0E	1144.0	1.0D	490.0			QL=4 ST=2 TYP=3
	9300	KISV	23	GRF	1204.0	1225.8	53.0	12.0			
	245	SGMR	8	S	1216.0E	1216.0	U	140.0			QL=2 ST=2 TYP=3
	9400	HUAN	23	GRF	1222.8	1246.0	94.5	13.4	6.2		
	808	ONDR	48	C	1230.7	1231.5	1.6	299.0			
	3000	POTS	22	GRF	1234.6	1241.3	10.6	18.0			
	9500	POTS	23	GRF	1235.7	1241.0	19.7	54.0			
	5900	KISV	46	C	1236.7	1241.0		22.0			
	9300	KISV	45	C	1236.7	1241.0	16.0	17.0			
	5900	KISV	46	C	1236.7	1241.0	12.4	32.0			
	5900	KISV	45	C	1236.7	1238.1		22.0			
	9300	KISV	45	C	1236.7	1241.9		67.0			
	5900	KISV	45	C	1236.7	1241.9		28.0			
	15000	KISV	45	C	1236.8	1241.0		89.0			
	15000	KISV	45	C	1236.8	1241.9	15.1	95.0			
	9100	GORK	2	S/F	1236.9	1241.0	16.1	75.0			
	9400	HUAN	4	S/F	1237.0	1242.0		57.5			
	9400	HUAN	4	S/F	1237.0	1241.0	7.2	65.2	28.6		
	2850	CRIM	7	C	1237.1	1238.0	7.0	10.5	4.0		
	2850	CRIM	7	C	1237.1	1241.2		13.0			
	2950	GORK	46	C	1237.4	1238.1	6.9	8.4			
	2950	GORK	46	C	1237.4	1241.4		12.3			
	1470	POTS	4	S/F	1240.0	1241.0	2.8	42.0			
	15400	SGMR	8	S	1240.0E	1241.0	2.0D	90.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1240.0E	1241.0	4.0D	940.0			QL=4 ST=2 TYP=6
	8800	SGMR	8	S	1240.0E	1241.0	2.0D	62.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1240.0E	1241.0	6.0D	950.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1240.0E	1241.0	3.0D	530.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1240.0E	1241.0	4.0D	920.0			QL=2 ST=2 TYP=6
	30	POTS	4	S/F	1240.0	1241.5	2.0	4000.0U			
	234	POTS	4	S/F	1240.0U	1241.6	5.5U	6000.0			
	33	UPIC	46	C	1240.0	1241.8U	2.0				
	950	GORK	4	S/F	1240.2	1241.5	4.3	390.0			
	113	POTS	4	S/F	1240.2	1241.7	5.4	3800.0			
	600	HUMN	2	S/F	1240.5	1242.0	4.3	234.0	33.0		
	810	KRAK	4	S/F	1240.6	1241.6	3.5	192.0	17.0		
	1415	SGMR	8	S	1241.0E	1241.0	U	70.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1241.0E	1241.0	U	24.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1241.0E	1241.0	1.0D	80.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1307.0E	1458.0	292.0D	20.0			OOR
	9500	CUBA	1	S	1314.5	1315.0	2.5	6.0	3.0		
	410	SGMR	8	S	1333.0E	1334.0	1.0D	64.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1333.0E	1333.0	U	100.0			QL=4 ST=3 TYP=3
	6700	CUBA	4	S/F	1340.9	1345.9	8.6	17.0	8.0		5L
	410	SGMR	49	GB	1342.0E	1342.0	4.0D	1300.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1342.0E	1345.0	4.0D	1500.0			QL=2 ST=2 TYP=6
	410	SVTO	49	GB	1342.0E	1343.0	4.0D	1300.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1342.0E	1345.0	7.0D	1400.0			QL=2 ST=2 TYP=7
	9400	HUAN	2	S/F	1342.2	1345.8	10.7	21.1	10.2		
	40	POTS	42	SER	1342.6	1346.5	10.0	U			
	9500	POTS	42	SER	1342.6	1345.6	10.2	22.0			
	234	POTS	42	SER	1342.7	1345.3	9.3	10000.0			
	9500	CUBA	42	SER	1342.8	1345.9	10.2	22.0			

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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	600	HUMN	41	F	1343.0	1346.5	8.0	46.0			
	610	SGMR	8	S	1345.0E	1345.0	1.0D	230.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1345.0E	1345.0	U	27.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1345.0E	1345.0	U	180.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	1345.0	1347.3	7.8	12.8	5.6		
	113	POTS	42	SER	1345.0	1351.5	14.0	2000.0			
	810	KRAK	2	S/F	1345.4	1346.0	2.0	45.0	5.0		
	1470	POTS	4	S/F	1345.4	1346.2	2.0	13.0			
	808	ONDR	7	C	1345.5	1345.7	2.0	27.0			
	15000	CUBA	1	S	1350.9	1351.4	2.1	26.0	13.0		38L
	810	KRAK	8	S	1351.0	1351.0	0.4	13.0			
	245	SGMR	49	GB	1351.0E	1351.0	U	880.0			QL=2 ST=2 TYP=6
	15400	SGMR	8	S	1351.0E	1351.0	U	42.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1351.0E	1351.0	1.0D	950.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	1357.0E	1357.0	U	75.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1357.0E	1357.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1357.0E	1357.0	U	110.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1415.0E	1415.0	1.0D	50.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1453.0E	1453.0	U	480.0			QL=2 ST=2 TYP=3
	9400	HUAN	23	GRF	1504.8	1520.2	58.9	12.5	5.4		
	15000	CUBA	21	GRF	1507.0	1522.0	25.0	37.0	18.0		30L
	245	SVTO	49	GB	1509.0E	1510.0	1.0D	3200.0			QL=2 ST=2 TYP=6
	6700	CUBA	46	C	1509.3	1514.3	24.1	40.0	12.0		6R
	9500	CUBA	46	C	1509.9	1514.4	10.6	71.0	10.0		
	15400	SGMR	4	S/F	1510.0E	1514.0	4.0D	180.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1510.0E	1510.0	U	400.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1510.0E	1510.0	U	3000.0			QL=2 ST=2 TYP=6
	410	SVTO	8	S	1510.0E	1510.0	U	460.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1510.1	1514.0	8.1	103.6	42.6		
	600	HUMN	41	F	1511.0	1520.0	18.0	36.0			
	15000	CUBA	2	S/F	1511.0	1514.3	5.6	121.0	60.0		9L
	8800	SGMR	8	S	1512.0E	1514.0	2.0D	67.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1512.0E	1514.0	4.0D	170.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1512.4	1514.2	2.2				
	280	CUBA	7	C	1513.0	1518.7	10.4	504.0			
	410	SGMR	8	S	1514.0E	1514.0	U	34.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1514.0E	1514.0	1.0D	31.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1514.0E	1514.0	1.0D	44.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1514.0E	1514.0	U	27.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1514.0E	1514.0	4.0D	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1514.0E	1514.0	U	85.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1514.0E	1514.0	3.0D	60.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1517.0E	1517.0	1.0D	1000.0			QL=2 ST=2 TYP=6
	15400	SGMR	4	S/F	1518.0E	1520.0	4.0D	47.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1519.0E	1520.0	3.0D	870.0			QL=2 ST=2 TYP=6
	410	SGMR	49	GB	1519.0E	1519.0	3.0D	1500.0			QL=4 ST=2 TYP=6
	610	SGMR	4	S/F	1519.0E	1519.0	3.0D	210.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1525.5	1527.0	4.3	17.3	6.8		
	610	SGMR	8	S	1526.0E	1527.0	1.0D	64.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1526.0E	1527.0	2.0D	29.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1557.0E	1557.0	1.0D	170.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1619.4	1620.0	3.6	12.0	6.0		19L
	9400	HUAN	22	GRF	1635.3	1653.6	68.3	7.7	3.2		
	9500	CUBA	20	GRF	1646.0	1709.0	47.0	19.0	9.0		
	9400	HUAN	1	S	1758.3	1800.3	3.9	9.6	4.4		
	15000	CUBA	1	S	1817.5	1818.3	2.0	21.0	10.0		13L
	9400	HUAN	21	GRF	1830.1	1902.2	72.3	13.4	5.8		
	9500	CUBA	23	GRF	1849.0	1854.0	21.0	29.0	14.0		
	245	PALE	49	GB	1850.0E	1850.0	U	540.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	1850.0E	1852.0	2.0D	910.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1850.0E	1850.0	1.0D	530.0			QL=2 ST=2 TYP=6
	410	SGMR	49	GB	1850.0E	1851.0	3.0D	1700.0			QL=4 ST=2 TYP=6
	1415	SGMR	8	S	1851.0E	1852.0	2.0D	48.0			QL=4 ST=2 TYP=3
	6700	CUBA	23	GRF	1851.0	1858.0	18.0	19.0	9.0		12R
	1415	PALE	8	S	1852.0E	1852.0	1.0D	51.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1852.0E	1852.0	U	25.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1852.0E	1853.0	1.0D	32.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	1856.6	1858.6	4.6	17.3	6.4		
	9400	HUAN	1	S	1932.5	1934.7	4.1	5.8	2.6		

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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
21	9400	HUAN	3	S	1951.0	1952.8	5.2	24.9	10.4		
	410	SGMR	8	S	1952.0E	1952.0	U	97.0			QL=4 ST=2 TYP=3
	9400	HUAN	45	C	2014.3	2023.4U	41.1	188.0	76.4		
	6700	CUBA	2	S/F	2014.9	2015.4	1.6	14.0	7.0		OOR
	8800	PALE	4	S/F	2018.0E	2031.0	24.0D	410.0			QL=4 ST=2 TYP=5
	6700	CUBA	46	C	2018.5	2031.0	50.5	186.0	62.0		5R
	9500	CUBA	46	C	2018.5	2031.5	39.3	348.0	50.0		
	6700	CUBA	46	C	2018.5	2023.6		103.0			4R
	9500	CUBA	46	C	2018.5	2023.6		181.0			
	15000	CUBA	47	GB	2018.8	2031.2		449.0			16L
	15000	CUBA	47	GB	2018.8	2023.2	15.3	649.0			15L
	15000	CUBA	47	GB	2018.8	2019.5		536.0			14L
	1415	PALE	8	S	2019.0E	2019.0	2.0D	58.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2019.0E	2019.0	14.0D	34.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2019.0E	2023.0	13.0D	520.0			QL=4 ST=2 TYP=7
	410	SGMR	49	GB	2019.0E	2028.0	13.0D	3000.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	2019.0E	2023.0	16.0D	680.0			QL=4 ST=2 TYP=7
	2800	OTTA	22	GRF	2019.1	2023.7	29.3	79.7	16.0		
	245	PALE	49	GB	2021.0E	2029.0	16.0D	7300.0			QL=4 ST=2 TYP=7
	4995	PALE	4	S/F	2021.0E	2031.0	15.0D	110.0			QL=4 ST=2 TYP=5
	245	SGMR	49	GB	2021.0E	2029.0	12.0D	7500.0			QL=2 ST=2 TYP=6
	4995	SGMR	4	S/F	2021.0E	2023.0	14.0D	64.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2021.0E	2031.0	14.0D	260.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2023.0E	2023.0	217.0D	54.0			QL=4 ST=1 TYP=3
	280	CUBA	49	GB	2023.3	2029.4	19.3	11664.0D			
	410	PALE	49	GB	2027.0E	2029.0	6.0D	2400.0			QL=4 ST=2 TYP=6
	15000	CUBA	30	PBI	2034.1		25.9	59.0	29.0		12L
	15000	CUBA	45	C	2039.1	2041.7	5.6	84.0	20.0		18L
	245	PALE	49	GB	2041.0E	2043.0	2.0D	990.0			QL=4 ST=2 TYP=6
	9500	CUBA	2	S/F	2159.5	2200.5	3.0	23.0	11.0		
	17000	NOBE	8	S	2200.2	2200.3	0.2	52.0			L,80,35GHz:0
	15000	CUBA	1	S	2200.3	2200.4	0.7	67.0	33.0		32L
	2695	SGMR	8	S	2217.0E	2217.0	U	23.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2218.0E	2218.0	1.0D	130.0			QL=4 ST=2 TYP=3
	15400	LEAR	49	GB	2336.0E	2339.0	16.0D	2000.0			QL=2 ST=2 TYP=7
	8800	LEAR	49	GB	2336.0E	2339.0	15.0D	640.0			QL=2 ST=2 TYP=7
	245	LEAR	49	GB	2336.0E	2337.0	23.0D	1900.0			QL=4 ST=2 TYP=7
	17000	NOBE	45	C	2336.4	2339.5	11.0	2090.0			L
	35000	NOBE	45	C	2336.4	2339.5	11.0	5030.0			L
	80000	NOBE	45	C	2336.4	2339.5	11.0	840.0			
	1415	LEAR	49	GB	2337.0E	2339.0	7.0D	310.0			QL=4 ST=2 TYP=7
	610	LEAR	49	GB	2337.0E	2339.0	8.0D	1500.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	2337.0E	2337.0	9.0D	13000.0			QL=4 ST=2 TYP=7
	2695	LEAR	49	GB	2337.0E	2339.0	6.0D	410.0			QL=4 ST=2 TYP=7
	4995	LEAR	4	S/F	2337.0E	2339.0	9.0D	230.0			QL=2 ST=2 TYP=3
	8800	PALE	49	GB	2337.0E	2339.0	9.0D	690.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	2337.0E	2339.0	7.0D	840.0			QL=4 ST=2 TYP=7
	1415	PALE	49	GB	2337.0E	2339.0	5.0D	230.0			QL=4 ST=2 TYP=7
	200	HIRA	6	S	2337.3	2337.3	1.3	20000.0	3000.0		WR
	2695	PENT	3	S	2337.3	2339.4	17.3	326.8	65.0		
	100	HIRA	6	S	2337.4	2337.4	1.3	10800.0			
	500	HIRA	46	C	2337.5	2339.5	21.0	10000.0	200.0		MR
	2695	PALE	49	GB	2338.0E	2339.0	3.0D	260.0			QL=4 ST=2 TYP=7
	35000	NOBE	29	PBI	2347.4E	2347.4	10.0D	45.0			O
	17000	NOBE	29	PBI	2347.4E	2347.4	10.0D	47.0			L
22	100	GORK	44	NS	0436.0E		500.0D		45.0		
	200	GORK	44	NS	0436.0E		500.0D		10.0		
	245	SVTO	44	NS	0509.0E	1507.0	692.0D	380.0			QL=4 ST=2 TYP=1
	40	POTS	44	NS	0553.0E	1156.0U	557.0D	U			
	113	POTS	44	NS	0554.0E	1502.0	552.0D	775.0			
	234	POTS	44	NS	0554.0E	1505.0U	553.0D	90.0			
	204	IZMI	43	NS	0600.0		360.0	90.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	127	TORN	44	NS	0620.0E	1203.2	520.0D	118000.0	710.0		V=1
	430	KRAK	44	NS	0759.0E	1320.3	397.0D	69.0	13.0		
	260	ONDR	44	NS	0830.0E	0837.5	390.0D	695.0			
	245	SGMR	43	NS	1104.0	1316.0	776.0	390.0			QL=4 ST=3 TYP=1
	235	CUBA	44	NS	1312.0E		514.0D		68.0		

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22	280	CUBA	44	NS	1312.0E		514.0D		69.0		
	245	PALE	44	NS	1705.0E	0138.0	682.0D	300.0			QL=2 ST=2 TYP=1
	100	HIRA	44	NS	2100.0E	2128.0	700.0D	580.0	200.0		SR
	200	HIRA	44	NS	2100.0E	0749.0	700.0D	100.0	20.0		SR
	410	LEAR	8	S	0004.0E	0005.0	1.0D	130.0			QL=4 ST=2 TYP=3
	200	HIRA	6	S	0045.0	0045.0	1.3	2000.0	500.0		0
	245	LEAR	49	GB	0045.0E	0046.0	2.0D	1800.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0045.0E	0046.0	2.0D	1500.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0046.0E	0046.0	U	48.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0046.0E	0046.0	U	45.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0046.0	0046.2	3.0	65.0	5.0		ML
	245	LEAR	8	S	0055.0E	0056.0	2.0D	70.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0056.0E	0056.0	1.0D	99.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0056.0E	0056.0	1.0D	80.0			QL=4 ST=3 TYP=3
	500	HIRA	7	C	0056.5	0056.8	1.0	135.0	35.0		WR
	15400	LEAR	8	S	0141.0E	0141.0	U	74.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0232.0E	0232.0	U	150.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	0353.0E	0353.0	1.0D	1400.0			QL=2 ST=2 TYP=6
	2840	PEKG	1	S	0404.0	0409.1	8.0	9.4			
	17000	NOBE	4	S/F	0406.8	0408.4	6.0	39.0			L,80,35GHz:0
	245	PALE	49	GB	0407.0E	0409.0	3.0D	1700.0			QL=4 ST=3 TYP=6
	8800	PALE	8	S	0408.0E	0410.0	2.0D	50.0			QL=4 ST=3 TYP=3
	245	LEAR	49	GB	0504.0E	0505.0	1.0D	2700.0			QL=2 ST=2 TYP=6
	15000	KISV	22	GRF	0504.1	0527.3	33.6	15.0			
	650	GORK	1	S	0504.8	0505.1	4.4	12.0			
	950	GORK	1	S	0504.9	0505.1	4.3	4.5			
	245	LEAR	4	S/F	0507.0E	0508.0	4.0D	370.0			QL=2 ST=2 TYP=3
	9300	KISV	22	GRF	0514.0	0527.5	36.6	16.0			
	410	LEAR	8	S	0518.0E	0518.0	1.0D	75.0			QL=2 ST=3 TYP=3
	410	SVTO	8	S	0518.0E	0518.0	1.0D	67.0			QL=2 ST=2 TYP=3
	9100	GORK	23	GRF	0551.0U	0648.0	429.0D	30.0			
	950	GORK	21	GRF	0552.9	0554.8	16.4	5.0			
	2850	CRIM	21	GRF	0553.0	0606.0	92.0	15.0			
	2950	GORK	21	GRF	0553.6	0848.6	375.0	34.0			
	650	GORK	21	GRF	0554.0E	0554.8	24.0D	5.0			
	2840	PEKG	46	C	0556.0	0604.8	25.0	75.1			
	245	LEAR	8	S	0601.0E	0601.0	U	250.0			QL=2 ST=2 TYP=3
	9300	KISV	45	C	0601.9	0604.3	8.5	30.0			
	9300	KISV	45	C	0601.9	0602.8		13.0			
	2695	LEAR	4	S/F	0602.0E	0604.0	4.0D	77.0			QL=2 ST=2 TYP=3
	3013	IZMI	7	C	0602.0	0604.5	10.0	40.0			
	9100	GORK	2	S/F	0602.1U	0604.2	4.6D	25.0			
	2850	CRIM	4	S/F	0602.3	0604.2	4.0	71.0	20.0		
	5900	KISV	45	C	0602.3	0604.3	5.7	33.0			
	15000	KISV	45	C	0602.3	0604.3	5.5	16.0			
	5900	KISV	45	C	0602.3	0604.6		31.0			
	15000	KISV	45	C	0602.3	0602.8		11.0			
	2950	GORK	4	S/F	0602.4	0604.3	3.8	50.0			
	950	GORK	40	F	0602.5	0604.6	2.2	30.0			
	610	LEAR	8	S	0603.0E	0604.0	1.0D	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0603.0E	0604.0	2.0D	36.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0603.0E	0604.0	2.0D	64.0			QL=4 ST=2 TYP=3
	650	GORK	4	S/F	0603.5	0604.3	1.2	1120.0			
	8800	LEAR	8	S	0604.0E	0604.0	U	24.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0604.0E	0604.0	U	19.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0604.0E	0604.0	U	42.0			QL=4 ST=2 TYP=3
	200	GORK	46	C	0610.3	0611.1		900.0			
	200	GORK	46	C	0610.3	0610.9	1.7	1100.0			
	204	IZMI	41	F	0611.0	0611.2	1.0	400.0			
	2840	PEKG	1	S	0622.0	0623.4	11.0	7.5			
	9300	KISV	23	GRF	0625.8	0634.8	37.2	15.0			
	245	LEAR	49	GB	0633.0E	0634.0	5.0D	6000.0			QL=2 ST=2 TYP=6
	204	IZMI	42	SER	0633.0	0646.0	32.0	4200.0			
	9100	GORK	46	C	0633.2	0638.3	14.8	25.0			
	9100	GORK	46	C	0633.2	0639.8		20.0			
	650	GORK	46	C	0633.7	0634.2	7.5	15.0			
	650	GORK	46	C	0633.7	0638.6		22.0			
	950	GORK	46	C	0633.8	0635.1	6.7	42.0			
	200	GORK	46	C	0633.8	0638.3		4900.0			

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

MARCH 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
22	950	GORK	46	C	0633.8	0638.7		12.0			
	200	GORK	46	C	0633.8	0634.9	5.2	2100.0			
	200	HIRA	42	SER	0634.0	0638.0	5.3	3000.0			WR
	15400	LEAR	4	S/F	0634.0E	0637.0	8.0D	70.0			QL=4 ST=2 TYP=5
	9300	KISV	45	C	0636.0	0638.4	7.0	32.0			
	5900	KISV	2	S/F	0636.3	0638.4	6.5	11.0			
	15000	KISV	45	C	0636.9	0637.3	12.8	49.0			
	15000	KISV	45	C	0636.9	0638.5		40.0			
	410	LEAR	8	S	0637.0E	0637.0	U	120.0			QL=2 ST=2 TYP=3
	2840	PEKG	2	S/F	0637.0	0638.4	2.5	31.6			
	234	POTS	42	SER	0637.1	0638.0	1.9	3500.0			
	113	POTS	4	S/F	0637.5	0638.6	1.5	1000.0			
	2850	CRIM	40	F	0637.8	0738.1		46.0			
	2950	GORK	1	S	0637.9	0638.3	1.1	20.0			
	8800	LEAR	8	S	0638.0E	0638.0	U	19.0			QL=4 ST=2 TYP=3
	100	GORK	46	C	0638.1	0638.4	1.0	510.0			
	100	GORK	46	C	0638.1	0638.7		1200.0			
	245	LEAR	49	GB	0645.0E	0645.0	U	7300.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0645.0E	0645.0	U	6300.0			QL=2 ST=2 TYP=6
	9300	KISV	2	S/F	0645.3	0645.6	3.7	12.0			
	2850	CRIM	1	S	0653.0	0655.0	33.0	8.0	2.0		
	9300	KISV	2	S/F	0653.0	0655.1	3.3	23.0			
	9100	GORK	2	S/F	0653.4	0655.0	1.9	20.0			
	5900	KISV	2	S/F	0653.4	0655.1	4.8	25.0			
	650	GORK	46	C	0653.8	0654.1	1.6	37.0			
	650	GORK	46	C	0653.8	0654.7		26.0			
	950	GORK	2	S/F	0653.8	0654.9	1.6	6.0			
	2950	GORK	1	S	0654.0	0655.0	1.4	8.3			
	245	LEAR	49	GB	0701.0E	0701.0	3.0D	5900.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0701.0E	0701.0	1.0D	72.0			QL=2 ST=2 TYP=3
	234	POTS	4	S/F	0701.5	0701.6	0.7	3100.0			
	650	GORK	20	GRF	0712.2	0723.5	68.1	4.0			
	9300	KISV	22	GRF	0713.6	0722.7	17.1	17.0			
	950	GORK	20	GRF	0717.2	0720.7	17.0	5.0			
	2950	GORK	1	S	0718.3	0718.8	1.1	3.8			
	245	LEAR	8	S	0742.0E	0742.0	U	220.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	0748.0E	0749.0	1.0D	650.0			QL=2 ST=2 TYP=6
	245	LEAR	8	S	0752.0E	0752.0	U	250.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0756.0E	0756.0	1.0D	230.0			QL=2 ST=2 TYP=3
	2950	GORK	1	S	0808.8	0809.6	1.8	6.4			
	9300	KISV	23	GRF	0809.0	0825.0	75.7	21.0			
	15000	KISV	23	GRF	0811.2	0825.0	72.8	36.0			
	9100	GORK	2	S/F	0822.6	0824.9	8.1	12.0			
	536	ONDR	49	GB	0827.3	0838.9	56.5	189.0			
	245	LEAR	8	S	0828.0E	0828.0	1.0D	300.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0833.0E	0833.0	U	4500.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0833.0E	0833.0	U	4000.0			QL=2 ST=2 TYP=6
	950	GORK	1	S	0833.0	0833.6	1.2	4.0			
	234	POTS	42	SER	0833.1	0837.3	17.9	65000.0D			
	650	GORK	1	S	0833.4	0833.6	0.8	1.5			
	15000	KISV	4	S/F	0835.2	0837.4	8.3	277.0			
	113	POTS	42	SER	0835.6	0847.5	14.9	3500.0D			
	1470	POTS	45	C	0835.9	0838.0	50.1	1500.0			
	810	KRAK	49	GB	0836.0U		40.0D	200.0D	80.0D		
	430	KRAK	49	GB	0836.0		54.0D	160.0D	60.0D		
	950	GORK	30	PBI	0836.0	0851.0		55.0			
	2695	SVTO	49	GB	0836.0E	0837.0	8.0D	870.0			QL=4 ST=2 TYP=6
	3013	IZMI	45	C	0836.0	0837.0	10.0	435.0			
	8800	LEAR	4	S/F	0836.0E	0837.0	17.0D	390.0			QL=4 ST=2 TYP=5
	245	LEAR	49	GB	0836.0E	0837.0	19.0D	11000.0			QL=2 ST=2 TYP=6
	2695	LEAR	49	GB	0836.0E	0837.0	16.0D	1100.0			QL=2 ST=2 TYP=6
	8800	SVTO	4	S/F	0836.0E	0837.0	19.0D	500.0			QL=4 ST=2 TYP=3
	1415	SVTO	49	GB	0836.0E	0838.0	14.0D	1100.0			QL=4 ST=2 TYP=6
	15400	SVTO	49	GB	0836.0E	0837.0	17.0D	1500.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0836.0E	0837.0	15.0D	12000.0			QL=2 ST=2 TYP=6
	1415	LEAR	49	GB	0836.0E	0838.0	21.0D	1300.0			QL=4 ST=2 TYP=6
	15400	LEAR	49	GB	0836.0E	0837.0	22.0D	1600.0			QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0836.0E	0847.0	22.0D	430.0			QL=2 ST=2 TYP=5
	650	GORK	30	PBI	0836.0	0851.0	198.5	75.0			

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

MARCH 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
22	808	ONDR	49	GB	0836.0	0837.2	40.0	1068.0			
	650	GORK	47	GB	0836.0	0838.3		640.0			
	950	GORK	47	GB	0836.0	0838.3		700.0			
	950	GORK	47	GB	0836.0	0837.3	15.0	1140.0			
	650	GORK	47	GB	0836.0	0837.3	15.0	780.0			
	5900	KISV	47	GB	0836.0	0838.4		282.0			
	2950	GORK	4	S/F	0836.0	0837.4	12.5	745.0			
	9300	KISV	47	GB	0836.0	0837.5	8.5	544.0			
	9100	GORK	46	C	0836.0	0837.5	31.5	600.0			
	9500	POTS	45	C	0836.0	0837.5	34.0	500.0			
	5900	KISV	47	GB	0836.0	0837.6	14.6	307.0			
	5900	KISV	29	PBI	0836.0	0850.6	33.1	34.0			
	9100	GORK	46	C	0836.0	0847.8		140.0			
	3000	POTS	45	C	0836.0E	0837.9U	29.0D	1200.0			
	2850	CRIM	47	GB	0836.1	0838.0	26.0	900.0	300.0		
	200	GORK	46	C	0836.1	0850.1		500.0			
	200	GORK	46	C	0836.1	0847.4		310.0			
	200	GORK	46	C	0836.1	0837.4	14.9	33000.0			
	204	IZMI	45	C	0836.2	0838.0	3.0	38000.0	12.0		
	600	HUMN	4	S/F	0836.5	0839.0	57.5	219.0	43.0		
	100	GORK	46	C	0836.8	0847.3		6000.0			
	100	GORK	46	C	0836.8	0850.3		1600.0			
	100	GORK	46	C	0836.8	0838.4	15.3	23000.0			
	4995	SVTO	4	S/F	0837.0E	0837.0	11.0D	280.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0837.0E	0847.0	15.0D	370.0			QL=4 ST=2 TYP=5
	40	POTS	41	F	0837.5E	0849.0U	15.0D	U			
	204	IZMI	42	SER	0846.0	0850.5	6.0	900.0			
	950	GORK	2	S/F	0903.7	0904.0	0.5	19.0			
	650	GORK	2	S/F	0903.8	0904.0	0.4	32.0			
	204	IZMI	41	F	0910.0	0912.3	8.0	5700.0			
	950	GORK	4	S/F	0910.7	0912.1	2.5	170.0			
	650	GORK	4	S/F	0910.7	0912.3	2.6	108.0			
	245	LEAR	49	GB	0911.0E	0912.0	2.0D	1800.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0911.0E	0912.0	2.0D	1600.0			QL=2 ST=2 TYP=6
	234	POTS	42	SER	0911.1	0916.0	14.3	4100.0			
	40	POTS	42	SER	0911.2	0916.0	13.8	U			
	113	POTS	42	SER	0911.2	0912.5U	13.8	3500.0D			
	100	GORK	41	F	0911.5	0912.2	13.5	3100.0			
	100	GORK	41	F	0911.5	0916.3		2500.0			
	100	GORK	41	F	0911.5	0922.7		3000.0			
	1415	LEAR	8	S	0912.0E	0912.0	U	49.0			QL=4 ST=2 TYP=3
	410	LEAR	49	GB	0912.0E	0912.0	1.0D	700.0			QL=2 ST=2 TYP=6
	610	SVTO	8	S	0912.0E	0912.0	U	320.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	0912.0E	0912.0	1.0D	750.0			QL=4 ST=2 TYP=6
	200	GORK	41	F	0912.0	0916.1		5400.0			
	200	GORK	41	F	0912.0	0912.1	4.7	7300.0			
	245	LEAR	49	GB	0915.0E	0916.0	2.0D	2700.0			QL=2 ST=2 TYP=6
	410	LEAR	49	GB	0915.0E	0916.0	1.0D	680.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0915.0E	0916.0	2.0D	2300.0			QL=2 ST=2 TYP=6
	950	GORK	45	C	0915.9	0916.1	0.6	30.0			
	650	GORK	4	S/F	0915.9	0916.1	0.7	95.0			
	950	GORK	45	C	0915.9	0916.3		28.0			
	410	SVTO	49	GB	0916.0E	0916.0	U	850.0			QL=4 ST=2 TYP=6
	3000	POTS	27	RF	0927.0	0930.5	34.0	18.0			
	9500	POTS	29	PBI	0927.0	0933.5	52.0	26.0			
	9100	GORK	22	GRF	0927.0	0933.6	15.0	27.0			
	1470	POTS	27	RF	0927.4	0934.0	48.0	9.0			
	9300	KISV	23	GRF	0927.4	0937.2	43.6	23.0			
	5900	KISV	23	GRF	0927.4	0936.3	17.1	20.0			
	5900	KISV	4	S/F	0929.2	0930.5	6.3	16.0			
	9300	KISV	45	C	0929.8	0933.4	7.2	17.0			
	9300	KISV	45	C	0929.8	0932.6		14.0			
	410	SVTO	8	S	0930.0E	0930.0	1.0D	230.0			QL=4 ST=2 TYP=3
	810	KRAK	8	S	1010.5	1011.0	0.6	40.0			
	430	KRAK	8	S	1010.5	1011.0	0.5	150.0			
	9300	KISV	2	S/F	1021.5	1021.8	8.5	8.0			
	9300	KISV	42	SER	1030.9	1037.7	23.8	14.0			
	5900	KISV	2	S/F	1031.9	1037.7	7.9	9.0			
	9300	KISV	42	SER	1039.0	1051.0		8.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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
22	9300	KISV	42	SER	1039.0	1047.3		5.0			
	3000	POTS	29	PBI	1045.0	1047.4	10.0	14.0			
	3013	IZMI	5	S	1046.0	1047.5	4.0	12.0	6.0		
	2950	GORK	1	S	1046.2	1047.2	1.9	12.0			
	2850	CRIM	1	S	1046.9	1047.2	1.4	12.0	4.0		
	1470	POTS	4	S/F	1055.3	1055.7	1.5	10.0			
	204	IZMI	41	F	1117.5	1117.8	1.0	500.0			
	9300	KISV	29	PBI	1120.5	1127.6	7.7	7.0			
	5900	KISV	4	S/F	1120.5	1121.8	7.1	56.0			
	9300	KISV	4	S/F	1120.5	1121.9	7.1	105.0D			
	15000	KISV	4	S/F	1120.8	1122.1	8.4	285.0			
	8800	SGMR	8	S	1121.0E	1122.0	2.0D	190.0			QL=4 ST=3 TYP=3
	15400	SGMR	8	S	1121.0E	1121.0	1.0D	230.0			QL=4 ST=3 TYP=3
	15400	SVTO	4	S/F	1121.0E	1122.0	3.0D	250.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1121.0E	1122.0	3.0D	190.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	1121.0	1122.1	6.3	215.0			
	245	SGMR	8	S	1129.0E	1130.0	1.0D	89.0			QL=4 ST=2 TYP=3
	100	GORK	41	F	1142.2	1203.1		3100.0			
	100	GORK	41	F	1142.2	1143.2	21.7	1800.0			
	100	GORK	41	F	1142.2	1201.5		2800.0			
	3000	POTS	40	F	1143.0	1157.4	27.0	25.0			
	9100	GORK	46	C	1145.8	1157.3		80.0			
	9100	GORK	46	C	1145.8	1150.9	22.3	27.0			
	33	UPIC	46	C	1146.0		3.1				
	536	ONDR	42	SER	1146.0	1151.0	34.5	62.0			
	9500	POTS	42	SER	1146.0	1157.4	23.0	57.0			
	808	ONDR	42	SER	1146.0	1148.7	19.5	34.0			
	15000	KISV	23	GRF	1146.0	1146.8	15.0	15.0			
	9300	KISV	23	GRF	1146.1	1147.3	24.6	19.0			
	810	KRAK	42	SER	1146.2	1148.1	15.0	38.0			
	950	GORK	41	F	1146.2	1148.3	22.2	30.0			
	5900	KISV	23	GRF	1146.2	1147.4	24.1	17.0			
	2850	CRIM	40	F	1146.2	1148.5	5.0	60.0	20.0		
	950	GORK	41	F	1146.2	1157.5		25.0			
	650	GORK	41	F	1146.2	1148.5	17.5	14.0			
	650	GORK	41	F	1146.2	1157.6		65.0			
	650	GORK	41	F	1146.2	1150.8		30.0			
	950	GORK	41	F	1146.2	1150.9		60.0			
	1470	POTS	40	F	1146.3	1157.4	21.8	59.0			
	600	HUMN	2	S/F	1147.0	1149.0	3.0	8.0	4.0		
	204	IZMI	42	SER	1147.0	1157.3	13.0	14.0			
	15000	KISV	4	S/F	1147.2	1148.3	5.7	60.0			
	1415	SGMR	8	S	1148.0E	1148.0	1.0D	46.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1148.0E	1148.0	1.0D	68.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	1148.2	1156.4		16.0			
	2950	GORK	46	C	1148.2	1207.4		11.0			
	2950	GORK	46	C	1148.2	1201.6		10.0			
	2950	GORK	46	C	1148.2	1202.8		11.0			
	2950	GORK	46	C	1148.2	1150.9		6.0			
	2950	GORK	46	C	1148.2	1148.9	20.3	23.0			
	9300	KISV	2	S/F	1149.3	1150.8	3.0	12.0			
	5900	KISV	4	S/F	1149.4	1151.0	4.7	23.0			
	1415	SGMR	8	S	1150.0E	1150.0	1.0D	59.0			QL=2 ST=3 TYP=3
	610	SGMR	4	S/F	1150.0E	1150.0	3.0D	50.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	1150.0E	1150.0	1.0D	64.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1150.0E	1150.0	4.0D	62.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1150.0E	1150.0	1.0D	39.0			QL=4 ST=2 TYP=3
	430	KRAK	8	S	1150.7	1151.0	0.6	79.0			
	600	HUMN	2	S/F	1151.0	1151.2	1.0	33.0	15.0		
	234	POTS	42	SER	1155.0	1203.2	9.1	2100.0			
	5900	KISV	46	C	1155.3	1157.3	9.0	98.0			
	5900	KISV	46	C	1155.3	1201.6		32.0			
	5900	KISV	46	C	1155.3	1202.8		34.0			
	200	GORK	41	F	1155.4	1202.2	8.6	290.0			
	200	GORK	41	F	1155.4	1203.2		590.0			
	200	GORK	41	F	1155.4	1158.7	8.6	520.0			
	204	IZMI	41	F	1156.0	1159.0	4.0	900.0			
	4995	SVTO	8	S	1156.0E	1157.0	1.0D	73.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1156.0E	1157.0	1.0D	14.0			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

MARCH 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
22	15400	SVTO	8	S	1156.0E	1157.0	1.0D	35.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1156.0E	1157.0	1.0D	65.0			QL=4 ST=2 TYP=3
	2850	CRIM	42	SER	1156.0	1157.3	12.0	16.0	5.0		
	15000	KISV	4	S/F	1156.0	1157.4	4.0	44.0			
	9300	KISV	46	C	1156.1	1157.3	7.9	34.0			
	9300	KISV	46	C	1156.1	1201.5		24.0			
	9300	KISV	46	C	1156.1	1159.6		29.0			
	9300	KISV	46	C	1156.1	1202.8		24.0			
	30	POTS	42	SER	1156.6	1203.3	7.9	18000.0U			
	1415	SGMR	8	S	1157.0E	1157.0	U	62.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	1157.0E	1157.0	U	58.0			QL=4 ST=2 TYP=3
	113	POTS	42	SER	1157.5	1203.4U	6.8	3500.0D			
	245	SGMR	8	S	1158.0E	1159.0	2.0D	440.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	1158.0E	1159.0	1.0D	510.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	1202.0E	1203.0	2.0D	830.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1203.0E	1203.0	U	970.0			QL=2 ST=2 TYP=6
	9300	KISV	2	S/F	1206.9	1207.5	1.5	13.0			
	9300	KISV	22	GRF	1220.4	1228.1	18.7	17.0			
	9400	HUAN	2	S/F	1223.4	1225.2	7.7	6.3	2.8		
	15000	KISV	2	S/F	1226.0	1228.1	5.0	26.0			
	245	SGMR	49	GB	1241.0E	1244.0	3.0D	530.0			QL=2 ST=3 TYP=6
	234	POTS	41	F	1241.3	1244.0	3.8	3000.0			
	200	GORK	41	F	1241.4	1244.0		690.0			
	200	GORK	41	F	1241.4	1242.1	3.4	350.0			
	650	GORK	1	S	1243.2	1244.1	2.1	1.5			
	950	GORK	1	S	1243.4	1244.1	1.6	2.0			
	15000	KISV	2	S/F	1243.4	1243.8	1.6	14.0			
	9400	HUAN	3	S	1311.5	1312.6	4.6	46.1	23.6		
	1470	POTS	4	S/F	1311.5	1312.8	4.5	17.0			
	2800	OTTA	3	S	1311.7	1312.9	4.5	36.1	11.0		
	3000	POTS	4	S/F	1311.8	1312.6	3.2	31.0			
	2850	CRIM	3	S	1311.9	1312.9	4.0	43.0	14.0		
	810	KRAK	42	SER	1312.0	1312.3	1.0	32.0			
	6700	CUBA	2	S/F	1312.2	1312.8	2.3	24.0	12.0		12R
	9500	POTS	42	SER	1312.3	1312.5	1.7	34.0			
	808	ONDR	4	S/F	1312.5	1312.5	1.2	32.0			
	9500	CUBA	2	S/F	1312.5	1312.8	2.0	14.0	7.0		
	9400	HUAN	4	S/F	1338.5	1351.8	17.8	25.2	12.8		
	9500	CUBA	20	GRF	1340.0	1352.0	24.0	26.0	13.0		
	9500	POTS	42	SER	1340.0	1351.8	17.0	28.0			
	245	SGMR	49	GB	1431.0E	1431.0	1.0D	600.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1431.0E	1431.0	1.0D	730.0			QL=2 ST=2 TYP=6
	234	POTS	4	S/F	1431.3	1432.1	0.9	500.0			
	9400	HUAN	22	GRF	1440.8	1506.3U	47.9	8.4	5.2		
	410	SGMR	8	S	1518.0E	1518.0	U	60.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1518.0E	1518.0	2.0D	4600.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1518.0E	1519.0	1.0D	79.0			QL=2 ST=2 TYP=3
	245	SVTO	49	GB	1518.0E	1518.0	U	5300.0			QL=2 ST=2 TYP=6
	15000	CUBA	21	GRF	1544.0	1554.0	59.0	21.0	10.0		37L
	9400	HUAN	21	GRF	1551.6	1609.4	45.0	8.4	5.6		
	9400	HUAN	2	S/F	1603.8	1605.7	3.8	16.8	7.4		
	6700	CUBA	1	S	1605.0E	1605.8	2.0D	17.0			49R
	15000	CUBA	1	S	1705.0U	1705.7	2.0U	26.0D			45L
	6700	CUBA	2	S/F	1733.2	1733.5	0.8	23.0	11.0		11R
	9400	HUAN	23	GRF	1740.9	1813.6	38.7	12.6	5.8		
	2800	OTTA	3	S	1745.3	1747.9	5.2	29.7	9.0		
	9400	HUAN	2	S/F	1745.5	1748.6	9.7	23.1	11.2		
	9500	CUBA	23	GRF	1746.0	1749.0	14.0	17.0	8.0		
	245	PALE	4	S/F	1747.0E	1751.0	4.0D	400.0			QL=2 ST=2 TYP=3
	2695	SGMR	8	S	1747.0E	1747.0	1.0D	27.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1747.0E	1747.0	1.0D	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1747.0E	1748.0	1.0D	230.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1747.2	1747.5	6.8	66.0	33.0		3R
	6700	CUBA	21	GRF	1859.0	1925.0	118.0	36.0	17.0		40R
	9500	CUBA	21	GRF	1859.0	1906.0	196.0D	36.0	18.0		SUNSET
	2800	OTTA	24	R	1902.0	1943.0		17.5	12.0		
	245	SGMR	49	GB	1902.0E	1903.0	9.0D	7900.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	1903.0E	1903.0	8.0D	9100.0			QL=4 ST=3 TYP=7
	9400	HUAN	41	F	1904.4	1916.1		32.5			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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
22	9400	HUAN	41	F	1904.4	1906.6	13.6	33.5	14.8		
	9400	HUAN	41	F	1904.4	1911.7		31.4			
	15400	SGMR	4	S/F	1905.0E	1906.0	3.0D	52.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1905.0E	1905.0	U	33.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1906.0E	1906.0	2.0D	39.0			QL=2 ST=2 TYP=3
	2800	OTTA	3	S	1914.1	1916.1	5.5	35.5	11.0		
	6700	CUBA	2	S/F	1914.9	1916.2	3.2	27.0	13.0		60R
	245	PALE	8	S	1915.0E	1916.0	1.0D	480.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1915.0E	1915.0	1.0D	520.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	1916.0E	1916.0	2.0D	38.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	1916.0E	1916.0	2.0D	62.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1916.0E	1916.0	2.0D	41.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1916.0E	1916.0	U	190.0			QL=2 ST=2 TYP=3
	9400	HUAN	23	GRF	1950.2	2023.5	147.5	48.2	28.4		
	2800	OTTA	47	GB	2000.0	2010.2	58.1	986.0	197.0		
	2695	PALE	49	GB	2001.0E	2010.0	18.0D	940.0			QL=4 ST=2 TYP=7
	9400	HUAN	45	C	2003.0	2015.1U	18.2	266.3	92.6		
	4995	SGMR	49	GB	2004.0E	2009.0	8.0D	2400.0			QL=4 ST=2 TYP=7
	1415	SGMR	49	GB	2004.0E	2010.0	8.0D	310.0			QL=4 ST=2 TYP=7
	15400	SGMR	49	GB	2004.0E	2010.0	8.0D	1500.0			QL=2 ST=2 TYP=7
	8800	SGMR	49	GB	2004.0E	2009.0	8.0D	2400.0			QL=2 ST=2 TYP=7
	2695	SGMR	49	GB	2004.0E	2010.0	8.0D	930.0			QL=4 ST=2 TYP=7
	4995	PALE	49	GB	2004.0E	2009.0	16.0D	2300.0			QL=4 ST=2 TYP=7
	245	SGMR	49	GB	2005.0E	2008.0	4.0D	910.0			QL=2 ST=2 TYP=7
	410	SGMR	49	GB	2005.0E	2009.0	7.0D	9600.0			QL=4 ST=2 TYP=7
	8800	PALE	49	GB	2005.0E	2009.0	14.0D	2900.0			QL=4 ST=2 TYP=7
	6700	CUBA	47	GB	2005.0E	2009.9	46.0D	2030.0			SR
	9500	CUBA	47	GB	2005.5	2038.5		941.0			
	9500	CUBA	47	GB	2005.5	2008.9	22.5	1473.0			
	15000	CUBA	47	GB	2005.6	2008.0U	15.4	4453.0			16L
	610	SGMR	49	GB	2006.0E	2008.0	6.0D	1300.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	2006.0E	2008.0	17.0D	150.0			QL=4 ST=2 TYP=7
	410	PALE	49	GB	2006.0E	2010.0	13.0D	7700.0			QL=4 ST=2 TYP=7
	1415	PALE	49	GB	2006.0E	2010.0	13.0D	370.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	2006.0E	2010.0	20.0D	1300.0			QL=4 ST=2 TYP=7
	280	CUBA	7	C	2007.0	2008.0U	3.7				
	245	PALE	49	GB	2008.0E	2008.0	1.0D	1200.0			QL=2 ST=2 TYP=7
	15000	CUBA	30	PBI	2021.0		36.0	54.0	27.0		11L
	2800	OTTA	3	S	2030.7	2038.6	16.2	151.9	46.0		
	9400	HUAN	45	C	2031.7	2038.8U	17.5	293.5	114.6		
	15000	CUBA	47	GB	2032.1	2038.7	15.2	6550.0			6L
	15400	PALE	49	GB	2033.0E	2038.0	16.0D	1400.0			QL=4 ST=2 TYP=7
	2695	SGMR	4	S/F	2033.0E	2038.0	15.0D	140.0			QL=4 ST=2 TYP=3
	4995	SGMR	49	GB	2033.0E	2038.0	15.0D	680.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	2033.0E	2038.0	15.0D	1600.0			QL=2 ST=2 TYP=6
	8800	SGMR	49	GB	2033.0E	2038.0	15.0D	1300.0			QL=2 ST=2 TYP=6
	2695	PALE	4	S/F	2034.0E	2038.0	8.0D	150.0			QL=4 ST=2 TYP=3
	4995	PALE	49	GB	2034.0E	2038.0	10.0D	630.0			QL=4 ST=2 TYP=6
	8800	PALE	4	S/F	2034.0E	2038.0	10.0D	1600.0			QL=4 ST=2 TYP=5
	610	SGMR	4	S/F	2035.0E	2038.0	13.0D	70.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2036.0E	2037.0	5.0D	69.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2037.0E	2037.0	3.0D	65.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	2037.0E	2038.0	4.0D	64.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2037.0E	2038.0	3.0D	87.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	2103.8	2106.0	9.4	25.2	10.4		
	15400	SGMR	8	S	2105.0E	2106.0	1.0D	49.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	2106.0E	2106.0	U	59.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	2112.0E	2113.0	3.0D	1200.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	2112.0E	2113.0	2.0D	730.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2112.0E	2113.0	4.0D	3200.0			QL=2 ST=2 TYP=6
	500	HIRA	42	SER	2112.7	2113.0	6.5	1000.0			WL
	410	PALE	49	GB	2113.0E	2113.0	6.0D	1100.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2113.0E	2113.0	6.0D	3300.0			QL=2 ST=3 TYP=6
	610	PALE	49	GB	2113.0E	2113.0	1.0D	540.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2118.0E	2118.0	1.0D	900.0			QL=2 ST=2 TYP=6
	410	SGMR	8	S	2118.0E	2118.0	1.0D	100.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2203.0E	2203.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2203.0E	2203.0	1.0D	500.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	2203.0E	2203.0	1.0D	460.0			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

