

JANUARY 2001 NUMBER 677 - Part II



# Solar-Geophysical Data comprehensive reports

Data for July 2000 and Miscellaneous

Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

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NATIONAL GEOPHYSICAL  
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JANUARY 2001 NUMBER 677 - Part II

# **Solar-Geophysical Data comprehensive reports**

Data for July 2000 and Late Data

International Standard Serial Number: 0038-0911

Library of Congress Catalog Number: 79-640375 //r81

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Boulder, Colorado

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# SOLAR-GEOPHYSICAL DATA

Number 677

(Issued in Two Parts)

Editor: Helen E. Coffey

Chief: Herbert W. Kroehl  
Solar-Terrestrial Physics Division

Staff: Edward H. Erwin

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Jul 00H $\alpha$  SOLAR FLARES

JULY 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0001	HOLL	01	0023	0031U	0046D	S19	E65	9067	07	6.0	230	SF	3	E		45		
0002	KANZ	01	0906	0906	0908	N22	W14		06	30.3	2	SF	2	C				
0003	RAMY	01	1157	1158	1202	N17	W71	9054	06	26.2	5	SF	3	E		13		F
0004		01	1236	1238	1256	N14	W74	9054	06	26.0	20	SF				39		F
	RAMY	01	1236	1238	1254	N15	W75	9054	06	25.9	18	SF	3	E		39		F
	KANZ	01	1241E	1241U	1257	N12	W73	9054	06	26.1	160	SF	2	C				
0005	HOLL	01	1348	1350	1356	S19	E71	9068	07	7.0	8	SF	3	E		22		
0006	RAMY	01	1516	1517	1520	N15	W77	9054	06	25.9	4	SF	3	E		16		
0007	HOLL	01	1638	1640	1644	S12	E75	9069	07	7.3	6	SF	3	E		61		
0008	HOLL	01	1809	1809	1817	S20	E74	9068	07	7.4	8	SF	3	E		47		
		01	1819		1830	No Flare Patrol												
0009	HOLL	01	2136	2137	2139	S18	E49	9067	07	5.6	3	SF	3	E		22		
0010	HOLL	01	2138	2138	2142	S19	E71	9068	07	7.3	4	SF	3	E		18		
0011	HOLL	01	2220	2221	2251	S19	E67	9068	07	7.0	31	SF	3	E		27		
0012	HOLL	01	2234	2234	2238	N14	E56	9066	07	6.2	4	SF	3	E		22		
0013	HOLL	01	2344	2346	2358	N15	E56	9066	07	6.2	14	SF	3	E		24		
0014		01	23493	23504	2356	S20	E46	9067	07	5.5	7	SF				28		
	HOLL	01	2349	2350	2353	S18	E47	9067	07	5.6	4	SF	3	E		28		
	LEAR	01	2352	2354	2359	S21	E46	9067	07	5.5	7	SF	2	E		27		
0015	LEAR	02	0453	0454	0457	S21	E67	9068	07	7.3	4	SF	3	E		12		
		02	0652		0657	No Flare Patrol												
0016	SVTO	02	0914	0915	0917	S24	E70	9068	07	7.8	3	SF	3	E		17		
0017	KANZ	02	0914	0915	0917	S20	E63	9068	07	7.2	3	SF	2	C				
		02	0954		1007	No Flare Patrol												
0018		02	12561	12571	1306	S20	E56	9068	07	6.8	10	SF				19		
	RAMY	02	1256	1258	1305	S21	E57	9068	07	6.9	9	SF	3	E		19		
	KANZ	02	1257	1257	1306	S18	E56	9068	07	6.8	9	SF	2	C				
0019	KANZ	02	1409	1409	1411	S20	E58	9068	07	7.0	2	SF	2	C				
0020		02	1539	15411	1550	N16	E72	9070	07	8.1	11	SF				32		
	RAMY	02	1539	1541	1551	N14	E74	9070	07	8.2	12	SF	3	E		32		
	KANZ	02	1539	1542	1549	N17	E71	9070	07	8.0	10	SF	2	C				
0021	RAMY	02	1641	1642	1651	S22	E56	9068	07	7.0	10	SF	3	E		14		
0022	HOLL	02	1719	1720	1722	S19	E57	9068	07	7.1	3	SF	3	E		22		
0023	HOLL	02	1758	1804	1819	S20	E58	9068	07	7.2	21	SF	3	E		57		
0024	HOLL	02	2034	2048	2057	S20	E57	9068	07	7.2	23	SF	3	E		16		
0025	HOLL	02	2124	2124	2136	S20	E57	9068	07	7.2	12	SF	3	E		20		
0026	HOLL	02	2314	2323	2331	N19	E71	9070	07	8.4	17	SF	3	E		60		
0027	HOLL	02	2332	2338	2505	N19	E72	9070	07	8.5	93	SF	3	E		54		FT
0028	HOLL	02	2337	2338	2348	S18	E53	9068	07	7.0	11	SF	3	E		17		

H $\alpha$  SOLAR FLARES

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Jul 00

JULY 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
								Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	
0029	LEAR	03	0044	0045	0050	N26	W37	9063	06	30.1	6	SF	3	E		16	
0030	LEAR	03	0419	0421	0426	N17	E69	9070	07	8.4	7	SF	3	E		18	FH
0031	KANZ	03	0903	0904	0929	S12	W31	9061	07	1.0	26	SF	2	C			
		03	1249		1316	No Flare Patrol											
0032	HOLL	03	1629	1630	1635	S14	W31	9062	07	1.3	6	SF	3	E		31	
0033	HOLL	03	1655	1701	1706	S13	W44	9061	06	30.4	11	SF	3	E		20	
0034	HOLL	03	2053	2054	2100	S17	E39	9068	07	6.8	7	SF	3	E		32	F
		03	2259		2318	No Flare Patrol											
		03	2322		2334	No Flare Patrol											
0035		04	00032	0038	0110	S16	W32	9062	07	1.6	67	1F				58	F
	LEAR	04	0003	0013U	0109	S15	W31	9062	07	1.6	66	SF	3	E		16	F
	HOLL	04	0005	0038	0111	S16	W32	9062	07	1.6	66	1F	3	E		100	
0036	HOLL	04	0015	0044	0101	S19	E39	9068	07	7.0	46	SF	3	E		22	
		04	0136		0431	No Flare Patrol											
0037		04	08196	08241	0829	S20	E34	9068	07	6.9	10	SF				44	F
	KANZ	04	0819	0824	0828	S20	E35	9068	07	7.0	9	SF	2	C			
	LEAR	04	0820	0825	0831	S20	E33	9068	07	6.9	11	SF	2	E		63	F
	SVTO	04	0825	0825	0829	S20	E35	9068	07	7.0	4	SF	3	E		26	F
0038	KANZ	04	1204	1206	1208	N22	E21	9065	07	6.1	4	SF	2	C			
0039	KANZ	04	1326	1326	1335	S19	E32	9068	07	7.0	9	SF	2	C			
0040		04	1345	1350	1355	N18	E46	9070	07	8.1	10	SF				32	
	RAMY	04	1345	1350	1354	N17	E45	9070	07	8.0	9	SF	3	E		32	
	KANZ	04	1345	1350	1356	N19	E46	9070	07	8.1	11	SF	2	C			
0041		04	14341	14373	1450	S18	W36	9062	07	1.9	16	SF				12	
	KANZ	04	1434	1437	1450	S17	W36	9062	07	1.9	16	SF	2	C			
	HOLL	04	1435	1440	1449	S18	W37	9062	07	1.8	14	SF	3	E		12	
0042		04	14571	1500	1509	S21	E32	9068	07	7.1	12	SF				53	
	KANZ	04	1457	1500	1505	S20	E32	9068	07	7.1	8	SF	2	C			
	HOLL	04	1458	1500	1507	S20	E33	9068	07	7.1	9	SF	3	E		52	
	RAMY	04	1458	1500	1516	S22	E31	9068	07	7.0	18	SF	3	E		54	
0043		04	1510	1511	1516	S20	E32	9068	07	7.1	6	SF				12	
	KANZ	04	1510	1511	1515	S21	E31	9068	07	7.0	5	SF	2	C			
	HOLL	04	1510	1511	1516	S20	E33	9068	07	7.1	6	SF	3	E		12	
0044		04	15101	1525	1622	N18	E48	9070	07	8.3	72	SF				49	
	KANZ	04	1510	1521U	1521D	N18	E48	9070	07	8.3	11D	SF	2	C			
	RAMY	04	1511	1525	1622	N17	E49	9070	07	8.3	71	SF	3	E		49	
		04	1848		2011	No Flare Patrol											
		04	2021		2042	No Flare Patrol											
0045	HOLL	04	2141	2141	2154	N19	E46	9070	07	8.4	13	SF	3	E		32	
		04	2218		2400	No Flare Patrol											
		05	0041		0057	No Flare Patrol											
		05	0108		0520	No Flare Patrol											
		05	0715		0859	No Flare Patrol											
0046	HOLL	05	1346	1348	1358	N25	W70	9063	06	30.1	12	SF	3	E		20	
0047		05	16202	16221	1630	N22	W18	9071	07	4.3	10	SF				16	
	HOLL	05	1620	1622	1630	N22	W18	9071	07	4.3	10	SF	3	E		14	
	RAMY	05	1622	1623	1630	N23	W17	9071	07	4.4	8	SF	3	E		19	

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Jul 00H $\alpha$  SOLAR FLARES

JULY 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0048	RAMY	05	2001	2004	2010	N24	W19	9071	07	4.4	9	SF	3	E		26		
0049	RAMY	05	2039	2039	2044	N20	E32	9070	07	8.3	5	SF	3	E		23		H
		05	2109		2140	No Flare Patrol												
		05	2157		2400	No Flare Patrol												
		06	0000		0102	No Flare Patrol												
0050	LEAR	06	0256	0257	0300	S17	W64	9062	07	1.2	4	SF	3	E		15		
		06	0312		0320	No Flare Patrol												
		06	0338		0425	No Flare Patrol												
0051	LEAR	06	0531	0533	0539	N22	W25	9071	07	4.3	8	SF	3	E		19		
0052		06	09013	09082	0921	S20	E08	9068	07	7.0	20	SN				96	1.8	EF
	URUM	06	0901	0910	0922	S19	E09	9068	07	7.1	21	SN		C		161	1.8	E
	SVTO	06	0904	0908	0920	S20	E07	9068	07	6.9	16	SF	3	E		31		F
0053	RAMY	06	1222	1223	1226	N18	E25	9070	07	8.4	4	SF	3	E		12		
0054		06	13179	13283	1422	N19	E26	9070	07	8.5	65	SF				20		FH
	KANZ	06	1317	1328	1427	N18	E26	9070	07	8.5	70	SF	2	C				
	RAMY	06	1319	1330	1403	N17	E28	9070	07	8.7	44	SF	3	E		24		FH
	KANZ	06	1322	1330	1456	N21	E24	9070	07	8.4	94	SF	2	C				
	HOLL	06	1326	1331	1400	N19	E27	9070	07	8.6	34	SF	3	E		17		
0055	HOLL	06	1456	1457	1459	S15	W76	9061	06	30.9	3	SF	3	E		12		
0056	HOLL	06	1507	1509	1514	N19	E23	9070	07	8.4	7	SF	3	E		15		
0057	HOLL	06	1542	1543	1546	N19	E21	9070	07	8.2	4	SF	3	E		10		
0058	RAMY	06	1715	1715	1721	N19	E22	9070	07	8.4	6	SF	3	E		10		
0059	RAMY	06	1728	1728	1731	N18	E19	9070	07	8.2	3	SF	3	E		13		
0060	HOLL	06	1813	1821	1828	N18	E19	9070	07	8.2	15	SF	3	E		18		
0061	RAMY	06	1913	1918	1934	N18	E19	9070	07	8.2	21	SF	3	E		84		F
0062	RAMY	06	1935	1946	1952	N19	E20	9070	07	8.3	17	1F	3	E		107		FH
		06	1952		2303	No Flare Patrol												
0063		06	2311*	2350*	2417	N20	E16	9070	07	8.2	66	SF				56		F
	HOLL	06	2311	2350	2419	N20	E16	9070	07	8.2	68	SF	3	E		47		F
	LEAR	06	2355	2402	2415	N19	E16	9070	07	8.2	20	SF	3	E		66		
0064		07	00256	00315	0056	N19	E18	9070	07	8.4	31	1N				142	2.7	E
	URUM	07	0025	0036	0048	N18	E19	9070	07	8.5	23	1N		C		241	2.7	E
	HOLL	07	0031	0031	0104	N20	E17	9070	07	8.3	33	SF	3	E		43		
0065	LEAR	07	0132	0132	0137	N18	E19	9070	07	8.5	5	SF	3	E		18		
0066		07	0201	02052	0213	N19	E16	9070	07	8.3	12	1N				214	4.5	EF
	LEAR	07	0201	0205	0210	N18	E15	9070	07	8.2	9	SF	3	E		25		F
	URUM	07	0204E	0207	0216	N20	E16	9070	07	8.3	12D	1N		P		402	4.5	E
0067	LEAR	07	0303	0304	0307	N21	W37	9071	07	4.3	4	SF	3	E		15		
0068	LEAR	07	0330	0331	0341	N21	W38	9071	07	4.2	11	SF	3	E		16		
0069	URUM	07	0458E	0458	0502	N21	W38	9071	07	4.3	4D	SN		P		80	1.1	D
0070		07	05456	05533	0627	N22	W38	9071	07	4.3	42	SF				18		F
	LEAR	07	0545	0556	0655	N22	W39	9071	07	4.2	70	SF	3	E		27		F
	SVTO	07	0551	0553	0600	N23	W38	9071	07	4.3	9	SF	3	E		10		
	KANZ	07	0600E		0625	N21	W38	9071	07	4.3	25D	SF	2	C				



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0071		07	0553	0554	0600	N20	E12	9070	07	8.2	7	SF					12		
	LEAR	07	0553	0554	0600	N20	E12	9070	07	8.2	7	SF					12		
	KANZ	07	0600E		0600	N21	E12	9070	07	8.2	7D	SF							
0072		07	0849*	09163	0954	N16	E08	9070	07	8.0	65	SF					35		F
	KANZ	07	0849	0919	1003	N16	E10	9070	07	8.1	74	SF							
	LEAR	07	0857	0919	0942D	N17	E08	9070	07	8.0	45D	SN					41		F
	SVTO	07	0908	0918	0959	N17	E10	9070	07	8.1	51	SF					29		
	KANZ	07	0910	0916	0939	N12	E02	9070	07	7.5	29	SF							
0073	KANZ	07	0855	0922	0951	N17	E05	9070	07	7.7	56	SF							
0074	KANZ	07	1003	1003U	1012D	S21	W25	9067	07	5.5	9D	SF							
0075	URUM	07	1015	1027	1105	N17	W03	9072	07	7.2	50	SN					161	1.7	E
0076	KANZ	07	1032	1032	1035	N17	E10	9070	07	8.2	3	SF							
0077		07	10582	11011	1136	N22	W41	9071	07	4.3	38	SF					57		EFZ
	SVTO	07	1058	1101	1134	N22	W42	9071	07	4.2	36	SF					26		FZ
	KANZ	07	1058	1101	1136	N21	W41	9071	07	4.3	38	SF							
	RAMY	07	1100	1102	1139	N23	W41	9071	07	4.3	39	SN					88		FE
0078	URUM	07	1105	1120	1139	N20	W35	9071	07	4.8	34	1B					193	2.5	E
0079	KANZ	07	1350	1353	1359	N14	E43	9074	07	10.8	9	SF							
0080	KANZ	07	1356	1358	1415	N17	E05	9070	07	8.0	19	SF							
0081	KANZ	07	1508	1508	1524	N19	E07	9070	07	8.2	16	SF							
0082	RAMY	07	1537	1537	1547	N17	E08	9070	07	8.2	10	SF							
0083		07	15583	16003	1608	S20	W10	9068	07	6.9	10	SF							
	RAMY	07	1558	1600	1610	S20	W10	9068	07	6.9	12	SF							
	HOLL	07	1601	1603	1607	S20	W09	9068	07	7.0	6	SF							
0084	RAMY	07	1630	1636	1641	S20	W10	9068	07	6.9	11	SF							
0085		07	1635	1635	1644	N17	E07	9070	07	8.2	9	SF							
	HOLL	07	1635	1635	1643	N17	E06	9070	07	8.1	8	SF							
	RAMY	07	1635	1635	1644	N17	E08	9070	07	8.3	9	SF							
0086	RAMY	07	1639	1639	1648	N22	W46	9071	07	4.1	9	SF							
0087	HOLL	07	1704	1705	1714	N19	E07	9070	07	8.2	10	SF							
0088		07	1812	1821	1909	N22	W46	9071	07	4.2	57	1B							
	RAMY	07	1812	1818U	1819D	N22	W44	9071	07	4.4	7D	1B							
	HOLL	07	1812	1821	1909	N21	W47	9071	07	4.1	57	1B							
0089	HOLL	07	1931	1931	1938	N14	E40	9074	07	10.8	7	SF							
0090	HOLL	07	2017	2017	2025	N18	E02	9070	07	8.0	8	SF							
0091	HOLL	07	2029	2030	2036	N19	E00	9070	07	7.8	7	SF							
0092	HOLL	07	2154	2156	2201	S12	E70	9078	07	13.2	7	SF							
0093	HOLL	07	2213	2213	2223	N21	W51	9071	07	4.0	10	SF							
		07	2256		2332	No Flare Patrol													
		08	0000		0256	No Flare Patrol													
0094	LEAR	08	0025	0025	0033	N18	E02	9070	07	8.2	8	SF							
0095	LEAR	08	0129	0130	0133	N18	E00	9070	07	8.1	4	SF							
0096	LEAR	08	0154	0156	0203	N18	E00	9070	07	8.1	9	SF							

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
																Time (UT)	Apparent (10-6 Disk)	
0097	LEAR	08	0229	0229	0235	N18	E00	9070	07	8.1	6	SF		3	E	34		F
0098	LEAR	08	0238	0244	0307	N21	W53	9071	07	4.0	29	SF		3	E	28		
0099	LEAR	08	0310	0310	0314	S22	E18	9073	07	9.5	4	SF		3	E	24		F
0100	LEAR	08	0426	0428	0431	N18	W02	9070	07	8.0	5	SF		3	E	14		
0101	URUM	08	0521E	0521	0521D	N16	W05	9070	07	7.8	5D	SB			P	129	1.4	D
0102	LEAR	08	0630	0632	0636	S23	E16	9073	07	9.5	6	SF		3	E	27		
0103		08	0700*	0733	0748	N17	W06	9070	07	7.8	48	SN				96	1.0	EFH
	MITK	08	0700	0733	0735	N17	W07	9070	07	7.7	35	SN			0733	99	1.0	H
	SVTO	08	0732	0733	0746	N17	W05	9070	07	7.9	14	SF		2	E	55		F
	LEAR	08	0732	0733	0802	N17	W07	9070	07	7.8	30	1N		3	E	133		FE
0104	LEAR	08	0757	0800	0804	S22	E15	9073	07	9.5	7	SF		3	E	10		
0105		08	08248	0832	0839	S22	E14	9073	07	9.4	15	SF				36		H
	LEAR	08	0824	0832	0842	S22	E14	9073	07	9.4	18	SF		3	E	52		
	SVTO	08	0832	0832	0836	S21	E15	9073	07	9.5	4	SF		2	E	20		H
0106	URUM	08	1021	1041	1046	S19	E14	9073	07	9.5	25	SN			C	80	0.9	E
0107	RAMY	08	1123	1129	1133	S22	E12	9073	07	9.4	10	SF		3	E	11		
0108	RAMY	08	1135	1138	1143	S22	E13	9073	07	9.5	8	SF		3	E	24		
0109	RAMY	08	1125	1125	1130	N18	W03	9070	07	8.2	5	SF		3	E	16		
0110	RAMY	08	1203	1205	1207	S22	E13	9073	07	9.5	4	SF		3	E	16		
0111	RAMY	08	1305	1307	1315	S22	E12	9073	07	9.5	10	SN		3	E	67		
0112		08	1321	1326	1348	N17	W08	9070	07	7.9	27	1F				76		
	RAMY	08	1321	1326	1341	N17	W08	9070	07	7.9	20	1F		3	E	101		
	HOLL	08	1328E	1329U	1356	N17	W09	9070	07	7.9	28D	SF		3	E	50		
0113	HOLL	08	1328E	1344U	1358	S20	E09	9073	07	9.2	30D	SF		3	E	18		
0114		08	1408	14082	1420	N17	W07	9070	07	8.0	12	SF				22		
	HOLL	08	1408	1408	1419	N17	W07	9070	07	8.0	11	SF		3	E	19		
	RAMY	08	1408	1410	1420	N17	W07	9070	07	8.0	12	SF		3	E	26		
0115	HOLL	08	1420	1448	1458	S21	E11	9073	07	9.4	38	SF		3	E	96		
0116	HOLL	08	1456	1457	1501	N16	E61	9077	07	13.2	5	SF		3	E	13		
0117	HOLL	08	1501	1506	1512	N19	E78	9077	07	14.6	11	SF		3	E	19		
0118	HOLL	08	1502	1502	1512	S21	E11	9073	07	9.5	10	SF		3	E	10		
0119	HOLL	08	1517	1601	1611	S17	E05	9073	07	9.0	54	SF		3	E	47		
0120		08	15205	15223	1542	S17	W08	9069	07	8.0	22	SF				44		
	HOLL	08	1520	1522	1541	S17	W06	9069	07	8.2	21	SF		3	E	47		
	RAMY	08	1525	1525	1543	S17	W10	9069	07	7.9	18	SF		3	E	41		
0121	HOLL	08	1555	1555	1559	N19	E78	9077	07	14.6	4	SF		3	E	14		
0122		08	16253	16282	1717	N17	W08	9070	07	8.1	52	SF				72		
	HOLL	08	1625	1630	1717	N17	W09	9070	07	8.0	52	SF		3	E	58		
	RAMY	08	1628	1628	1630D	N17	W07	9070	07	8.1	2D	SF		3	E	87		
0123	HOLL	08	1626	1627	1632	N19	E77	9077	07	14.6	6	SF		3	E	16		
0124	HOLL	08	1728	1732	1736	N20	W59	9071	07	4.2	8	SF		3	E	22		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
						Region	Lat CMD								Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0125	RAMY	08	1747	1747	1752	S22 E09	9073	07	9.4	5	SF		3	E		16		
0126	HOLL	08	1813	1814	1820	S17 W08	9069	07	8.1	7	SF		3	E		15		
0127	HOLL	08	1846	1848	1854	S22 E10	9073	07	9.5	8	SF		3	E		19		
0128	HOLL	08	1908	1909	1926	N22 W06	9070	07	8.3	18	SF		3	E		25		
			08 2007		2055													No Flare Patrol
			08 2117		2151													No Flare Patrol
0129	HOLL	08	2137E	2206U	2223D	N18 E35	9074	07	11.6	46D	SF		3	E		37		
			08 2214		2221													No Flare Patrol
			08 2305		2327													No Flare Patrol
0130	LEAR	08	2328E	2432	2524	N18 W12	9070	07	8.1	116D	SF		3	E		90		FU
0131	URUM	09	0130	0134	0138	N19 W13	9070	07	8.1	8	1N			C		241	2.6	E
0132		09	02291	02331	0240	N18 E76	9077	07	14.9	11	SN					51		D
	LEAR	09	0229	0233	0243	N15 E74	9077	07	14.7	14	SF		3	E		54		
	URUM	09	0230	0234	0238	N21 E79	9077	07	15.2	8	SN			C		48		D
0133		09	04462	04503	0506	N18 W12	9070	07	8.3	20	SN					62	1.0	EF
	URUM	09	0446	0450	0506	N16 W12	9070	07	8.3	20	SN			C		96	1.0	E
	LEAR	09	0448	0453	0507	N19 W12	9070	07	8.3	19	SF		3	E		29		F
0134	URUM	09	0626E	0626	0638	N14 W18	9070	07	7.9	12D	SN			P		129	1.4	E
0135		09	06501	06552	0707	N16 E68	9077	07	14.4	17	SF					35		FH
	LEAR	09	0650	0655	0709	N16 E69	9077	07	14.5	19	SF		3	E		35		FH
	KANZ	09	0651	0657	0705	N17 E66	9077	07	14.3	14	SF		2	C				
0136		09	07111	07131	0716	N16 E69	9077	07	14.5	5	SF					22		FH
	LEAR	09	0711	0713	0716	N16 E69	9077	07	14.5	5	SF		3	E		22		FH
	KANZ	09	0712	0714	0715	N17 E69	9077	07	14.5	3	SF		2	C				
0137		09	07183	07243	0752	N17 E71	9077	07	14.7	34	1F					70		EFH
	URUM	09	0718	0726	0750	N16 E72	9077	07	14.8	32	1F			C		80		E
	KANZ	09	0719	0727	0810D	N17 E69	9077	07	14.5	51D	1F		2	C				
	SVTO	09	0721	0724	0755	N17 E71	9077	07	14.7	34	SF		3	E		60		FH
0138		09	08225	0831*	0912	N19 W15	9070	07	8.2	50	1N					260	4.4	EFH
	LEAR	09	0822	0848	0910	N19 W17	9070	07	8.0	48	1F		3	E		118		FH
	URUM	09	0827	0831	0915	N18 W15	9070	07	8.2	48	1B			C		402	4.4	E
	KANZ	09	0838E	0855U	0900D	N20 W13	9070	07	8.4	22D	1F		2	C				
0139	LEAR	09	0853	0854	0902	N16 E69	9077	07	14.6	9	SF		3	E		41		FH
			09 0943		0948													No Flare Patrol
			09 0956		1010													No Flare Patrol
			09 1014		1028													No Flare Patrol
0140	RAMY	09	1151	1215	1233	N16 E67	9077	07	14.6	42	SF		4	E		40		F
0141	KANZ	09	1507	1510	1520	N18 W18	9070	07	8.2	13	SF		2	C				
0142		09	15191	1520	1528	N18 E65	9077	07	14.6	9	SF					28		
	KANZ	09	1519	1520	1527	N19 E64	9077	07	14.5	8	SF		2	C				
	RAMY	09	1520	1520	1529	N17 E66	9077	07	14.6	9	SF		4	E		28		
0143	RAMY	09	1617	1619	1632	N16 E66	9077	07	14.7	15	SF		4	E		26		
0144	RAMY	09	1731	1735	1741	N20 W20	9070	07	8.2	10	SF		4	E		24		F
0145	RAMY	09	1733	1733	1737	N15 E64	9077	07	14.6	4	SF		4	E		19		F
0146	RAMY	09	1757	1757	1802	N19 W22	9070	07	8.1	5	SF		4	E		15		

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Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
		09	1805		2112	No Flare Patrol											
0147	HOLL	09	2131	2143	2239	N19 E63 9077	07	14.7	68	SN		3	E		73		
0148	HOLL	09	2224	2226	2235	S18 W26 9069	07	7.9	11	SF		3	E		47		
0149	HOLL	09	2226	2226	2234	N14 W52 9066	07	6.0	8	SF		3	E		12		
0150	HOLL	09	2244	2257	2310	N18 E60 9077	07	14.5	26	SF		3	E		33		
0151	URUM	09	2351	2355	2530	N18 W11 9070	07	9.1	99	SN			C		161	1.7	E
		10	0023		0038	No Flare Patrol											
0152		10	01072	01073	0128	N18 E60 9077	07	14.6	21	SN					43	0.8	D
	URUM	10	0107E	0107	0127	N18 E62 9077	07	14.8	20D	SB			P		32	0.7	D
	LEAR	10	0107	0110	0140	N17 E58 9077	07	14.4	33	SN		3	E		48		
	MITK	10	0109	0110	0118	N18 E59 9077	07	14.5	9	SN				0110	49	1.0	D
0153	LEAR	10	0220	0222	0252	N19 W27 9070	07	8.0	32	SF		3	E		15		
0154	LEAR	10	0242	0243	0316	N18 E56 9077	07	14.4	34	SF		3	E		27		
0155	LEAR	10	0301	0306	0322	S18 W26 9069	07	8.1	21	SF		3	E		22		
0156	LEAR	10	0317	0319	0321	N18 E40 9077	07	13.2	4	SF		3	E		42		
0157	LEAR	10	0322	0322	0331	N17 E58 9077	07	14.5	9	SF		3	E		17		
0158	LEAR	10	0335	0338	0340	N18 E40 9077	07	13.2	5	SF		3	E		15		
0159	SVTO	10	0526	0526	0540	N17 E56 9077	07	14.5	14	SF		3	E		13		
0160		10	07541	07562	0804	N18 W30 9070	07	8.0	10	SF					16		F
	LEAR	10	0754	0758	0804	N18 W30 9070	07	8.0	10	SF		3	E		16		F
	KANZ	10	0755	0756	0805	N18 W31 9070	07	8.0	10	SF		2	C				
0161	URUM	10	0830	0834	0842	S17 W31 9069	07	8.0	12	1F			C		193	2.5	E
0162	LEAR	10	0833	0835	0847	S20 W47 9068	07	6.8	14	SF		3	E		27		
0163		10	09494	0953	0957	S18 W32 9069	07	8.0	8	SF					13		
	SVTO	10	0949	0951U	0958	S18 W33 9069	07	7.9	9	SF		3	E		13		
	KANZ	10	0953	0953	0956	S18 W32 9069	07	8.0	3	SF		2	C				
0164		10	10331	1103	1129	N17 E53 9077	07	14.5	56	SF					102		F
	KANZ	10	1033	1103	1130D	N18 E53 9077	07	14.5	57D	SF		2	C				
	SVTO	10	1034	1048U	1129	N18 E53 9077	07	14.5	55	SF		3	E		69		
	RAMY	10	1106E	1110U	1145D	N16 E53 9077	07	14.5	39D	1F		2	E		136		F
0165	SVTO	10	1132	1134	1137	N18 E34 9077	07	13.1	5	SF		3	E		13		
0166		10	1144	11442	1154	S22 W14 9073	07	9.4	10	SF					42	0.8	D
	URUM	10	1144E	1144	1144D	S22 W13 9073	07	9.5	10D	SF			P		64	0.8	D
	RAMY	10	1144	1146	1154	S21 W14 9073	07	9.4	10	SF		3	E		21		
0167	RAMY	10	1152	1153	1157	S16 W35 9069	07	7.8	5	SF		3	E		16		
0168	RAMY	10	1224	1224	1234	N17 E54 9077	07	14.6	10	SF		3	E		15		
0169	SVTO	10	1243	1251	1257	N25 E63 9080	07	15.4	14	SF		3	E		21		
0170		10	1355*	14225	1533	N17 E52 9077	07	14.5	98	SN					133		FH
	HOLL	10	1355	1427	1623	N18 E52 9077	07	14.5	148	1N		3	E		226		
	RAMY	10	1419	1426	1509	N16 E52 9077	07	14.5	50	SN		3	E		98		FH
	SVTO	10	1420	1422	1506	N18 E52 9077	07	14.5	46	SF		3	E		75		F
0171	RAMY	10	1447	1450	1502	N20 W33 9070	07	8.1	15	SF		3	E		21		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0172	RAMY	10	1509	1515	1528	N16	E54	9077	07	14.7	19	SF		3	E		26		H	
0173	HOLL	10	1514	1516	1522	N15	W77	9066	07	4.8	8	SF		3	E		37			
0174	RAMY	10	1516	1518	1522	N15	W57	9066	07	6.3	6	SF		3	E		15			
0175		10	15339	1548	1553	S18	W34	9069	07	8.0	20	SF					22			
	HOLL	10	1533	1548	1553	S18	W31	9069	07	8.3	20	SF		3	E		24			
	RAMY	10	1542	1548	1553	S17	W36	9069	07	7.9	11	SF		3	E		19			
0176		10	16435	16491	1701	N15	W61	9066	07	6.1	18	SF					31		FH	
	RAMY	10	1643	1649	1702	N15	W57	9066	07	6.4	19	SF		3	E		58		FH	
	HOLL	10	1647	1650	1701	N15	W68	9066	07	5.5	14	SF		3	E		22			
	SVTO	10	1648	1649	1659	N15	W59	9066	07	6.2	11	SF		3	E		14			
0177	HOLL	10	1651	1702	1707	N17	E29	9077	07	12.9	16	SF		3	E		18		F	
0178	HOLL	10	1702	1707	1716	N17	W37	9070	07	7.9	14	SF		3	E		10			
0179	HOLL	10	1732	1738	1754	N17	E28	9077	07	12.8	22	SF		3	E		22			
0180	RAMY	10	1733	1735	1746	N16	E51	9077	07	14.6	13	SF		3	E		32		F	
0181	RAMY	10	1813	1816	1824	N54	E77	9077	07	17.4	11	SF		3	E		13			
0182	RAMY	10	1827	1849	1907	N16	E52	9077	07	14.7	40	SF		3	E		91		FH	
0183	RAMY	10	1832	1838	1920	S18	W32	9069	07	8.3	48	1N		3	E		151		FH	
0184	RAMY	10	1905	1911	1920	N17	W43	9070	07	7.5	15	SF		3	E		16		FH	
0185	RAMY	10	1908	1918	2000	N16	E50	9077	07	14.6	52	SF		3	E		30			
0186	RAMY	10	1957	2002	2052	N16	W43	9070	07	7.6	55	SB		3	E		87		FH	
0187	RAMY	10	1958	2010	2019	N16	W59	9066	07	6.3	21	SF		3	E		25			
0188	RAMY	10	1959	2000	2023	S17	W47	9068	07	7.3	24	SF		3	E		12			
0189	RAMY	10	2109E	2110U	2223D	N19	E49	9077	07	14.6	74D	SF		3	E		84			
0190	HOLL	10	2132E	2138U	2446	N18	E49	9077	07	14.6	194D	2B		3	E		540		HU	
		10	2251		2326	No Flare Patrol														
0191	MITK	10	2348	2349	2350	N16	W43	9070	07	7.7	2	SN					2349	28	0.4	D
0192	URUM	11	0140E	0140	0200	S17	W50	9068	07	7.3	20D	SN			P		80	1.4	E	
0193	LEAR	11	0322E	0347	0545	N18	W44	9070	07	7.8	143D	SF		3	E		86		F	
0194	LEAR	11	0330E	0335U	0344D	N19	W57	9070	07	6.8	14D	SF		2	E		60		F	
0195		11	04465	04535	0513	N17	W46	9070	07	7.7	27	SN					93	1.2	DE	
	SVTO	11	0430E	0457	0526	N17	W47	9070	07	7.6	56D	1N		3	E		116			
	URUM	11	0446	0453	0453D	N17	W43	9070	07	7.9	7D	SF			P		129	1.9	E	
	MITK	11	0451	0458	0500	N16	W47	9070	07	7.6	9	SN				0458	35	0.5	D	
0196		11	0447*	0457*	0508	N18	E46	9077	07	14.7	21	SF					30			
	SVTO	11	0447	0457	0505	N18	E46	9077	07	14.7	18	SF		3	E		25			
	SVTO	11	0506	0508	0510	N18	E46	9077	07	14.7	4	SF		3	E		34			
0197		11	0617	06172	0631	N18	W41	9070	07	8.1	14	SF					25		F	
	SVTO	11	0617	0617	0627	N18	W41	9070	07	8.1	10	SF		3	E		11		F	
	LEAR	11	0617	0619	0635	N19	W41	9070	07	8.1	18	SF		3	E		39		F	
0198		11	0617*	06481	0655	N18	E44	9077	07	14.6	38	SF					61	0.1	DF	
	SVTO	11	0617	0648	0657	N18	E44	9077	07	14.6	40	SF		3	E		87			
	LEAR	11	0617	0648	0659	N18	E45	9077	07	14.7	42	SF		3	E		88		F	
	MITK	11	0649	0649	0650	N19	E42	9077	07	14.5	1	SN				0649	7	0.1	D	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0199		11	07128	0713*	0722	N11	W72	9066	07	5.9	10	SF					17			
	SVTO	11	0712	0713	0718	N13	W68	9066	07	6.2	6	SF		3	E		14			
	SVTO	11	0720	0723	0727	N09	W75	9066	07	5.7	7	SF		3	E		20			
0200	SVTO	11	0715	0719	0723	N21	E58	9084	07	15.7	8	SF		3	E		13			
0201	SVTO	11	0748	0756	0804	N17	W49	9070	07	7.6	16	SF		3	E		34			F
0202	LEAR	11	0750	0757	0814	N19	W41	9070	07	8.2	24	SF		3	E		32			FH
0203	SVTO	11	0805	0828	0847	N19	E38	9077	07	14.2	42	SF		3	E		44			
0204		11	08211	08232	0836	S17	W24	9073	07	9.5	15	SF					28			F
	LEAR	11	0821	0823	0836	S17	W24	9073	07	9.5	15	SF		3	E		39			F
	SVTO	11	0822	0825	0835	S17	W24	9073	07	9.5	13	SF		3	E		18			
0205	SVTO	11	0854	0857	0906	N18	E22	9077	07	13.0	12	SF		3	E		14			
0206	SVTO	11	1036	1037	1040	N03	E73	9081	07	16.9	4	SF		3	E		10			
0207	SVTO	11	1044	1048	1050	N03	E73	9081	07	16.9	6	SF		3	E		14			
0208	SVTO	11	1111	1115	1122	N03	E74	9081	07	17.0	11	SF		3	E		21			
0209	RAMY	11	1129	1130	1135	N18	W50	9070	07	7.7	6	SN		3	E		43			
0210		11	11331	1140	1646	N16	E39	9077	07	14.4	313	1B					203			FU
	RAMY	11	1133	1140	1836	N16	E40	9077	07	14.5	423	1B		3	E		238			FU
	SVTO	11	1134	1140	1455	N17	E38	9077	07	14.4	201	1B		3	E		168			
0211		11	12091	1211	1217	S18	W46	9069	07	8.0	8	SF					28			
	RAMY	11	1209	1211	1220	S17	W47	9069	07	7.9	11	SF		3	E		37			
	SVTO	11	1210	1211	1214	S18	W44	9069	07	8.1	4	SF		3	E		20			
0212	RAMY	11	1231	1231	1236	S18	W42	9069	07	8.3	5	SF		3	E		10			
0213	HOLL	11	1320E	1323U	1837	N18	E27	9077	07	13.6	317D	2N		3	E		514			FHU
0214	HOLL	11	1322E	1325	1335	N15	W56	9072	07	7.3	13D	SF		3	E		18			
0215		11	1325	13251	1329	S17	W46	9069	07	8.1	4	SF					34			
	SVTO	11	1325	1325	1329	S17	W47	9069	07	8.0	4	SF		3	E		21			
	RAMY	11	1325	1326	1329	S17	W47	9069	07	8.0	4	SF		3	E		35			
	HOLL	11	1325	1326	1330	S18	W43	9069	07	8.3	5	SF		3	E		47			
0216	HOLL	11	1334	1335	1338	S22	W61	9068	07	6.9	4	SF		3	E		20			
0217	HOLL	11	1338	1340	1348	S22	W61	9068	07	6.9	10	SF		3	E		31			
0218	HOLL	11	1334	1335	1338	S21	W78	9067	07	5.6	4	SF		3	E		20			
0219	HOLL	11	1338	1340	1348	S21	W78	9067	07	5.6	10	SF		3	E		31			
0220	HOLL	11	1407	1410	1413	N19	W44	9070	07	8.2	6	SF		3	E		18			
0221	RAMY	11	1532	1533	1537	S18	W66	9068	07	6.6	5	SF		3	E		11			
0222		11	1538	15392	1548	S17	W48	9069	07	8.0	10	SF					48			
	RAMY	11	1538	1539	1545	S16	W48	9069	07	8.0	7	SF		3	E		37			
	HOLL	11	1538	1541	1551	S18	W48	9069	07	8.0	13	SF		3	E		58			
0223	SVTO	11	1556	1603	1609	N18	E18	9077	07	13.0	13	SF		2	E		14			
0224	HOLL	11	1557	1605	1622	S20	W58	9068	07	7.2	25	SF		3	E		40			
0225	HOLL	11	1625	1627	1658	S21	W58	9068	07	7.2	33	SF		3	E		40			
0226	HOLL	11	1658	1700	1703	N20	W65	9065	07	6.7	5	SF		3	E		15			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks				
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)					
0227	HOLL	11	1706	1708	1715	N20	W65	9065	07	6.7	9	SF		3	E		18						
0228		11	1716	17161	1736	S20	W30	9073	07	9.4	20	SF					32		F				
	HOLL	11	1716	1716	1740	S20	W30	9073	07	9.4	24	SF		3	E		24		F				
	RAMY	11	1716	1717	1732	S19	W31	9073	07	9.3	16	SF		3	E		39						
0229		11	1733	1733	1743	S18	W32	9073	07	9.3	10	SF					23						
	RAMY	11	1733	1733	1742	S18	W34	9073	07	9.1	9	SF		3	E		16						
	RAMY	11	1733	1733	1744	S19	W30	9073	07	9.4	11	SF		3	E		30						
0230	HOLL	11	1809	1817	1828	S18	W49	9069	07	8.0	19	SF		3	E		20		F				
0231	RAMY	11	1831	1837	1848	N18	W49	9070	07	8.0	17	SF		3	E		20						
0232		11	1848	18493	1928	S20	W32	9073	07	9.3	40	SF					66						
	HOLL	11	1848	1849	1926	S20	W31	9073	07	9.4	38	SF		3	E		77						
	RAMY	11	1848	1852	1929	S19	W33	9073	07	9.3	41	SF		3	E		56						
0233	RAMY	11	1849	1854	1909	N19	W43	9070	07	8.5	20	SF		3	E		66						
0234	HOLL	11	1849	1900	1929	N16	W56	9070	07	7.5	40	1N		3	E		151		F				
0235	RAMY	11	1903	1903	1915	N16	E33	9077	07	14.3	12	SF		3	E		18						
0236	HOLL	11	1921	1925	1945	N17	E28	9077	07	13.9	24	SF		3	E		44						
0237	HOLL	11	2032	2037	2057	S21	W45	9069	07	8.4	25	SF		3	E		70						
0238	HOLL	11	2039	2105	2150	N17	W57	9070	07	7.5	71	SF		3	E		58						
0239	HOLL	11	2103	2104	2120	S18	W47	9069	07	8.3	17	SF		3	E		16						
0240	HOLL	11	2129	2133	2142	S18	W47	9069	07	8.3	13	SF		3	E		44						
0241	HOLL	11	2143	2150	2214	S18	W47	9069	07	8.3	31	SF		3	E		23						
																					11 2240	2338	No Flare Patrol
																					11 2354	2400	No Flare Patrol
																					12 0000	0109	No Flare Patrol