MARCH 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
22	9400	HUAN	45	C	2239.1	2243.3U	10.2	266.3	104.6		
	35000	NOBE	47	GB	2242.1		21.0	200000.0D			L
	17000	NOBE	47	GB	2242.1	2244.2	21.0	87530.0			L
	80000	NOBE	47	GB	2242.1	2244.6	21.0	6760.0			O,BAD WEATHER
	15000	CUBA	47	GB	2242.1	2244.8	20.0D	16254.0D			12L SUNSET
	8800	LEAR	49	GB	2243.0E	2244.0	4.0D	37000.0			QL=4 ST=2 TYP=7
	15400	LEAR	49	GB	2243.0E	2244.0	3.0D	13000.0			QL=4 ST=2 TYP=7
	610	LEAR	49	GB	2243.0E	2245.0	14.0D	9900.0			QL=4 ST=2 TYP=7
	2695	LEAR	49	GB	2243.0E	2244.0	65.0D	36000.0			QL=2 ST=2 TYP=7
	245	LEAR	49	GB	2243.0E	2243.0	65.0D				QL=2 ST=3 TYP=7
	410	LEAR	49	GB	2243.0E	2244.0	65.0D	10000.0			QL=2 ST=2 TYP=7
	4995	LEAR	49	GB	2243.0E	2244.0	65.0D	31000.0			QL=4 ST=2 TYP=7
	1415	LEAR	49	GB	2243.0E	2244.0	65.0D	18000.0			QL=4 ST=2 TYP=7
	6700	CUBA	47	GB	2243.0	2244.5	23.0	1216.0			SR SUNSET
	2695	PENT	47	GB	2243.2	2244.5	98.0	34540.0	6908.0		
	100	HIRA	48	C	2243.3	2243.3U	8.0	16000.0D	4000.0U		
	200	HIRA	48	C	2243.3	2243.3U	32.0	70000.0D	2000.0U		O
	500	HIRA	48	C	2243.5	2246.5	76.0	5800.0	400.0		WL
	17000	NOBE	1	S	2331.7	2332.1	1.0	58.0			L,80,35GHz:O
23	245	LEAR	44	NS	0114.0E	0138.0	543.0D	240.0			QL=2 ST=2 TYP=1
	100	GORK	44	NS	0434.0E		420.0D		20.0		
	200	GORK	44	NS	0434.0E		430.0D		10.0		
	100	GORK	44	NS	0443.0E		410.0D		70.0		
	204	IZMI	43	NS	0600.0		360.0	300.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	127	TORN	44	NS	0620.0E		520.0D		660.0		V=1
	410	SVTO	44	NS	0634.0E	0634.0	110.0D	99.0			QL=4 ST=2 TYP=1
	40	POTS	44	NS	0640.0E	1326.0	525.0D	U			
	113	POTS	44	NS	0640.0E	1452.0	520.0D	800.0			
	234	POTS	44	NS	0640.0E	1234.5	536.0D	800.0			
	245	SVTO	44	NS	0822.0E	0854.0	500.0D	500.0			QL=4 ST=2 TYP=1
	260	ONDR	44	NS	0830.0E	1232.0	390.0D	1055.0U			
	430	KRAK	44	NS	0831.5E	0927.0	369.0D	146.0	14.0		
	245	SGMR	44	NS	1102.0E	1223.0	695.0D	610.0			QL=2 ST=2 TYP=1
	610	SVTO	44	NS	1125.0E	1132.0	8.0D	95.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	1253.0E	1253.0	229.0D	110.0			QL=4 ST=2 TYP=1
	410	PALE	44	NS	1650.0E	1704.0	180.0D	270.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	2007.0E		530.0D		201.0		
	200	HIRA	44	NS	2100.0E	2216.0	700.0D	800.0	100.0		SR
	100	HIRA	44	NS	2100.0E	2125.0	700.0D	800.0	650.0		SR
	2840	PEKG	28	PRE	0134.0	0134.0	73.0	82.6			
	1415	LEAR	4	S/F	0138.0E	0139.0	4.0D	120.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0138.0E	0138.0	1.0D	300.0			QL=2 ST=2 TYP=3
	1415	PALE	8	S	0138.0E	0139.0	2.0D	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	46	C	0143.0	0151.9	16.0	183.4			
	4995	LEAR	8	S	0145.0E	0146.0	2.0D	21.0			QL=2 ST=2 TYP=3
	200	HIRA	45	C	0145.3	0202.3	64.0	300.0	100.0		WL
	2695	LEAR	8	S	0147.0E	0148.0	1.0D	18.0			QL=2 ST=2 TYP=3
	245	LEAR	20	GRF	0147.0E	0203.0	16.0D	300.0			QL=2 ST=2 TYP=2
	1415	LEAR	49	GB	0147.0E	0152.0	16.0D	890.0			QL=2 ST=2 TYP=7
	4995	LEAR	4	S/F	0147.0E	0151.0	16.0D	260.0			QL=2 ST=2 TYP=3
	8800	PALE	4	S/F	0147.0E	0151.0	17.0D	460.0			QL=4 ST=2 TYP=5
	8800	LEAR	8	S	0148.0E	0148.0	U	22.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0150.0E	0152.0	7.0D	140.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0150.0E	0151.0	13.0D	210.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0150.0E	0152.0	10.0D	320.0			QL=4 ST=2 TYP=3
	17000	NOBE	4	S/F	0150.7	0151.5	5.0	147.0			O,BAD WEATHER
	1415	PALE	49	GB	0151.0E	0152.0	5.0D	920.0			QL=4 ST=2 TYP=6
	15400	PALE	4	S/F	0151.0E	0151.0	4.0D	190.0			QL=4 ST=2 TYP=3
	500	HIRA	48	C	0151.0	0350.7	229.0	3000.0	200.0		SR
	610	LEAR	4	S/F	0152.0E	0155.0	4.0D	200.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0153.0E	0154.0	2.0D	45.0			QL=2 ST=2 TYP=3
	610	PALE	4	S/F	0153.0E	0155.0	3.0D	150.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0203.0E	0206.0	6.0D	150.0			QL=2 ST=2 TYP=3
	1415	PALE	8	S	0207.0E	0207.0	1.0D	120.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0210.0E	0212.0	3.0D	93.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0216.0E	0217.0	2.0D	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0219.0E	0220.0	2.0D	44.0			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

MARCH 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	1415	PALE	4	S/F	0220.0E	0222.0	3.0D	150.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0222.0E	0222.0	1.0D	120.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	0225.0E	0345.0	122.0D	7300.0			QL=4 ST=2 TYP=7
	410	LEAR	8	S	0226.0E	0227.0	2.0D	31.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0228.0E	0242.0	118.0D	1500.0			QL=2 ST=2 TYP=7
	410	LEAR	49	GB	0228.0E	0349.0	118.0D	7600.0			QL=2 ST=2 TYP=7
	610	LEAR	49	GB	0228.0E	0345.0	118.0D	9700.0			QL=4 ST=2 TYP=7
	1415	LEAR	4	S/F	0229.0E	0231.0	7.0D	470.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0229.0E	0229.0	U	240.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0232.0E	0232.0	1288.0D	460.0			QL=4 ST=1 TYP=3
	245	PALE	49	GB	0236.0E	0242.0	14.0D	1200.0			QL=2 ST=2 TYP=6
	410	PALE	49	GB	0240.0E	0349.0	97.0D	5300.0			QL=4 ST=2 TYP=7
	1415	PALE	49	GB	0242.0E	0243.0	105.0D	800.0			QL=4 ST=2 TYP=7
	2695	LEAR	20	GRF	0245.0E	0302.0	101.0D	230.0			QL=4 ST=2 TYP=2
	2840	PEKG	45	C	0247.0	0337.0	107.0	283.3			
	2840	PEKG	46	C	0247.0	0300.8		298.3			
	4995	LEAR	20	GRF	0248.0E	0300.0	98.0D	110.0			QL=4 ST=2 TYP=2
	4995	PALE	20	GRF	0249.0E	0256.0	29.0D	130.0			QL=4 ST=2 TYP=2
	2695	PALE	20	GRF	0250.0E	0300.0	97.0D	200.0			QL=4 ST=2 TYP=2
	8800	LEAR	8	S	0251.0E	0252.0	1.0D	19.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0313.0E	0313.0	U	44.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0333.0E	0335.0	2.0D	24.0			QL=4 ST=2 TYP=3
	2840	PEKG	29	PBI	0426.0		174.0	157.4			
	9100	GORK	23	GRF	0433.0E	0512.4	394.9D	133.0			
	950	GORK	21	GRF	0436.0E	0448.0	63.9D	32.0			
	650	GORK	21	GRF	0436.0E	0447.0	93.5D	80.0			
	2850	CRIM	40	F	0500.0E	0500.0U	260.0D	73.0U			
	100	GORK	41	F	0506.5	0512.0		1000.0			
	100	GORK	41	F	0506.5	0509.1	14.7	640.0			
	100	GORK	41	F	0506.5	0516.9		640.0			
	410	SVTO	4	S/F	0508.0E	0512.0	7.0D	180.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	0508.0E	0512.0	9.0D	240.0			QL=2 ST=2 TYP=3
	610	SVTO	4	S/F	0508.0E	0512.0	10.0D	120.0			QL=2 ST=2 TYP=3
	15400	SVTO	20	GRF	0508.0E	0529.0	36.0D	92.0			QL=2 ST=2 TYP=2
	2695	SVTO	20	GRF	0508.0E	0516.0	36.0D	190.0			QL=2 ST=2 TYP=2
	4995	SVTO	20	GRF	0508.0E	0516.0	36.0D	230.0			QL=2 ST=2 TYP=2
	8800	SVTO	4	S/F	0508.0E	0513.0	30.0D	140.0			QL=2 ST=2 TYP=5
	1415	SVTO	4	S/F	0508.0E	0512.0	36.0D	95.0			QL=2 ST=2 TYP=3
	200	GORK	41	F	0508.1	0509.1	4.9	200.0			
	200	GORK	41	F	0508.1	0512.7		100.0			
	950	GORK	2	S/F	0508.9	0509.8	1.0	15.0			
	5900	KISV	4	S/F	0509.1	0512.8	6.8	16.0			
	9300	KISV	2	S/F	0509.3	0513.3	9.9	18.0			
	650	GORK	2	S/F	0511.7	0512.0	2.0	70.0			
	950	GORK	4	S/F	0511.7	0512.0	1.1	45.0			
	610	LEAR	8	S	0512.0E	0512.0	U	140.0			QL=4 ST=2 TYP=3
	2950	GORK	21	GRF	0530.0E	0536.0	366.0D	100.0			
	5900	KISV	2	S/F	0559.0	0601.0	3.8	14.0			
	9300	KISV	2	S/F	0600.0	0600.6	2.8	9.0			
	410	SVTO	8	S	0628.0E	0628.0	1.0D	95.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0633.0E	0645.0	14.0D	420.0			QL=2 ST=2 TYP=5
	610	LEAR	8	S	0634.0E	0634.0	U	210.0			QL=4 ST=2 TYP=3
	600	HUMN	2	S/F	0634.3	0634.9	1.4	86.0	28.0		
	410	SVTO	49	GB	0644.0E	0645.0	2.0D	570.0			QL=2 ST=2 TYP=6
	9300	KISV	4	S/F	0649.3	0650.3	4.2	100.0			
	9100	GORK	2	S/F	0649.6	0650.4	1.8	80.0			
	17000	NOBE	1	S	0649.7	0650.4	1.5	38.0			L,BAD WEATHER
	15000	KISV	4	S/F	0649.8	0650.3	1.6	104.0			
	5900	KISV	2	S/F	0649.8	0650.4	1.7	61.0			
	410	LEAR	8	S	0650.0E	0650.0	U	28.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0650.0E	0651.0	1.0D	97.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0650.0E	0650.0	1.0D	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0650.0E	0650.0	U	26.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0650.0E	0650.0	U	26.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0650.0E	0650.0	U	57.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0650.0E	0651.0	1.0D	85.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0650.0E	0650.0	1.0D	140.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0650.0E	0650.0	U	37.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	0650.0E	0650.0	1.0D	55.0			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

MARCH 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	15400	SVTO	8	S	0650.0E	0650.0	1.0D	64.0			QL=2 ST=2 TYP=3
	2950	GORK	1	S	0650.0	0650.3	1.3	16.0			
	950	GORK	3	S	0650.0	0650.4	1.5	14.0			
	2850	CRIM	1	S	0650.0	0650.5	1.0	18.0	5.0		
	3013	IZMI	5	S	0650.0	0650.5	1.5	10.0	5.0		
	2840	PEKG	1	S	0650.0	0650.6	2.0	15.6			
	650	GORK	4	S/F	0650.2	0651.0	1.3	80.0			
	600	HUMN	2	S/F	0650.6	0651.5	1.3	39.0	9.0		
	410	LEAR	4	S/F	0658.0E	0700.0	5.0D	110.0			QL=2 ST=2 TYP=3
	410	SVTO	4	S/F	0659.0E	0705.0	7.0D	170.0			QL=2 ST=2 TYP=5
	9300	KISV	2	S/F	0704.9	0706.7	4.0	7.0			
	650	GORK	21	GRF	0714.2	0726.7	28.5	4.0			
	950	GORK	20	GRF	0715.9	0727.2	17.1	4.0			
	410	LEAR	8	S	0726.0E	0726.0	2.0D	59.0			QL=2 ST=2 TYP=3
	3000	POTS	4	S/F	0726.5	0728.7	4.1	10.0			
	650	GORK	46	C	0726.7	0727.2	3.5	20.0			
	650	GORK	46	C	0726.7	0728.6		16.0			
	5900	KISV	4	S/F	0726.8	0728.3	4.2	55.0			
	610	LEAR	8	S	0727.0E	0727.0	U	31.0			QL=4 ST=2 TYP=3
	2850	CRIM	1	S	0727.0	0728.5	3.0	10.0	3.0		
	2950	GORK	1	S	0727.0	0728.5	3.5	12.0			
	9100	GORK	3	S	0727.0	0728.5	4.4	50.0			
	600	HUMN	2	S/F	0727.0	0727.5	5.5	10.0	2.0		
	3013	IZMI	5	S	0727.0	0728.5	4.5	10.0	5.0		
	15000	KISV	2	S/F	0727.1	0728.6	3.6	21.0			
	17000	NOBE	1	S	0727.3	0728.3	3.0	22.0			0,80,35GHz:0
	9500	POTS	3	S	0727.5	0728.5	3.2	45.0			
	4995	LEAR	8	S	0728.0E	0728.0	1.0D	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0728.0E	0728.0	1.0D	28.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0743.0E	0744.0	1.0D	240.0			QL=4 ST=2 TYP=3
	9300	KISV	2	S/F	0828.4	0829.0	2.3	5.0			
	245	LEAR	20	GRF	0839.0E	0854.0	23.0D	110.0			QL=2 ST=2 TYP=2
	245	LEAR	4	S/F	0912.0E	0916.0	6.0D	99.0			QL=2 ST=2 TYP=3
	9300	KISV	23	GRF	0912.4	0949.5	48.4	16.0			
	9500	POTS	40	F	0912.5	0929.0	37.5	70.0			
	15000	KISV	45	C	0918.2	0927.3	17.6	176.0			
	15000	KISV	45	C	0918.2	0923.4		51.0			
	9300	KISV	45	C	0922.8	0929.0		98.0			
	9100	GORK	46	C	0922.8	0927.1	18.4	82.0			
	9300	KISV	45	C	0922.8	0927.3	19.9	102.0			
	9100	GORK	46	C	0922.8	0928.8		73.0			
	15400	LEAR	8	S	0923.0E	0923.0	U	36.0			QL=4 ST=2 TYP=3
	100	GORK	46	C	0924.0	0927.1	6.0	4900.0			
	100	GORK	46	C	0924.0	0927.4		5800.0			
	100	GORK	46	C	0924.0	0929.8		510.0			
	245	LEAR	49	GB	0925.0E	0927.0	6.0D	630.0			QL=2 ST=2 TYP=6
	650	GORK	21	GRF	0925.6	0930.0	14.8	4.0			
	950	GORK	21	GRF	0925.6	0930.0	14.8	3.0			
	410	LEAR	8	S	0926.0E	0927.0	1.0D	170.0			QL=2 ST=2 TYP=3
	234	POTS	4	S/F	0926.2	0927.0	1.5	7000.0			
	1470	POTS	4	S/F	0926.2	0927.1	4.5	66.0			
	3000	POTS	42	SER	0926.5U	0929.0U	24.0U	17.0			
	536	ONDR	4	S/F	0926.5	0926.8	2.5	64.0			
	200	GORK	46	C	0926.7	0929.4		280.0			
	200	GORK	46	C	0926.7	0927.4	3.3	1600.0			
	200	GORK	46	C	0926.7	0927.7		1700.0			
	2950	GORK	46	C	0926.8	0929.1		22.0			
	2950	GORK	46	C	0926.8	0927.3	4.2	26.0			
	600	HUMN	2	S/F	0926.8	0927.4	4.3	5.0	2.0		
	950	GORK	2	S/F	0926.8	0927.5	3.2	15.0			
	113	POTS	4	S/F	0926.9	0927.1	1.2	7000.0D			
	40	POTS	4	S/F	0926.9	0927.2	1.2	U			
	2850	CRIM	7	C	0927.0	0929.0		22.0			
	4995	LEAR	4	S/F	0927.0E	0928.0	4.0D	40.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0927.0E	0927.0	4.0D	29.0			QL=2 ST=2 TYP=3
	2850	CRIM	7	C	0927.0	0927.1	3.5	22.0	7.0		
	3013	IZMI	41	F	0927.0	0927.1	5.0	26.0			
	5900	KISV	45	C	0927.0	0930.1		335.0			
	5900	KISV	45	C	0927.0	0929.2	9.4	387.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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	650	GORK	3	S	0927.0	0927.5	3.0	13.0			
	204	IZMI	41	F	0927.5	0928.5	3.0	1300.0			
	8800	LEAR	8	S	0928.0E	0928.0	U	20.0			QL=4 ST=2 TYP=3
	650	GORK	1	S	0934.5	0934.8	0.7	3.0			
	950	GORK	1	S	0934.5	0934.8	0.6	2.0			
	245	LEAR	4	S/F	0936.0E	0939.0	5.0D	88.0			QL=2 ST=2 TYP=3
	2950	GORK	2	S/F	0937.6	0938.5	1.8	7.7			
	4995	LEAR	8	S	0948.0E	0949.0	1.0D	32.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0948.0E	0952.0	5.0D	100.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0948.0E	0948.0	1.0D	80.0			QL=4 ST=2 TYP=3
	2850	CRIM	40	F	1042.1	1043.5		13.0			
	950	GORK	41	F	1042.3	1044.2		30.0			
	950	GORK	41	F	1042.3	1043.5	11.7	50.0			
	650	GORK	41	F	1042.5	1044.2U		30.0			
	650	GORK	41	F	1042.5	1043.5U	11.5	110.0D			
	808	ONDR	42	SER	1043.5	1044.0	15.0	30.0			
	100	GORK	41	F	1048.7	1050.3	5.4	9500.0			
	100	GORK	41	F	1048.7	1053.9		1700.0			
	536	ONDR	48	C	1049.0	1049.9	6.0	1084.0			
	600	HUMN	2	S/F	1049.4	1050.1	2.9	50.0	14.0		
	204	IZMI	5	S	1049.5	1049.7	0.8	3200.0			
	200	GORK	41	F	1049.9	1050.2	4.4	2500.0			
	200	GORK	41	F	1049.9	1053.9		220.0			
	410	SVTO	8	S	1050.0E	1050.0	U	500.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1050.0E	1050.0	U	350.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1050.0E	1050.0	U	1500.0			QL=2 ST=2 TYP=6
	9500	POTS	23	GRF	1055.0	1123.4	55.0	25.0			
	536	ONDR	49	GB	1113.0	1123.0	24.0	89.0			
	9300	KISV	45	C	1114.2	1123.4	11.8	26.0			
	9300	KISV	45	C	1114.2	1115.7		16.0			
	3000	POTS	42	SER	1115.0	1123.2	30.0	26.0			
	15000	KISV	2	S/F	1115.3	1115.8	2.4	33.0			
	9100	GORK	46	C	1115.4	1123.3		27.0			
	9100	GORK	46	C	1115.4	1115.8	11.6	15.0			
	650	GORK	46	C	1115.8	1131.4		84.0			
	650	GORK	46	C	1115.8	1125.7	19.6	45.0			
	950	GORK	22	GRF	1115.8	1129.8	19.2	12.0			
	1470	POTS	40	F	1116.8	1130.0	18.2	13.0			
	600	HUMN	45	C	1117.0	1131.0	18.0	51.0	10.0		
	810	KRAK	41	F	1118.0	1131.4	16.5	21.0	6.0		
	2950	GORK	3	S	1121.4	1123.3	3.6	26.0			
	3013	IZMI	5	S	1122.0	1123.4	4.0	21.0	10.0		
	2950	GORK	2	S/F	1129.7	1129.9	5.3	11.5			
	610	SGMR	8	S	1130.0E	1132.0	2.0D	65.0			QL=4 ST=2 TYP=3
	9300	KISV	46	C	1135.3	1139.2	14.3	23.0			
	9300	KISV	46	C	1135.3	1143.6		19.0			
	9300	KISV	46	C	1135.3	1138.6		20.0			
	9300	KISV	47	GB	1225.7	1234.3	25.0	1720.0			
	430	KRAK	49	GB	1226.0E		22.0D	160.0D	40.0D		
	410	SGMR	49	GB	1226.0E	1234.0	13.0D	10000.0			QL=4 ST=2 TYP=7
	9400	HUAN	45	C	1226.4E	1228.7U	28.8D	121.5	54.2		
	1470	POTS	45	C	1226.8	1232.0	15.4	360.0			
	536	ONDR	46	C	1227.5	1228.5U	20.0	1406.0U			
	245	SGMR	49	GB	1228.0E	1231.0	8.0D	4000.0			QL=2 ST=2 TYP=7
	600	HUMN	45	C	1228.0	1235.0	10.5	664.0	179.0		
	410	SVTO	49	GB	1228.0E	1234.0	13.0D	9100.0			QL=2 ST=2 TYP=7
	4995	SGMR	49	GB	1228.0E	1234.0	692.0D	680.0			QL=4 ST=1 TYP=7
	8800	SGMR	49	GB	1228.0E	1234.0	692.0D	1500.0			QL=2 ST=1 TYP=7
	9500	POTS	45	C	1228.0	1234.4	20.5	1000.0			
	3000	POTS	4	S/F	1228.5E	1234.8U	18.5D	119.0			
	40	POTS	42	SER	1228.6	1232.2	11.5	U			
	810	KRAK	49	GB	1228.8	1235.5U	17.0	220.0D	60.0D		
	610	SGMR	49	GB	1229.0E	1235.0	8.0D	16000.0			QL=4 ST=2 TYP=7
	15400	SGMR	49	GB	1229.0E	1234.0	691.0D	880.0			QL=2 ST=1 TYP=7
	33	UPIC	48	C	1229.0	1231.8	6.3				
	245	SVTO	49	GB	1231.0E	1231.0	1.0D	3600.0			QL=2 ST=2 TYP=7
	2695	SGMR	49	GB	1231.0E	1232.0	689.0D	87.0			QL=4 ST=1 TYP=7
	1415	SGMR	49	GB	1231.0E	1232.0	689.0D	470.0			QL=4 ST=1 TYP=7
	234	POTS	42	SER	1231.0	1231.6	5.5	4000.0			

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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	113	POTS	42	SER	1231.1	1232.6	5.4	7000.0D			
	808	ONDR	46	C	1231.5	1233.7	18.5	574.0			
	33	UPIC	31	ABS	1235.3	1238.0	18.2				
	410	SGMR	4	S/F	1239.0E	1240.0	3.0D	440.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1244.0E	1245.0	3.0D	1600.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1244.0E	1245.0	3.0D	2200.0			QL=4 ST=2 TYP=6
	610	SVTO	49	GB	1244.0E	1245.0	3.0D	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1244.0E	1245.0	3.0D	1600.0			QL=2 ST=2 TYP=6
	600	HUMN	4	S/F	1244.7	1245.3	3.5	460.0	103.0		
	9500	CUBA	21	GRF	1248.0E	1248.0	65.0D	37.0			
	9400	HUAN	30	PBI	1255.2	1255.2	87.9	19.9	8.8		
	6700	CUBA	21	GRF	1256.0E	1359.0	132.0D	21.0	10.0		13R
	9500	POTS	4	S/F	1300.2	1301.4	3.8	111.0			
	6700	CUBA	2	S/F	1300.4	1301.0	3.6	91.0	45.0		36R
	9500	CUBA	2	S/F	1300.5	1301.2	3.5	106.0	53.0		
	15000	CUBA	1	S	1300.6	1301.3	5.4	141.0	30.0		46L
	8800	SGMR	8	S	1301.0E	1301.0	U	140.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	1301.0E	1301.0	U	62.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1301.0E	1301.0	U	110.0			QL=2 ST=2 TYP=3
	9400	HUAN	2	S/F	1339.7	1343.5	5.6	20.9	9.2		
	9500	CUBA	2	S/F	1341.7	1343.4	3.8	20.0	10.0		
	6700	CUBA	1	S	1342.0	1343.4	3.2	21.0	10.0		67R
	15000	CUBA	1	S	1342.1	1343.4	1.7	12.0	6.0		72L
	9500	POTS	4	S/F	1342.5	1342.9	2.0	22.0			
	600	HUMN	20	GRF	1359.3	1424.5	84.5	115.0	57.0		
	536	ONDR	49	GB	1400.0	1424.1	38.5	135.0			
	610	SVTO	20	GRF	1404.0E	1424.0	55.0D	200.0			QL=4 ST=2 TYP=2
	610	SGMR	4	S/F	1404.0E	1424.0	63.0D	270.0			QL=4 ST=2 TYP=5
	9400	HUAN	4	S/F	1404.8	1409.5	7.6	56.5	26.4		
	9500	POTS	4	S/F	1407.2	1409.5	5.0	42.0			
	15000	CUBA	2	S/F	1407.2	1409.7	4.8	53.0	26.0		47L
	9500	CUBA	2	S/F	1408.0	1409.6	4.0	42.0	21.0		
	6700	CUBA	2	S/F	1408.0	1409.8	3.8	35.0	17.0		26R
	8800	SGMR	8	S	1409.0E	1409.0	1.0D	55.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	1433.9	1438.1	16.7	64.7	19.0		
	9500	CUBA	47	GB	1434.0	1442.0		118.0			
	15000	CUBA	47	GB	1434.0	1438.0	17.7	642.0	29.0		57L
	9500	CUBA	47	GB	1434.0	1437.8	16.0	538.0			
	6700	CUBA	46	C	1434.4	1437.9	16.2	256.0			SR
	9400	HUAN	45	C	1434.7	1438.0U	10.7	326.7	164.8		
	8800	SVTO	49	GB	1435.0E	1438.0	8.0D	590.0			QL=2 ST=2 TYP=6
	15400	SVTO	49	GB	1435.0E	1438.0	8.0D	550.0			QL=2 ST=2 TYP=6
	4995	SVTO	4	S/F	1435.0E	1437.0	8.0D	270.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1435.0E	1438.0	8.0D	64.0			QL=4 ST=2 TYP=3
	1470	POTS	40	F	1435.5	1438.0	9.5	16.0			
	9500	POTS	45	C	1435.5	1437.8	34.5	480.0			
	2695	SGMR	8	S	1436.0E	1438.0	2.0D	61.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1436.0E	1437.0	8.0D	660.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1436.0E	1437.0	8.0D	530.0			QL=4 ST=2 TYP=6
	4995	SGMR	4	S/F	1436.0E	1437.0	8.0D	260.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1436.0E	1438.0	4.0D	14.0			QL=4 ST=2 TYP=3
	9400	HUAN	29	PBI	1445.4	1445.4	40.1	33.5	12.6		
	9500	CUBA	29	PBI	1450.0		27.0	12.0	6.0		
	6700	CUBA	1	S	1511.9	1512.5	5.0	7.0	3.0		19R
	15000	CUBA	1	S	1524.1	1524.5	2.1	8.0	4.0		26L
	9500	CUBA	1	S	1610.5	1611.5	2.0	12.0	6.0		
	9400	HUAN	2	S/F	1611.1	1612.4	4.1	16.8	7.4		
	15000	CUBA	1	S	1611.5	1612.4	2.5	15.0	7.0		88L
	6700	CUBA	2	S/F	1611.7	1612.4	1.3	8.0	4.0		51R
	9400	HUAN	4	S/F	1637.1	1644.4	13.5	69.1	46.8		
	15000	CUBA	3	S	1640.0	1644.5	9.7	87.0	43.0		40L
	6700	CUBA	46	C	1640.4	1644.4	12.0	39.0	10.0		13R
	9500	CUBA	2	S/F	1642.0	1644.4	6.7	37.0	18.0		
	8800	SGMR	8	S	1643.0E	1644.0	2.0D	57.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1643.0E	1644.0	2.0D	71.0			QL=2 ST=2 TYP=3
	9500	CUBA	23	GRF	1707.0	1738.0	38.0	34.0	17.0		
	9400	HUAN	23	GRF	1711.7	1811.0U	150.6	23.0	14.6		
	9400	HUAN	1	S	1718.3	1720.2	4.5	14.6	7.8		
	15000	CUBA	1	S	1719.7	1720.3	2.3	37.0	18.0		41L

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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	15000	CUBA	20	GRF	1732.0	1738.0	15.0	30.0	15.0		29L
	9400	HUAN	2	S/F	1735.8	1738.0	7.9	16.8	8.2		
	9500	CUBA	20	GRF	1751.0	1816.0	47.0	57.0	28.0		
	6700	CUBA	21	GRF	1807.0	1823.0	25.0	15.0	7.0		00R
	15000	CUBA	21	GRF	1810.0	1823.0	23.0	47.0	8.0		43L
	15400	PALE	4	S/F	1813.0E	1815.0	5.0D	110.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1813.1	1815.3	13.7	62.8	34.5		
	6700	CUBA	2	S/F	1814.3	1815.8	4.7	26.0	13.0		13R
	15000	CUBA	1	S	1814.4	1815.8	5.5	86.0	43.0		29L
	8800	PALE	8	S	1815.0E	1815.0	1.0D	56.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1815.0E	1815.0	1.0D	87.0			QL=2 ST=2 TYP=3
	15000	CUBA	21	GRF	1844.0E	1857.0	13.0D	58.0	29.0		22L
	6700	CUBA	21	GRF	1844.0	1857.0	60.0	25.0	12.0		23R
	15400	PALE	4	S/F	1845.0E	1849.0	5.0D	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	46	C	1846.6	1904.3	65.4	144.0	10.0		
	9500	CUBA	46	C	1846.6	1859.5		110.0			
	9400	HUAN	45	C	1848.5	1903.8	40.0	196.8	88.7		
	15000	CUBA	2	S/F	1848.8	1849.8	3.1	92.0	46.0		66L
	8800	SGMR	8	S	1849.0E	1849.0	1.0D	48.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1849.0E	1849.0	1.0D	97.0			QL=2 ST=2 TYP=3
	6700	CUBA	2	S/F	1849.0	1849.9	3.0	36.0	17.0		21R
	2800	OTTA	22	GRF	1852.0	1912.0	60.0	30.1	6.0		
	15000	CUBA	46	C	1858.4	1911.3		125.0			19L
	15000	CUBA	46	C	1858.4	1903.8	24.8	403.0	201.0		113L
	6700	CUBA	46	C	1858.8	1911.6		70.0			11R
	6700	CUBA	46	C	1858.8	1905.6	25.8	78.0			12R 1900-1902DO
	15400	PALE	4	S/F	1859.0E	1904.0	8.0D	410.0			QL=4 ST=2 TYP=5
	4995	PALE	4	S/F	1859.0E	1902.0	4.0D	50.0			QL=4 ST=2 TYP=5
	8800	PALE	4	S/F	1859.0E	1859.0	7.0D	130.0			QL=4 ST=2 TYP=5
	8800	SGMR	4	S/F	1859.0E	1904.0	7.0D	120.0			QL=2 ST=2 TYP=5
	15400	SGMR	4	S/F	1859.0E	1904.0	8.0D	430.0			QL=2 ST=2 TYP=5
	2695	PALE	8	S	1901.0E	1901.0	U	24.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1902.0E	1902.0	1.0D	72.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1902.0E	1905.0	4.0D	54.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1909.0E	1911.0	12.0D	130.0			QL=4 ST=2 TYP=5
	15400	SGMR	4	S/F	1909.0E	1911.0	16.0D	160.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1910.0E	1915.0	17.0D	83.0			QL=2 ST=2 TYP=5
	8800	PALE	4	S/F	1911.0E	1911.0	11.0D	55.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1911.0E	1911.0	16.0D	39.0			QL=4 ST=2 TYP=3
	6700	CUBA	20	GRF	1956.0	2006.0	79.0	12.0	6.0		00R
	235	CUBA	7	C	2007.0	2008.0U	3.7	375.0D			
	410	SGMR	49	GB	2032.0E	2032.0	1.0D	1000.0			QL=2 ST=2 TYP=6
	15000	CUBA	21	GRF	2034.0	2037.0	17.0	19.0			19L
	15000	CUBA	1	S	2035.0	2035.2	1.0	44.0	7.0		27L
	9400	HUAN	3	S	2042.5	2045.3	7.1	54.4	32.4		
	9500	CUBA	1	S	2044.3	2045.6	2.7	27.0	13.0		
	15000	CUBA	1	S	2044.9	2045.7	1.2	34.0	17.0		25L
	9400	HUAN	23	GRF	2052.0	2106.8	68.4	29.3	16.2		
	15400	SGMR	8	S	2100.0E	2100.0	1.0D	11.0			QL=2 ST=2 TYP=3
	9400	HUAN	2	S/F	2100.3	2101.6	5.0	20.9	8.8		
	1415	SGMR	8	S	2101.0E	2101.0	U	56.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	2121.5	2123.8	5.3	21.0	10.0		47R
	9400	HUAN	2	S/F	2121.8	2123.8	4.7	25.1	11.4		
	6700	CUBA	46	C	2144.3	2206.8	67.7	255.0			SR SUNSET
	15000	CUBA	47	GB	2145.3	2154.3		319.0			55L
	15000	CUBA	47	GB	2145.3	2208.4	55.6	2107.0			28L
	15000	CUBA	47	GB	2145.3	2212.9		936.0			26L
	2800	OTTA	4	S/F	2147.2	2148.7	7.8	31.6	9.0		
	9400	HUAN	45	C	2147.3	2154.0	10.9	142.4	66.8		
	9500	CUBA	47	GB	2148.7	2215.0		407.0			
	9500	CUBA	47	GB	2148.7	2206.3	61.0D	618.0			SUNSET
	35000	NOBE	45	C	2148.8	2206.3	48.0	1740.0			L
	17000	NOBE	45	C	2148.8	2206.3	60.0	1720.0			L
	80000	NOBE	45	C	2148.8	2204.5	44.0	230.0			
	8800	SGMR	8	S	2149.0E	2149.0	U	47.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	2149.0E	2149.0	3.0D	39.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2149.0E	2149.0	3.0D	60.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2153.0E	2154.0	3.0D	200.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	2153.0E	2154.0	3.0D	92.0			QL=2 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
23	8800	SGMR	49	GB	2202.0E	2206.0	19.0D	680.0			QL=2 ST=2 TYP=6
	15400	SGMR	49	GB	2202.0E	2206.0	12.0D	1200.0			QL=2 ST=3 TYP=6
	4995	SGMR	4	S/F	2203.0E	2210.0	18.0D	230.0			QL=4 ST=2 TYP=5
	1415	SGMR	49	GB	2204.0E	2205.0	15.0D	580.0			QL=4 ST=2 TYP=7
	2695	SGMR	4	S/F	2204.0E	2211.0	17.0D	220.0			QL=4 ST=2 TYP=5
	500	HIRA	42	SER	2204.0	2211.1	16.0	900.0			MR
	2800	OTTA	4	S/F	2204.0	2210.6	20.6	235.9	47.0		
	610	SGMR	49	GB	2205.0E	2211.0	7.0D	610.0			QL=4 ST=2 TYP=7
	410	SGMR	49	GB	2206.0E	2211.0	6.0D	520.0			QL=2 ST=2 TYP=7
	2695	PENT	47	GB	2302.9	2306.7	21.1	573.0	115.0		
	4995	LEAR	49	GB	2303.0E	2306.0	13.0D	780.0			QL=4 ST=2 TYP=6
	8800	LEAR	49	GB	2303.0E	2306.0	13.0D	930.0			QL=4 ST=2 TYP=6
	2695	LEAR	49	GB	2303.0E	2306.0	13.0D	620.0			QL=2 ST=2 TYP=6
	35000	NOBE	7	C	2303.9	2316.0		100.0			O,80GHz:O
	17000	NOBE	7	C	2303.9	2316.0		224.0			L
	80000	NOBE	7	C	2303.9	2306.3	11.0	45.0			
	35000	NOBE	7	C	2303.9	2306.3	26.0	200.0			L
	17000	NOBE	7	C	2303.9	2306.3	26.0	425.0			L
	1415	LEAR	4	S/F	2304.0E	2306.0	8.0D	300.0			QL=4 ST=2 TYP=3
	15400	LEAR	49	GB	2304.0E	2306.0	12.0D	550.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	2312.0E	2313.0	1.0D	17.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	2316.0E	2317.0	1.0D	120.0			QL=2 ST=2 TYP=3
24	610	LEAR	44	NS	0201.0E	0215.0	1319.0D	77.0			QL=2 ST=1 TYP=1
	200	GORK	44	NS	0443.0E		410.0D		10.0		
	245	SVTO	44	NS	0506.0E	1411.0	697.0D	720.0			QL=4 ST=2 TYP=1
	113	POTS	44	NS	0550.0E	0703.0	560.0D	1300.0			
	30	POTS	44	NS	0552.0E	0956.0	508.0D	5000.0U			
	204	IZMI	43	NS	0600.0		360.0	150.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	127	TORN	44	NS	0620.0E		520.0D		870.0		V=1
	234	POTS	44	NS	0623.0E	1520.5	539.0D	190.0			
	430	KRAK	44	NS	0806.0E	1015.0U	353.2D	160.0D	20.0		
	260	ONDR	44	NS	0830.0E		390.0D				
	536	ONDR	44	NS	0830.0E	0857.1	390.0D	724.0			
	245	SGMR	44	NS	1100.0E	1250.0	698.0D	370.0			QL=2 ST=2 TYP=1
	600	HUMN	43	NS	1138.0		322.0D	3.0			
	610	SVTO	44	NS	1210.0E	1216.0	13.0D	180.0			QL=2 ST=2 TYP=1
	410	SVTO	44	NS	1210.0E	1227.0	43.0D	190.0			QL=4 ST=2 TYP=1
	410	SGMR	44	NS	1222.0E	1227.0	91.0D	290.0			QL=2 ST=2 TYP=1
	280	CUBA	44	NS	1310.0E		548.0D	1302.1	109.0		
	235	CUBA	44	NS	1310.0E		548.0D		137.0		
	410	SVTO	44	NS	1517.0E	1539.0	86.0D	88.0			QL=4 ST=2 TYP=1
	410	SGMR	44	NS	1628.0E	1707.0	370.0D	130.0			QL=2 ST=2 TYP=1
	245	PALE	44	NS	1649.0E	2315.0	699.0D	400.0			QL=4 ST=2 TYP=1
	410	PALE	44	NS	1649.0E	2022.0	699.0D	370.0			QL=4 ST=2 TYP=1
	100	HIRA	44	NS	2100.0E	0547.0	700.0D	850.0	550.0		SR
	200	HIRA	44	NS	2100.0E	0010.0	700.0D	100.0	30.0		SR
	245	LEAR	44	NS	2245.0E	0847.0	690.0D	490.0			QL=2 ST=2 TYP=1
	17000	NOBE	1	S	0009.3	0009.7	0.7	15.0			O,80,35GHz:O
	2695	PENT	22	GRF	0012.0	0100.0	90.0D	36.4	18.0		
	2840	PEKG	5	S	0106.0	0107.5	3.0	18.8			
	17000	NOBE	2	S/F	0106.3	0112.3	7.0	16.0			O,80,35GHz:O
	2695	LEAR	8	S	0107.0E	0107.0	U	38.0			QL=2 ST=2 TYP=3
	410	LEAR	49	GB	0107.0E	0107.0	U	580.0			QL=2 ST=2 TYP=6
	2840	PEKG	5	S	0214.0	0215.6	5.0	20.3			
	410	LEAR	8	S	0215.0E	0215.0	U	440.0			QL=2 ST=3 TYP=3
	610	LEAR	8	S	0215.0E	0215.0	U	170.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0215.0E	0215.0	U	140.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0215.0E	0215.0	U	180.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0236.0	0244.2	22.0	220.8			
	610	LEAR	49	GB	0239.0E	0246.0	8.0D	570.0			QL=4 ST=2 TYP=7
	500	HIRA	46	C	0239.5	0244.7	12.0	400.0	100.0		WL
	17000	NOBE	7	C	0239.6	0245.1	25.0	82.0			R
	35000	NOBE	20	GRF	0239.6	0245.1	25.0	70.0			O
	80000	NOBE	20	GRF	0239.6	0245.1	25.0	45.0			
	410	LEAR	49	GB	0240.0E	0245.0	9.0D	690.0			QL=2 ST=2 TYP=6
	610	PALE	4	S/F	0240.0E	0246.0	7.0D	490.0			QL=4 ST=2 TYP=5
	410	PALE	49	GB	0240.0E	0244.0	8.0D	580.0			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
24	8800	LEAR	4	S/F	0241.0E	0246.0	8.0D	160.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0241.0E	0244.0	7.0D	220.0			QL=2 ST=2 TYP=5
	4995	LEAR	20	GRF	0241.0E	0246.0	8.0D	200.0			QL=4 ST=2 TYP=2
	4995	PALE	4	S/F	0241.0E	0246.0	7.0D	180.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0242.0E	0243.0	4.0D	56.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0242.0E	0245.0	7.0D	110.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	0242.0E	0245.0	9.0D	140.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0242.0E	0245.0	6.0D	170.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0242.0E	0244.0	5.0D	160.0			QL=4 ST=2 TYP=5
	1415	PALE	4	S/F	0242.0E	0243.0	4.0D	61.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0244.0E	0246.0	6.0D	320.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0245.0E	0246.0	2.0D	260.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0304.0E	0304.0	1.0D	30.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0304.0E	0304.0	U	31.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	0304.0E	0304.0	U	340.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0304.0E	0304.0	U	290.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0304.0E	0304.0	U	22.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0304.0	0304.4	3.0	33.9			
	2840	PEKG	21	GRF	0336.0	0353.4	32.0	7.5			
	2840	PEKG	5	S	0356.0	0356.7	2.0	14.3			
	500	HIRA	45	C	0409.5	0413.5	17.0	19.0	6.0		WL
	9300	KISV	45	C	0452.5E	0500.5	8.5D	38.0			
	9300	KISV	45	C	0452.5	0502.6		15.0			
	650	GORK	21	GRF	0459.4	0500.8	12.5	2.0			
	5900	KISV	22	GRF	0459.5	0502.7	17.0	20.0			
	9100	GORK	2	S/F	0500.0	0500.4	1.5	25.0			
	15000	KISV	2	S/F	0500.0	0500.8	7.3	28.0			
	650	GORK	2	S/F	0500.1	0500.4	0.7	8.5			
	15000	KISV	23	GRF	0544.5	0552.0	30.4	46.0			
	9300	KISV	23	GRF	0545.4	0552.1	37.2	24.0			
	650	GORK	22	GRF	0546.5	0551.6	18.0	3.0			
	2850	CRIM	21	GRF	0547.0	0553.0	37.0	7.5	2.0		
	17000	NOBE	7	C	0547.0	0600.7	15.0	42.0			L,80,35GHz:0
	5900	KISV	23	GRF	0547.2	0551.9	38.6	18.0			
	950	GORK	40	F	0547.4	0559.5		38.0			
	950	GORK	40	F	0547.4	0551.6	18.6	36.0			
	9100	GORK	23	GRF	0552.7U	0957.0	344.6U	23.0			
	2840	PEKG	45	C	0555.0	0600.8	18.0	46.2			
	9300	KISV	45	C	0556.5	0559.2		51.0			
	9300	KISV	45	C	0556.5	0600.8	8.5	71.0			
	5900	KISV	45	C	0556.8	0559.1		48.0			
	5900	KISV	45	C	0556.8	0600.8	7.4	56.0			
	9100	GORK	2	S/F	0557.0	0600.7	6.1	50.0			
	15000	KISV	4	S/F	0557.2	0600.8	5.4	71.0			
	2850	CRIM	7	C	0558.0	0559.5	6.0	22.0	9.0		
	2850	CRIM	7	C	0558.0	0600.8		29.0			
	1415	LEAR	8	S	0559.0E	0559.0	U	340.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0559.0E	0600.0	2.0D	43.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0559.0E	0600.0	2.0D	36.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0559.0E	0600.0	2.0D	36.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0559.0E	0600.0	2.0D	41.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	0559.0E	0559.0	1081.0D	250.0			QL=4 ST=1 TYP=3
	2695	SVTO	8	S	0600.0E	0601.0	1.0D	38.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0600.0E	0601.0	1.0D	43.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0600.0E	0600.0	1.0D	37.0			QL=4 ST=2 TYP=3
	9300	KISV	22	GRF	0648.2	0648.7	20.6	17.0			
	5900	KISV	23	GRF	0717.4	0738.2	55.5	19.0			
	9300	KISV	23	GRF	0721.3	0726.0	40.7	12.0			
	2950	GORK	22	GRF	0723.3	0743.9	24.1	8.9			
	2850	CRIM	7	C	0724.0	0726.0		4.5			
	2850	CRIM	7	C	0724.0	0724.8	3.0	4.5	1.0		
	15000	KISV	23	GRF	0727.2	0737.4	25.0	22.0			
	650	GORK	23	GRF	0730.7	0924.9	205.9	9.0			
	9300	KISV	46	C	0736.0	0742.4		28.0			
	9300	KISV	46	C	0736.0	0743.4	11.8	33.0			
	9300	KISV	46	C	0736.0	0736.5		21.0			
	9100	GORK	22	GRF	0736.0	0743.7	12.3	23.0			
	950	GORK	41	F	0736.7	0744.1	11.1	54.0			
	245	SVTO	49	GB	0738.0E	0739.0	1.0D	3100.0			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
24	234	POTS	42	SER	0738.9	0739.6	12.6	8000.0			
	245	LEAR	49	GB	0739.0E	0739.0	U	2600.0			QL=2 ST=2 TYP=6
	15000	KISV	46	C	0741.8	0744.0		32.0			
	15000	KISV	46	C	0741.8	0742.7	5.8	35.0			
	15000	KISV	46	C	0741.8	0745.9		34.0			
	5900	KISV	45	C	0742.0	0742.6		24.0			
	5900	KISV	45	C	0742.0	0743.8	4.4	26.0			
	2850	CRIM	40	F	0742.5	0743.9	4.0	6.5	2.0		
	245	LEAR	49	GB	0751.0E	0751.0	U	2700.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0751.0E	0751.0	U	2500.0			QL=2 ST=2 TYP=6
	9300	KISV	2	S/F	0824.3	0827.4	8.2	10.0			
	9300	KISV	22	GRF	0837.5	0839.0	29.3	14.0			
	5900	KISV	22	GRF	0837.7	0846.4	28.3	13.0			
	950	GORK	23	GRF	0845.6	1020.6	126.2	8.0			
	610	LEAR	8	S	0857.0E	0857.0	1.0D	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0857.0E	0857.0	1.0D	220.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0857.0E	0857.0	2.0D	91.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	0857.0E	0857.0	2.0D	73.0			QL=4 ST=2 TYP=3
	2850	CRIM	1	S	0904.9	0906.3	4.0	16.0	5.0		
	9300	KISV	23	GRF	0910.0	0952.6	109.1	14.0			
	15000	KISV	2	S/F	0911.2	0916.4	7.5	17.0			
	5900	KISV	4	S/F	0913.3	0916.4	9.6	31.0			
	2950	GORK	21	GRF	0913.4	0918.3	8.5	4.6			
	9300	KISV	4	S/F	0914.4	0916.4	6.4	29.0			
	9500	POTS	3	S	0914.5	0916.3	5.5	21.0			
	3000	POTS	3	S	0915.0E	0916.5U	6.5D	18.0			
	2950	GORK	1	S	0915.1	0916.4	2.9	13.0			
	808	ONDR	42	SER	0930.0	1015.1	152.0	583.0			
	5900	KISV	23	GRF	0944.3	0952.6	79.5	7.0			
	9100	GORK	3	S	0945.0	0946.4	3.2	23.0			
	9500	POTS	45	C	0951.0	1019.0	74.0	970.0			
	15000	KISV	23	GRF	0954.8	0958.5	56.0	57.0			
	9300	KISV	47	GB	0956.0	1012.0	29.2	1327.0			
	1470	POTS	40	F	0956.0	1015.2	59.0	170.0			
	2950	GORK	23	GRF	0956.3		63.3				
	2850	CRIM	46	C	0956.9	1013.0		250.0			
	2850	CRIM	46	C	0956.9	1019.0		85.0			
	2850	CRIM	46	C	0956.9	1030.1		92.0			
	2850	CRIM	46	C	0956.9	0958.5	47.0	346.0U	80.0		
	2850	CRIM	46	C	0956.9	1011.7		150.0			
	2850	CRIM	46	C	0956.9	1005.8		46.0			
	2850	CRIM	46	C	0956.9	1014.8		174.0			
	3013	IZMI	46	C	0957.0	1017.0	50.0	341.0			
	9100	GORK	46	C	0957.0	1034.4		510.0			
	9100	GORK	46	C	0957.0	1018.5		1300.0			
	9100	GORK	46	C	0957.0	1011.5	59.4	1200.0			
	2950	GORK	4	S/F	0957.2	0958.5	4.2	77.0			
	5900	KISV	4	S/F	0957.9	0958.5	3.7	39.0			
	4995	LEAR	8	S	0958.0E	0959.0	2.0D	41.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0958.0E	0959.0	2.0D	39.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0958.0E	0959.0	2.0D	53.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0958.0E	0958.0	1.0D	39.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0958.0E	0958.0	1.0D	46.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0958.0E	0958.0	1.0D	60.0			QL=4 ST=2 TYP=3
	3000	POTS	45	C	0958.0U	1013.0U	72.0U	570.0			
	15400	LEAR	8	S	0959.0E	0959.0	1.0D	37.0			QL=4 ST=2 TYP=3
	8800	SVTO	49	GB	1002.0E	1018.0	48.0D	1100.0			QL=4 ST=2 TYP=6
	5900	KISV	47	GB	1002.5	1013.0	22.5	735.0			
	15000	KISV	47	GB	1003.5	1019.0	18.5	2272.0			
	2950	GORK	4	S/F	1003.8	1005.8	3.7	31.0			
	15400	SVTO	49	GB	1004.0E	1018.0	47.0D	1800.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	1004.0E	1013.0	47.0D	650.0			QL=4 ST=2 TYP=6
	600	HUMN	4	S/F	1004.7	1015.0	12.5	215.0	22.0		
	810	KRAK	42	SER	1005.4	1015.0U	45.2	250.0D			
	950	GORK	4	S/F	1005.4	1005.7	0.5	205.0			
	2950	GORK	47	GB	1007.9	1013.0	17.4	400.0			
	950	GORK	4	S/F	1007.9	1008.4	0.7	205.0			
	1415	SVTO	4	S/F	1009.0E	1015.0	42.0D	180.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1009.0E	1013.0	42.0D	370.0			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
24	950	GORK	46	C	1009.4	1015.1		310.0			
	650	GORK	46	C	1009.4	1012.2	10.4	125.0			
	650	GORK	46	C	1009.4	1015.3		725.0			
	950	GORK	46	C	1009.4	1012.3	10.4	70.0			
	610	SVTO	49	GB	1012.0E	1015.0	39.0D	510.0			QL=4 ST=2 TYP=6
	410	SVTO	4	S/F	1014.0E	1015.0	37.0D	230.0			QL=2 ST=2 TYP=3
	600	HUMN	2	S/F	1022.0	1023.0	1.8	33.0	9.0		
	650	GORK	4	S/F	1022.2	1023.2	1.8	110.0			
	950	GORK	4	S/F	1022.4	1023.3	1.6	80.0			
	15000	KISV	4	S/F	1028.6	1034.4	10.8	364.0			
	2950	GORK	46	C	1028.7	1030.5	8.3	80.0			
	2950	GORK	46	C	1028.7	1035.6		56.0			
	600	HUMN	2	S/F	1029.0	1031.0	3.0	10.0	4.0		
	9300	KISV	47	GB	1032.2	1035.5	11.4	370.0			
	5900	KISV	47	GB	1032.8	1035.5	10.4	251.0			
	113	POTS	4	S/F	1033.5U	1035.8	4.3U	2800.0D			
	40	POTS	4	S/F	1033.8U	1035.6U	28.0U	U			
	234	POTS	4	S/F	1034.0U	1035.7	2.4U	650.0			
	600	HUMN	2	S/F	1034.6	1035.7	3.7	31.0	5.0		
	245	SVTO	49	GB	1035.0E	1035.0	1.0D	780.0			QL=2 ST=2 TYP=6
	650	GORK	4	S/F	1035.3	1035.7	0.8	230.0			
	950	GORK	4	S/F	1035.3	1035.8	0.9	265.0			
	2950	GORK	2	S/F	1043.3	1044.6	1.6	12.0			
	5900	KISV	4	S/F	1049.4	1050.7	2.7	27.0			
	2950	GORK	2	S/F	1050.1	1050.9	2.0	16.0			
	9100	GORK	3	S	1054.2	1054.8	1.6	17.0			
	950	GORK	2	S/F	1110.6	1111.1	0.9	6.0			
	5900	KISV	25	R	1121.9	1124.8		18.0			
	9300	KISV	23	GRF	1122.3E	1221.8	68.7D	27.0			
	15000	KISV	4	S/F	1124.2	1124.6	1.2	61.0			
	650	GORK	22	GRF	1124.3	1131.4	8.5	4.0			
	9300	KISV	4	S/F	1124.4	1124.8	2.6	23.0			
	950	GORK	22	GRF	1125.0	1131.1	8.0D	10.0			
	810	KRAK	42	SER	1128.5	1130.9	2.5	12.0			
	9500	POTS	20	GRF	1142.5	1227.6	77.5	22.0			
	5900	KISV	2	S/F	1144.1	1146.3	6.2	9.0			
	810	KRAK	42	SER	1201.0	1218.7	33.5	120.0D			
	234	POTS	41	F	1204.4	1207.6	5.6	1300.0			
	808	ONDR	49	GB	1204.5	1209.5	30.5	355.0			
	1470	POTS	40	F	1204.5	1222.6	36.5	46.0			
	245	SGMR	49	GB	1207.0E	1207.0	1.0D	970.0			QL=4 ST=3 TYP=6
	245	SVTO	49	GB	1207.0E	1207.0	1.0D	1000.0			QL=2 ST=2 TYP=6
	536	ONDR	49	GB	1208.0	1225.0	21.5	461.0			
	610	SGMR	8	S	1209.0E	1210.0	2.0D	170.0			QL=4 ST=2 TYP=3
	600	HUMN	41	F	1209.0	1217.0	22.0	102.0			
	3000	POTS	26	FAL	1209.0	1222.4	51.0	14.0			
	610	SGMR	8	S	1213.0E	1213.0	U	180.0			QL=4 ST=3 TYP=3
	610	SGMR	8	S	1216.0E	1216.0	1.0D	240.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1222.0E	1223.0	1.0D	97.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	1226.2	1227.6	2.6	7.0			
	9300	KISV	2	S/F	1227.2	1227.6	1.5	14.0			
	410	SGMR	8	S	1234.0E	1234.0	U	420.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1234.0E	1234.0	U	1500.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1234.0E	1234.0	1.0D	1500.0			QL=2 ST=2 TYP=6
	234	POTS	42	SER	1234.4	1234.6	3.7	2900.0			
	9500	CUBA	21	GRF	1251.0	1335.0	144.0	25.0	12.0		
	1470	POTS	8	S	1252.0	1252.5	1.0	26.0			
	1470	POTS	42	SER	1305.3	1305.5	5.2	20.0			
	245	SGMR	49	GB	1348.0E	1348.0	1.0D	520.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	1348.0E	1348.0	1.0D	610.0			QL=2 ST=2 TYP=6
	6700	CUBA	1	S	1348.0E	1348.8	2.0D	8.0	4.0		46R
	234	POTS	42	SER	1348.5	1348.8	5.5	1500.0			
	245	SGMR	8	S	1353.0E	1353.0	U	400.0			QL=2 ST=2 TYP=3
	1470	POTS	8	S	1353.2	1353.5	0.8	18.0			
	9500	CUBA	1	S	1354.0	1354.1	1.5	10.0	5.0		
	15000	CUBA	1	S	1354.0	1354.1	0.7	33.0	16.0		74L
	9400	HUAN	23	GRF	1401.9E	1506.6U	106.6D	21.7	9.6		
	3000	POTS	29	PBI	1406.5E	1411.0U	48.5D	270.0			
	6700	CUBA	47	GB	1407.2	1418.2		189.0			19R

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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	6700	CUBA	47	GB	1407.2	1411.3	36.8	499.0			59R
	15000	CUBA	47	GB	1407.5	1411.0	35.5	1242.0D			39L
	9500	POTS	45	C	1407.5	1411.2	40.0	750.0			
	15000	CUBA	47	GB	1407.5	1429.3		152.0			38L
	1470	POTS	4	S/F	1407.5	1411.4	35.0	280.0			
	9500	CUBA	47	GB	1407.5	1418.5		205.0			
	9500	CUBA	47	GB	1407.5	1411.5	67.5	782.0			
	9400	HUAN	45	C	1407.5	1411.6U	27.9	233.5	112.4		
	15000	CUBA	47	GB	1407.5	1418.7		327.0			16L
	245	SGMR	49	GB	1408.0E	1408.0	U	3100.0			QL=2 ST=3 TYP=6
	245	SVTO	49	GB	1408.0E	1408.0	U	3200.0			QL=2 ST=2 TYP=6
	4995	SGMR	49	GB	1408.0E	1411.0	17.0D	640.0			QL=4 ST=2 TYP=6
	2695	SVTO	4	S/F	1408.0E	1411.0	18.0D	320.0			QL=4 ST=2 TYP=3
	4995	SVTO	49	GB	1408.0E	1411.0	18.0D	710.0			QL=4 ST=2 TYP=6
	2695	SGMR	4	S/F	1409.0E	1411.0	16.0D	280.0			QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1409.0E	1411.0	16.0D	1000.0			QL=2 ST=2 TYP=6
	15400	SGMR	49	GB	1409.0E	1411.0	16.0D	640.0			QL=2 ST=2 TYP=6
	8800	SVTO	49	GB	1409.0E	1411.0	17.0D	1000.0			QL=4 ST=2 TYP=6
	1415	SVTO	4	S/F	1410.0E	1411.0	4.0D	260.0			QL=4 ST=2 TYP=3
	808	ONDR	45	C	1410.0	1412.0	16.2	29.0			
	1415	SGMR	20	GRF	1410.0E	1411.0	13.0D	280.0			QL=4 ST=2 TYP=2
	15400	SVTO	49	GB	1410.0E	1411.0	16.0D	730.0			QL=4 ST=2 TYP=6
	234	POTS	42	SER	1411.5	1411.6	8.5	600.0			
	2800	OTTA	29	PBI	1414.0E	1414.0	31.0D	49.9	25.0		
	2800	OTTA	3	S	1416.7	1417.8	6.3	92.0	37.0		
	15400	SGMR	4	S/F	1425.0E	1429.0	6.0D	110.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1425.0E	1429.0	4.0D	66.0			QL=4 ST=2 TYP=5
	8800	SGMR	4	S/F	1425.0E	1429.0	6.0D	99.0			QL=2 ST=2 TYP=5
	15400	SVTO	4	S/F	1428.0E	1429.0	3.0D	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1429.0E	1429.0	U	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1429.0E	1429.0	U	81.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1429.0E	1429.0	U	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1432.0E	1433.0	1.0D	57.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1433.0E	1433.0	1.0D	54.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1433.0E	1433.0	1.0D	57.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1433.0E	1433.0	1.0D	79.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1433.0E	1433.0	1.0D	64.0			QL=4 ST=2 TYP=3
	9400	HUAN	2	S/F	1439.9	1440.6	6.9	12.7	5.1		
	410	SVTO	8	S	1509.0E	1509.0	1.0D	55.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1509.0E	1509.0	U	340.0			QL=2 ST=2 TYP=3
	15000	CUBA	23	GRF	1533.0	1541.0	15.0	12.0	6.0		4L
	9400	HUAN	2	S/F	1534.8	1539.0	6.6	5.4	1.8		
	9500	CUBA	2	S/F	1538.0	1540.9	6.0	28.0	14.0		
	610	SGMR	8	S	1539.0E	1539.0	1.0D	190.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1553.0	1607.0	30.0	16.0	8.0		
	410	SGMR	4	S/F	1600.0E	1600.0	4.0D	56.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1611.0E	1612.0	1.0D	920.0			QL=2 ST=2 TYP=6
	9400	HUAN	1	S	1618.4	1620.0	5.8	5.4	1.6		
	6700	CUBA	1	S	1619.5	1620.3	3.5	9.0	4.0		21R
	9400	HUAN	23	GRF	1641.4	1742.5	133.2	19.9	8.4		
	245	SGMR	49	GB	1645.0E	1645.0	2.0D	2600.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	1655.0E	1655.0	U	660.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1655.0E	1655.0	1.0D	850.0			QL=2 ST=2 TYP=6
	6700	CUBA	21	GRF	1706.0	1718.0	43.0	21.0	10.0		29R
	15000	CUBA	20	GRF	1707.0	1726.0	50.0	19.0	9.0		22L
	2800	OTTA	4	S/F	1716.9	1720.0	11.0	60.9	18.0		
	9400	HUAN	2	S/F	1718.8	1723.2	9.2	16.3	7.2		
	6700	CUBA	2	S/F	1719.0	1723.1	7.0	33.0	16.0		26R
	9500	CUBA	20	GRF	1721.0	1723.0	11.0	27.0	13.0		
	410	PALE	8	S	1722.0E	1722.0	1.0D	100.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	1722.0E	1722.0	1.0D	300.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1722.0E	1722.0	1.0D	310.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1722.0E	1722.0	1.0D	240.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1722.0E	1723.0	3.0D	43.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1722.0E	1723.0	1.0D	34.0			QL=2 ST=2 TYP=3
	610	SGMR	8	S	1722.0E	1722.0	1.0D	420.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1808.0E	1828.0	88.0D	29.0	14.0		
	9500	CUBA	46	C	1814.0	1817.8	12.0	159.0	34.0		
	15000	CUBA	46	C	1814.5	1817.9	14.5	253.0	39.0		ML

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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	9400	HUAN	45	C	1814.6	1817.2	10.7	206.3	104.5		
	6700	CUBA	46	C	1814.6	1823.4		45.0			27R
	6700	CUBA	46	C	1814.6	1817.9	11.4	127.0	31.0		21R
	15400	SGMR	4	S/F	1816.0E	1817.0	5.0D	180.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1816.0E	1817.0	5.0D	87.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1816.0E	1817.0	5.0D	210.0			QL=2 ST=2 TYP=3
	2800	OTTA	4	S/F	1816.7	1818.2	10.4	33.2	10.0		
	8800	SGMR	4	S/F	1822.0E	1823.0	3.0D	62.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	1823.0E	1823.0	U	51.0			QL=4 ST=2 TYP=3
	6700	CUBA	30	PBI	1826.0		29.0	9.0	4.0		00R
	6700	CUBA	1	S	1840.1	1841.5	5.4	48.0	24.0		12R
	9400	HUAN	3	S	1840.5	1841.2	2.7	67.0	28.9		
	9500	CUBA	1	S	1840.5	1841.5	4.5	57.0	28.0		
	8800	SGMR	8	S	1841.0E	1841.0	1.0D	76.0			QL=2 ST=2 TYP=3
	4995	SGMR	8	S	1841.0E	1841.0	U	37.0			QL=4 ST=2 TYP=3
	9400	HUAN	23	GRF	1903.7	1952.3U	75.9	19.9	8.9		
	245	PALE	8	S	1910.0E	1910.0	1.0D	400.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1910.0E	1910.0	U	480.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	1913.0E	1914.0	1.0D	480.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1913.0E	1914.0	1.0D	680.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	1914.0E	1914.0	U	170.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1914.0E	1914.0	U	350.0			QL=2 ST=2 TYP=3
	6700	CUBA	2	S/F	1925.0	1927.2	4.5	16.0	8.0		46R
	9400	HUAN	1	S	1925.0	1927.4	5.1	14.5	6.7		
	2800	OTTA	4	S/F	1935.8	1939.1	11.5	72.6	22.0		
	4995	PALE	4	S/F	1937.0E	1938.0	6.0D	110.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	1937.0	1938.6	6.8	86.9	39.8		
	1415	PALE	4	S/F	1938.0E	1942.0	5.0D	100.0			QL=4 ST=2 TYP=5
	8800	PALE	4	S/F	1938.0E	1938.0	4.0D	81.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1938.0E	1939.0	5.0D	670.0			QL=2 ST=2 TYP=7
	15400	PALE	8	S	1938.0E	1938.0	1.0D	34.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1938.0E	1939.0	4.0D	61.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	1938.0E	1939.0	5.0D	520.0			QL=4 ST=2 TYP=7
	2695	SGMR	8	S	1938.0E	1938.0	1.0D	57.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1938.0E	1938.0	1.0D	89.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1938.0E	1939.0	3.0D	410.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1938.0E	1938.9	7.0D	104.0			11R
	15000	CUBA	1	S	1938.3	1939.0	3.1	30.0	15.0		18L
	410	SGMR	49	GB	1939.0E	1939.0	2.0D	990.0			QL=2 ST=2 TYP=6
	610	SGMR	8	S	1941.0E	1942.0	1.0D	64.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1941.0E	1942.0	2.0D	150.0			QL=2 ST=2 TYP=3
	1415	SGMR	8	S	1942.0E	1942.0	1.0D	83.0			QL=4 ST=2 TYP=3
	6700	CUBA	30	PBI	1945.0		23.0	15.0	7.0		7R
	9400	HUAN	1	S	1947.7	1949.8	4.6	7.2	3.2		
	6700	CUBA	1	S	1949.0	1949.8	3.0	15.0	7.0		83R
	245	SGMR	8	S	2022.0E	2022.0	U	350.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	2022.0E	2022.0	U	420.0			QL=2 ST=2 TYP=3
	9400	HUAN	22	GRF	2040.2	2055.1	27.5	14.5	6.4		
	9400	HUAN	22	GRF	2127.6	2153.6	74.2	27.2	12.6		
	610	PALE	8	S	2139.0E	2139.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2153.0E	2153.0	1.0D	510.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	2153.0E	2153.0	2.0D	540.0			QL=2 ST=2 TYP=6
	15000	CUBA	1	S	2153.0	2153.7	3.4	20.0	10.0		88L
	610	SGMR	8	S	2236.0E	2236.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2313.0E	2315.0	7.0D	340.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2315.0E	2315.0	2.0D	320.0			QL=2 ST=2 TYP=3
	610	LEAR	49	GB	2341.0E	2341.0	1.0D	2400.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	2341.0E	2341.0	1.0D	130.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	2341.0E	2341.0	U	100.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	2341.0E	2342.0	1.0D	26.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2341.0E	2341.0	U	130.0			QL=4 ST=3 TYP=3
	610	PALE	49	GB	2341.0E	2341.0	1.0D	2400.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2341.0E	2341.0	1.0D	80.0			QL=4 ST=3 TYP=3
	2695	PENT	47	GB	2358.5	2417.8	39.0	525.0	105.0		
25	410	LEAR	44	NS	0142.0E	0400.0	425.0D	270.0			QL=2 ST=2 TYP=1
	610	LEAR	44	NS	0201.0E	0215.0	357.0D	77.0			QL=2 ST=2 TYP=1
	200	GORK	44	NS	0419.0E		520.0D		10.0		
	100	GORK	44	NS	0419.0E		520.0D		70.0		

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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
25	245	SVTO	44	NS	0507.0E	1143.0	697.0D	190.0			QL=4 ST=2 TYP=1
	610	SVTO	44	NS	0520.0E	0529.0	56.0D	150.0			QL=2 ST=2 TYP=1
	410	SVTO	44	NS	0549.0E	0549.0	31.0D	57.0			QL=2 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		360.0	130.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	600	HUMN	44	NS	0600.0E		660.0D	6.0			
	127	TORN	44	NS	0620.0E		520.0D		450.0		V=1
	30	POTS	44	NS	0650.0E	1402.0	540.0D	U			
	113	POTS	44	NS	0650.0E	0816.5	515.0D	400.0			
	260	ONDR	44	NS	0800.0E		420.0D				
	234	POTS	44	NS	0800.0E	1052.0U	446.0D	120.0			
	536	ONDR	44	NS	0800.0E	0811.7U	420.0D	1313.0U			
	430	KRAK	44	NS	0818.0E	1134.5	340.0D	77.0	16.0		
	245	SGMR	44	NS	1059.0E	1434.0	700.0D	470.0			QL=2 ST=2 TYP=1
	410	SVTO	44	NS	1143.0E	1143.0	301.0D	72.0			QL=2 ST=2 TYP=1
	410	SGMR	44	NS	1144.0E	1144.0	655.0D	59.0			QL=2 ST=2 TYP=1
	280	CUBA	44	NS	1300.0E		535.0D		108.0		
	235	CUBA	44	NS	1300.0E		535.0D		290.0		
	245	PALE	44	NS	1648.0E	0316.0	700.0D	160.0			QL=2 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	0700.0	700.0D	200.0	50.0		SR
	100	HIRA	44	NS	2100.0E	0510.0	700.0D	850.0	700.0		SR
	245	LEAR	44	NS	2245.0E	0528.0	689.0D	740.0			QL=2 ST=2 TYP=1
	410	LEAR	44	NS	2255.0E	0143.0	679.0D	160.0			QL=2 ST=2 TYP=1
	245	LEAR	4	S/F	0001.0E	0006.0	7.0D	300.0			QL=2 ST=3 TYP=3
	610	PALE	8	S	0001.0E	0001.0	1.0D	66.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	0001.0E	0017.0	41.0D	4100.0			QL=4 ST=2 TYP=7
	245	LEAR	8	S	0002.0E	0002.0	2.0D	180.0			QL=2 ST=2 TYP=3
	4995	LEAR	49	GB	0002.0E	0017.0	29.0D	1400.0			QL=4 ST=2 TYP=7
	8800	LEAR	49	GB	0002.0E	0017.0	29.0D	3800.0			QL=4 ST=2 TYP=7
	80000	NOBE	45	C	0002.6	0017.6	26.0	450.0			L
	35000	NOBE	45	C	0002.6	0017.6	26.4	2580.0			L
	17000	NOBE	45	C	0002.6	0017.6	26.4	3810.0			L
	610	LEAR	4	S/F	0003.0E	0003.0	1437.0D	46.0			QL=4 ST=1 TYP=3
	2695	LEAR	49	GB	0004.0E	0017.0	26.0D	580.0			QL=2 ST=2 TYP=7
	15400	LEAR	49	GB	0004.0E	0017.0	27.0D	4900.0			QL=4 ST=2 TYP=7
	4995	PALE	49	GB	0004.0E	0017.0	28.0D	1400.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	0004.0E	0017.0	1436.0D	4600.0			QL=4 ST=1 TYP=7
	245	PALE	8	S	0006.0E	0006.0	U	280.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0006.0E	0013.0	18.0D	290.0			QL=4 ST=2 TYP=5
	2695	PALE	4	S/F	0006.0E	0017.0	19.0D	480.0			QL=4 ST=2 TYP=5
	1415	PALE	4	S/F	0008.0E	0013.0	15.0D	270.0			QL=4 ST=2 TYP=5
	500	HIRA	46	C	0012.0	0017.7	12.0	2000.0	200.0		SR
	410	PALE	8	S	0013.0E	0013.0	1.0D	200.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0017.0E	0017.0	6.0D	340.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0017.0E	0017.0	5.0D	140.0			QL=2 ST=2 TYP=3
	17000	NOBE	29	PBI	0029.0E	0029.0	25.0D	102.0			L
	35000	NOBE	29	PBI	0029.0E	0029.0	25.0D	110.0			O
	610	LEAR	4	S/F	0037.0E	0038.0	5.0D	140.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0044.0E	0103.0	29.0D	250.0			QL=4 ST=2 TYP=5
	410	LEAR	4	S/F	0044.0E	0045.0	58.0D	440.0			QL=2 ST=2 TYP=3
	1415	LEAR	4	S/F	0044.0E	0054.0	77.0D	270.0			QL=4 ST=2 TYP=3
	610	LEAR	49	GB	0044.0E	0046.0	77.0D	1700.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	0044.0E	0047.0	84.0D	1500.0			QL=4 ST=2 TYP=6
	500	HIRA	46	C	0044.0	0051.9	35.0	900.0	300.0		SR
	410	PALE	4	S/F	0045.0E	0050.0	11.0D	260.0			QL=2 ST=2 TYP=5
	2840	PEKG	45	C	0045.0E	0045.9	13.0D	44.5			
	2695	LEAR	4	S/F	0047.0E	0047.0	74.0D	31.0			QL=2 ST=2 TYP=3
	2840	PEKG	45	C	0058.0	0106.0	16.0	18.8			
	245	LEAR	49	GB	0135.0E	0135.0	1.0D	790.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0135.0E	0135.0	1.0D	1100.0			QL=2 ST=2 TYP=6
	245	LEAR	49	GB	0216.0E	0216.0	U	1100.0			QL=2 ST=2 TYP=6
	15400	LEAR	8	S	0220.0E	0221.0	1.0D	37.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0220.0E	0220.0	2.0D	3300.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0220.0E	0221.0	1.0D	2900.0			QL=2 ST=2 TYP=6
	610	LEAR	8	S	0251.0E	0252.0	2.0D	210.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	0251.0E	0252.0	2.0D	210.0			QL=4 ST=2 TYP=5
	410	LEAR	8	S	0258.0E	0259.0	1.0D	28.0			QL=2 ST=2 TYP=3
	610	PALE	49	GB	0258.0E	0345.0	90.0D	1100.0			QL=4 ST=2 TYP=7
	610	LEAR	8	S	0259.0E	0300.0	2.0D	150.0			QL=2 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
25	245	LEAR	49	GB	0302.0E	0303.0	1.0D	800.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0302.0E	0303.0	1.0D	700.0			QL=2 ST=2 TYP=6
	610	LEAR	4	S/F	0305.0E	0313.0	9.0D	200.0			QL=2 ST=2 TYP=5
	245	LEAR	49	GB	0306.0E	0306.0	1.0D	3600.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0306.0E	0307.0	1.0D	420.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	0306.0E	0307.0	1.0D	2900.0			QL=2 ST=2 TYP=6
	17000	NOBE	7	C	0306.4	0307.2	19.0	100.0			L,BAD WEATHER
	17000	NOBE	7	C	0306.4	0322.3		29.0			L
	15400	LEAR	8	S	0307.0E	0307.0	U	100.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0307.0E	0307.0	U	190.0			QL=2 ST=2 TYP=3
	610	LEAR	49	GB	0314.0E	0345.0	67.0D	1500.0			QL=2 ST=2 TYP=7
	245	LEAR	49	GB	0315.0E	0315.0	U	1000.0			QL=2 ST=2 TYP=6
	8800	LEAR	20	GRF	0321.0E	0331.0	20.0D	40.0			QL=4 ST=2 TYP=2
	15400	LEAR	8	S	0322.0E	0322.0	U	42.0			QL=4 ST=2 TYP=3
	500	HIRA	46	C	0333.0	0344.6	46.0	380.0	150.0		SR
	410	LEAR	4	S/F	0339.0E	0350.0	13.0D	160.0			QL=2 ST=2 TYP=5
	2840	PEKG	5	S	0410.0	0412.0	4.0	18.8			
	9100	GORK	23	GRF	0421.0E	0509.5U	520.0D	30.0			
	650	GORK	23	GRF	0424.0E	1201.5U	516.0D	15.0			
	610	LEAR	49	GB	0428.0E	0428.0	U	620.0			QL=2 ST=2 TYP=6
	2950	GORK	1	S	0439.5	0439.6	0.8	6.5			
	9100	GORK	1	S	0456.3	0456.6	0.7	10.0			
	9300	KISV	23	GRF	0506.1	0540.3	63.6	60.0			
	610	SVTO	8	S	0516.0E	0517.0	1.0D	230.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	0525.0E	0529.0	12.0D	200.0			QL=2 ST=2 TYP=3
	5900	KISV	23	GRF	0526.1	0539.5	75.6	33.0			
	9100	GORK	46	C	0528.0	0546.3		40.0			
	9100	GORK	46	C	0528.0	0531.8	29.0	270.0			
	9300	KISV	4	S/F	0528.2	0531.8	8.4	87.0			
	5900	KISV	4	S/F	0528.2	0531.9	7.0	128.0			
	15000	KISV	29	PBI	0528.3	0534.0	14.4	43.0			
	15000	KISV	4	S/F	0528.3	0531.1	5.7	89.0			
	2950	GORK	21	GRF	0528.4	0534.6	24.5	13.0			
	4995	LEAR	4	S/F	0529.0E	0531.0	8.0D	87.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0529.0E	0531.0	21.0D	230.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0529.0	0533.8	7.0	33.9			
	2850	CRIM	7	C	0529.5	0530.2	6.0	31.0	11.0		
	2950	GORK	46	C	0529.5	0530.3	4.5	22.0			
	2850	CRIM	29	PBI	0529.5	0535.5	6.0	11.0	4.0		
	2850	CRIM	7	C	0529.5	0532.6		33.0			
	2950	GORK	46	C	0529.5	0532.6		20.0			
	2695	LEAR	8	S	0530.0E	0530.0	U	26.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0530.0E	0531.0	6.0D	240.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0530.0E	0531.0	4.0D	120.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0530.0E	0531.0	4.0D	120.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0530.0E	0531.0	13.0D	130.0			QL=4 ST=2 TYP=3
	17000	NOBE	7	C	0531.5E	0531.5	6.0D	84.0			L,8035GHz:0
	9300	KISV	2	S/F	0545.5	0546.3	3.1	20.0			
	5900	KISV	2	S/F	0545.6	0546.5	2.0	12.0			
	245	LEAR	8	S	0548.0E	0548.0	1.0D	66.0			QL=2 ST=2 TYP=3
	9300	KISV	21	GRF	0618.0	0620.0	16.5	13.0			
	9300	KISV	22	GRF	0643.0	0646.2	10.2	10.0			
	600	HUMN	4	S/F	0646.0	0652.5	15.0	112.0	36.0		
	610	SVTO	8	S	0652.0E	0653.0	1.0D	87.0			QL=2 ST=2 TYP=3
	15000	KISV	22	GRF	0656.6	0657.5	15.7	15.0			
	15000	KISV	22	GRF	0656.6	0702.7		15.0			
	5900	KISV	22	GRF	0700.6	0711.1		20.0			
	5900	KISV	22	GRF	0700.6	0702.1	16.2	16.0			
	245	LEAR	49	GB	0701.0E	0702.0	2.0D	1200.0			QL=2 ST=2 TYP=6
	204	IZMI	41	F	0701.0	0701.8	1.5	1200.0			
	200	GORK	4	S/F	0701.6	0702.6	1.5	1900.0			
	650	GORK	2	S/F	0702.0	0702.7	1.1	20.0			
	950	GORK	2	S/F	0702.0	0702.7	1.1	10.0			
	9300	KISV	42	SER	0702.1	0702.7	15.0	15.0			
	9300	KISV	42	SER	0702.1	0707.9		14.0			
	2950	GORK	1	S	0702.2	0702.7	1.4	3.8			
	950	GORK	29	PBI	0710.3	0711.1	22.0	5.0			
	950	GORK	4	S/F	0710.3	0710.6	0.7	108.0			
	9300	KISV	22	GRF	0724.3	0725.1	11.3	12.0			

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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
25	9500	POTS	45	C	0740.0	0809.8	120.0	7500.0D			
	9300	KISV	42	SER	0740.6	0752.3		14.0			
	9300	KISV	42	SER	0740.6	0757.9		57.0			
	9300	KISV	42	SER	0740.6	0740.9	20.3	10.0			
	9100	GORK	47	GB	0750.0	0809.6		15500.0			
	15000	KISV	4	S/F	0755.4	0757.8	5.2	73.0			
	2950	GORK	21	GRF	0755.7		49.3				
	8800	LEAR	8	S	0757.0E	0757.0	1.0D	29.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0757.0E	0757.0	1.0D	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0757.0E	0757.0	2.0D	110.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0757.0E	0757.0	3.0D	66.0			QL=2 ST=2 TYP=3
	5900	KISV	4	S/F	0757.3	0757.9	3.2	16.0			
	808	ONDR	49	GB	0800.0	0812.0	40.0	1093.0U			
	15000	KISV	47	GB	0800.5	0809.5	39.9	35138.0			
	9300	KISV	47	GB	0802.0	0803.6U	3.8	12392.0			
	3013	IZMI	45	C	0802.5	0809.5	32.0	3323.0			
	3000	POTS	45	C	0802.5U	0809.5D	48.0U	4500.0D			
	1470	POTS	45	C	0802.7	0811.3	57.3	2600.0			
	5900	KISV	47	GB	0802.8	0809.5	41.5	6367.0			
	15400	LEAR	49	GB	0803.0E	0809.0	27.0D	24000.0			QL=4 ST=2 TYP=7
	8800	LEAR	49	GB	0803.0E	0809.0	24.0D	13000.0			QL=4 ST=2 TYP=7
	15400	SVTO	49	GB	0803.0E	0809.0	28.0D	27000.0			QL=2 ST=2 TYP=7
	8800	SVTO	49	GB	0803.0E	0809.0	26.0D	13000.0			QL=2 ST=2 TYP=7
	35000	NOBE	47	GB	0803.0	0809.4	9.0D	15670.0			L,80GHz:NO OBS
	17000	NOBE	47	GB	0803.0	0809.4	9.0D	14820.0			L
	950	GORK	46	C	0803.3E	0809.5		970.0			
	950	GORK	46	C	0803.3E	0808.9	31.7U	750.0			
	4995	LEAR	49	GB	0804.0E	0809.0	23.0D	6000.0			QL=4 ST=2 TYP=7
	4995	SVTO	49	GB	0804.0E	0809.0	24.0D	6500.0			QL=2 ST=2 TYP=7
	2850	CRIM	47	GB	0804.0	0809.0	34.5	1056.0	320.0		
	2950	GORK	47	GB	0804.0	0809.7	20.6	3717.0			
	600	HUMN	4	S/F	0804.5	0812.0	36.0	620.0	67.0		
	100	HIRA	46	C	0804.6		8.0	1000.0D			
	113	POTS	41	F	0804.7	0810.5U	8.1	2500.0D			
	40	POTS	41	F	0805.0	0810.0	8.2	30000.0D			
	1415	LEAR	49	GB	0805.0E	0809.0	19.0D	4300.0			QL=4 ST=2 TYP=7
	1415	SVTO	49	GB	0805.0E	0809.0	19.0D	3800.0			QL=2 ST=2 TYP=7
	2695	SVTO	49	GB	0805.0E	0809.0	19.0D	3700.0			QL=2 ST=2 TYP=7
	245	SVTO	49	GB	0805.0E	0810.0	13.0D	4700.0			QL=2 ST=2 TYP=7
	2695	LEAR	49	GB	0805.0E	0809.0	20.0D	4300.0			QL=2 ST=2 TYP=7
	650	GORK	47	GB	0805.0	0812.1	21.0	4950.0			
	200	GORK	41	F	0805.0	0810.3		21000.0			
	204	IZMI	42	SER	0805.0	0810.4	19.0	5500.0			
	200	GORK	41	F	0805.0	0819.9		290.0			
	200	GORK	41	F	0805.0	0805.9	19.2	2100.0			
	200	HIRA	46	C	0805.2	0809.0	8.6	5000.0	600.0		
	100	GORK	47	GB	0805.5	0810.0		18000.0			
	100	GORK	47	GB	0805.5	0810.5		26000.0			
	100	GORK	47	GB	0805.5	0805.8	8.0	26000.0			
	610	SVTO	49	GB	0806.0E	0812.0	17.0D	4100.0			QL=2 ST=2 TYP=7
	610	LEAR	49	GB	0807.0E	0812.0	9.0D	4000.0			QL=2 ST=2 TYP=7
	410	SVTO	49	GB	0807.0E	0812.0	11.0D	2400.0			QL=2 ST=2 TYP=7
	500	HIRA	48	C	0807.5	0812.0	15.0	3700.0	300.0		WL
	245	LEAR	49	GB	0808.0E	0810.0	5.0D	5500.0			QL=2 ST=2 TYP=7
	410	LEAR	49	GB	0809.0E	0812.0	4.0D	2700.0			QL=2 ST=2 TYP=7
	234	POTS	4	S/F	0809.0	0810.5	6.6	4500.0			
	810	KRAK	45	C	0818.5E		11.0D	84.0D	28.0D		
	2850	CRIM	3	S	0818.9	0820.0	8.0	82.0	27.0		
	2850	CRIM	26	FAL	0838.5	0853.0	20.0	19.0			
	950	GORK	2	S/F	0845.2	0845.5	0.8	3.0			
	650	GORK	4	S/F	0851.5	0851.8	0.6	40.0			
	950	GORK	1	S	0851.6	0851.8	1.7	8.0			
	9300	KISV	23	GRF	0910.2	0933.5	67.8	21.0			
	5900	KISV	23	GRF	0917.0	1012.7	77.0	26.0			
	1470	POTS	29	PBI	0929.5	0938.5	60.5	13.0			
	2950	GORK	23	GRF	0929.8	0938.4	210.0D	14.6			
	9500	POTS	21	GRF	0930.0	0940.0	90.0	2.0			
	3000	POTS	29	PBI	0930.0U	0938.0U	67.0U	20.0			
	9100	GORK	46	C	0932.7	0941.2		28.0			

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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
25	9100	GORK	46	C	0932.7	0937.7	14.5	56.0			
	2850	CRIM	7	C	0933.0	0938.0		14.0			
	2850	CRIM	7	C	0933.0	0934.0	11.0	8.6	5.0		
	2950	GORK	1	S	0933.2	0933.3	1.8	6.3			
	15000	KISV	20	GRF	0933.5	0939.0	13.6	17.0			
	9300	KISV	4	S/F	0934.2	0937.7	10.3	93.0			
	5900	KISV	4	S/F	0935.7	0937.7	7.3	68.0			
	4995	SVTO	4	S/F	0936.0E	0938.0	5.0D	45.0			QL=2 ST=2 TYP=3
	9500	POTS	4	S/F	0936.5	0939.0	3.5	28.0			
	5900	KISV	4	S/F	1004.0	1006.0	5.3	34.0			
	9100	GORK	3	S	1004.8	1005.9	2.7	30.0			
	9500	POTS	4	S/F	1005.0	1006.0	2.0	21.0			
	950	GORK	46	C	1050.2	1053.1		70.0			
	950	GORK	46	C	1050.2	1052.2	11.1	14.0			
	650	GORK	46	C	1050.2	1052.5		35.0			
	950	GORK	46	C	1050.2	1055.5		20.0			
	650	GORK	46	C	1050.2	1051.8	2.0	25.0			
	810	KRAK	42	SER	1050.3	1053.0	3.0	21.0			
	9100	GORK	46	C	1051.4	1052.1	4.9	83.0			
	9100	GORK	46	C	1051.4	1054.9		58.0			
	2850	CRIM	7	C	1051.5	1052.0	5.0	18.0	5.0		
	2950	GORK	46	C	1051.5	1052.1	4.8	16.4			
	5900	KISV	46	C	1051.5	1053.2		57.0			
	9500	POTS	4	S/F	1051.5	1052.2	5.0	65.0			
	5900	KISV	46	C	1051.5	1052.2	13.7	84.0			
	2850	CRIM	7	C	1051.5	1054.9		12.0			
	2950	GORK	46	C	1051.5	1054.9		10.0			
	5900	KISV	46	C	1051.5	1054.9		54.0			
	15000	KISV	46	C	1051.7	1055.0		26.0			
	15000	KISV	46	C	1051.7	1053.2		26.0			
	15000	KISV	46	C	1051.7	1052.2	12.5	33.0			
	4995	SVTO	8	S	1052.0E	1052.0	U	59.0			QL=2 ST=2 TYP=3
	8800	SVTO	8	S	1052.0E	1052.0	U	62.0			QL=2 ST=2 TYP=3
	1470	POTS	40	F	1055.4E	1055.4U	22.0D	86.0			
	3000	POTS	21	GRF	1100.0U	1145.0U	80.0U	13.0			
	9300	KISV	22	GRF	1106.5	1112.2	11.9	13.0			
	5900	KISV	45	C	1106.5	1123.3		67.0			
	5900	KISV	45	C	1106.5	1124.5	41.5	124.0			
	9500	POTS	21	GRF	1106.6	1127.8	168.0U	49.0			
	950	GORK	46	C	1111.2	1112.4		11.0			
	950	GORK	46	C	1111.2	1111.4	1.5	14.5			
	9100	GORK	46	C	1119.1	1123.2	16.9	106.0			
	9100	GORK	46	C	1119.1	1124.5		85.0			
	9300	KISV	45	C	1119.8	1124.3		187.0			
	9300	KISV	45	C	1119.8	1123.4	64.2	241.0			
	2850	CRIM	7	C	1120.0	1121.0	4.0	9.0	3.0		
	8800	SVTO	4	S/F	1120.0E	1123.0	16.0D	100.0			QL=2 ST=2 TYP=3
	3000	POTS	4	S/F	1120.0U	1121.0U	2.0U	7.0			
	2850	CRIM	7	C	1120.0	1122.1		5.0			
	15000	KISV	2	S/F	1120.3	1123.4	9.7	30.0			
	9500	POTS	4	S/F	1122.5	1123.4	2.5	58.0			
	1470	POTS	21	GRF	1122.6	1132.0	64.0	6.0			
	1470	POTS	3	S	1122.7	1123.2	1.1	16.0			
	15400	SVTO	8	S	1123.0E	1123.0	U	27.0			QL=2 ST=2 TYP=3
	4995	SVTO	20	GRF	1123.0E	1134.0	13.0D	36.0			QL=2 ST=2 TYP=2
	9100	GORK	29	PBI	1136.0	1136.0	45.9	40.0			
	5900	KISV	29	PBI	1148.0E	1148.0	61.0D	36.0			
	9500	POTS	3	S	1206.6	1209.0	13.4	25.0			
	9500	CUBA	2	S/F	1316.0	1316.5	2.0	11.0	5.0		
	9400	HUAN	2	S/F	1319.3	1320.6	4.4	5.6	2.4		
	6700	CUBA	23	GRF	1320.0	1322.0	8.0	10.0	5.0		26R
	9400	HUAN	2	S/F	1334.3	1339.5	7.8	11.3	5.6		
	6700	CUBA	23	GRF	1336.0	1339.0	12.0	13.0	6.0		16R
	15000	CUBA	1	S	1338.1	1338.7	6.7	14.0	7.0		13L
	9400	HUAN	2	S/F	1357.3	1401.8	9.7	17.0	8.4		
	3000	POTS	4	S/F	1401.0E	1401.5U	2.0D	10.0			
	1470	POTS	40	F	1424.7	1435.6	16.3	155.0			
	600	HUMN	2	S/F	1425.0	1428.7	5.5	23.0	6.0		
	9400	HUAN	45	C	1425.0	1428.8	12.6	241.2	114.6		

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

MARCH 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	40	F	1426.0E	1428.5U	14.0D	158.0			
	6700	CUBA	46	C	1426.6	1429.0	23.0	314.0	49.0		65R
	15000	CUBA	4	S/F	1426.6	1428.9	6.4	145.0	32.0		80L
	2800	OTTA	4	S/F	1426.8	1428.9	23.0	165.8	33.0		
	15400	SGMR	4	S/F	1427.0E	1428.0	8.0D	93.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1427.0E	1428.0	8.0D	200.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1427.0E	1428.0	8.0D	300.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1427.0E	1428.0	8.0D	140.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1427.0E	1435.0	8.0D	260.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1427.0E	1428.0	8.0D	220.0			QL=2 ST=2 TYP=3
	2695	SVTO	4	S/F	1427.0E	1428.0	8.0D	150.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	1427.0E	1428.0	8.0D	330.0			QL=2 ST=2 TYP=3
	610	SGMR	4	S/F	1427.0E	1435.0	10.0D	70.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1427.0E	1435.0	10.0D	620.0			QL=2 ST=2 TYP=6
	610	SVTO	4	S/F	1427.0E	1435.0	10.0D	75.0			QL=2 ST=2 TYP=3
	1415	SVTO	4	S/F	1427.0E	1435.0	10.0D	250.0			QL=2 ST=2 TYP=3
	9500	POTS	4	S/F	1427.0	1428.6	18.0	200.0			
	9500	CUBA	46	C	1427.0	1428.8	12.0	166.0	41.0		
	808	ONDR	46	C	1427.5	1435.5	11.5	832.0			
	410	SVTO	49	GB	1428.0E	1435.0	9.0D	2300.0			QL=2 ST=2 TYP=6
	15000	CUBA	1	S	1428.5	1459.3	31.7	32.0	16.0		66L
	600	HUMN	2	S/F	1432.5	1435.8	4.4	25.0	4.0		
	15000	CUBA	29	PBI	1433.0		16.6	25.0	12.0		27L
	410	SGMR	49	GB	1435.0E	1435.0	2.0D	1400.0			QL=2 ST=2 TYP=6
	280	CUBA	6	S	1435.9	1436.3	1.1	2230.0			
	235	CUBA	6	S	1435.9	1436.3	1.1	832.0			
	9400	HUAN	30	PBI	1437.6	1437.6	112.1	24.5	12.1		
	9500	CUBA	30	PBI	1439.0		16.0	15.0	7.0		
	9500	CUBA	2	S/F	1442.8	1443.2	5.2	12.0	6.0		
	9400	HUAN	4	S/F	1457.7	1459.3	3.4	62.2	28.6		
	410	SGMR	8	S	1458.0E	1458.0	1.0D	180.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	1458.0E	1459.0	4.0D	510.0			QL=2 ST=2 TYP=6
	8800	SGMR	8	S	1458.0E	1459.0	1.0D	53.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1458.0E	1459.0	1.0D	27.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1458.0E	1458.0	1.0D	360.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1458.0E	1459.0	1.0D	460.0			QL=2 ST=2 TYP=3
	9500	POTS	4	S/F	1458.2	1459.2	2.8	58.0			
	280	CUBA	6	S	1458.4	1459.0	1.6	248.0D			
	235	CUBA	6	S	1458.4	1459.0	1.6	213.0			
	1470	POTS	3	S	1458.4	1459.1	3.6	9.0			
	6700	CUBA	1	S	1458.4	1459.2	3.0	36.0	18.0		38R
	9500	CUBA	2	S/F	1458.4	1459.2	1.8	43.0	21.0		
	6700	CUBA	21	GRF	1540.0	1550.0	20.0	39.0	19.0		4R
	15000	CUBA	21	GRF	1544.7	1553.0	14.9	146.0	73.0		2L
	9400	HUAN	4	S/F	1545.0	1548.2	12.2	128.1	56.8		
	9500	CUBA	46	C	1545.3	1548.9	15.0	122.0	25.0		
	6700	CUBA	2	S/F	1546.5	1548.0	2.2	72.0	35.0		12R
	2800	OTTA	4	S/F	1546.9	1548.1	9.9	322.6	32.0		
	410	SGMR	8	S	1547.0E	1548.0	1.0D	280.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	1547.0E	1547.0	5.0D	2200.0			QL=2 ST=2 TYP=6
	15400	SVTO	8	S	1547.0E	1548.0	1.0D	84.0			QL=2 ST=2 TYP=3
	15000	CUBA	2	S/F	1547.2	1547.9	2.2	108.0	54.0		38L
	280	CUBA	6	S	1547.4	1547.9	1.7	1121.0			
	235	CUBA	6	S	1547.4	1547.9	1.7	408.0			
	15000	CUBA	1	S	1557.4	1558.0	2.1	10.0	5.0		33L
	6700	CUBA	23	GRF	1609.0	1615.0	12.0	25.0	12.0		51R
	9500	CUBA	23	GRF	1609.0	1614.0	14.0	30.0	15.0		
	9400	HUAN	2	S/F	1612.4	1614.6	6.2	9.4	3.8		
	610	SGMR	8	S	1613.0E	1613.0	U	83.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1613.9	1614.0	1.3	10.0	5.0		67L
	610	SGMR	4	S/F	1635.0E	1636.0	3.0D	370.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1635.0E	1636.0	3.0D	740.0			QL=2 ST=2 TYP=6
	245	SGMR	8	S	1635.0E	1635.0	U	430.0			QL=2 ST=2 TYP=3
	1415	SVTO	8	S	1635.0E	1635.0	1.0D	84.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	1635.0E	1636.0	2.0D	730.0			QL=2 ST=2 TYP=6
	245	SVTO	8	S	1635.0E	1635.0	1.0D	420.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1635.0E	1636.0	1.0D	42.0			QL=2 ST=2 TYP=3
	610	SVTO	8	S	1635.0E	1636.0	2.0D	240.0			QL=2 ST=2 TYP=3
	2800	OTTA	3	S	1635.6	1635.9	4.8	24.7	5.0		

S O L A R R A D I O E M I S S I O N
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MARCH 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	9400	HUAN	1	S	1641.2	1643.7	5.6	7.5	2.9		
	9400	HUAN	1	S	1655.5	1658.3	6.7	8.5	3.4		
	6700	CUBA	1	S	1657.8	1658.2	1.6	13.0	6.0		60R
	15000	CUBA	1	S	1731.9	1732.6	2.4	15.0	7.0		44L
	9400	HUAN	1	S	1735.0	1737.2	7.0	5.6	2.4		
	9400	HUAN	23	GRF	1805.9	1946.5	165.6	24.5	10.6		
	15400	PALE	4	S/F	1824.0E	1825.0	3.0D	160.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1824.0E	1825.0	2.0D	250.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1824.0E	1825.0	2.0D	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1824.0E	1825.0	3.0D	250.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1824.0E	1825.0	3.0D	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1824.0E	1825.0	2.0D	150.0			QL=2 ST=2 TYP=3
	9500	CUBA	46	C	1824.2	1825.5	5.8	210.0	29.0		
	9400	HUAN	4	S/F	1824.5	1825.3	3.7	271.3	114.2		
	6700	CUBA	45	C	1824.7	1825.5	3.8	184.0	92.0		28R
	15000	CUBA	2	S/F	1824.7	1825.9	3.1	211.0	105.0		ML
	2800	OTTA	3	S	1824.8	1825.6	6.8	36.3	7.0		
	2695	SGMR	8	S	1825.0E	1825.0	U	37.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1825.0E	1827.0	2.0D	36.0			QL=2 ST=2 TYP=3
	15000	CUBA	45	C	1834.0	1839.0	8.1	52.0	10.0		34L
	6700	CUBA	23	GRF	1834.0	1836.0	10.0	41.0	20.0		36R
	9400	HUAN	4	S/F	1834.4	1836.6	5.9	47.1	34.6		
	9500	CUBA	2	S/F	1834.9	1836.5	5.9	42.0	20.0		
	4995	SGMR	8	S	1835.0E	1835.0	2.0D	45.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1835.0E	1836.0	2.0D	52.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	1838.0E	1839.0	2.0D	480.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1838.0E	1839.0	1.0D	1400.0			QL=2 ST=2 TYP=6
	410	SGMR	49	GB	1838.0E	1838.0	2.0D	920.0			QL=2 ST=2 TYP=6
	245	SGMR	49	GB	1838.0E	1838.0	2.0D	1700.0			QL=2 ST=2 TYP=6
	6700	CUBA	46	C	1847.0	1858.1	16.0	342.0			SR 1856-1857DOW
	9400	HUAN	4	S/F	1852.6	1853.8	11.4	254.4	120.4		
	9500	CUBA	3	S	1855.7	1858.5	7.8	205.0	29.0		
	4995	SGMR	4	S/F	1856.0E	1858.0	7.0D	350.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1856.0U	1858.6	7.0U	126.0	69.0		45L
	4995	PALE	4	S/F	1857.0E	1858.0	4.0D	350.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1857.0E	1858.0	2.0D	120.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1857.0E	1858.0	4.0D	340.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1857.0E	1858.0	2.0D	51.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1857.0E	1858.0	2.0D	120.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	1857.2	1857.6	10.8	135.1	27.0		
	15400	PALE	8	S	1858.0E	1858.0	1.0D	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1858.0E	1859.0	1.0D	170.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1858.0E	1859.0	1.0D	44.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1858.0E	1858.0	1.0D	45.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1858.0E	1859.0	1.0D	160.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1858.0E	1858.0	5.0D	260.0			QL=2 ST=2 TYP=3
	15400	SGMR	8	S	1858.0E	1858.0	1.0D	71.0			QL=2 ST=2 TYP=3
	6700	CUBA	30	PBI	1903.0		96.0	15.0	7.0		22R
	15000	CUBA	1	S	1919.2	1920.0	2.7	12.0	6.0		43L
	9500	CUBA	42	SER	1919.9	1922.2	15.6	47.0			
	8800	SGMR	4	S/F	1920.0E	1922.0	4.0D	68.0			QL=2 ST=2 TYP=3
	9400	HUAN	4	S/F	1920.1	1922.0	15.1	52.3	21.4		
	9400	HUAN	4	S/F	1920.1	1928.9		49.0			
	8800	PALE	8	S	1921.0E	1922.0	2.0D	70.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1921.0E	1922.0	3.0D	47.0			QL=4 ST=2 TYP=3
	15000	CUBA	1	S	1921.8	1922.2	1.8	12.0	6.0		50L
	8800	SGMR	4	S/F	1926.0E	1928.0	7.0D	62.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1926.0E	1928.0	7.0D	78.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1927.0	1928.7	3.0	39.0	19.0		51R
	280	CUBA	7	C	1935.8	1937.4	2.3	735.0			
	235	CUBA	7	C	1935.8	1937.4	213.0	296.0			
	9500	CUBA	23	GRF	1936.0	1944.0	40.0	24.0	12.0		
	9400	HUAN	21	GRF	2201.3	2220.2	31.4	39.6	16.8		
	6700	CUBA	21	GRF	2214.0	2216.0	12.0	6.0	3.0		51R
	4995	PALE	8	S	2218.0E	2218.0	1.0D	84.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2218.0E	2218.0	1.0D	57.0			QL=2 ST=2 TYP=3
	6700	CUBA	2	S/F	2218.0	2218.8	5.0	41.0	20.0		45R
	9500	CUBA	2	S/F	2218.0	2218.9	4.0	11.0	5.0		
	15000	CUBA	1	S	2218.5	2219.5	2.2	11.0	5.0		28L