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0255		12	1136	1140	1150	N18	W64	9070	07	7.6	14	SF					40		
	RAMY	12	1136	1140	1148	N19	W63	9070	07	7.7	12	SF		3	E		31		
	SVTO	12	1139E	1139U	1151	N17	W65	9070	07	7.5	12D	SF		3	E		48		
0256	SVTO	12	1148	1149	1157	N17	E18	9077	07	13.8	9	SF		3	E		39		
0257	SVTO	12	1157	1158	1205	N18	W66	9070	07	7.5	8	SF		3	E		32		
0258	SVTO	12	1207	1211	1212	N17	E18	9077	07	13.9	5	SF		3	E		24		
0259	SVTO	12	1216	1219	1224	N17	E18	9077	07	13.9	8	SF		3	E		21		
0260	SVTO	12	1224	1227	1230	N19	W61	9070	07	7.9	6	SF		3	E		34		
0261	SVTO	12	1304	1304	1307	N18	W66	9070	07	7.5	3	SF		3	E		12		
0262		12	1347*	1401*	1413	N19	W64	9070	07	7.7	26	SF					49		
	RAMY	12	1347	1545	1636D	N19	W67	9070	07	7.5	169D	SF		3	E		78		
	SVTO	12	1358	1401	1413	N19	W62	9070	07	7.8	15	SF		3	E		20		
0263	RAMY	12	1408	1408	1412	N17	E31	9077	07	14.9	4	SF		3	E		36		
0264		12	1630	1634	1643	N18	E28	9077	07	14.8	13	SF					56		F
	HOLL	12	1618E	1624U	1734D	N20	E27	9077	07	14.7	76D	SF		3	E		77		
	SVTO	12	1630	1634	1643	N18	E27	9077	07	14.7	13	SF		3	E		33		F
	RAMY	12	1631E	1631U	1636D	N17	E29	9077	07	14.9	5D	SF		3	E		57		F
0265		12	1630	1646	1727	N17	W68	9070	07	7.5	57	SF					78		F
	HOLL	12	1610E	1643U	1735D	N16	W68	9070	07	7.5	85D	SF		3	E		69		
	SVTO	12	1630	1646	1727	N18	W68	9070	07	7.5	57	SF		3	E		87		F
0266	SVTO	12	1718	1718	1722	S18	W62	9069	07	8.0	4	SF		3	E		28		
		12	1735		1740	No Flare Patrol													
0267	HOLL	12	1743E	1743U	1913D	N19	E27	9077	07	14.8	90D	SF		3	E		70		
0268	HOLL	12	1744E	1746U	1751D	N16	W59	9070	07	8.3	7D	SF		3	E		25		
0269	HOLL	12	1804	1808	1815	N22	E40	9080	07	15.8	11	SF		3	E		14		
		12	1820		1852	No Flare Patrol													
0270	HOLL	12	1848E	1848U	1957D	N16	W64	9070	07	7.9	69D	2F		3	E		264		
		12	1930		1955	No Flare Patrol													
0271	HOLL	12	2009	2013	2016	N17	W65	9070	07	7.9	7	SF		3	E		13		F
0272	HOLL	12	2019E	2024U	2151D	N17	W66	9070	07	7.8	92D	SF		3	E		36		
0273	HOLL	12	2022	2024	2038	N15	E76	9085	07	18.6	16	SF		3	E		51		
		12	2102		2148	No Flare Patrol													
0274	HOLL	12	2150E	2200U	2221	N18	E27	9077	07	15.0	31D	SF		3	E		47		
		12	2223		2400	No Flare Patrol													
		13	0000		0126	No Flare Patrol													
0275	URUM	13	0202	0205	0207D	S16	W71	9069	07	7.7	5D	SB			P		32		D
0276	SVTO	13	0430	0430	0436	N15	E71	9085	07	18.6	6	SF		3	E		40		
0277		13	04452	04481	0455	N20	W72	9070	07	7.7	10	SN					40		D
	URUM	13	0445	0449	0449D	N20	W73	9070	07	7.6	4D	SB			P		32		D
	SVTO	13	0447	0448	0455	N19	W70	9070	07	7.8	8	SF		3	E		48		
0278	SVTO	13	0453	0510	0517	N15	E71	9085	07	18.6	24	SF		3	E		36		



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region	Lat									Cmd	Apparent (10-6 Disk)	
0279	SVTO	13	0505	0506	0511	N17	W80	9070	07	7.1	6	SF	3	E		34		
0280	SVTO	13	0518	0519	0526	N18	W78	9070	07	7.3	8	SF	3	E		25		
0281	SVTO	13	0522	0523	0530	S17	W76	9069	07	7.4	8	SF	3	E		26		
0282	SVTO	13	0524	0532	0546	N12	E65	9085	07	18.1	22	SF	3	E		56		
0283	SVTO	13	0536	0540	0544	N03	E50	9081	07	17.0	8	SF	3	E		52		
0284	SVTO	13	0555	0557	0621	N03	E50	9081	07	17.0	26	SF	3	E		52		
0285	SVTO	13	0557	0604	0609	N12	E65	9085	07	18.1	12	SF	3	E		56		
0286	SVTO	13	0610	0627	0642	N12	E65	9085	07	18.1	32	SF	3	E		25		
0287	SVTO	13	0611	0612	0628	N19	W66	9070	07	8.2	17	SF	3	E		27		
0288	SVTO	13	0631	0640	0705	N19	W66	9070	07	8.2	34	SF	3	E		53		H
0289	SVTO	13	0703E	0704U	0734D	N19	E32	9084	07	15.7	31D	SF	3	E		60		
0290	SVTO	13	0708	0709	0715	N03	E49	9081	07	16.9	7	SF	3	E		62		
0291	SVTO	13	0708E	0817U	0849	N12	E64	9085	07	18.1	101D	SF	3	E		57		
			13 0735		0939	No Flare Patrol												
0292	SVTO	13	0816E	0816U	0822	N03	E49	9081	07	17.0	6D	SF	3	E		12		
0293		13	1058	1100	1129	N16	E14	9077	07	14.5	31	SF				19		
	RAMY	13	1058	1100	1129	N15	E15	9077	07	14.6	31	SF	3	E		19		
	KANZ	13	1059E		1103D	N16	E14	9077	07	14.5	4D	SF	2	C				
0294	RAMY	13	1114	1115	1128	N13	E67	9085	07	18.5	14	SF	3	E		17		H
0295	RAMY	13	1117	1122	1151	N20	W73	9070	07	7.9	34	SF	3	E		35		FH
0296	RAMY	13	1129	1130	1144	N25	E33	9084	07	16.0	15	SF	3	E		27		
0297	RAMY	13	1143	1153	1222	N15	E17	9077	07	14.8	39	SF	3	E		12		
0298	RAMY	13	1153	1211	1217	N20	W73	9070	07	7.9	24	SF	3	E		60		FH
0299	RAMY	13	1209	1217	1305	N13	E68	9085	07	18.6	56	SF	3	E		88		F
0300	RAMY	13	1215	1217	1221	N01	E50	9081	07	17.2	6	SF	3	E		15		
0301	RAMY	13	1306	1307	1325	N13	E68	9085	07	18.7	19	SF	3	E		37		FH
0302		13	1311	1434	1500	N19	E06	9077	07	14.0	109	SF				42		FH
	RAMY	13	1311	1434	1502	N19	E07	9077	07	14.1	111	SF	3	E		45		
	SVTO	13	1323E	1332U	1459	N19	E06	9077	07	14.0	96D	SF	3	E		39		FH
0303	RAMY	13	1352	1354	1359	N01	E49	9081	07	17.2	7	SF	3	E		43		
0304	RAMY	13	1400	1401	1405	N20	W74	9070	07	7.9	5	SF	3	E		18		H
0305	RAMY	13	1357	1401	1407	N12	E67	9085	07	18.6	10	SF	3	E		23		
0306	RAMY	13	1413	1414	1417	N13	E67	9085	07	18.6	4	SF	3	E		14		
0307	RAMY	13	1424	1448	1453	N20	W74	9070	07	7.9	29	SF	3	E		35		
0308	RAMY	13	1506	1507	1513	N19	W78	9070	07	7.7	7	SF	3	E		19		
0309	RAMY	13	1515	1515	1523	N13	E66	9085	07	18.6	8	SF	3	E		11		
0310	RAMY	13	1521	1526	1531	N19	W79	9070	07	7.6	10	SF	3	E		45		H

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks		
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0311	RAMY	13	1530	1532	1541	N13	E66	9085	07	18.6	11	SF		3	E		18				
0312	RAMY	13	1541	1546	1601	N20	E28	9084	07	15.8	20	SF		3	E		35			F	
0313	RAMY	13	1548	1557	1611	N19	W78	9070	07	7.7	23	SF		3	E		48			FH	
0314	RAMY	13	1549	1601	1631	N16	E09	9077	07	14.3	42	SF		3	E		28			FH	
0315		13	1605*	1612*	1635	N13	E67	9085	07	18.7	30	SF					76			FH	
	RAMY	13	1605	1612	1645	N13	E65	9085	07	18.6	40	1N		3	E		125			FH	
	SVTO	13	1608	1612	1621	N14	E66	9085	07	18.7	13	SF		3	E		72				
	SVTO	13	1626	1632	1638	N12	E69	9085	07	18.9	12	SF		3	E		31				
0316		13	16124	16221	1718	N20	W76	9070	07	7.9	66	1N					170			FH	
	RAMY	13	1612	1623	1745	N20	W76	9070	07	7.9	93	1B		3	E		233			FH	
	SVTO	13	1616	1622	1650	N19	W75	9070	07	7.9	34	1F		3	E		107				
0317	RAMY	13	1656	1702	1705	N01	E47	9081	07	17.2	9	SF		3	E		10				
0318	RAMY	13	1700	1700	1712	N16	E11	9077	07	14.5	12	SF		3	E		13				
0319	SVTO	13	1706	1709	1713	N19	W73	9070	07	8.1	7	SF		3	E		15				
0320	RAMY	13	1715	1723	1735	N12	E63	9085	07	18.5	20	SF		3	E		43				
0321	RAMY	13	1742	1742	1746	N12	E65	9085	07	18.6	4	SF		3	E		11				
0322	RAMY	13	1752	1758	1815	N19	W82	9070	07	7.5	23	1N		3	E		106			FH	
0323	RAMY	13	1813	1815	1907	N16	E10	9077	07	14.5	54	SF		3	E		57			F	
0324	RAMY	13	1835	1836	1840	N20	W75	9070	07	8.0	5	SF		3	E		16			F	
0325	HOLL	13	1846	1855U	1934	N18	E08	9077	07	14.4	48	1F		1	E		137				
0326	RAMY	13	1853	1853	1856	N20	W77	9070	07	7.9	3	SF		3	E		15				
0327	RAMY	13	1858	1906	1910	N20	W77	9070	07	7.9	12	SF		3	E		66				
0328	HOLL	13	1922	1922	1928	N16	E62	9085	07	18.5	6	SF		3	E		29				
0329	RAMY	13	1944	1944	1948	N19	W81	9070	07	7.6	4	SF		3	E		31				
			2003		2022		No Flare Patrol														
			2028		2039		No Flare Patrol														
			2047		2057		No Flare Patrol														
			2126		2153		No Flare Patrol														
			2207		2400		No Flare Patrol														
			0000		0142		No Flare Patrol														
0330	URUM	14	0408	0412	0442	N18	W03	9077	07	13.9	34	SB			C		161	1.7		E	
0331	LEAR	14	0430E	0447U	0520	N20	W02	9077	07	14.0	50D	SF		2	E		97			F	
			0524		0603		No Flare Patrol														
0332	SVTO	14	0735	0746	0811	N16	E02	9077	07	14.5	36	SF		3	E		52			F	
0333	LEAR	14	0802E	0816U	0900D	N17	W01	9077	07	14.2	58D	1F		3	E		141			F	
0334	LEAR	14	0809	0828	0900D	N14	E53	9085	07	18.3	51D	1F		3	E		101			EF	
			0914		0927		No Flare Patrol														
			0941		1019		No Flare Patrol														
0335	SVTO	14	1012E	1021U	1146	N22	W07	9077	07	13.9	94D	3B		3	E		656			U	
0336	RAMY	14	1053E	1102U	1330	N17	E01	9077	07	14.5	157D	2B		3	E		319			U	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0337	RAMY	14	1102	1103	1231	N18	E14	9084	07	15.5	89	SF		3	E			45		
0338	RAMY	14	1102E	1104U	1136	S19	W69	9073	07	9.2	34D	SF		3	E			29		
0339	RAMY	14	1102E	1106U	1143	S17	W79	9069	07	8.4	41D	SF		3	E			67		
0340	SVTO	14	1254E	1256U	1317	S09	W01	9002	07	14.5	23D	SF		3	E			40		
0341	RAMY	14	1300	1300	1337	N12	E50	9085	07	18.3	37	SF		3	E			96		
0342	SVTO	14	1346	1350U	1424D	N20	W08	9077	07	14.0	38D	1N		3	E			234	HU	
			14 1431		1445	No Flare Patrol														
			14 1455		1542	No Flare Patrol														
0343		14	15522	15577	1636	N14	E50	9085	07	18.4	44	SF						50		
	RAMY	14	1552	1557	1640	N13	E50	9085	07	18.4	48	SF		3	E			59		
	HOLL	14	1554	1604	1633	N16	E50	9085	07	18.4	39	SF		3	E			42		
0344		14	16373	16411	1706	S10	W03	9082	07	14.5	29	1F						90		
	HOLL	14	1637	1641	1706	S09	W02	9082	07	14.5	29	SF		3	E			67		
	RAMY	14	1640	1642	1707	S12	W04	9082	07	14.4	27	1F		3	E			112		
0345	RAMY	14	1710	1712	1713	S10	W04	9082	07	14.4	3	SF		3	E			11		
0346		14	1641*	1657	1713	N14	E50	9085	07	18.5	32	SF						45		
	HOLL	14	1641	1657	1713	N16	E49	9085	07	18.4	32	SF		3	E			33		
	RAMY	14	1652	1657	1713	N13	E50	9085	07	18.5	21	SF		3	E			57		
0347	HOLL	14	1845	1847	1909	N19	E33	9088	07	17.3	24	SF		3	E			35	F	
0348	HOLL	14	1914	1920	1936	N22	E12	9084	07	15.7	22	SF		3	E			114	H	
0349	HOLL	14	1926	1931	1942	N16	W03	9077	07	14.6	16	SF		3	E			21	F	
0350	HOLL	14	2030	2034	2042	S11	W02	9082	07	14.7	12	SF		3	E			16	F	
			14 2324		2331	No Flare Patrol														
0351	LEAR	14	2358	2410	2418	N14	E45	9085	07	18.4	20	SF		3	E			17		
0352	LEAR	15	0042	0046	0053	N14	E47	9085	07	18.6	11	SF		3	E			20		
0353	LEAR	15	0120	0121	0131	N14	E45	9085	07	18.4	11	SF		3	E			44	F	
0354	LEAR	15	0251	0252	0259	N16	W10	9077	07	14.4	8	SF		3	E			12	F	
0355	LEAR	15	0344	0347	0418	N17	W11	9077	07	14.3	34	SF		3	E			33	F	
0356	LEAR	15	0418	0418	0423	N16	W11	9077	07	14.3	5	SF		3	E			15	F	
0357	LEAR	15	0512	0512	0533	N18	W13	9077	07	14.2	21	SF		3	E			38		
0358	LEAR	15	0526	0541	0609	S13	W23	9078	07	13.5	43	SF		3	E			25		
0359	LEAR	15	0610	0612	0614	S13	W23	9078	07	13.5	4	SF		3	E			20		
0360	LEAR	15	0555	0601	0641	S09	W13	9082	07	14.3	46	1F		3	E			105		
0361	LEAR	15	0720	0720	0724	S13	E67	9087	07	20.4	4	SF		3	E			30		
0362	LEAR	15	0754	0800	0826	S10	E62	9087	07	20.0	32	SF		3	E			67		
0363	LEAR	15	0822	0826	0908D	N16	W12	9077	07	14.4	46D	SF		3	E			86		
			15 0833		0905	No Flare Patrol														
			15 0946		0954	No Flare Patrol														
0364	KHAR	15	0955E		1002	S24	W90	9073	07	8.4	7D	SN		2	P	0955		80	DL	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/ USAF			Dur (Min)	Imp Opt	Xray	Obs See	Obs Type	Time (UT)	Area Measurement		Remarks	
						Lat	CMD	Region							Mo	Day		Apparent (10-6 Disk)
0365	KHAR	15	1007	1019	1030	S19	W90	9073	07	8.5	23	1N	2	P	1007	210		LO
0366	KHAR	15	1110	1115	1120	S24	W90	9073	07	8.5	10	SF	2	V				L
0367	KHAR	15	1120U	1122	1130	N22	E02	9084	07	15.6	10U	SF	2	P	1125	30	0.3	DL
0368	RAMY	15	1405	1410	1421	N17	W14	9077	07	14.5	16	SF	3	E		30		
0369	RAMY	15	1432	1437	1444	S09	W18	9082	07	14.2	12	SF	3	E		22		F
0370	RAMY	15	1551	1555	1602	S13	E64	9087	07	20.5	11	SF	3	E		12		
0371	RAMY	15	1724	1725	1734	N17	W20	9077	07	14.2	10	SF	3	E		19		
0372	HOLL	15	1803	1804	1812	N19	E20	9088	07	17.3	9	SF	3	E		16		
0373	HOLL	15	1830	1832	1847	N16	W16	9077	07	14.5	17	SF	3	E		22		
0374	HOLL	15	1853	1853	1857	S12	E61	9087	07	20.4	4	SF	3	E		23		
0375	RAMY	15	1915	1916	1924	S11	W35	9078	07	13.2	9	SF	3	E		20		
0376	RAMY	15	1919	1920	1923	N19	W24	9077	07	14.0	4	SF	3	E		20		
0377	HOLL	15	2036	2038	2041	S09	E57	9087	07	20.1	5	SF	3	E		14		
0378	HOLL	15	2039	2040	2043	N17	W18	9077	07	14.5	4	SF	3	E		20		F
0379	HOLL	15	2044	2046	2132	N16	E35	9085	07	18.5	48	SF	3	E		13		F
		15	2104		2106	No Flare Patrol												
0380	HOLL	15	2121	2123	2139	S12	E59	9087	07	20.3	18	SF	3	E		38		
0381	HOLL	15	2146	2146	2211	S09	W19	9082	07	14.5	25	SF	3	E		39		
0382	HOLL	15	2202	2205	2214	S08	E56	9087	07	20.1	12	SF	3	E		20		F
0383	HOLL	15	2216	2217	2232	S08	E55	9087	07	20.0	16	SF	3	E		68		FH
0384	HOLL	15	2258	2301	2317	S14	E60	9087	07	20.5	19	SF	3	E		84		
0385	HOLL	15	2313	2314	2328	N03	E16	9081	07	17.2	15	SF	3	E		33		
		16	0011		0031	No Flare Patrol												
0386	LEAR	16	0122E	0125	0147	S11	E53	9087	07	20.0	25D	1N	3	E		167		EF
0387	LEAR	16	0205	0205	0214D	N09	E81	9090	07	22.2	9D	1N	3	E		122		E
0388		16	0612	0612	0623	S08	W25	9082	07	14.4	11	SN				27	0.1	DFH
	SVTO	16	0610E	0610U	0633	S08	W25	9082	07	14.4	23D	SF	3	E		47		FH
	MITK	16	0612	0612	0613	S09	W25	9082	07	14.4	1	SN			0612	7	0.1	D
0389	MITK	16	0724	0725	0726	S08	W55	9078	07	12.2	2	SN			0725	86	1.6	D
0390	SVTO	16	0940	0941	0945	S09	E53	9087	07	20.4	5	SF	3	E		21		
		16	1016		1039	No Flare Patrol												
0391	RAMY	16	1158E	1158U	1204D	S12	E53	9087	07	20.5	6D	SF	2	E		23		
0392		16	1425	1429	1435	S13	E54	9087	07	20.7	10	SF				16		
	RAMY	16	1425	1429	1434	S15	E54	9087	07	20.7	9	SF	3	E		17		
	HOLL	16	1425	1429	1436	S11	E53	9087	07	20.6	11	SF	3	E		14		
0393		16	1429	14301	1438	N16	W39	9077	07	13.6	9	SF				28		
	RAMY	16	1429	1430	1438	N17	W39	9077	07	13.6	9	SF	3	E		29		
	HOLL	16	1429	1431	1437	N14	W39	9077	07	13.6	8	SF	3	E		28		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0394		16	1440	1440	1449	N14	E24	9085	07	18.4	9	SF					34		F
	RAMY	16	1440	1440	1449	N13	E25	9085	07	18.5	9	SF		3	E		38		
	HOLL	16	1440	1440	1449	N16	E23	9085	07	18.3	9	SF		3	E		30		F
0395	RAMY	16	1444	1444	1455	N19	E09	9088	07	17.3	11	SF		3	E		25		
0396	RAMY	16	1510	1510	1520	S13	E51	9087	07	20.5	10	SF		3	E		26		
0397		16	1522	1531	1552	N17	W30	9077	07	14.4	30	SF					42		F
	RAMY	16	1522	1531	1554	N18	W29	9077	07	14.4	32	SF		3	E		54		
	HOLL	16	1523	1531	1551	N16	W31	9077	07	14.3	28	SF		3	E		31		F
0398		16	1523	1534	1552	S10	E44	9087	07	19.9	29	SF					62		F
	HOLL	16	1523	1534	1551	S09	E45	9087	07	20.0	28	SF		3	E		48		F
	RAMY	16	1523	1535	1552	S12	E44	9087	07	19.9	29	SF		3	E		75		
0399	RAMY	16	1612	1612	1616	N12	E26	9085	07	18.6	4	SF		3	E		22		H
0400		16	1636	1639	1651	N18	W28	9077	07	14.5	15	SF					13		F
	HOLL	16	1636	1641	1651	N18	W29	9077	07	14.5	15	SF		3	E		12		F
	RAMY	16	1637	1639	1651	N19	W26	9077	07	14.7	14	SF		3	E		14		
0401		16	1724	1728	1734	N18	W30	9077	07	14.4	10	SF					12		
	HOLL	16	1724	1728	1734	N18	W29	9077	07	14.5	10	SF		3	E		13		
	RAMY	16	1728	1729	1733	N19	W30	9077	07	14.4	5	SF		3	E		11		
0402		16	1728	1734	1757	S06	E70	9091	07	22.0	29	1F					204		H
	RAMY	16	1728	1734	1757	S09	E71	9091	07	22.0	29	1F		3	E		216		H
	HOLL	16	1728	1734	1757	S04	E70	9091	07	22.0	29	1F		3	E		193		
0403	HOLL	16	1804	1807	1815	N16	W31	9077	07	14.4	11	SF		3	E		12		
0404		16	1805	1806	1810	S11	E47	9087	07	20.3	5	SF					16		F
	RAMY	16	1805	1806	1810	S12	E48	9087	07	20.4	5	SF		3	E		18		
	HOLL	16	1806	1806	1810	S10	E46	9087	07	20.2	4	SF		3	E		14		F
0405	RAMY	16	1827	1827	1832	S13	E44	9087	07	20.1	5	SF		3	E		11		
0406	HOLL	16	1828	1833	1836	N15	E76	9090	07	22.5	8	SF		3	E		40		
0407	RAMY	16	1828	1830	1834	N05	E79	9090	07	22.7	6	SF		3	E		19		
0408		16	1847	1847	1851	S11	E44	9087	07	20.1	4	SF					28		
	RAMY	16	1847	1847	1851	S13	E44	9087	07	20.1	4	SF		3	E		27		
	HOLL	16	1847	1847	1851	S09	E45	9087	07	20.2	4	SF		3	E		29		
0409	RAMY	16	1904	1906	1918	S13	E48	9087	07	20.4	14	SF		3	E		35		
0410		16	1936	1938	1958	S11	E48	9087	07	20.4	22	1N					98		
	RAMY	16	1936	1938	1959	S13	E48	9087	07	20.4	23	1N		3	E		107		
	HOLL	16	1937	1938	1958	S09	E48	9087	07	20.4	21	SN		3	E		88		
0411		16	2046	2049	2106	S07	E68	9091	07	21.9	20	1N					214		
	HOLL	16	2046	2049	2106	S04	E68	9091	07	21.9	20	1N		3	E		218		
	RAMY	16	2046	2049	2106	S10	E69	9091	07	22.0	20	1N		3	E		211		
0412	HOLL	16	2058	2058	2105	N15	E67	9090	07	21.9	7	SF		3	E		13		
0413		16	2101	2103	2114	N18	W32	9077	07	14.4	13	SF					33		
	RAMY	16	2101	2103	2113	N19	W32	9077	07	14.4	12	SF		3	E		30		
	HOLL	16	2102	2104	2114	N16	W33	9077	07	14.4	12	SF		3	E		36		
0414	HOLL	16	2149	2152	2219	N14	E76	9090	07	22.6	30	1N		3	E		139		F
0415	RAMY	16	2150	2152U	2215D	N07	E75	9090	07	22.5	25D	SF		3	E		96		F
0416	HOLL	16	2155	2155	2158	N19	W13	9084	07	15.9	3	SF		3	E		14		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0417		16	2241	2243	2258	S10	E45	9087	07	20.3	17	SF				18			
	HOLL	16	2241	2243	2258	S08	E46	9087	07	20.4	17	SF	3	E		20			
	RAMY	16	2243E	2243U	2246D	S13	E44	9087	07	20.3	3D	SF	2	E		15			
0418		16	23414	2352*	2451	N17	W40	9077	07	13.9	70	2F				251	1.0	EFU	
	LEAR	16	2341	2406	2513	N17	W38	9077	07	14.1	92	2F	3	E		322		F	
	HOLL	16	2342	2401U	2522	N18	W42	9077	07	13.8	100	2F	3	E		360		UF	
	MITK	16	2345	2352	2359	N15	W40	9077	07	14.0	14	SN			2352	70	1.0	E	
0419	LEAR	17	0002	0005	0012	N11	E76	9090	07	22.7	10	SN	3	E		88		E	
0420	HOLL	17	0002	0003	0013	N15	E65	9090	07	21.9	11	SF	3	E		41			
0421		17	00263	00423	0103	N18	E04	9088	07	17.3	37	SF				14			
	LEAR	17	0026	0042	0102	N19	E03	9088	07	17.2	36	SF	3	E		14			
	HOLL	17	0029	0045	0104	N18	E04	9088	07	17.3	35	SF	3	E		15			
0422		17	0032	0033	0051	S11	E46	9087	07	20.5	19	1N				91		EFH	
	LEAR	17	0032	0033	0048	S12	E46	9087	07	20.5	16	SN	3	E		80		E	
	HOLL	17	0032	0033	0054	S10	E45	9087	07	20.4	22	1F	3	E		102		FH	
0423	HOLL	17	0040	0055	0115	N22	W17	9084	07	15.7	35	SF	3	E		15			
0424	LEAR	17	0041	0041	0105	N19	W12	9084	07	16.1	24	SF	3	E		11		F	
0425	HOLL	17	0050	0051	0055	N15	E65	9090	07	21.9	5	SF	3	E		28			
0426	HOLL	17	0103	0104	0109	N15	E64	9090	07	21.9	6	SF	3	E		28			
0427	LEAR	17	0238	0238	0256	S12	E37	9087	07	19.9	18	SF	3	E		20		F	
0428	LEAR	17	0239	0240	0248	N17	W31	9077	07	14.7	9	SF	3	E		12			
0429	LEAR	17	0251	0320	0340	N18	W44	9077	07	13.8	49	SF	4	E		44		F	
0430	LEAR	17	0435E	0437U	0501	N18	W32	9077	07	14.7	26D	SF	3	E		81		F	
0431	LEAR	17	0513	0513	0521	N03	W02	9081	07	17.1	8	SF	3	E		41			
0432	LEAR	17	0527	0531	0544	N13	E73	9090	07	22.7	17	SN	3	E		56			
0433		17	0621	06303	0648	N18	W40	9077	07	14.2	27	SF				75			
	SVTO	17	0621	0630	0648	N18	W40	9077	07	14.2	27	SF	3	E		75			
	KANZ	17	0627E	0633	0648	N17	W39	9077	07	14.3	21D	SF	2	C					
0434		17	07088	0710*	0718	S10	E38	9087	07	20.1	10	SF				22			
	SVTO	17	0708	0710	0715	S08	E36	9087	07	20.0	7	SF	3	E		24			
	KANZ	17	0709	0711	0718	S09	E37	9087	07	20.1	9	SF	2	C					
	SVTO	17	0716	0720	0722	S13	E41	9087	07	20.4	6	SF	3	E		19			
0435	KANZ	17	0742	0743	0746	S09	E37	9087	07	20.1	4	SF	2	C					
0436	KANZ	17	0805	0806	0812	N17	W39	9077	07	14.4	7	SF	2	C					
0437		17	0826	0839	0849	S11	E38	9087	07	20.2	23	1F				152		FHLO	
	KANZ	17	0826	0839	0850	S13	E39	9087	07	20.3	24	1F	2	C					
	SVTO	17	0830E	0842U	0850	S10	E36	9087	07	20.0	20D	1F	3	E		114		FH	
	KHAR	17	0835E		0848	S09	E38	9087	07	20.2	13D	1N	2	P	0838	190		HLO	
0438	KHAR	17	0847U		0852	S13	W40	9082	07	14.3	5U	SF	2	V				DH	
0439		17	0923	0924	0932	N14	E71	9090	07	22.7	9	SN				66			
	SVTO	17	0923	0924U	0931	N15	E71	9090	07	22.8	8	SF	3	E		66			
	KANZ	17	0923	0924	0932	N14	E71	9090	07	22.7	9	SN	2	C					
0440	KHAR	17	0935E		0943	S09	E29	9087	07	19.6	8D	1F	2	V				E	
0441	KHAR	17	0945U		1010	S06	E38	9087	07	20.2	25U	SF	2	V				D	