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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	410	SGMR	8	S	2229.0E	2229.0	1.0D	290.0			QL=2 ST=2 TYP=3
	410	SGMR	49	GB	2239.0E	2239.0	U	1000.0			QL=2 ST=2 TYP=6
26	100	GORK	44	NS	0419.0E		520.0D		80.0		
	200	GORK	44	NS	0420.0E		520.0D		30.0		
	245	SVTO	43	NS	0503.0	0900.0	702.0D	650.0			QL=2 ST=2 TYP=1
	113	POTS	44	NS	0540.0E	0603.0U	570.0D	2800.0			
	30	POTS	44	NS	0540.0E	1102.0U	580.0D	U			
	234	POTS	44	NS	0545.0E	0850.0U	565.0D	550.0U			
	204	IZMI	43	NS	0600.0		360.0	750.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	127	TORN	44	NS	0620.0E		520.0D		1660.0		V=0
	430	KRAK	44	NS	0753.0E	0823.5	370.0D	160.0D	20.0		
	410	SVTO	44	NS	0755.0E	0807.0U	530.0D	150.0			QL=2 ST=2 TYP=1
	600	HUMN	43	NS	0805.0		540.0D	6.0			
	536	ONDR	44	NS	0830.0E	1424.0	390.0D	360.0			
	245	SGMR	44	NS	1057.0E	1600.0	703.0D	780.0			QL=2 ST=2 TYP=1
	410	SGMR	44	NS	1308.0E	1404.0	572.0D	92.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1310.0E		480.0D		298.0		
	280	CUBA	44	NS	1310.0E		480.0D		205.0		
	245	PALE	44	NS	1650.0E	0106.0	698.0D	650.0			QL=4 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	0003.0	700.0D	150.0	20.0		SR
	100	HIRA	44	NS	2100.0E	0825.0	700.0D	900.0	550.0		SR
	245	LEAR	44	NS	2245.0E	0313.0	688.0D	1400.0			QL=2 ST=2 TYP=1
	410	LEAR	44	NS	2336.0E	2350.0	204.0D	160.0			QL=4 ST=2 TYP=1
	15400	LEAR	8	S	0103.0E	0104.0	1.0D	76.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0103.0E	0104.0	1.0D	68.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0103.0	0104.2	3.0	13.2			
	17000	NOBE	2	S/F	0103.8	0104.1	3.0	64.0			L,80,35GHz:0
	245	LEAR	49	GB	0104.0E	0104.0	U	1000.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0104.0E	0104.0	U	750.0			QL=2 ST=2 TYP=6
	410	PALE	8	S	0104.0E	0104.0	U	68.0			QL=2 ST=2 TYP=3
	500	HIRA	42	SER	0104.5	0104.9	10.5	130.0			WR
	2840	PEKG	5	S	0109.0	0111.5	4.0	15.4			
	610	LEAR	8	S	0111.0E	0111.0	U	53.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0111.0E	0111.0	U	39.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0111.0E	0111.0	U	91.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0111.0E	0111.0	U	220.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	0111.0E	0111.0	U	73.0			QL=2 ST=2 TYP=3
	1415	PALE	8	S	0111.0E	0111.0	U	44.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0111.0E	0111.0	U	190.0			QL=2 ST=2 TYP=3
	245	LEAR	4	S/F	0130.0E	0130.0	10.0D	94.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0133.0E	0134.0	1.0D	22.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0142.0	0143.9	4.0	19.1			
	410	PALE	8	S	0143.0E	0143.0	1.0D	230.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0143.0E	0144.0	1.0D	110.0			QL=2 ST=2 TYP=3
	2840	PEKG	5	S	0155.0	0156.1	2.0	17.6			
	100	GORK	3	S	0419.4	0420.2	1.9	4600.0			
	200	GORK	3	S	0419.5	0420.0	1.0	160.0			
	2840	PEKG	5	S	0426.0	0427.3	7.0	15.9			
	9100	GORK	23	GRF	0433.0E	0942.8	507.0D	23.0			
	9300	KISV	23	GRF	0511.9	0521.3	25.8	17.0			
	9300	KISV	4	S/F	0511.9	0513.5	6.1	132.0			
	15400	LEAR	8	S	0512.0E	0513.0	2.0D	110.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0512.0E	0513.0	2.0D	82.0			QL=4 ST=2 TYP=3
	5900	KISV	4	S/F	0512.0	0513.5	7.9	43.0			
	9100	GORK	3	S	0512.4	0513.2	3.7	94.0			
	35000	NOBE	3	S	0512.7	0513.4	2.0	60.0			O
	80000	NOBE	3	S	0512.7	0513.4	1.5	27.0			
	17000	NOBE	4	S/F	0512.7	0513.4	3.0	75.0			L
	15000	KISV	4	S/F	0512.8	0513.5	4.4	197.0			
	2950	GORK	1	S	0527.1	0528.6	3.2	4.3			
	245	SVTO	49	GB	0528.0E	0528.0	U	850.0			QL=2 ST=2 TYP=6
	5900	KISV	2	S/F	0528.0	0528.7	6.0	18.0			
	9300	KISV	2	S/F	0528.0	0528.9	5.8	15.0			
	650	GORK	23	GRF	0545.0	0858.0	435.0	13.0			
	2850	CRIM	21	GRF	0546.5	0646.0	89.0	10.0	3.0		
	2950	GORK	21	GRF	0617.3	0807.2	137.0	10.0			
	9300	KISV	1	S	0629.3	0630.2	1.2	10.0			

S O L A R R A D I O E M I S S I O N
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MARCH 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	9300	KISV	23	GRF	0635.2	0652.0	52.8	13.0			
	5900	KISV	23	GRF	0635.3	0636.7	24.2	7.0			
	2840	PEKG	45	C	0639.0	0643.8	8.0	29.7			
	15000	KISV	23	GRF	0640.5	0652.0	25.5	12.0			
	9300	KISV	4	S/F	0640.5	0643.8	6.9	49.0			
	2850	CRIM	3	S	0640.6	0643.7	5.0	39.0	10.0		
	9100	GORK	2	S/F	0640.8	0643.6	42.0	27.0			
	5900	KISV	4	S/F	0640.9	0643.7	6.7	57.0			
	3013	IZMI	7	C	0641.0	0644.0		14.0	7.0		
	2950	GORK	1	S	0641.0	0643.9	4.0	27.0			
	950	GORK	2	S/F	0641.8	0644.0	3.5	7.0			
	650	GORK	2	S/F	0641.8	0643.7	3.5	8.0			
	2695	LEAR	8	S	0643.0E	0643.0	1.0D	29.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0643.0E	0643.0	1.0D	37.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0644.0E	0655.0	25.0D	3700.0			QL=2 ST=2 TYP=7
	245	SVTO	49	GB	0654.0E	0655.0	2.0D	3500.0			QL=2 ST=2 TYP=6
	9300	KISV	45	C	0654.3	0655.4		39.0			
	9300	KISV	45	C	0654.3	0656.4	5.2	40.0			
	15000	KISV	45	C	0654.5	0655.2	4.3	39.0			
	15000	KISV	45	C	0654.5	0655.8		36.0			
	9500	POTS	4	S/F	0654.6	0655.8	3.9	29.0			
	234	POTS	4	S/F	0654.7	0655.2	1.0	6500.0			
	9100	GORK	2	S/F	0654.7	0655.3	3.9	23.0			
	5900	KISV	2	S/F	0654.7	0656.4	4.0	26.0			
	2850	CRIM	1	S	0654.8	0655.4	3.0	7.0	2.0		
	2950	GORK	2	S/F	0655.0	0655.2	2.6	10.0			
	15400	LEAR	8	S	0655.0E	0655.0	U	32.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0655.0E	0655.0	U	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0655.0E	0655.0	U	23.0			QL=4 ST=2 TYP=3
	3013	IZMI	5	S	0655.0	0655.5	4.0	5.0	3.0		
	650	GORK	1	S	0655.0	0655.9	3.0	6.5			
	950	GORK	1	S	0655.1	0655.9	3.7	5.0			
	9300	KISV	45	C	0709.5	0710.2	5.8	17.0			
	9300	KISV	45	C	0709.5	0712.5		15.0			
	950	GORK	45	C	0709.6	0710.8		3.5			
	950	GORK	45	C	0709.6	0709.8	1.2	3.0			
	5900	KISV	45	C	0709.7	0710.2	4.9	9.0			
	5900	KISV	45	C	0709.7	0712.4		7.0			
	2850	CRIM	8	S	0710.0	0710.1	0.3	23.0			
	2850	CRIM	8	S	0738.9	0739.0	0.3	45.0			
	5900	KISV	4	S/F	0758.5	0800.0	6.0	33.0			
	9300	KISV	2	S/F	0758.5	0800.0	5.9	28.0			
	9300	KISV	23	GRF	0758.5	0810.6	30.9	17.0			
	5900	KISV	23	GRF	0758.5	0811.7	34.5	19.0			
	3000	POTS	21	GRF	0758.5	0811.7	32.0D	13.0			
	2850	CRIM	30	PBI	0758.6	0802.0	18.0	8.0	3.0		
	2850	CRIM	1	S	0758.6	0759.8	3.0	22.0	7.0		
	9100	GORK	2	S/F	0758.8	0800.5	3.4	27.0			
	9500	POTS	21	GRF	0758.8	0810.5	31.2	18.0			
	2950	GORK	1	S	0759.0	0800.0	2.9	17.0			
	3013	IZMI	22	GRF	0759.0	0800.0	27.0	17.0			
	3000	POTS	3	S	0759.2	0800.0	2.5	18.0			
	9500	POTS	1	S	0759.4	0800.0	1.6	10.0			
	950	GORK	23	GRF	0759.8	0812.0	27.2	4.0			
	2850	CRIM	40	F	0806.0	0807.0	7.0	12.0			
	810	KRAK	2	S/F	0806.8	0807.5	1.1	68.0	11.0		
	650	GORK	45	C	0807.0	0807.2	0.7	20.0			
	650	GORK	45	C	0807.0	0807.7		30.0			
	1470	POTS	4	S/F	0811.2	0811.4	1.1	19.0			
	9300	KISV	45	C	0816.4	0824.0		40.0			
	9300	KISV	45	C	0816.4	0819.3	9.1	41.0			
	9100	GORK	46	C	0817.0	0824.0		30.0			
	9100	GORK	46	C	0817.0	0819.3	8.0	35.0			
	15000	KISV	2	S/F	0818.3	0819.3	3.3	15.0			
	9500	POTS	4	S/F	0818.5	0819.4	1.5	27.0			
	2950	GORK	1	S	0819.2	0820.9	2.5	10.0			
	2850	CRIM	7	C	0820.0	0824.0		16.0			
	2850	CRIM	7	C	0820.0	0820.5	6.0	5.0	5.0		
	245	LEAR	49	GB	0821.0E	0823.0	10.0D	1900.0			QL=2 ST=2 TYP=7

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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
26	100	GORK	4	S/F	0822.4	0824.0	1.8	18000.0			
	5900	KISV	4	S/F	0822.5	0824.0	2.2	31.0			
	200	GORK	4	S/F	0823.0	0824.0	1.7	3400.0			
	410	LEAR	8	S	0823.0E	0823.0	1.0D	410.0			QL=2 ST=2 TYP=3
	3000	POTS	3	S	0823.0	0824.0	1.7	14.0			
	9500	POTS	4	S/F	0823.0	0824.0	1.5	18.0			
	610	SVTO	8	S	0823.0E	0824.0	1.0D	46.0			QL=2 ST=2 TYP=3
	410	SVTO	49	GB	0823.0E	0823.0	937.0D	1100.0			QL=2 ST=3 TYP=6
	245	SVTO	49	GB	0823.0E	0824.0	937.0D	1000.0			QL=2 ST=3 TYP=6
	1470	POTS	4	S/F	0823.2	0824.3	1.8	14.0			
	650	GORK	4	S/F	0823.3	0824.0	1.3	35.0			
	2950	GORK	2	S/F	0823.3	0824.0	1.3	10.0			
	15000	KISV	2	S/F	0823.4	0824.2	1.7	15.0			
	810	KRAK	2	S/F	0823.4	0823.5	0.8	45.0	7.0		
	9300	KISV	2	S/F	0847.0	0849.1	3.4	7.0			
	2695	LEAR	8	S	0910.0E	0910.0	U	22.0			QL=2 ST=2 TYP=3
	9300	KISV	4	S/F	0918.0	0931.9	27.0	105.0			
	2950	GORK	21	GRF	0919.0	0956.0	73.0	10.0			
	3000	POTS	21	GRF	0920.0E	0942.5	24.5D	10.0			
	9500	POTS	21	GRF	0920.0	0942.8	77.0	19.0			
	9500	POTS	40	F	0922.2	0931.8	16.3	75.0			
	5900	KISV	46	C	0922.3	0929.4		55.0			
	5900	KISV	46	C	0922.3	0932.4		87.0			
	5900	KISV	46	C	0922.3	0935.4		68.0			
	5900	KISV	46	C	0922.3	0931.7	23.0	96.0			
	9100	GORK	46	C	0923.2	0929.4	17.8	70.0			
	9100	GORK	46	C	0923.2	0931.8		96.0			
	3013	IZMI	22	GRF	0925.0	0933.0	13.5	24.0			
	2850	CRIM	7	C	0926.0	0935.4		13.0			
	2850	CRIM	7	C	0926.0	0929.4	12.0	18.0	8.0		
	15000	KISV	45	C	0926.0	0929.4	11.0	39.0			
	2850	CRIM	7	C	0926.0	0932.5		27.0			
	15000	KISV	45	C	0926.0	0931.8		35.0			
	1470	POTS	40	F	0927.5	0931.0	10.0	36.0			
	650	GORK	46	C	0927.8	0932.4		14.0			
	650	GORK	46	C	0927.8	0929.5	9.7	14.0			
	650	GORK	46	C	0927.8	0929.5		19.0			
	4995	LEAR	4	S/F	0928.0E	0931.0	8.0D	58.0			QL=4 ST=2 TYP=5
	8800	LEAR	4	S/F	0928.0E	0931.0	5.0D	67.0			QL=4 ST=2 TYP=5
	4995	SVTO	4	S/F	0928.0E	0931.0	6.0D	51.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0928.0E	0931.0	6.0D	70.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	0928.6	0932.4		21.0			
	2950	GORK	46	C	0928.6	0929.4	8.0	12.0			
	3000	POTS	40	F	0928.6	0932.4	8.4	23.0			
	2950	GORK	46	C	0928.6	0935.5		9.2			
	950	GORK	46	C	0928.8	0932.4		40.0			
	950	GORK	46	C	0928.8	0929.5	7.7	9.0			
	950	GORK	46	C	0928.8	0934.6		7.0			
	200	GORK	46	C	0931.0	0932.1		950.0			
	200	GORK	46	C	0931.0	0931.6	2.5	940.0			
	9300	KISV	4	S/F	0949.0	0951.5	22.0	139.0			
	9100	GORK	46	C	0949.9	0955.0		30.0			
	9100	GORK	46	C	0949.9	0951.5	11.0	125.0			
	9500	POTS	4	S/F	0950.5	0951.5	10.0	99.0			
	5900	KISV	4	S/F	0951.0	0952.0	7.0	111.0			
	4995	LEAR	8	S	0951.0E	0951.0	U	48.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0951.0E	0951.0	U	77.0			QL=4 ST=2 TYP=3
	5900	KISV	30	PBI	0951.0	0958.0	29.0	21.0			
	3000	POTS	4	S/F	0951.0	0951.5	2.2	15.0			
	2850	CRIM	1	S	0951.0	0951.6	2.0	15.0	5.0		
	15000	KISV	4	S/F	0951.0	0951.6	4.0	64.0			
	3013	IZMI	5	S	0951.0	0951.8	2.0	15.0	7.0		
	1470	POTS	40	F	0951.0	0951.9	14.0	14.0			
	2950	GORK	1	S	0951.2	0951.5	1.7	12.3			
	5900	KISV	2	S/F	1004.0	1004.5	2.5	16.0			
	9300	KISV	3	S	1019.0	1020.3	4.0	54.0			
	9500	POTS	3	S	1019.4	1020.2	3.6	52.0			
	9100	GORK	3	S	1019.5	1020.2	2.8	52.0			
	5900	KISV	2	S/F	1019.7	1020.3	2.0	16.0			

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MARCH 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	8800	SVTO	8	S	1020.0E	1020.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1020.0E	1021.0	1.0D	600.0			QL=2 ST=2 TYP=6
	15000	KISV	1	S	1049.5	1050.3	2.0	23.0			
	2950	GORK	1	S	1052.8	1053.2	1.1	3.7			
	5900	KISV	2	S/F	1102.5	1103.2	4.0	7.0			
	9300	KISV	1	S	1118.0	1119.0	3.0	10.0			
	5900	KISV	2	S/F	1132.0	1135.9	8.0	10.0			
	9300	KISV	22	GRF	1132.5	1135.9	8.0	11.0			
	9300	KISV	2	S/F	1144.0	1148.4	6.0	11.0			
	9300	KISV	2	S/F	1216.0	1224.0	12.0	34.0			
	9500	POTS	42	SER	1220.0	1233.0	25.0	38.0			
	9400	HUAN	1	S	1222.0	1224.0	5.3	22.4	8.6		
	9100	GORK	1	S	1223.0	1224.0	3.0	20.0			
	5900	KISV	2	S/F	1223.0	1224.0	5.0	19.0			
	9300	KISV	4	S/F	1231.0	1233.1	14.0	50.0			
	9400	HUAN	4	S/F	1231.3	1233.0	8.6	41.0	18.8		
	5900	KISV	22	GRF	1231.7	1235.7	18.0	26.0			
	9100	GORK	2	S/F	1232.0	1233.2	7.0	40.0			
	3000	POTS	1	S	1240.5	1241.8	2.5	7.0			
	2950	GORK	2	S/F	1240.8	1241.4	4.9	6.0			
	2850	CRIM	1	S	1240.9	1241.5	2.8	7.0	2.0		
	9400	HUAN	1	S	1244.2	1245.6	4.3	9.3	4.6		
	9300	KISV	2	S/F	1257.5	1258.5	5.0	13.0			
	6700	CUBA	21	GRF	1313.0	1410.0	64.0	17.0	8.0		00R
	9400	HUAN	23	GRF	1319.4	1413.0	100.3	18.6	9.4		
	2800	OTTA	22	GRF	1319.5	1420.0	105.0	15.1	6.0		
	6700	CUBA	1	S	1328.1	1329.0	4.9	7.0	3.0		24R
	1470	POTS	40	F	1401.0	1402.0U	37.0U	38.0			
	9500	CUBA	23	GRF	1403.0	1405.0	34.0	21.0	10.0		
	3000	POTS	23	GRF	1403.7	1405.4	46.3	38.0			
	9500	POTS	22	GRF	1403.8	1404.9	32.8	30.0			
	9400	HUAN	4	S/F	1404.2	1407.0	6.4	29.8	14.6		
	6700	CUBA	2	S/F	1405.0E	1405.8	3.0D	17.0			68R 1403-1405OF
	6700	CUBA	2	S/F	1410.0	1410.9	1.5	8.0	4.0		26R
	6700	CUBA	2	S/F	1413.1	1414.0	1.9	5.0	2.0		85R
	9400	HUAN	1	S	1417.9	1419.6	3.5	12.1	7.4		
	113	POTS	42	SER	1418.0	1424.6	11.0	U			
	30	POTS	4	S/F	1418.1	1424.5	10.9	12000.0U			
	6700	CUBA	2	S/F	1418.1	1419.9	3.9	40.0	20.0		37R
	234	POTS	42	SER	1420.7	1424.5	5.9	3800.0			
	610	SGMR	4	S/F	1423.0E	1424.0	3.0D	68.0			QL=2 ST=3 TYP=3
	410	SGMR	49	GB	1423.0E	1424.0	3.0D	560.0			QL=2 ST=3 TYP=6
	245	SGMR	49	GB	1423.0E	1424.0	3.0D	2100.0			QL=2 ST=3 TYP=6
	245	SVTO	49	GB	1424.0E	1424.0	1.0D	2000.0			QL=2 ST=2 TYP=6
	410	SVTO	49	GB	1424.0E	1424.0	U	600.0			QL=2 ST=2 TYP=6
	9400	HUAN	1	S	1447.2	1452.0	9.3	11.2	6.1		
	6700	CUBA	2	S/F	1451.0	1453.5	4.9	10.0	5.0		28R
	6700	CUBA	21	GRF	1548.0	1623.0	131.0	47.0	23.0		12R
	9400	HUAN	23	GRF	1549.1	1625.0	76.1	37.3	14.8		
	15000	CUBA	20	GRF	1606.0U	1615.0	55.0U	30.0	15.0		46L
	9500	CUBA	21	GRF	1608.0	1615.0	54.0	31.0	15.0		
	2800	OTTA	4	S/F	1610.2	1614.6	9.5	34.1	14.0		
	4995	SGMR	4	S/F	1612.0E	1614.0	9.0D	94.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1612.0E	1614.0	3.0D	35.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1612.0E	1613.0	3.0D	46.0			QL=2 ST=2 TYP=3
	9400	HUAN	4	S/F	1612.4	1614.5	5.8	63.4	29.8		
	9500	CUBA	2	S/F	1612.5	1614.8	4.5	49.0	24.0		
	8800	SGMR	4	S/F	1613.0E	1614.0	8.0D	73.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1613.5	1614.8	8.5	67.0	21.0		39R
	4995	SVTO	8	S	1614.0E	1614.0	2.0D	66.0			QL=2 ST=2 TYP=3
	2800	OTTA	29	PBI	1620.0	1620.0	140.0	10.8	5.0		
	2800	OTTA	3	S	1631.0	1634.0	8.5	17.3	3.0		
	9400	HUAN	1	S	1631.3	1633.8	5.7	13.0	5.9		
	6700	CUBA	2	S/F	1631.5E	1634.5	3.0D	16.0	8.0		47R
	9400	HUAN	1	S	1741.0	1744.1	7.0	11.2	5.6		
	9400	HUAN	1	S	1849.2	1851.3	7.2	5.6	2.4		
	6700	CUBA	46	C	2010.1	2014.8	9.9	34.0	12.0		13R
	9400	HUAN	4	S/F	2010.8	2014.8	9.0	35.4	20.2		
	245	PALE	49	GB	2025.0E	2027.0	12.0D				QL=4 ST=2 TYP=7

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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
26	4995	PALE	49	GB	2025.0E	2029.0	15.0D	7100.0			QL=4 ST=2 TYP=7
	245	SGMR	49	GB	2025.0E	2027.0	19.0D				QL=2 ST=2 TYP=7
	2695	SGMR	49	GB	2025.0E	2029.0	16.0D	5300.0			QL=4 ST=2 TYP=7
	4995	SGMR	49	GB	2025.0E	2029.0	19.0D	7100.0			QL=4 ST=2 TYP=7
	8800	SGMR	49	GB	2025.0E	2029.0	19.0D	15000.0			QL=4 ST=2 TYP=7
	8800	PALE	49	GB	2025.0E	2029.0	20.0D	15000.0			QL=4 ST=2 TYP=7
	9500	CUBA	47	GB	2025.2	2029.0	17.8	4349.0			
	6700	CUBA	47	GB	2025.3	2028.0U	17.7	1548.0D			47R
	6700	CUBA	47	GB	2025.3	2025.5		355.0			12R
	2800	OTTA	47	GB	2025.6	2029.1	35.0	4865.0	973.0		
	15000	CUBA	47	GB	2025.7	2028.1	28.9	16045.0			29L
	2695	PALE	49	GB	2026.0E	2029.0	13.0D	5200.0			QL=4 ST=2 TYP=7
	15400	PALE	49	GB	2026.0E	2029.0	17.0D	16000.0			QL=4 ST=2 TYP=7
	610	PALE	49	GB	2026.0E	2031.0	15.0D	2300.0			QL=4 ST=2 TYP=7
	410	PALE	49	GB	2026.0E	2031.0	14.0D	2600.0			QL=4 ST=2 TYP=7
	1415	SGMR	49	GB	2026.0E	2027.0	18.0D	4100.0			QL=4 ST=2 TYP=7
	610	SGMR	49	GB	2026.0E	2031.0	18.0D	2100.0			QL=4 ST=2 TYP=7
	410	SGMR	49	GB	2026.0E	2031.0	18.0D	3200.0			QL=2 ST=2 TYP=7
	15400	SGMR	49	GB	2026.0E	2029.0	18.0D	19000.0			QL=4 ST=2 TYP=7
	235	CUBA	48	C	2026.2	2029.0U	9.3	24503.0D			
	280	CUBA	48	C	2026.2	2029.0U	9.3	7654.0D			
	6700	CUBA	29	PBI	2043.0		8.0	17.0	8.0		19R
	9500	CUBA	29	PBI	2043.0		14.0	17.0	8.0		
	9400	HUAN	20	GRF	2132.6	2159.0	53.5	14.0	7.8		
27	100	GORK	44	NS	0430.0E		510.0D		90.0		
	200	GORK	44	NS	0430.0E		510.0D		5.0		
	245	SVTO	44	NS	0502.0E	1404.0	704.0D	400.0			QL=4 ST=2 TYP=1
	40	POTS	44	NS	0550.0E	U	567.0D	U			
	113	POTS	44	NS	0550.0E	1016.5	556.0D	2000.0			
	204	IZMI	43	NS	0600.0		360.0	200.0			
	33	UPIC	44	NS	0600.0E		600.0D				
	234	POTS	44	NS	0600.0E	1333.7	547.0D	320.0			
	127	TORN	44	NS	0620.0E		520.0D		1830.0		V=1
	430	KRAK	44	NS	0753.5E	1214.5	367.0D	170.0D	24.0		
	410	SVTO	44	NS	0829.0E	1328.0	497.0D	200.0			QL=4 ST=2 TYP=1
	600	HUMN	43	NS	1011.0		420.0D	6.0			
	410	SGMR	44	NS	1055.0E	1502.0	706.0D	200.0			QL=2 ST=2 TYP=1
	245	SGMR	44	NS	1055.0E	2127.0	706.0D	370.0			QL=2 ST=2 TYP=1
	235	CUBA	44	NS	1305.0E		535.0D		224.0		
	280	CUBA	44	NS	1305.0E		535.0D		172.0		
	245	PALE	43	NS	1650.0	0153.0	699.0	400.0			QL=2 ST=2 TYP=1
	200	HIRA	44	NS	2100.0E	2107.0	700.0D	200.0	50.0		SR
	100	HIRA	44	NS	2100.0E	2156.0	700.0D	650.0	350.0		SR
	410	LEAR	44	NS	2324.0E	0127.0	354.0D	83.0			QL=2 ST=2 TYP=1
	245	LEAR	44	NS	2324.0E	2345.0	648.0D	170.0			QL=2 ST=2 TYP=1
	2840	PEKG	5	S	0052.0	0053.2	4.0	14.2			
	245	PALE	49	GB	0313.0E	0313.0	U	1100.0			QL=2 ST=2 TYP=6
	9100	GORK	23	GRF	0442.0U	0817.7	312.0D	14.0			
	9100	GORK	2	S/F	0443.7	0447.8	447.8	40.0			
	8800	LEAR	4	S/F	0447.0E	0448.0	3.0D	29.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0447.0E	0447.0	3.0D	69.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0447.0	0448.2	5.0	21.7			
	2950	GORK	3	S	0447.6	0447.8	3.7	28.0			
	17000	NOBE	2	S/F	0447.6	0447.8	1.0	68.0			L,80,35GHz:0
	950	GORK	29	PBI	0447.7	0449.7	7.3	6.0			
	950	GORK	3	S	0447.7	0447.9	2.0	56.0			
	650	GORK	3	S	0447.8	0448.2	1.9	10.0			
	650	GORK	29	PBI	0447.8	0449.7	7.3	4.0			
	9300	KISV	2	S/F	0524.5	0525.5	1.8	6.0			
	9300	KISV	1	S	0533.3	0533.8	1.2	7.0			
	5900	KISV	1	S	0533.6	0533.8	0.8	6.0			
	950	GORK	8	S	0533.7	0533.8	0.3	18.0			
	650	GORK	8	S	0533.7	0533.8	0.3	15.0			
	5900	KISV	2	S/F	0550.0	0554.3	5.0	14.0			
	9300	KISV	1	S	0602.5	0602.8	2.0	7.0			
	2840	PEKG	1	S	0709.0	0710.7	4.0	7.3			
	2950	GORK	1	S	0709.8	0710.5	1.7	5.8			
	2850	CRIM	1	S	0709.9	0710.5	1.3	8.0	2.0		

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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	3000	POTS	2	S/F	0709.9	0710.5	1.4	7.0			
	3013	IZMI	1	S	0710.0	0710.5	1.5	2.0	1.0		
	2840	PEKG	3	S	0737.0	0742.8	11.0	28.6			
	1470	POTS	1	S	0740.5E	0742.2	3.0D	3.0			
	2950	GORK	4	S/F	0742.0	0742.7	1.3	21.0			
	2850	CRIM	40	F	0742.0	0742.8	1.1	40.0			
	3000	POTS	4	S/F	0742.2	0742.8	1.4	22.0			
	3013	IZMI	7	C	0742.5	0743.0	1.0	20.0	10.0		
	9300	KISV	1	S	0816.7	0817.8	3.0	7.0			
	9300	KISV	1	S	0833.7	0833.9	1.0	5.0			
	650	GORK	23	GRF	0849.0	1137.5D	250.0D	7.5			
	9300	KISV	2	S/F	0929.5	0930.0	3.0	7.0			
	9500	POTS	21	GRF	1201.0	1215.5	54.0	11.0			
	9100	GORK	22	GRF	1206.0	1213.6	21.0	15.0			
	9300	KISV	23	GRF	1209.0	1213.9	18.0	16.0			
	410	SGMR	8	S	1213.0E	1213.0	1.0D	120.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1213.0E	1214.0	1.0D	300.0			QL=2 ST=2 TYP=3
	950	GORK	4	S/F	1213.5	1213.8	2.8	20.0			
	810	KRAK	8	S	1213.6	1213.6	0.2	20.0			
	9400	HUAN	1	S	1221.7	1222.6	4.8	5.4	1.8		
	950	GORK	4	S/F	1223.0	1223.2	1.3	14.0			
	650	GORK	8	S	1223.1	1223.2	0.3	50.0			
	245	SGMR	8	S	1235.0E	1237.0	2.0D	180.0			QL=2 ST=2 TYP=3
	5900	KISV	4	S/F	1236.0	1237.7	24.0	98.0			
	9100	GORK	3	S	1236.7	1237.7	5.3	130.0			
	9500	POTS	4	S/F	1236.7	1237.8	8.8	105.0			
	9300	KISV	4	S/F	1236.7	1237.9	20.0	146.0D			
	9400	HUAN	4	S/F	1236.8	1237.8	4.7	122.6	49.8		
	6700	CUBA	45	C	1236.8	1237.8	10.2	106.0	65.0		30R
	15000	CUBA	1	S	1236.8	1237.9	5.2	89.0	44.0		40L
	15400	SGMR	8	S	1237.0E	1237.0	1.0D	51.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1237.0E	1237.0	1.0D	81.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1237.0E	1238.0	5.0D	2000.0			QL=2 ST=2 TYP=6
	4995	SVTO	8	S	1237.0E	1237.0	1.0D	52.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1237.0E	1237.0	2.0D	63.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1237.0E	1237.0	4.0D	110.0			QL=4 ST=2 TYP=3
	15000	KISV	4	S/F	1237.3	1237.9	5.0	63.0			
	410	SGMR	8	S	1238.0E	1238.0	1.0D	100.0			QL=2 ST=2 TYP=3
	9400	HUAN	29	PBI	1241.5	1241.5	61.0	12.6	4.9		
	9100	GORK	29	PBI	1242.0	1242.0	9.0	15.0			
	6700	CUBA	29	PBI	1247.0		18.4	12.0	6.0		33R
	410	SGMR	8	S	1255.0E	1256.0	2.0D	320.0			QL=2 ST=2 TYP=3
	9400	HUAN	20	GRF	1554.1	1611.5	43.9	7.2	3.1		
	2800	OTTA	20	GRF	1557.0	1621.5	24.5	8.5	4.0		
	6700	CUBA	4	S/F	1751.0	1753.6	7.3	65.0	28.0		25R
	9400	HUAN	45	C	1751.1	1753.3	23.1	133.5	56.2		
	15000	CUBA	45	C	1751.5	1753.6	6.0	94.0	19.0		38L
	8800	PALE	4	S/F	1752.0E	1753.0	5.0D	170.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	1752.4	1753.8	9.9	52.7	16.0		
	1415	PALE	8	S	1753.0E	1753.0	1.0D	50.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1753.0E	1753.0	2.0D	100.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1753.0E	1755.0	2.0D	1400.0			QL=4 ST=2 TYP=6
	1415	SGMR	8	S	1753.0E	1753.0	1.0D	59.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1753.0E	1753.0	3.0D	100.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1753.0E	1755.0	2.0D	1100.0			QL=2 ST=2 TYP=6
	6700	CUBA	29	PBI	1758.3		22.0	14.0	7.0		00R
	9400	HUAN	4	S/F	1830.7	1833.0	6.0	63.1	28.4		
	9400	HUAN	4	S/F	1830.7	1833.9		55.9			
	15000	CUBA	2	S/F	1831.2	1833.0	3.6	78.0	39.0		23L
	15400	PALE	8	S	1832.0E	1833.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1832.0E	1832.0	2.0D	1300.0			QL=2 ST=2 TYP=6
	1415	SGMR	8	S	1832.0E	1834.0	2.0D	180.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1832.0E	1832.0	1.0D	73.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1832.0E	1833.0	1.0D	86.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1832.0E	1832.0	2.0D	1200.0			QL=4 ST=2 TYP=6
	6700	CUBA	2	S/F	1832.5	1833.1	3.1	26.0	13.0		20R
	2800	OTTA	3	S	1832.5	1833.2	4.3	34.7	10.0		
	410	PALE	8	S	1833.0E	1833.0	U	350.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1833.0E	1834.0	1.0D	160.0			QL=2 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
27	8800	PALE	8	S	1833.0E	1833.0	U	56.0			QL=2 ST=2 TYP=3
	610	PALE	8	S	1833.0E	1834.0	1.0D	150.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1834.0E	1834.0	U	140.0			QL=4 ST=2 TYP=3
	9400	HUAN	1	S	1841.6	1843.3	4.4	12.6	4.9		
	410	PALE	8	S	1842.0E	1843.0	1.0D	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1842.8	1843.1	2.2	14.0	7.0		62R
	2800	OTTA	3	S	1842.8	1843.1	8.0	23.5	7.0		
	9400	HUAN	2	S/F	1853.2	1855.4	4.8	18.0	8.2		
	410	SGMR	8	S	1855.0E	1855.0	U	170.0			QL=2 ST=2 TYP=3
	2800	OTTA	3	S	1855.5	1855.8	2.6	18.1	5.0		
	9400	HUAN	2	S/F	1909.8	1911.7	6.3	19.2	8.6		
	245	PALE	8	S	1911.0E	1911.0	1.0D	410.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1911.0E	1911.0	1.0D	430.0			QL=4 ST=2 TYP=3
	9400	HUAN	21	GRF	1956.8	2047.0	76.9	18.9	7.4		
	9400	HUAN	4	S/F	2032.0	2033.0	7.1	25.2	12.4		
	6700	CUBA	21	GRF	2032.0	2034.0	18.0	11.0	5.0		25R
	2800	OTTA	22	GRF	2033.0	2300.0	340.0	19.3	10.0		
	6700	CUBA	23	GRF	2120.0	2127.0	21.0	17.0	8.0		26L
	9400	HUAN	3	S	2132.8	2134.1	4.9	23.4	11.2		
	15000	CUBA	1	S	2133.6	2134.9	4.2	30.0	15.0		18L
	9400	HUAN	45	C	2159.4	2203.6	19.4	250.8	134.6		
	6700	CUBA	46	C	2200.0U	2206.0	15.0D	223.0			50R
	15000	CUBA	20	GRF	2200.0U	2203.0	11.0D	157.0	79.0		23L
	2695	SGMR	4	S/F	2201.0E	2203.0	11.0D	120.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	2201.0E	2203.0	11.0D	240.0			QL=2 ST=2 TYP=3
	15400	PALE	4	S/F	2202.0E	2203.0	6.0D	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2202.0E	2203.0	6.0D	75.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2202.0E	2203.0	10.0D	56.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	2202.0E	2203.0	10.0D	190.0			QL=2 ST=2 TYP=3
	17000	NOBE	7	C	2202.3	2203.7	7.5	67.0			L,80,35GHz:0
	15000	CUBA	29	PBI	2211.0		25.0	27.0	13.0		23L
	6700	CUBA	29	PBI	2215.0		41.0D	45.0			15R SUNSET
	15000	CUBA	1	S	2247.3	2248.3	2.6	32.0	16.0		4L
	4995	LEAR	4	S/F	2313.0E	2315.0	3.0D	21.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	2314.0E	2315.0	4.0D	2200.0			QL=2 ST=2 TYP=6
	2695	LEAR	8	S	2314.0E	2315.0	2.0D	22.0			QL=2 ST=2 TYP=3
	410	LEAR	4	S/F	2314.0E	2315.0	46.0D	220.0			QL=2 ST=1 TYP=3
	410	LEAR	8	S	2315.0E	2315.0	U	150.0			QL=2 ST=2 TYP=3
	610	LEAR	4	S/F	2315.0E	2321.0	6.0D	15.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2315.0E	2315.0U	1.0D	100.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	2315.0E	2315.0U	1.0D	1200.0			QL=2 ST=2 TYP=6
28	200	GORK	44	NS	0424.0E		520.0D		5.0		
	100	GORK	44	NS	0424.0E		520.0D		15.0		
	245	SVTO	44	NS	0501.0E	0522.0	223.0D	150.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	0506.0E	0620.0	75.0D	130.0			QL=4 ST=2 TYP=1
	204	IZMI	43	NS	0600.0		360.0	55.0			
	33	UPIC	44	NS	0600.0E		401.0D				
	600	HUMN	44	NS	0600.0E		420.0D	6.0			
	127	TORN	44	NS	0620.0E		520.0D		50.0		V=1
	260	ONDR	44	NS	0830.0E	1048.2	390.0D	50.0			
	280	CUBA	44	NS	1316.0E		532.0D		50.0		
	235	CUBA	44	NS	1316.0E		532.0D		39.0		
	2840	PEKG	5	S	0049.0	0049.9	3.0	12.4			
	245	LEAR	8	S	0152.0E	0153.0	2.0D	300.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0200.0E	0202.0	4.0D	510.0			QL=2 ST=2 TYP=6
	15400	LEAR	8	S	0302.0E	0302.0	U	73.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0319.0	0329.4	16.0	29.0			
	8800	PALE	4	S/F	0327.0E	0329.0	4.0D	140.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0328.0E	0328.0	1.0D	310.0			QL=2 ST=2 TYP=3
	8800	LEAR	8	S	0328.0E	0329.0	2.0D	83.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0328.0E	0329.0	1.0D	38.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0328.0E	0328.0	2.0D	170.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	0328.0E	0329.0	2.0D	51.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0329.0E	0329.0	U	56.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0329.0E	0329.0	U	30.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0329.0E	0329.0	U	34.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0329.0E	0329.0	U	54.0			QL=4 ST=2 TYP=3
	650	GORK	23	GRF	0424.0E	0506.0	492.0D	23.0			

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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
28	9100	GORK	22	GRF	0439.0E	0507.8	126.0U	20.0			
	2950	GORK	2	S/F	0505.0	0507.7	7.0	9.0			
	5900	KISV	22	GRF	0506.0	0506.0	52.0	19.0			
	2840	PEKG	1	S	0506.0	0507.5	5.0	3.0			
	9300	KISV	2	S/F	0506.6	0507.4	7.0	9.0			
	650	GORK	2	S/F	0542.7	0544.1	3.9	14.0			
	950	GORK	1	S	0542.7	0543.7	3.9	2.0			
	9300	KISV	2	S/F	0603.9	0605.1	4.9	14.0			
	650	GORK	2	S/F	0629.0	0630.1	4.0	16.0			
	950	GORK	2	S/F	0629.0	0630.2	4.0	5.0			
	9100	GORK	20	GRF	0728.0	0742.0	53.5	5.0			
	100	GORK	4	S/F	0842.6	0843.4	1.1	760.0			
	200	GORK	4	S/F	0842.8	0843.0	1.1	120.0			
	204	IZMI	7	C	0843.0	0843.3	1.0	200.0			
	2950	GORK	1	S	0856.5	0858.6	4.8	2.5			
	9300	KISV	2	S/F	0914.7	0915.3	2.4	7.0			
	950	GORK	40	F	0916.8	0918.2	6.1	3.0			
	950	GORK	40	F	0916.8	0920.6		33.0			
	430	KRAK	8	S	0939.0	0939.6	1.0	58.0			
	204	IZMI	41	F	1015.5	1015.7	0.5	210.0			
	9100	GORK	22	GRF	1022.8E	1305.2U		10.0			
	5900	KISV	22	GRF	1038.7	1048.3	21.0	13.0			
	9300	KISV	22	GRF	1038.9	1048.2	13.4	7.0			
	245	SVTO	8	S	1144.0E	1144.0	U	100.0			QL=2 ST=2 TYP=3
	650	GORK	2	S/F	1232.1	1234.0	4.5	7.5			
	3000	POTS	4	S/F	1232.8	1235.9	5.5	39.0			
	2950	GORK	21	GRF	1233.3	1234.0	7.6	5.0			
	950	GORK	2	S/F	1233.4	1234.0	6.0	9.5			
	5900	KISV	21	GRF	1233.7	1235.9	21.2	10.0			
	2850	CRIM	40	F	1235.1	1236.0	1.0	31.0			
	2950	GORK	4	S/F	1235.6	1236.1	0.7	42.0			
	245	SVTO	8	S	1239.0E	1239.0	U	85.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1350.0E	1350.0	U	84.0			QL=2 ST=2 TYP=3
	15000	CUBA	1	S	1357.3	1357.7	8.0	36.0	18.0		39L
	9400	HUAN	1	S	1557.4	1600.5	6.3	13.4	6.2		
	9400	HUAN	20	GRF	1630.0	1658.3	40.3	13.4	5.8		
	2800	OTTA	22	GRF	2012.0	2112.0	115.0	9.6	4.0		
	9400	HUAN	1	S	2034.1	2035.5	4.9	6.7	3.2		
	245	SGMR	8	S	2057.0E	2057.0	U	71.0			QL=2 ST=2 TYP=3
	9400	HUAN	22	GRF	2057.1	2143.5	60.9	11.7	5.6		
	245	SGMR	8	S	2124.0E	2124.0	U	78.0			QL=4 ST=2 TYP=3
	2800	OTTA	4	S/F	2132.3	2141.4	15.9	49.3	15.0		
	2695	PALE	8	S	2137.0E	2137.0	1.0D	31.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2137.0E	2138.0	1.0D	37.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2137.0E	2137.0	1.0D	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2137.0E	2138.0	1.0D	31.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2137.0E	2138.0	1.0D	33.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2137.0E	2137.0	1.0D	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2137.0E	2137.0	1.0D	60.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2137.3	2137.6	6.5	580.0			SR
	1415	SGMR	8	S	2138.0E	2138.0	U	36.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2141.0E	2141.0	2.0D	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2141.0E	2141.0	2.0D	26.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2141.0E	2141.0	U	28.0			QL=4 ST=2 TYP=3
	2800	OTTA	3	S	2200.0	2203.4	35.0	115.9	35.0		
	9400	HUAN	1	S	2205.4	2209.5	5.6	12.5	5.8		
	9400	HUAN	1	S	2219.2	2220.7	4.3	18.4	7.2		
	15000	CUBA	1	S	2236.2	2236.8	2.0	34.0	17.0		47L
	200	HIRA	46	C	2326.6	2327.3	1.3	500.0	200.0		0
	17000	NOBE	1	S	2356.5	2356.7	1.5	25.0			L,80,35GHz:0
29	100	GORK	44	NS	0420.0E		400.0D		5.0		
	200	GORK	44	NS	0420.0E		520.0D		5.0		
	127	TORN	43	NS	0830.0		352.0		6.0		V=1
	280	CUBA	44	NS	1310.0E		530.0D		23.0		
	235	CUBA	44	NS	1310.0E		530.0D		20.0		
	2840	PEKG	1	S	0310.0	0312.0	5.0	8.0			
	410	LEAR	8	S	0411.0E	0412.0	1.0D	91.0			QL=4 ST=2 TYP=3
	200	GORK	46	C	0421.9	0423.0	3.5	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
29	200	GORK	46	C	0421.9	0424.8		440.0			
	100	GORK	46	C	0422.5	0422.9	2.3	290.0			
	100	GORK	46	C	0422.5	0423.9		230.0			
	245	LEAR	49	GB	0424.0E	0424.0	1.0D	910.0			QL=2 ST=2 TYP=6
	410	LEAR	8	S	0424.0E	0424.0	1.0D	53.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0424.0E	0424.0	1.0D	930.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	0424.0E	0424.0	1.0D	64.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0430.0	1045.7	510.0	35.0			
	610	LEAR	8	S	0515.0E	0515.0	U	160.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0515.0E	0515.0	U	48.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0518.0E	0519.0	1.0D	92.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0518.0E	0519.0	2.0D	31.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0518.0E	0519.0	1.0D	62.0			QL=4 ST=2 TYP=3
	9100	GORK	46	C	0532.1	0543.6	26.6	48.0			
	9100	GORK	46	C	0532.1	0553.9		17.0			
	9300	KISV	23	GRF	0532.2	0546.4	28.4	20.0			
	5900	KISV	23	GRF	0532.2	0547.4	31.2	19.0			
	2840	PEKG	45	C	0540.0	0543.0	5.0	15.7			
	2950	GORK	22	GRF	0540.5	0553.8	18.0	4.9			
	5900	KISV	4	S/F	0541.0	0543.6	4.4	23.0			
	9300	KISV	4	S/F	0541.5	0543.6	3.9	41.0			
	15000	KISV	2	S/F	0542.3	0543.7	5.6	10.0			
	650	GORK	1	S	0543.5	0543.8	0.7	1.5			
	950	GORK	1	S	0543.5	0543.8	0.7	3.5			
	5900	KISV	4	S/F	0548.5	0553.9	6.2	16.0			
	9300	KISV	2	S/F	0552.6	0553.7	2.0	12.0			
	1470	POTS	45	C	0637.0E	0642.0	58.0D	2520.0			
	3000	POTS	45	C	0638.0	0647.0	29.0	3630.0			
	9500	POTS	45	C	0638.0	0645.0	52.0	3100.0			
	5900	KISV	47	GB	0638.5	0645.5	30.8	4045.0			
	9300	KISV	47	GB	0638.6U	0645.1	34.7D	3931.0			
	204	IZMI	45	C	0640.0	0650.0		15000.0			
	15000	KISV	47	GB	0640.5	0645.1	27.6	6189.0			
	9100	GORK	47	GB	0640.7	0645.1	31.1	4400.0			
	650	GORK	29	PBI	0640.9	0700.0	30.8	25.0			
	650	GORK	47	GB	0640.9	0643.9	19.1	2930.0			
	4995	LEAR	49	GB	0641.0E	0645.0	26.0D	2800.0			QL=4 ST=2 TYP=7
	8800	LEAR	49	GB	0641.0E	0645.0	26.0D	3600.0			QL=4 ST=2 TYP=7
	8800	SVTO	49	GB	0641.0E	0645.0	24.0D	3600.0			QL=4 ST=2 TYP=7
	2840	PEKG	47	GB	0641.0	0645.9	18.0	899.0			
	2950	GORK	29	PBI	0641.3	0657.0	46.5	40.0			
	2950	GORK	47	GB	0641.3	0645.8	15.7	2500.0			
	3013	IZMI	45	C	0641.5	0645.7	29.0	2010.0			
	2850	CRIM	47	GB	0642.0	0646.0	18.0	5529.0	1700.0		
	2850	CRIM	29	PBI	0642.0	0700.0	20.0	32.0	10.0		
	15400	LEAR	49	GB	0642.0E	0645.0	25.0D	6000.0			QL=2 ST=2 TYP=7
	15400	SVTO	49	GB	0642.0E	0645.0	23.0D	6600.0			QL=4 ST=2 TYP=7
	950	GORK	29	PBI	0642.2	0700.0	18.8	30.0			
	950	GORK	47	GB	0642.2	0646.6	17.8	825.0			
	80000	NOBE	47	GB	0642.8	0646.1	14.6	2170.0			
	35000	NOBE	47	GB	0642.8	0645.2	14.6	10500.0			L
	17000	NOBE	47	GB	0642.8	0645.2	14.6	8550.0			
	35000	NOBE	29	PBI	0642.8	0657.4	16.0	60.0			O
	17000	NOBE	29	PBI	0642.8	0657.4	16.0	51.0			
	610	LEAR	49	GB	0643.0E	0643.0	19.0D	1700.0			QL=4 ST=2 TYP=7
	1415	LEAR	49	GB	0643.0E	0646.0	24.0D	1900.0			QL=4 ST=2 TYP=7
	2695	LEAR	49	GB	0643.0E	0645.0	26.0D	3400.0			QL=2 ST=2 TYP=7
	2695	SVTO	49	GB	0643.0E	0645.0	21.0D	3000.0			QL=4 ST=2 TYP=7
	1415	SVTO	49	GB	0643.0E	0646.0	21.0D	1800.0			QL=4 ST=2 TYP=7
	610	SVTO	49	GB	0643.0E	0645.0	20.0D	1100.0			QL=4 ST=2 TYP=7
	600	HUMN	45	C	0643.3	0645.2	31.8	331.0	47.0		
	410	LEAR	49	GB	0644.0E	0645.0	16.0D	5700.0			QL=4 ST=2 TYP=7
	410	SVTO	49	GB	0644.0E	0645.0	13.0D	2600.0			QL=4 ST=2 TYP=7
	33	UPIC	32	ABS	0644.0	0650.0	28.0				
	200	GORK	46	C	0645.0	0646.3	7.4	1900.0			
	245	LEAR	49	GB	0645.0E	0649.0	6.0D	2700.0			QL=2 ST=2 TYP=7
	245	SVTO	49	GB	0645.0E	0649.0	7.0D	2900.0			QL=4 ST=2 TYP=7
	200	GORK	46	C	0645.0	0650.1		27000.0			
	200	GORK	46	C	0645.0	0648.6	7.4	1300.0			