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0442	KHAR	17	1029	1030	1035	S06	E38	9087	07 20.3	6	SF		2	P	1035	35		DH
0443	KHAR	17	1035	1036	1040	S08	E36	9087	07 20.1	5	SF		2	P	1035	25		D
0444	KHAR	17	1102	1103	1115	S06	E38	9087	07 20.3	13	SN		2	V				H
0445	KANZ	17	1114E		1120D	N02	W04	9081	07 17.2	6D	SF		2	C				
0446		17	11162	1118	1151	N04	W06	9081	07 17.0	35	1F					39		EF
	KHAR	17	1116	1118	1150	N03	W07	9081	07 16.9	34	1F		2	V				E
	SVTO	17	1118	1124U	1152	N04	W06	9081	07 17.0	34	SF		3	E		39		F
0447	SVTO	17	1152	1152	1159	N03	W06	9081	07 17.0	7	SF		3	E		13		
0448		17	13378	13441	1357	S08	E32	9087	07 20.0	20	2F					226		FH
	SVTO	17	1337	1344	1354	S08	E31	9087	07 19.9	17	1F		3	E		195		FH
	HOLL	17	1345	1345	1400	S08	E34	9087	07 20.1	15	2F		3	E		258		
0449		17	13421	1345*	1419	N04	W06	9081	07 17.1	37	1F					58		F
	HOLL	17	1342	1402	1435	N04	W06	9081	07 17.1	53	1F		3	E		103		
	SVTO	17	1343	1345	1403	N05	W07	9081	07 17.0	20	SF		3	E		14		F
0450		17	1359*	14101	1426	N18	W41	9077	07 14.5	27	1F					76		F
	HOLL	17	1359	1411	1436	N17	W39	9077	07 14.6	37	1F		3	E		140		F
	SVTO	17	1410	1410	1416	N19	W43	9077	07 14.3	6	SF		3	E		12		F
0451	HOLL	17	1425	1425	1429	S13	E30	9087	07 19.9	4	SF		3	E		14		
0452	HOLL	17	1438	1439	1444	S08	E33	9087	07 20.1	6	SF		3	E		15		
0453	HOLL	17	1515	1517	1520	N18	W43	9077	07 14.4	5	SF		3	E		26		
0454	HOLL	17	1544	1559	1613	S08	E34	9087	07 20.2	29	SF		3	E		16		
0455	HOLL	17	1652	1656	1703	S08	E34	9087	07 20.2	11	SF		3	E		26		
0456		17	18061	18068	1828	N18	W44	9077	07 14.4	22	1F					126		F
	RAMY	17	1806	1806	1830	N19	W47	9077	07 14.2	24	1F		3	E		205		
	HOLL	17	1807	1814	1827	N17	W42	9077	07 14.6	20	SF		3	E		48		F
0457	RAMY	17	1839	1840	1852	N19	W40	9077	07 14.7	13	SF		3	E		19		
0458		17	18336	1842	1901	S14	E36	9087	07 20.5	28	SF					16		
	RAMY	17	1833	1842	1903	S15	E36	9087	07 20.5	30	SF		3	E		18		
	HOLL	17	1839	1842	1859	S12	E36	9087	07 20.5	20	SF		3	E		15		
0459		17	1842	1844	1852	S06	E56	9091	07 22.0	10	1N					98		
	HOLL	17	1842	1844	1852	S04	E56	9091	07 22.0	10	1N		3	E		104		
	RAMY	17	1842	1844	1852	S09	E56	9091	07 22.0	10	SN		3	E		93		
0460	RAMY	17	1854	1856	1907	N18	W47	9077	07 14.2	13	SF		3	E		19		
0461	RAMY	17	1931	1933	1938	S11	E31	9087	07 20.1	7	SF		3	E		13		
0462		17	1958*	20254	2106	S10	E36	9087	07 20.5	68	2B					216		FHU
	RAMY	17	1958	2025	2113	S08	E35	9087	07 20.4	75	2B		3	E		314		UH
	HOLL	17	2016	2029	2058	S11	E36	9087	07 20.5	42	1N		3	E		118		UF
0463	RAMY	17	2007	2008	2013	N20	W06	9088	07 17.4	6	SF		3	E		19		
0464	RAMY	17	2104	2104	2110	N20	W07	9088	07 17.3	6	SF		3	E		11		
0465	RAMY	17	2117	2119	2129	S15	E26	9087	07 19.8	12	SF		3	E		34		
0466	RAMY	17	2118	2118	2123	N20	W10	9088	07 17.1	5	SF		3	E		17		
0467	HOLL	17	2231	2303	2319	S12	E30	9087	07 20.2	48	1F		3	E		117		H
0468	HOLL	17	2242	2251	2307	N17	W50	9077	07 14.1	25	SF		3	E		55		

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0469	HOLL	17	2330	2336	2347	S12	E30	9087	07	20.2	17	SF		3	E		11		
0470	HOLL	17	2342	2401	2401D	N18	W42	9077	07	14.8	19D	2F		3	E		360		
0471	HOLL	18	0001	0005	0010	S12	E30	9087	07	20.3	9	SF		3	E		22		
0472	LEAR	18	0412	0413	0418	S13	E29	9087	07	20.4	6	SF		3	E		39		F
0473		18	0458	05055	0638	N18	W57	9077	07	13.9	100	2N					218		EFU
	LEAR	18	0458	0505	0638	N17	W58	9077	07	13.8	100	2B		3	E		322		UE
	SVTO	18	0503E	0510	0610D	N18	W56	9077	07	13.9	67D	1F		3	E		114		F
0474	LEAR	18	0625	0626U	0633D	S13	E28	9087	07	20.4	8D	SF		3	E		21		
0475	LEAR	18	0709	0715	0723	N17	W54	9077	07	14.2	14	SF		3	E		26		
0476		18	07084	0721	0756	S12	E16	9087	07	19.5	48	1F					104		F
	LEAR	18	0708	0721	0803	S13	E16	9087	07	19.5	55	1F		3	E		139		F
	SVTO	18	0712	0718U	0748	S11	E17	9087	07	19.6	36	SF		3	E		68		F
0477	LEAR	18	0757	0801	0812	N12	W04	9085	07	18.0	15	SF		3	E		21		
0478	KHAR	18	0845E	0850U	0940U	N12	E85		07	24.8	55U	1F		2	V				
0479	KHAR	18	0845E		0855D	S11	E19	9087	07	19.8	10D	SF		2	V				E
0480	SVTO	18	1000	1001	1005	N25	E07	9095	07	18.9	5	SF		3	E		17		H
0481	RAMY	18	1045	1049	1056	S10	E19	9087	07	19.9	11	SF		3	E		30		
0482	RAMY	18	1055	1104	1106	N05	E79		07	24.4	11	SF		3	E		13		H
0483	RAMY	18	1109	1109	1122	N22	E05	9095	07	18.8	13	SF		3	E		14		
0484	RAMY	18	1121	1122	1126	S15	E23	9087	07	20.2	5	SF		3	E		20		
0485	RAMY	18	1141	1141	1147	S08	E25	9087	07	20.4	6	SF		3	E		15		
0486		18	11464	11482	1154	N16	W58	9077	07	14.1	8	SF					36		D
	KHAR	18	1146	1148	1155	N14	W58	9077	07	14.1	9	SF		2	V				D
	RAMY	18	1150	1150	1154	N19	W59	9077	07	14.0	4	SF		3	E		36		
0487	RAMY	18	1318	1320	1339	N13	W04	9085	07	18.2	21	SF		3	E		44		
0488	RAMY	18	1324	1324	1337	N19	W59	9077	07	14.0	13	SF		3	E		24		
0489	RAMY	18	1333	1335	1344	N23	E03	9095	07	18.8	11	SF		3	E		18		
0490	RAMY	18	1333	1334	1338	S14	E14	9087	07	19.6	5	SF		3	E		41		
0491		18	1333	1336*	1344	N06	E78		07	24.4	11	SF					21		
	RAMY	18	1333	1336	1338	N05	E79		07	24.5	5	SF		3	E		11		
	HOLL	18	1340E	1346	1350	N07	E76		07	24.3	10D	SF		3	E		31		
0492	HOLL	18	1351	1634	1811	N07	E82		07	24.7	260	1F		3	E		170		U
0493		18	1401	14183	1520	S12	E14	9087	07	19.6	79	2N					264		FU
	HOLL	18	1401	1418	1541	S14	E15	9087	07	19.7	100	2N		3	E		346		UF
	SVTO	18	1401	1421	1458	S10	E13	9087	07	19.6	57	1F		3	E		182		F
0494	RAMY	18	1401	1950	2101	S11	E04	9087	07	18.9	420	1B		3	E		221		FU
0495		18	1402	14031	1407	N20	W60	9077	07	14.0	5	SF					18		F
	RAMY	18	1402	1403	1407	N20	W61	9077	07	13.9	5	SF		3	E		21		
	HOLL	18	1402	1404	1407	N19	W59	9077	07	14.1	5	SF		3	E		14		F
0496	RAMY	18	1540	1540	1544	N04	E81		07	24.7	4	SF		3	E		13		
0497	HOLL	18	1542	1547	1710	S11	E17	9087	07	19.9	88	SF		3	E		33		F



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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0498	RAMY	18	1550	1554	1605	N06	E68		07	23.7	15	SF		3	E		18				
0499	RAMY	18	1607	1607	1618	N05	E79		07	24.6	11	SF		3	E		13				
0500	RAMY	18	1622	1634	1640	N06	E68		07	23.8	18	SF		3	E		59				
0501	RAMY	18	1656	1658	1705	N03	E81		07	24.7	9	SF		3	E		39				
0502		18	1703	1703	1712	N16	W02	9085	07	18.5	9	SF					16			F	
	HOLL	18	1703	1703	1710	N16	W02	9085	07	18.5	7	SF		3	E		11			F	
	RAMY	18	1703	1703	1714	N16	W03	9085	07	18.5	11	SF		3	E		20			F	
0503	HOLL	18	1721	1735	1810	S13	E12	9087	07	19.6	49	SF		3	E		71				
0504	RAMY	18	1730	1730	1738	N23	E03	9095	07	19.0	8	SF		3	E		13				
0505	HOLL	18	1853	1944U	2210D	S14	E18	9087	07	20.1	197D	2N		3	E		308			FU	
0506	HOLL	18	1854	1859	1930	N06	E74		07	24.3	36	SF		3	E		33				
0507	HOLL	18	1927	1935	2001	N17	W61	9077	07	14.2	34	SF		3	E		29				
		18	1950		1959	No Flare Patrol															
0508	HOLL	18	2019	2022	2032	N07	E83	9097	07	25.1	13	SF		3	E		76				
0509		18	2105*	21149	2128	N18	W58	9077	07	14.5	23	SF					12				
	RAMY	18	2105	2114	2131	N19	W56	9077	07	14.6	26	SF		3	E		12				
	HOLL	18	2120	2123	2126	N18	W59	9077	07	14.4	6	SF		3	E		11				
0510	RAMY	18	2110	2112	2127	S12	E14	9087	07	19.9	17	SF		3	E		20				
		18	2152		2200	No Flare Patrol															
0511	HOLL	18	2304	2306	2320	N17	W63	9077	07	14.2	16	SF		3	E		27				
		18	2312		2318	No Flare Patrol															
		18	2324		2400	No Flare Patrol															
		19	0000		0017	No Flare Patrol															
0512	SVTO	19	0431	0434	0522	S19	E13	9087	07	20.2	51	SF		3	E		45			F	
0513	URUM	19	0441	0445	0449	N24	W06		07	18.7	8	SN			C		80	0.9		E	
0514		19	0637E	0723	0901	S18	E10	9087	07	20.0	144D	3N					700			F	
	KANZ	19	0637E	0723	0901	S15	E07	9087	07	19.8	144D	3N		2	C						
	SVTO	19	0640E	0721U	0818D	S21	E12	9087	07	20.2	98D	3N		3	E		700			F	
		19	0831		0835	No Flare Patrol															
0515	KANZ	19	0917	0918	0931D	S09	E10	9087	07	20.1	14D	SF		2	C						
		19	0922		0929	No Flare Patrol															
		19	0932		0938	No Flare Patrol															
		19	0940		0950	No Flare Patrol															
0516	SVTO	19	0941	0943	0944	S13	E13	9087	07	20.4	3	SF		2	E		30			F	
0517	RAMY	19	1028E	1028U	1047D	N13	W19	9085	07	18.0	19D	SF		2	E		48			F	
0518	RAMY	19	1106	1107	1146	N15	W11	9085	07	18.6	40	SF		3	E		26			F	
0519	RAMY	19	1115	1116	1122	N04	E74	9097	07	25.0	7	SF		3	E		28				
0520	RAMY	19	1238	1242	1248	N04	E73	9097	07	25.0	10	SF		3	E		27				
0521	RAMY	19	1256	1256	1304	S17	E10	9087	07	20.3	8	SF		3	E		21			F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0522		19	13413	13457	1402	S13	E02	9087	07	19.7	21	SF						38	
	HOLL	19	1341	1352	1401	S13	E02	9087	07	19.7	20	SF		3	E			48	
	RAMY	19	1344	1345	1404	S13	E02	9087	07	19.7	20	SF		3	E			27	
0523	RAMY	19	1444	1446	1451	N10	E32	9090	07	22.0	7	SF		3	E			29	
0524	RAMY	19	1529	1530	1538	N13	W16	9085	07	18.4	9	SF		3	E			20	
0525	RAMY	19	1548	1551	1553	S09	E06	9087	07	20.1	5	SF		3	E			11	
0526		19	1559*	16243	1650	N05	E70	9097	07	24.9	51	SF						35	
	HOLL	19	1559	1624	1703	N07	E68	9097	07	24.7	64	SF		3	E			56	
	RAMY	19	1623	1627	1636	N03	E71	9097	07	25.0	13	SF		3	E			14	
0527		19	1609	1610	1630	N17	W69	9077	07	14.4	21	SF						82	
	HOLL	19	1554E	1610U	1632	N15	W69	9077	07	14.4	38D	SF		3	E			81	
	RAMY	19	1609	1610	1628	N19	W69	9077	07	14.4	19	SF		3	E			83	
0528		19	1632	1634	1639	S12	E02	9087	07	19.8	7	SF						18	
	RAMY	19	1632	1634	1639	S12	E03	9087	07	19.9	7	SF		3	E			23	
	HOLL	19	1632E	1636U	1639	S12	E02	9087	07	19.8	7D	SF		3	E			12	
0529	HOLL	19	1708	1722	1729	N07	E69	9097	07	24.9	21	SF		3	E			32	
0530		19	17261	17262	1733	N21	W31	9088	07	17.3	7	SF						12	
	RAMY	19	1726	1726	1734	N22	W31	9088	07	17.3	8	SF		3	E			11	
	HOLL	19	1727	1728	1732	N20	W31	9088	07	17.3	5	SF		3	E			14	
0531	HOLL	19	1737	1750	1759	N07	E68	9097	07	24.8	22	SF		3	E			44	
0532	HOLL	19	1805	1809	1814	N07	E68	9097	07	24.8	9	SF		3	E			25	
0533		19	1827	18411	1904	N14	W20	9085	07	18.2	37	SF						46	
	HOLL	19	1827	1841	1904	N14	W19	9085	07	18.3	37	SF		3	E			47	
	RAMY	19	1827	1842	1902D	N13	W21	9085	07	18.2	35D	SF		3	E			46	
0534		19	18324	18391	1903	N05	E69	9097	07	24.9	31	1F						117	
	HOLL	19	1832	1839	1906	N07	E68	9097	07	24.9	34	1F		3	E			128	
	RAMY	19	1836	1840	1900	N03	E70	9097	07	25.0	24	1F		3	E			106	
0535	HOLL	19	1906	1912	1919	N13	W22	9085	07	18.1	13	SF		3	E			11	
0536	HOLL	19	1907	1917	1919	N07	E69	9097	07	25.0	12	SF		3	E			17	
0537	HOLL	19	2011E	2011	2016	S12	E00	9087	07	19.8	5D	SF		3	E			35	
0538	HOLL	19	2052	2052	2058	N08	W26	9085	07	17.9	6	SF		3	E			11	
0539	HOLL	19	2126	2139	2152	S11	E01	9087	07	20.0	26	SF		3	E			56	
0540	HOLL	19	2138	2140	2147	N16	W74	9077	07	14.3	9	SF		3	E			18	
0541	HOLL	19	2157	2157	2211	N07	E65	9097	07	24.8	14	SF		3	E			25	
0542	HOLL	19	2214	2216	2245	N21	W36	9088	07	17.2	31	SF		3	E			56	
0543	HOLL	19	2248	2254	2307	N18	W35	9088	07	17.3	19	SF		3	E			20	
0544	HOLL	20	0033	0038	0045	N16	W75	9077	07	14.3	12	SF		3	E			28	
0545	HOLL	20	0056	0057	0114	N14	E36	9090	07	22.7	18	SF		3	E			14	
0546	URUM	20	0110E	0110	0114	N25	W14		07	19.0	4D	SN			P			80	0.9 E
0547	LEAR	20	0307E	0312U	0312D	S12	W04	9087	07	19.8	5D	SF		3	E			24	F
0548	LEAR	20	0312E	0317U	0332D	N05	E61	9097	07	24.7	20D	SF		3	E			59	
0549	LEAR	20	0349E	0358	0438D	S12	W05	9087	07	19.8	49D	SF		3	E			39	F

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0550	LEAR	20	0400	0413	0432	N07	E62	9097	07	24.8	32	SF	3	E		44			
0551		20	0439	0444U	0513	S12	W04	9087	07	19.9	34	SF				48		F	
	SVTO	20	0439	0444U	0513	S11	W04	9087	07	19.9	34	SF	3	E		47		F	
	LEAR	20	0440E	0445U	0451D	S12	W05	9087	07	19.8	11D	SF	3	E		49		F	
0552		20	0500	0502I	0514	N19	W38	9088	07	17.3	14	SF				48	1.1	EF	
	LEAR	20	0500E	0502U	0516D	N20	W39	9088	07	17.2	16D	SF	3	E		44		F	
	SVTO	20	0500	0503	0514	N19	W37	9088	07	17.4	14	SF	3	E		21			
	URUM	20	0502E	0502	0515	N19	W39	9088	07	17.2	13D	SN		P		80	1.1	E	
0553	SVTO	20	0519	0525	0531	S11	W02	9087	07	20.1	12	SF	3	E		10		F	
0554	LEAR	20	0718E	0718U	0721	N05	E59	9097	07	24.7	3D	SF	3	E		20			
0555	KANZ	20	0735E		0742	N14	E22	9090	07	22.0	7D	SF	2	C					
0556	KANZ	20	0735E		0746	N11	W31	9085	07	18.0	11D	SF	2	C					
0557	KANZ	20	0804	0807	0813	N06	E59		07	24.7	9	SF	2	C					
0558		20	0816	0822I	0832	S10	W06	9087	07	19.9	16	SF				23		F	
	SVTO	20	0816	0822	0831	S11	W05	9087	07	20.0	15	SF	3	E		23		F	
	KANZ	20	0816	0823	0832	S10	W06	9087	07	19.9	16	SF	2	C					
0559		20	0838	0843I	0906	S11	W07	9087	07	19.8	28	SF				64		F	
	LEAR	20	0835E	0846U	0911	S11	W08	9087	07	19.7	36D	SF	3	E		77		F	
	KANZ	20	0838	0843	0901D	S11	W06	9087	07	19.9	23D	SF	2	C					
	SVTO	20	0838	0845	0902	S11	W06	9087	07	19.9	24	SF	3	E		52		F	
0560	KHAR	20	0902E		0910	N11	E64		07	25.2	8D	SF	2	P				D	
0561	KHAR	20	0902E		0912	N18	W39	9088	07	17.4	10D	SN	2	P	0909	40		D	
0562	KHAR	20	0920U		0931	N21	W23	9085	07	18.6	11U	SF	2	V				DL	
0563		20	0924	0925	0940D	N08	E60		07	24.9	16D	SN						D	
	KHAR	20	0924U	0925	0935D	N10	E62		07	25.1	11U	SN	2	V				D	
	KANZ	20	0924	0925	0940D	N05	E59		07	24.8	16D	SF	2	C					
0564		20	0936	0948	1105	S13	W07	9087	07	19.9	89	1F				258		EFIL	
	SVTO	20	0936	1007U	1105	S12	W08	9087	07	19.8	89	1F	3	E		195		F	
	KHAR	20	0940E	0948	1105D	S12	W04	9087	07	20.1	85D	2N	2	P	1004	320		LIE	
	KANZ	20	0940E	1013U	1027D	S14	W10	9087	07	19.6	47D	1F	2	C					
0565	RAMY	20	1029E	1029U	1121	S15	W10	9087	07	19.7	52D	2F	2	E		267		F	
0566	KHAR	20	1040		1059	N16	E21	9090	07	22.0	19	SF	2	V				D	
0567	RAMY	20	1147	1149	1155	N04	E59	9097	07	24.9	8	SF	3	E		19			
0568	RAMY	20	1225	1226	1234	N13	W29	9085	07	18.3	9	SF	3	E		57		H	
0569	RAMY	20	1235	1236	1240	S26	E31	9094	07	22.9	5	SF	3	E		15			
0570		20	1316I	1321	1344	S14	W08	9087	07	19.9	28	SN				48		F	
	RAMY	20	1316	1321	1349	S13	W08	9087	07	19.9	33	SN	3	E		59		F	
	SVTO	20	1318	1323U	1338	S15	W07	9087	07	20.0	20	SF	3	E		37		F	
0571	RAMY	20	1326	1328	1338	N11	E20	9090	07	22.1	12	SF	3	E		10			
0572	RAMY	20	1358	1359	1407	N15	W35	9085	07	17.9	9	SF	3	E		44			
0573	RAMY	20	1403	1412	1442	N11	E20	9090	07	22.1	39	SF	3	E		19			
0574	RAMY	20	1427	1427	1430	S09	W05	9087	07	20.2	3	SF	3	E		12			
0575		20	1454I	1457	1518	N11	E18	9090	07	22.0	24	SF				39		H	
	RAMY	20	1454	1457	1528	N11	E19	9090	07	22.0	34	SF	3	E		64			
	SVTO	20	1457	1457	1509	N11	E18	9090	07	22.0	12	SF	3	E		14		H	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0576	HOLL	20	1536	1538	1543	S05	E18	9091	07	22.0	7	SF		3	E		16			
0577		20	1546	1548	1559	S11	W09	9087	07	20.0	13	SN					62		FH	
	SVTO	20	1546	1548	1556	S11	W08	9087	07	20.0	10	SF		3	E		44		FH	
	RAMY	20	1546	1548	1602	S11	W10	9087	07	19.9	16	SN		3	E		80		F	
0578		20	16003	1611*	1704	N11	E18	9090	07	22.0	64	SF					42		H	
	RAMY	20	1600	1640	1716	N11	E18	9090	07	22.0	76	SF		3	E		58			
	HOLL	20	1601	1701	1727	N12	E17	9090	07	21.9	86	SF		3	E		54		H	
	SVTO	20	1603	1611	1628	N11	E18	9090	07	22.0	25	SF		3	E		14			
0579	SVTO	20	1703E	1704U	1711	N13	E25	9090	07	22.6	8D	SF		3	E		12			
0580	RAMY	20	1715	1720	1724	N17	W26	9085	07	18.7	9	SF		3	E		12			
0581		20	1731*	18504	1956	N12	E16	9090	07	21.9	145	SN					52		E	
	HOLL	20	1731	1854	1956	N13	E16	9090	07	21.9	145	SF		3	E		65			
	RAMY	20	1833	1850	1920D	N11	E17	9090	07	22.0	47D	SN		3	E		39		E	
0582	HOLL	20	2003	2013	2029	N12	E16	9090	07	22.0	26	SF		3	E		46			
0583	HOLL	20	2023	2027	2051	S15	W11	9087	07	20.0	28	1B		2	E		138		FU	
0584	HOLL	20	2103	2106	2114	S07	W08	9087	07	20.3	11	SN		3	E		50			
0585	HOLL	20	2213	2215	2220	S16	W11	9087	07	20.1	7	SF		3	E		14		F	
0586	HOLL	20	2303	2309	2329	N12	E14	9090	07	22.0	26	SF		3	E		27			
0587	HOLL	20	2326	2330	2332	N11	W40	9085	07	18.0	6	SF		3	E		12		H	
0588	HOLL	21	0047	0049U	0050D	N21	W59	9084	07	16.5	3D	SF		2	E		19			
		21	0051		0309	No Flare Patrol														
0589	LEAR	21	0310E	0312	0330	S12	W17	9087	07	19.8	20D	SF		3	E		29			
		21	0337		0411	No Flare Patrol														
0590		21	0439	0440	0448	S11	W16	9087	07	20.0	9	SN					90	1.4	EF	
	URUM	21	0439	0440	0450	S11	W16	9087	07	20.0	11	SN			C		129	1.4	E	
	SVTO	21	0439E	0441U	0447	S11	W15	9087	07	20.1	8D	SF		3	E		51		F	
0591		21	0506E	0508U	0512	S13	W15	9087	07	20.1	6D	SF					26		F	
	SVTO	21	0506E	0508U	0511	S13	W14	9087	07	20.1	5D	SF		3	E		24		F	
	LEAR	21	0508E	0508U	0512	S13	W16	9087	07	20.0	4D	SF		3	E		28		F	
0592	SVTO	21	0514	0515	0526	S13	W14	9087	07	20.2	12	SF		3	E		13			
0593	LEAR	21	0508E	0523U	0615	N13	E18	9090	07	22.6	67D	1N		3	E		218		EF	
0594	SVTO	21	0513	0523	0603	N12	E10	9090	07	22.0	50	1N		3	E		165		FH	
0595		21	06304	0639	0727	N19	W46	9088	07	17.8	57	SF					42		FH	
	LEAR	21	0630	0639	0742	N19	W45	9088	07	17.8	72	SF		3	E		57		FH	
	SVTO	21	0634	0638U	0712	N19	W48	9088	07	17.6	38	SF		3	E		26			
0596	LEAR	21	0749	0752	0756	N03	E49	9097	07	25.0	7	SF		3	E		14			
0597		21	0815*	0828	0918	N13	E08	9090	07	21.9	63	SF					30		DF	
	SVTO	21	0815	0926U	0941	N12	E07	9090	07	21.9	86	SF		3	E		25		F	
	KHAR	21	0826	0828	0855	N14	E08	9090	07	22.0	29	SF		2	P	0841	35		D	
0598	KHAR	21	0927		0943U	N14	E08	9090	07	22.0	16U	SF		2	V				D	
0599		21	08364	0842	0904	N05	E47	9097	07	24.9	28	SF					54		EFO	
	LEAR	21	0836	0842	0911D	N03	E47	9097	07	24.9	35D	SF		3	E		60		FE	
	KHAR	21	0840		0915	N08	E49	9097	07	25.1	35	SN		2	P	0841	48		OE	
	KANZ	21	0847E		0854	N03	E45	9097	07	24.7	7D	SF		2	C					