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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
29	234	POTS	48	C	0645.0	0649.9	12.5	7500.0			
	200	HIRA	48	C	0645.1	0650.0	7.3	12000.0	1000.0		0
	100	GORK	47	GB	0648.4	0654.0		27000.0			
	100	GORK	47	GB	0648.4	0651.9	10.4	54000.0			
	100	HIRA	48	C	0648.7	0652.1	8.6	16000.0D			
	127	TORN	47	GB	0648.8	0651.0U	9.0	3300.0D	200.0		
	113	POTS	48	C	0648.9	0650.0U	8.7	2000.0D			
	80000	NOBE	29	PBI	0657.4E	0657.4	10.0D	40.0			
	500	HIRA	48	C	0658.8	0659.1	32.0	5000.0	100.0		WR
	2840	PEKG	29	PBI	0659.0	0659.0	44.0	11.2			
	15000	KISV	29	PBI	0708.1E	0708.1	15.7D	17.0			
	5900	KISV	29	PBI	0709.3E	0709.3	21.7D	28.0			
	9300	KISV	29	PBI	0713.3E	0713.3	19.9D	21.0			
	245	SVTO	8	S	0805.0E	0806.0	2.0D	190.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0846.0E	0846.0	U	60.0			QL=2 ST=2 TYP=3
	260	ONDR	40	F	0850.0	1359.2	370.0	275.0			
	2950	GORK	21	GRF	0951.0	1045.8	189.0	14.7			
	245	LEAR	8	S	0957.0E	0957.0	U	390.0			QL=2 ST=2 TYP=3
	234	POTS	8	S	0957.1	0957.2	0.9	500.0			
	5900	KISV	4	S/F	1036.1	1040.7	5.7	116.0			
	5900	KISV	29	PBI	1036.1	1041.8	20.1	34.0			
	9300	KISV	4	S/F	1037.7	1040.7	4.1	84.0			
	9300	KISV	29	PBI	1037.7	1041.8	20.8	15.0			
	9100	GORK	2	S/F	1037.9	1040.8	7.1	75.0			
	4995	SVTO	4	S/F	1038.0E	1040.0	3.0D	97.0			QL=4 ST=2 TYP=3
	3000	POTS	4	S/F	1038.0U	1040.0U	4.5U	48.0			
	810	KRAK	1	S	1038.0	1039.5	2.5	4.0	2.0		
	2850	CRIM	3	S	1038.0	1040.8	10.0	54.0	17.0		
	2950	GORK	4	S/F	1038.2	1040.6	5.1	50.0			
	15000	KISV	29	PBI	1038.3	1041.6	22.0	12.0			
	950	GORK	20	GRF	1038.3	1048.8		13.0			
	15000	KISV	2	S/F	1038.3	1040.8	3.2	28.0			
	3013	IZMI	7	C	1038.5	1040.7	12.0	64.0			
	650	GORK	2	S/F	1038.7	1038.8	2.8	6.5			
	8800	SVTO	8	S	1039.0E	1040.0	2.0D	65.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1039.0E	1040.0	2.0D	53.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1039.0E	1040.0	3.0D	50.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1039.0E	1040.0	2.0D	31.0			QL=4 ST=2 TYP=3
	33	UPIC	32	ABS	1041.5	1048.0	31.0				
	3000	POTS	4	S/F	1132.8	1133.5	2.2	11.0			
	430	KRAK	8	S	1222.8	1223.1	0.5	97.0			
	1470	POTS	8	S	1223.5	1223.7	0.8	6.0			
	245	SGMR	8	S	1245.0E	1246.0	1.0D	55.0			QL=4 ST=3 TYP=3
	3000	POTS	4	S/F	1247.0	1247.8	2.0	10.0			
	536	ONDR	8	S	1305.5	1305.5	1.0	87.0			
	1470	POTS	42	SER	1305.8	1306.4	5.5	10.0			
	9500	POTS	1	S	1310.0	1310.5	1.0	13.0			
	808	ONDR	8	S	1310.5	1310.7	0.7	41.0			
	9400	HUAN	4	S/F	1356.3	1359.5	5.3	33.1	14.8		
	245	SGMR	49	GB	1358.0E	1358.0	2.0D	1100.0			QL=4 ST=3 TYP=6
	245	SVTO	49	GB	1358.0E	1358.0	2.0D	910.0			QL=4 ST=2 TYP=6
	1470	POTS	42	SER	1358.0	1358.7	3.0	6.0			
	234	POTS	4	S/F	1358.2	1358.6	3.8	400.0			
	9500	POTS	4	S/F	1358.4	1358.6	2.6	28.0			
	6700	CUBA	1	S	1358.4	1358.8	0.9	10.0	5.0		17R
	245	SGMR	8	S	1523.0E	1523.0	1.0D	81.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1743.0E	1743.0	1.0D	200.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1743.0E	1743.0	1.0D	94.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2030.0E	2030.0	1.0D	370.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2034.0E	2035.0	1.0D	66.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2124.0E	2124.0	U	1400.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2124.0E	2124.0	U	1300.0			QL=4 ST=3 TYP=6
	245	PALE	49	GB	2128.0E	2128.0	U	1100.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2128.0E	2128.0	U	1200.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	2214.0E	2215.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2214.0E	2215.0	1.0D	140.0			QL=4 ST=2 TYP=3
	2695	PENT	4	S/F	2231.8	2235.8	8.1	27.5	6.0		
	17000	NOBE	2	S/F	2235.5	2236.6	3.0	31.0			80,35GHz:0
	6700	CUBA	2	S/F	2236.2	2237.5	2.8	12.0	6.0		00R

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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
29	500	HIRA	42	SER	2242.0	2248.8	58.0	4000.0			SR
	245	LEAR	8	S	2251.0E	2252.0	1.0D	160.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	2251.0E	2252.0	1.0D	150.0			QL=4 ST=2 TYP=3
	17000	NOBE	2	S/F	2251.7	2255.4	4.5	18.0			80,35GHz:0
	245	LEAR	8	S	2311.0E	2312.0	2.0D	94.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	2315.0E	2315.0	U	100.0			QL=2 ST=2 TYP=3
	610	LEAR	8	S	2315.0E	2315.0	1.0D	120.0			QL=4 ST=2 TYP=3
30	100	GORK	44	NS	0406.0E		450.0D		5.0		
	200	GORK	44	NS	0407.0E		440.0D		5.0		
	410	LEAR	44	NS	0415.0E	0458.0	60.0D	220.0			QL=4 ST=2 TYP=1
	410	SVTO	44	NS	0456.0E	0501.0	76.0D	150.0			QL=4 ST=2 TYP=1
	260	ONDR	44	NS	0830.0E	0904.0	390.0D	624.0U			
	127	TORN	43	NS	0922.0		270.0		6.0		V=0
	235	CUBA	44	NS	1310.0E		485.0D		16.0		
	280	CUBA	44	NS	1310.0E		585.0D		27.0		
	245	LEAR	8	S	0045.0E	0045.0	U	350.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0045.0E	0045.0	U	350.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0104.0E	0106.0	2.0D	96.0			QL=2 ST=2 TYP=3
	245	PALE	49	GB	0158.0E	0158.0	1.0D	500.0			QL=4 ST=2 TYP=6
	610	LEAR	4	S/F	0234.0E	0235.0	3.0D	87.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0302.0E	0303.0	1.0D	1800.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	0302.0E	0303.0	1.0D	1200.0			QL=4 ST=2 TYP=6
	4995	LEAR	4	S/F	0313.0E	0320.0	8.0D	83.0			QL=4 ST=3 TYP=3
	245	LEAR	49	GB	0313.0E	0315.0	8.0D	55000.0			QL=2 ST=3 TYP=6
	410	LEAR	4	S/F	0315.0E	0315.0	6.0D	62.0			QL=4 ST=3 TYP=3
	1415	LEAR	4	S/F	0315.0E	0321.0	8.0D	24.0			QL=4 ST=3 TYP=3
	8800	LEAR	4	S/F	0315.0E	0320.0	6.0D	56.0			QL=4 ST=3 TYP=3
	245	LEAR	49	GB	0315.0E	0315.0	4.0D	39000.0			QL=2 ST=2 TYP=6
	2695	LEAR	4	S/F	0315.0E	0321.0	6.0D	34.0			QL=2 ST=3 TYP=3
	410	PALE	8	S	0315.0E	0315.0	U	75.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0315.0E	0315.0	4.0D	61000.0			QL=4 ST=3 TYP=6
	8800	LEAR	8	S	0320.0E	0320.0	1.0D	53.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0320.0E	0320.0	2.0D	84.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0320.0E	0321.0	1.0D	30.0			QL=2 ST=2 TYP=3
	4995	PALE	8	S	0320.0E	0320.0	2.0D	97.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0320.0E	0321.0	1.0D	25.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0321.0E	0321.0	1.0D	21.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0321.0E	0321.0	1.0D	28.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0341.0E	0341.0	1.0D	10000.0			QL=2 ST=3 TYP=6
	245	PALE	49	GB	0341.0E	0341.0	1.0D	9700.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0348.0E	0349.0	1.0D	93.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0348.0E	0349.0	1.0D	87.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0413.0E	0416.0	4.0D	690.0			QL=2 ST=2 TYP=6
	200	GORK	41	F	0414.8	0415.1	27.9	75.0			
	200	GORK	41	F	0414.8	0442.2	27.9	380.0			
	245	PALE	49	GB	0416.0E	0416.0	U	760.0			QL=4 ST=2 TYP=6
	100	GORK	41	F	0416.3	0442.2		360.0			
	100	GORK	41	F	0416.3	0416.5	26.7	240.0			
	410	PALE	4	S/F	0417.0E	0430.0	15.0D	140.0			QL=4 ST=2 TYP=5
	500	HIRA	41	F	0421.0	0459.0	96.0	100.0			MR
	9100	GORK	23	GRF	0421.8	0626.6	430.4	22.0	5.0		
	410	LEAR	4	S/F	0430.0E	0430.0	3.0D	190.0			QL=4 ST=2 TYP=3
	410	LEAR	20	GRF	0439.0E	0439.0	7.0D	120.0			QL=2 ST=2 TYP=2
	610	LEAR	4	S/F	0441.0E	0444.0	5.0D	87.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0441.0E	0442.0	1.0D	79.0			QL=2 ST=2 TYP=3
	410	LEAR	4	S/F	0451.0E	0452.0	3.0D	180.0			QL=2 ST=2 TYP=3
	2950	GORK	21	GRF	0513.4	0734.2	305.0	13.0			
	245	LEAR	8	S	0541.0E	0541.0	U	260.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0611.0E	0612.0	1.0D	340.0			QL=2 ST=2 TYP=3
	9300	KISV	2	S/F	0611.4	0611.7	2.1	6.0			
	5900	KISV	2	S/F	0611.4	0611.8	1.9	4.0			
	234	POTS	4	S/F	0611.5	0612.1	1.0	170.0			
	200	GORK	4	S/F	0611.6	0612.3	1.1	20.0			
	410	LEAR	8	S	0612.0E	0612.0	U	35.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0612.0E	0612.0	U	350.0			QL=4 ST=2 TYP=3
	650	GORK	20	GRF	0634.9	0638.2	8.4	2.0			
	40	POTS	41	F	0636.7	0637.1	2.2	U			
	33	UPIC	4	S/F	0637.7	0638.0	0.9				

SOLAR RADIO EMISSION
Outstanding Occurrences

MARCH 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	234	POTS	4	S/F	0637.7	0638.1	1.1	400.0			
	113	POTS	4	S/F	0637.7	0637.8	1.0	200.0			
	950	GORK	20	GRF	0637.8	0638.2	5.5	2.0			
	410	LEAR	8	S	0638.0E	0638.0	U	40.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0638.0E	0638.0	U	1500.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0638.0E	0638.0	U	1100.0			QL=4 ST=2 TYP=6
	234	POTS	42	SER	0730.7	0731.1	4.3	900.0			
	100	GORK	3	S	0730.9	0731.3	0.9	120.0			
	245	LEAR	49	GB	0731.0E	0731.0	U	1400.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0731.0E	0731.0	U	1100.0			QL=4 ST=3 TYP=6
	200	GORK	3	S	0731.0	0731.2	0.4	610.0			
	245	LEAR	8	S	0734.0E	0734.0	U	490.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0734.0E	0734.0	U	490.0			QL=4 ST=2 TYP=3
	5900	KISV	2	S/F	0813.6	0814.7	3.4	7.0			
	9300	KISV	2	S/F	0814.1	0814.7	1.6	10.0			
	9300	KISV	46	C	0901.5	0907.0		24.0			
	9300	KISV	46	C	0901.5	0904.0		36.0			
	9300	KISV	46	C	0901.5	0908.6	9.8	40.0			
	245	LEAR	49	GB	0902.0E	0904.0	2.0D	9500.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0902.0E	0904.0	2.0D	8700.0			QL=4 ST=2 TYP=6
	200	GORK	41	F	0902.4	0908.1	8.4	760.0			
	200	GORK	41	F	0902.4	0910.5		130.0			
	204	IZMI	42	SER	0902.5	0904.0	11.0	2500.0			
	15000	KISV	42	SER	0902.5	0904.5	6.6	17.0			
	127	TORN	42	SER	0902.5	0907.7	9.0	670.0			
	8800	LEAR	8	S	0903.0E	0904.0	1.0D	25.0			QL=4 ST=2 TYP=3
	9500	POTS	40	F	0903.4	0904.0	6.8	30.0			
	9100	GORK	46	C	0903.4	0904.1	5.9	35.0			
	5900	KISV	45	C	0903.4	0904.1		14.0			
	9100	GORK	46	C	0903.4	0908.5		36.0			
	5900	KISV	45	C	0903.4	0908.6	8.7	34.0			
	3000	POTS	40	F	0903.4	0908.6	10.2	27.0			
	808	ONDR	45	C	0903.5	0908.6	10.0	25.0			
	1470	POTS	40	F	0903.5	0908.6	11.9	49.0			
	3013	IZMI	7	C	0903.5	0908.7	11.0	20.0			
	2950	GORK	1	S	0903.6	0910.1		7.0			
	100	GORK	41	F	0903.7	0904.1	7.2	470.0			
	100	GORK	41	F	0903.7	0908.2	7.2	590.0			
	100	GORK	41	F	0903.7	0910.5		880.0			
	950	GORK	45	C	0903.9	0904.2	14.1	18.0			
	650	GORK	45	C	0903.9	0904.2	14.1	5.0			
	950	GORK	45	C	0903.9	0908.7		27.0			
	650	GORK	45	C	0903.9	0908.9		22.0			
	600	HUMN	2	S/F	0904.0	0909.0	8.0	9.0	4.0		
	1415	LEAR	4	S/F	0906.0E	0908.0	5.0D	44.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0906.0E	0908.0	3.0D	32.0			QL=2 ST=2 TYP=3
	245	LEAR	49	GB	0906.0E	0908.0	4.0D	1700.0			QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0906.0E	0908.0	2.0D	1500.0			QL=4 ST=2 TYP=6
	234	POTS	41	F	0906.4	0908.0	4.4	2200.0			
	2950	GORK	46	C	0906.6	0907.0	4.8	14.0			
	2950	GORK	46	C	0906.6	0908.6		23.0			
	2950	GORK	46	C	0906.6	0910.7		80.0			
	113	POTS	41	F	0906.7	0910.5	4.2	350.0			
	40	POTS	4	S/F	0907.0	0908.1	3.0	U			
	430	KRAK	46	C	0907.5E	0910.1	5.0D	190.0	7.0		
	810	KRAK	7	C	0907.5E	0908.8	6.0D	18.0	6.0		
	410	LEAR	8	S	0908.0E	0909.0	1.0D	29.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0908.0E	0908.0	U	21.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0908.0E	0908.0	U	25.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0908.0E	0908.0	U	18.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0908.0E	0908.0	1.0D	43.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0908.0E	0908.0	1.0D	26.0			QL=4 ST=2 TYP=3
	2850	CRIM	42	SER	0913.6	0914.0	18.5	8.0U	7.0U		
	2850	CRIM	42	SER	0913.6	0918.2		28.0			
	2850	CRIM	42	SER	0913.6	0916.9		16.0			
	204	IZMI	41	F	0923.0	0923.3	2.0	120.0			
	3000	POTS	4	S/F	1055.0U	1055.6U	1.5U	13.0			
	245	SVTO	49	GB	1129.0E	1130.0	2.0D	830.0			QL=4 ST=2 TYP=6
	3000	POTS	2	S/F	1129.5	1130.4	2.5	5.0			

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

MARCH 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	1470	POTS	4	S/F	1129.6	1130.3	2.2	10.0			
	2950	GORK	1	S	1129.8	1130.2	2.2	3.8			
	650	GORK	1	S	1129.9	1130.0	0.9	4.5			
	950	GORK	1	S	1129.9	1130.0	0.9	4.0			
	245	SGMR	49	GB	1130.0E	1130.0	U	850.0			QL=4 ST=2 TYP=6
	234	POTS	4	S/F	1130.0	1130.1	0.6	1700.0			
	234	POTS	42	SER	1158.8	1204.7	6.8	2400.0			
	245	SGMR	8	S	1159.0E	1159.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1159.0E	1159.0	2.0D	150.0			QL=4 ST=2 TYP=3
	113	POTS	42	SER	1200.9	1202.2	5.6	2000.0			
	810	KRAK	7	C	1202.0	1202.0U	6.0D	45.0D	12.0		
	430	KRAK	45	C	1204.0			230.0D			
	245	SGMR	49	GB	1204.0E	1205.0	1.0D	1100.0			QL=4 ST=2 TYP=6
	610	SGMR	8	S	1204.0E	1204.0	2.0D	260.0			QL=4 ST=2 TYP=3
	410	SVTO	49	GB	1204.0E	1205.0	1.0D	660.0			QL=4 ST=2 TYP=6
	1415	SVTO	8	S	1204.0E	1205.0	2.0D	69.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1204.0E	1205.0	2.0D	240.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1204.0E	1205.0	1.0D	1100.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1204.0E	1205.0	716.0D	1000.0			QL=4 ST=1 TYP=6
	3000	POTS	4	S/F	1204.4	1205.3	4.6	37.0			
	1470	POTS	4	S/F	1204.5	1205.0	8.9	80.0			
	536	ONDR	8	S	1204.5	1204.5	3.0	147.0			
	9300	KISV	2	S/F	1204.6	1205.2	1.3	8.0			
	5900	KISV	2	S/F	1204.6	1205.2	2.3	17.0			
	9500	POTS	2	S/F	1204.6	1205.3	1.7	7.0			
	808	ONDR	4	S/F	1204.6	1204.6	5.5	75.0			
	600	HUMN	2	S/F	1204.7	1205.0	14.0	150.0	27.0		
	2695	SVTO	8	S	1205.0E	1205.0	U	42.0			QL=4 ST=2 TYP=3
	3000	POTS	4	S/F	1241.0E	1241.4	2.0D	12.0			
	9500	POTS	40	F	1246.2	1249.0	6.6	90.0			
	1470	POTS	8	S	1248.6	1248.8	0.7	11.0			
	6700	CUBA	2	S/F	1322.5	1322.8	1.5	8.0	4.0		OOR
	9400	HUAN	3	S	1732.7	1735.6	7.6	27.1	11.6		
	6700	CUBA	1	S	1735.5	1735.9	2.0	8.0	4.0		OOR
	245	PALE	49	GB	2025.0E	2025.0	1.0D	4600.0			QL=4 ST=3 TYP=6
	245	SGMR	49	GB	2025.0E	2025.0	1.0D	4300.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	2030.0E	2031.0	2.0D	52.0			QL=4 ST=2 TYP=3
	9400	HUAN	4	S/F	2030.1	2033.1	7.2	25.4	13.2		
	9400	HUAN	4	S/F	2030.1	2035.7		23.7			
	245	SGMR	49	GB	2049.0E	2050.0	3.0D	640.0			QL=4 ST=2 TYP=6
	9400	HUAN	21	GRF	2050.2	2136.0	59.3	16.9	7.2		
	9400	HUAN	4	S/F	2120.7	2122.3	5.6	91.4	40.6		
	15000	CUBA	2	S/F	2121.9	2122.8	4.1	59.0	29.0		40L
	15400	PALE	8	S	2122.0E	2122.0	2.0D	68.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	2122.0E	2122.0	1.0D	62.0			QL=2 ST=2 TYP=3
	8800	SGMR	8	S	2122.0E	2122.0	2.0D	61.0			QL=2 ST=2 TYP=3
	9400	HUAN	4	S/F	2128.3	2130.8	5.0	52.5	21.4		
	15000	CUBA	1	S	2130.3	2131.0	2.7	7.0	3.0		9L
31	127	TORN	43	NS	0032.0		370.0		7.0		V=2
	204	IZMI	43	NS	0600.0		360.0	10.0			
	260	ONDR	44	NS	0830.0E	1129.3	390.0D	546.0U			
	235	CUBA	44	NS	1250.0E		520.0D		15.0		
	280	CUBA	44	NS	1310.0E		520.0D		25.0		
	410	LEAR	4	S/F	0030.0E	0032.0	9.0D	250.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0030.0E	0031.0	5.0D	310.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0030.0E	0031.0	1.0D	22.0			QL=4 ST=2 TYP=3
	17000	NOBE	2	S/F	0030.7	0039.6	10.0	44.0			80,35GHz:0
	245	LEAR	8	S	0032.0E	0033.0	1.0D	86.0			QL=4 ST=3 TYP=3
	200	HIRA	42	SER	0032.2	0038.9	9.3	1500.0			0
	245	LEAR	8	S	0040.0E	0040.0	U	210.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0041.0	0046.6	7.3	450.0			MR
	2840	PEKG	5	S	0141.0	0141.5	3.0	11.4			
	245	LEAR	49	GB	0201.0E	0201.0	1.0D	1400.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0227.0E	0227.0	1.0D	270.0			QL=4 ST=2 TYP=3
	17000	NOBE	1	S	0234.0	0234.2	0.6	23.0			L,80,35GHz:0
	17000	NOBE	2	S/F	0249.3	0256.5	13.0	37.0			L,80,35GHz:0
	410	LEAR	8	S	0250.0E	0251.0	1.0D	210.0			QL=4 ST=3 TYP=3
	410	LEAR	8	S	0251.0E	0251.0	1.0D	260.0			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

MARCH 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	2840	PEKG	5	S	0253.0	0307.0	20.0	15.7			
	15400	LEAR	4	S/F	0254.0E	0256.0	3.0D	55.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0255.0E	0256.0	2.0D	54.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0255.0E	0256.0	2.0D	46.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	0409.0E	0424.9	153.7D	10.0			
	950	GORK	2	S/F	0423.3	0423.9	0.9	2.5			
	650	GORK	2	S/F	0423.5	0423.9	0.9	11.0			
	650	GORK	2	S/F	0538.8	0539.0	0.6	13.0			
	950	GORK	3	S	0538.8	0539.0	0.5	13.0			
	9100	GORK	1	S	0604.8	0605.5	1.4	5.0			
	204	IZMI	42	SER	0709.0	0714.3	9.0	125.0			
	245	LEAR	4	S/F	0710.0E	0711.0	3.0D	140.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0710.0E	0711.0	4.0D	150.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	0710.5	1034.7	259.5D	20.0			
	33	UPIC	32	ABS	0811.0	0819.0	39.0				
	2840	PEKG	3	S	0812.0	0814.5	12.0	53.5			
	3000	POTS	4	S/F	0812.4	0814.2	11.6	47.0			
	3013	IZMI	21	GRF	0812.5	0814.6		45.0			
	9100	GORK	4	S/F	0812.7	0814.2	10.7	263.0			
	2850	CRIM	29	PBI	0812.7	0817.7	9.0	9.0	3.0		
	2850	CRIM	4	S/F	0812.7	0814.8	5.0	51.0	17.0		
	2950	GORK	29	PBI	0812.8	0816.2	12.3	13.5			
	1470	POTS	4	S/F	0812.8	0814.5	12.2	51.0			
	2950	GORK	4	S/F	0812.8	0814.8	3.3	40.0			
	8800	LEAR	4	S/F	0813.0E	0814.0	4.0D	210.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0813.0E	0814.0	2.0D	45.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0813.0E	0814.0	2.0D	38.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0813.0E	0814.0	3.0D	110.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0813.0E	0814.0	4.0D	180.0			QL=2 ST=2 TYP=3
	8800	SVTO	4	S/F	0813.0E	0814.0	5.0D	240.0			QL=2 ST=2 TYP=3
	4995	SVTO	4	S/F	0813.0E	0814.0	3.0D	130.0			QL=2 ST=2 TYP=3
	15400	SVTO	4	S/F	0813.0E	0814.0	4.0D	170.0			QL=2 ST=2 TYP=3
	2695	SVTO	8	S	0813.0E	0814.0	2.0D	48.0			QL=4 ST=2 TYP=3
	9500	POTS	4	S/F	0813.0	0814.4	12.0	230.0			
	950	GORK	29	PBI	0813.3	0816.4	12.4	5.0			
	950	GORK	3	S	0813.3	0814.8	3.1	12.0			
	1415	SVTO	8	S	0814.0E	0814.0	1.0D	41.0			QL=4 ST=2 TYP=3
	430	KRAK	8	S	0833.0	0833.5	1.0	47.0			
	245	LEAR	49	GB	0850.0E	0851.0	1.0D	970.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	0850.0E	0851.0	1.0D	1200.0			QL=2 ST=2 TYP=6
	204	IZMI	41	F	0850.3	0850.5	2.5	390.0			
	234	POTS	41	F	0850.7	0850.9	1.2	1400.0			
	204	IZMI	8	S	0918.0	0918.1	0.5	120.0			
	245	LEAR	8	S	0935.0E	0935.0	2.0D	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0935.0E	0935.0	1.0D	230.0			QL=4 ST=2 TYP=3
	430	KRAK	8	S	0951.0	0951.5	0.8	108.0			
	204	IZMI	41	F	1009.3	1009.5	0.5	60.0			
	204	IZMI	42	SER	1024.0	1024.2	21.0	2000.0			
	245	SGMR	49	GB	1123.0E	1124.0	1.0D	600.0			QL=4 ST=3 TYP=6
	1470	POTS	4	S/F	1123.0	1124.3	2.0	28.0			
	234	POTS	42	SER	1123.7	1124.0	18.9	2400.0			
	9100	GORK	2	S/F	1126.0	1128.0	4.3	15.0			
	245	SGMR	8	S	1126.0E	1126.0	1.0D	150.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1126.0E	1126.0	1.0D	330.0			QL=2 ST=2 TYP=3
	536	ONDR	46	C	1126.0	1129.5	3.5	125.0			
	600	HUMN	2	S/F	1126.0	1126.7	1.8	45.0	20.0		
	9500	POTS	40	F	1126.2	1129.4	3.8	15.0			
	950	GORK	41	F	1127.0	1129.1		24.0			
	950	GORK	41	F	1127.0	1127.2	2.7	8.0			
	808	ONDR	4	S/F	1127.0	1127.5	1.5	46.0			
	33	UPIC	32	ABS	1128.0	1132.0	14.0				
	410	SGMR	8	S	1129.0E	1129.0	U	57.0			QL=2 ST=2 TYP=3
	245	SGMR	49	GB	1129.0E	1129.0	U	920.0			QL=2 ST=2 TYP=6
	3000	POTS	4	S/F	1231.0E	1232.5U	3.0D	10.0			
	1470	POTS	42	SER	1338.4	1345.8	10.6	22.0			
	3000	POTS	8	S	1345.0E	1345.8	0.7D	16.0			
	6700	CUBA	1	S	1346.5	1347.2	2.0	9.0	4.0		7R
	9500	POTS	4	S/F	1346.8	1347.4	1.5	17.0			
	245	SGMR	8	S	1428.0E	1428.0	U	330.0			QL=4 ST=2 TYP=3

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

MARCH 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	234	POTS	8 S	1428.2	1428.3	0.4	150.0			
	6700	CUBA	45 C	1648.5	1650.8	9.7	145.0	28.0		17R
	9400	HUAN	45 C	1648.6	1651.0	11.4	246.1	116.4		
	15000	CUBA	46 C	1649.3	1650.9	8.4	122.0	27.0		26L
	2800	OTTA	4 S/F	1649.5	1650.4	14.2	115.0	23.0		
	600	HUMN	1 S	1650.0	1652.5	18.0	18.0	6.0		
	245	PALE	49 GB	1656.0E	1657.0	1.0D	600.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1759.0E	1800.0	1.0D	360.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	1800.0E	1800.0	U	370.0			QL=2 ST=2 TYP=3
	245	PALE	49 GB	1803.0E	1803.0	U	680.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1803.0E	1803.0	2.0D	510.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1807.0E	1808.0	2.0D	51.0			QL=4 ST=2 TYP=3
	235	CUBA	48 C	1905.8	1909.0	5.9	6199.0D			
	280	CUBA	48 C	1905.8	1909.0	5.9	5461.0D			
	8800	PALE	8 S	1908.0E	1909.0	2.0D	280.0			QL=2 ST=2 TYP=3
	15400	PALE	8 S	1908.0E	1909.0	1.0D	400.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1908.0E	1909.0	2.0D	68.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1908.0E	1909.0	2.0D	420.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1908.0E	1909.0	2.0D	150.0			QL=4 ST=2 TYP=3
	4995	PALE	49 GB	1908.0E	1909.0	2.0D	1200.0			QL=2 ST=2 TYP=6
	610	SGMR	4 S/F	1908.0E	1909.0	3.0D	68.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1908.0E	1909.0	2.0D	350.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1908.0E	1909.0	2.0D	440.0			QL=4 ST=2 TYP=3
	4995	SGMR	49 GB	1908.0E	1909.0	2.0D	510.0			QL=4 ST=2 TYP=6
	1415	SGMR	4 S/F	1908.0E	1909.0	3.0D	140.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1908.0E	1909.0	292.0D	430.0			QL=4 ST=1 TYP=3
	6700	CUBA	46 C	1908.6	1909.1	4.0	259.0	49.0		7R
	15000	CUBA	45 C	1908.6	1909.1	2.4	340.0	119.0		11L
	2800	OTTA	4 S/F	1908.6	1909.1	10.8	471.0	94.0		
	245	PALE	49 GB	1909.0E	1909.0	U	6000.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	1909.0E	1909.0	U	48.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1909.0E	1909.0	3.0D	46.0			QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1937.0	2009.0U	32.0D	68.0			20R SUNSET
	2800	OTTA	22 GRF	1939.0	2118.0	360.0D	52.0	26.0		
	9400	HUAN	23 GRF	1943.1	2102.0	165.5	63.9	26.8		
	15000	CUBA	21 GRF	1956.0E	2046.0	50.0D	70.0	35.0		00L
	245	PALE	49 GB	2000.0E	2001.0	1.0D	900.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	2000.0E	2001.0	1.0D	740.0			QL=4 ST=2 TYP=6
	9400	HUAN	4 S/F	2007.2	2008.5	4.3	41.5	20.2		
	6700	CUBA	1 S	2007.9	2008.7	1.6	23.0	11.0		30R
	15000	CUBA	1 S	2008.6	2008.7	2.2	19.0	8.0		18L
	245	PALE	49 GB	2240.0E	2241.0	1.0D	580.0			QL=4 ST=2 TYP=6
	245	SGMR	4 S/F	2240.0E	2241.0	3.0D	400.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

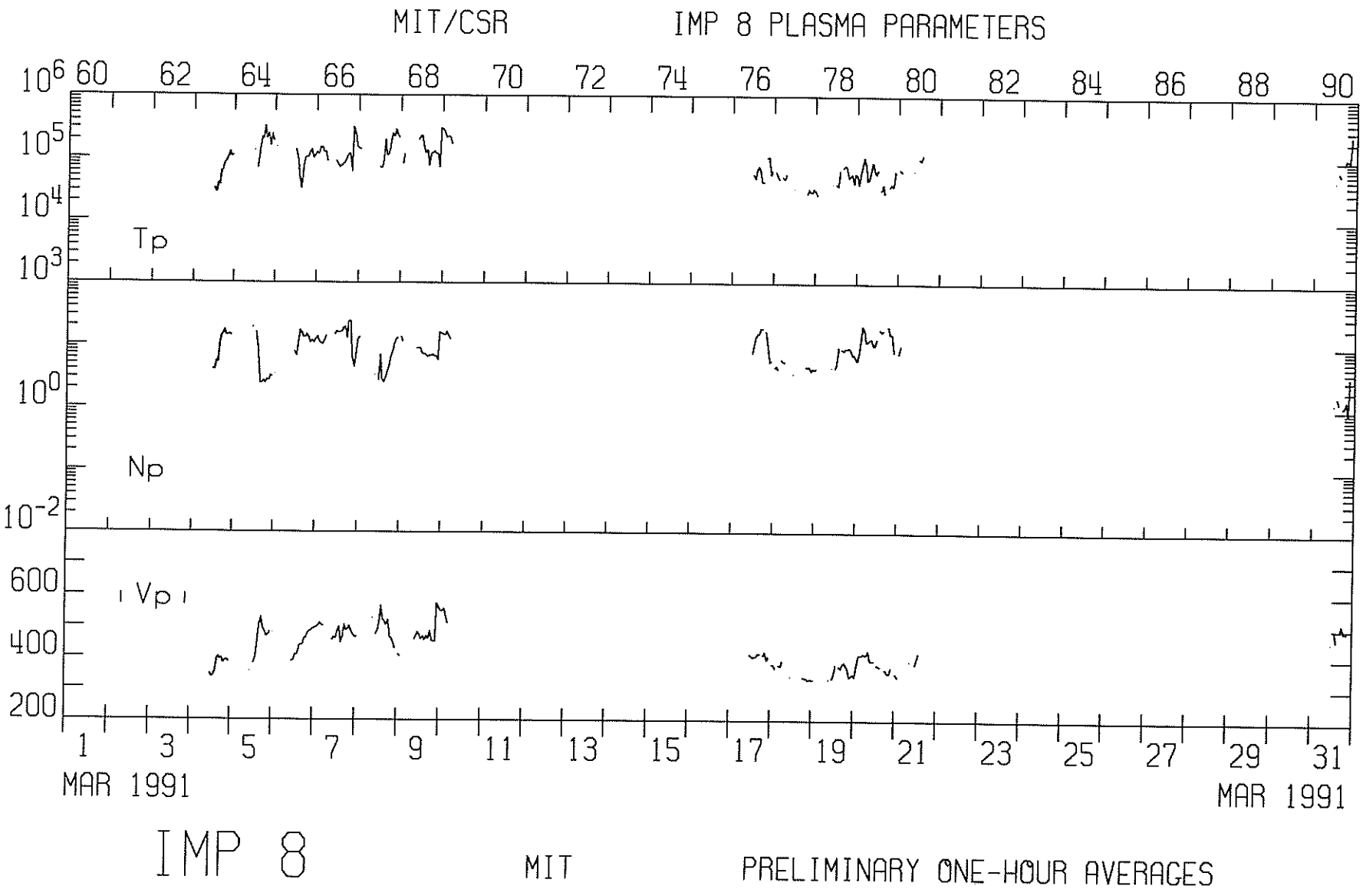
BERN = Berne	IZMI = IZMIRAN	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	KISK = Kislovodsk	OTTA = Ottawa	SYDN = Sydney
GORK = Gorky	KRAK = Krakow	PALE = Palehua	TORN = Torun
HIRA = Hiraiso	LEAR = Learmonth	PENT = Penticton	TRST = Trieste
HUAN = Huancayo	NOBE = Nobeyama	POTS = Potsdam	TYKW = Toyokawa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

Explanation of Type Code:

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

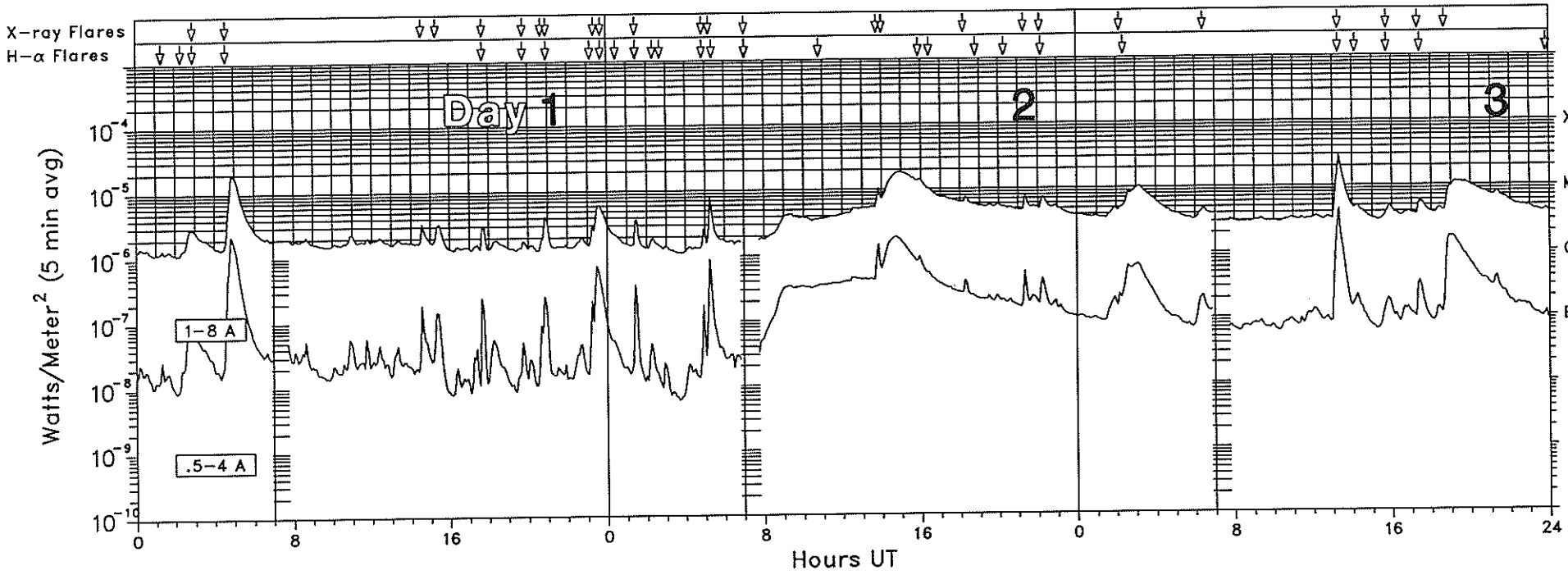
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A

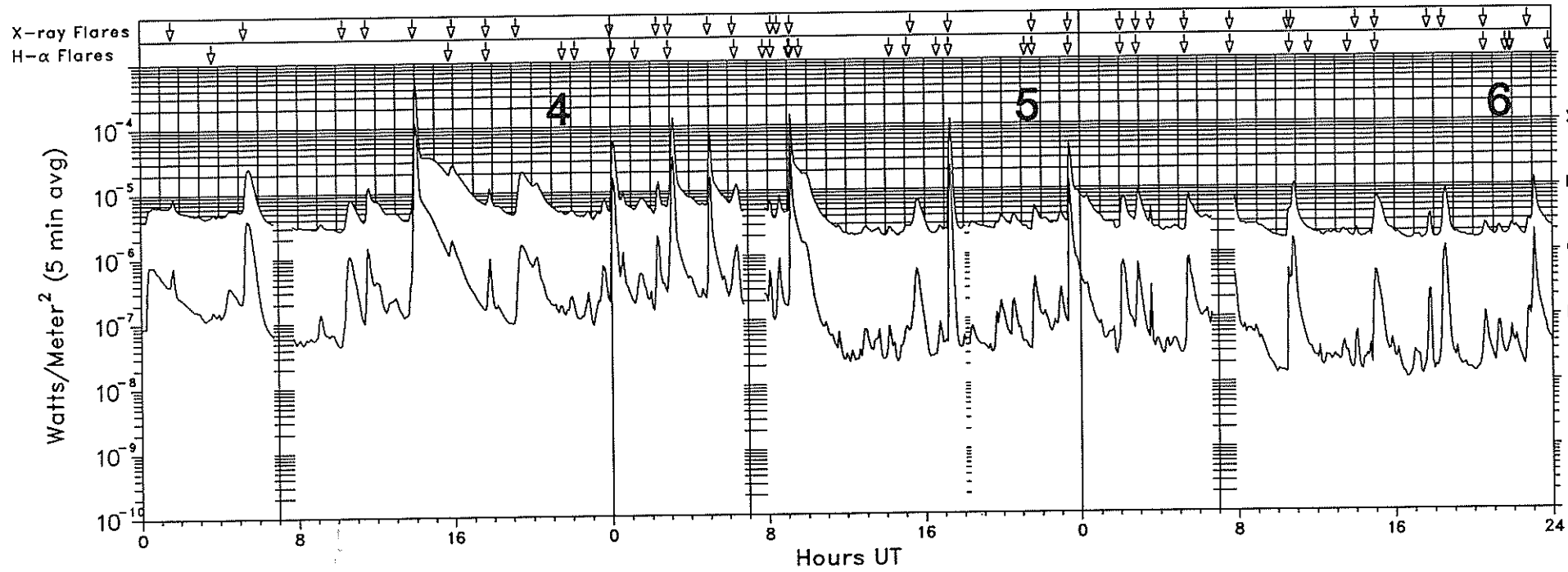
IMP 8 SOLAR WIND PLASMA
MARCH 1991



GOES-7 X-RAY DETECTOR

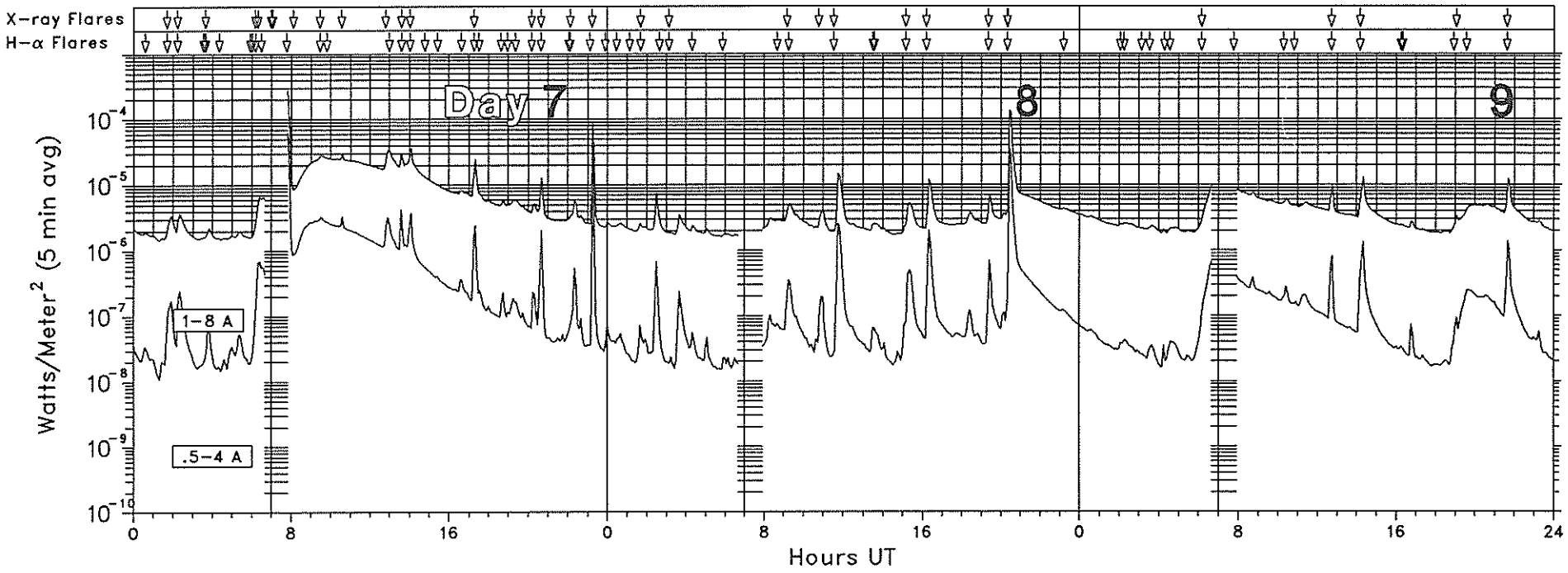
March 1991

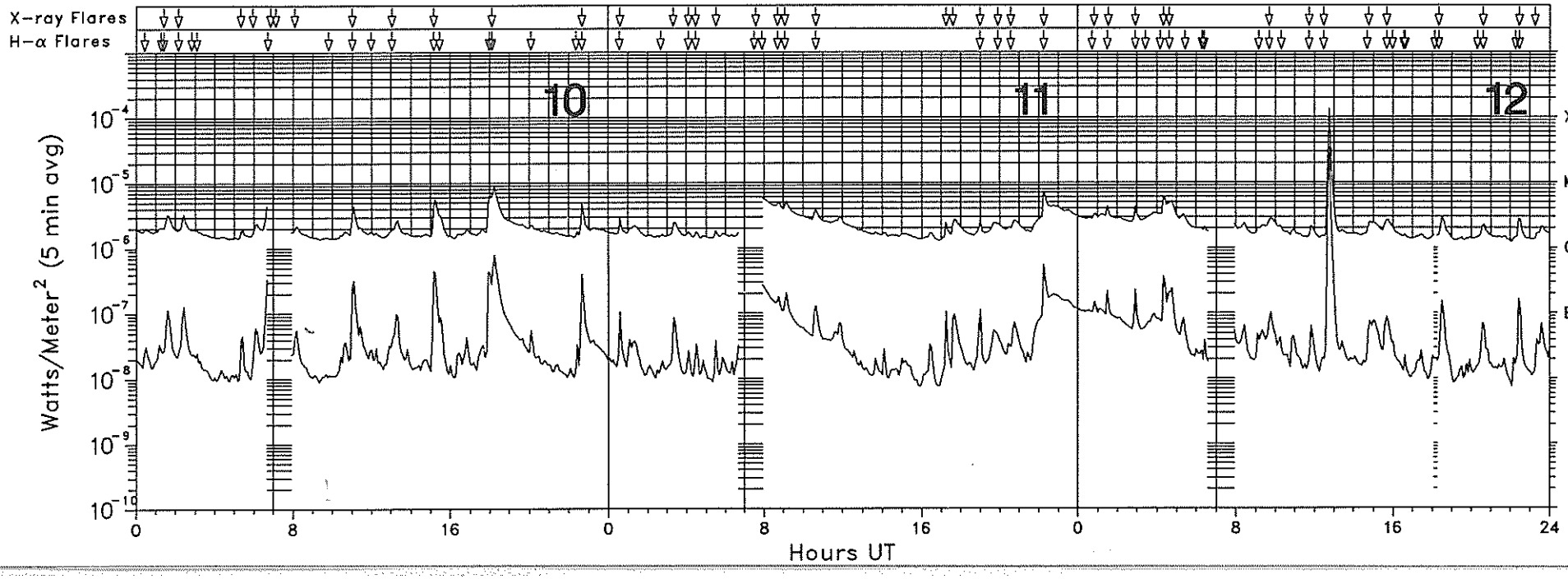




GOES-7 X-RAY DETECTOR

March 1991





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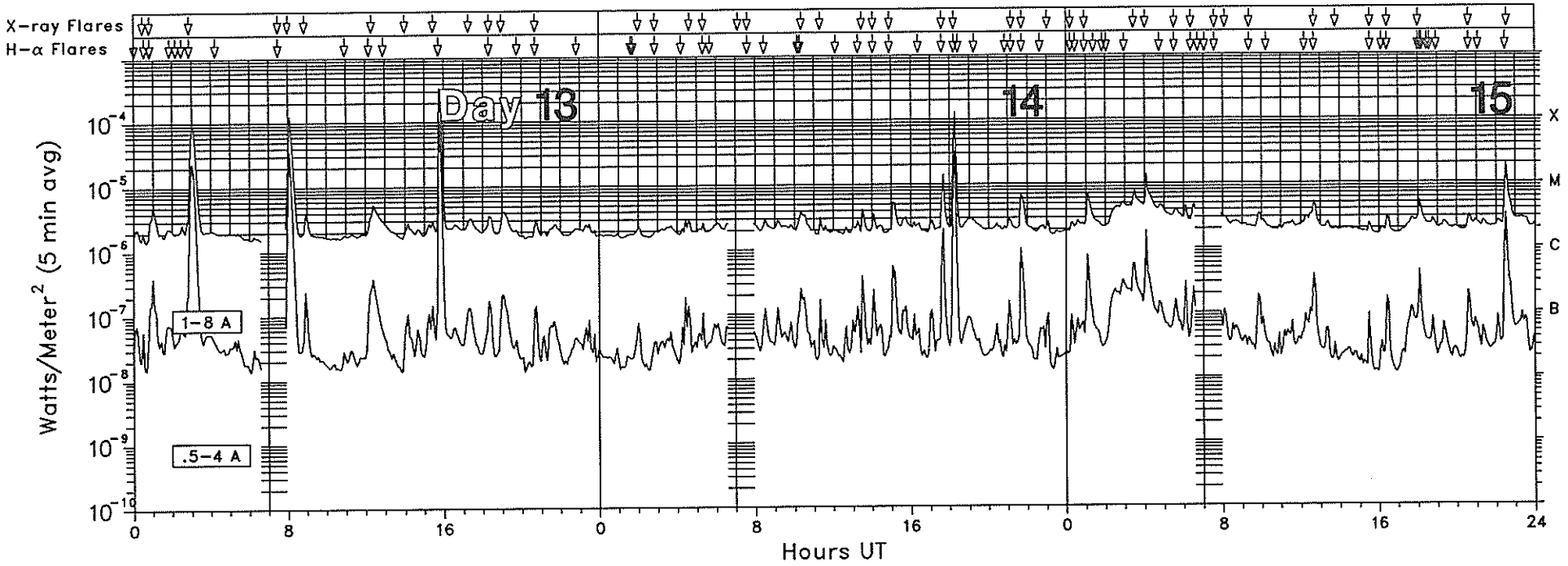
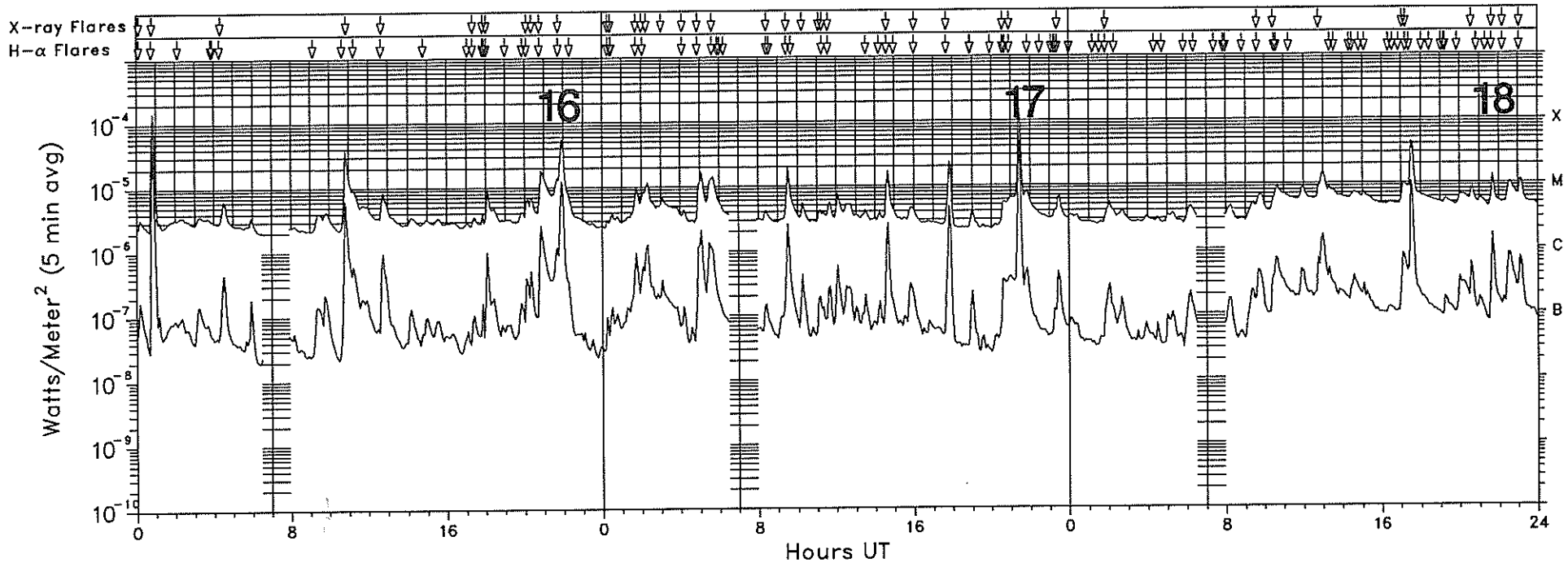
Mar 91

GOES-7 X-RAY DETECTOR

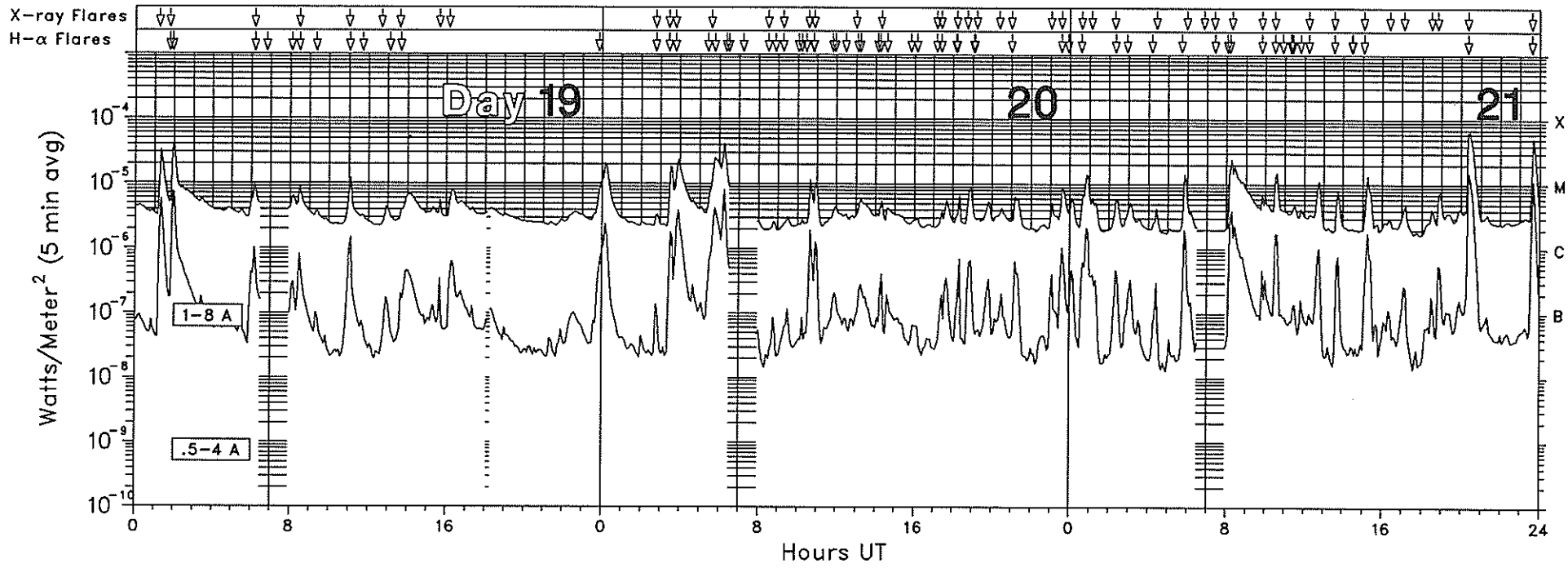
March 1991

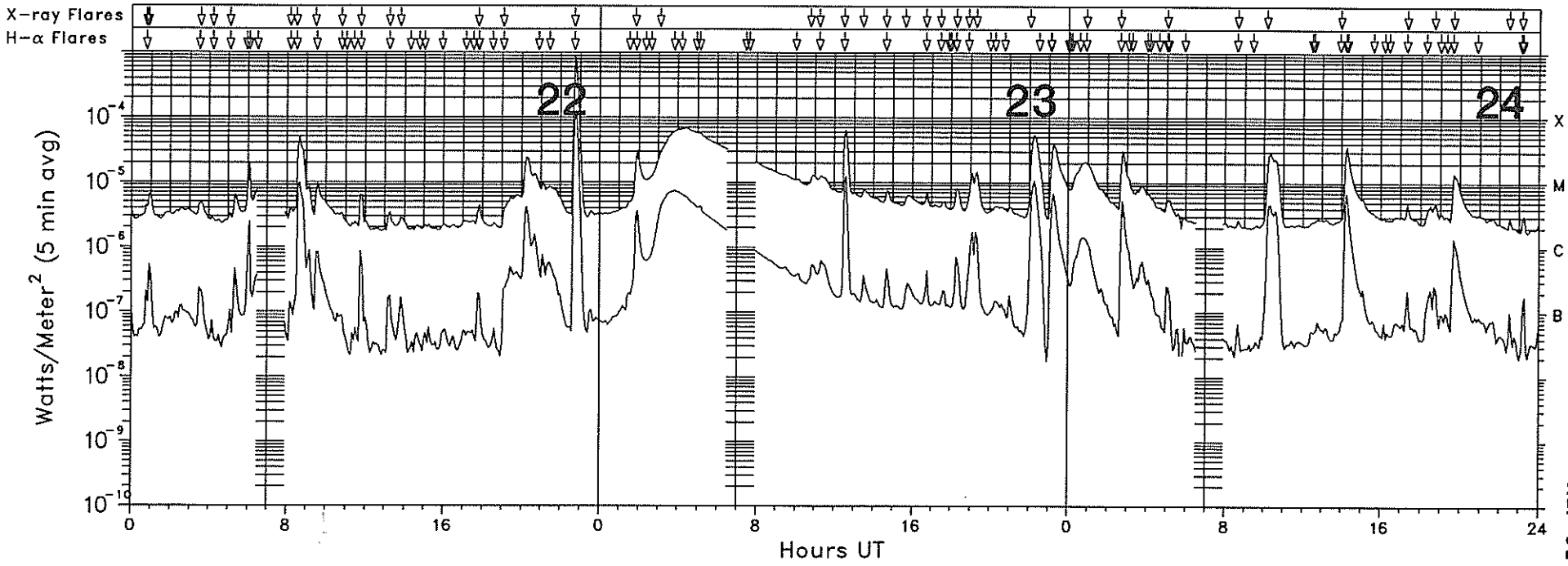




GOES-7 X-RAY DETECTOR

March 1991





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Mar 91

GOES-7 X-RAY DETECTOR

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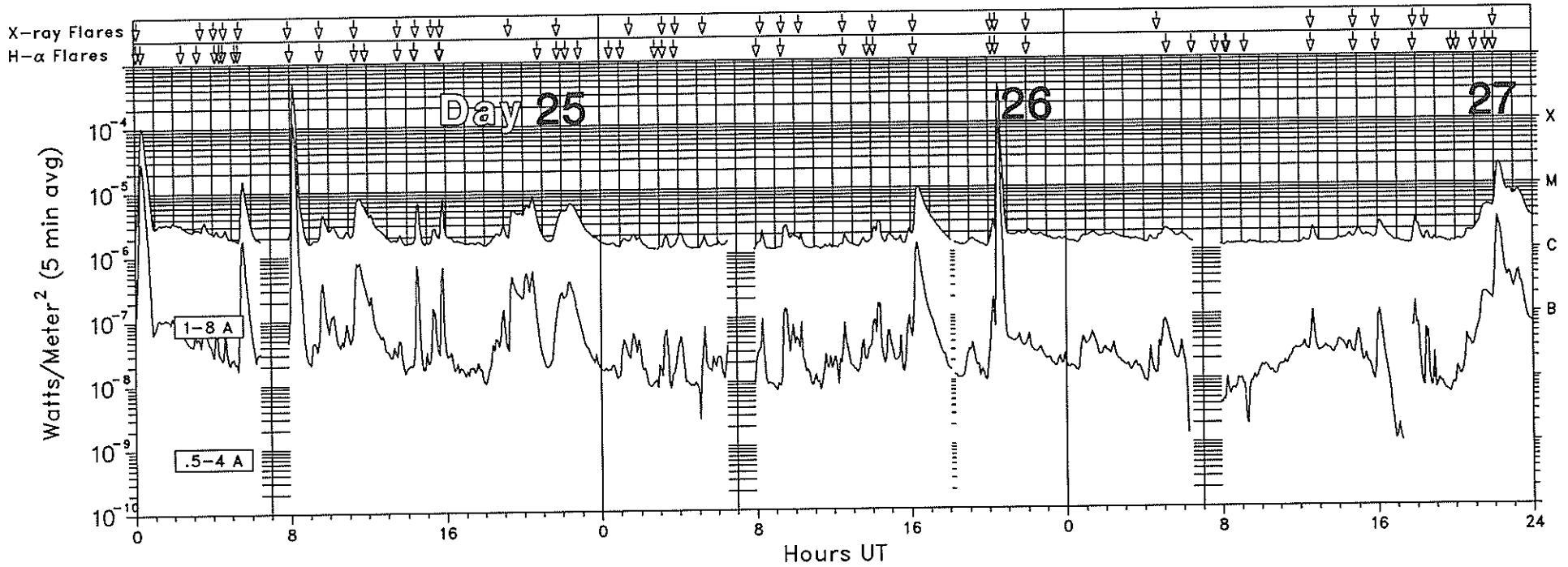
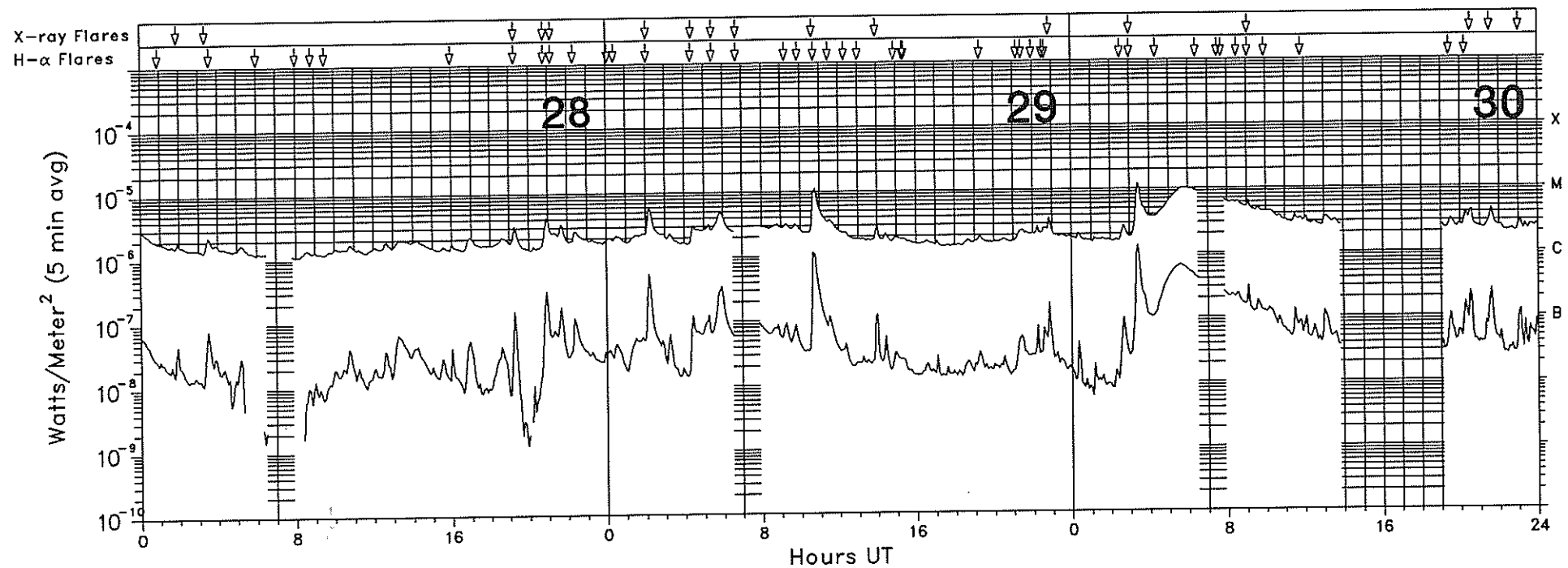
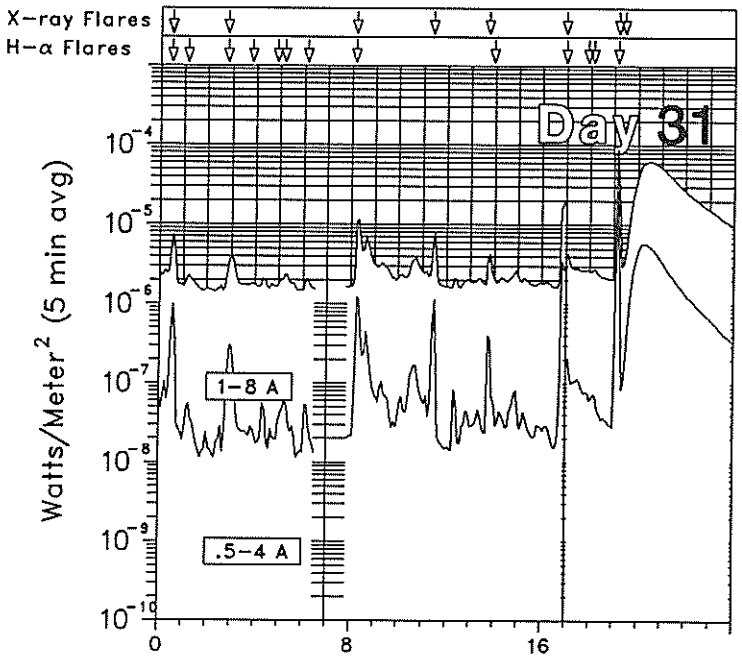




GOES-7 X-RAY DETECTOR

March 1991



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

March 1991

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
01	0255E	0302	0304D	S13	W52	SF	C3.0	6508
01	0436E	0451	0548	N19	W41	2B	M2.0	6514
01	1434	1439	1443				C3.7	
01	1519	1529	1536				C3.3	
01	1743E	1743	1755D	S23	W67	SF	C4.6	6509
01	1946E	1946	1957D	S12	W62	SF	C1.8	6508
01	2041	2045	2049				C2.4	
01	2056E	2057	2059D	S15	W61	SF	C5.0	6508
01	2321E	2321	2331D	S21	W66	SF	C4.0	6509
01	2343E	2343	2351	S10	W32	SF	C6.3	6516
02	0127E	0128	0136D	S17	W74	1N	C7.5	6509
02	0453E	0514	0532D	S17	W76	1N	C2.7	6508
02	0513E	0518	0536D	S23	W74	1F	C8.8	6509
02	0703E	0705	0729D	S20	W72	SF	C7.1	6509
02	1346	1349	1358				M1.1	
02	1402	1457	1644				M1.8	
02	1813	1817	1827				C7.7	
02	2118	2123	2131				C8.1	
02	2209	2216	2224				C7.6	
03	0211	0307	0338				M1.1	
03	0625E	0631	0633D	S22	W81	SF	C5.0	6509
03	1318E	1320	1324D	S19	W90	SF	M2.9	6508
03	1546E	1552	1628D	N11	E61	1N	C5.0	6530
03	1720	1730	1746				C5.7	
03	1842	1907	2053				M1.1	
04	0136	0140	0156				C9.3	
04	0518	0533	0617				M2.5	
04	1020	1046	1054				C8.2	
04	1132	1140	1233				M1.4	
04	1356	1403	1548				X7.1	
04	1556	1556U	1557	N19	E70	2F	M2.7	6536
04	1743E	1749	1851D	N07	W36	1N	M1.3	6529
04	1914	1934	2124				M2.0	
04	2359	0009	0028				M6.7	
05	0219	0226	0300				M1.5	
05	0256E	0312	0325D	S23	E88	3N	X1.5	6538
05	0458	0506	0545				M9.3	
05	0615	0628	0633				M1.4	
05	0812E	0819	0822D	S20	E90	SF	C8.6	6538
05	0831	0837	0843				C8.9	
05	0910E	0916	0945D	S19	E93	3B	X2.0	6538
05	1520	1538	1552				C7.2	
05	1716E	1718U	1748D	S09	E69	2B	X1.4	6537
05	2135E	2138	2211D	N06	W54	SF	C5.4	6529
05	2326E	2326	2345D	S23	E79	SF	M6.2	6538
06	0205E	0206	0224D	S19	E74	SF	C7.1	6538
06	0253E	0257	0313D	N17	E68	1F	C9.9	6536
06	0337E	0338	0344D	S24	E75	SF	C7.3	6538
06	0520E	0527	0549D	S19	E72	1F	C8.7	6538
06	0740E	0743	0806D	S22	E77	SB	M1.3	6538
06	1036	1040	1042				M1.0	
06	1047	1056	1106				M1.2	
06	1403	1406	1408				C2.7	
06	1502E	1504	1518D	N20	E64	SF	C7.3	6536
06	1742	1751	1754				C4.6	
06	1826	1837	1845				C9.2	
06	2033E	2038	2050D	S24	E70	SF	C2.8	6538
06	2246E	2304	2310D	S24	E67	1N	M1.3	6538
07	0142E	0152	0222D	S26	E76	SF	C3.6	6538
07	0214E	0216	0259D	S21	E67	SF	C3.7	6538
07	0339E	0349	0404D	S27	E75	SF	C2.4	6538
07	0611E	0748	0937D	S20	E66	3B	X5.5	6538
07	0619	0640	0644				C7.8	
07	0700	0703	0705				C7.2	
07	0705E	0710	0715D	S23	E64	1F	M1.8	6538
07	0808	0920	1215				M2.5	
07	0927E	0929	0959D	S10	E45	1N	M2.9	6537
07	1034	1037	1039				M3.3	
07	1248	1259	1327				M3.5	
07	1336E	1339	1344D	S25	E59	SF	M4.5	6538
07	1403E	1404	1426D	S22	E62	SF	M5.0	6538
07	1716E	1719	1736D	S11	E40	1B	M2.9	6537
07	2011E	2020	2027D	S24	E62	SF	C6.2	6538
07	2039E	2043	2051D	S24	E56	SN	M1.5	6538
07	2208E	2226	2248D	S24	E61	SN	C7.5	6538
07	2314	2319	2329	S24	E53	2B	X2.5	6538
08	0141E	0232	0308D	S24	E54	1B	M1.0	6538
08	0308E	0344	0404D	S22	E53	SF	C3.6	6538
08	0911	0921	0930				C5.3	
08	1048	1101	1105				C4.7	
08	1133E	1145	1219D	S26	E49	SB	M1.5	6538
08	1509E	1517	1543D	S23	E47	SN	C5.5	6538
08	1612E	1622	1641D	S22	E50	1B	M1.2	6538
08	1922	1929	1937D	S23	E44	SF	C7.5	6538
08	2019	2022	2024				C4.9	
08	2020E	2029	2033	S24	E43	2B	X1.7	6538
09	0609E	0646	0740	S16	E39	2F	M1.4	6537
09	1243E	1245	1256D	S25	E46	SF	M1.3	6538
09	1411E	1413	1432D	S23	E34	SN	M1.4	6538
09	1903E	1903U	1933D	N16	E22	1N	C4.0	6536
09	2137	2142U	2208	S26	E36	SN	M1.4	6538
10	0124E	0136	0209D	N14	E14	1F	C3.4	6536
10	0209E	0223	0246D	S22	E28	1F	C3.6	6538
10	0520	0527	0533				C2.1	
10	0558E	0604	0607D	S23	E32	SF	C2.4	6538
10	0651		0730D	S23	E32	SF	C7.4	6538
10	0708	0712	0714				C4.8	
10	0806	0811	0819				C2.3	
10	1101	1106	1111				C5.0	
10	1303E	1317	1325D	S26	E28	SF	C3.0	6538
10	1509E	1511	1559	S24	E26	SF	C5.8	6538
10	1806E	1817U	1829D	S22	E19	1B	C9.9	6538
10	2240E	2240	2256D	S23	E17	SF	C5.1	6538
11	0035E	0036	0040D	S25	E29	SF	C3.0	6538
11	0319	0325	0333				C2.6	
11	0405E	0406	0419D	S08	W01	SF	C1.8	6537
11	0428E	0435	0448D	S25	E20	SF	C1.8	6538
11	0531E	0535	0536D	S23	E19	SF	C2.1	6538
11	0734	0734	0814D	S23	E11	1B	M3.6	6538
11	0842E	0847	0858D	S08	W04	SN	C5.3	6537
11	0904E	0910	0922D	S25	E18	SF	C5.5	6538
11	1039E	1044U	1059	S09	E73	SF	C4.2	6545
11	1715	1719	1721				C3.2	
11	1735	1742	1759				C2.8	
11	1859	1902U	1908	S24	E15	SF	C3.9	6538
11	1954	1958U	2002	S09	E63	SF	C2.5	6545
11	2034E	2045U	2112D	S28	E13	SF	C2.6	6538
11	2215E	2220U	2306	S07	W13	SF	C8.0	6537

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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region
12	0049	0054	0057				C4.2	
12	0132E	0132	0139	S24	E02	SF	C5.6	6538
12	0254	0258	0301				C4.5	
12	0419	0424	0431				C7.6	
12	0437	0440	0442				C6.6	
12	0940E	0949	1006D	N11	W24	SF	C3.0	
12	1143E	1150	1225	S13	E60	SF	C2.3	6545
12	1228E	1250	1316D	S07	E59	2B	X1.7	6545
12	1446E	1446	1533D	S22	W04	SF	C2.5	6538
12	1540E	1604	1608D	S24	E01	SF	C2.6	6538
12	1819E	1833	1908D	S22	W12	SN	C3.2	6538
12	2037E	2038	2056D	S09	E56	SF	C2.3	6545
12	2227E	2227	2236	S08	E56	SF	C3.7	6545
12	2316E	2339	2347	S11	E48	2B	C2.3	6545
13	0028	0032	0034				C2.2	
13	0048E	0101	0124D	S26	W08	1N	C5.7	6538
13	0253E	0310	0344	S11	E48	2B	M9.7	
13	0730E	0733	0742D	S09	E46	1N	M1.4	6545
13	0800	0804	1014	S11	E43	2B	X1.3	6545
13	0853	0859	0905				C4.1	
13	1219E	1227U	1234	S09	E46	SF	C5.9	6545
13	1400	1411	1416				C3.0	
13	1528	1559	1616D	S12	E41	2N	X3.9	6545
13	1717	1727	1730				C3.4	
13	1820	1827U	1839D	S11	E45	SF	C3.7	6545
13	1858	1907	1919				C4.2	
13	2042E	2044	2103D	S10	E43	SF	C3.4	6545
14	0201E	0204	0208D	S09	E34	SF	C2.6	6545
14	0251E	0251	0254D	S09	E38	SF	C2.6	6545
14	0437	0440	0442				C4.2	
14	0520E	0521	0528D	S10	E35	SF	C3.1	6545
14	0707	0711	0713				C3.4	
14	0736E	0737	0752D	S09	E35	SF	C3.3	6545
14	1021E	1031	1043	S09	E30	SF	C4.7	6545
14	1119	1123	1126				C3.9	
14	1328E	1335	1345D	S10	E29	SF	C5.2	6545
14	1403E	1404	1413D	S09	E31	SF	C4.0	6545
14	1454E	1509	1540	S09	E31	1N	C6.4	6545
14	1736E	1739	1755D	S09	E28	SN	M2.1	6545
14	1812E	1814	1831D	S10	E25	1B	X1.8	6545
14	2110E	2110	2120D	S09	E27	SF	C3.4	6545
14	2142E	2142	2156D	S09	E26	SF	C9.7	6545
14	2302	2306	2308				C3.3	
15	0013E	0018	0039D	S10	E25	SF	C2.9	6545
15	0056E	0105	0148D	S32	W70	1F	C7.7	6544
15	0327E	0330	0347D	S08	E20	SF	M1.0	6545
15	0402E	0405	0515D	S10	E22	1B	M1.6	6545
15	0531E	0541	0626D	S10	E25	SF	C5.6	6545
15	0622E	0636	0652D	S12	E74	1N	C5.5	6548
15	0734E	0740	0821D	S09	E21	1B	M1.0	6545
15	0806	0809	0811				C3.7	
15	0921E	0954	1022D	S09	E19	SN	C4.0	6545
15	1240	1243	1248				C5.7	
15	1346	1348	1350				C2.1	
15	1533E	1533	1541D	S21	W47	SF	C3.2	6538
15	1626E	1630	1640D	S12	E14	SN	C3.8	6545
15	1800E	1805	1816D	S10	E15	SN	C5.8	6545
15	2036E	2037	2059	S10	E17	SF	C3.4	6545
15	2233	2234U	2339D	S11	E08	SN	M2.1	6545
16	0007E	0011	0041D	S10	E15	SN	C3.6	6545
16	0047E	0050	0109D	S09	E09	2B	X1.8	6545
16	0421E	0433	0501D	S13	E10	SN	C6.8	6545
16	1052	1054	1114D	S14	E05	1B	M4.8	6545
16	1241E	1246	1308D	S09	E01	SN	C9.2	6545
16	1720E	1721	1725D	S18	W66	SF	C3.5	6538
16	1751E	1753	1800D	S20	W63	SF	C4.8	6538
16	1801E	1806	1820D	S10	W02	1B	M1.1	6545
16	2006E	2007	2019D	S16	W67	SF	C8.0	6538
16	2021E	2021	2029D	S20	W64	SF	C7.9	6538
16	2046E	2046	2100D	S19	W65	SF	M1.9	6538
16	2144E	2156	2220	S09	W04	2B	M6.0	6545
17	0016E	0017	0022D	S10	W05	SF	C3.2	6545
17	0024E	0027	0042D	S22	W58	SF	C4.3	6538
17	0142E	0145	0220D	S20	W67	SN	M1.1	6538
17	0200	0209	0213				C8.5	
17	0215E	0217	0306D	S29	E90	1B	M1.2	6555
17	0301E	0306	0311	S24	W53	1F	C7.3	6538
17	0406E	0409	0446D	S10	W03	1N	C4.4	6545
17	0453E	0455	0508D	S25	E90	SN	M1.8	6555
17	0538E	0545	0602D	S18	W73	SN	M1.4	6538
17	0824E	0825	0834D	S22	E12	SF	C4.5	6546
17	0926E	0932	0953D	S25	E83	2B	M2.1	6555
17	1013	1018	1023				C6.3	
17	1105	1110	1113				C4.8	
17	1115E	1123	1127D	S24	E81	SF	C4.0	6555
17	1134E	1143	1204D	S09	W14	SF	C8.4	6545
17	1435E	1440	1452D	S26	E93	2B	M2.3	6555
17	1600E	1601	1611D	S10	W13	SF	C4.7	6545
17	1740E	1750	1805D	S10	W14	SB	M2.4	6545
17	2033E	2040	2126D	S22	E87	1F	C6.5	6555
17	2054E	2126	2305	S10	W13	2B	X1.0	6545
17	2322E	2328	2343D	S25	E77	1N	C8.6	6555
18	0151E	0155	0215D	S23	E77	1N	C5.6	6555
18	0936E	0943	1002D	S10	W24	SN	C8.0	6545
18	1026	1042	1108				C9.6	
18	1245	1301	1544				M1.6	
18	1703	1708	1724				M1.0	
18	1713E	1731	1809D	S10	W24	1B	M5.3	6545
18	2035	2040	2045				C9.8	
18	2138E	2140	2158D	S10	W31	SB	M1.4	6545
18	2211E	2219	2300	S24	E68	SF	M1.0	6555
18	2303	2307U	0017D	S10	W34	2B	M1.3	6545
19	0115	0122	0155				M3.6	
19	0147E	0158	0240D	S10	W33	2B	M6.7	6545
19	0612E	0612	0623D	S10	W35	SF	M1.2	6545
19	0829E	0830	0838D	S25	E63	SF	C9.4	6555
19	1100	1106	1113				M1.7	
19	1241	1304	1307				C5.1	
19	1336	1406	1434				C6.8	
19	1538	1542	1544				C6.5	
19	1609	1618	1632				C8.4	
20	0245	0251	0256				C3.6	
20	0326	0333	0346				M1.9	
20	0346	0350	0502	S09	W41	1N	M2.5	6545
20	0535	0616	0635D	S25	E52	1N	M7.0	6555
20	0829E	0834	0848D	S19	E56	1F	C2.8	
20	0915	0934	0936				C3.7	
20	1035	1043	1049				M1.7	
20	1052	1102	1108				M1.1	
20	1300	1316	1338				C5.8	
20	1417	1417U	1515	S20	E57	SF	C6.1	6555
20	1710E	1740	1811D	S21	E53	1N	C6.2	6555

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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp	Opt	Xray	NOAA/ USAF Region
20	1724E	1724	1753D	S11	W52	SF		C4.5	6545
20	1812E	1821	1836D	S21	E53	SN		M1.1	6555
20	1845	1857	1902					C9.7	
20	1914E	1956	2035D	S28	E47	1N		C6.0	6555
20	2023	2029	2035					C4.3	
20	2100E	2111	2350	S23	E52	1N		C8.3	6555
20	2301	2307	2311					C5.9	
20	2333E	2333	2350	S29	E42	SF		C9.5	6555
21	0036E	0050	0110D	S23	E51	2B		M1.5	6555
21	0106	0113	0116					C6.5	
21	0218	0229	0231					C6.7	
21	0425E	0429	0437D	S25	E51	SF		C4.7	6555
21	0558	0559	0606D	S24	E53	SF		M1.6	
21	0651	0656	0701					C5.5	
21	0723E	0737U	0809	S21	E47	1F		C5.8	6555
21	0818	0818	0836D	S09	W66	1N		M2.7	
21	0949E	0954	1021D	S24	E48	SF		C8.0	6555
21	1029E	1041	1051D	S24	E48	2B		M2.6	6555
21	1214E	1248	1306D	S19	E41	SN		M1.1	6555
21	1333E	1346	1410D	S23	E38	SN		C9.4	6555
21	1503E	1528	1550D	S24	E44	1N		M1.7	6555
21	1622	1625	1627					C3.6	
21	1706	1710	1714					C5.4	
21	1829	1833	1838					C4.5	
21	1849	1855	1902					C9.1	
21	2020	2022U	2131	S13	E29	1N		X1.0	6555
21	2337E	2343	0126D	S25	E40	2B		M5.4	6555
22	0045	0049	0054					C4.8	
22	0052E	0057	0115D	S24	E31	SN		C8.0	6555
22	0333E	0335	0407D	S24	E31	SN		C5.3	6555
22	0411E	0413	0416D	S00	W10	SF		C3.0	6549
22	0504E	0521	0549D	S22	E29	1N		C3.5	6555
22	0810	0814	0821					C4.3	
22	0830E	0838	0924D	S25	E35	1B		M6.3	6555
22	0928E	0939	1009D	S23	E25	1B		M1.0	6555
22	1047E	1051	1107D	S03	W15	SF		C3.7	6549
22	1144E	1150	1219D	S19	E29	1B		M1.3	6555
22	1313E	1314	1321D	S11	W81	SF		C4.8	6545
22	1346	1353	1358					C2.9	
22	1746E	1748	1806D	S15	E14	1N		C5.3	6556
22	1903E	2017	2153D	S27	E23	1B		M2.5	6555
22	2243E	2245	2317D	S26	E28	3B		X9.4	6555
23	0149	0154	0205					M3.3	
23	0305	0510U	0623	S24	E11	2B		M6.8	6555
23	1046E	1052	1148D	S10	E54	1N		M1.3	6558
23	1113E	1121	1201D	N12	W68	SF		M1.3	6553
23	1229E	1242	1305D	S20	E14	1B		M6.8	6555
23	1327	1332	1340					C8.2	
23	1437E	1442	1445D	S25	E20	SF		C6.8	6555
23	1536	1548	1606					C6.5	
23	1640E	1645	1707D	S28	E18	SN		C7.5	6555
23	1726E	1727	1743D	S25	E11	SF		C5.8	6555
23	1816E	1816	1850D	S26	E17	SN		C8.8	6555
23	1853	1908U	1953	S26	E17	SN		M1.5	6555
23	1917	1918U	2200	S28	E17	SN		M1.6	6555
23	2202E	2222	2249D	S23	E06	2B		M5.6	6555
24	0055	0055U	0111	S17	W29	2F		M2.1	6550
24	0239E	0244	0421D	S15	E51	2B		M3.2	6558
24	0501E	0509	0550D	S26	W02	SF		C6.1	6555
24	0838	0841	0847					C2.7	
24	1008	1021	1056					M3.0	
24	1357E	1416	1442D	S26	W01	1N		M3.7	6555
24	1718E	1718	1730D	S22	W06	SF		C5.0	6555
24	1841	1845	1852					C5.2	
24	1938E	1942	2019D	S14	E42	SN		M1.4	6558
24	2227E	2230	2243D	S24	W07	SF		C2.9	
24	2308	2311	2313					C3.8	6555
25	0008E	0022	0100D	S24	W08	3B		X1.1	6555
25	0327E	0332	0342D	S13	E37	SF		C3.7	6558
25	0410E	0413	0418D	S13	E37	SF		C2.8	6558
25	0440E	0441	0447D	S28	W06	SF		C2.9	6555
25	0527E	0535	0610D	S27	W10	1B		M1.5	6555
25	0758E	0818	0844D	S24	W13	3B		X5.3	6555
25	0935E	0938	1015	S25	W12	SF		C4.6	6555
25	1124E	1142	1218D	S24	W13	SN		C8.3	6555
25	1337E	1339	1355D	S15	E36	SF		C1.8	6558
25	1431E	1436	1452D	S27	W10	1F		C7.9	6555
25	1520	1525	1530					C3.0	
25	1546E	1548	1602D	S27	W11	1N		C9.0	6555
25	1920	2033	2042					C8.6	
25	2150	2211	2253	S01	W62	1N		C6.3	6549
26	0133E	0144	0152D	S24	W22	1N		C2.4	6555
26	0315E	0320	0335D	S24	W23	SF		C2.0	6555
26	0355E	0404	0418D	S14	E24	1F		C2.2	6558
26	0520	0523	0526					C2.1	
26	0819E	0824	0830D	S27	W26	SF		C2.4	6555
26	0924E	0929	0947D	S24	W27	SN		C2.8	6555
26	1019	1022	1025					C2.2	
26	1235E	1236	1241D	S24	W26	SF		C2.0	6555
26	1409E	1416	1418D	S11	E20	SF		C3.2	6558
26	1614E	1627	1656D	S22	W30	SF		M1.0	6555
26	2011E	2015	2024D	S22	W34	SF		C3.3	6555
26	2026	2034U	2137	S28	W23	3B		X4.7	6555
26	2202E	2209	2223D	S14	E14	SF		C2.3	6558
27	0446	0449	0452					C2.0	
27	1241E	1241	1248D	S24	W39	SF		C2.3	6555
27	1451E	1456	1528D	S12	E08	SF		C2.0	6558
27	1559E	1605	1615D	S19	W50	SF		C2.6	6555
27	1754E	1757	1819D	S27	W39	SF		C3.1	6555
27	1831	1835	1837					C2.4	
27	2202E	2212	2327D	S24	W47	1B		M2.1	6555
28	0153	0156	0159					C2.3	
28	0321	0331	0341					C2.4	
28	1916E	1916	1923D	N16	W42	SF		C3.3	6559
28	2047E	2059U	2115D	N16	W43	SF		C4.7	6559
28	2109E	2140	2204D	S28	W49	SF		C3.5	6555
29	0203E	0212	0240D	N15	W48	SN		C6.0	6559
29	0422	0516	0524					C3.3	
29	0526E	0551	0630D	S26	W62	1F		C4.8	6555
29	0642E	0648	0734D	S28	W60	3B		X2.4	6555

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Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp	Opt	Xray	NOAA/ USAF Region
29	1037	1047	1106					M1.1	
29	1357	1400	1403					C4.7	
29	2250	2254	2256					C4.6	
30	0259E	0321	0340D	S26	W64	1N		M1.2	6555
30	0904E	0908	0920D	S22	W75	1B		C7.7	6555
30	2031	2036	2038					C5.4	
30	2131	2138	2143					C4.7	
30	2301	2306	2311					C3.3	
31	0030E	0032	0041D	S22	W82	SF		C3.1	6555
31	0031E	0038	0045D	S19	W80	SF		C7.6	6555
31	0249E	0256	0312D	S24	W77	SF		C4.2	6555
31	0812E	0819	0841D	S24	W80	2N		M1.5	6555
31	1125	1133	1137					C8.7	
31	1345	1350	1355					C5.2	
31	1659E	1659	1705D	S23	W89	SF		M2.4	6555
31	1911E	1911	1919D	S22	W88	SF		X1.0	6555
31	1927	2034	2359					M6.3	

Preliminary GOES Satellite Data
Daily Average X-ray Background
Apr 1990 - Mar 1991

Day	1990 Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	1991 Jan	Feb	Mar
1	B7.4	B3.1	B3.1	C1.2	C1.3	B8.7	B5.1	B3.8	C1.0	B7.4	C2.7	C1.3
2	B5.2	B4.2	B3.7	C1.4	C1.2	B8.6	B7.9	B3.7	B7.6	B7.6	C3.9	C2.3
3	B7.8	B2.8	B3.6	C1.2	B7.8	B6.6	C1.5	B4.0	B7.6	B7.4	C3.2	C2.9
4	B6.9	B2.7	B3.8	C1.1	B7.1	B7.3	C1.1	B5.2	B8.6	B7.8	C3.2	C2.9
5	B6.1	B4.4	B4.8	C1.1	B6.9	C1.0	B8.6	B6.7	C1.1	B9.5	C2.0	C2.1
6	B5.4	B5.7	B8.5	C1.0	B7.0	B6.0	B6.9	B9.4	C1.3	C1.1	C2.1	C1.8
7	B4.6	B7.7	C1.2	C1.1	B7.0	B6.6	B9.0	C1.1	C1.2	C1.5	C1.9	C2.2
8	B4.6	B9.8	C1.0	C1.1	B9.6	B5.9	B8.9	B9.8	C1.2	C2.3	C2.0	C1.8
9	B4.8	C1.0	B9.1	C1.1	B7.8	B6.5	B9.0	B8.6	C1.5	C2.0	B8.5	C1.9
10	B6.1	C1.4	C1.3	B9.7	B7.9	B6.9	B6.5	B7.6	C1.8	C1.9	B7.1	C1.4
11	C1.0	C1.5	C1.0	B7.9	B7.2	B8.7	B6.9	B9.6	C2.1	C1.3	B7.3	C1.4
12	C1.2	---	C1.1	B6.0	B7.9	B7.5	B6.4	C1.1	C2.1	B9.4	C1.0	C1.6
13	---	C1.5	C1.0	B7.8	B8.2	B7.6	B8.3	C1.0	C1.9	B7.3	C1.0	C1.6
14	C1.6	C1.3	B8.0	B4.6	B6.3	C1.0	B8.6	C1.1	C1.3	B6.2	C1.1	C1.8
15	C1.6	C1.9	B8.5	B4.3	B6.6	B7.9	C1.4	C1.1	C1.0	B6.7	C1.2	C1.8
16	C1.3	C1.4	B6.9	B4.6	B9.4	B7.4	C1.2	C1.2	B9.1	B7.9	---	C2.3
17	C1.2	C1.4	B5.9	B6.2	C1.2	B9.3	C1.0	C1.5	B7.6	B9.2	C2.3	C2.7
18	C1.7	C1.6	B4.9	B9.5	C1.7	B8.5	C1.2	C1.2	C1.3	C1.2	C2.7	C3.3
19	C1.3	C2.4	B4.8	B4.7	C1.6	B9.3	C1.6	C1.0	C1.6	C1.6	C2.4	C2.5
20	C1.6	C1.8	B5.2	B4.7	C1.9	B8.1	C1.4	B7.5	C1.5	C1.6	C2.3	C2.1
21	C1.4	C1.6	B5.0	B5.8	C2.0	B9.0	C1.4	B8.3	C1.3	C1.5	C2.0	C2.0
22	C1.1	C1.4	B4.6	B6.2	C2.0	B7.9	B9.5	*	C1.3	C2.2	C1.6	C1.9
23	C1.1	C1.6	B4.2	B7.2	C2.2	B9.5	B6.7	B8.0	C1.3	C1.6	C1.5	C3.3
24	C1.0	C1.3	B5.8	B7.3	C2.1	B8.9	B5.6	B8.8	C1.7	C1.9	C1.5	C2.1
25	C1.1	C1.5	B6.0	C1.0	C1.5	B6.9	B6.7	C1.0	C1.2	C2.2	C1.5	C1.7
26	C1.3	C1.4	B5.2	B9.5	C1.8	B4.8	B5.0	B9.8	C1.1	C2.0	C1.2	C1.2
27	C1.0	B6.8	B9.4	B7.0	C1.7	B4.0	B6.4	C1.1	B9.2	C2.4	C1.1	C1.2
28	B5.7	B6.4	C1.3	B7.3	C2.2	B4.1	B4.5	C1.4	B7.9	C2.6	C1.1	C1.2
29	B3.8	B4.7	C1.3	B6.6	C1.5	B4.5	B7.3	C1.4	B8.4	C2.2		C1.6
30	B3.4	B5.5	C1.1	C1.0	C1.5	B4.8	B6.5	C1.1	B8.6	C2.8		C1.9
31		B4.5		B9.4	C1.0		B4.4		B7.8	C2.9		C1.8

MASS EJECTIONS FROM THE SUN

MARCH 1991

Site	Mo Day	Observed UT Start	Max	End	Location RA°	R/Ro	Freq or Wavelength	Kind of Event
LEAR	Mar 01	0455.0		0520.0			Meter	II
POTS	Mar 02	0735.2		0736.7			150-120 MHz	II?
SGMR	Mar 02	1400.0		1424.0			Meter	II
SVTO	Mar 02	1403.0		1422.0			Meter	II
CULG	Mar 03	0211.0		0227.0			Meter	II
VORO	Mar 03	0212	0227 U	0300 D	064	1	H-alpha	S
ONDR	Mar 04	1359.0		1404.0			Decimeter; meter	II
POTS	Mar 04	1359.5		1413.8			800- 50 MHz	II,IV Harmonic
SVTO	Mar 04	1403.0		1416.0			Meter	II
SGMR	Mar 04	1404.0		1412.0			Meter	II
SGMR	Mar 04	1926.0		1942.0			Meter	II
SGMR	Mar 04	1938.0		1948.0			Meter	II
PALE	Mar 04	1938.0		1948.0			Meter	II
KHAR	Mar 05	0838 E	0838 U	0903	246-248	0.94-0.97	H-alpha	S
KHAR	Mar 05	0838 E	0850 U	0900	110	1.00-1.02	H-alpha	S
KHAR	Mar 05	0906	0917	0945	107-112	0.97-1.12	H-alpha	SP
POTS	Mar 05	0940.9		0943.5			140- 40 MHz	II
KHAR	Mar 05	1030		1053	095	1.00-1.02	H-alpha	S
KHAR	Mar 05	1125 E		1143 D	075-076	1.00-1.03	H-alpha	S
POTS	Mar 06	0738.2		0746.4			700- 40 MHz	IV Reverse slope
POTS	Mar 07	0747.3		1500 U			800- 40 MHz	II,IV Harmonic
ABST	Mar 07	0755	0755 U	0756 D	108	1.00	H-alpha	SP
SVTO	Mar 07	0756.0		0801.0			Meter	II
LEAR	Mar 07	0756.0		0812.0			Meter	II
LEAR	Mar 07	0800.0		1031.0			Meter	IV
SVTO	Mar 07	0801.0		0813.0			Meter	IV
SGMR	Mar 07	1727.0		1730.0			Meter	II
PALE	Mar 07	1727.0		1732.0			Meter	II
ONDR	Mar 09	0842.3		0842.9			Decimeter	II
KHAR	Mar 09	1048 E	1050 U	1058 D	144-150	0.13-0.15	H-alpha	S
KHAR	Mar 10	1009 E		1028 D	102	1.00-1.02	H-alpha	S
ONDR	Mar 11	1152.0		1154.9			Decimeter; meter	II
POTS	Mar 12	1237.5		1257.1			800- 40 MHz	II,IV Harmonic
ONDR	Mar 12	1242.0		1249.0			Decimeter; meter	IV
SGMR	Mar 12	1245.0		1256.0			Meter	II
SGMR	Mar 12	1246.0		1257.0			Meter	II
CULG	Mar 13	0303.0		0306.0			Meter	II
LEAR	Mar 13	0310.0		0441.0			Meter	IV
POTS	Mar 13	0729.4		0800 U			800- 40 MHz	IV
LEAR	Mar 13	0736.0		1026.0			Meter	IV
POTS	Mar 13	0803.3		0826.5			800- 40 MHz	IV
ONDR	Mar 13	0803.5		0806.3			Decimeter; meter	IV
ONDR	Mar 14	1330.5		1332.0			Decimeter; meter	II U-shaped
SGMR	Mar 14	1812.0		1829.0			Meter	IV
SGMR	Mar 14	1849.0		1911.0			Meter	II
LEAR	Mar 16	0045.0		0953.0			Meter	IV
PALE	Mar 16	0046.0		0054.0			Meter	II
PALE	Mar 16	0046.0		0425.0			Meter	IV
LEAR	Mar 16	0051.0		0106.0			Meter	II
POTS	Mar 16	1047.9		1105.7			800- 40 MHz	II,IV Continuum
ONDR	Mar 16	1050.9		1105.0			Decimeter; meter	II
POTS	Mar 16	1239.1		1259.2			550- 40 MHz	II?,IV Pulsations
ONDR	Mar 17	1012.5		1037.0			Decimeter; meter	II
ONDR	Mar 17	1125.5		1137.2			Decimeter	IV
ONDR	Mar 17	1212.9		1218.5			Decimeter	IV
ONDR	Mar 17	1321.0		1338.0			Decimeter; meter	IV
POTS	Mar 17	1408.9		1425.7			800- 40 MHz	IV Pulsations