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0600		21	0850	0851	0858	S12	W20	9087	07	19.9	8	SF						17	
	KANZ	21	0850	0851	0854D	S12	W20	9087	07	19.9	4D	SF	2	C					
	LEAR	21	0850	0852	0858	S11	W20	9087	07	19.9	8	SF	3	E				17	
0601	LEAR	21	0859	0859	0902	N20	W53	9088	07	17.3	3	SF	3	E				26	
0602	SVTO	21	0944	0944	0952	N13	E16	9090	07	22.6	8	SF	3	E				32	
0603		21	0954	1048U	1115	N12	E10	9090	07	22.2	81	1N						172	FH
	SVTO	21	0954	1048U	1121	N12	E13	9090	07	22.4	87	1N	3	E				172	FH
	KHAR	21	1005U		1109	N13	E07	9090	07	22.0	64U	SN	2	P					H
0604	SVTO	21	1056	1058	1106	S13	W18	9087	07	20.1	10	SF	3	E				23	F
0605		21	1146	1156	1159	N11	E05	9090	07	21.9	13	SF						26	F
	SVTO	21	1146	1149U	1159	N11	E06	9090	07	21.9	13	SF	3	E				26	F
	KANZ	21	1154E	1156	1203D	N11	E04	9090	07	21.8	9D	SF	2	C					
0606		21	12173	12191	1225	S09	W17	9087	07	20.2	8	SF						19	FH
	KANZ	21	1217E	1217U	1225	S09	W17	9087	07	20.2	8D	SF	2	C					
	SVTO	21	1217	1219	1225	S09	W17	9087	07	20.2	8	SF	3	E				18	FH
	RAMY	21	1220	1220	1225	S08	W18	9087	07	20.2	5	SF	3	E				20	
0607	RAMY	21	1256	1258	1314	N11	E07	9090	07	22.1	18	SF	3	E				26	
0608	RAMY	21	1315	1436	1933	N10	E12	9090	07	22.4	378	2B	3	E				495	FHU
0609		21	1330*	13377	1349	S12	W22	9087	07	19.9	19	SF						14	FH
	SVTO	21	1330	1337	1342	S12	W22	9087	07	19.9	12	SF	3	E				11	FH
	RAMY	21	1331	1338	1356	S12	W24	9087	07	19.7	25	SF	3	E				16	
	SVTO	21	1344	1344	1348	S13	W21	9087	07	20.0	4	SF	3	E				15	FH
0610		21	14051	1408	1434	S11	W22	9087	07	19.9	29	SF						43	FH
	SVTO	21	1405	1408	1427	S11	W22	9087	07	19.9	22	SF	3	E				40	FH
	RAMY	21	1405	1408	1448	S11	W22	9087	07	19.9	43	SF	3	E				50	
	HOLL	21	1406	1408	1428	S12	W23	9087	07	19.8	22	SF	3	E				39	F
0611	SVTO	21	1432	1436	1504	N12	E05	9090	07	22.0	32	1F	3	E				189	FH
0612	HOLL	21	1449	1449	1503	N12	E06	9090	07	22.1	14	SF	3	E				52	H
0613	HOLL	21	1532	1536	1543	N12	E04	9090	07	21.9	11	SF	3	E				16	F
0614	RAMY	21	1549	1554	1625	N21	W41	9095	07	18.5	36	SF	3	E				21	
0615	HOLL	21	1628	1634	1639	N13	E12	9090	07	22.6	11	SF	3	E				10	
0616	RAMY	21	1631	1632	1646	S08	W27	9087	07	19.7	15	SF	3	E				12	
0617	HOLL	21	1653	1654	1657	N20	W76	9077	07	15.9	4	SF	3	E				25	
0618		21	17171	17201	1727	S12	W24	9087	07	19.9	10	SF						28	FH
	HOLL	21	1717	1720	1725	S13	W22	9087	07	20.1	8	SF	3	E				26	
	RAMY	21	1717	1720	1730	S12	W26	9087	07	19.8	13	SF	3	E				38	FH
	SVTO	21	1718	1721	1725	S12	W23	9087	07	20.0	7	SF	3	E				20	FH
0619	RAMY	21	1829	1846	1906	N01	E44	9097	07	25.0	37	SF	3	E				34	
0620	HOLL	21	1830	1830	1837	N07	E40	9097	07	24.8	7	SF	3	E				26	
0621	HOLL	21	1844	1852	1859	N07	E40	9097	07	24.8	15	SF	3	E				32	
0622	HOLL	21	1830	1841	1907	N13	E03	9090	07	22.0	37	SF	3	E				91	
0623	RAMY	21	1931	1932	1937	S13	W23	9087	07	20.1	6	SF	3	E				40	
0624		21	1940	19412	1956	N08	E06	9090	07	22.3	16	SF						38	
	RAMY	21	1940	1941	2002	N07	E08	9090	07	22.4	22	SF	3	E				42	
	HOLL	21	1940	1943	1949	N08	E03	9090	07	22.0	9	SF	3	E				33	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0625	HOLL	21	2006	2010	2017	N13	E10	9090	07	22.6	11	SF		3	E		31		
0626	RAMY	21	2006	2011	2024	N12	E01	9090	07	21.9	18	SF		3	E		38		
0627		21	2018	20211	2029	S12	W26	9087	07	19.9	11	SF					35		F
	RAMY	21	2018	2021	2029	S12	W25	9087	07	20.0	11	SF		3	E		33		
	HOLL	21	2018	2022	2029	S12	W27	9087	07	19.8	11	SF		3	E		37		F
0628		21	20391	20452	2111	N12	E06	9090	07	22.3	32	1F					93		F
	HOLL	21	2039	2047	2111	N13	E09	9090	07	22.5	32	1F		3	E		118		F
	RAMY	21	2040	2045	2054D	N12	E03	9090	07	22.1	14D	SF		3	E		68		F
0629	HOLL	21	2110	2110	2120	S09	W27	9087	07	19.8	10	SF		3	E		16		
0630	HOLL	21	2201	2204	2210	N12	W01	9090	07	21.8	9	SF		3	E		29		
0631	HOLL	21	2239	2248	2320	N12	W50	9085	07	18.2	41	1F		3	E		115		F
0632	HOLL	21	2244	2248	2317	S14	W23	9087	07	20.2	33	1N		3	E		175		F
0633		21	2333		2419	N13	E03	9090	07	22.2	46	1B					134		EF
	LEAR	21	2330E		2419	N13	E06	9090	07	22.4	49D	1B		3	E		103		FE
	HOLL	21	2333		2403D	N13	E00	9090	07	22.0	30D	1N		3	E		165		
0634		21	23532	23551	2403	N20	W62	9088	07	17.2	10	SF					26		
	HOLL	21	2353	2356	2403D	N18	W62	9088	07	17.3	10D	SF		3	E		31		
	LEAR	21	2355	2355	2403	N21	W61	9088	07	17.3	8	SF		3	E		21		
0635	LEAR	22	0007	0010	0040	S12	W29	9087	07	19.8	33	SF		3	E		17		F
0636	LEAR	22	0043	0043	0052	N13	W54	9085	07	17.9	9	SF		3	E		13		F
0637	LEAR	22	0155	0205	0214	S11	W27	9087	07	20.0	19	SF		4	E		14		F
0638	LEAR	22	0224	0234	0250	S33	E75		07	28.0	26	SF		4	E		39		
0639	LEAR	22	0255	0316	0330	N12	W02	9090	07	22.0	35	SF		4	E		60		F
0640	LEAR	22	0409	0410	0417	N22	W47	9095	07	18.6	8	SF		3	E		14		
0641		22	0417	0420	0446	S10	W26	9087	07	20.2	29	SF					48		F
	LEAR	22	0417	0420	0448	S11	W29	9087	07	20.0	31	SF		3	E		55		
	SVTO	22	0420E	0442U	0444	S10	W23	9087	07	20.4	24D	SF		2	E		40		F
0642	SVTO	22	0501	0501	0512	S08	W24	9087	07	20.4	11	SF		3	E		10		F
0643		22	0618	0620	0639	N13	W04	9090	07	22.0	21	SN					76		F
	LEAR	22	0618	0620	0639	N13	W04	9090	07	22.0	21	SN		3	E		88		F
	SVTO	22	0618	0620	0639	N13	W04	9090	07	22.0	21	SF		3	E		65		F
0644		22	06551	0656*	0734	N12	W05	9090	07	21.9	39	1F					94		FH
	SVTO	22	0655	0656	0729	N12	W05	9090	07	21.9	34	SF		3	E		42		FH
	LEAR	22	0655	0708	0735	N12	W05	9090	07	21.9	40	1F		3	E		147		F
	KANZ	22	0656	0708	0739	N12	W04	9090	07	22.0	43	1F		2	C				
0645	KANZ	22	0707	0708	0720	N07	E04	9090	07	22.6	13	SF		2	C				
0646		22	08223	0825	0828	N04	E34	9097	07	24.9	6	SF					48		F
	KANZ	22	0822	0825	0829	N04	E33		07	24.8	7	SF		2	C				
	LEAR	22	0825	0825	0828	N04	E34	9097	07	24.9	3	SF		3	E		48		F
0647		22	09012	0905	0918	N13	W06	9090	07	21.9	17	SF					43		F
	LEAR	22	0901	0905	0920	N13	W06	9090	07	21.9	19	SF		2	E		54		
	SVTO	22	0903	0905	0916	N13	W05	9090	07	22.0	13	SF		3	E		32		F
0648		22	09062	09083	0916	N06	E32	9097	07	24.8	10	SF					20		F
	LEAR	22	0906	0908	0916	N05	E32	9097	07	24.8	10	SF		2	E		27		F
	SVTO	22	0908	0911	0916	N06	E33	9097	07	24.8	8	SF		3	E		13		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0649		22	10574	1101	1106	N06	E30	9097	07	24.7	9	SF					17		F
	KANZ	22	1057	1101	1107	N05	E31		07	24.8	10	SF		2	C				
	SVTO	22	1101	1101	1106	N07	E29	9097	07	24.6	5	SF		3	E		17		F
0650		22	11081	1111	1115	N14	E01	9090	07	22.5	7	SF					36		F
	KANZ	22	1108	1111	1116	N13	W00	9090	07	22.5	8	SF		2	C				
	SVTO	22	1109	1111	1114	N14	E02	9090	07	22.6	5	SF		3	E		36		F
0651		22	11172	11252	1246	N14	W54	9085	07	18.4	89	2N					274		FU
	KANZ	22	1117	1127	1226	N14	W53	9085	07	18.5	69	2N		2	C				
	SVTO	22	1119	1125	1145	N14	W56	9085	07	18.2	26	2N		3	E		318		U
	RAMY	22	1122E	1138U	1408	N15	W54	9085	07	18.4	1660	1N		2	E		231		UF
0652	SVTO	22	1149	1152	1253D	N14	W56	9085	07	18.3	64D	1F		3	E		179		U
0653	RAMY	22	1221	1224	1233	N13	W07	9090	07	22.0	12	SF		3	E		23		
0654	RAMY	22	1229	1231	1239	N22	W74	9088	07	16.8	10	SF		3	E		83		
0655		22	1315	1315	1326	S16	W32	9087	07	20.1	11	SF					36		F
	SVTO	22	1315	1315	1320	S16	W33	9087	07	20.0	5	SF		3	E		18		F
	RAMY	22	1315	1315	1333	S15	W32	9087	07	20.1	18	SF		3	E		54		
0656	RAMY	22	1344	1350	1359	N25	W43	9095	07	19.2	15	SF		3	E		14		H
0657		22	1410	14131	1433	S15	W32	9087	07	20.2	23	SF					97		F
	HOLL	22	1409E	1416U	1438	S15	W33	9087	07	20.1	29D	1F		3	E		154		F
	RAMY	22	1410	1413	1433	S14	W32	9087	07	20.2	23	SF		3	E		74		F
	SVTO	22	1410	1414	1427	S15	W32	9087	07	20.2	17	SF		3	E		64		F
0658		22	14473	14512	1511	N22	W49	9095	07	18.8	24	SF					43		F
	RAMY	22	1447	1452	1527	N22	W46	9095	07	19.1	40	SF		3	E		57		F
	HOLL	22	1447	1453	1509	N22	W53	9095	07	18.5	22	SF		3	E		62		
	SVTO	22	1450	1451	1456	N23	W49	9095	07	18.8	6	SF		3	E		11		
0659	RAMY	22	1516	1519	1550	N13	W08	9090	07	22.0	34	SF		3	E		67		
0660		22	15322	1535	1547	S15	W34	9087	07	20.1	15	SF					60		
	HOLL	22	1532	1535	1548	S15	W34	9087	07	20.1	16	SF		3	E		82		
	RAMY	22	1534	1535	1546	S15	W34	9087	07	20.1	12	SF		3	E		38		
0661		22	15401	15421	1557	N22	W53	9095	07	18.6	17	SF					44		
	HOLL	22	1540	1542	1556	N20	W56	9095	07	18.4	16	SF		3	E		42		
	RAMY	22	1540	1543	1608	N22	W55	9095	07	18.4	28	SF		3	E		68		
	SVTO	22	1541	1542	1546	N23	W49	9095	07	18.9	5	SF		3	E		23		
0662	HOLL	22	1554	1555	1603	S16	E70		07	28.0	9	SF		3	E		19		
0663		22	16091	16113	1622	N20	W72	9088	07	17.2	13	SF					31		
	HOLL	22	1609	1614	1619	N19	W72	9088	07	17.2	10	SF		3	E		30		
	RAMY	22	1610	1611	1624	N21	W71	9088	07	17.2	14	SF		3	E		32		
0664		22	1600*	16111	1620	N12	W08	9090	07	22.1	20	SF					48		F
	RAMY	22	1600	1612	1625	N11	W07	9090	07	22.1	25	SF		3	E		80		
	HOLL	22	1611	1611	1615	N14	W09	9090	07	22.0	4	SF		3	E		16		F
0665		22	16092	1611	1615	S16	W34	9087	07	20.1	6	SF					26		F
	HOLL	22	1609	1611	1615	S16	W33	9087	07	20.2	6	SF		3	E		25		F
	RAMY	22	1611	1611	1615	S15	W34	9087	07	20.1	4	SF		3	E		27		
0666	RAMY	22	1634	1639	1648	N26	W44	9095	07	19.3	14	SF		3	E		20		
0667	RAMY	22	1640	1642	1647	N22	W70	9088	07	17.3	7	SF		3	E		11		
0668		22	16501	1654	1710	N22	W56	9095	07	18.4	20	SF					44		
	RAMY	22	1650	1654	1720	N23	W55	9095	07	18.5	30	SF		3	E		71		
	SVTO	22	1651	1654	1700	N22	W56	9095	07	18.4	9	SF		3	E		17		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0669		22	1651	1651	1656	S12	W36	9087	07	20.0	5	SF				27		
	SVTO	22	1651	1651	1654	S12	W36	9087	07	20.0	3	SF	3	E		12		
	RAMY	22	1651	1651	1657	S12	W36	9087	07	20.0	6	SF	3	E		42		
0670	RAMY	22	1708	1709	1729	N13	W10	9090	07	21.9	21	SF	3	E		17		
0671	RAMY	22	1709	1709	1723	S10	W37	9087	07	19.9	14	SF	3	E		11		
0672	RAMY	22	1805	1805	1812	S15	W36	9087	07	20.0	7	SF	3	E		17		
0673	RAMY	22	1815	1815	1824	S14	W36	9087	07	20.0	9	SF	3	E		14		
0674	RAMY	22	1845	1845	1851	S10	W38	9087	07	19.9	6	SF	3	E		13		
0675		22	1859*	20332	2044	S13	W35	9087	07	20.1	105	1F				77		F
	RAMY	22	1859	2035	2114D	S12	W35	9087	07	20.1	135D	1F	3	E		110		
	HOLL	22	2032	2033	2044	S14	W35	9087	07	20.2	12	SF	3	E		44		F
0676	HOLL	22	2014E	2015U	2018	N22	W52	9095	07	18.8	4D	SF	3	E		43		F
0677	HOLL	22	2142	2151	2206	S12	W41	9087	07	19.8	24	SF	3	E		27		
0678	HOLL	22	2210	2220	2226	S16	W36	9087	07	20.2	16	SF	3	E		37		
		22	2252		2330	No Flare Patrol												
0679	LEAR	22	2347	2431	2450	S10	W45	9087	07	19.6	63	SF	3	E		22		F
0680	LEAR	23	0047	0052	0100	N06	E19	9097	07	24.4	13	SF	3	E		28		FH
0681	LEAR	23	0123	0123	0131	S10	W42	9087	07	19.9	8	SF	3	E		15		F
0682	LEAR	23	0213	0217	0226	S33	E64	9100	07	28.2	13	SF	3	E		34		
0683	LEAR	23	0230	0233	0239	S32	E64	9100	07	28.2	9	SF	3	E		45		H
0684	LEAR	23	0249	0249	0256	N11	W14	9090	07	22.1	7	SF	3	E		13		F
0685	LEAR	23	0305	0311	0313	S12	W41	9087	07	20.0	8	SF	3	E		24		F
0686	LEAR	23	0351	0353	0433	S10	W45	9087	07	19.8	42	SF	3	E		29		
0687		23	0432I	04322	0438	N05	E16	9097	07	24.4	6	SF				32		
	LEAR	23	0432	0432	0438	N05	E16	9097	07	24.4	6	SF	3	E		26		
	SVTO	23	0433	0434	0437	N05	E17	9097	07	24.5	4	SF	3	E		38		
0688	SVTO	23	0536	0537	0543	S12	W44	9087	07	19.9	7	SF	3	E		15		F
0689		23	0545I	0554	0616	S12	W43	9087	07	20.0	31	SF				38		F
	LEAR	23	0545	0554	0618	S11	W43	9087	07	20.0	33	SF	3	E		48		F
	SVTO	23	0546	0554	0614	S12	W43	9087	07	20.0	28	SF	3	E		29		F
0690		23	0914I	0919I	0944	S14	W45	9087	07	20.0	30	SF				72		F
	LEAR	23	0914	0920	0931D	S13	W45	9087	07	20.0	17D	SF	2	E		86		F
	SVTO	23	0915	0919	0944	S14	W45	9087	07	20.0	29	SF	3	E		59		F
0691		23	0940*	0943*	1010	S13	W45	9087	07	20.0	30	SN				119		DEFHL
	KHAR	23	0940	0943	0951	S13	W44	9087	07	20.1	11	SF	2	V				LD
	KHAR	23	0952	0956	1010D	S14	W44	9087	07	20.1	18D	SN	2	V				HE
	SVTO	23	0953	0958	1029	S13	W47	9087	07	19.9	36	1N	3	E		119		F
0692	RAMY	23	1210	1212	1217	N23	W66	9095	07	18.4	7	SF	3	E		58		
0693		23	1317*	1338*	1411	N13	W72	9085	07	18.1	54	1F				97		
	RAMY	23	1317	1338	1410	N14	W73	9085	07	18.0	53	1F	3	E		105		
	HOLL	23	1330	1349	1412	N12	W71	9085	07	18.2	42	SF	3	E		89		
0694	RAMY	23	1317	1319	1322	S15	W46	9087	07	20.1	5	SF	3	E		45		



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
								Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	
0695		23	1357	1358	1409	N07	E19	9097	07	25.0	12	SF				16	
	HOLL	23	1357	1358	1407	N08	E19	9097	07	25.0	10	SF	3	E		14	
	RAMY	23	1357	1358	1411	N06	E19	9097	07	25.0	14	SF	3	E		19	
0696		23	1359	1408	1504	S13	W47	9087	07	20.0	65	1N				126	F
	RAMY	23	1359	1409	1510	S12	W48	9087	07	20.0	71	1N	3	E		154	F
	SVTO	23	1400	1408	1449	S14	W47	9087	07	20.0	49	SF	3	E		89	F
	HOLL	23	1400	1410	1514	S14	W46	9087	07	20.1	74	1N	3	E		134	F
0697	HOLL	23	1514	1520	1522	S12	W51	9087	07	19.8	8	SF	3	E		51	F
0698		23	1426	1427	1445	N14	W20	9090	07	22.1	19	SF				28	F
	RAMY	23	1426	1427	1446	N14	W21	9090	07	22.0	20	SF	3	E		25	
	HOLL	23	1427	1431	1444	N14	W20	9090	07	22.1	17	SF	3	E		31	F
0699	HOLL	23	1428	1436	1456	N07	E16	9097	07	24.8	28	SF	3	E		26	
0700	HOLL	23	1456	1459	1507	N07	E16	9097	07	24.8	11	SF	3	E		20	
0701	HOLL	23	1508	1511	1515	N07	E16	9097	07	24.8	7	SF	3	E		30	
0702	HOLL	23	1535	1538	1539	S13	W49	9087	07	19.9	4	SF	3	E		65	
0703	RAMY	23	1551	1552	1557	N09	E11	9097	07	24.5	6	SF	3	E		14	
0704		23	1632	1635	1644	S10	W52	9087	07	19.8	12	SF				18	
	RAMY	23	1632	1635	1647	S10	W51	9087	07	19.8	15	SF	3	E		26	
	SVTO	23	1635	1636	1640	S11	W52	9087	07	19.8	5	SF	3	E		11	
0705		23	1752	1802	1820	S13	W52	9087	07	19.8	28	2N				234	F
	HOLL	23	1752	1802	1830	S14	W52	9087	07	19.8	38	2N	3	E		339	F
	RAMY	23	1754	1754	1811	S12	W52	9087	07	19.8	17	1F	3	E		130	
0706	RAMY	23	1908	1911	1916	N23	W66	9095	07	18.7	8	SF	3	E		15	
0707	HOLL	23	1916	1921	1924	S11	W50	9087	07	20.0	8	SF	3	E		15	F
0708	HOLL	23	2001	2008	2011	N22	W70	9088	07	18.4	10	SF	3	E		43	
0709	HOLL	23	2004	2008	2011	N24	W65	9095	07	18.8	7	SF	3	E		24	
0710	HOLL	23	2122	2132	2154	S16	W50	9087	07	20.1	32	SF	3	E		45	
0711	HOLL	23	2158	2203	2206	S15	W50	9087	07	20.1	8	SF	3	E		41	
0712	HOLL	23	2204	2206	2223	N22	W70	9095	07	18.5	19	SF	3	E		35	
0713	HOLL	23	2229	2231	2232	N06	E13	9097	07	24.9	3	SF	3	E		16	
0714	HOLL	23	2249	2258	2313	S12	W55	9087	07	19.8	24	SF	3	E		23	
0715	HOLL	23	2314	2316	2342	N14	W76	9085	07	18.2	28	SF	3	E		21	FH
0716	HOLL	23	2356	2356	2359	N22	W71	9095	07	18.5	3	SF	3	E		10	
0717		23	2359	2403	2422	N22	W72	9095	07	18.5	23	SF				56	
	HOLL	23	2359	2403	2420	N22	W73	9095	07	18.4	21	SF	3	E		28	
	LEAR	24	0001	0010	0025	N23	W70	9095	07	18.6	24	SF	2	E		85	
0718	LEAR	24	0045	0048	0054	S12	W57	9087	07	19.7	9	SF	3	E		29	
0719	LEAR	24	0148	0159	0210	N06	E04	9097	07	24.4	22	1F	3	E		142	FH
0720	LEAR	24	0202	0208	0218	N23	W72	9095	07	18.5	16	SF	3	E		59	
0721	LEAR	24	0402	0402	0441	N15	W26	9090	07	22.2	39	SF	3	E		30	
0722	LEAR	24	0531	0534	0541	N11	W27	9090	07	22.2	10	SF	4	E		30	

H $\alpha$  SOLAR FLARES

JULY 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								USAf Region							Mo	Day	Time (UT)	
0723	LEAR	24	0614	0619	0639	N13	W28	9090	07	22.1	25	SF	4	E		55		F
0724	LEAR	24	0816	0823	0842	N12	W30	9090	07	22.1	26	SF	4	E		42		F
0725	LEAR	24	0849	0850	0854	N22	W76	9095	07	18.5	5	SF	4	E		15		
0726	RAMY	24	1311	1311	1327	N13	W34	9090	07	22.0	16	SF	3	E		25		
0727	RAMY	24	1312	1313	1325	S22	W18	9094	07	23.2	13	SF	3	E		26		
0728		24	14011	14012	1407	S12	W64	9087	07	19.8	6	SF				16		
	RAMY	24	1401	1401	1407	S09	W66	9087	07	19.6	6	SF	3	E		18		
	HOLL	24	1402	1403	1407	S14	W61	9087	07	20.0	5	SF	3	E		15		
0729		24	1444	14451	1448	N15	W31	9090	07	22.3	4	SF				30		H
	HOLL	24	1444	1445	1448	N14	W31	9090	07	22.3	4	SF	3	E		34		H
	RAMY	24	1444	1446	1448	N16	W31	9090	07	22.3	4	SF	3	E		25		
0730		24	15373	15431	1547	N12	W35	9090	07	22.0	10	SF				39		H
	HOLL	24	1537	1544	1548	N12	W35	9090	07	22.0	11	SF	3	E		49		H
	RAMY	24	1540	1543	1546	N13	W35	9090	07	22.0	6	SF	3	E		29		
0731		24	1558	16011	1616	S32	E44	9100	07	28.1	18	SF				44		
	HOLL	24	1558	1601	1618	S31	E45	9100	07	28.2	20	SF	3	E		53		
	RAMY	24	1558	1602	1613	S33	E43	9100	07	28.1	15	SF	3	E		35		
0732		24	1617	16181	1623	N14	W32	9090	07	22.3	6	SF				26		F
	HOLL	24	1617	1618	1623	N12	W31	9090	07	22.3	6	SF	3	E		26		
	RAMY	24	1617	1619	1623	N16	W33	9090	07	22.2	6	SF	3	E		25		F
0733	RAMY	24	1631	1632	1648	N12	W36	9090	07	22.0	17	SF	3	E		17		
0734	HOLL	24	1712	1712	1721	S14	E41	9101	07	27.8	9	SF	3	E		12		
0735	RAMY	24	1736	1740	1744	N23	W81	9088	07	18.5	8	SF	3	E		14		
0736	RAMY	24	1805	1805	1811	N24	W81	9088	07	18.5	6	SF	3	E		15		
0737	RAMY	24	1812	1816	1822	N24	W82	9088	07	18.4	10	SF	3	E		14		
0738		24	18101	1815*	1832	N07	W04	9097	07	24.4	22	SF				14		F
	RAMY	24	1810	1815	1831	N07	W04	9097	07	24.4	21	SF	3	E		13		F
	HOLL	24	1811	1829	1832	N07	W05	9097	07	24.4	21	SF	3	E		14		
0739	RAMY	24	1838	1846	1850	N24	W81	9088	07	18.5	12	SF	3	E		17		
0740	RAMY	24	1839	1844	1854	N08	W05	9097	07	24.4	15	SF	3	E		20		F
0741	RAMY	24	1846	1846	1902	N13	W32	9090	07	22.4	16	SF	3	E		12		
0742	RAMY	24	1924	1937	1957	N07	W05	9097	07	24.4	33	SF	3	E		15		
0743		24	1959	20011	2008	N14	W38	9090	07	22.0	9	SF				90		
	HOLL	24	1959	2001	2006	N13	W39	9090	07	21.9	7	SF	3	E		92		
	RAMY	24	1959	2002	2009	N15	W37	9090	07	22.0	10	SF	3	E		87		
0744	RAMY	24	2000	2000	2008	S13	W62	9087	07	20.1	8	SF	3	E		24		
0745	RAMY	24	2019	2021	2027	S14	W63	9087	07	20.1	8	SF	3	E		16		
0746	RAMY	24	2022	2023	2026	N13	W37	9090	07	22.0	4	SF	3	E		23		
0747	RAMY	24	2109	2109	2114	N05	W05	9097	07	24.5	5	SF	3	E		10		
0748	RAMY	24	2110	2110	2115	N13	W37	9090	07	22.1	5	SF	3	E		22		
0749	HOLL	24	2231	2246	2256	S17	W63	9087	07	20.1	25	SF	3	E		80		
0750	HOLL	24	2244	2249	2306	N08	W08	9097	07	24.3	22	SF	3	E		45		

H $\alpha$  SOLAR FLARES

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Jul 00

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
		25	0010		0016			No Flare Patrol												
0751	LEAR	25	0038E	0038U	0122D	N15	W27	9090	07	23.0	44D	SF		2	E			14		
		25	0041		0057			No Flare Patrol												
0752	HOLL	25	0058E	0058U	0112D	N13	W41	9090	07	21.9	14D	SF		2	E			40		
		25	0113		0513			No Flare Patrol												
0753	LEAR	25	0247E	0252U	0322D	N06	W08	9097	07	24.5	35D	2B		3	E			372		EH
0754	LEAR	25	0442E	0501U	0605D	S13	W71	9087	07	19.8	83D	2N		3	E			256		F
0755	LEAR	25	0454E	0454U	0511D	S13	E34	9101	07	27.8	17D	SF		3	E			19		
		25	0538		0716			No Flare Patrol												
		25	0819		1022			No Flare Patrol												
0756	SVTO	25	1019	1020	1031	N06	W12	9097	07	24.5	12	SF		3	E			20		FH
0757		25	12352	1239	1257	N14	W46	9090	07	22.0	22	SN						78		F
	RAMY	25	1235	1239	1304	N15	W46	9090	07	22.0	29	SN		3	E			99		F
	SVTO	25	1237	1239	1250	N13	W46	9090	07	22.0	13	SF		3	E			56		F
0758	RAMY	25	1323	1324	1330	N06	W13	9097	07	24.6	7	SF		3	E			23		
0759		25	14404	14462	1501	N05	W14	9097	07	24.6	21	SF						37		FH
	RAMY	25	1440	1447	1505	N06	W14	9097	07	24.6	25	SF		3	E			60		
	HOLL	25	1441	1446	1505	N04	W13	9097	07	24.6	24	SF		3	E			40		
	SVTO	25	1444	1448	1454	N06	W14	9097	07	24.6	10	SF		3	E			12		FH
0760		25	15591	1601*	1627	N06	W14	9097	07	24.6	28	SF						56		
	RAMY	25	1559	1627	1649	N06	W15	9097	07	24.5	50	SF		3	E			91		
	HOLL	25	1600	1601	1605	N05	W14	9097	07	24.6	5	SF		3	E			22		
0761		25	1606*	16271	1638	N05	W15	9097	07	24.5	32	SF						40		FH
	HOLL	25	1606	1627	1644	N04	W15	9097	07	24.5	38	SF		3	E			69		FH
	SVTO	25	1623	1628	1633	N06	W15	9097	07	24.5	10	SF		2	E			11		F
0762	HOLL	25	1842	1851	1913	N05	W16	9097	07	24.6	31	1B		3	E			196		H
0763	HOLL	25	2034	2034	2040	N05	W13	9097	07	24.9	6	SF		3	E			20		
0764	HOLL	25	2146	2150	2205	N13	W52	9090	07	22.0	19	SF		3	E			49		
0765	LEAR	26	0218	0218	0222	S13	W89	9087	07	19.4	4	SF		5	E			13		
0766	LEAR	26	0315	0315	0326	S13	W89	9087	07	19.4	11	SF		5	E			33		
0767	LEAR	26	0406	0417	0431	N11	W52	9090	07	22.2	25	SF		4	E			28		F
0768		26	0509	0510	0526	N12	W49	9090	07	22.5	17	SN						43		F
	LEAR	26	0509	0510	0526	N13	W48	9090	07	22.6	17	SN		4	E			59		F
	SVTO	26	0510E	0517U	0526D	N12	W50	9090	07	22.4	16D	SF		2	E			27		F
0769	LEAR	26	0531	0532	0535	S14	W84	9087	07	19.9	4	SF		4	E			13		
0770	LEAR	26	0554	0558	0602	S16	W88	9087	07	19.6	8	SF		4	E			46		
0771	LEAR	26	0825E	0826U	0829	S11	W89	9087	07	19.6	4D	SF		4	E			40		
0772	RAMY	26	1225	1227	1233	N11	W64	9090	07	21.7	8	SF		4	E			18		F
0773	RAMY	26	1256	1256	1302	N18	W48	9090	07	22.9	6	SF		4	E			17		F
0774	RAMY	26	1509	1513	1518	N16	W62	9090	07	21.9	9	SF		4	E			12		
0775	RAMY	26	1528	1538	1544	N16	W62	9090	07	21.9	16	SF		4	E			14		

H $\alpha$  SOLAR FLARES

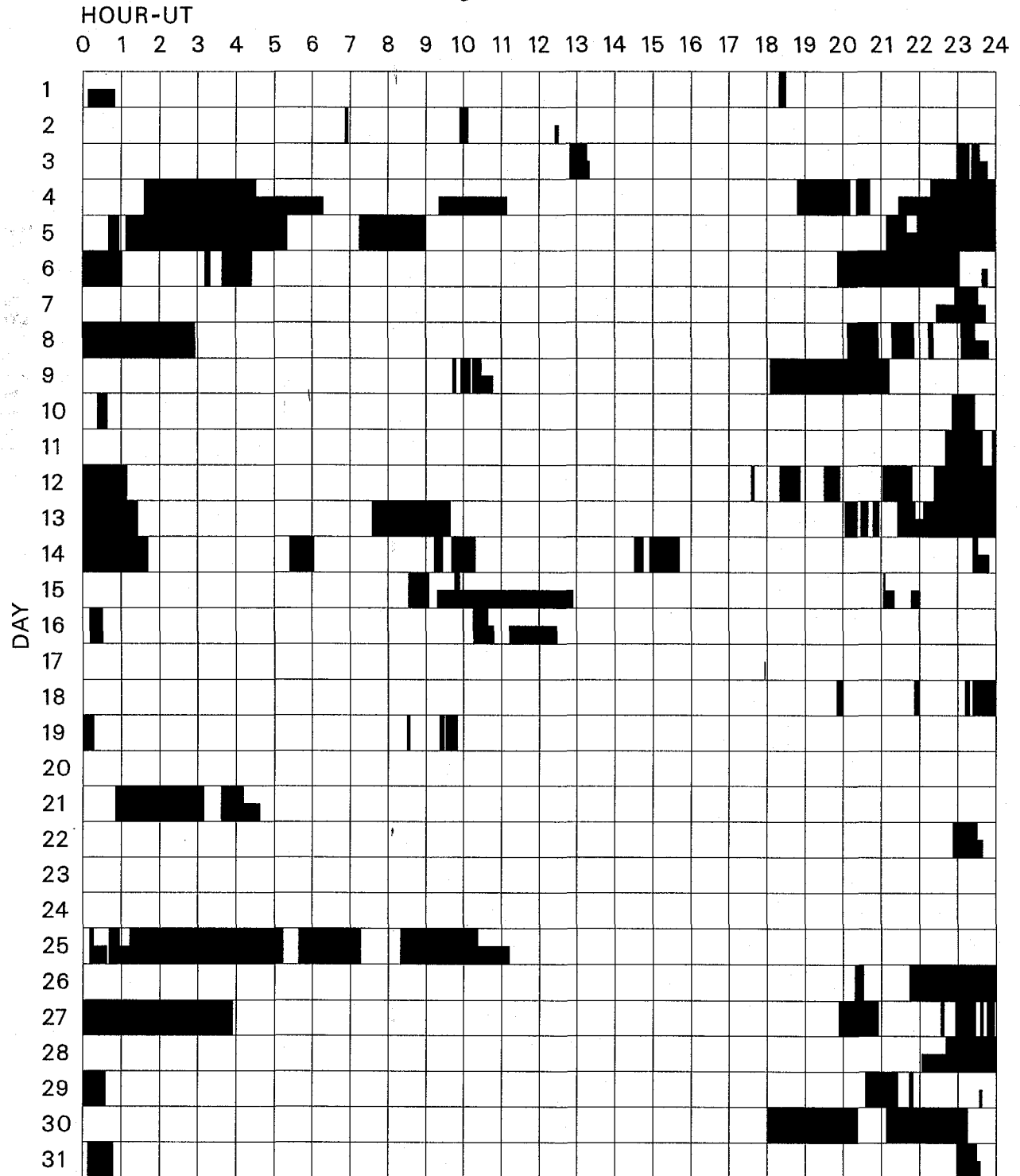
JULY 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks		
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0776	RAMY	26	1551	1554	1602	N17	W59	9090	07	22.2	11	SF		4	E		14				
0777		26	1615	1617	1640	N14	W60	9090	07	22.1	25	SF					26		F		
	HOLL	26	1615	1617	1628	N12	W60	9090	07	22.1	13	SF		3	E		21				
	RAMY	26	1615	1617	1653	N15	W59	9090	07	22.2	38	SF		4	E		31		F		
0778		26	1655	1658	1714	N12	W58	9090	07	22.3	19	SF					25		F		
	SVTO	26	1643E	1650U	1654D	N11	W57	9090	07	22.4	11D	SF		2	E		26		F		
	RAMY	26	1655	1658	1714	N14	W60	9090	07	22.2	19	SF		4	E		24		F		
0779	RAMY	26	1724	1726	1733	N15	W64	9090	07	21.9	9	SF		4	E		35				
0780	RAMY	26	1805	1807	1831	N08	W25	9097	07	24.9	26	SF		4	E		24		F		
0781		26	1917	19234	1933	N12	W60	9090	07	22.3	16	SF					29				
	RAMY	26	1917	1923	1932	N14	W62	9090	07	22.1	15	SF		3	E		26				
	HOLL	26	1917	1927	1934	N10	W59	9090	07	22.4	17	SF		3	E		32				
		26	2018		2032	No Flare Patrol															
		26	2144		2400	No Flare Patrol															
		27	0000		0354	No Flare Patrol															
0782	LEAR	27	0410E	0411U	0420D	N10	W72	9090	07	21.8	10D	SB		4	E		89		E		
0783	SVTO	27	0421E	0425U	0428D	N06	W68	9090	07	22.1	7D	SF		2	E		34				
0784		27	04383	04432	0501	N06	W35	9097	07	24.6	23	SF					22		F		
	LEAR	27	0438	0443	0507	N07	W36	9097	07	24.5	29	SF		3	E		32		F		
	SVTO	27	0441	0445	0455	N05	W34	9097	07	24.6	14	SF		3	E		13				
0785	LEAR	27	0518	0518	0524	N13	W68	9090	07	22.1	6	SF		4	E		33				
0786	LEAR	27	0545	0556	0619	N12	W66	9090	07	22.3	34	SF		4	E		80		F		
0787		27	07151	07191	0744	N06	W32	9097	07	24.9	29	SF					20		F		
	KANZ	27	0715	0719	0741	N06	W30	9097	07	25.0	26	SF		2	C						
	LEAR	27	0716	0720	0748	N07	W34	9097	07	24.7	32	SF		4	E		20		F		
0788	KANZ	27	0724	0728	0745	N06	W37	9097	07	24.5	21	SF		2	C						
0789	LEAR	27	0916	0918U	0921D	N13	W64	9090	07	22.5	5D	SF		3	E		70				
0790	KANZ	27	1112	1113	1115	N12	W70	9090	07	22.2	3	SF		2	C						
0791	RAMY	27	1222	1224	1230	N15	W71	9090	07	22.1	8	SF		3	E		53		H		
0792		27	12402	1242	1248	N14	W72	9090	07	22.1	8	SF					28				
	RAMY	27	1240	1242	1249	N16	W73	9090	07	22.0	9	SF		3	E		28				
	KANZ	27	1242	1242	1246	N13	W71	9090	07	22.2	4	SF		2	C						
0793	RAMY	27	1307	1307	1312	N17	W72	9090	07	22.1	5	SF		3	E		10				
0794	RAMY	27	1354	1354	1358	N17	W73	9090	07	22.0	4	SF		3	E		16				
0795	RAMY	27	1447	1447	1452	N14	W80	9090	07	21.6	5	SF		3	E		12				
0796	RAMY	27	1514	1516	1521	N15	W73	9090	07	22.1	7	SF		3	E		18		F		
0797	RAMY	27	1604	1618	1633	N16	W75	9090	07	22.0	29	SF		3	E		61		F		
0798	RAMY	27	1740	1740	1751	S21	E36	9102	07	30.5	11	SF		3	E		13				
0799	RAMY	27	1743	1744	1750	N15	W75	9090	07	22.1	7	SF		3	E		10				
0800		27	18399	18437	1856	N07	W40	9097	07	24.8	17	SF					24				
	RAMY	27	1839	1843	1855	N08	W39	9097	07	24.8	16	SF		3	E		26				
	HOLL	27	1848	1850	1856	N06	W40	9097	07	24.8	8	SF		3	E		23				



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

JULY 2000

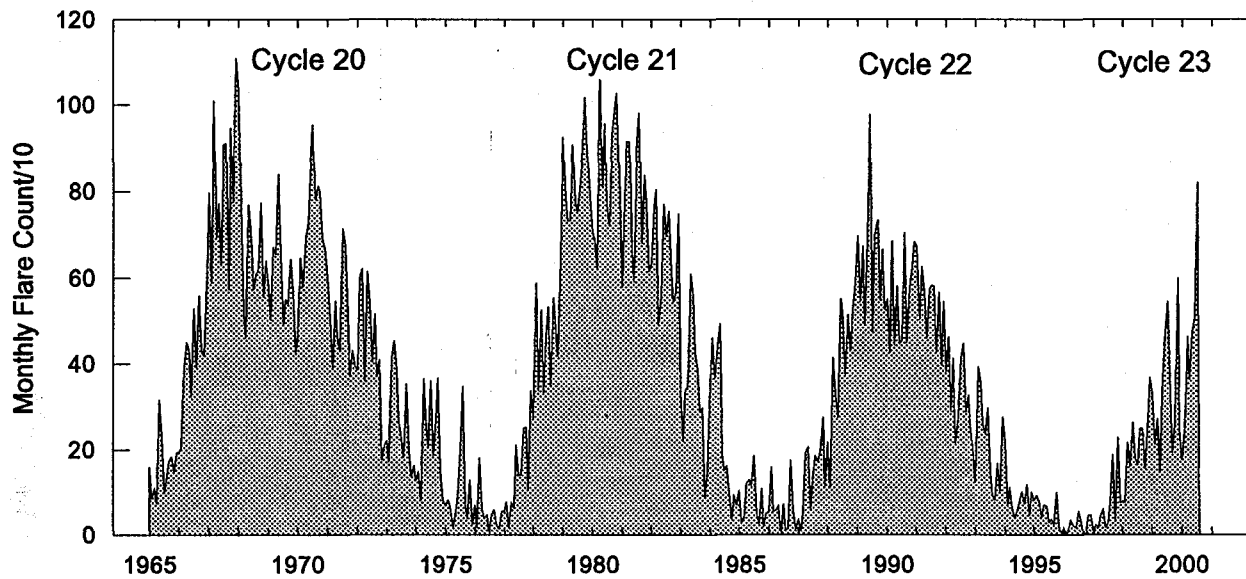


Times of no flare patrol, shown here as shades areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual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

Holloman                      Urumqi                      Learmonth                      Ramey                      San Vito  
Mitaka                              Kharkov                      Kanzelhoehe

# Monthly Counts of Grouped Solar Flares

## Jan 1965 - Jul 2000



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818						3043

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

JULY 2000

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
01	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	2800	PENT	1 S	0026.0	0031.0	8.0	8.0			
	204	IZMI	7 C	0727.1	0727.4	0.5	16.0			
	204	IZMI	7 C	0755.6	0755.8	0.2	15.0			
	200	HIRA	8 S	0842.0	0842.0	1.0	50.0			0
	245	LEAR	8 S	0842.0	0843.0	1.0	50.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0842.6	0843.1	1.7	129.0			
	245	SVTO	8 S	0843.0	0843.0	U	57.0			QL=4 ST=2 TYP=3
	127	TORN	40 F	0908.0	0915.5	18.0	10.0	5.0		
	204	IZMI	41 F	1118.8	1119.4	0.8	16.0			
	33	UPIC	46 C	1232.0	1235.3	7.7				
	610	SGMR	8 S	1237.0	1237.0	U	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1302.0	1303.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1302.0	1303.0	1.0	140.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	2107.0	2107.0	1.0	50.0			0
	2840	PEKG	1 S	2319.0	2323.0	8.0	12.4			
200	HIRA	8 S	2349.0	2349.0	1.0	220.0			WR	
02	410	LEAR	8 S	0234.0	0234.0	U	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0352.0	0353.0	2.0	66.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0450.0	0453.0	6.0	8.9			
	245	SVTO	8 S	0557.0	0557.0	1.0	81.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0838.4	0838.5	0.3	22.0			
	204	IZMI	41 F	1141.2	1141.4	0.3	26.0			
	245	PALE	8 S	1951.0	1951.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1951.0	1951.0	U	130.0			QL=4 ST=2 TYP=3
03	235	CUBA	44 NS	1300.0E		530.0D		7.0		
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	204	IZMI	41 F	0603.3	0603.6	0.8	35.0			
	204	IZMI	42 SER	0727.6	0727.8	1.1	23.0			
	33	UPIC	45 C	1000.5	1001.0	1.0				
04	280	CUBA	44 NS	1300.0E		360.0D		18.0		
	235	CUBA	44 NS	1300.0E		360.0D		8.0		
	245	SGMR	43 NS	1354.0	1405.0	14.0	71.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1354.0	1405.0	606.0	71.0			QL=4 ST=1 TYP=1
	245	LEAR	4 S/F	0352.0	0352.0	3.0	57.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0352.0	0352.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1248.0	1249.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1508.0	1508.0	1.0	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2223.0	2224.0	2.0	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2227.0	2228.0	1.0	53.0			QL=4 ST=2 TYP=3
05	235	CUBA	44 NS	1300.0E		530.0D		13.0		
	280	CUBA	44 NS	1300.0E		530.0D		22.0		
	245	PALE	43 NS	1636.0	1645.0	444.0	120.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1636.0	1744.0	443.0	410.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1636.0	1744.0	444.0	410.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1636.0	1645.0	444.0	80.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1636.0	1911.0	524.0	350.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2322.0	0005.0	127.0	120.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2322.0	0005.0U	38.0	120.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2322.0	2344.0U	38.0	110.0			QL=4 ST=1 TYP=1
	245	LEAR	8 S	0505.0	0505.0	1.0	89.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0505.0	0505.0	U	91.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0507.0	0507.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0508.0	0510.0	2.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0509.0	0510.0	1.0	150.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	0510.0	0510.0	1.0	300.0			0
	245	LEAR	8 S	0535.0	0535.0	1.0	54.0			QL=2 ST=2 TYP=3
	204	IZMI	7 C	0720.2	0720.2	0.3	161.0			
	245	SVTO	8 S	0722.0	0722.0	U	80.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0808.0	0809.0	1.0	67.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0940.9	0941.2	0.9	129.0			
	245	SVTO	8 S	0941.0	0941.0	U	130.0			QL=4 ST=2 TYP=3
204	IZMI	45 C	0955.4	0955.6	0.6	128.0				
204	IZMI	7 C	1008.2	1008.4	0.6	16.0				



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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
05	33	UPIC	45 C	1016.0	1016.5	1.0					
	204	IZMI	42 SER	1016.2	1016.5	0.8	68.0				
	245	SGMR	8 S	1021.0	1021.0	1.0	67.0			QL=4 ST=2 TYP=3	
	204	IZMI	7 C	1021.4	1021.6	0.3	80.0				
	204	IZMI	41 F	1023.7	1023.8	0.3	48.0				
	204	IZMI	25 R	1024.0	1028.2	44.0	37.0				
	204	IZMI	42 SER	1109.8	1111.9	7.9	31.0				
	33	UPIC	45 C	1218.0	1218.5	1.0					
	245	SGMR	8 S	1335.0	1336.0	2.0	97.0			QL=4 ST=2 TYP=3	
	245	SGMR	4 S/F	1339.0	1343.0	4.0	66.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1519.0	1519.0	U	50.0			QL=4 ST=2 TYP=3	
	6700	CUBA	2 S/F	1625.2	1626.7	2.3	9.0	4.0		00L	
	245	SVTO	8 S	1644.0	1645.0	1.0	79.0			QL=4 ST=2 TYP=3	
	245	SVTO	48 C	1711.0	1714.0	6.0	51.0			QL=4 ST=2 TYP=8	
	245	PALE	49 GB	1744.0	1744.0	U	510.0			QL=4 ST=2 TYP=6	
	2800	PENT	1 S	1907.0	1911.0	7.0	6.0				
	6700	CUBA	2 S/F	1910.8	1911.0	1.6	12.0	6.0		10L	
	200	HIRA	47 GB	2000.0	2001.0	1.0	900.0			0	
	280	CUBA	6 S	2001.0	2001.2	1.0	266.0				
	235	CUBA	6 S	2001.0	2001.2	1.0	35.0				
	2800	PENT	1 S	2133.0	2136.0	6.0	7.0				
	200	HIRA	47 GB	2136.0	2136.0	1.0	620.0			0	
	410	PALE	8 S	2255.0	2255.0	1.0	61.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2255.0	2255.0	1.0	61.0			QL=4 ST=2 TYP=3	
	200	HIRA	8 S	2311.0	2311.0	1.0	420.0			0	
	245	PALE	49 GB	2311.0	2311.0	1.0	1700.0			QL=4 ST=2 TYP=6	
	245	SGMR	49 GB	2311.0	2311.0	U	1800.0			QL=4 ST=2 TYP=6	
	06	204	IZMI	43 NS	0600.0		360.00		15.0		
		127	TORN	43 NS	0730.0		470.00		5.0		V=1
		245	LEAR	43 NS	0747.0	0752.0	73.0	82.0			QL=4 ST=2 TYP=1
245		LEAR	43 NS	0747.0	0752.0	973.0	82.0			QL=4 ST=1 TYP=1	
245		SVTO	43 NS	0809.0	1035.0	241.0	220.0			QL=2 ST=2 TYP=1	
245		SVTO	43 NS	0809.0	0809.0	951.0	59.0			QL=4 ST=1 TYP=1	
245		SGMR	43 NS	1049.0	1049.0	141.0	96.0			QL=4 ST=3 TYP=1	
245		SGMR	43 NS	1049.0	1049.0	141.0	96.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	1049.0	0000.0	791.0	96.0			QL=4 ST=1 TYP=1	
245		SGMR	43 NS	1049.0	0000.0	791.0	96.0			QL=4 ST=3 TYP=1	
245		SGMR	43 NS	1049.0	1113.0	791.0	96.0			QL=4 ST=3 TYP=1	
280		CUBA	44 NS	1300.0E		360.00		25.0			
235		CUBA	44 NS	1300.0E		420.00		16.0			
245		SGMR	43 NS	1558.0	1628.0	100.0	110.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	1558.0	1607.0	482.0	81.0			QL=4 ST=1 TYP=1	
245		SVTO	43 NS	1600.0	1628.0	66.0	100.0			QL=4 ST=2 TYP=1	
245		SVTO	43 NS	1600.0	1607.0	480.0	77.0			QL=4 ST=1 TYP=1	
245		PALE	43 NS	1636.0	1643.0	62.0	100.0			QL=4 ST=2 TYP=1	
245		PALE	43 NS	1636.0	1643.0U	444.0	100.0			QL=4 ST=1 TYP=1	
245		PALE	43 NS	2012.0	2031.0	228.0	120.0			QL=4 ST=1 TYP=1	
245		PALE	43 NS	2012.0	2246.0	228.0	170.0			QL=4 ST=1 TYP=1	
245		PALE	43 NS	2012.0	2246.0	409.0	170.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	2015.0	2044.0	60.0	180.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	2015.0	2016.0	225.0	51.0			QL=4 ST=1 TYP=1	
245		SGMR	43 NS	2213.0	2243.0	35.0	58.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	2213.0	2213.0	107.0	57.0			QL=4 ST=1 TYP=1	
245		LEAR	43 NS	2322.0	2325.0U	28.0	74.0			QL=4 ST=2 TYP=1	
245		LEAR	43 NS	2322.0	2325.0U	38.0	74.0			QL=4 ST=1 TYP=1	
245		LEAR	8 S	0240.0	0241.0	2.0	200.0			QL=4 ST=2 TYP=3	
200		HIRA	8 S	0255.0	0255.0	1.0	440.0			0	
245		LEAR	49 GB	0255.0	0255.0	1.0	580.0			QL=4 ST=2 TYP=6	
245		PALE	49 GB	0255.0	0255.0	1.0	890.0			QL=4 ST=2 TYP=6	
200		HIRA	8 S	0318.0	0318.0	1.0	300.0			0	
245		LEAR	8 S	0518.0	0519.0	1.0	140.0			QL=4 ST=2 TYP=3	
245		SVTO	8 S	0518.0	0519.0	2.0	150.0			QL=4 ST=2 TYP=3	
204		IZMI	41 F	0716.5	0716.7	0.5	99.0				
245	SVTO	48 C	0719.0	0719.0	6.0	60.0			QL=4 ST=2 TYP=8		
410	SVTO	8 S	0730.0	0731.0	2.0	66.0			QL=4 ST=2 TYP=3		
410	LEAR	8 S	0731.0	0733.0	2.0	64.0			QL=4 ST=3 TYP=3		
410	LEAR	8 S	0731.0	0733.0	2.0	64.0			QL=4 ST=2 TYP=3		
245	SVTO	48 C	0746.0	0752.0	10.0	110.0			QL=4 ST=2 TYP=8		

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean			
06	245	SVTO	8 S	0815.0	0815.0	1.0	60.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	0815.0	0815.0	1.0	94.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	0957.0	0957.0	U	84.0			QL=2 ST=2 TYP=3	
	245	SGMR	8 S	1035.0	1035.0	U	170.0			QL=4 ST=2 TYP=3	
	9500	CUBA	20 GRF	1227.0	1243.0U	173.0D	9.0				SURISE
	610	SGMR	4 S/F	1231.0	1236.0	10.0	120.0				QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1231.0	1236.0	689.0	120.0				QL=4 ST=1 TYP=3
	610	SVTO	4 S/F	1231.0	1236.0U	10.0	110.0				QL=2 ST=2 TYP=3
	1415	SGMR	4 S/F	1233.0	1235.0	6.0	420.0				QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1233.0	1235.0	7.0	430.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1233.0	1235.0	687.0	420.0				QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1235.0	1238.0	6.0	53.0				QL=4 ST=2 TYP=3
	6700	CUBA	22 GRF	1316.0	1543.0	166.0	9.0	4.0			00L
	245	SVTO	8 S	1429.0	1429.0	U	64.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1435.0	1435.0	U	60.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1458.0	1458.0	1.0	77.0				QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1458.0	1458.0	542.0	77.0				QL=4 ST=1 TYP=3
	245	SGMR	8 S	1549.0	1549.0	1.0	140.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1549.0	1549.0	1.0	120.0				QL=4 ST=2 TYP=3
	245	SGMR	20 GRF	1559.0	1607.0	481.0	81.0				QL=4 ST=1 TYP=2
	6700	CUBA	1 S	1727.6	1728.4	2.0	5.0	2.0			41L
	245	SGMR	4 S/F	2000.0	2007.0	7.0	55.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	2037.0	2041.0	115.0	89.0				0
	2800	HIRA	3 S	2040.0	2041.0	4.0	70.0				
	8800	SGMR	4 S/F	2040.0	2041.0	7.0	170.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2040.0	2041.0	7.0	190.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2040.0	2041.0	200.0	190.0				QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	2040.0	2041.0	200.0	170.0				QL=4 ST=1 TYP=3
	8800	PALE	8 S	2041.0	2041.0	U	54.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	2041.0	2041.0	U	78.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2041.0	2041.0	6.0	89.0				QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2041.0	2041.0	U	46.0				QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2041.0	2041.0	U	34.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2041.0	2041.0	199.0	89.0				QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	2041.0	2041.0	199.0	34.0				QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	2041.0	2041.0	199.0	46.0				QL=4 ST=1 TYP=3
	410	SGMR	8 S	2310.0	2310.0	2.0	87.0				QL=4 ST=2 TYP=3
	07	245	LEAR	43 NS	0535.0	0731.0	174.0	130.0			QL=4 ST=2 TYP=1
		245	LEAR	43 NS	0535.0	0603.0	1105.0	130.0			QL=4 ST=1 TYP=1
		245	LEAR	43 NS	0535.0	0540.0	1105.0	54.0			QL=4 ST=1 TYP=1
245		SVTO	43 NS	0546.0	0634.0	185.0	920.0			QL=2 ST=2 TYP=1	
245		SVTO	43 NS	0546.0	0549.0	1094.0	70.0			QL=2 ST=1 TYP=1	
204		IZMI	44 NS	0600.0E		360.0D		40.0			
127		TORN	44 NS	0620.0E		560.0D		50.0			V=1
33		UPIC	43 NS	0901.5		265.5					
245		SVTO	43 NS	1011.0	1339.0	389.0	530.0				QL=2 ST=2 TYP=1
245		SGMR	43 NS	1011.0	1147.0	767.0	190.0				QL=4 ST=2 TYP=1
245		SGMR	43 NS	1011.0	1011.0	829.0	68.0				QL=4 ST=1 TYP=1
245		SVTO	43 NS	1011.0	1011.0	829.0	73.0				QL=2 ST=1 TYP=1
410		SVTO	43 NS	1017.0	1052.0	94.0	190.0				QL=2 ST=2 TYP=1
410		SVTO	43 NS	1017.0	1019.0	823.0	95.0				QL=2 ST=1 TYP=1
410		SGMR	43 NS	1019.0	1114.0	93.0	150.0				QL=4 ST=2 TYP=1
410		SGMR	43 NS	1019.0	1019.0	821.0	54.0				QL=4 ST=1 TYP=1
235		CUBA	44 NS	1300.0E		340.0D		22.0			
280		CUBA	44 NS	1300.0E		340.0D		36.0			
245		LEAR	8 S	0128.0	0128.0	U	62.0				QL=2 ST=2 TYP=3
245		PALE	4 S/F	0128.0	0128.0	8.0	92.0				QL=4 ST=2 TYP=3
245		LEAR	8 S	0154.0	0155.0	1.0	87.0				QL=2 ST=2 TYP=3
245		LEAR	8 S	0203.0	0203.0	1.0	65.0				QL=2 ST=2 TYP=3
500		HIRA	42 SER	0319.0	0321.0	5.0	30.0				WL
610		LEAR	8 S	0319.0	0321.0	2.0	53.0				QL=4 ST=2 TYP=3
410		LEAR	4 S/F	0319.0	0322.0	5.0	74.0				QL=4 ST=2 TYP=3
410		PALE	8 S	0321.0	0322.0	2.0	91.0				QL=4 ST=2 TYP=3
245		LEAR	8 S	0432.0	0432.0	U	67.0				QL=4 ST=2 TYP=3
245		LEAR	4 S/F	0522.0	0524.0	3.0	82.0				QL=2 ST=2 TYP=3
245		SVTO	8 S	0523.0	0524.0	2.0	89.0				QL=4 ST=2 TYP=3
410		LEAR	8 S	0543.0	0545.0	2.0	86.0				QL=4 ST=2 TYP=3
610	LEAR	8 S	0544.0	0545.0	1.0	32.0				QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
07	410	SVTO	8 S	0544.0	0545.0	1.0	77.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	0940.8	1044.7	185.20	130.0			
	1415	SVTO	4 S/F	1019.0	1021.0	3.0	65.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1020.0	1021.0	1.0	70.0			QL=4 ST=2 TYP=3
	3000	IZMI	23 GRF	1056.8	1100.2	11.2	30.0	10.0		
	33	UPIC	46 C	1058.0	1059.5	4.0				
	610	SGMR	8 S	1059.0	1100.0	1.0	61.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1059.0	1100.0	2.0	55.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	1109.4	1116.9	11.5	44.0	12.0		
	33	UPIC	46 C	1114.0	1116.5	7.0				
	1415	SGMR	4 S/F	1116.0	1117.0	5.0	34.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1116.0	1116.0	4.0	38.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1116.0	1117.0	5.0	28.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1116.0	1116.0	5.0	52.0			QL=4 ST=2 TYP=3
	3000	IZMI	29 PBI	1127.9	1135.8	47.9	14.0	5.3		
	245	SGMR	20 GRF	1129.0	1138.0	11.0	260.0			QL=4 ST=2 TYP=2
	245	SGMR	4 S/F	1129.0	1138.0	11.0	210.0			QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	1129.0	1134.0	12.0	82.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1129.0	1130.0	751.0	250.0			QL=4 ST=1 TYP=3
	610	SGMR	4 S/F	1129.0	1134.0	751.0	82.0			QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1130.0	1134.0	11.0	200.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1130.0	1134.0	750.0	200.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1131.0	1133.0	15.0	58.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1131.0	1133.0	749.0	58.0			QL=4 ST=1 TYP=3
	2695	SGMR	8 S	1132.0	1134.0	2.0	28.0			QL=4 ST=2 TYP=3
	2800	PENT	41 F	1805.0	1816.0	85.0	15.0			
	6700	CUBA	23 GRF	1813.0	1817.0	73.0	13.0	6.0		00L
	610	SGMR	4 S/F	1816.0	1817.0	6.0	94.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1816.0	1817.0	344.0	94.0			QL=4 ST=1 TYP=3
	410	SGMR	48 C	1817.0	1822.0	6.0	61.0			QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	1817.0	1817.0	5.0	20.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1817.0	1822.0	343.0	61.0			QL=4 ST=1 TYP=8
	1415	SGMR	4 S/F	1817.0	1817.0	343.0	20.0			QL=4 ST=1 TYP=3
	2695	SGMR	8 S	1818.0	1818.0	1.0	15.0			QL=4 ST=2 TYP=3
	8800	SGMR	20 GRF	1818.0	1823.0	15.0	22.0			QL=4 ST=2 TYP=2
	4995	SGMR	4 S/F	1818.0	1818.0	15.0	23.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1818.0	1818.0	342.0	15.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1818.0	1818.0	342.0	15.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	1818.0	1818.0	342.0	23.0			QL=4 ST=1 TYP=3
	15400	SGMR	20 GRF	1822.0	1833.0	11.0	23.0			QL=4 ST=2 TYP=2
245	PALE	8 S	1931.0	1931.0		420.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1931.0	1931.0		340.0			QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1931.0	1931.0	269.0	420.0			QL=4 ST=1 TYP=3	
245	PALE	8 S	1935.0	1936.0	1.0	140.0			QL=4 ST=2 TYP=3	
08	245	LEAR	43 NS	0113.0	0310.0	502.0	380.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0113.0	0113.0	1367.0	90.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0433.0	0459.0	489.0	210.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0433.0	0438.0	1167.0	53.0			QL=2 ST=1 TYP=1
	204	IZMI	44 NS	0600.0E		360.00		30.0		
	127	TORN	43 NS	0650.0		420.00		3.0		V=1
	245	SGMR	43 NS	1006.0	1132.0	818.0	140.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1006.0	1006.0	834.0	86.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1952.0	1917.0	248.0	110.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1952.0	2207.0	543.0	270.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2321.0	2342.0	131.0	140.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2321.0	2339.0U	39.0	120.0			QL=4 ST=1 TYP=1
	245	PALE	8 S	0206.0	0206.0		130.0			QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0309.0	0311.0	2.0	160.0			0
	500	HIRA	8 S	0310.0	0311.0	1.0	50.0			WL
	500	HIRA	8 S	0629.0	0630.0	1.0	50.0			WL
	200	HIRA	8 S	0629.0	0630.0	1.0	100.0			0
	610	LEAR	8 S	0629.0	0629.0	1.0	72.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0629.0	0629.0	3.0	47.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0629.4	0629.8	2.1	544.0			
410	SVTO	8 S	0636.0	0636.0		56.0			QL=4 ST=2 TYP=3	
2840	PEKG	20 GRF	0718.0	0723.0	8.0	6.6				
410	SVTO	49 GB	0718.0	0719.0	1.0	1200.0			QL=4 ST=2 TYP=6	
245	LEAR	8 S	0719.0	0719.0		280.0			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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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean (Hz)	Int	Remarks
08	410	LEAR	49 GB	0719.0	0719.0		950.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	0719.0	0719.0		310.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0719.3	0719.3	0.2	1158.0	15.0		
	2695	LEAR	4 S/F	0731.0	0733.0	3.0	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0731.0	0732.0	3.0	60.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0731.0	0732.0	3.0	44.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0731.0	0733.0	3.0	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0731.0	0733.0	5.0	19.1			
	8800	SVTO	8 S	0731.0	0732.0	2.0	67.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0731.0	0732.0	1.0	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0731.0	0733.0	3.0	74.0			QL=4 ST=2 TYP=3
	5730	IRKU	46 C	0731.0	0733.2	6.5	59.0		U	
	3000	IZMI	7 C	0731.4	0733.1	4.5	42.0	13.0		
	1415	LEAR	8 S	0732.0	0733.0	2.0	77.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0732.0	0733.0	1.0	31.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0732.0	0733.0	2.0	81.0			QL=4 ST=2 TYP=3
	3000	IZMI	41 F	0742.4	0747.6	8.2	16.0	5.0		
	2840	PEKG	1 S	0755.0	0757.0	6.0	12.5			
	1415	LEAR	4 S/F	0756.0	0758.0	3.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0756.0	0758.0	3.0	56.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0756.0	0758.0	3.0	42.0			QL=4 ST=2 TYP=3
	3000	IZMI	42 SER	0756.3	0758.0	3.0	22.0	9.0		
	204	IZMI	42 SER	0756.4	0757.2	2.9	110.0			
	1415	SVTO	8 S	0757.0	0758.0	2.0	130.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0758.0	0759.0	1.0	80.0			WL
	410	SVTO	8 S	0758.0	0758.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0758.0	0758.0		420.0		U	QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0810.0	0815.2	11.0	40.0		U	
	204	IZMI	7 C	1132.6	1132.7	0.3	112.0			
	3000	IZMI	1 S	1202.3	1202.5	0.4	10.0	4.0		
	2800	PENT	29 PBI	1513.0	1520.0	68.0	14.0			
	2800	PENT	29 PBI	1903.0	1907.0	29.0	11.0			
	200	HIRA	8 S	2016.0	2017.0	1.0	260.0			0
	500	HIRA	46 C	2241.0	2310.0	50.0	50.0			WR
	2840	PEKG	1 S	2258.0	2301.0	6.0	3.4			
	610	PALE	48 C	2258.0	2310.0	24.0	97.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	2258.0	2312.0	31.0	140.0			QL=4 ST=2 TYP=8
	610	PALE	48 C	2258.0	2310.0	62.0	97.0			QL=4 ST=1 TYP=8
	610	PALE	4 S/F	2258.0	2300.0	62.0	60.0			QL=4 ST=1 TYP=3
	610	PALE	4 S/F	2258.0	2300.0	62.0	60.0			QL=4 ST=1 TYP=3
	410	PALE	48 C	2258.0	2309.0	62.0	130.0			QL=4 ST=1 TYP=8
	410	PALE	4 S/F	2258.0	2301.0	62.0	57.0			QL=4 ST=1 TYP=3
	245	PALE	49 GB	2259.0	2259.0		1400.0		U	QL=4 ST=2 TYP=6
610	SGMR	48 C	2259.0	2310.0	21.0	62.0			QL=4 ST=2 TYP=8	
410	SGMR	48 C	2259.0	2312.0	24.0	110.0			QL=4 ST=2 TYP=8	
410	SGMR	4 S/F	2259.0	2300.0	61.0	65.0			QL=4 ST=1 TYP=3	
610	SGMR	4 S/F	2259.0	2259.0	61.0	45.0			QL=4 ST=1 TYP=3	
410	SGMR	48 C	2259.0	2309.0	61.0	110.0			QL=4 ST=1 TYP=8	
1415	PALE	8 S	2300.0	2300.0	1.0	23.0			QL=4 ST=2 TYP=3	
245	SGMR	48 C	2300.0	2309.0	24.0	170.0			QL=2 ST=2 TYP=8	
245	SGMR	48 C	2300.0	2306.0	60.0	81.0			QL=2 ST=1 TYP=8	
245	SGMR	48 C	2300.0	2309.0	60.0	170.0			QL=2 ST=1 TYP=8	
245	SGMR	4 S/F	2300.0	2301.0	60.0	64.0			QL=2 ST=1 TYP=3	
09	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	5730	IRKU	1 S	0237.5	0238.5	4.5	32.0		U	
	8800	LEAR	8 S	0238.0	0239.0	1.0	54.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0255.0	0256.0	3.0	35.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0255.0	0256.0	3.0	81.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0255.0	0256.0	3.0	43.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0256.0	0257.0	7.0	60.0		U	
	2840	PEKG	1 S	0256.0	0258.0	5.0	3.4			
	15400	LEAR	8 S	0432.0	0433.0	1.0	66.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0432.0	0433.0	2.0	35.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0432.0	0433.0	2.0	62.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	0546.0	0546.0		75.0		U	QL=4 ST=2 TYP=3	
15400	LEAR	4 S/F	0719.0	0721.0	6.0	290.0			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 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
09	15400	SVTO	4 S/F	0719.0	0721.0	8.0	250.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0719.0	0722.0	5.0	240.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0719.0	0721.0	10.0	310.0			QL=4 ST=2 TYP=3
	2840	PEKG	20 GRF	0719.0	0722.0	10.0	8.5			
	5730	IRKU	4 S/F	0719.0	0721.9	8.0	218.0	U		
	4995	LEAR	4 S/F	0720.0	0721.0	4.0	90.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0720.0	0722.0	5.0	96.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0720.8	0722.7	30.4	15.0	6.0		
	245	SVTO	8 S	1001.0	1003.0	2.0	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1059.0	1100.0	1.0	99.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1653.0	1654.0	2.0	41.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1653.0	1654.0	2.0	310.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1654.0	1654.0	1.0	340.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	2006.0	2006.6	3.3	32.0	16.0		
	6700	CUBA	2 S/F	2006.2	2007.0	2.0	9.0	4.0		11L
	280	CUBA	6 S	2017.0	2017.6	1.0	36.0			
	235	CUBA	6 S	2017.0	2017.6	1.0	179.0			
	6700	CUBA	42 SER	2117.5	2118.3	17.5	27.0	6.0		7R
	9500	CUBA	42 SER	2131.5	2141.5	17.3	38.0	19.0		
	2800	PENT	20 GRF	2216.0	2222.0	16.0	10.0			
	2800	PENT	1 S	2336.0	2340.0	9.0	14.0			
	2840	PEKG	5 S	2338.0	2340.0	5.0	10.2			
	500	HIRA	8 S	2340.0	2340.0	1.0	280.0			0
5730	IRKU	1 S	2340.1	2340.8	4.9	40.0	U			
10	245	LEAR	43 NS	0140.0	0141.0	201.0	56.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0140.0	0141.0U	1340.0	56.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	0141.0	0340.0	164.0	200.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	0141.0	0143.0	1339.0	78.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0501.0	0501.0	22.0	55.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0501.0	0501.0	1139.0	55.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		25.0		
	245	SVTO	43 NS	0652.0	0738.0	125.0	140.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0652.0	0659.0	1028.0	76.0			QL=4 ST=1 TYP=1
	127	TORN	44 NS	0900.0E	1106.5	390.0D	110.0	12.0		V=1
	245	SVTO	43 NS	0941.0	1024.0	48.0	96.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	0941.0	1019.0	859.0	66.0			QL=4 ST=1 TYP=1
	280	CUBA	44 NS	1510.0E		320.0D		26.0		
	235	CUBA	44 NS	1510.0E		320.0D		16.0		
	245	PALE	43 NS	2318.0	2348.0	115.0	220.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	2318.0	2348.0U	42.0	220.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	2318.0	0000.0U	42.0				QL=4 ST=1 TYP=1
	5730	IRKU	46 C	0105.5	0109.8	9.5	104.0	U		
	2840	PEKG	5 S	0106.0	0109.0	7.0	10.2			
	245	LEAR	8 S	0659.0	0659.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0708.0	0710.0	3.0	63.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0737.8	0738.1	1.3	76.0			
	245	LEAR	8 S	0738.0	0738.0	U	100.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0753.5	0754.4	1.3	170.0			
	3000	IZMI	22 GRF	1024.7	1039.0	53.0	24.0	19.0		
	245	SGMR	8 S	1029.0	1029.0	1.0	57.0			QL=4 ST=2 TYP=3
	4995	SVTO	20 GRF	1029.0	1037.0	86.0	60.0			QL=4 ST=2 TYP=2
	4995	SVTO	20 GRF	1029.0	1037.0	86.0	60.0			QL=4 ST=3 TYP=2
	4995	SVTO	20 GRF	1029.0	1037.0	811.0	60.0			QL=4 ST=1 TYP=2
	8800	SVTO	20 GRF	1030.0	1049.0	92.0	93.0			QL=4 ST=3 TYP=2
	8800	SVTO	20 GRF	1030.0	1049.0	92.0	93.0			QL=4 ST=2 TYP=2
	8800	SVTO	20 GRF	1030.0	1049.0	810.0	93.0			QL=4 ST=1 TYP=2
2695	SVTO	20 GRF	1037.0	1037.0	20.0	23.0			QL=4 ST=2 TYP=2	
2695	SVTO	20 GRF	1037.0	1037.0	803.0	23.0			QL=4 ST=1 TYP=2	
2695	SVTO	4 S/F	1037.0	1037.0	803.0	23.0			QL=4 ST=1 TYP=3	
4995	SGMR	20 GRF	1039.0	1050.0U	29.0	36.0			QL=4 ST=2 TYP=2	
8800	SGMR	20 GRF	1039.0	1049.0U	27.0	53.0			QL=4 ST=2 TYP=2	
2695	SGMR	20 GRF	1039.0	1050.0U	29.0	44.0			QL=4 ST=2 TYP=2	
15400	SVTO	20 GRF	1045.0	1049.0	70.0	63.0			QL=4 ST=3 TYP=2	
15400	SVTO	20 GRF	1045.0	1049.0	70.0	63.0			QL=4 ST=2 TYP=2	
15400	SVTO	20 GRF	1045.0	1049.0	795.0	63.0			QL=4 ST=1 TYP=2	
15400	SVTO	4 S/F	1045.0	1049.0	795.0	63.0			QL=4 ST=1 TYP=3	
410	SVTO	8 S	1046.0	1046.0	2.0	50.0			QL=4 ST=2 TYP=3	
15400	SGMR	4 S/F	1109.0	1114.0U	6.0	47.0			QL=4 ST=2 TYP=3	