MASS EJECTIONS FROM THE SUN

MARCH 1991

Site	Mo	Day	Observed UT Start	Max	End	Location RA*	R/Ro	Freq or Wavelength	Kind of Event
KHAR	Mar	18	1053 E	1055 U	1112	132	1.00-1.04	H-alpha	S
POTS	Mar	18	1253.8		1259.4			800-400 MHz	IV Spikes
ONDR	Mar	18	1256.6		1300.5			Meter	IV
PALE	Mar	19	0123.0		0147.0			Meter	II
LEAR	Mar	19	0126.0		0144.0			Meter	II
LEAR	Mar	19	0144.0		0153.0			Meter	IV
PALE	Mar	20	0345.0		0349.0			Meter	II
LEAR	Mar	20	0340.0		0404.0			Meter	II
ABST	Mar	20	0843 E	0849 U	0858	090	1.05	H-alpha	S
ONDR	Mar	20	1044.8		1055.6			Decimeter; meter	IV Pulsations
ABST	Mar	21	0603 E	0610 U	0700 D	081	1.14	H-alpha	S
ABST	Mar	21	0603 E	0614 U	0712 D	085	1.12	H-alpha	S
ABST	Mar	21	0623	0634	0640	074	1.19	H-alpha	S
ONDR	Mar	21	1240.5		1242.0			Decimeter; meter	IV Pulsations
LEAR	Mar	21	2337.0		1018.0			Meter	IV
ABST	Mar	22	0656	0807	0829	066	1.10	H-alpha	S
POTS	Mar	22	0828.8		0850.3U			400- 40 MHz	II,IV Herringbone
ONDR	Mar	22	0836.2		0850.3			Decimeter; meter	IV
ONDR	Mar	22	0912.0		0917.0			Decimeter; meter	IV Pulsations
SGMR	Mar	22	1104.0		2236.0			Meter	IV
POTS	Mar	22	1146.1		1203.5			400- 40 MHz	II?,IV
LEAR	Mar	22	2247.0		2255.0			Meter	II
PALE	Mar	22	2249.0		2251.0			Meter	II
POTS	Mar	23	1227.0U		1247.0			800- 40 MHz	II?,IV Pulsations
ONDR	Mar	23	1229.0		1247.5			Decimeter; meter	IV
POTS	Mar	24	1006.1		1036.5			800- 40 MHz	IV
LEAR	Mar	25	0001.0		1015.0			Meter	IV
ONDR	Mar	25	0702.0		0703.1			Meter	II
POTS	Mar	25	0802.2		0823 U			800- 40 MHz	IV Pulsations
WEIS	Mar	25	0807.7		0811.4			160- 50 MHz	II Herringbone
ONDR	Mar	25	0808.8		0813.0			Decimeter; meter	IV
SVTO	Mar	25	0809.0		0811.0			Meter	II
ABST	Mar	25	0817	0822 U	0902	035	1.15	H-alpha	S
WEIS	Mar	25	1111.6		1112.6			54- 46 MHz	II Herringbone
ABST	Mar	26	0832 E	0838 U	0849 D	055	1.23	H-alpha	S
POTS	Mar	29	0641.8		0701.1			800- 40 MHz	II,IV Harmonic
WEIS	Mar	29	0647.3		0656.4			290- 48 MHz	II Herringbone
LEAR	Mar	29	0649.0		0700.0			Meter	II
SVTO	Mar	29	0649.0		0701.0			Meter	II
POTS	Mar	30	0902.5		0926.2			400-100 Mhz	IV
POTS	Mar	31	1123.9		1235 U			400-100 MHz	IV?
SGMR	Mar	31	1941.0		2017.0			Meter	II
PALE	Mar	31	1941.0		2019.0			Meter	II

QUALIFIERS ON START, MAX AND END TIMES
- D = event ended after tabulated time
- 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
- ABST = Abastumani
- CULG = Culgoora
- KHAR = Kharkov
- LEAR = Learmonth
- ONDR = Ondrejov
- PALE = Palehua
- POTS = Potsdam
- SGMR = Sagamore Hill
- SVTO = San Vito
- VORO = Voroshilov
- WEIS = Weissenau

ACTIVE PROMINENCES AND FILAMENTS

MARCH 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	AFS	0009E	0331D	N04	E12	03	1.9		03	9	9	E	PALE	6523	
01	AFS	0032E	0331D	S22	W57	02	24.7		03	9	9	E	PALE	6509	
01	ADF	0103E	0254D	N21	E50	03	4.9	1				C	VORO		
01	ADF	0105E	0254D	N33	E01	03	1.1	1				C	VORO		
01	APR	0217	0255D	S16	W90	02	22.4	1				C	VORO		
01	SSB	0935		250	W19	03	5.2			0	0	E	SVTO		
01	ASR	1000E	1504D	S17	W90	02	22.7			7	9	E	SVTO	5604	
01	SDF	1037E	2243D	S01	W22	02	27.9		14	0	0	E	LEAR		
01	APR	1112E	1504D	S36	W90	02	22.3	1		9	9	E	SVTO		
01	ADF	1116E	2142D	S28	W63	02	24.6	1	11	9	9	E	RAMY	6509	
01	SSB	1123		230	W00	03	3.7			0	0	E	RAMY		277 W47
01	AFS	1239E	1504D	S15	E30	03	3.8		01	9	9	E	SVTO		
01	SDF	1504E	0653D	S38	E59	03	6.4		18	0	0	E	SVTO		
01	AFS	1915E	0317D	N04	E02	03	1.9		02	9	9	E	PALE	6523	
01	AFS	1915E	0317D	N09	E01	03	1.9		01	9	9	E	PALE		
01	AFS	1915E	0317D	S07	W32	02	27.5		01	9	9	E	PALE	6516	
01	AFS	1915E	0317D	S10	W48	02	26.3		02	9	9	E	PALE	6521	
01	ADF	1915E	0317D	S12	W24	02	28.0		03	9	9	E	PALE	6524	
01	AFS	1915E	0317D	S14	W23	02	28.1		03	9	9	E	PALE	6524	
01	ADF	1915E	0317D	S15	W65	02	25.0		12	9	9	E	PALE	6508	
01	AFS	1915E	0317D	S21	W66	02	24.8		03	9	9	E	PALE	6509	
01	DSD	2129E	0317D	S15	W66	02	25.0		03	9	9	E	PALE	6508	
01	ADF	2158E	2200D	N18	W50	02	26.2		06	9	9	E	PALE	6514	
01	ADF	2305E	0258D	N21	E36	03	4.7	1				C	VORO		
01	ADF	2305E	0258D	N40	W09	03	1.2	1				C	VORO		
01	APR	2327E	0300D	S39	W90	02	22.8	1				C	VORO		
01	DSD	2340E	1037D	S17	W65	02	25.1		02	9	9	E	LEAR	6508	
01	AFS	2341E	1037D	N03	E00	03	2.0		02	9	9	E	LEAR	6523	
01	ADF	2342E	1037D	S10	W31	02	27.7	1	03	9	9	E	LEAR	6516	
02	EPL	0225E	0251D	N25	E90	03	9.1			9	9	E	LEAR		
02	APR	0956E	1016D	S13	E87	03	9.0	2		9	9	E	SVTO		
02	APR	1008E	1016D	S30	W87	02	23.7	1		9	9	E	SVTO		
02	SSB	1009		272	W55	03	8.6			0	0	E	SVTO		232 W15
02	SDF	1016E	1302D	S14	W14	03	1.4		10	0	0	E	SVTO		
02	AFS	1110E	2138D	N02	W06	03	2.0		02	9	9	E	RAMY	6523	
02	ADF	1113E	2138D	S28	W57	02	26.1	1	08	9	9	E	RAMY		
02	ADF	1115	1755D	S19	W75	02	24.8	1	07	9	9	E	RAMY	6509	
02	SSB	1123		229	W12	03	4.6			0	0	E	RAMY		262 W45 456 W77
02	ASR	1350E	1408D	S16	W90	02	23.8			9	9	E	RAMY	6509	
02	SDF	1452E	1440D	N25	E07	03	3.2		10	0	0	E	HOLL		
02	SDF	1452E	1440D	S30	E68	03	8.0		14	0	0	E	HOLL		
02	ASR	1540E	0040D	S19	W90	02	23.9			9	9	E	HOLL	6509	
02	ADF	1544E	0040D	N17	W59	02	26.3	1	09	9	9	E	HOLL	6514	
02	APR	1755E	2115D	S16	W86	02	24.3	2		9	9	E	RAMY	6509	
02	SSB	1851		232	W20	03	5.2			0	0	E	HOLL		274 W62
02	ASR	1851E	2138D	S13	W80	02	24.8			9	9	E	RAMY	6508	
02	BSD	2035E	0418D	S11	W77	02	25.2		05	8	8	E	PALE	6508	
02	AFS	2222E	0418D	N04	W14	03	1.9		04	9	9	E	PALE	6523	
02	AFS	2222E	0418D	S16	E57	03	7.2		02	8	8	E	PALE		
02	AFS	2225E	0418D	S24	W10	03	2.2		02	9	9	E	PALE		
02	AFS	2227E	0418D	S30	W16	03	1.7		01	9	9	E	PALE		
02	AFS	2229E	0418D	S06	W48	02	27.4		02	9	9	E	PALE	6516	
02	AFS	2233E	0418D	N28	W63	02	26.1		01	9	9	E	PALE	6522	
02	BSL	2317E	0003	S11	W80	02	25.0	1				V	VORO		
02	ADF	2317E	0259D	N46	W16	03	1.6	1				C	VORO		
02	APR	2346E	0300D	N11	E90	03	9.8	1				C	VORO		
03	BSL	0000	0020	S03	W90	02	24.4	1				C	VORO		
03	BSD	0007	0024	S11	W80	02	25.1	1				C	VORO		
03	BSL	0010	0030	N20	E90	03	9.9	1				C	VORO		
03	ASR	0024E	0418D	S17	W83	02	24.8			9	9	E	PALE	6509	
03	EPL	0033E	0040D	N43	W90	02	23.7	1		9	9	E	HOLL		
03	BSL	0130	0215	S36	E90	03	10.3	2				C	VORO		
03	EPL	0158E	0231D	S25	E90	03	10.0			9	9	E	LEAR		
03	BSL	0212	0300D	N25	E90	03	10.1	3+				C	VORO		
03	EPL	0220E	2221D	N26	E90	03	10.1			9	9	E	PALE		
03	EPL	0225E	0251D	N25	E90	03	10.1			9	9	E	LEAR		
03	SSB	1125		230	W27	03	5.8			0	0	E	RAMY		258 W55 271 W68
03	DSD	1127E	1653D	N02	W22	03	1.8		03	9	9	E	RAMY	6523	

ACTIVE PROMINENCES AND FILAMENTS

MARCH 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
03	AFS	1127E	2142D	N03	W21	03	1.9		02	9	9	E	RAMY	6523	
03	ASR	1137E	2142D	S13	W88	02	24.9			9	9	E	RAMY	6508	
03	APR	1138E	1947D	S22	W87	02	24.9	2		9	9	E	RAMY	6509	
03	DSD	1250E	2142D	N11	E70	03	8.8		03	9	9	E	RAMY	6532	
03	SDF	1302E	0553D	N47	W31	02	28.9		22	0	0	E	SVTO		
03	DSD	1303E	1414D	N04	W18	03	2.2		07	9	9	E	RAMY	6523	
03	AFS	1352E	2142D	N07	W20	03	2.1		02	9	9	E	RAMY	6529	
03	ASR	1415E	1458D	S22	W90	02	24.8			8	9	E	HOLL	6509	Flare Associated
03	ASR	1418E	1703D	S21	W88	02	24.9			9	9	E	RAMY	6509	Flare Associated
03	ASR	1428E	0056D	S12	W90	02	24.9			9	9	E	HOLL	6508	
03	SDF	1435E	1905D	N45	W45	02	28.0		08	0	0	E	HOLL		
03	SDF	1438E	1901D	N49	W27	03	1.3		10	0	0	E	HOLL		
03	AFS	1440E	0056D	N03	W23	03	1.9		03	9	9	E	HOLL	6523	
03	DSD	1440E	1840D	N03	W19	03	2.2		02	9	9	E	HOLL	6523	
03	ASR	1514E	0056D	S22	W90	02	24.8			8	8	E	HOLL	6509	
03	SSB	1524		223	W23	03	5.4			0	0	E	HOLL		271 W71
03	DSD	1538E	1720D	N02	W24	03	1.8		02	9	9	E	HOLL	6523	
03	DSD	1550	1647D	N11	E60	03	8.2		12	9	9	E	RAMY	6530	Flare Associated
03	DSD	1603E	1623D	N11	E60	03	8.2		10	9	9	E	HOLL	6530	Flare Associated
03	ASR	1722E	0315D	S21	W90	02	24.9			9	9	E	PALE	6509	
03	AFS	1722E	0424D	S03	W26	03	1.8		03	9	9	E	PALE	6523	
03	ASR	1722E	1805D	N12	E90	03	10.5			9	9	E	PALE		
03	ASR	1723E	1829D	N17	E90	03	10.6			9	9	E	RAMY		
03	APR	1727E	1819D	N17	E90	03	10.6	1		9	9	E	HOLL		
03	AFS	1840E	0056D	N07	W23	03	2.0		02	9	9	E	HOLL	6529	
03	ASR	1946E	2116D	S23	W90	02	25.0			9	9	E	RAMY	6509	
03	ASR	2010E	0424D	S12	W90	02	25.1			9	9	E	PALE	6508	
03	AFS	2040E	0056D	S03	W39	02	28.9		01	9	9	E	HOLL		
03	ASR	2053E	2142D	S30	E90	03	10.9			9	9	E	RAMY		
03	ASR	2058E	0056D	S29	E90	03	10.9			9	9	E	HOLL		
03	AFS	2115E	2142D	S03	W38	03	1.0		02	9	9	E	RAMY		
03	ASR	2125E	2142D	S28	W90	02	24.9			9	9	E	RAMY	6509	
03	AFS	2140E	0424D	S03	W39	03	1.0		02	9	9	E	PALE		
03	SSB	2147		232	W35	03	6.5			0	0	E	PALE		257 W60
03	AFS	2230E	0424D	N08	W24	03	2.1		02	9	9	E	PALE	6529	
03	EPL	2232E	2315D	S23	E90	03	10.9			9	7	E	PALE		
04	ASR	0305E	0424D	S29	E90	03	11.2			9	9	E	PALE		
04	AFS	0338E	0424D	S05	W60	02	27.8		03	9	9	E	PALE		
04	ASR	0710E	1616D	S09	E90	03	11.0			9	9	E	SVTO		
04	ASR	0711E	1616D	S22	E90	03	11.2			9	9	E	SVTO		
04	APR	0712E	1616D	S37	W90	02	25.1	1		8	9	E	SVTO		
04	ASR	0713E	1616D	N18	E88	03	11.0			9	9	E	SVTO		
04	AFS	0714E	1616D	S25	W26	03	2.3		02	9	8	E	SVTO	6531	
04	AFS	0715E	1616D	S23	W62	02	27.6	1	03	9	9	E	SVTO		
04	ASR	0804E	1616D	S15	W90	02	25.6			9	9	E	SVTO	6508	
04	ASR	0840E	1031D	S11	E85	03	10.7			9	9	E	LEAR		
04	ADF	0840E	1031D	S21	W63	02	27.6	1	02	9	9	E	LEAR		
04	ADF	1023E	1120D	S24	W77	02	26.6	1				V	KHAR		
04	AFS	1301E	1616D	S16	E36	03	7.3		02	9	9	E	SVTO		
04	ADF	1405E	1616D	S18	W41	03	1.5	1	13	9	9	E	SVTO		
04	ADF	1408E	1921D	S26	W44	03	1.2	2	10	9	9	E	HOLL		
04	APR	1446E	1621D	N16	E90	03	11.4	1		9	9	E	HOLL		
04	ASR	1514E	2202D	S09	E90	03	11.4			9	9	E	HOLL		
04	BSL	1554E	1645D	N20	E70	03	10.0			9	9	E	HOLL		
04	BSL	1556	1616D	N17	E70	03	10.0			9	9	E	SVTO		Flare Associated
04	DSD	1710E	0423D	N14	E57	03	9.0		05	9	9	E	PALE	6532	
04	AFS	1710E	0423D	S17	E31	03	7.1		02	9	9	E	PALE		
04	ASR	1715E	1752D	S28	E90	03	11.7			9	9	E	PALE		
04	LPS	1750E	2038D	S29	E90	03	11.8			9	9	E	PALE		
04	AFS	1755E	0423D	N08	W36	03	2.0		03	9	9	E	PALE	6529	
04	ASR	1803E	1815	S25	E90	03	11.7			9	9	E	PALE		
04	ASR	1808E	2011D	N16	E90	03	11.6			9	9	E	PALE		
04	BSL	1815E	1928D	S24	E90	03	11.7			9	9	E	HOLL		
04	BSL	1815	1853D	S25	E90	03	11.7			9	9	E	PALE		
04	ASR	1853E	0011D	S25	E90	03	11.7			9	9	E	PALE		
04	SDF	1935E	0255D	N55	W40	03	1.4		10	0	0	E	PALE		
04	APR	1946E	2159D	S18	E90	03	11.7	2		9	9	E	HOLL		
04	LPS	2002E	0423D	N14	E88	03	11.5			9	9	E	PALE	6536	
04	AFS	2007E	0423D	S22	W67	02	27.8		03	9	9	E	PALE	6533	

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
04	SSB	2020		240	W55	03	8.3			0	0	E	PALE		
04	LPS	2048E	2202D	N13	E88	03	11.5			9	9	E	RAMY	6536	
04	AFS	2052E	2202D	N04	W39	03	1.9		02	8	8	E	RAMY	6523	
04	ASR	2053	0423D	S09	W90	02	26.2			9	9	E	PALE	6528	
04	ASR	2053E	2130	S32	E90	03	12.0			9	9	E	RAMY		
04	ASR	2059E	2159D	S08	W90	02	26.2			9	9	E	HOLL	6528	
04	ASR	2102E	2202D	S11	W90	02	26.2			9	9	E	RAMY	6528	
04	AFS	2117E	2202D	S22	W67	02	27.8		03	9	9	E	RAMY	6533	
04	SSB	2121		228	W43	03	7.2			0	0	E	RAMY		241 W56 275 W90
04	BSL	2130	2202D	S32	E90	03	12.0			9	9	E	RAMY		
04	ASR	2132E	2202D	S24	E90	03	11.8			9	9	E	RAMY		
04	SSB	2205		231	W47	03	7.5			0	0	E	HOLL		
05	BSL	0035E	0110D	S24	E90	03	12.0			9	9	E	LEAR		
05	ASR	0057E	0320D	S21	E90	03	11.9			9	9	E	PALE		
05	ASR	0110E	1035D	S23	E90	03	12.0			9	9	E	LEAR		
05	ASR	0110E	1035D	S25	E90	03	12.0			9	9	E	LEAR		
05	AFS	0112E	1035D	N07	W40	03	2.0		02	9	9	E	LEAR	6529	
05	AFS	0113E	1035D	S22	W72	02	27.6		02	9	9	E	LEAR	6533	
05	ASR	0114E	1035D	N19	E90	03	11.9			9	9	E	LEAR		
05	BSL	0315	0403D	S21	E90	03	12.0			9	9	E	LEAR		Flare Associated
05	BSL	0320E	0343D	S22	E90	03	12.0			9	9	E	PALE		Flare Associated
05	ASR	0343E	0423D	S18	E90	03	12.0			9	9	E	PALE		
05	ASR	0615E	0644D	S21	E90	03	12.2			9	9	E	SVTO		
05	AFS	0621E	1615D	S23	W75	02	27.6		02	9	9	E	SVTO	6533	
05	BSL	0635E	0714D	S21	E90	03	12.2			9	9	E	LEAR		
05	BSL	0644E	0715D	S20	E90	03	12.2			9	9	E	SVTO		
05	ASR	0704E	1615D	N20	E90	03	12.2			9	9	E	SVTO		
05	ASR	0715E	1615D	S21	E90	03	12.2			9	9	E	SVTO		
05	AFS	0756E	1244D	N07	W44	03	2.0		02	9	9	E	SVTO	6529	
05	DSD	0809E	1245D	S23	W75	02	27.7		03	9	9	E	SVTO	6533	
05	BSL	0838E	0900	S20	E90	03	12.2	1				V	KHAR		
05	DSD	0838E	0903	S23	W78	02	27.4	1				V	KHAR		
05	ASR	0901E	1418D	N26	E90	03	12.4			9	9	E	SVTO		
05	BSL	0906	0945	S21	E90	03	12.3	2				V	KHAR		
05	APR	0925E	0935D	S03	E30	03	7.6					C	ATHN		
05	BSL	0925	0944D	S21	E90	03	12.3			9	9	E	LEAR		Flare Associated
05	BSL	0926E	0949D	S19	E90	03	12.3			9	9	E	SVTO		Flare Associated
05	BSL	1030	1047D	S05	E90	03	12.2	1				V	KHAR		
05	ADF	1118E	2123D	N11	E52	03	9.4	1	08	9	9	E	RAMY	6532	
05	ASR	1120E	1917D	N10	E90	03	12.2			9	9	E	RAMY		
05	ASR	1122E	1652D	S23	E90	03	12.4			9	9	E	RAMY		
05	BSL	1125E	1145D	N14	E90	03	12.3	1				V	KHAR		
05	ASR	1135E	1615D	N14	E90	03	12.3			9	9	E	SVTO		
05	SSB	1200		225	W49	03	7.6			0	0	E	RAMY		239 W63
05	LPS	1205E	1515D	S22	E90	03	12.4			9	9	E	RAMY		
05	ASR	1405E	2136D	N13	E90	03	12.4			9	9	E	HOLL		
05	ASR	1405E	2351D	S23	E90	03	12.5			9	9	E	HOLL	6538	
05	AFS	1542E	2351D	S09	E80	03	11.6		02	8	7	E	HOLL	6537	
05	AFS	1547E	2351D	N20	E50	03	9.5		02	9	9	E	HOLL		
05	AFS	1551E	2351D	S21	W77	02	27.8		02	9	9	E	HOLL	6533	
05	SSB	1610		231	W57	03	8.4			0	0	E	HOLL		
05	BSL	1736E	1756D	S10	E73	03	11.2			9	9	E	HOLL	6537	Flare Associated
05	BSL	1740E	1756D	S12	W75	02	28.1			9	9	E	RAMY	6537	
05	SSB	1759		229	W56	03	8.3			0	0	E	RAMY		
05	SSB	1813		226	W55	03	8.0			0	0	E	PALE		
05	APR	1841E	2351D	S14	E90	03	12.6	1		9	9	E	HOLL	6538	
05	ASR	1848E	0335D	S18	E90	03	12.6			9	9	E	PALE	6838	
05	ADF	2014E	0335D	N00	W64	03	1.1		09	9	8	E	PALE	6534	
05	ADF	2014E	0335D	N13	E43	03	9.1	1	07	9	9	E	PALE	6532	
05	ADF	2014E	0335D	N20	E79	03	11.9	1	11	9	9	E	PALE	6536	
05	ADF	2014E	0335D	N21	E61	03	10.5	1	17	9	9	E	PALE	6539	
05	DSD	2014E	0335D	S22	W77	02	28.0		04	9	9	E	PALE	6533	
05	ASR	2335E	1030D	S23	E90	03	12.9			9	9	E	LEAR	6538	
05	ASR	2335E	1030D	S26	E90	03	13.0			9	9	E	LEAR	6538	
05	AFS	2336E	1030D	N04	W57	03	1.7		02	9	9	E	LEAR	6523	
05	ADF	2340E	1030D	N16	E71	03	11.4	1	05	9	9	E	LEAR	6536	
06	APR	1045E	1150D	S24	E90	03	13.4					C	ATHN		
06	ASR	1103E	1117D	S22	E75	03	12.2			9	9	E	RAMY	6538	

ACTIVE PROMINENCES AND FILAMENTS

MARCH 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
06	ADF	1107E	2200D	N11	E36	03	9.2	1	05	9	9	E	RAMY	6532	
06	ADF	1109E	1711D	N12	E62	03	11.1	1	05	9	9	E	RAMY	6536	
06	LPS	1117E	1253D	S22	E75	03	12.2			9	9	E	RAMY	6538	
06	DSD	1124E	1352D	N02	W65	03	1.6		03	9	9	E	RAMY	6523	
06	SSB	1127		239	W75	03	10.1			0	0	E	RAMY		
06	ADF	1132E	1508D	N15	E62	03	11.2	1	08	6	7	E	SVTO	6536	
06	ASR	1209E	1253D	S23	E84	03	13.0			9	9	E	RAMY	6538	
06	ASR	1209E	1923D	S29	E90	03	13.6			9	9	E	RAMY		
06	ASR	1327E	1512D	S12	E90	03	13.3			9	9	E	RAMY		
06	AFS	1349E	1512D	N14	E73	03	12.1		03	9	9	E	RAMY		
06	ASR	1445E	1512D	S07	W90	02	28.0			9	9	E	RAMY	6524	
06	ASR	1529E	1925D	S20	W90	02	27.9			9	9	E	RAMY	6533	
06	ASR	1552E	1707D	S12	W90	02	28.0			9	9	E	RAMY	6526	
06	ASR	1707E	2013D	S13	E90	03	13.5			9	9	E	RAMY		
06	SSB	1804		173	W63	03	13.2			0	0	E	PALE		232 W04
06	ASR	1853E	0007D	S28	E90	03	13.8			8	8	E	PALE		
06	ADF	1908E	0007D	N12	E35	03	9.4	1	08	9	9	E	PALE	6532	
06	ADF	1908E	0007D	N18	E39	03	9.8	1	08	9	9	E	PALE	6532	
06	DSD	1927E	2016D	S10	E53	03	10.8		03	9	9	E	RAMY	6537	
06	DSD	1932E	0007D	N19	E58	03	11.2		03	9	9	E	PALE	6536	
06	ADF	2010E	0007D	N20	E43	03	10.1	1	04	9	9	E	PALE	6539	
06	DSD	2010E	0007D	S06	E56	03	11.0		02	9	9	E	PALE	6537	
06	ADF	2010E	0007D	S08	E58	03	11.2		04	9	9	E	PALE	6537	
06	DSD	2010E	0007D	S21	E71	03	12.3		03	9	9	E	PALE	6538	
06	SSB	2245		236	W78	03	10.3			0	0	E	HOLL		
06	BSD	2310E	0530D	S24	E69	03	12.3		05	9	9	E	LEAR	6538	Flare Associated
06	ASR	2345E	1029D	S25	E90	03	14.0			4	9	E	LEAR		
06	APR	2346E	0300D	S41	W90	02	27.7	1				C	VORO		
06	ADF	2348E	0258D	S23	W53	03	2.9	1				C	VORO		
06	ADF	2348E	0258D	S26	W23	03	5.2	1				C	VORO		
07	APR	0045	0300D	S40	E90	03	14.4	1				C	VORO		
07	AFS	0533E	1029D	S06	E59	03	11.6		02	9	9	E	LEAR	6537	
07	DSD	0534E	1029D	S23	E65	03	12.2		10	9	9	E	LEAR	6538	
07	AFS	0535E	1029D	N19	E17	03	8.5		01	9	9	E	LEAR		
07	BSD	0710	0721	S21	E67	03	12.4		08	9	9	E	LEAR	6538	Flare Associated
07	BSD	0721	0853D	S21	E67	03	12.4		58	9	9	E	LEAR	6538	Flare Associated
07	BSL	0755	0758D	S18	E90	03	14.2	1				C	ABST		
07	DSD	0931E	1029D	S08	E48	03	11.0		06	9	9	E	LEAR	6537	Flare Associated
07	AFS	1104E	2143D	N18	E34	03	10.0		02	9	9	E	RAMY	6539	
07	ADF	1112E	2143D	S18	E59	03	11.9	1	17	9	9	E	RAMY	6537	
07	SSB	1132		161	W11	03	12.1			0	0	E	RAMY		223 W73
07	BSL	1253E	1359D	S22	W90	02	28.6			9	9	E	RAMY	6533	
07	ASR	1350E	1539D	S23	W88	02	28.8			9	9	E	HOLL	6533	
07	APR	1401E	1951D	S31	E90	03	14.7	1		9	9	E	HOLL		
07	BSD	1411E	1539D	S21	E61	03	12.3		14	9	9	E	HOLL		
07	LPS	1428E	2342D	S26	E71	03	13.1	1		9	9	E	HOLL	6538	
07	APR	1505E	1539D	S23	W90	02	28.7	1		9	9	E	HOLL	6533	
07	BSL	1516	1538D	S29	W90	02	28.6			9	9	E	HOLL	6533	
07	EPL	1518	1653D	S39	W90	02	28.3	1		9	9	E	RAMY		
07	EPL	1536E	1539D	S40	W90	02	28.3	2		9	9	E	HOLL		
07	AFS	1820E	0030D	N18	E11	03	8.6		03	9	9	E	HOLL	6541	
07	AFS	1820E	0030D	S14	W42	03	4.6		02	9	9	E	HOLL		
07	ASR	1941E	0030D	N01	W88	03	1.2			9	9	E	HOLL	6523	
07	SSB	2009		171	W25	03	13.3			0	0	E	HOLL		
07	DSD	2224E	0250D	N21	E59	03	12.4		44	9	9	E	PALE	6538	
07	ADF	2235E	0420D	N20	E48	03	11.6		10	9	9	E	PALE	6536	
07	AFS	2235E	0420D	N21	E59	03	12.5		03	9	9	E	PALE	6540	
07	ADF	2235E	0420D	S27	E64	03	12.9		13	9	9	E	PALE	6538	
07	SSB	2248		161	W17	03	12.6			0	0	E	PALE		
07	AFS	2252	0030D						02	9	9	E	HOLL	6532	
07	AFS	2315E	0420D	N12	E10	03	8.7		02	9	9	E	PALE		
07	AFS	2315E	0420D	N19	E09	03	8.6		02	9	9	E	PALE	6541	
07	ASR	2335E	0420D	N07	W88	03	1.4			9	9	E	PALE	6529	
07	DSD	2355E	0420D	N12	E11	03	8.8		03	9	9	E	PALE	6532	
08	ASR	0135E	0848D	N04	W89	03	1.4			9	9	E	LEAR	6823	
08	LPS	0243E	0420D	S25	E62	03	12.9			9	9	E	PALE	6538	Flare Associated
08	DSD	0258E	1018D	S22	E62	03	12.9		08	9	9	E	LEAR	6538	
08	DSD	0620E	1018D	S15	E48	03	11.9		07	9	9	E	LEAR	6537	

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
08	DSD	0845E	1018D	N12	E12	03	9.3		06	9	9	E	LEAR	6532	
08	AFS	1103E	2033D	N16	E01	03	8.5		02	9	9	E	RAMY	6541	
08	ADF	1105E	2033D	S38	E60	03	13.3	1	17	9	9	E	RAMY	6538	
08	ASR	1115E	1523D	N04	W90	03	1.7			9	9	E	RAMY	6523	
08	SSB	1123		140	W03	03	11.5			0	0	E	RAMY		
08	ASR	1315E	1541D	S13	E90	03	15.3			9	9	E	RAMY		
08	EPL	1426E	1442D	S10	E90	03	15.4			9	9	E	HOLL		
08	DSD	1625E	1654D	S25	E62	03	13.5		08	9	9	E	HOLL	6538	Flare Associated
08	BSD	1730E	2129D	S26	E63	03	13.6		04	9	9	E	HOLL	6538	
08	DSD	1838E	2326D	S24	E57	03	13.2		16	9	9	E	HOLL	6538	
08	DSD	1920	2037D	S24	E45	03	12.3		04	9	9	E	HOLL	6538	Flare Associated
08	EPL	1937E	2016D	S10	E90	03	15.6			9	9	E	HOLL		
08	APR	2016E	0101D	S10	E90	03	15.6			9	9	E	HOLL		
08	ADF	2019E	2223D	S28	E51	03	12.8	1	12	9	9	E	HOLL	6538	Flare Associated
08	LPS	2035	2105D	S22	E44	03	12.2			9	9	E	HOLL	6538	Flare Associated
08	DSD	2037E	2115	S23	E44	03	12.2		20	9	9	E	HOLL	6538	Flare Associated
08	AFS	2210E	0101D	S18	E47	03	12.5		02	8	8	E	HOLL	6538	
08	SSB	2220		138	W07	03	11.8			0	0	E	HOLL		175 W44
09	ASR	0040	0101D	S10	E90	03	15.8			9	9	E	HOLL		
09	EPL	0200E	0305D	S13	E90	03	15.9			9	9	E	LEAR		
09	BSL	0203E	0307D	S15	E90	03	15.9			9	9	E	PALE		
09	DSD	0210E	0346D	N14	E25	03	11.0		03	9	9	E	PALE	6539	
09	AFS	0210E	0346D	S25	E45	03	12.6		02	9	9	E	PALE	6538	
09	DSD	0245E	0740D	S28	E47	03	12.8		02	9	9	E	LEAR	6538	
09	DSD	0307E	0346D	S10	E22	03	10.8		02	9	9	E	PALE	6537	Flare Associated
09	DSD	0310E	0346D	S24	E52	03	13.1		03	9	9	E	PALE	6538	
09	SSB	0326		141	W13	03	12.2			0	0	E	PALE		162 W34
09	DSD	0655E	0740D	S15	E35	03	11.9		03	9	9	E	LEAR	6537	
09	ADF	0900E	0928D	S37	E53	03	13.6	1				V	KHAR		
09	DSD	1048E	1058	S13	E04	03	9.7	1				V	KHAR		
09	ADF	1100E	1908D	S11	E26	03	11.4	1	08	9	9	E	RAMY	6537	
09	ADF	1108E	1503D	N38	E38	03	12.5	2	17	9	9	E	RAMY		
09	ASR	1117E	1125D	S12	E90	03	16.2			9	9	E	RAMY		
09	SSB	1124		163	W39	03	14.6			0	0	E	RAMY		
09	ADF	1350E	2214D	S15	E33	03	12.1	1	15	9	9	E	HOLL	6537	
09	AFS	1359E	2246D	S23	E34	03	12.2		03	9	9	E	HOLL	6538	
09	ADF	1400E	2246D	S24	E41	03	12.7	1	20	9	9	E	HOLL	6538	
09	DSD	1421E	1621D	S23	E34	03	12.2		07	9	9	E	RAMY	6538	Flare Associated
09	DSD	1422E	1925D	S22	E33	03	12.1		12	9	9	E	HOLL	6538	Flare Associated
09	AFS	1458E	1821D	S14	W66	03	4.6		01	9	9	E	HOLL		
09	SSB	1539		162	W40	03	14.7			0	0	E	HOLL		
09	DSD	1908E	2339D	N17	E23	03	11.5		05	9	9	E	PALE	6536	Flare Associated
09	DSD	1915E	1935D	N16	E22	03	11.5		05	9	9	E	HOLL	6536	Flare Associated
09	ASR	1918E	2339D	S12	E90	03	16.6			9	9	E	PALE		
09	APR	1920E	2339D	S10	E90	03	16.6			9	9	E	PALE		
09	AFS	1924E	2339D	S08	E20	03	11.3		03	9	9	E	PALE	6537	
09	AFS	1924E	2339D	S32	W02	03	9.6		03	9	9	E	PALE	6544	
09	APR	2148E	2246D	S07	E90	03	16.6	2		9	9	E	HOLL		
09	AFS	2214E	2246D	S08	E19	03	11.3		02	9	9	E	HOLL	6537	
09	LPS	2224E	2339D	S07	E90	03	16.7			9	9	E	PALE		
09	SSB	2305		140	W22	03	13.0			0	0	E	PALE		162 W44
09	DSD	2330E	2339D	S21	E25	03	11.9		03	9	9	E	PALE	6538	
09	LPS	2348E	0851D	S08	E90	03	16.7			9	9	E	LEAR		
10	AFS	0026E	0851D	S07	E17	03	11.3		03	9	9	E	LEAR	6537	
10	AFS	0028E	0851D	S34	W04	03	9.7		02	9	9	E	LEAR	6544	
10	ADF	0028E	0135D	N37	E21	03	11.7	1				C	VORO		
10	ADF	0028E	0135D	S01	E49	03	13.7	1				C	VORO		
10	ADF	0028E	0135D	S40	E19	03	11.6	1				C	VORO		
10	ADF	0900E	1010D	S08	E34	03	12.9	1				V	KHAR		
10	AFS	0902E	0921D	S08	E13	03	11.3		02	9	9	E	SVTO	6537	
10	ADF	0918E	0921D	S26	E32	03	12.9	1	10	9	9	E	SVTO	6538	
10	SDF	0921E	0850D	S07	E38	03	13.2		28	0	0	E	SVTO		
10	BSL	1009E	1028D	S12	E90	03	17.2	1				V	KHAR		
10	AFS	1057E	2145D	S08	E12	03	11.3		03	9	9	E	RAMY	6537	
10	ADF	1057E	2145D	S11	E13	03	11.4	1	09	9	9	E	RAMY	6537	
10	SSB	1115		163	W52	03	15.8			0	0	E	RAMY		
10	DSD	1427E	2252D	S25	E36	03	13.4		04	9	9	E	HOLL	6538	
10	AFS	1428E	2252D	S22	E21	03	12.2		03	9	9	E	HOLL	6538	

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	ADF	1429E	2252D	S20	E25	03	12.5	1	18	9	9	E	HOLL	6538	
10	ADF	1447E	2111D	N15	E12	03	11.5	1	08	9	9	E	HOLL	6536	
10	CAP	1508E	2122D	S09	E90	03	17.4	1	02	9	9	E	HOLL		
10	SSB	1510		164	W55	03	16.1			0	0	E	HOLL		
10	AFS	1518E	2120D	S11	E04	03	10.9		02	9	9	E	HOLL	6537	
10	DSD	1531	1555D	N18	W29	03	8.4		03	9	9	E	RAMY	6541	Flare Associated
10	DSD	1626E	2120D	S10	E02	03	10.8		03	9	9	E	HOLL	6537	
10	DSD	1759	2130D	N13	E03	03	11.0		04	9	9	E	RAMY	6536	
10	ADF	1920E	0322D	N18	E11	03	11.6		10	9	9	E	PALE	6536	
10	AFS	1921E	0322D	S11	E02	03	10.9		03	9	9	E	PALE	6537	
10	ADF	1923E	0322D	S10	E06	03	11.2		12	9	9	E	PALE	6537	
10	ADF	1926E	0322D	S30	E27	03	12.9		06	9	9	E	PALE	6538	
10	AFS	1927E	0322D	S22	E25	03	12.7		02	9	9	E	PALE	6538	
10	AFS	1928E	0322D	S25	E31	03	13.2		03	9	9	E	PALE	6538	
10	AFS	1936E	0322D	S10	W03	03	10.6		02	8	8	E	PALE		
11	ADF	0117E	1028D	S27	E21	03	12.7	1	11	9	9	E	LEAR	6538	
11	LPS	0910E	1313D	S09	E68	03	16.5			9	9	E	SVTO	6545	
11	DSD	0915E	1014D	S27	E16	03	12.6		09	9	9	E	SVTO	6538	Flare Associated
11	SDF	1035E	0656D	N31	W14	03	10.3		20	0	0	E	SVTO		
11	DSD	1045E	1400D	S05	E73	03	16.9		11	9	9	E	SVTO	6545	Flare Associated
11	ADF	1436E	1557D	S24	E16	03	12.8	1	12	9	9	E	SVTO	6538	
11	SSB	1500		104	W09	03	11.9			0	0	E	SVTO		
11	ADF	1825E	0346D	N19	W09	03	11.1	1	03	9	9	E	PALE	6536	
11	SSB	1935		104	W11	03	12.1			0	0	E	PALE		114 W69
11	AFS	2114E	2203D	S24	E80	03	18.1		02	9	9	E	RAMY	6546	
11	DSD	2116E	2203D	N08	E65	03	16.7		05	9	9	E	RAMY	6545	
11	AFS	2116E	2203D	N11	E69	03	17.1		02	9	9	E	RAMY	6545	
11	ADF	2120E	2203D	S37	E17	03	13.2	1	15	9	9	E	RAMY	6538	
11	SSB	2126		102	W10	03	12.0			0	0	E	RAMY		144 W52
11	ADF	2306E	0026D	S09	W11	03	11.1	1	13	9	9	E	LEAR	6537	
12	AFS	0020E	0024D	S08	W08	03	11.4		03	9	9	E	HOLL	6537	
12	ADF	0020E	0024D	S26	E09	03	12.7	1	20	9	9	E	HOLL	6538	
12	ADF	0808E	1443D	S10	W16	03	11.1	1	09	9	9	E	SVTO	6537	
12	BSL	0850	0910D	N22	W90	03	5.4	1				C	ABST		
12	ADF	1126E	2206D	S11	W12	03	11.6	1	09	9	9	E	RAMY	6537	
12	AFS	1127E	1828D	S26	E09	03	13.2		02	9	9	E	RAMY	6538	
12	AFS	1127E	2036D	S20	E01	03	12.5		04	9	9	E	RAMY	6538	
12	ADF	1209E	1603D	N07	W03	03	12.3	2	07	9	9	E	RAMY	6540	
12	ADF	1216E	1913D	S10	E06	03	13.0	2	09	9	9	E	RAMY	6542	
12	APR	1407E	1602D	S02	E84	03	18.9	2		9	9	E	RAMY		
12	ADF	1408E	0058D	S15	W03	03	12.4	1	16	9	9	E	HOLL	6537	
12	DSD	1454	1841D	S09	E58	03	17.0		04	9	9	E	RAMY	6545	
12	DSD	1556E	1843D	S24	E71	03	18.1		03	9	9	E	RAMY	6546	
12	SSB	1726		434	W07	03	10.2			0	0	E	RAMY		447 W06 137 W56
12	ADF	2100E	2148D	N16	W40	03	9.8	1	12	9	9	E	PALE	6532	
12	ADF	2106E	2148D	N20	W25	03	11.0		10	9	9	E	PALE	6536	
12	ADF	2106E	2148D	S09	E00	03	12.9		12	8	9	E	PALE	6542	
12	ADF	2106E	2148D	S10	W22	03	11.2	1	11	9	9	E	PALE	6537	
12	DSD	2106E	2148D	S11	E53	03	16.9		02	9	8	E	PALE	6545	
12	ADF	2106E	2148D	S28	W03	03	12.6	1	12	9	9	E	PALE	6538	
12	ADF	2117E	2148D	N12	W31	03	10.5		04	9	9	E	PALE		
12	ADF	2120E	2203D	S37	E17	03	14.2	1	15	9	9	E	RAMY	6538	
12	ADF	2301E	0320D	N33	E22	03	14.7	1				C	VORO		
12	ADF	2332E	0320D	S07	E30	03	15.2	1				C	VORO		
12	ADF	2332E	0320D	S40	W18	03	11.5	1				C	VORO		
13	DSD	0449E	1020D	S23	W13	03	12.2		03	9	9	E	LEAR	6538	
13	DSD	0828E	1020D	S07	E47	03	16.9		07	9	9	E	LEAR	6545	
13	AFS	1023E	1346D	S21	W19	03	12.0		04	9	9	E	SVTO	6538	
13	ADF	1112E	1346D	S36	W04	03	13.1	2	14	9	9	E	SVTO	6538	
13	SSB	1149		433	W02	03	11.0			0	0	E	SVTO		109 W36
13	AFS	1208E	2146D	S24	E65	03	18.5		02	9	9	E	RAMY	6546	
13	DSD	1209E	2146D	S08	E44	03	16.8		04	9	9	E	RAMY	6545	
13	AFS	1209E	2146D	S10	E47	03	17.0		02	9	9	E	RAMY	6545	
13	AFS	1212E	2146D	S23	W21	03	11.9		02	9	9	E	RAMY	6538	
13	AFS	1212E	2146D	S25	W02	03	13.3		02	9	9	E	RAMY	6538	
13	ADF	1212E	2146D	S30	W11	03	12.6	1	08	9	9	E	RAMY	6538	
13	ASR	1805E	0013D	S14	E90	03	20.5			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
13	AFS	1805E	0408D	S10	E44	03	17.0		03	9	9	E	PALE	6545	
13	SSB	1930		140	W73	03	17.5			0	0	E	PALE		432 W05
13	AFS	2050E	0408D	S20	E54	03	18.0		03	9	9	E	PALE	6546	
13	AFS	2050E	0408D	S21	W05	03	13.5		02	9	9	E	PALE	6538	
13	MDP	2313E	0408D	S20	E89	03	20.8			9	9	E	PALE		
14	DSD	0005E	0408D	S08	E39	03	16.9		04	9	9	E	PALE	6545	
14	ADF	0005E	0408D	S08	W37	03	11.2		13	9	9	E	PALE	6537	
14	ADF	0005E	0408D	S26	W17	03	12.7		16	9	9	E	PALE	6538	
14	ASR	0013E	1017D	S16	E90	03	20.8			9	9	E	LEAR		
14	ADF	0100E	0259D	N32	E04	03	14.3	1				C	VORO		
14	ADF	0100E	0259D	S19	E17	03	15.3	1				C	VORO		
14	BSL	0109	0126D	S25	E90	03	21.0	1				C	VORO		
14	ASR	0110E	0215D	S20	E90	03	20.9			9	9	E	PALE		
14	ASR	0302E	0408D	S11	E88	03	20.7			9	9	E	PALE		
14	AFS	0626E	1017D	S25	W21	03	12.6		04	9	9	E	LEAR	6538	
14	SSB	0825		433	W13	03	11.9			0	0	E	SVTO		
14	ADF	0859E	1600D	S09	E33	03	16.8	1	04	9	9	E	SVTO	6545	
14	APR	1013E	1254D	S18	E90	03	21.3	1		9	9	E	SVTO		
14	AFS	1101E	2053D	S25	E45	03	17.9		02	9	9	E	RAMY	6546	
14	DSD	1102E	1605D	S11	E28	03	16.6		04	9	9	E	RAMY	6545	
14	AFS	1102E	2053D	S10	E33	03	16.9		03	9	9	E	RAMY	6545	
14	AFS	1106E	2053D	S22	W32	03	12.0		02	9	9	E	RAMY	6538	
14	AFS	1106E	2053D	S26	W13	03	13.4		02	9	9	E	RAMY	6538	
14	ADF	1106E	2053D	S27	W19	03	13.0	1	11	9	9	E	RAMY	6538	
14	AFS	1110E	1327D	S09	W45	03	11.1		02	9	9	E	RAMY	6537	
14	ADF	1110E	2053D	S13	W39	03	11.5	1	08	9	9	E	RAMY	6537	
14	ASR	1116E	2040D	S23	E90	03	21.4			9	9	E	RAMY		
14	ASR	1126E	2040D	S03	E90	03	21.2			9	9	E	RAMY		
14	SSB	1129		432	W14	03	12.1			0	0	E	RAMY		101 W43
14	AFS	1329E	2053D	S09	E53	03	18.5		02	9	9	E	RAMY		
14	DSD	1336E	1405D	S12	E29	03	16.7		03	9	9	E	RAMY	6545	Flare Associated
14	ASR	1508E	0050D	S04	E90	03	21.3			8	8	E	HOLL		
14	ADF	1516E	0050D	S10	E32	03	17.0	1	07	9	9	E	HOLL	6545	
14	ASR	1557E	2053D	S07	E90	03	21.4			9	9	E	RAMY		
14	SSB	1711		103	W48	03	15.0			0	0	E	HOLL		
14	DSD	1829E	1916D	S10	E24	03	16.6		08	9	9	E	HOLL	6545	Flare Associated
14	ASR	2032E	0358D	S02	E88	03	21.4			9	9	E	PALE		
14	AFS	2040E	0358D	S25	W17	03	13.5		03	9	9	E	PALE	6538	
14	DSD	2110E	0358D	S09	E25	03	16.7		04	9	9	E	PALE	6545	
14	ASR	2307E	1026D	N00	E90	03	21.7			9	9	E	LEAR		
14	DSD	2310E	1026D	S07	E22	03	16.6		02	9	9	E	LEAR	6545	
14	SSB	2335		444	W32	03	11.5			0	0	E	PALE		
15	AFS	0401E	1026D	S08	E18	03	16.5		02	9	9	E	LEAR	6545	
15	SSB	1139		101	W56	03	15.6			0	0	E	RAMY		
15	ADF	1142E	2214D	S15	W40	03	12.4	2	11	9	9	E	RAMY	6538	
15	DSD	1400E	0030D	S09	W61	03	11.0		01	9	9	E	HOLL	6537	
15	ADF	1401E	0051D	S37	W35	03	12.8	1	20	9	9	E	HOLL	6538	
15	ADF	1403E	0030D	S16	W40	03	12.5	1	22	9	9	E	HOLL	6538	
15	SSB	1502		108	W65	03	16.3			0	0	E	HOLL		
15	DSD	1627E	2035D	S12	E15	03	16.8		03	9	9	E	RAMY	6545	Flare Associated
15	DSD	1634E	2035D	S25	E24	03	17.5		03	9	9	E	RAMY	6546	
15	ADF	1638E	2140D	S07	W35	03	13.1	2	05	9	9	E	RAMY	6542	
15	AFS	2023E	0309D	N20	E41	03	19.0		03	9	9	E	PALE		
15	DSD	2023E	0309D	S10	E13	03	16.8		02	9	9	E	PALE	6545	
15	AFS	2023E	0309D	S10	E17	03	17.1		03	9	9	E	PALE	6545	
15	DSD	2126E	2153D	S19	W53	03	11.8		03	9	9	E	RAMY	6538	Flare Associated
15	SSB	2223		410	W10	03	15.2			0	0	E	PALE		430 W30
15	DSD	2259E	0309D	S02	E68	03	21.0		03	9	9	E	PALE	6549	
15	DSD	2320E	1026D	S11	E09	03	16.6		04	9	9	E	LEAR	6545	
15	AFS	2321E	1026D	N22	E39	03	19.0		02	9	9	E	LEAR		
15	AFS	2322E	1026D	S21	W21	03	14.4		02	9	9	E	LEAR		
15	ADF	2324E	1026D	S28	W44	03	12.5	1	15	9	9	E	LEAR	6538	
15	ADF	2325E	1026D	S08	W64	03	11.2	1	11	9	9	E	LEAR	6537	
16	AFS	0002E	0309D	S21	W20	03	14.5		03	9	9	E	PALE		
16	AFS	0035E	0051D	S16	W58	03	11.6		02	9	9	E	HOLL	6538	
16	AFS	0035E	0051D	S20	W22	03	14.3		02	9	9	E	HOLL		
16	AFS	0220E	0309D	S24	W45	03	12.6		03	9	9	E	PALE	6538	