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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	4995	SGMR	20	GRF	1122.0	1158.0	79.0	70.0		QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1122.0	1129.0	79.0	53.0		QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1122.0	1141.0	79.0	110.0		QL=4 ST=2 TYP=2
	2695	SGMR	20	GRF	1122.0	1224.0	79.0	52.0		QL=4 ST=2 TYP=2
	33	UPIC	3	S	1136.0	1136.5	1.0			
	8800	SGMR	4	S/F	1420.0	1420.0	580.0	49.0		QL=4 ST=1 TYP=3
	4995	SGMR	4	S/F	1420.0	1421.0	580.0	38.0		QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1420.0	1420.0	580.0	47.0		QL=4 ST=1 TYP=3
	2695	SGMR	4	S/F	1420.0	1421.0	580.0	24.0		QL=4 ST=1 TYP=3
	245	SGMR	8	S	1516.0	1517.0	2.0	74.0		QL=4 ST=2 TYP=3
	245	SVTO	8	S	1516.0	1517.0	1.0	55.0		QL=4 ST=2 TYP=3
	4995	SGMR	20	GRF	1521.0	1534.0	14.0	46.0		QL=4 ST=2 TYP=2
	8800	SGMR	20	GRF	1525.0	1525.0	8.0	51.0		QL=4 ST=2 TYP=2
	15400	SGMR	20	GRF	1525.0	1525.0	8.0	59.0		QL=4 ST=2 TYP=2
	2695	SGMR	20	GRF	1525.0	1528.0	8.0	27.0		QL=4 ST=2 TYP=2
	245	SGMR	8	S	1618.0	1618.0	2.0	60.0		QL=4 ST=2 TYP=3
	245	SGMR	8	S	1640.0	1641.0	1.0	50.0		QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1640.0	1641.0	440.0	50.0		QL=4 ST=1 TYP=3
	2800	PENT	29	PBI	1829.0	1837.0	63.0	47.0		
	9500	CUBA	21	GRF	1830.0	1908.0	68.0	18.0	9.0	
	9500	CUBA	46	C	1831.2	1835.5	6.8	102.0		
	2695	SGMR	4	S/F	1835.0	1837.0	13.0	61.0		QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1835.0	1837.0	13.0	96.0		QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1835.0	1837.0	14.0	150.0		QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1835.0	1837.0	13.0	130.0		QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1835.0	1837.0	325.0	150.0		QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1835.0	1837.0	325.0	96.0		QL=4 ST=1 TYP=3
	4995	SGMR	4	S/F	1835.0	1837.0	325.0	130.0		QL=4 ST=1 TYP=3
	15400	PALE	8	S	1837.0	1837.0	U	41.0		QL=4 ST=2 TYP=3
	4995	PALE	8	S	1837.0	1837.0	1.0	54.0		QL=4 ST=2 TYP=3
	410	PALE	8	S	1859.0	1859.0	1.0	91.0		QL=4 ST=2 TYP=3
	410	SGMR	8	S	1859.0	1859.0	1.0	61.0		QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1913.0	1913.7	4.0	17.0	8.0	
	8800	SGMR	4	S/F	1914.0	1914.0	16.0	48.0		QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1914.0	1929.0	16.0	55.0		QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1915.0	1915.0	15.0	17.0		QL=4 ST=2 TYP=3
	245	PALE	8	S	1926.0	1927.0	1.0	220.0		QL=4 ST=2 TYP=3
	245	SGMR	8	S	1926.0	1927.0	2.0	170.0		QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1950.0	2005.0	53.0	27.0	13.0	
	4995	SGMR	4	S/F	1957.0	2001.0	8.0	360.0		QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	1958.0	2001.0	6.0	320.0		QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	1958.0	2001.0	4.0	120.0		QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1958.0	2000.0	3.0	120.0		QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	1958.0	2001.0	4.0	78.0		QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1958.0	1958.0	3.0	160.0		QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1958.0	2001.0	7.0	70.0		QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1958.0	2000.0	7.0	210.0		QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1958.0	1958.0	7.0	140.0		QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1958.0	1959.0	7.0	94.0		QL=4 ST=2 TYP=3
	8800	SGMR	49	GB	1958.0	2001.0	7.0	570.0		QL=4 ST=2 TYP=6
15400	SGMR	4	S/F	1958.0	2001.0	7.0	440.0		QL=4 ST=2 TYP=3	
2695	SGMR	4	S/F	1958.0	2000.0	7.0	120.0		QL=4 ST=2 TYP=3	
2695	SGMR	4	S/F	1958.0	2000.0	242.0	120.0		QL=4 ST=1 TYP=3	
410	SGMR	4	S/F	1958.0	2000.0	242.0	210.0		QL=4 ST=1 TYP=3	
245	SGMR	4	S/F	1958.0	1959.0	242.0	94.0		QL=4 ST=1 TYP=3	
610	SGMR	4	S/F	1958.0	1958.0	242.0	140.0		QL=4 ST=1 TYP=3	
9500	CUBA	46	C	1958.1	2001.0	6.3	329.0			
8800	PALE	49	GB	1959.0	2001.0	4.0	530.0		QL=4 ST=2 TYP=6	
500	HIRA	8	S	2000.0	2000.0	1.0	80.0		0	
15400	PALE	4	S/F	2000.0	2001.0	3.0	320.0		QL=4 ST=2 TYP=3	
245	PALE	8	S	2001.0	2001.0	U	68.0		QL=4 ST=2 TYP=3	
2800	HIRA	3	S	2034.0	2035.0	5.0	60.0		WL	
500	HIRA	4	S/F	2034.0	2035.0	2.0	40.0		0	
8800	SGMR	4	S/F	2034.0	2035.0	5.0	69.0		QL=4 ST=2 TYP=3	
1415	SGMR	4	S/F	2034.0	2035.0	5.0	110.0		QL=4 ST=2 TYP=3	
2695	SGMR	4	S/F	2034.0	2035.0	5.0	93.0		QL=4 ST=2 TYP=3	
410	SGMR	4	S/F	2034.0	2035.0	3.0	120.0		QL=4 ST=2 TYP=3	
15400	SGMR	4	S/F	2034.0	2035.0	5.0	44.0		QL=4 ST=2 TYP=3	
610	SGMR	4	S/F	2034.0	2035.0	3.0	71.0		QL=4 ST=2 TYP=3	

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

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Jul 00

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
10	245	SGMR	4 S/F	2034.0	2034.0	5.0	290.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2034.0	2035.0	5.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	2034.0	2035.0	206.0	120.0			QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	2034.0	2035.0	206.0	69.0			QL=4 ST=1 TYP=3
	610	SGMR	4 S/F	2034.0	2035.0	206.0	71.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	2034.0	2035.0	206.0	140.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	2034.0	2034.0	206.0	290.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	2034.0	2035.0	206.0	93.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	2034.0	2035.0	206.0	110.0			QL=4 ST=1 TYP=3
	9500	CUBA	2 S/F	2034.0	2035.2	3.5	43.0	21.0		
	410	SGMR	4 S/F	2105.0	2106.0	3.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	48 C	2107.0	2211.0	97.0	3200.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	2107.0	2210.0	98.0	2800.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	2107.0	2212.0	99.0	4400.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	2107.0	2212.0	100.0	3700.0			QL=4 ST=2 TYP=8
	2800	HIRA	47 GB	2107.0	2213.0	120.0	2800.0			WL
	8800	SGMR	48 C	2107.0	2157.0	173.0	190.0			QL=4 ST=1 TYP=8
	8800	SGMR	4 S/F	2107.0	2109.0	173.0	440.0			QL=4 ST=1 TYP=3
	4995	SGMR	48 C	2107.0	2157.0	173.0	220.0			QL=4 ST=1 TYP=8
	4995	SGMR	20 GRF	2107.0	2112.0	173.0	300.0			QL=4 ST=1 TYP=2
	4995	SGMR	4 S/F	2107.0	2109.0	173.0	220.0			QL=4 ST=1 TYP=3
	4995	SGMR	48 C	2107.0	2128.0	173.0	220.0			QL=4 ST=1 TYP=8
	2695	SGMR	48 C	2107.0	2112.0	173.0	150.0			QL=4 ST=1 TYP=8
	2695	SGMR	48 C	2107.0	2157.0	173.0	160.0			QL=4 ST=1 TYP=8
	15400	SGMR	48 C	2107.0	2112.0	173.0	570.0			QL=4 ST=1 TYP=8
	15400	SGMR	49 GB	2107.0	2109.0	173.0	730.0			QL=4 ST=1 TYP=6
	4995	SGMR	48 C	2107.0	2112.0	173.0	300.0			QL=4 ST=1 TYP=8
	8800	SGMR	48 C	2107.0	2112.0	173.0	550.0			QL=4 ST=1 TYP=8
	2695	SGMR	20 GRF	2107.0	2112.0	173.0	150.0			QL=4 ST=1 TYP=2
	8800	SGMR	48 C	2107.0	2125.0	173.0	250.0			QL=4 ST=1 TYP=8
	2695	SGMR	4 S/F	2107.0	2109.0	173.0	150.0			QL=4 ST=1 TYP=3
	1415	SGMR	48 C	2108.0	2213.0	101.0	1900.0			QL=4 ST=2 TYP=8
	1415	SGMR	4 S/F	2108.0	2108.0	172.0	150.0			QL=4 ST=1 TYP=3
	1415	SGMR	48 C	2108.0	2159.0	172.0	240.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	2109.0	2207.0	101.0	930.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	2109.0	2205.0	125.0	6600.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	2109.0	2208.0	129.0	11000.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	2109.0	2208.0	171.0	11000.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	2109.0	2205.0	171.0	6600.0			QL=4 ST=1 TYP=8
	610	SGMR	4 S/F	2109.0	2113.0	171.0	160.0			QL=4 ST=1 TYP=3
	610	SGMR	48 C	2109.0	2153.0	171.0	180.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	2109.0	2157.0	171.0	700.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	2109.0	2153.0	171.0	180.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	2109.0	2207.0	171.0	930.0			QL=4 ST=1 TYP=8
	245	SGMR	4 S/F	2109.0	2112.0	171.0	31.0			QL=4 ST=1 TYP=3
	245	SGMR	48 C	2109.0	2129.0	171.0	230.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	2109.0	2117.0	171.0	68.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	2109.0	2205.0	171.0	6900.0			QL=4 ST=1 TYP=8
	410	SGMR	4 S/F	2109.0	2111.0	171.0	42.0			QL=4 ST=1 TYP=3
	500	HIRA	47 GB	2112.0	2208.0	90.0	1800.0			WL
	2695	PALE	20 GRF	2117.0	2127.0	25.0	140.0			QL=4 ST=2 TYP=2
	8800	PALE	20 GRF	2117.0	2119.0	25.0	230.0			QL=4 ST=2 TYP=2
	1415	PALE	20 GRF	2117.0	2125.0	25.0	84.0			QL=4 ST=2 TYP=2
	4995	PALE	20 GRF	2117.0	2119.0	31.0	220.0			QL=4 ST=2 TYP=2
	610	PALE	48 C	2117.0	2207.0	97.0	1200.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	2117.0	2210.0	100.0	2600.0			QL=4 ST=2 TYP=8
	410	PALE	48 C	2117.0	2205.0	111.0	7200.0			QL=4 ST=2 TYP=8
	1415	PALE	48 C	2117.0	2125.0	163.0	84.0			QL=4 ST=1 TYP=8
	410	PALE	48 C	2117.0	2157.0	163.0	860.0			QL=4 ST=1 TYP=8
	610	PALE	48 C	2117.0	2153.0	163.0	220.0			QL=4 ST=1 TYP=8
	15400	PALE	4 S/F	2117.0	2117.0	163.0	270.0			QL=4 ST=1 TYP=3
	2695	PALE	48 C	2117.0	2127.0	163.0	140.0			QL=4 ST=1 TYP=8
	610	PALE	48 C	2117.0	2207.0	163.0	1200.0			QL=4 ST=1 TYP=8
	610	PALE	48 C	2117.0	2122.0	163.0	190.0			QL=4 ST=1 TYP=8
	4995	PALE	4 S/F	2117.0	2119.0	163.0	220.0			QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	2117.0	2119.0	163.0	230.0			QL=4 ST=1 TYP=3
	410	PALE	48 C	2117.0	2132.0	163.0	560.0			QL=4 ST=1 TYP=8
	410	PALE	48 C	2117.0	2205.0	163.0	7200.0			QL=4 ST=1 TYP=8
	410	PALE	48 C	2117.0	2205.0	163.0	7200.0			QL=4 ST=1 TYP=8

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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
10	245	PALE	48 C	2121.0	2208.0	113.0	13000.0			QL=4 ST=2 TYP=8	
	245	PALE	49 GB	2121.0	2124.0	159.0	820.0			QL=4 ST=1 TYP=6	
	245	PALE	49 GB	2121.0	2124.0	159.0	820.0			QL=4 ST=1 TYP=6	
	245	PALE	48 C	2121.0	2208.0	159.0	13000.0			QL=4 ST=1 TYP=8	
	245	PALE	48 C	2121.0	2205.0	159.0	7800.0			QL=4 ST=1 TYP=8	
	2840	PEKG	47 GB	2159.0E	2213.0	50.0D	3085.0				
11	204	IZMI	44 NS	0700.0E		420.0D		40.0			
	127	TORN	43 NS	0740.0		420.0		14.0		V=1	
	33	UPIC	43 NS	1018.0		275.0					
	280	CUBA	44 NS	1230.0E		560.0D		62.0			
	235	CUBA	44 NS	1230.0E		560.0D		32.0			
	245	SGMR	43 NS	1442.0	2215.0	535.0	360.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1442.0	2152.0U	558.0	190.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1442.0	2145.0U	558.0	180.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1442.0	1727.0U	558.0	180.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1442.0	1447.0U	558.0	110.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1442.0	2155.0U	558.0	250.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1507.0	1508.0	533.0	80.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1637.0	2215.0	637.0	420.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1637.0	1638.0U	443.0	72.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1637.0	1727.0U	443.0	220.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	2148.0	2207.0	61.0	110.0				QL=4 ST=2 TYP=1
	410	SGMR	43 NS	2148.0	2157.0	132.0	84.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	2148.0	2151.0	132.0	64.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	2150.0	2207.0	59.0	110.0				QL=4 ST=2 TYP=1
	410	PALE	43 NS	2150.0	2152.0	130.0	60.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2339.0	2342.0	21.0	79.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2339.0	0110.0	241.0	140.0				QL=4 ST=2 TYP=1
	245	LEAR	8 S	0005.0	0005.0	1.0	120.0				QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0343.0	0346.5	9.0	18.0			U	
	2840	PEKG	5 S	0413.0	0415.0	6.0	19.2				
	500	HIRA	8 S	0414.0	0415.0	1.0	80.0				WL
	610	LEAR	8 S	0414.0	0414.0	1.0	76.0				QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0414.0	0414.0	2.0	96.0				QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0414.0	0414.0	1.0	28.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0414.0	0414.0	1.0	32.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	0414.0	0415.0	1.0	74.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	0414.0	0415.0	2.0	97.0				QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0414.0	0415.0	2.0	88.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0815.1	0821.4	9.4	142.0				
	33	UPIC	46 C	0818.5	0819.0	3.5					
	127	TORN	45 C	0819.0	0822.0	5.0	130.0		20.0		
	610	LEAR	8 S	0821.0	0821.0	1.0	60.0				QL=4 ST=3 TYP=3
	410	LEAR	8 S	0821.0	0821.0	1.0	82.0				QL=4 ST=3 TYP=3
	245	LEAR	8 S	0821.0	0821.0	1.0	220.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0821.0	0821.0	1.0	220.0				QL=4 ST=3 TYP=3
	410	LEAR	8 S	0821.0	0821.0	1.0	82.0				QL=4 ST=2 TYP=3
	610	LEAR	8 S	0821.0	0821.0	1.0	60.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	0821.0	0821.0	1.0	68.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0821.0	0821.0	1.0	190.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0821.0	0821.0	1.0	90.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0935.0	0936.0	1.0	57.0				QL=2 ST=2 TYP=3
	245	SVTO	49 GB	0952.0	0953.0	1.0	710.0				QL=2 ST=2 TYP=6
204	IZMI	41 F	1125.0	1125.9	1.6	86.0					
8800	SGMR	48 C	1129.0	1139.0	39.0	360.0				QL=4 ST=2 TYP=8	
15400	SVTO	4 S/F	1134.0	1139.0	12.0	340.0				QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1134.0	1139.0	12.0	340.0				QL=4 ST=2 TYP=3	
15400	SGMR	4 S/F	1135.0	1139.0	30.0	310.0				QL=4 ST=2 TYP=3	
4995	SVTO	4 S/F	1136.0	1139.0	10.0	150.0				QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	1136.0	1139.0	32.0	180.0				QL=4 ST=2 TYP=3	
3000	IZMI	22 GRF	1137.4	1138.9	24.3	39.0		16.0			
2695	SVTO	4 S/F	1138.0	1139.0	8.0	26.0				QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	1138.0	1138.0	30.0	41.0				QL=4 ST=2 TYP=3	
3000	IZMI	22 GRF	1207.6	1215.2	14.6	24.0		9.0			
8800	SVTO	48 C	1213.0	1300.0	119.0	1200.0				QL=4 ST=2 TYP=8	
8800	SVTO	48 C	1213.0	1300.0	707.0	1200.0				QL=4 ST=1 TYP=8	
8800	SVTO	48 C	1213.0	1247.0	707.0	970.0				QL=4 ST=1 TYP=8	
204	IZMI	46 C	1213.5	1342.8	102.7	582.0					



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

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Jul 00

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
11	4995	SVTO	48 C	1214.0	1300.0	120.0	1600.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	1214.0	1300.0	706.0	1600.0			QL=4 ST=1 TYP=8
	4995	SVTO	4 S/F	1214.0	1237.0	706.0	84.0			QL=4 ST=1 TYP=3
	9500	CUBA	28 PRE	1226.0E	1241.0	15.0D	73.0	36.0		SUNRISE
	3000	IZMI	46 C	1228.6	1300.7	71.0	1211.0	282.0		
	15400	SVTO	48 C	1230.0	1300.0	102.0	720.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1230.0	1347.0	690.0	180.0			QL=4 ST=1 TYP=8
	15400	SVTO	48 C	1230.0	1247.0	690.0	570.0			QL=4 ST=1 TYP=8
	280	CUBA	49 GB	1230.0E	1342.7	163.0D	771.0			
	235	CUBA	49 GB	1230.0E	1342.7	163.0D	992.0			
	245	SVTO	48 C	1232.0	1348.0	96.0	1800.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1232.0	1300.0	102.0	1500.0			QL=4 ST=2 TYP=8
	1415	SVTO	48 C	1232.0	1347.0	102.0	3700.0			QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1232.0	1300.0	688.0	1500.0			QL=4 ST=1 TYP=8
	245	SVTO	48 C	1232.0	1246.0	688.0	270.0			QL=4 ST=1 TYP=8
	245	SVTO	48 C	1232.0	1348.0	688.0	1800.0			QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1232.0	1347.0	688.0	3700.0			QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1232.0	1247.0	688.0	610.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1233.0	1350.0	95.0	8500.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1233.0	1348.0	129.0	2000.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1233.0	1350.0	129.0	10000.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1233.0	1350.0	687.0	10000.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	1233.0	1318.0	687.0	1200.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	1233.0	1348.0	687.0	2000.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1233.0	1247.0	687.0	170.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1233.0	1300.0	687.0	800.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1233.0	1319.0	687.0	4200.0			QL=4 ST=1 TYP=8
	245	SGMR	48 C	1233.0	1342.0	687.0	1800.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1233.0	1350.0	687.0	8500.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1233.0	1247.0	687.0	150.0			QL=4 ST=1 TYP=8
	1415	SGMR	48 C	1234.0	1347.0	128.0	3600.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1234.0	1301.0	686.0	720.0			QL=4 ST=1 TYP=8
	1415	SGMR	48 C	1234.0	1246.0	686.0	310.0			QL=4 ST=1 TYP=8
	1415	SGMR	48 C	1234.0	1347.0	686.0	3600.0			QL=4 ST=1 TYP=8
	15400	SGMR	48 C	1235.0	1300.0	127.0	610.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1235.0	1300.0	685.0	610.0			QL=4 ST=1 TYP=8
	610	SVTO	48 C	1236.0	1350.0	84.0	8500.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1236.0	1300.0	126.0	1600.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1236.0	1300.0	126.0	1300.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1236.0	1351.0	126.0	11000.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1236.0	1300.0	684.0	1300.0			QL=4 ST=1 TYP=8
	4995	SGMR	4 S/F	1236.0	1237.0	684.0	29.0			QL=4 ST=1 TYP=3
	4995	SGMR	48 C	1236.0	1300.0	684.0	1300.0			QL=4 ST=1 TYP=8
	2695	SGMR	48 C	1236.0	1300.0	684.0	1600.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1236.0	1319.0	684.0	2300.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1236.0	1257.0	684.0	690.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1236.0	1247.0	684.0	280.0			QL=4 ST=1 TYP=8
	610	SGMR	48 C	1236.0	1351.0	684.0	11000.0			QL=4 ST=1 TYP=8
	610	SVTO	48 C	1236.0	1350.0	684.0	8500.0			QL=4 ST=1 TYP=8
	610	SVTO	48 C	1236.0	1247.0	684.0	270.0			QL=4 ST=1 TYP=8
	8800	SGMR	48 C	1237.0	1300.0	114.0	820.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1237.0	1300.0	683.0	820.0			QL=4 ST=1 TYP=8
	8800	SGMR	48 C	1237.0	1300.0	683.0	820.0			QL=4 ST=1 TYP=8
	8800	SGMR	48 C	1237.0	1247.0	683.0	710.0			QL=4 ST=1 TYP=8
	9500	CUBA	47 GB	1241.4	1300.8	79.0	1242.0			
	2800	PENT	41 F	1333.0	1347.0	103.0	281.0			
	3000	IZMI	29 PBI	1342.9	1347.8	18.6	185.0	64.0		
	9500	CUBA	46 C	1343.0	1347.3	17.6	158.0			
	9500	CUBA	30 PBI	1419.4		217.0	26.0	13.0		
	245	SGMR	4 S/F	1458.0	1500.0	3.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1458.0	1501.0	3.0	81.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1506.0	1508.0	3.0	80.0			QL=4 ST=2 TYP=3
	9500	CUBA	4 S/F	1554.0	1556.7	8.0	19.0	9.0		
	2800	PENT	24 R	1842.0	1853.0	50.0	10.0			
	6700	CUBA	21 GRF	1848.0	1853.0	172.0D	31.0	15.0		3R SUNSET
	9500	CUBA	21 GRF	1849.0	1854.0	214.0D	15.0			SUNSET
	9500	CUBA	1 S	1958.0	1958.4	1.3	10.0	5.0		
	6700	CUBA	1 S	1958.0	1958.5	1.4	10.0	5.0		6L
	6700	CUBA	2 S/F	2035.0	2036.7	3.5	11.0	5.0		30L

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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
11	245	LEAR	4 S/F	2322.0	2322.0U	9.0	98.0			QL=4 ST=2 TYP=3
12	204	IZMI	44 NS	0600.0E		390.0D		60.0		
	127	TORN	43 NS	1030.0		230.0		100.0		V=0
	33	UPIC	43 NS	1055.0		189.5				
	245	SGMR	43 NS	1107.0	1108.0U		151.0	170.0		QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1107.0	1108.0U	773.0		170.0		QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1111.0	1116.0	148.0		130.0		QL=2 ST=2 TYP=1
	245	SVTO	43 NS	1111.0	1116.0	769.0		130.0		QL=2 ST=1 TYP=1
	235	CUBA	44 NS	1300.0E		450.0D		34.0		
	280	CUBA	44 NS	1300.0E		510.0D		51.0		
	245	SGMR	43 NS	1605.0	1946.0	447.0		350.0		QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1605.0	1606.0	475.0		70.0		QL=4 ST=1 TYP=1
	245	PALE	43 NS	1639.0	1816.0U	441.0		110.0		QL=4 ST=1 TYP=1
	245	PALE	43 NS	1639.0	1649.0U	441.0		85.0		QL=4 ST=1 TYP=1
	245	PALE	43 NS	1639.0	0009.0U	441.0		310.0		QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1642.0	1649.0	438.0		72.0		QL=2 ST=1 TYP=1
	2840	PEKG	5 S	0355.0	0358.0	5.0		10.7		
	500	HIRA	46 C	0453.0	0453.0	7.0		30.0		MR
	5730	IRKU	46 C	0454.0	0459.0	18.8		120.0	U	
	4995	LEAR	4 S/F	0455.0	0458.0	9.0		90.0		QL=4 ST=2 TYP=3
	410	SVTO	8 S	0455.0	0456.0	1.0		140.0		QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0455.0	0459.0	10.0		40.0		0
	2840	PEKG	3 S	0455.0	0458.5	11.0		39.8		
	410	LEAR	8 S	0456.0	0456.0	U		170.0		QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0456.0	0458.0	7.0		96.0		QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0456.0	0458.0	7.0		86.0		QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0456.0	0458.0	7.0		78.0		QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0456.0	0456.0	1144.0		170.0		QL=4 ST=1 TYP=3
	610	LEAR	8 S	0457.0	0457.0	U		51.0		QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0457.0	0458.0	3.0		44.0		QL=4 ST=2 TYP=3
	15400	LEAR	48 C	0458.0	0458.0	1.0		82.0		QL=4 ST=2 TYP=8
	8800	LEAR	8 S	0458.0	0458.0	1.0		77.0		QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0458.0	0458.0	1.0		43.0		QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0458.0	0458.0	1142.0		43.0		QL=4 ST=1 TYP=3
	245	LEAR	8 S	0906.0	0906.0	U		100.0		QL=4 ST=2 TYP=3
	245	SVTO	8 S	0906.0	0906.0	U		55.0		QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0913.2	0918.3	7.4		106.0		
	3000	IZMI	45 C	1011.7	1033.0	113.5		441.0	20.0	
	2840	PEKG	45 C	1027.0	1033.0	24.0		274.8		
	4995	SGMR	49 GB	1030.0	1032.0	27.0		980.0		QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	1030.0	1031.0	26.0		1700.0		QL=4 ST=2 TYP=6
	8800	SVTO	49 GB	1030.0	1031.0	27.0		1400.0		QL=4 ST=2 TYP=6
	2695	SGMR	20 GRF	1030.0	1033.0	34.0		430.0		QL=4 ST=2 TYP=2
	15400	SGMR	49 GB	1030.0	1031.0	34.0		1500.0		QL=4 ST=2 TYP=6
	15400	SVTO	49 GB	1030.0	1031.0	37.0		1600.0		QL=4 ST=2 TYP=6
	4995	SVTO	49 GB	1030.0	1032.0	31.0		980.0		QL=4 ST=2 TYP=6
	8800	SGMR	49 GB	1030.0	1031.0	810.0		1700.0		QL=4 ST=1 TYP=6
	4995	SGMR	49 GB	1030.0	1032.0	810.0		980.0		QL=4 ST=1 TYP=6
	15400	SGMR	49 GB	1030.0	1031.0	810.0		1500.0		QL=4 ST=1 TYP=6
	4995	SVTO	49 GB	1030.0	1032.0	810.0		980.0		QL=4 ST=1 TYP=6
	15400	SVTO	49 GB	1030.0	1031.0	810.0		1600.0		QL=4 ST=1 TYP=6
	8800	SVTO	49 GB	1030.0	1031.0	810.0		1400.0		QL=4 ST=1 TYP=6
	1415	SGMR	4 S/F	1031.0	1034.0	24.0		490.0		QL=4 ST=2 TYP=3
	1415	SVTO	49 GB	1031.0	1034.0	20.0		520.0		QL=4 ST=2 TYP=6
	2695	SVTO	4 S/F	1031.0	1033.0	20.0		390.0		QL=4 ST=2 TYP=3
	33	UPIC	32 ABS	1031.0	1035.0	24.0				
	1415	SGMR	4 S/F	1031.0	1034.0	809.0		490.0		QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1031.0	1033.0	809.0		390.0		QL=4 ST=1 TYP=3
	1415	SVTO	49 GB	1031.0	1034.0	809.0		520.0		QL=4 ST=1 TYP=6
	204	IZMI	46 C	1032.9	1056.6	71.9		245.0		
	610	SVTO	4 S/F	1034.0E	1034.0	29.0D		350.0		QL=2 ST=2 TYP=3
	610	SGMR	48 C	1034.0	1046.0	33.0		310.0		QL=4 ST=2 TYP=8
	410	SGMR	20 GRF	1034.0	1058.0	33.0		110.0		QL=4 ST=2 TYP=2
	610	SGMR	4 S/F	1034.0	1034.0	806.0		110.0		QL=4 ST=1 TYP=3
	410	SGMR	48 C	1034.0	1045.0	806.0		110.0		QL=4 ST=1 TYP=8
	610	SVTO	4 S/F	1034.0	1034.0	806.0		220.0		QL=4 ST=1 TYP=3
	245	SGMR	49 GB	1036.0	1037.0	31.0		520.0		QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1036.0	1037.0	804.0		520.0		QL=4 ST=1 TYP=6

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

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Jul 00

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
12	245	SVTO	49 GB	1037.0	1037.0	34.0	510.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1037.0	1037.0	34.0	510.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1037.0	1037.0	34.0	510.0			QL=4 ST=3 TYP=6
	245	SVTO	49 GB	1037.0	1037.0	803.0	510.0			QL=4 ST=1 TYP=6
	410	SVTO	4 S/F	1038.0	1039.0	26.0	95.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1114.0	1115.0	1.0	94.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1153.0	1155.0	11.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	20 GRF	1153.0	1157.0	11.0	180.0			QL=4 ST=2 TYP=2
	204	IZMI	45 C	1153.6	1155.4	9.3	142.0			
	1415	SGMR	4 S/F	1154.0	1155.0	8.0	33.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1154.0	1156.0	10.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1210.0	1211.0	4.0	96.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1210.0	1210.0	4.0	66.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1241.0	1241.0	3.0	53.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1241.0	1242.0	1.0	73.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1241.0	1242.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1337.0	1338.0	3.0	130.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1337.0	1338.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1338.0	1338.0	2.0	47.0			QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1600.0	1657.0	130.0	42.0	21.0		6R
	2800	PENT	40 F	1602.0	1610.0	30.0	9.0			
	6700	CUBA	46 C	1603.0U	1622.0		29.0			4R
	6700	CUBA	46 C	1603.0U	1611.0	28.0D	29.0			11R
	9500	CUBA	21 GRF	1604.0	1650.0	121.0	27.0	13.0		
	9500	CUBA	1 S	1609.8	1610.8	3.2	12.0	6.0		
	410	SGMR	8 S	1610.0	1610.0	U	63.0			QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1621.2	1622.0	2.8	35.0	17.0		
	9500	CUBA	3 S	1635.2	1635.8	1.8	150.0	75.0		
	6700	CUBA	45 C	1642.0	1653.0		26.0			27R
	9500	CUBA	1 S	1642.0	1643.0	2.8	14.0	7.0		
	4995	SGMR	4 S/F	1642.0	1642.0	5.0	65.0			QL=4 ST=2 TYP=3
	6700	CUBA	45 C	1642.0	1643.0	11.0	23.0	10.0		
	15400	PALE	8 S	1735.0	1736.0	1.0	120.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1735.0	1736.0	3.0	53.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1735.0	1736.0	3.0	45.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1735.0	1735.0	1.0	120.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1735.0	1735.0	3.0	180.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1735.0	1735.0	1.0	150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1735.0	1735.0	1.0	61.0			QL=4 ST=2 TYP=3
	6700	CUBA	4 S/F	1735.2	1736.0	4.0	100.0	50.0		2L
	8800	PALE	8 S	1736.0	1736.0	U	150.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1835.0	1847.0	57.0	244.0			
	6700	CUBA	21 GRF	1835.0	1905.0	138.0D	32.0			00R 2028 OFF
	9500	CUBA	28 PRE	1838.0	1842.3	10.3	72.0	36.0		
	15400	PALE	48 C	1841.0	1848.0	17.0	950.0			QL=4 ST=2 TYP=8
	15400	PALE	48 C	1841.0	1848.0	319.0	950.0			QL=4 ST=1 TYP=8
	15400	PALE	49 GB	1841.0	1845.0	319.0	740.0			QL=4 ST=1 TYP=6
	15400	SGMR	48 C	1842.0	1847.0	14.0	920.0			QL=4 ST=2 TYP=8
	15400	SGMR	49 GB	1842.0	1845.0	318.0	700.0			QL=4 ST=1 TYP=6
	6700	CUBA	47 GB	1842.2	1847.8	11.8	769.0			2R
9500	CUBA	47 GB	1842.3	1847.8	11.7	854.0				
8800	PALE	48 C	1843.0	1848.0	10.0	650.0			QL=4 ST=2 TYP=8	
2695	PALE	48 C	1843.0	1848.0	10.0	240.0			QL=4 ST=2 TYP=8	
4995	PALE	48 C	1843.0	1848.0	12.0	420.0			QL=4 ST=2 TYP=8	
4995	SGMR	48 C	1843.0	1847.0	13.0	390.0			QL=4 ST=2 TYP=8	
2695	SGMR	48 C	1843.0	1847.0	13.0	230.0			QL=4 ST=2 TYP=8	
8800	SGMR	48 C	1843.0	1847.0	11.0	530.0			QL=4 ST=2 TYP=8	
2695	PALE	4 S/F	1843.0	1845.0	317.0	180.0			QL=4 ST=1 TYP=3	
2695	PALE	48 C	1843.0	1848.0	317.0	240.0			QL=4 ST=1 TYP=8	
4995	PALE	4 S/F	1843.0	1844.0	317.0	280.0			QL=4 ST=1 TYP=3	
4995	PALE	48 C	1843.0	1848.0	317.0	420.0			QL=4 ST=1 TYP=8	
8800	PALE	4 S/F	1843.0	1845.0	317.0	370.0			QL=4 ST=1 TYP=3	
8800	SGMR	4 S/F	1843.0	1845.0	317.0	390.0			QL=4 ST=1 TYP=3	
2695	SGMR	4 S/F	1843.0	1845.0	317.0	190.0			QL=4 ST=1 TYP=3	
4995	SGMR	4 S/F	1843.0	1844.0	317.0	280.0			QL=4 ST=1 TYP=3	
1415	PALE	48 C	1844.0	1848.0	8.0	59.0			QL=4 ST=2 TYP=8	
1415	SGMR	48 C	1844.0	1848.0	12.0	54.0			QL=4 ST=2 TYP=8	
1415	PALE	4 S/F	1844.0	1845.0	316.0	39.0			QL=4 ST=1 TYP=3	
1415	SGMR	4 S/F	1844.0	1845.0	316.0	34.0			QL=4 ST=1 TYP=3	

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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
12	9500	CUBA	29 PBI	1854.0		32.0	30.0	15.0		
	9500	CUBA	46 C	2002.0	2009.6	26.00	186.0			2028 OFF
	2695	PALE	49 GB	2003.0	2011.0	36.0	530.0			QL=4 ST=2 TYP=6
	1415	PALE	20 GRF	2003.0	2022.0	50.0	250.0			QL=4 ST=2 TYP=2
	2695	PALE	49 GB	2003.0	2011.0	237.0	530.0			QL=4 ST=1 TYP=6
	1415	PALE	4 S/F	2003.0	2010.0	237.0	200.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	2004.0	2009.0	28.0	460.0			QL=4 ST=2 TYP=3
	1415	SGMR	20 GRF	2004.0	2022.0	28.0	240.0			QL=4 ST=2 TYP=2
	2695	SGMR	4 S/F	2004.0	2009.0	28.0	490.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2004.0	2010.0	32.0	430.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2004.0	2010.0	236.0	430.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	2004.0	2005.0	236.0	79.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	2004.0	2009.0	236.0	490.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	2004.0	2009.0	236.0	460.0			QL=4 ST=1 TYP=3
	6700	CUBA	46 C	2005.00	2009.6	23.00	320.0			19R
	8800	PALE	4 S/F	2007.0	2010.0	16.0	230.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2007.0	2009.0	23.0	250.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2007.0	2010.0	233.0	230.0			QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	2007.0	2009.0	233.0	250.0			QL=4 ST=1 TYP=3
	15400	PALE	4 S/F	2008.0	2010.0	17.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	48 C	2008.0	2011.0	24.0	180.0			QL=4 ST=2 TYP=8
	15400	SGMR	4 S/F	2008.0	2009.0	24.0	130.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2008.0	2010.0	232.0	150.0			QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	2008.0	2009.0	232.0	130.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	2008.0	2008.0	232.0	170.0			QL=4 ST=1 TYP=3
	2800	PENT	29 PBI	2133.0	2139.0	59.0	196.0			
	2695	PALE	4 S/F	2139.0	2140.0	3.0	170.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2139.0	2140.0	3.0	230.0			QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2139.0	2140.0	4.0	190.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2139.0	2139.0	3.0	190.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2139.0	2140.0	3.0	330.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2139.0	2139.0	5.0	200.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2139.0	2139.0	2.0	220.0			QL=4 ST=2 TYP=3
1415	SGMR	4 S/F	2139.0	2140.0	5.0	180.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	2139.0	2139.0	3.0	310.0			QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	2139.0	2139.0	5.0	220.0			QL=4 ST=2 TYP=3	
245	LEAR	8 S	2344.0	2344.0		140.0			QL=4 ST=2 TYP=3	
15400	LEAR	46 C	2354.0	0003.0	6.0	39.0			QL=4 ST=1 TYP=8	
13	245	LEAR	43 NS	0421.0	0831.0	1179.0	250.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	0421.0	0425.0	1179.0	61.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	0421.0	0450.0	1179.0	77.0			QL=4 ST=1 TYP=1
	245	LEAR	44 NS	0421.0E	0926.00	316.00	360.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0443.0	0911.0	769.0	650.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0443.0	0831.0	1157.0	270.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0443.0	0450.0	1157.0	70.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0600.0E		231.00		90.0		
	127	TORN	44 NS	0620.0E		560.00		40.0		V=1
	245	SGMR	43 NS	0953.0	1211.0	665.0	390.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0953.0	0953.0	847.0	80.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	0953.0	1211.0	847.0	390.0			QL=4 ST=1 TYP=1
	280	CUBA	44 NS	1300.0E		530.00		35.0		
	235	CUBA	44 NS	1300.0E		530.00		25.0		
	245	PALE	43 NS	1814.0	0000.0	224.0	110.0			QL=4 ST=3 TYP=1
	245	PALE	43 NS	1814.0	0000.0	224.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1814.0	0000.0	346.0				QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2321.0	2331.0	30.0	56.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2321.0	2326.00	39.0	51.0			QL=4 ST=1 TYP=1
	200	HIRA	8 S	0009.0	0009.0	1.0	110.0			0
	5730	IRKU	4 S/F	0218.0	0218.7	3.2	14.0			U
	200	HIRA	8 S	0235.0	0235.0	1.0	160.0			0
	245	LEAR	8 S	0235.0	0235.0		140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0337.0	0337.0		70.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0438.0	0443.0	6.0	110.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0441.0	0442.0	3.0	68.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0442.0	0442.0		71.0			QL=4 ST=2 TYP=3
2840	PEKG	5 S	0446.0	0447.0	3.0	13.6				
2840	PEKG	1 S	0500.0	0502.0	5.0	2.7				
610	LEAR	8 S	0501.0	0501.0	2.0	240.0			QL=4 ST=2 TYP=3	