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
16	BSL	0642	0727D	S13	E90	03	23.1	1				C	ABST		
16	BSL	0645E	0719D	S15	W90	03	9.5	1				C	ABST		
16	APR	0645E	0918D	S67	E90	03	24.4	1				C	ABST		
16	BSL	0752E	0838D	S32	E90	03	23.4	1				C	ABST		
16	BSL	0752E	0838D	S38	E90	03	23.6	1				C	ABST		
16	APR	0752E	0918D	N26	E90	03	23.3	1				C	ABST		
16	DSD	1052E	1121D	S12	E05	03	16.8		04	9	9	E	RAMY	6545	Flare Associated
16	BSL	1112E	1117D	S23	E90	03	23.4			9	9	E	RAMY		
16	ASR	1117E	2220D	S26	E90	03	23.5			9	9	E	RAMY		
16	ADF	1125E	2220D	S22	W50	03	12.6	1	05	9	9	E	RAMY	6538	
16	ADF	1138E	1641D	N19	E32	03	18.9	1	04	9	9	E	RAMY	6551	
16	DSD	1252	1959D	S09	E01	03	16.6		04	9	9	E	RAMY	6545	Flare Associated
16	ASR	1532E	1534	S34	E90	03	23.8			9	9	E	RAMY		
16	BSL	1534	1835D	S34	E90	03	23.8			9	9	E	RAMY		
16	ADF	1632E	1909D	S07	W74	03	11.1	1	09	9	9	E	RAMY	6537	
16	AFS	1635E	2119D	N12	E24	03	18.5		01	9	9	E	RAMY		
16	DSD	1637E	1959D	S01	E59	03	21.1		04	9	9	E	RAMY	6549	
16	ADF	1744E	0104D	S18	W55	03	12.5	1	09	9	9	E	HOLL	6538	
16	CAP	1754E	2215D	S29	E90	03	23.8	1	01	9	9	E	HOLL		
16	AFS	1800E	2206D	S10	W45	03	13.4		02	9	9	E	HOLL	6542	
16	ADF	1823E	2215D	S10	W03	03	16.5	1	04	9	9	E	HOLL	6545	
16	ADF	1834E	0008D	S20	E25	03	18.7	1	14	9	9	E	HOLL	6547	
16	AFS	1841E	2225D	S04	E60	03	21.3		01	9	9	E	HOLL	6549	
16	ADF	1842E	0012D	S22	E79	03	22.8	1	10	9	9	E	HOLL	6550	
16	SSB	1900		409	W21	03	16.1			0	0	E	HOLL		104 W76
16	AFS	2319E	1028D	S18	W69	03	11.7		02	9	9	E	LEAR	6538	
16	AFS	2320E	1028D	S03	E53	03	20.9		02	9	9	E	LEAR	6549	
16	AFS	2321E	1028D	S20	W33	03	14.4		03	9	9	E	LEAR	6552	
16	AFS	2322E	1028D	N08	W29	03	14.8		02	9	9	E	LEAR		
16	ASR	2323E	1028D	S26	E90	03	24.0			9	9	E	LEAR		
16	ADF	2325E	1028D	S07	E01	03	17.0	1	04	9	9	E	LEAR	6545	
17	DSD	0604	1028D	S07	W06	03	16.8		10	9	9	E	LEAR	6545	Flare Associated
17	ASR	1057E	1209D	S14	W76	03	11.7			8	8	E	RAMY	6538	
17	AFS	1057E	1917D	S25	W54	03	13.3		02	9	9	E	RAMY	6538	
17	AFS	1103E	1917D	N11	E14	03	18.5		02	8	8	E	RAMY	6533	
17	ADF	1104E	1917D	S21	E63	03	22.3	2	29	9	9	E	RAMY	6550	
17	ASR	1125E	1351D	S07	W89	03	10.8			9	9	E	RAMY	6537	
17	ASR	1235	1612D	S22	E82	03	23.8			9	9	E	RAMY		Flare Associated
17	ASR	1332E	0105D	S25	E90	03	24.5			9	9	E	HOLL	6555	
17	DSD	1340E	2020D	S07	W14	03	16.5		06	9	9	E	HOLL	6545	
17	ADF	1417E	2315D	S22	W63	03	12.7	1	09	9	9	E	HOLL	6538	
17	DSD	1431E	0105D	S13	W10	03	16.8		11	9	9	E	HOLL	6545	
17	DSD	1449E	2021D	N21	E19	03	19.1		02	9	9	E	HOLL	6551	
17	AFS	1451E	0105D	S21	W41	03	14.5		02	7	8	E	HOLL	6552	
17	SSB	1520		386	W10	03	11.2			0	0	E	HOLL		
17	BSL	1855E	2016D	S29	E90	03	24.8			9	9	E	HOLL	6555	
17	BSD	1951E	2016D	S17	W82	03	11.6		08	9	9	E	HOLL	6538	Flare Associated
17	BSD	2128E	2313D	S10	W17	03	16.6		12	9	9	E	HOLL	6545	Flare Associated
17	BSL	2157E	2209D	S30	E90	03	25.0			9	9	E	HOLL	6555	Flare Associated
17	AFS	2315E	0105D	S25	W59	03	13.4		01	8	8	E	HOLL	6538	
17	ASR	2315E	0455D	S16	W90	03	11.1			9	9	E	LEAR	6538	
17	ASR	2316E	0105D	S17	W85	03	11.5			8	8	E	HOLL	6538	
17	AFS	2320E	1011D	S26	W58	03	13.5		01	8	8	E	LEAR	6538	
17	ASR	2330E	1011D	S25	E87	03	24.7			9	9	E	LEAR	6555	
18	ASR	0430E	1011D	S21	W90	03	11.3			9	9	E	LEAR	6538	
18	ASR	0638E	1343D	S24	E85	03	24.8			9	9	E	SVTO	6555	
18	ASR	0720E	1343D	S41	W86	03	11.3			7	8	E	SVTO		
18	BSL	1053E	1112	S42	E90	03	25.8	1				V	KHAR		
18	AFS	1120E	1343D	S10	W21	03	16.9		03	9	9	E	SVTO	6545	
18	ASR	1121E	1343D	S22	W90	03	11.5			9	9	E	SVTO	6538	
18	AFS	1320E	1343D	S10	W30	03	16.3		03	9	9	E	SVTO	6545	Flare Associated
18	ASR	1322E	1343D	S17	W90	03	11.7			9	9	E	SVTO	6538	
18	SSB	1331		363	W00	03	13.8			0	0	E	SVTO		
18	AFS	1333E	1343D	S26	W67	03	13.3		04	9	9	E	SVTO	6538	Flare Associated
18	ASR	1414E	2314D	S21	W86	03	12.0			9	9	E	HOLL	6538	
18	AFS	1420E	2314D	N14	W03	03	18.4		01	9	9	E	HOLL	6553	
18	AFS	1422E	2314D	S10	W22	03	16.9		02	9	9	E	HOLL	6545	
18	APR	1423E	1801D	S39	W90	03	11.3	1		9	9	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
18	DSD	1734E	2314D	S11	W29	03	16.5		07	9	9	E	HOLL	6545	Flare Associated
18	ASR	1743E	2314D	S25	E90	03	25.7			9	9	E	HOLL	6555	Flare Associated
18	EPL	1754	1801D	S39	W90	03	11.4	2		9	9	E	HOLL		
18	APR	1933E	2314D	S10	W90	03	12.0	1		7	7	E	HOLL	6537	
18	AFS	1957E	2314D	N21	E02	03	19.0		02	7	7	E	HOLL	6551	
18	MDP	2232E	2314D	N02	E90	03	25.7	1		7	7	E	HOLL		
18	ASR	2308E	1015D	S20	E90	03	25.8			9	9	E	LEAR	6555	
18	ASR	2319E	1015D	S23	W90	03	12.0			9	9	E	LEAR	6538	
19	AFS	0321E	1015D	N14	W11	03	18.3		02	9	9	E	LEAR	6553	
19	DSD	1746E	2242D	S26	E64	03	24.7		04	9	9	E	HOLL	6555	
19	AFS	1806E	2242D	S09	W40	03	16.7		01	9	9	E	HOLL	6545	
19	AFS	1806E	2242D	S09	W40	03	16.7		01	9	9	E	HOLL	6545	
19	AFS	2033E	2242D	S18	E22	03	21.5		02	9	9	E	HOLL	6550	
19	ASR	2200E	2242D	S41	W90	03	12.5			9	9	E	HOLL	6538	
20	SDF	0014E	0058	S20	E60	03	24.6	2				C	VORO		
20	ADF	0014E	0259D	S21	W58	03	15.6	1				C	VORO		
20	APR	0022	0301D	S06	W90	03	13.3	1				C	VORO		
20	APR	0022E	0301D	N30	W30	03	17.6	1				C	VORO		
20	APR	0052E	0201D	S33	W90	03	12.9	1				C	VORO		
20	AFS	0245E	0457D	S09	W41	03	17.0		02	9	9	E	LEAR	6545	
20	AFS	0246E	0457D	S23	E58	03	24.6		04	9	9	E	LEAR	6555	
20	DSD	0246E	0457D	S25	E64	03	25.1		06	9	9	E	LEAR	6555	
20	BSL	0340E	0512D	S12	W90	03	13.4			9	9	E	LEAR		
20	DSD	0843E	0858	S16	E65	03	25.3	1				C	ABST		
20	DSD	0947E	1417D	S21	E55	03	24.6		30	9	9	E	SVTO	6555	
20	ASR	1132E	1530D	S08	W90	03	13.7			8	9	E	SVTO		
20	SDF	1530E	0540D	S23	W62	03	15.9		16	0	0	E	SVTO		
20	ADF	1532E	2244D	S18	E69	03	25.9	1	12	9	9	E	HOLL	6555	
20	ADF	1533E	2244D	S20	E59	03	25.2	1	23	9	9	E	HOLL	6555	
20	AFS	1534E	2244D	S09	W49	03	17.0		04	9	9	E	HOLL	6545	
20	MDP	1614E	2244D	S21	E56	03	25.0			9	9	E	HOLL	6555	
20	DSD	1743E	2244D	S23	E50	03	24.6		03	9	9	E	HOLL	6555	Flare Associated
20	ASR	1814E	2244D	S14	E90	03	27.6			9	9	E	HOLL		
20	APR	2304E	0301D	N22	W90	03	14.0	1				C	VORO		
20	APR	2304E	0301D	N27	W90	03	13.9	1				C	VORO		
20	APR	2304E	0301D	N32	W90	03	13.8	1				C	VORO		
20	APR	2304E	0301D	S09	W90	03	14.2	1				C	VORO		
20	ADF	2305E	0259D	S23	W70	03	15.6	1				C	VORO		
20	ADF	2305E	0259D	S24	E56	03	25.3	1				C	VORO		
21	DSD	0037E	0055	S24	E50	03	24.9		31	9	9	E	LEAR	6555	Flare Associated
21	BSL	0112	0140	S18	W90	03	14.2	1				C	VORO		
21	ADF	0350E	0825D	S21	E40	03	24.2	1	12	9	9	E	LEAR	6555	
21	DSD	0603E	0700D	S24	E55	03	25.5	1				C	ABST		
21	DSD	0603E	0712D	S22	E57	03	25.6	1				C	ABST		
21	DSD	0623E	0640D	S29	E45	03	24.8	1				C	ABST		
21	ADF	0736E	1552D	S06	W50	03	17.6	1	11	9	9	E	SVTO	6545	
21	DSD	1041	1136	S23	E46	03	25.0		35	9	9	E	SVTO	6555	Flare Associated
21	BSD	1157E	1250D	S10	E76	03	27.2		12	9	9	E	SVTO		
21	DSD	1158	1248	S22	E39	03	24.5		09	9	9	E	SVTO	6555	
21	ADF	2332E	1021D	S25	E42	03	25.2	1	07	9	9	E	LEAR	6555	
22	ADF	0017E	0258D	N36	E17	03	23.4	1				C	VORO		
22	APR	0030E	0300D	N26	W90	03	15.0	1				C	VORO		
22	APR	0030E	0300D	N31	W90	03	14.9	1				C	VORO		
22	DSD	0650E	1021D	S22	E35	03	25.0		06	9	9	E	LEAR	6555	Flare Associated
22	DSD	0655E	1029D	S22	E36	03	25.0		11	9	9	E	SVTO	6555	Flare Associated
22	DSD	0656	0829	S20	E39	03	25.3	1				C	ABST		
22	APR	0707E	0914D	N27	W90	03	15.3	1				C	ABST		
22	BSL	0707E	0914D	S09	W90	03	15.5	1				C	ABST		
22	BSL	0738E	0818D	N40	E90	03	29.6	1				C	ABST		
22	BSL	0738E	0914D	N42	E90	03	29.7	1				C	ABST		
22	BSL	0738E	0914D	N50	E90	03	29.9	1				C	ABST		
22	ASR	0944E	1021D	S13	E90	03	29.2			9	9	E	LEAR		
22	DSD	0945E	1021D	S22	E25	03	24.3		04	9	9	E	LEAR	6555	Flare Associated
22	SSB	1033		327	W14	03	20.4			0	0	E	SVTO		
22	ADF	1115E	1512D	N06	E72	03	27.8	1	14	9	9	E	SVTO		
22	ADF	1142E	1606D	S10	E68	03	27.6	1	06	9	9	E	SVTO	6558	

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	APR	1333	1520D	S12	E90	03	29.3			9	9	E	SVTO	6558	
22	AFS	1415E	0110D	S13	E71	03	27.9		02	9	9	E	HOLL	6558	
22	ADF	1416E	0110D	S11	E64	03	27.4	1	09	9	9	E	HOLL	6558	
22	ASR	1447E	1529D	S17	W90	03	15.8			9	9	E	SVTO		
22	SDF	1606E	0930D	N33	W16	03	21.4		20	0	0	E	SVTO		
22	DSD	2104E	2237D	S14	W78	03	17.0		05	9	9	E	HOLL	6545	Flare Associated
22	BSD	2116E	2250D	S22	E26	03	24.9		05	9	9	E	HOLL	6555	Flare Associated
22	DSD	2250E	2250D	S24	E27	03	25.0		09	9	9	E	HOLL	6555	Flare Associated
23	SDF	0511E	2309D	S08	W12	03	22.3		04	0	0	E	LEAR		
23	ASR	1005E	1052D	S07	W90	03	16.7			9	9	E	SVTO	6545	
23	DSD	1125E	1142	N12	W68	03	18.3		22	9	9	E	SVTO	6553	Flare Associated
23	DSD	1253E	1314D	S21	E12	03	24.4		08	9	9	E	SVTO	6555	Flare Associated
23	AFS	1322E	1548D	N13	E19	03	25.0		02	9	9	E	SVTO	6559	
23	DSD	1603E	0111D	S21	E16	03	24.9		03	9	9	E	HOLL	6555	
23	DSD	1603E	0111D	S27	E17	03	25.0		05	8	8	E	HOLL	6555	
23	ADF	1719E	2203D	S15	E53	03	27.7	1	09	9	9	E	RAMY	6558	
23	AFS	1719E	2203D	S15	E60	03	28.3		02	9	9	E	RAMY	6558	
23	DSD	1724E	2023D	S19	E05	03	24.1		07	9	9	E	RAMY	6555	
23	ADF	1740E	1818D	S23	E07	03	24.3	2	13	9	9	E	HOLL	6555	
23	ADF	1829E	0111D	S31	E18	03	25.2	2	13	9	9	E	HOLL	6555	
23	ASR	1944E	0111D	S08	W90	03	17.1			8	8	E	HOLL	6545	
23	BSD	1957E	0111D	S15	W70	03	18.5		30	9	9	E	HOLL	6553	
23	AFS	1959E	0111D	N12	E19	03	25.3		01	7	7	E	HOLL	6559	
23	SDF	2252E	0114	N30	E19	03	25.4	2				C	VORO		
23	ADF	2252E	0259D	N03	E14	03	25.0	1				C	VORO		
23	ADF	2252E	0259D	N30	W16	03	22.7	1				C	VORO		
23	APR	2306E	0301D	N17	W90	03	17.1	1				C	VORO		
23	SSB	2340		330	W37	03	21.6			0	0	E	HOLL		
24	AFS	0225E	0435D	N15	E14	03	25.2		02	9	9	E	PALE	6559	
24	BSD	0225E	0435D	N16	W80	03	18.0		05	9	9	E	PALE	6553	
24	AFS	0225E	0435D	S13	E50	03	27.9		02	9	9	E	PALE	6558	
24	ADF	0225E	0435D	S24	E02	03	24.2		09	9	9	E	PALE	6555	
24	AFS	0225E	0435D	S25	W02	03	23.9		03	9	9	E	PALE	6555	
24	DSD	0305E	0435D	S26	E08	03	24.8		04	9	9	E	PALE	6555	Flare Associated
24	DSD	0625E	1013D	S18	E08	03	24.9		03	9	9	E	LEAR	6555	
24	ASR	0722E	1637D	N13	W89	03	17.6			9	9	E	SVTO	6553	
24	AFS	0740E	1637D	S11	E31	03	26.6		01	9	9	E	SVTO		
24	DSD	0815E	1048D	S21	E08	03	24.9		07	9	9	E	SVTO	6555	
24	ASR	0815E	1315D	S13	W90	03	17.5			9	9	E	SVTO	6547	
24	DSD	1048E	1130D	S22	W02	03	24.3		23	9	9	E	SVTO	6555	Flare Associated
24	DSD	1300	1637D	S21	E04	03	24.8		11	9	9	E	SVTO	6555	Flare Associated
24	APR	1320E	1637D	N20	E90	03	31.4	1		9	9	E	SVTO		
24	AFS	1321E	1637D	N16	E15	03	25.7	1	03	9	9	E	SVTO	6559	
24	DSD	1330E	1649D	N15	E15	03	25.7		03	9	9	E	RAMY	6559	
24	DSD	1331E	2148D	S20	E03	03	24.8		03	9	9	E	RAMY	6555	
24	ADF	1332E	2148D	N00	W41	03	21.5	1	06	9	9	E	RAMY	6549	
24	ASR	1335E	2148D	N14	W76	03	18.8			9	9	E	RAMY	6553	
24	DSD	1335E	1637D	S14	E18	03	25.9		04	9	9	E	SVTO		
24	DSD	1336E	2344D	S21	E03	03	24.8		04	9	9	E	HOLL	6555	
24	AFS	1403E	1625D	N08	W59	03	20.2		01	9	9	E	RAMY		
24	SSB	1404		327	W42	03	22.4			0	0	E	RAMY		
24	ADF	1537E	2344D	N09	E07	03	25.2	2	12	9	9	E	HOLL		
24	AFS	1551E	1719D	N09	W60	03	20.1		02	8	7	E	HOLL		
24	SSB	1557		309	W25	03	24.0			0	0	E	HOLL		
24	SDF	2247	2355	N33	W41	03	21.7	1				C	VORO		
24	ADF	2247E	0110D	S08	E05	03	25.3	1				C	VORO		
24	APR	2250E	0109D	N14	W90	03	18.1	1				C	VORO		
24	APR	2250E	0109D	N20	E90	03	31.8	1				C	VORO		
24	ASR	2313E	1015D	N15	W90	03	18.1			9	9	E	LEAR	6553	
24	ASR	2323E	1015D	N27	W90	03	18.0			9	9	E	LEAR	6551	
24	DSD	2328E	1015D	S20	W03	03	24.7		03	9	9	E	LEAR	6555	
25	DSD	0805E	0938D	S25	W03	03	25.1		08	9	9	E	SVTO	6555	
25	DSD	0815E	0948D	S25	W03	03	25.1		04	9	9	E	LEAR	6555	
25	ASR	0919E	1245D	N11	W90	03	18.6			9	9	E	SVTO	6553	
25	DSD	0938E	1601D	S28	W07	03	24.8		03	9	9	E	SVTO	6555	
25	AFS	0943E	1630D	S25	W10	03	24.6		02	9	9	E	SVTO	6555	
25	ADF	0953E	1630D	S11	E10	03	26.2	1	04	9	9	E	SVTO	6560	

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	AFS	0953E	1630D	S12	E08	03	26.0		02	9	9	E	SVTO	6560	
25	AFS	1048E	1553D	N15	E04	03	25.7		02	8	8	E	RAMY		
25	AFS	1051E	1920D	S11	E11	03	26.3		02	9	9	E	RAMY	6560	
25	DSD	1052E	1920D	S20	W09	03	24.8		02	9	9	E	RAMY	6555	
25	DSD	1052E	1920D	S26	W07	03	24.9		07	9	9	E	RAMY	6555	
25	ASR	1058E	1920D	N11	W90	03	18.7			9	9	E	RAMY		
25	SSB	1103		326	W53	03	23.2			0	0	E	RAMY		
25	ADF	1106E	1920D	N14	W03	03	25.2	2	13	9	9	E	RAMY	6559	
25	AFS	1249E	1619D	S08	E08	03	26.1		02	9	9	E	RAMY	6560	
25	ASR	1522E	2051D	N15	W90	03	18.8			9	9	E	HOLL		
25	ADF	1542E	0050D	N07	W04	03	25.3	1	06	9	9	E	HOLL	6559	
25	DSD	1554E	1900D	S26	W11	03	24.8		17	9	9	E	HOLL	6555	Flare Associated
25	ASR	1758E	0303D	N14	W90	03	18.9			9	9	E	PALE	6553	
25	AFS	1758E	0303D	S11	E05	03	26.1		03	9	9	E	PALE	6560	
25	SSB	1812		279	W10	03	31.7			0	0	E	PALE		303 W34
25	ADF	2302E	0259D	N07	E14	03	27.0	1				C	VORO		
25	ADF	2302E	0259D	N36	W06	03	25.5	1				C	VORO		
26	ADF	0544E	1145D	S16	E22	03	27.9	1	11	8	8	E	SVTO	6558	
26	ADF	0614E	1145D	S21	W29	03	24.0	1	08	9	9	E	SVTO	6556	
26	AFS	0639E	1145D	N15	W09	03	25.6		02	8	8	E	SVTO		
26	AFS	0755E	1145D	S06	W13	03	25.3		02	9	9	E	SVTO		
26	DSD	0829E	0945D	S28	W20	03	24.8		04	9	9	E	SVTO	6555	
26	ADF	0940E	0954D	S09	E00	03	26.4	1	05	9	9	E	LEAR	6560	
26	AFS	1049E	1750D	S09	W03	03	26.2		02	9	9	E	RAMY	6560	
26	AFS	1051E	1645D	S15	E21	03	28.0		02	9	9	E	RAMY	6558	
26	ADF	1051E	2141D	S16	E17	03	27.7	1	10	9	9	E	RAMY	6558	
26	ADF	1054E	1646D	S24	E08	03	27.1	1	07	9	9	E	RAMY	6557	
26	ADF	1058E	2141D	S05	W68	03	21.4	1	05	9	9	E	RAMY	6549	
26	AFS	1059E	1714D	S07	W14	03	25.4		02	9	9	E	RAMY		
26	SSB	1110		279	W19	04	1.5			0	0	E	RAMY		312 W52
26	AFS	1130E	1715D	N15	W09	03	25.8		02	9	9	E	RAMY		
26	DSD	1135E	1639D	S20	W22	03	24.8		03	9	9	E	RAMY	6555	
26	ADF	1135E	2141D	S26	W15	03	25.3	1	09	9	9	E	RAMY	6555	
26	SDF	1145E	0658D	N32	W14	03	25.4		12	0	0	E	SVTO		
26	DSD	1214E	1250D	S27	W22	03	24.8		07	9	9	E	RAMY	6555	
26	ADF	1342E	1813D	N28	E52	03	30.6	1	12	8	8	E	RAMY		
26	DSD	1417E	1532D	S21	W19	03	25.1		13	9	9	E	RAMY	6555	Flare Associated
26	AFS	1520E	0050D	S12	E08	03	27.2		02	9	9	E	HOLL	6560	
26	ADF	1542E	0050D	N07	W04	03	26.3	1	06	9	9	E	HOLL	6559	
26	ASR	1556	1640D	N15	W88	03	20.0			9	9	E	RAMY		
26	DSD	1701E	1846D	S26	W23	03	24.9		06	9	9	E	HOLL	6555	
26	SDF	1730E	2000D	N08	W20	03	25.2		09	0	0	E	HOLL		
26	SSB	1808		281	W25	04	2.0			0	0	E	HOLL		328 W72
26	ASR	1820E	0433D	N11	W88	03	20.1			9	9	E	PALE		
26	ADF	1846E	2241D	S16	E07	03	27.3	1	10	9	9	E	HOLL	6558	
26	DSD	1927E	0433D	S27	W24	03	24.9		06	9	8	E	PALE	6555	
26	DSD	2045E	0433D	S24	W20	03	25.3		18	9	9	E	PALE	6555	Flare Associated
26	DSD	2045E	2126D	S23	W21	03	25.2		21	9	9	E	RAMY	6555	Flare Associated
27	ASR	0625E	1501D	N11	W90	03	20.5			9	9	E	SVTO	6549	
27	SSB	0626		281	W31	04	2.6			0	0	E	SVTO		
27	AFS	1048E	1607D	S09	W17	03	26.2		03	9	9	E	RAMY	6560	
27	AFS	1048E	1501D	N17	W27	03	25.4		02	9	9	E	SVTO		
27	ADF	1050E	2209D	N11	W30	03	25.2	1	07	9	9	E	RAMY	6559	
27	ADF	1053E	1619D	S15	E04	03	27.7	1	08	9	9	E	RAMY	6558	
27	ADF	1054E	1630D	S22	W07	03	26.9	1	07	7	7	E	RAMY	6557	
27	DSD	1058E	1319D	S26	W31	03	25.0		04	9	9	E	RAMY	6555	
27	ADF	1058E	1702D	S19	W43	03	24.2	1	09	9	9	E	RAMY	6555	
27	ADF	1058E	2209D	S26	W34	03	24.8	1	07	9	9	E	RAMY	6555	
27	SSB	1129		281	W35	04	2.9			0	0	E	RAMY		
27	DSD	1351E	2327D	S21	W32	03	25.1		04	5	6	E	HOLL	6555	
27	SDF	1501E	0708D	N28	W14	03	26.5		05	0	0	E	SVTO		
27	APR	1502E	1700D	S01	W90	03	20.9	1		6	6	E	HOLL	6549	
27	ADF	1508E	2327D	S22	W46	03	24.1	1	08	9	9	E	HOLL	6555	
27	SSB	1541		282	W37	04	3.2			0	0	E	HOLL		
27	DSD	1702E	2132D	N16	W29	03	25.5		04	8	8	E	RAMY		
27	ADF	1745E	0302D	S23	W44	03	24.3		06	9	9	E	PALE	6555	
27	DSD	1756	1822	S26	W39	03	24.7		13	9	9	E	RAMY	6555	Flare Associated
27	DSD	1808E	0302D	S28	W37	03	24.9		04	9	9	E	PALE	6555	

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	DSD	1808E	0302D	S29	W37	03	24.8		08	9	9	E	PALE	6555	
27	AFS	1812E	0302D	N14	W01	03	27.7		02	9	9	E	PALE		
27	AFS	1813E	0302D	N17	W25	03	25.8		05	9	9	E	PALE		
27	AFS	1819E	0302D	S13	E03	03	28.0		02	9	9	E	PALE	6558	
27	ADF	1821E	0302D	S17	E01	03	27.8		10	9	9	E	PALE	6558	
27	AFS	1835E	0302D	S09	W50	03	24.0		02	9	9	E	PALE	6556	
27	AFS	1835E	0302D	S11	W51	03	23.9		03	9	9	E	PALE	6556	
27	ADF	1846E	0302D	S11	W20	03	26.3		09	9	9	E	PALE	6560	
27	AFS	1846E	0302D	S11	W21	03	26.2		02	9	9	E	PALE	6560	
27	ADF	2319E	0243D	N06	W43	03	24.7	1				C	VORO		
27	ADF	2319E	0243D	N13	E05	03	28.3	1				C	VORO		
27	APR	2341E	0241D	S25	E90	04	3.9	1				C	VORO		
28	APR	0001E	0302D	S23	E90	04	3.9			9	9	E	PALE		
28	APR	0020	0241D	S06	W90	03	21.3	1				C	VORO		
28	ASR	0118E	0302D	S06	W90	03	21.3			9	9	E	PALE	6550	
28	SSB	0708		281	W45	04	4.0			0	0	E	SVTO		
28	ASR	0758E	1041D	S30	W90	03	21.2			9	9	E	SVTO		
28	APR	0800E	1041D	N01	W90	03	21.6	2		9	9	E	SVTO		
28	AFS	0802E	1041D	S24	W57	03	23.9		08	9	9	E	SVTO	6555	
28	AFS	0803E	1041D	S14	W52	03	24.4		01	9	9	E	SVTO	6556	
28	AFS	0804E	1041D	N15	W37	03	25.5		03	9	9	E	SVTO	6559	
28	BSD	0852E	1041D	N17	E80	04	3.4		08	9	9	E	SVTO		
28	SSB	1151		283	W49	04	4.5			0	0	E	RAMY		
28	AFS	1241E	2147D	S12	W56	03	24.3		02	9	9	E	RAMY	6556	
28	DSD	1245E	1422D	S21	W46	03	25.0		04	9	9	E	RAMY	6555	
28	BSD	1253E	1300D	N14	E76	04	3.3		03	9	9	E	RAMY		
28	ADF	1253E	2147D	N11	W44	03	25.2	1	13	9	9	E	RAMY		
28	DSD	1540E	0104D	S12	E76	04	3.4		10	9	9	E	HOLL		
28	DSD	1540E	0104D	S21	W47	03	25.0		03	9	9	E	HOLL	6555	
28	DSD	1630E	1710D	S08	W33	03	26.2		03	9	9	E	RAMY	6560	
28	DSD	1630E	1710D	S24	W46	03	25.1		03	9	9	E	RAMY	6555	
28	DSD	1710E	1915D	S24	W53	03	24.6		06	9	9	E	RAMY	6555	
28	DSD	1828E	0231D	S21	W51	03	24.8		04	9	9	E	PALE	6555	
28	AFS	1828E	0231D	S25	W52	03	24.7		03	9	9	E	PALE	6555	
28	ADF	1828E	0426D	S09	W30	03	26.5		03	9	9	E	PALE	6560	
28	DSD	1828E	0426D	S23	W46	03	25.2		02	9	9	E	PALE	6555	
28	ADF	1828E	0426D	S27	W52	03	24.7		07	9	9	E	PALE	6555	
28	AFS	1838E	0240D	S12	W58	03	24.4		01	9	9	E	PALE	6556	
28	AFS	1838E	0240D	S22	W24	03	26.9		02	9	9	E	PALE	6557	
28	AFS	1838E	0426D	N16	E77	04	3.6		03	9	9	E	PALE		
28	AFS	1838E	0426D	S07	W45	03	25.4		02	9	9	E	PALE	6561	
28	ADF	1838E	0426D	S09	W47	03	25.2		05	9	9	E	PALE	6561	
28	ADF	1838E	0426D	S10	W59	03	24.3		04	9	9	E	PALE	6556	
28	BSD	1903E	2025D	S25	W69	03	23.4		05	9	9	E	PALE	6555	
28	DSD	1918E	0240D	N18	W41	03	25.7		01	9	9	E	PALE	6559	
28	ADF	1918E	0240D	N19	W42	03	25.6		05	9	9	E	PALE	6559	
28	AFS	1918E	0426D	N16	W41	03	25.7		04	9	9	E	PALE	6559	
28	DSD	1918E	0426D	N18	W42	03	25.6		01	9	9	E	PALE	6559	
28	AFS	2120E	0426D	S10	E81	04	4.0		01	9	9	E	PALE	6563	
28	SDF	2228E	2102D	N26	E24	03	30.8		33	0	0	E	HOLL		
28	ADF	2237E	0025D	S07	W32	03	26.5	1	08	9	9	E	HOLL	6560	
28	AFS	2238E	0104D	N17	W42	03	25.7		03	9	9	E	HOLL	6559	
28	ADF	2259E	0049D	N07	W08	03	28.3	1				C	VORO		
28	ADF	2259E	0049D	N43	W10	03	28.1	1				C	VORO		
29	DSD	0030E	1015D	S10	E68	04	3.1		03	9	9	E	LEAR	6563	
29	APR	0213E	0426D	S13	E90	04	4.9			9	9	E	PALE		
29	ADF	0259E	0426D	N22	E48	04	1.8	1	10	8	8	E	PALE		
29	APR	0555E	1015D	S15	E90	04	5.1			9	9	E	LEAR		
29	APR	0555E	1015D	S25	E90	04	5.2			9	9	E	LEAR		
29	AFS	0652E	1407D	S09	E70	04	3.5		03	9	9	E	SVTO	6563	
29	DSD	0659	0723	S30	W57	03	24.8		13	9	9	E	SVTO	6555	Flare Associated
29	SSB	0707		227	W05	03	31.3			0	0	E	SVTO		
29	DSD	0723E	0953D	S27	W53	03	25.2		07	9	9	E	SVTO	6555	
29	AFS	0915E	1407D	N16	E62	04	3.1		02	9	9	E	SVTO	6562	Flare Associated
29	SSB	1324		283	W64	04	6.0			0	0	E	RAMY		
29	AFS	1328E	0103D	S11	E64	04	3.4		04	9	9	E	HOLL	6563	
29	ADF	1335E	0103D	N12	E61	04	3.2	1	04	9	9	E	HOLL	6562	
29	DSD	1336E	1501D	N12	E62	04	3.2		04	9	9	E	RAMY	6562	

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
29	AFS	1336E	2122D	N13	E59	04	3.0		02	9	9	E	RAMY	6562	
29	ASR	1337E	2122D	N08	E90	04	5.3			9	9	E	RAMY		
29	ADF	1338E	1627D	S10	E65	04	3.4	1	04	9	9	E	RAMY	6563	
29	ADF	1344E	1412D	S22	W56	03	25.3	1	05	9	9	E	RAMY	6555	
29	DSD	1348E	1554D	S12	W70	03	24.3		02	9	9	E	RAMY	6560	
29	BSD	1400E	1730D	S20	W61	03	24.9		05	9	9	E	HOLL	6555	
29	SDF	1407E	0539D	N04	W69	03	24.4		07	0	0	E	SVTO		
29	SDF	1407E	0539D	N05	E38	04	1.4		11	0	0	E	SVTO		
29	SDF	1407E	0539D	N20	W21	03	28.0		07	0	0	E	SVTO		
29	DSD	1412E	2122D	S22	W68	03	24.4		09	9	9	E	RAMY	6555	
29	DSD	1435E	1912D	S08	W61	03	25.0		03	9	9	E	HOLL	6561	
29	CRN	1500E	1850D	S18	W90	03	22.8		09	7	6	E	HOLL		
29	DSD	1525	1541	S20	W62	03	24.9		04	9	9	E	RAMY	6555	Flare Associated
29	DSD	1622E	2058D	S21	W59	03	25.1		03	9	9	E	RAMY	6555	
29	AFS	1625E	2122D	S09	E63	04	3.4		03	9	9	E	RAMY	6563	
29	SSB	1705		282	W66	04	6.1			0	0	E	PALE		
29	SSB	1720		228	W11	03	31.8			0	0	E	HOLL		282 W65
29	ASR	1727E	0435D	N10	E90	04	5.5			9	9	E	PALE		
29	APR	1727E	2122D	S28	E90	04	5.8			8	7	E	PALE		
29	AFS	1744E	2122D	N17	W58	03	25.3		02	8	8	E	RAMY	6559	
29	DSD	1747E	0013D	S25	W82	03	23.4		05	9	9	E	PALE	6555	
29	DSD	1747E	0435D	S13	W75	03	24.1		06	9	9	E	PALE	6556	
29	ASR	1747E	0435D	S22	W35	03	27.0	1		9	9	E	PALE	6557	
29	DSD	1747E	0435D	S26	W73	03	24.1		03	9	9	E	PALE	6555	
29	DSD	1752E	0217D	S14	W20	03	28.2		04	9	9	E	PALE	6558	
29	DSD	1752E	0217D	S18	W23	03	28.0		03	9	9	E	PALE	6558	
29	AFS	1752E	0435D	S10	W65	03	24.9		03	9	9	E	PALE	6560	
29	AFS	1800E	0435D	S11	E62	04	3.4		02	9	9	E	PALE	6563	
29	BSD	1850E	2112D	S21	W80	03	23.6		10	9	9	E	HOLL	6555	
29	ASR	2314E	1012D	S22	W90	03	23.0			9	9	E	LEAR	6555	
29	AFS	2315E	1012D	S11	E57	04	3.2		02	9	9	E	LEAR	6563	
30	AFS	0005E	0245D	N22	E22	03	31.7		03	9	9	E	PALE	6564	
30	ADF	0005E	0415D	S10	W64	03	25.2	2	06	9	9	E	PALE		
30	ADF	0005E	0435D	N15	E55	04	3.2		08	9	9	E	PALE	6562	
30	AFS	0005E	0435D	N15	E59	04	3.5		03	9	9	E	PALE	6562	
30	ASR	0005E	0435D	S22	W86	03	23.4			9	9	E	PALE	6555	
30	ASR	0202E	1012D	N08	E90	04	5.8			9	9	E	LEAR		
30	SSB	0208		228	W15	04	1.2			0	0	E	PALE		245 W32
30	BSD	0240	0345D	S29	W70	03	24.6		26	9	9	E	PALE	6555	
30	DSD	0242E	0337D	S28	W73	03	24.4		14	9	9	E	LEAR	6555	
30	SDF	1012E	2240D	N00	W44	03	27.1		13	0	0	E	LEAR		
30	SDF	1012E	2240D	N27	W17	03	29.1		10	0	0	E	LEAR		
30	ADF	1144E	2055D	N13	E46	04	2.9	1	07	9	9	E	RAMY	6562	
30	DSD	1205E	2033D	S25	W74	03	24.8		11	9	9	E	RAMY	6555	Flare Associated
30	AFS	1221E	2034D	N20	E14	03	31.6		02	9	9	E	RAMY	6564	
30	APR	1450E	1535D	S34	W90	03	23.4	2		9	9	E	RAMY		
30	ASR	1615E	0014D	S14	W90	03	23.9			9	9	E	HOLL	6556	
30	ASR	1615E	0014D	S23	W90	03	23.7			9	9	E	HOLL	6555	
30	ASR	1615E	0114D	S22	W90	03	23.8			9	9	E	HOLL	6555	
30	AFS	1629E	0114D	S07	W80	03	24.7		02	9	9	E	HOLL	6561	
30	ADF	1629E	1959D	S05	W77	03	24.9	1	06	9	9	E	HOLL	6561	
30	AFS	1635E	0114D	N09	E76	04	5.4		02	9	9	E	HOLL		
30	ADF	1637E	0114D	N09	E48	04	3.3	1	09	9	9	E	HOLL	6562	
30	ASR	1642E	2055D	S23	W90	03	23.8			9	9	E	RAMY	6555	
30	ASR	1805E	0430D	S23	W90	03	23.8			9	9	E	PALE	6555	
30	DSD	1814E	0430D	N17	W69	03	25.5		05	9	9	E	PALE	6559	
30	DSD	1814E	0430D	S05	W76	03	25.1		03	9	9	E	PALE	6561	
30	DSD	1814E	0430D	S10	W74	03	25.2		03	9	9	E	PALE	6561	
30	ADF	1814E	0430D	S17	W37	03	27.9		12	9	9	E	PALE	6558	
30	DSD	1814E	0430D	S22	W78	03	24.8		04	9	9	E	PALE	6555	
30	AFS	1856E	0430D	S08	E50	04	3.5		04	9	9	E	PALE	6564	
30	ASR	2015E	2255D	S13	W90	03	24.0			7	6	E	HOLL	6555	
30	AFS	2150E	0430D	N16	E45	04	3.3		03	9	9	E	PALE	6562	
30	AFS	2150E	0430D	S10	E48	04	3.5		03	9	9	E	PALE	6563	
30	ADF	2313E	1011D	N13	E47	04	3.5	1	11	9	9	E	LEAR	6562	
30	AFS	2314E	1011D	S11	E45	04	3.3		02	9	9	E	LEAR	6563	
30	ASR	2315E	1011D	S18	W90	03	24.1			9	9	E	LEAR	6555	
30	ASR	2315E	1011D	S22	W90	03	24.0			9	9	E	LEAR	6555	

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
31	ASR	0611E	1011D	S05	W90	03	24.5			9	9	E	LEAR	6561	
31	BSL	0829	1011D	S24	W90	03	24.4			9	9	E	LEAR	6555	Flare Associated
31	AFS	1048E	2132D	N07	E66	04	5.4		02	9	9	E	RAMY	6565	
31	DSD	1056E	2132D	S12	E34	04	3.0		02	9	9	E	RAMY	6563	
31	AFS	1056E	2132D	S12	E38	04	3.3		03	9	9	E	RAMY	6563	
31	ASR	1058E	1711D	S22	W86	03	24.8			9	9	E	RAMY	6555	
31	AFS	1103E	2132D	N15	E37	04	3.3		02	9	9	E	RAMY	6562	
31	DSD	1255E	1520D	S10	W75	03	25.9		11	9	9	E	RAMY	6560	
31	SDF	1323E	2231D	S34	W28	03	29.3		05	0	0	E	HOLL		
31	ASR	1345E	2132D	S08	W88	03	25.0			9	9	E	RAMY	6556	
31	ADF	1350E	0116D	N10	E34	04	3.1	1	09	9	9	E	HOLL	6562	
31	AFS	1351E	0037D	N15	E36	04	3.3		02	9	9	E	HOLL	6562	
31	ADF	1352E	1956D	S11	E40	04	3.6	1	11	9	9	E	HOLL	6563	
31	ADF	1359E	2132D	N12	E39	04	3.5	1	07	9	9	E	RAMY	6562	
31	SSB	1435		246	W54	04	4.6			0	0	E	HOLL		
31	ADF	1524E	2132D	S16	W50	03	27.8	1	13	9	9	E	RAMY	6558	
31	ASR	1619E	2132D	S20	W88	03	24.9			9	9	E	RAMY	6555	
31	DSD	1623E	2132D	N08	E65	04	5.5		05	9	9	E	RAMY	6565	
31	ADF	1625E	2132D	N22	E09	04	1.4	1	07	7	7	E	RAMY	6564	
31	DSD	1626E	1740D	S08	E38	04	3.5		03	8	8	E	RAMY	6563	
31	DSD	1630E	2132D	N15	E30	04	2.9		04	9	9	E	RAMY	6562	
31	APR	1646E	0037D	S23	W90	03	24.8	2		9	9	E	HOLL	6555	
31	ASR	1652E	1735D	S30	W90	03	24.6			9	9	E	RAMY	6555	
31	EPL	1653	1713D	S23	W90	03	24.8	2		9	9	E	HOLL	6555	
31	ASR	1730E	0440D	S08	W90	03	25.0			9	9	E	PALE	6561	
31	ASR	1730E	0440D	S10	W88	03	25.1			9	9	E	PALE	6556	
31	ASR	1730E	0440D	S22	W88	03	25.0			9	9	E	PALE	6555	
31	AFS	1743E	0440D	N14	E34	04	3.3		03	9	9	E	PALE	6562	
31	AFS	1743E	0440D	S11	E36	04	3.4		03	9	9	E	PALE	6563	
31	AFS	1745E	0440D	N09	E63	04	5.5		03	9	9	E	PALE	6565	
31	DSD	1745E	0440D	S15	E51	04	4.6		02	8	8	E	PALE		
31	SSB	1750		253	W62	04	5.4			0	0	E	PALE		
31	ADF	1755E	0440D	N15	E35	04	3.4		06	9	9	E	PALE	6562	
31	DSD	1755E	0440D	S11	E32	04	3.1		03	8	8	E	PALE	6563	
31	ADF	1755E	0440D	S15	W48	03	28.1	1	09	9	9	E	PALE	6558	
31	DSD	1755E	0440D	S16	W44	03	28.4		03	9	9	E	PALE	6558	
31	EPL	1910E	1933D	S17	E90	04	7.6			9	9	E	HOLL		
31	EPL	1910E	1935D	S16	E90	04	7.6			9	9	E	PALE		
31	BSL	1910E	1929D	S17	E90	04	7.6			9	9	E	RAMY		
31	ASR	1929E	2034D	S17	E90	04	7.6			9	9	E	RAMY		
31	ASR	2015E	2100D	N17	W89	03	25.1			9	9	E	PALE	6559	
31	BSL	2018E	2042D	S30	W90	03	24.8			9	9	E	HOLL	6555	
31	BSL	2018E	2100D	S27	W90	03	24.8			9	9	E	PALE	6555	
31	BSL	2021E	2109D	S32	W90	03	24.7			9	9	E	RAMY	6555	
31	APR	2050E	2133D	S29	E90	04	7.9	2		9	9	E	PALE		
31	APR	2126E	2132D	S15	E90	04	7.7	2		9	9	E	RAMY		
31	LPS	2133E	0312D	S18	E90	04	7.7			9	9	E	PALE		
31	ADF	2355E	1012D	N11	E28	04	3.1	1	02	9	9	E	LEAR	6562	

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.

Eppley Lab

1991 DAILY MEAN SOLAR IRRADIANCE*
NIMBUS-7 (ERB Channel 10C)

Units = W/m2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1373.42	1370.88	1373.47	1372.84								
2	1373.25	1371.78	1373.66	1372.68								
3	1373.21	1372.27	1373.66	1372.78								
4	1373.19	1372.79	1373.73	1372.97								
5	1373.38	1373.13	1373.87	1373.26								
6	1373.63	1373.53	1373.94	1373.42								
7	1373.46	1373.35	1373.88	1373.99								
8	1373.23	1373.01	1373.73	1374.06								
9	1373.03	1372.60	1373.28	1373.98								
10	1372.58	1372.52	1372.84	1374.07								
11	1372.21	1372.54	1372.72	1373.88								
12	1371.69	1372.97	1372.76	1373.62								
13	1371.60	1372.83	1372.74	1373.58								
14	1371.58	1373.26	1372.84	1373.48								
15	1371.09	1373.22	1373.18	1373.42								
16	1371.06	1373.46	1373.31	1373.27								
17	1371.62	1373.32	1373.42	1373.12								
18	1371.96	1373.18	1373.27	1373.27								
19	1372.51	1372.87	1372.94	1373.33								
20	1372.94	1372.49	1372.59	1373.54								
21	1373.06	1372.18	1372.40	1373.70								
22	1372.88	1372.00	1371.90	1373.67								
23	1372.53	1371.92	1371.30	1373.54								
24	1372.27	1371.89	1371.15	1373.50								
25	1372.08	1372.28	1371.27	1373.47								
26	1371.71	1372.43	1371.74	1373.28								
27	1371.26	1372.74	1372.14	1373.18								
28	1371.07	1373.18	1372.84	1372.89								
29	1370.74		1373.25	1372.93								
30	1370.44		1373.18	1372.94								
31	1370.40		1373.03									

*U.S. Government Printing Office: 1991 — 573-029/41000

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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."