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

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Jul 00

JULY            2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
13	610	SVTO	8 S	0501.0	0502.0	1.0	220.0			QL=4 ST=2 TYP=3
	500	HIRA	47 GB	0502.0	0506.0	6.0	2080.0			0
	245	LEAR	8 S	0505.0	0506.0	1.0	280.0			QL=2 ST=2 TYP=3
	1415	LEAR	4 S/F	0505.0	0506.0	3.0	120.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0505.0	0507.0	2.0	390.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0505.0	0505.0	2.0	4900.0			QL=4 ST=2 TYP=6
	2840	PEKG	1 S	0505.0	0507.0	5.0	10.8			
	410	SVTO	49 GB	0505.0	0505.0	2.0	960.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	0505.0	0506.0	1.0	290.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0505.0	0507.0	2.0	400.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0506.0	0506.0	1.0	80.0			MR
	1415	SVTO	8 S	0506.0	0506.0	1.0	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0520.0	0522.0	3.0	9.5			
	5730	IRKU	45 C	0520.0	0525.0	14.0	32.0	U		
	500	HIRA	8 S	0521.0	0521.0	6.0	340.0			0
	200	HIRA	8 S	0521.0	0522.0	4.0	90.0			ML
	610	LEAR	8 S	0521.0	0521.0	U	160.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0521.0	0521.0	U	590.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0521.0	0521.0	U	590.0			QL=2 ST=2 TYP=6
	610	SVTO	8 S	0521.0	0521.0	U	150.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0523.0	0524.0	2.0	280.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0523.0	0525.0	5.0	14.9			
	245	LEAR	8 S	0524.0	0524.0	U	250.0			QL=2 ST=2 TYP=3
	410	LEAR	49 GB	0524.0	0524.0	2.0	850.0			QL=4 ST=2 TYP=6
	1415	LEAR	8 S	0524.0	0524.0	1.0	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0524.0	0524.0	1.0	220.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0524.0	0524.0	U	240.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0524.0	0524.0	3.0	1700.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0524.0	0524.0	1116.0	1700.0			QL=4 ST=1 TYP=6
	4995	SVTO	8 S	0525.0	0525.0	U	34.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0537.0	0540.0	5.0	14.9			
	500	HIRA	47 GB	0539.0	0540.0	2.0	1440.0			0
	200	HIRA	8 S	0540.0	0540.0	1.0	300.0			0
	245	SVTO	49 GB	0540.0	0540.0	U	2400.0			QL=2 ST=2 TYP=6
	610	SVTO	49 GB	0540.0	0540.0	U	580.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0540.0	0540.0	U	630.0			QL=4 ST=2 TYP=6
	610	LEAR	49 GB	0547.0	0548.0	2.0	520.0			QL=4 ST=2 TYP=6
	610	SVTO	49 GB	0547.0	0548.0	1.0	820.0			QL=4 ST=2 TYP=6
	2840	PEKG	5 S	0609.0	0611.0	4.0	16.5			
	8800	LEAR	8 S	0610.0	0611.0	2.0	45.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0610.0	0611.0	2.0	72.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0610.0	0611.0	2.0	64.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0610.0	0611.0	1.0	68.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0610.0	0611.0	1.0	81.0			QL=4 ST=2 TYP=3
	5730	IRKU	42 SER	0610.8	0611.3	13.2	100.0	U		
	4995	SVTO	8 S	0611.0	0611.0	U	66.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0611.0	0611.0	U	53.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0616.0	0618.0	5.0	19.2			
	204	IZMI	42 SER	0616.8	0617.8	1.7	299.0			
	610	LEAR	8 S	0617.0	0617.0	2.0	37.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0617.0	0617.0	2.0	94.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0617.0	0617.0	2.0	85.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0617.0	0617.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0617.0	0618.0	1.0	85.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0617.0	0617.0	1.0	83.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0617.0	0618.0	1.0	30.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0617.0	0618.0	1.0	48.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0618.0	0618.0	2.0	90.0			0
	500	HIRA	8 S	0635.0	0636.0	1.0	140.0			0
	610	LEAR	8 S	0636.0	0636.0	1.0	79.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0636.0	0636.0	U	47.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0636.0	0636.0	U	75.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0636.0	0636.0	U	160.0			QL=2 ST=2 TYP=3
	5730	IRKU	46 C	0636.0	0701.5	33.0	25.0	U		
	2840	PEKG	5 S	0648.0	0651.0	6.0	21.7			
	500	HIRA	8 S	0653.0	0655.0	8.0	390.0			0
	610	SVTO	8 S	0653.0	0654.0	2.0	160.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0653.0	0654.0	1027.0	160.0			QL=4 ST=1 TYP=3
	4995	SVTO	8 S	0654.0	0654.0	1.0	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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
13	245	SVTO	49 GB	0654.0	0654.0	1.0	2700.0			QL=2 ST=2 TYP=6	
	410	SVTO	49 GB	0654.0	0654.0	1.0	1200.0			QL=4 ST=2 TYP=6	
	8800	SVTO	8 S	0654.0	0654.0	1.0	46.0			QL=4 ST=2 TYP=3	
	4995	SVTO	4 S/F	0654.0	0654.0	1026.0	37.0			QL=4 ST=1 TYP=3	
	410	SVTO	49 GB	0654.0	0654.0	1026.0	1200.0			QL=4 ST=1 TYP=6	
	245	SVTO	49 GB	0654.0	0654.0	1026.0	2700.0			QL=4 ST=1 TYP=6	
	8800	SVTO	4 S/F	0654.0	0654.0	1026.0	46.0			QL=4 ST=1 TYP=3	
	204	IZMI	45 C	0654.6	0654.7	0.3	3027.0				
	200	HIRA	47 GB	0655.0	0655.0	8.0	540.0				WL
	2840	PEKG	3 S	0657.0	0700.0	17.0	134.2				
	2800	HIRA	3 S	0659.0	0701.0	9.0	140.0				ML
	8800	SVTO	4 S/F	0659.0	0700.0	4.0	250.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0659.0	0700.0	1021.0	250.0				QL=4 ST=1 TYP=3
	33	UPIC	45 C	0659.0	0659.5	3.5					
	3000	IZMI	45 C	0659.6	0701.0	7.8	245.0	32.0			
	245	SVTO	49 GB	0700.0	0701.0	1.0	1500.0				QL=2 ST=2 TYP=6
	610	SVTO	49 GB	0700.0	0700.0	1.0	2000.0				QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	0700.0	0700.0	2.0	580.0				QL=4 ST=2 TYP=6
	2695	SVTO	8 S	0700.0	0701.0	2.0	160.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0700.0	0701.0	3.0	270.0				QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0700.0	0700.0	1.0	1800.0				QL=4 ST=2 TYP=6
	15400	SVTO	8 S	0700.0	0700.0	1.0	140.0				QL=4 ST=2 TYP=3
	1415	SVTO	49 GB	0700.0	0700.0	1020.0	580.0				QL=4 ST=1 TYP=6
	410	SVTO	49 GB	0700.0	0700.0	1020.0	1800.0				QL=4 ST=1 TYP=6
	15400	SVTO	4 S/F	0700.0	0700.0	1020.0	140.0				QL=4 ST=1 TYP=3
	610	SVTO	49 GB	0700.0	0700.0	1020.0	2000.0				QL=4 ST=1 TYP=6
	3000	IZMI	20 GRF	0700.8	0700.9	0.4	36.0	18.0			
	204	IZMI	45 C	0700.8	0700.9	0.5	956.0				
	610	LEAR	4 S/F	0737.0	0738.0	8.0	79.0				QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0737.0	0739.0	5.0	6.8				
	5730	IRKU	4 S/F	0737.8	0738.7	10.2	44.0				U
	610	SVTO	8 S	0738.0	0738.0	1.0	100.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0805.0	0806.0	2.0	350.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	0805.0	0806.0	2.0	380.0				QL=2 ST=2 TYP=3
	245	LEAR	8 S	0821.0	0821.0	2.0	260.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	0821.0	0821.0	U	410.0				QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0830.0	0833.0	7.0	14.9				
	3000	IZMI	20 GRF	0834.7	0835.6	3.1	18.0	8.0			
	204	IZMI	42 SER	0836.4	0837.3	1.3	1018.0				
	204	IZMI	42 SER	0850.1	0851.6	2.3	380.0	4.0			
	245	LEAR	8 S	0910.0	0911.0	2.0	460.0				QL=2 ST=2 TYP=3
	410	SVTO	8 S	1122.0	1122.0	U	57.0				QL=4 ST=2 TYP=3
	33	UPIC	46 C	1129.0	1129.5	3.0					
	8800	SGMR	8 S	1205.0	1205.0	2.0	66.0				QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1205.0	1205.0	1.0	33.0				QL=4 ST=2 TYP=3
15400	SVTO	8 S	1205.0	1205.0	U	54.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1205.0	1205.0	1.0	67.0				QL=4 ST=2 TYP=3	
6700	CUBA	21 GRF	1309.0	1708.0	249.0	22.0	11.0			5R	
2800	PENT	41 F	1425.0	1446.0	33.0	14.0					
245	SVTO	8 S	1426.0	1427.0	1.0	90.0				QL=2 ST=2 TYP=3	
410	SVTO	8 S	1426.0	1426.0	1.0	430.0				QL=4 ST=2 TYP=3	
410	SVTO	8 S	1430.0	1431.0	1.0	110.0				QL=4 ST=2 TYP=3	
6700	CUBA	46 C	1430.0	1432.2	6.0	81.0	21.0			13R	
9500	CUBA	2 S/F	1430.2	1432.4	5.8	51.0	25.0				
4995	SGMR	4 S/F	1431.0	1432.0	3.0	55.0				QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1431.0	1432.0	3.0	75.0				QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1431.0	1432.0	2.0	52.0				QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1431.0	1432.0	2.0	43.0				QL=4 ST=2 TYP=3	
9500	CUBA	40 F	1441.0	1446.4	37.0	34.0	17.0				
6700	CUBA	40 F	1444.7	1449.3	9.3	31.0	15.0			33R	
610	SGMR	4 S/F	1446.0	1446.0	4.0	230.0				QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1446.0	1446.0	4.0	2100.0				QL=4 ST=2 TYP=6	
610	SVTO	8 S	1446.0	1446.0	U	370.0				QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1446.0	1446.0	U	42.0				QL=4 ST=2 TYP=3	
245	SVTO	49 GB	1446.0	1446.0	U	1400.0				QL=4 ST=2 TYP=6	
610	SGMR	4 S/F	1446.0	1446.0	554.0	230.0				QL=4 ST=1 TYP=3	
245	SGMR	49 GB	1446.0	1446.0	554.0	2100.0				QL=4 ST=1 TYP=6	
9500	CUBA	21 GRF	1545.0	1620.0	122.0	15.0	7.0				
245	SGMR	8 S	1547.0	1547.0	1.0	230.0				QL=4 ST=2 TYP=3	

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

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Jul 00

J U L Y                      2 0 0 0

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
13	410	SGMR	8 S	1547.0	1547.0	1.0	66.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1547.0	1547.0	U	150.0			QL=2 ST=2 TYP=3	
	410	SVTO	8 S	1547.0	1547.0	1.0	65.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1557.0	1557.0	2.0	52.0			QL=4 ST=2 TYP=3	
	9500	CUBA	1 S	1611.0	1612.0	12.0	14.0	7.0			
	245	PALE	4 S/F	1616.0	1646.0	30.0	100.0				QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1616.0	1616.8	1.4	40.0	20.0			9R
	8800	SGMR	4 S/F	1617.0	1617.0	3.0	120.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1617.0	1617.0	3.0	55.0				QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1617.0	1617.0	1.0	52.0				QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1617.0	1617.0	1.0	84.0				QL=4 ST=2 TYP=3
	9500	CUBA	2 S/F	1617.0	1617.7	1.2	97.0	48.0			
	410	SGMR	8 S	1629.0	1629.0	2.0	55.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1629.0	1629.0	1.0	98.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1741.0	1741.0	1.0	80.0				QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1806.0	1835.0	53.0	7.0				
	245	PALE	8 S	1807.0	1807.0	U	88.0				QL=4 ST=2 TYP=3
	6700	CUBA	21 GRF	1807.0	1819.0	103.0	17.0	8.0			12R
	9500	CUBA	21 GRF	1809.0	1820.0	104.0	16.0	8.0			
	6700	CUBA	45 C	1809.4	1814.8	13.9	59.0	10.0			9R
	9500	CUBA	1 S	1813.0	1814.9	3.0	45.0	22.0			
	8800	PALE	8 S	1814.0	1814.0	1.0	58.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1814.0	1814.0	1.0	61.0				QL=4 ST=2 TYP=3
	2800	PENT	1 S	1915.0	1920.0	11.0	4.0				
	6700	CUBA	1 S	2033.4	2034.9	3.4	10.0	5.0			30R
	2800	PENT	1 S	2042.0	2045.0	6.0	10.0				
	15400	PALE	8 S	2203.0	2203.0	1.0	110.0				QL=4 ST=2 TYP=3
	8800	PALE	8 S	2203.0	2203.0	1.0	75.0				QL=4 ST=2 TYP=3
	8800	SGMR	8 S	2203.0	2203.0	1.0	58.0				QL=4 ST=2 TYP=3
	15400	SGMR	8 S	2203.0	2203.0	1.0	120.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	2203.0	2203.0	117.0	120.0				QL=4 ST=1 TYP=3
	8800	SGMR	4 S/F	2203.0	2203.0	117.0	58.0				QL=4 ST=1 TYP=3
	9500	CUBA	1 S	2204.0	2204.7	3.0	65.0	32.0			
410	SGMR	8 S	2231.0	2231.0	1.0	96.0				QL=4 ST=2 TYP=3	
14	204	IZMI	44 NS	0600.0E		420.0D		40.0			
	127	TORN	44 NS	0620.0E		490.0D		30.0		V=1	
	245	SVTO	43 NS	0621.0	0708.0	55.0	69.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0621.0	0622.0	1059.0	55.0			QL=4 ST=1 TYP=1	
	610	SGMR	43 NS	1152.0	1152.0	12.0	96.0			QL=4 ST=2 TYP=1	
	610	SGMR	43 NS	1152.0	1152.0	728.0	96.0			QL=4 ST=1 TYP=1	
	235	CUBA	44 NS	1300.0E		450.0D		12.0			
	280	CUBA	44 NS	1347.0E		463.0D		21.0			
	2840	PEKG	1 S	0040.0	0043.0	5.0	5.2				
	2840	PEKG	5 S	0214.0	0216.0	5.0	15.6				
	410	LEAR	8 S	0215.0	0215.0	1.0	89.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	0215.0	0215.0	1.0	240.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	0216.0	0216.0	U	31.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0312.0	0313.0	3.0	260.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0313.0	0313.0	U	120.0				QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0337.0	0338.0	7.0	350.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	0337.0	0338.0	1.0	54.0				QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0356.0	0358.0	5.0	59.1				
	2840	PEKG	5 S	0440.0	0443.0	7.0	38.8				
	2800	HIRA	3 S	0441.0	0443.0	5.0	40.0				0
	5730	IRKU	4 S/F	0441.8	0442.6	3.2	26.0		U		
	4995	SVTO	8 S	0442.0	0443.0	1.0	41.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0442.0	0443.0	1.0	33.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0442.0	0443.0	1.0	42.0				QL=4 ST=2 TYP=3
	33	UPIC	45 C	0443.0	0444.0	1.5					
	204	IZMI	42 SER	0632.6	0633.1	0.7	101.0				
	3000	IZMI	22 GRF	0733.2	0740.2	19.7	20.0	9.0			
610	LEAR	8 S	0750.0	0750.0	U	150.0				QL=4 ST=2 TYP=3	
610	SVTO	8 S	0750.0	0750.0	U	160.0				QL=4 ST=2 TYP=3	
2840	PEKG	5 S	0814.0	0816.0	5.0	27.1					
200	HIRA	47 GB	0815.0	0816.0	1.0	1820.0				0	
500	HIRA	8 S	0815.0	0816.0	1.0	60.0				0	
4995	LEAR	8 S	0815.0	0815.0	1.0	46.0				QL=4 ST=2 TYP=3	
8800	LEAR	8 S	0815.0	0815.0	1.0	76.0				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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
14	245	LEAR	49 GB	0815.0	0815.0	1.0	1100.0			QL=4 ST=2 TYP=6	
	1415	SVTO	8 S	0815.0	0815.0	1.0	35.0			QL=4 ST=2 TYP=3	
	2695	SVTO	8 S	0815.0	0815.0	1.0	28.0			QL=4 ST=2 TYP=3	
	8800	SVTO	8 S	0815.0	0815.0	1.0	79.0			QL=4 ST=2 TYP=3	
	4995	SVTO	8 S	0815.0	0815.0	1.0	70.0			QL=4 ST=2 TYP=3	
	610	SVTO	8 S	0815.0	0815.0	U	30.0			QL=4 ST=2 TYP=3	
	245	SVTO	49 GB	0815.0	0815.0	1.0	1400.0			QL=4 ST=2 TYP=6	
	410	SVTO	8 S	0815.0	0815.0	1.0	57.0			QL=4 ST=2 TYP=3	
	204	IZMI	46 C	0815.3	0815.8	1.2	7023.0				
	3000	IZMI	20 GRF	0815.5	0815.8	0.8	33.0	16.0			
	5730	IRKU	4 S/F	0815.7	0815.9	2.3	140.0		U		
	33	UPIC	3 S	0816.0	0816.5	1.0					
	410	SVTO	8 S	0946.0	0946.0	2.0	73.0				QL=4 ST=2 TYP=3
	2840	PEKG	47 GB	1000.0	1028.0	72.0	2124.8				
	3000	IZMI	46 C	1001.3	1028.6	159.4	3232.0	326.0			
	2695	SVTO	48 C	1004.0	1028.0	112.0	2600.0				QL=4 ST=2 TYP=8
	2695	SVTO	48 C	1004.0	1024.0	836.0	2400.0				QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1004.0	1015.0	836.0	380.0				QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1004.0	1024.0	836.0	2400.0				QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1004.0	1024.0	836.0	2400.0				QL=4 ST=1 TYP=8
	2695	SVTO	4 S/F	1004.0	1015.0	836.0					QL=4 ST=1 TYP=3
	2695	SVTO	48 C	1004.0	1024.0	836.0	2400.0				QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1004.0	1015.0	836.0	380.0				QL=4 ST=1 TYP=8
	2695	SVTO	48 C	1004.0	1015.0	836.0	380.0				QL=4 ST=1 TYP=8
	4995	SVTO	48 C	1005.0	1027.0	114.0	7800.0				QL=4 ST=2 TYP=8
	4995	SVTO	4 S/F	1005.0	1008.0	835.0	130.0				QL=4 ST=1 TYP=3
	1415	SVTO	48 C	1006.0	1051.0	67.0	5500.0				QL=4 ST=2 TYP=8
	1415	SVTO	48 C	1006.0	1024.0	834.0	3300.0				QL=4 ST=1 TYP=8
	1415	SVTO	4 S/F	1006.0	1007.0	834.0	62.0				QL=4 ST=1 TYP=3
	1415	SVTO	4 S/F	1006.0	1007.0	834.0	62.0				QL=4 ST=1 TYP=3
	1415	SVTO	48 C	1006.0	1051.0	834.0	5500.0				QL=4 ST=1 TYP=8
	1415	SVTO	4 S/F	1006.0	1007.0	834.0	62.0				QL=4 ST=1 TYP=3
	1415	SVTO	48 C	1006.0	1024.0	834.0	3300.0				QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1006.0	1030.0	834.0	4100.0				QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1006.0	1024.0	834.0	3300.0				QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1006.0	1030.0	834.0	4100.0				QL=4 ST=1 TYP=8
	1415	SVTO	48 C	1006.0	1030.0	834.0	4100.0				QL=4 ST=1 TYP=8
	610	SVTO	48 C	1007.0	1032.0	78.0	28000.0				QL=2 ST=2 TYP=8
	8800	SVTO	48 C	1007.0	1027.0	110.0	8900.0				QL=4 ST=2 TYP=8
	610	SVTO	4 S/F	1007.0	1010.0	833.0	250.0				QL=2 ST=1 TYP=3
	8800	SVTO	48 C	1007.0	1015.0	833.0	450.0				QL=4 ST=1 TYP=8
	8800	SVTO	48 C	1007.0	1015.0	833.0	450.0				QL=4 ST=1 TYP=8
	8800	SVTO	48 C	1007.0	1022.0	833.0	3900.0				QL=4 ST=1 TYP=8
	8800	SVTO	48 C	1007.0	1022.0	833.0	3900.0				QL=4 ST=1 TYP=8
	610	SVTO	48 C	1007.0	1022.0	833.0	2900.0				QL=2 ST=1 TYP=8
	610	SVTO	48 C	1007.0	1022.0	833.0	2900.0				QL=2 ST=1 TYP=8
	610	SVTO	48 C	1007.0	1032.0	833.0	28000.0				QL=2 ST=1 TYP=8
	610	SVTO	48 C	1007.0	1022.0	833.0	2900.0				QL=2 ST=1 TYP=8
	8800	SVTO	48 C	1007.0	1022.0	833.0	3900.0				QL=4 ST=1 TYP=8
	610	SVTO	4 S/F	1007.0	1010.0	833.0	250.0				QL=2 ST=1 TYP=3
610	SVTO	48 C	1007.0	1032.0	833.0	28000.0				QL=2 ST=1 TYP=8	
245	SVTO	48 C	1008.0	1036.0	95.0	30000.0				QL=2 ST=2 TYP=8	
610	SVTO	48 C	1008.0	1022.0	832.0	2900.0				QL=4 ST=1 TYP=8	
610	SVTO	48 C	1008.0	1032.0	832.0	28000.0				QL=4 ST=1 TYP=8	
245	SVTO	48 C	1008.0	1024.0	832.0	6000.0				QL=4 ST=1 TYP=8	
245	SVTO	48 C	1008.0	1036.0	832.0	30000.0				QL=4 ST=1 TYP=8	
33	UPIC	46 C	1008.0	1009.5	3.0						
204	IZMI	42 SER	1008.2	1009.4	2.0	151.0					
4995	SGMR	48 C	1009.0	1027.0	83.0	6600.0				QL=4 ST=2 TYP=8	
610	SGMR	48 C	1009.0	1032.0	83.0	33000.0				QL=4 ST=2 TYP=8	
2695	SGMR	48 C	1009.0	1029.0	83.0	3000.0				QL=4 ST=2 TYP=8	
410	SVTO	48 C	1009.0	1032.0	83.0	40000.0				QL=4 ST=2 TYP=8	
610	SGMR	4 S/F	1009.0	1010.0	831.0	93.0				QL=4 ST=1 TYP=3	
610	SGMR	48 C	1009.0	1022.0	831.0	3000.0				QL=4 ST=1 TYP=8	
2695	SGMR	48 C	1009.0	1024.0	831.0	2800.0				QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1009.0	1022.0	831.0	3100.0				QL=4 ST=1 TYP=8	
4995	SGMR	48 C	1009.0	1020.0	831.0	2700.0				QL=4 ST=1 TYP=8	
4995	SGMR	4 S/F	1009.0	1009.0	831.0	66.0				QL=4 ST=1 TYP=3	
4995	SGMR	48 C	1009.0	1022.0	831.0	3100.0				QL=4 ST=1 TYP=8	



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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
14	610	SGMR	48 C	1009.0	1022.0	831.0	3000.0			QL=4 ST=1 TYP=8
	2695	SGMR	48 C	1009.0	1015.0	831.0	420.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1009.0	1020.0	831.0	2100.0			QL=4 ST=1 TYP=8
	410	SVTO	4 S/F	1009.0	1010.0	831.0	230.0			QL=4 ST=1 TYP=3
	410	SVTO	48 C	1009.0	1020.0	831.0	2100.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1009.0	1032.0	831.0	40000.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1009.0	1032.0	831.0	40000.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1009.0	1020.0	831.0	2100.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1009.0	1020.0	831.0	2100.0			QL=4 ST=1 TYP=8
	410	SVTO	48 C	1009.0	1032.0	831.0	40000.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1010.0	1031.0	82.0	41000.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1010.0	1020.0	830.0	2100.0			QL=4 ST=1 TYP=8
	410	SGMR	4 S/F	1010.0	1011.0	830.0	200.0			QL=4 ST=1 TYP=3
	410	SGMR	48 C	1010.0	1017.0	830.0	1000.0			QL=4 ST=1 TYP=8
	410	SGMR	48 C	1010.0	1020.0	830.0	2100.0			QL=4 ST=1 TYP=8
	33	UPIC	32 ABS	1011.0	1022.0	11.00				
	245	SGMR	48 C	1011.0	1036.0	81.0	31000.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1011.0	1024.0	829.0	5500.0			QL=4 ST=1 TYP=8
	245	SGMR	4 S/F	1011.0	1011.0	829.0	90.0			QL=4 ST=1 TYP=3
	15400	SGMR	48 C	1012.0	1027.0	80.0	6700.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1012.0	1051.0	80.0	5500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1012.0	1027.0	80.0	8700.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	1012.0	1026.0	104.0	5500.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1012.0	1022.0	828.0	3800.0			QL=4 ST=1 TYP=8
	1415	SGMR	48 C	1012.0	1024.0	828.0	3200.0			QL=4 ST=1 TYP=8
	1415	SGMR	48 C	1012.0	1024.0	828.0	3200.0			QL=4 ST=1 TYP=8
	15400	SGMR	49 GB	1012.0	1022.0	828.0	2300.0			QL=4 ST=1 TYP=6
	1415	SGMR	49 GB	1012.0	1016.0	828.0	570.0			QL=4 ST=1 TYP=6
	15400	SVTO	4 S/F	1012.0	1013.0	828.0	180.0			QL=4 ST=1 TYP=3
	15400	SVTO	48 C	1012.0	1022.0	828.0	2100.0			QL=4 ST=1 TYP=8
	15400	SVTO	48 C	1012.0	1022.0	828.0	2100.0			QL=4 ST=1 TYP=8
	204	IZMI	46 C	1013.9	1028.2	29.9	17350.0			
	245	SVTO	49 GB	1016.0	1024.0	824.0	6000.0			QL=4 ST=1 TYP=6
	33	UPIC	49 GB	1022.0	1028.5U	23.0				
	127	TORN	49 GB	1023.0	1033.0U	22.0	260.00	220.00		
	33	UPIC	29 PBI	1045.0	1253.0U	167.0				
	8800	SGMR	4 S/F	1139.0	1139.0	13.0	61.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1140.0	1140.0	12.0	74.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1150.0	1150.0	2.0	300.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1150.0	1150.0	2.0	240.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1225.0	1225.0		160.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1225.0	1225.0		180.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1225.0	1225.3	0.6	96.0			
	410	SGMR	48 C	1240.0	1254.0	29.0	1200.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1240.0	1251.0	680.0	1100.0			QL=4 ST=1 TYP=8
	9500	CUBA	30 PBI	1243.0E		153.00	26.0			SUNRISE
	610	SGMR	48 C	1244.0	1253.0	25.0	5100.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1244.0	1253.0	676.0	5100.0			QL=4 ST=1 TYP=8
	9500	CUBA	1 S	1247.9	1248.7	3.7	27.0	13.0		
	204	IZMI	7 C	1248.0	1251.8	11.9	150.0			
	3000	IZMI	45 C	1249.4	1251.8	5.5	74.0	22.0		
	4995	SGMR	4 S/F	1251.0	1251.0	6.0	59.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1251.0	1251.0	3.0	59.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1251.0	1251.0	1.0	92.0			QL=2 ST=2 TYP=3
	610	SVTO	49 GB	1251.0	1253.0	5.0	4500.0			QL=2 ST=2 TYP=6
	1415	SVTO	4 S/F	1251.0	1253.0	3.0	250.0			QL=2 ST=2 TYP=3
	410	SVTO	49 GB	1251.0	1254.0	7.0	1200.0			QL=4 ST=2 TYP=6
	2695	SVTO	8 S	1251.0	1251.0	2.0	56.0			QL=2 ST=2 TYP=3
	245	SGMR	4 S/F	1251.0	1252.0	18.0	300.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1251.0	1252.0	10.0	260.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1251.0	1251.0	669.0	59.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1251.0	1251.0	669.0	59.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	1251.0	1252.0	669.0	300.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	1251.0	1251.0	669.0	92.0			QL=2 ST=1 TYP=3
	410	SVTO	49 GB	1251.0	1254.0	669.0	1200.0			QL=4 ST=1 TYP=6
	610	SVTO	49 GB	1251.0	1253.0	669.0	4500.0			QL=2 ST=1 TYP=6
	2695	SVTO	4 S/F	1251.0	1251.0	669.0	56.0			QL=2 ST=1 TYP=3
	1415	SVTO	4 S/F	1251.0	1253.0	669.0	250.0			QL=2 ST=1 TYP=3
	610	SVTO	49 GB	1251.0	1253.0	669.0	4500.0			QL=4 ST=1 TYP=6

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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
14	245	SVTO	4 S/F	1251.0	1252.0	669.0	260.0			QL=4 ST=1 TYP=3
	1415	SGMR	8 S	1253.0	1253.0	1.0	230.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1253.0	1253.0	667.0	230.0			QL=4 ST=1 TYP=3
	6700	CUBA	30 PBI	1257.0E		139.0D	37.0			OOR SUNRISE
	245	SVTO	4 S/F	1303.0	1313.0	11.0	140.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1303.0	1312.0	32.0	220.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1303.0	1312.0	657.0	220.0			QL=4 ST=1 TYP=8
	610	SVTO	49 GB	1305.0	1316.0	16.0	500.0			QL=4 ST=3 TYP=6
	610	SVTO	20 GRF	1305.0	1316.0	655.0	500.0			QL=4 ST=1 TYP=2
	610	SGMR	20 GRF	1309.0	1316.0	23.0	490.0			QL=4 ST=2 TYP=2
	610	SGMR	20 GRF	1309.0	1316.0	23.0	490.0			QL=4 ST=3 TYP=2
	610	SGMR	20 GRF	1309.0	1316.0	651.0	490.0			QL=4 ST=1 TYP=2
	410	SGMR	4 S/F	1310.0	1312.0	22.0	270.0			QL=4 ST=3 TYP=3
	410	SGMR	4 S/F	1310.0	1312.0	22.0	270.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1310.0	1312.0	650.0	270.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	1313.0	1313.0	19.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1313.0	1313.0	19.0	150.0			QL=4 ST=3 TYP=3
	245	SGMR	4 S/F	1313.0	1313.0	647.0	150.0			QL=4 ST=1 TYP=3
	2800	PENT	29 PBI	1338.0	1349.0	114.0	233.0			
	1415	SVTO	4 S/F	1346.0	1348.0	9.0	190.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1346.0	1349.0	10.0	210.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	1346.0	1348.0	614.0	190.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1346.0	1349.0	614.0	210.0			QL=4 ST=1 TYP=3
	6700	CUBA	46 C	1346.0	1349.8	21.0	184.0	38.0		10L
	9500	CUBA	46 C	1346.0	1349.9	18.5	89.0	25.0		
	4995	SGMR	4 S/F	1347.0	1349.0	4.0	220.0			QL=4 ST=2 TYP=3
	2695	SGMR	20 GRF	1347.0	1349.0	9.0	220.0			QL=4 ST=2 TYP=2
	1415	SGMR	4 S/F	1347.0	1348.0	9.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1347.0	1348.0	9.0	470.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	1347.0	1349.0	4.0	870.0	150.0		
	33	UPIC	48 C	1347.0	1349.0	9.0				
	15400	SVTO	4 S/F	1347.0	1349.0	10.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1347.0	1348.0	16.0	460.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1347.0	1354.0	10.0	120.0			QL=4 ST=2 TYP=8
	8800	SVTO	4 S/F	1347.0	1349.0	11.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1347.0	1349.0	13.0	240.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1347.0	1349.0	613.0	240.0			QL=4 ST=1 TYP=3
	245	SVTO	4 S/F	1347.0	1348.0	613.0	460.0			QL=4 ST=1 TYP=3
	410	SVTO	4 S/F	1347.0	1349.0	613.0	72.0			QL=4 ST=1 TYP=3
	15400	SVTO	4 S/F	1347.0	1349.0	613.0	61.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	1347.0	1349.0	613.0	120.0			QL=4 ST=1 TYP=3
	235	CUBA	6 S	1347.0	1349.2	8.3	266.0			
	280	CUBA	6 S	1347.0	1349.2	8.3	319.0			
610	SGMR	20 GRF	1348.0	1350.0	8.0	120.0			QL=4 ST=2 TYP=2	
410	SGMR	20 GRF	1348.0	1354.0	8.0	120.0			QL=4 ST=2 TYP=2	
610	SVTO	20 GRF	1348.0	1348.0	8.0	140.0			QL=4 ST=2 TYP=2	
610	SVTO	4 S/F	1348.0	1348.0	612.0	140.0			QL=4 ST=1 TYP=3	
15400	SGMR	4 S/F	1349.0	1349.0	7.0	78.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1349.0	1349.0	7.0	97.0			QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1638.0	1640.0	3.0	180.0			QL=4 ST=2 TYP=3	
33	UPIC	46 C	1638.0	1640.0	3.5					
245	SGMR	4 S/F	1639.0	1640.0	3.0	190.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1641.0	1641.0	1.0	36.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1641.0	1643.0	2.0	110.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1642.0	1643.0	2.0	120.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1913.0	1913.0	1.0	86.0			QL=4 ST=2 TYP=3	
15	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	127	TORN	43 NS	0830.0		260.0		2.0		V=1, DISTURBED
	280	CUBA	44 NS	1400.0E		470.0D		15.0		
	235	CUBA	44 NS	1400.0E		470.0D		7.0		
	245	SGMR	43 NS	1700.0	1700.0	6.0	240.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1700.0	1700.0	420.0	240.0			QL=4 ST=1 TYP=1
	610	LEAR	8 S	0045.0	0046.0	2.0	53.0			QL=4 ST=2 TYP=3
	2800	HIRA	46 C	0136.0	0159.0	49.0	100.0			SL
	610	LEAR	48 C	0147.0	0156.0	25.0	460.0			QL=4 ST=2 TYP=8
	200	HIRA	8 S	0202.0	0202.0	3.0	50.0			0
	500	HIRA	46 C	0251.0	0334.0	89.0	60.0			SL
245	LEAR	8 S	0411.0	0411.0	1.0	66.0			QL=4 ST=2 TYP=3	

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Outstanding Occurrences

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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
15	2840	PEKG	5 S	0432.0	0434.0	5.0	29.1				
	2695	LEAR	8 S	0433.0	0433.0	1.0	27.0			QL=4 ST=2 TYP=3	
	4995	LEAR	8 S	0433.0	0433.0	1.0	91.0			QL=4 ST=2 TYP=3	
	5730	IRKU	3 S	0433.0	0433.9	4.0	72.0		U		
	200	HIRA	8 S	0438.0	0440.0	10.0	110.0			WR	
	245	LEAR	8 S	0439.0	0439.0	1.0	260.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0439.0	0439.0	1.0	140.0			QL=4 ST=2 TYP=3	
	5730	IRKU	3 S	0510.0	0511.7	15.0	54.0		U		
	245	LEAR	8 S	0524.0	0526.0	2.0	110.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0524.0	0526.0	2.0	130.0			QL=4 ST=2 TYP=3	
	200	HIRA	8 S	0554.0	0554.0	7.0	120.0			0	
	33	UPIC	42 SER	0554.0	1130.0	632.0					
	1415	SVTO	8 S	0559.0	0600.0	1.0	23.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0600.0	0600.0	1.0	60.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0600.0	0601.0	1.0	36.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0648.9	0652.8	5.8	135.0				
	245	LEAR	8 S	0652.0	0652.0	1.0	110.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0652.0	0652.0	1.0	120.0				QL=4 ST=2 TYP=3
	204	IZMI	41 F	0811.4	0811.8	1.2	36.0				
	3000	IZMI	20 GRF	0817.2	0817.6	5.7	19.0	5.0			
	3000	IZMI	20 GRF	0831.6	0832.2	5.1	15.0	4.0			
	204	IZMI	41 F	1004.5	1005.1	0.8	40.0				
	204	IZMI	45 C	1032.9	1034.0	1.5	122.0				
	245	SGMR	8 S	1033.0	1033.0	2.0	130.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1033.0	1033.0	1.0	210.0				QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1117.9	1121.2	3.9	111.0				
	33	UPIC	48 C	1124.0	1130.0	12.0					
	204	IZMI	42 SER	1151.8	1152.1	1.0	30.0				
	204	IZMI	7 C	1156.6	1156.7	0.2	96.0				
	410	SGMR	8 S	1240.0	1241.0	2.0	73.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1241.0	1241.0	1.0	97.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1241.0	1241.0		49.0		U		QL=4 ST=2 TYP=3
	410	SVTO	8 S	1241.0	1241.0		110.0		U		QL=4 ST=2 TYP=3
	245	SGMR	8 S	1258.0	1258.0	1.0	170.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1258.0	1258.0	1.0	180.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1423.0	1423.0		83.0		U		QL=4 ST=2 TYP=3
	245	SGMR	8 S	1428.0	1428.0		86.0		U		QL=4 ST=2 TYP=3
	245	SVTO	8 S	1428.0	1428.0		82.0		U		QL=4 ST=2 TYP=3
	33	UPIC	46 C	1428.0	1433.0	11.0					
	2800	PENT	40 F	1429.0	1433.0	8.0	10.0				
	245	SVTO	8 S	1433.0	1434.0	1.0	70.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1639.0	1640.0	1.0	220.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1643.0	1643.0		110.0		U		QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1647.3	1649.6	3.2	15.0	7.0			00L
	245	PALE	8 S	1657.0	1657.0	1.0	61.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	1658.0	1659.0	1.0	22.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	1700.0	1700.0	2.0	230.0				QL=4 ST=2 TYP=3
6700	CUBA	22 GRF	1723.0	1725.0	12.0	19.0	9.0			24R	
9500	CUBA	1 S	1723.2	1723.9	0.8	8.0	4.0				
245	PALE	8 S	1913.0	1913.0	1.0	130.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2018.0	2018.0	1.0	53.0				QL=4 ST=2 TYP=3	
200	HIRA	8 S	2215.0	2217.0	7.0	120.0				0	
200	HIRA	8 S	2257.0	2301.0	5.0	70.0				WL	
410	PALE	49 GB	2258.0	2259.0	3.0	970.0				QL=4 ST=2 TYP=6	
2840	PEKG	5 S	2258.0	2300.0	6.0	173.4					
245	SGMR	4 S/F	2259.0	2300.0	5.0	140.0				QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	2259.0	2300.0	5.0	49.0				QL=4 ST=2 TYP=3	
2800	HIRA	3 S	2300.0	2301.0	4.0	160.0				0	
2695	PALE	8 S	2300.0	2300.0	1.0	150.0				QL=4 ST=2 TYP=3	
4995	PALE	8 S	2300.0	2300.0	1.0	240.0				QL=4 ST=2 TYP=3	
8800	PALE	8 S	2300.0	2300.0	1.0	140.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2300.0	2300.0	1.0	180.0				QL=4 ST=2 TYP=3	
1415	PALE	8 S	2300.0	2300.0	1.0	120.0				QL=4 ST=2 TYP=3	
500	HIRA	3 S	2300.0	2300.0	18.0	60.0				0	
2840	PEKG	1 S	2316.0	2318.0	7.0	8.9					
16	204	IZMI	44 NS	0600.0E		360.0D		30.0			
	245	LEAR	43 NS	0647.0	0732.0	119.0	110.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0647.0	0700.0	1033.0	55.0			QL=4 ST=1 TYP=1	

S O L A R R A D I O E M I S S I O N  
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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
16	245	SVTO	43 NS	0715.0	0832.0	78.0	96.0			QL=2 ST=2 TYP=1	
	245	SVTO	43 NS	0715.0	0715.0	1005.0	68.0			QL=2 ST=1 TYP=1	
	127	TORN	43 NS	0810.0		350.0		1.0		V=1, DISTURBED	
	245	SGMR	43 NS	1033.0	2012.0	763.0	350.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1033.0	1104.0	807.0	100.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1033.0	1034.0	807.0	64.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1033.0	1245.0	807.0	220.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	1058.0	1100.0	782.0	76.0			QL=2 ST=1 TYP=1	
	280	CUBA	44 NS	1400.0E		120.0D			31.0		
	235	CUBA	44 NS	1400.0E		120.0D			18.0		
	245	PALE	43 NS	1705.0	1705.0	415.0	110.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1705.0	1944.0	415.0	210.0				QL=4 ST=1 TYP=1
	245	PALE	43 NS	1705.0	1944.0	577.0	210.0				QL=4 ST=2 TYP=1
	245	PALE	8 S	0010.0	0011.0	2.0	76.0				QL=4 ST=2 TYP=3
	2800	PENT	8 S	0118.0	0123.0	11.0	225.0				
	2840	PEKG	3 S	0120.0	0123.0	10.0	230.7				
	2800	HIRA	3 S	0122.0	0123.0	6.0	200.0				0
	500	HIRA	3 S	0122.0	0123.0	10.0	100.0				0
	5730	IRKU	4 S/F	0122.0	0123.7	8.0	78.0		U		
	200	HIRA	47 GB	0123.0	0124.0	3.0	680.0				MR
	8800	PALE	8 S	0123.0	0123.0	2.0	79.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	0123.0	0123.0	1.0	120.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	0123.0	0123.0	2.0	70.0				QL=4 ST=2 TYP=3
	2695	PALE	8 S	0123.0	0123.0	2.0	290.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	0123.0	0124.0	2.0	53.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0123.0	0123.0	2.0	370.0				QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0123.0	0123.0	1357.0	79.0				QL=4 ST=1 TYP=3
	1415	PALE	4 S/F	0123.0	0123.0	1357.0	70.0				QL=4 ST=1 TYP=3
	245	PALE	4 S/F	0123.0	0123.0	1357.0	370.0				QL=4 ST=1 TYP=3
	410	PALE	4 S/F	0123.0	0123.0	1357.0	120.0				QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	0123.0	0123.0	1357.0	290.0				QL=4 ST=1 TYP=3
	610	PALE	4 S/F	0147.0	0156.0	10.0	450.0				QL=4 ST=2 TYP=3
	610	PALE	48 C	0147.0	0156.0	1333.0	480.0				QL=4 ST=1 TYP=8
	2840	PEKG	45 C	0200.0	0204.0	10.0	25.1				
	8800	LEAR	49 GB	0201.0	0202.0	3.0	640.0				QL=2 ST=2 TYP=6
	5730	IRKU	46 C	0201.9	0202.5U	43.1U	308.0		U		
	15400	LEAR	8 S	0202.0	0202.0	2.0	430.0				QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0202.0	0202.0	3.0	390.0				QL=4 ST=2 TYP=3
	8800	PALE	49 GB	0202.0	0202.0	2.0	730.0				QL=4 ST=2 TYP=6
	15400	PALE	8 S	0202.0	0202.0	1.0	400.0				QL=4 ST=2 TYP=3
	4995	PALE	8 S	0202.0	0202.0	2.0	370.0				QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0203.0	0203.0	1.0	23.0				QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0221.0	0224.0	8.0	5.1				
	8800	LEAR	8 S	0223.0	0224.0	1.0	52.0				QL=2 ST=2 TYP=3
	4995	LEAR	8 S	0223.0	0224.0	1.0	57.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0341.0	0341.0		57.0		U		QL=4 ST=2 TYP=3
	245	LEAR	8 S	0343.0	0343.0		74.0		U		QL=4 ST=2 TYP=3
	4995	PALE	8 S	0433.0	0433.0	1.0	87.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0438.0	0439.0	2.0	260.0				QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0511.0	0514.0	21.0	8.0		U		
500	HIRA	46 C	0607.0	0609.0	7.0	110.0				WR	
245	LEAR	49 GB	0607.0	0609.0	6.0	500.0				QL=4 ST=2 TYP=6	
245	SVTO	49 GB	0607.0	0609.0	6.0	530.0				QL=4 ST=2 TYP=6	
200	HIRA	46 C	0607.0	0612.0	11.0	160.0				MR	
2840	PEKG	45 C	0607.0	0608.0	10.0	179.8					
245	LEAR	49 GB	0607.0	0609.0	1073.0	500.0				QL=4 ST=1 TYP=6	
204	IZMI	46 C	0607.4	0609.2	6.5	265.0					
2800	HIRA	45 C	0608.0	0609.0	6.0	130.0				MR	
410	LEAR	4 S/F	0608.0	0609.0	5.0	360.0				QL=4 ST=2 TYP=3	
610	LEAR	4 S/F	0608.0	0609.0	5.0	150.0				QL=4 ST=2 TYP=3	
1415	LEAR	4 S/F	0608.0	0609.0	5.0	110.0				QL=4 ST=2 TYP=3	
1415	SVTO	4 S/F	0608.0	0609.0	5.0	99.0				QL=4 ST=2 TYP=3	
410	SVTO	4 S/F	0608.0	0609.0	5.0	450.0				QL=4 ST=2 TYP=3	
1415	LEAR	4 S/F	0608.0	0609.0	1072.0	110.0				QL=4 ST=1 TYP=3	
410	LEAR	4 S/F	0608.0	0609.0	1072.0	360.0				QL=4 ST=1 TYP=3	
610	LEAR	4 S/F	0608.0	0609.0	1072.0	150.0				QL=4 ST=1 TYP=3	
3000	IZMI	45 C	0608.2	0608.5	5.7	161.0		43.0			
5730	IRKU	46 C	0609.0	0612.0	9.0	119.0		U			
610	SVTO	8 S	0609.0	0609.0	1.0	120.0				QL=4 ST=2 TYP=3	

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

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Jul 00

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
16	2695	SVTO	4 S/F	0609.0	0612.0	4.0	72.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0610.0	0611.0	3.0	96.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0610.0	0611.0	3.0	67.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0610.0	0611.0	1070.0	67.0			QL=4 ST=1 TYP=3
	4995	LEAR	4 S/F	0610.0	0611.0	1070.0	96.0			QL=4 ST=1 TYP=3
	15400	LEAR	8 S	0611.0	0612.0	2.0	33.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0611.0	0612.0	2.0	57.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0611.0	0611.0	2.0	94.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0611.0	0612.0	2.0	67.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0611.0	0612.0	2.0	40.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0611.0	0612.0	1069.0	57.0			QL=4 ST=1 TYP=3
	15400	LEAR	4 S/F	0611.0	0612.0	1069.0	33.0			QL=4 ST=1 TYP=3
	245	LEAR	8 S	0621.0	0621.0		53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0621.0	0622.0	1.0	170.0			QL=2 ST=3 TYP=3
	245	SVTO	8 S	0621.0	0622.0	1.0	170.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0623.0	0632.0	9.0	240.0			WL
	245	LEAR	8 S	0630.0	0631.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0630.0	0631.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0630.0	0631.0	2.0	170.0			QL=4 ST=3 TYP=3
	410	LEAR	8 S	0631.0	0631.0		35.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0631.0	0631.0	1.0	80.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	0631.0	0631.0	1.0	80.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0631.3	0631.4	0.9	492.0			
	245	LEAR	4 S/F	0636.0	0640.0	7.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0636.0	0640.0	7.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0652.0	0653.0	1.0	57.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0722.2	0722.5	1.7	15.0	7.0		
	245	LEAR	4 S/F	0839.0	0841.0	3.0	180.0			QL=2 ST=2 TYP=3
	204	IZMI	46 C	0840.9	0841.4	2.6	316.0			
	245	SVTO	8 S	0841.0	0841.0		140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0929.0	0929.0	2.0	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0929.0	0929.0	1.0	66.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0939.0	0941.0	6.0	8.9			
	3000	IZMI	7 C	0939.8	0940.4	9.6	18.0	3.0		
	204	IZMI	45 C	0951.8	0952.2	1.5	145.0			
	245	SGMR	8 S	1027.0	1027.0	1.0	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1027.0	1027.0	1.0	96.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1035.0	1035.0		160.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1036.0	1036.0		99.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1140.0	1140.0	1.0	110.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	1140.7	1140.9	0.5	67.0			
	8800	SGMR	8 S	1154.0	1155.0	1.0	54.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1154.0	1154.0	1.0	320.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1154.0	1154.0	1.0	40.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1154.0	1154.0	1.0	350.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1154.0	1155.0	1.0	51.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1154.0	1154.0	1.0	46.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1154.0	1155.0	1.0	28.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	1154.5	1155.4	5.5	9.0	3.0		
	204	IZMI	45 C	1154.8	1155.1	0.8	162.0			
410	SGMR	4 S/F	1220.0	1224.0	4.0	74.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1221.0	1222.0	2.0	120.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1245.0	1245.0		230.0			QL=4 ST=2 TYP=3	
33	UPIC	42 SER	1340.0	1611.5	206.0					
410	SVTO	8 S	1509.0	1510.0	2.0	53.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1510.0	1510.0	2.0	74.0			QL=2 ST=2 TYP=3	
8800	SGMR	8 S	1510.0	1510.0	2.0	17.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1510.0	1510.0	2.0	57.0			QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1510.0	1510.0	2.0	32.0			QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1510.0	1510.0	1.0	29.0			QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1510.0	1510.0	3.0	85.0			QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1510.0	1510.0		36.0			QL=4 ST=2 TYP=3	
6700	CUBA	2 S/F	1510.0	1510.8	1.3	19.0	9.0		9L	
410	SGMR	8 S	1609.0	1609.0	1.0	66.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1609.0	1610.0	1.0	850.0			QL=4 ST=2 TYP=6	
245	SVTO	49 GB	1609.0	1610.0	1.0	680.0			QL=4 ST=2 TYP=6	
410	SVTO	8 S	1609.0	1609.0	1.0	88.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1637.0	1638.0	1.0	56.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1648.0	1648.0	1.0	64.0			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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
16	410	PALE	8 S	1730.0	1731.0	1.0	59.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1730.0	1730.0	1.0	60.0			QL=4 ST=2 TYP=3	
	410	PALE	8 S	1827.0	1827.0	1.0	130.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1827.0	1827.0	U	140.0			QL=4 ST=2 TYP=3	
	2800	PENT	1 S	1843.0	1846.0	6.0	5.0				
	410	SGMR	8 S	1846.0	1846.0	1.0	220.0			QL=4 ST=2 TYP=3	
	610	SGMR	49 GB	1846.0	1846.0	1.0	690.0			QL=4 ST=2 TYP=6	
	610	PALE	49 GB	1847.0	1847.0	U	790.0			QL=4 ST=2 TYP=6	
	410	PALE	8 S	1847.0	1847.0	U	210.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1904.0	1904.0	1.0	140.0			QL=4 ST=2 TYP=3	
	245	PALE	49 GB	1937.0	1937.0	1.0	980.0			QL=4 ST=2 TYP=6	
	8800	PALE	8 S	1937.0	1938.0	1.0	37.0			QL=4 ST=2 TYP=3	
	410	PALE	49 GB	1937.0	1937.0	1.0	530.0			QL=4 ST=2 TYP=6	
	4995	SGMR	4 S/F	1937.0	1937.0	3.0	49.0			QL=4 ST=2 TYP=3	
	410	SGMR	4 S/F	1937.0	1937.0	3.0	480.0			QL=4 ST=2 TYP=3	
	8800	SGMR	8 S	1937.0	1937.0	1.0	74.0			QL=4 ST=2 TYP=3	
	245	SGMR	49 GB	1937.0	1937.0	3.0	850.0			QL=4 ST=2 TYP=6	
	410	PALE	49 GB	1937.0	1937.0	263.0	530.0			QL=4 ST=1 TYP=6	
	245	PALE	49 GB	1937.0	1937.0	263.0	980.0			QL=4 ST=1 TYP=6	
	2800	PENT	3 S	2043.0	2047.0	9.0	7.0				
	410	PALE	8 S	2046.0	2047.0	1.0	81.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2046.0	2047.0	1.0	74.0			QL=4 ST=2 TYP=3	
	2800	PENT	29 PBI	2145.0	2150.0	44.0	10.0				
	2800	PENT	41 F	2333.0	2342.0	70.0	29.0				
	2840	PEKG	20 GRF	2338.0	2341.0	15.0	26.2				
	610	LEAR	8 S	2354.0	2355.0	2.0	83.0			QL=4 ST=2 TYP=3	
	17	245	LEAR	43 NS	0211.0	0241.0	31.0	410.0			QL=4 ST=2 TYP=1
		245	LEAR	43 NS	0211.0	0223.0	1309.0	180.0			QL=4 ST=1 TYP=1
		245	LEAR	43 NS	0211.0	0241.0	1309.0	410.0			QL=4 ST=1 TYP=1
		245	LEAR	43 NS	0211.0	0212.0	1309.0	95.0			QL=4 ST=1 TYP=1
245		SVTO	43 NS	0545.0	0633.0	114.0	91.0			QL=4 ST=2 TYP=1	
245		SVTO	43 NS	0545.0	0545.0	1095.0	52.0			QL=4 ST=1 TYP=1	
245		SVTO	43 NS	0545.0	0633.0	1095.0	91.0			QL=4 ST=1 TYP=1	
204		IZMI	44 NS	0600.0E		360.0D		20.0			
127		TORN	43 NS	0810.0		270.0U		6.0		V=1, DISTURBED	
245		SGMR	43 NS	1129.0	1129.0	40.0	80.0			QL=4 ST=2 TYP=1	
245		SGMR	43 NS	1129.0	1129.0	751.0	80.0			QL=4 ST=1 TYP=1	
245		SVTO	43 NS	1143.0	1401.0	183.0	110.0			QL=2 ST=2 TYP=1	
245		SVTO	43 NS	1143.0	1151.0	737.0	58.0			QL=4 ST=1 TYP=1	
235		CUBA	44 NS	1400.0E		470.0D		10.0			
280		CUBA	44 NS	1400.0E		470.0D		19.0			
245		LEAR	8 S	0020.0	0020.0	1.0	140.0			QL=4 ST=2 TYP=3	
2840		PEKG	5 S	0030.0	0033.0	7.0	11.8				
8800		LEAR	4 S/F	0031.0	0033.0	6.0	56.0			QL=4 ST=2 TYP=3	
245		LEAR	8 S	0031.0	0032.0	2.0	350.0			QL=4 ST=2 TYP=3	
4995		LEAR	4 S/F	0031.0	0033.0	4.0	44.0			QL=4 ST=2 TYP=3	
8800		LEAR	4 S/F	0031.0	0033.0	1409.0	56.0			QL=4 ST=1 TYP=3	
245		LEAR	4 S/F	0031.0	0032.0	1409.0	350.0			QL=4 ST=1 TYP=3	
4995		LEAR	4 S/F	0031.0	0033.0	1409.0	44.0			QL=4 ST=1 TYP=3	
5730		IRKU	4 S/F	0031.0	0033.5	11.0	35.0		U		
2695		LEAR	8 S	0032.0	0033.0	2.0	31.0			QL=4 ST=2 TYP=3	
410		LEAR	8 S	0032.0	0032.0	1.0	32.0			QL=4 ST=2 TYP=3	
410		PALE	8 S	0032.0	0032.0	1.0	55.0			QL=4 ST=2 TYP=3	
245		PALE	8 S	0032.0	0032.0	1.0	420.0			QL=4 ST=2 TYP=3	
2695		LEAR	4 S/F	0032.0	0033.0	1408.0	31.0			QL=4 ST=1 TYP=3	
410		LEAR	4 S/F	0032.0	0032.0	1408.0	32.0			QL=4 ST=1 TYP=3	
15400		LEAR	8 S	0033.0	0033.0	U	27.0			QL=4 ST=2 TYP=3	
610		LEAR	8 S	0033.0	0033.0	U	26.0			QL=4 ST=2 TYP=3	
610		PALE	8 S	0033.0	0035.0	2.0	39.0			QL=4 ST=2 TYP=3	
2840		PEKG	1 S	0425.0	0427.0	9.0	7.0				
8800		SVTO	8 S	0426.0	0428.0	2.0	51.0			QL=2 ST=2 TYP=3	
4995		SVTO	4 S/F	0426.0	0428.0	3.0	52.0			QL=2 ST=2 TYP=3	
5730	IRKU	4 S/F	0456.3	0458.1	9.2	29.0		U			
204	IZMI	42 SER	0620.6	0623.8	4.1	60.0					
245	LEAR	4 S/F	0621.0	0623.0	4.0	83.0			QL=4 ST=2 TYP=3		
5730	IRKU	1 S	0622.0	0630.0	13.0	14.0		U			
2840	PEKG	1 S	0627.0	0630.0	7.0	9.8					
3000	IZMI	7 C	0629.4	0629.8	1.4	21.0		9.0			

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

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Jul 00

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
17	245	LEAR	8 S	0632.0	0633.0	2.0	92.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0633.2	0633.6	1.2	302.0			
	2840	PEKG	5 S	0823.0	0827.0	8.0	30.4			
	2695	SVTO	8 S	0825.0	0826.0	1.0	26.0			QL=4 ST=2 TYP=3
	3000	IZMI	7 C	0825.0	0825.9	3.6	35.0	12.0		
	4995	SVTO	8 S	0827.0	0827.0	U	35.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0827.0	0827.0	U	61.0			QL=4 ST=2 TYP=3
	5730	IRKU	8 S	0827.0	0827.4	1.4	16.0		U	
	3000	IZMI	7 C	0834.2	0837.9	4.9	40.0	8.0		
	2840	PEKG	5 S	0835.0	0838.0	6.0	53.6			
	4995	SVTO	8 S	0836.0	0838.0	2.0	89.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0837.0	0837.0	1.0	76.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0837.0	0837.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0837.0	0837.0	1.0	33.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0837.0	0837.0	1.0	27.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0837.0	0837.0	1.0	45.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0837.0	0837.0	1.0	25.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0838.0	0839.0	3.5	114.0		U	
	410	SVTO	4 S/F	0924.0	0926.0	3.0	51.0			QL=4 ST=2 TYP=3
	5730	IRKU	3 S	0924.0	0924.5	2.0	36.0		U	
	410	SGMR	8 S	1103.0	1103.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1111.0	1112.0	1.0	45.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1111.0	1112.0	1.0	660.0			QL=4 ST=2 TYP=6
	410	SVTO	4 S/F	1111.0	1112.0	3.0	44.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	1111.9	1112.0	0.7	1112.0			
	245	SGMR	8 S	1112.0	1112.0	U	410.0			QL=4 ST=2 TYP=3
	204	IZMI	25 R	1125.0U		35.0D		60.0		
	245	SVTO	48 C	1128.0	1133.0	5.0	53.0			QL=4 ST=2 TYP=8
	9500	CUBA	21 GRF	1249.0E	1412.0	221.0D	32.0			SUNRISE
	6700	CUBA	21 GRF	1303.0E	1406.0	192.0D	29.0			OOL SUNRISE
	6700	CUBA	1 S	1310.6	1311.4	1.6	9.0	4.0		23L
	6700	CUBA	2 S/F	1315.0	1317.6	6.7	33.0	16.0		40L
	9500	CUBA	2 S/F	1315.2	1317.7	4.8	13.0	6.0		
	610	SGMR	8 S	1336.0	1336.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1336.0	1336.0	1.0	3500.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1336.0	1336.0	1.0	55.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1336.0	1336.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1336.0	1336.0	1.0	2800.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1336.0	1336.0	1.0	59.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1338.0	1342.0	12.0	10.0			
	1415	SGMR	8 S	1342.0	1343.0	2.0	74.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1342.0	1342.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1342.0	1342.0	U	1500.0			QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1342.0	1342.0	1.0	660.0			QL=4 ST=2 TYP=6
	2695	SGMR	8 S	1342.0	1342.0	1.0	14.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1342.0	1342.0	1.0	1500.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	1342.0	1343.0	1.0	82.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1342.0	1342.0	1.0	180.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1342.0	1342.0	2.0	1200.0			QL=4 ST=2 TYP=6
	610	SVTO	4 S/F	1342.0	1342.0	618.0	180.0			QL=4 ST=1 TYP=3
245	SVTO	49 GB	1342.0	1342.0	618.0	1500.0			QL=4 ST=1 TYP=6	
1415	SVTO	4 S/F	1342.0	1343.0	618.0	82.0			QL=4 ST=1 TYP=3	
410	SVTO	49 GB	1342.0	1342.0	618.0	1200.0			QL=4 ST=1 TYP=6	
33	UPIC	3 S	1342.5	1343.0	1.0					
245	SGMR	8 S	1400.0	1401.0	1.0	81.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1441.0	1441.0	1.0	130.0			QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	1516.0	1517.0	3.0	55.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1516.0	1517.0	1.0	59.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1541.0	1541.0	U	60.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1541.0	1541.0	U	56.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1622.0	1622.0	1.0	98.0			QL=4 ST=2 TYP=3	
1415	PALE	4 S/F	1654.0	1656.0	5.0	62.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	1654.0	1654.0	U	210.0			QL=4 ST=2 TYP=3	
410	SVTO	49 GB	1654.0	1654.0	U	920.0			QL=4 ST=2 TYP=6	
6700	CUBA	1 S	1806.4	1807.2	1.8	12.0	6.0		13R	
245	SGMR	8 S	1810.0	1811.0	1.0	120.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1811.0	1811.0	U	120.0			QL=4 ST=2 TYP=3	
6700	CUBA	23 GRF	1811.0	1813.0	48.0	14.0	7.0		11R	
2800	PENT	20 GRF	1813.0	1848.0	46.0	12.0				

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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
17	245	PALE	8 S	1825.0	1825.0	1.0	260.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1825.0	1825.0	U	210.0			QL=4 ST=2 TYP=3	
	245	SGMR	4 S/F	1825.0	1825.0	335.0	210.0			QL=4 ST=1 TYP=3	
	245	PALE	8 S	1917.0	1917.0	U	95.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1917.0	1917.0	U	92.0			QL=4 ST=2 TYP=3	
	6700	CUBA	47 GB	2008.5	2025.0	29.3	1875.0				8L
	200	HIRA	47 GB	2014.0	2026.0	16.0	3820.0				ML
	9500	CUBA	47 GB	2014.7	2025.2	24.4	1624.0				
	4995	SGMR	4 S/F	2015.0	2016.0	5.0	85.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2016.0	2016.0	4.0	46.0				QL=4 ST=2 TYP=3
	245	SGMR	48 C	2016.0	2019.0	4.0	200.0				QL=4 ST=2 TYP=8
	8800	PALE	49 GB	2023.0	2025.0	4.0	1700.0				QL=4 ST=2 TYP=6
	4995	PALE	49 GB	2023.0	2025.0	4.0	900.0				QL=4 ST=2 TYP=6
	2695	PALE	4 S/F	2023.0	2024.0	3.0	240.0				QL=4 ST=2 TYP=3
	4995	SGMR	49 GB	2023.0	2024.0	7.0	910.0				QL=4 ST=2 TYP=6
	4995	PALE	49 GB	2023.0	2025.0	217.0	900.0				QL=4 ST=1 TYP=6
	2695	PALE	4 S/F	2023.0	2024.0	217.0	240.0				QL=4 ST=1 TYP=3
	8800	PALE	49 GB	2023.0	2025.0	217.0	1700.0				QL=4 ST=1 TYP=6
	4995	SGMR	49 GB	2023.0	2024.0	217.0	910.0				QL=4 ST=1 TYP=6
	2800	HIRA	8 S	2024.0	2025.0	2.0	90.0				0
	410	PALE	8 S	2024.0	2025.0	1.0	67.0				QL=4 ST=2 TYP=3
	15400	PALE	49 GB	2024.0	2024.0	3.0	2200.0				QL=4 ST=2 TYP=6
	245	PALE	49 GB	2024.0	2026.0	4.0	7100.0				QL=4 ST=2 TYP=6
	1415	PALE	8 S	2024.0	2025.0	1.0	77.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2024.0	2024.0	3.0	280.0				QL=4 ST=2 TYP=3
	8800	SGMR	49 GB	2024.0	2024.0	6.0	1800.0				QL=4 ST=2 TYP=6
	15400	SGMR	49 GB	2024.0	2024.0	6.0	2100.0				QL=4 ST=2 TYP=6
	245	SGMR	49 GB	2024.0	2026.0	6.0	6100.0				QL=4 ST=2 TYP=6
	610	SGMR	8 S	2024.0	2025.0	2.0	60.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	2024.0	2025.0	2.0	64.0				QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2024.0	2025.0	3.0	63.0				QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	2024.0	2025.0	216.0	77.0				QL=4 ST=1 TYP=3
	410	PALE	4 S/F	2024.0	2025.0	216.0	67.0				QL=4 ST=1 TYP=3
	15400	PALE	49 GB	2024.0	2024.0	216.0	2200.0				QL=4 ST=1 TYP=6
410	SGMR	4 S/F	2024.0	2025.0	216.0	64.0				QL=4 ST=1 TYP=3	
8800	SGMR	49 GB	2024.0	2024.0	216.0	1800.0				QL=4 ST=1 TYP=6	
245	SGMR	49 GB	2024.0	2026.0	216.0	6100.0				QL=4 ST=1 TYP=6	
1415	SGMR	4 S/F	2024.0	2025.0	216.0	63.0				QL=4 ST=1 TYP=3	
15400	SGMR	49 GB	2024.0	2024.0	216.0	2100.0				QL=4 ST=1 TYP=6	
610	SGMR	4 S/F	2024.0	2025.0	216.0	60.0				QL=4 ST=1 TYP=3	
2695	SGMR	4 S/F	2024.0	2024.0	216.0	280.0				QL=4 ST=1 TYP=3	
235	CUBA	48 C	2024.3	2026.5	32.9	429.0					
610	PALE	8 S	2025.0	2025.0	U	88.0				QL=4 ST=2 TYP=3	
18	245	SVTO	43 NS	0530.0	0701.0	129.0	320.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	0530.0	0701.0	1110.0	320.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0530.0	0542.0	1110.0	68.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0552.0	0616.0	32.0	100.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0552.0	0554.0	1088.0	95.0			QL=4 ST=1 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		35.0			
	245	LEAR	43 NS	0736.0	0740.0	984.0	150.0				QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1022.0	1432.0	431.0	220.0				QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1022.0	1034.0	818.0	64.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1111.0	1432.0	734.0	300.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1111.0	1432.0	769.0	300.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1111.0	1116.0	769.0	100.0				QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1111.0	1251.0	769.0	170.0				QL=4 ST=1 TYP=1
	127	TORN	44 NS	1250.0E		170.0D		13.0			V=2
	280	CUBA	44 NS	1300.0E		458.0D		32.0			
	235	CUBA	44 NS	1300.0E		458.0D		25.0			
	245	PALE	43 NS	1638.0	0020.0	735.0	280.0				QL=4 ST=2 TYP=1
	245	PALE	43 NS	1638.0	1646.0U	442.0	100.0				QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1721.0	1809.0	182.0	72.0				QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1721.0	1720.0	399.0	52.0				QL=4 ST=1 TYP=1
	410	PALE	43 NS	1726.0	1809.0	151.0	68.0				QL=4 ST=2 TYP=1
	410	PALE	43 NS	1726.0	1726.0	394.0	50.0				QL=4 ST=1 TYP=1
	2800	PENT	1 S	0014.0	0019.0	9.0	4.0				
2840	PEKG	1 S	0138.0	0140.0	5.0	8.9					
245	LEAR	8 S	0212.0	0213.0	1.0	260.0				QL=4 ST=2 TYP=3	



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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean (W/m 2 Hz)			
18	245	PALE	8 S	0212.0	0213.0	2.0	350.0			QL=4 ST=2 TYP=3	
	245	LEAR	4 S/F	0212.0	0213.0	1308.0	260.0			QL=4 ST=1 TYP=3	
	5730	IRKU	3 S	0339.0	0339.6	6.0	40.0		U		
	2840	PEKG	5 S	0410.0	0412.5	7.0	79.6				
	5730	IRKU	4 S/F	0411.0	0411.5	5.8	50.0		U		
	500	HIRA	8 S	0412.0	0413.0	1.0	50.0				ML
	200	HIRA	47 GB	0412.0	0412.0	1.0	1960.0				0
	2800	HIRA	8 S	0412.0	0413.0	3.0	70.0				0
	245	PALE	49 GB	0412.0	0412.0	1.0	7500.0				QL=4 ST=2 TYP=6
	4995	PALE	8 S	0412.0	0412.0	1.0	120.0				QL=4 ST=2 TYP=3
	410	PALE	49 GB	0412.0	0412.0	1.0	1000.0				QL=4 ST=2 TYP=6
	8800	PALE	8 S	0412.0	0412.0		71.0		U		QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0412.0	0412.0	1.0	73.0				QL=2 ST=2 TYP=3
	8800	SVTO	8 S	0412.0	0412.0		42.0		U		QL=2 ST=2 TYP=3
	4995	SVTO	8 S	0412.0	0412.0	1.0	110.0				QL=2 ST=2 TYP=3
	4995	PALE	4 S/F	0412.0	0412.0	1188.0	120.0				QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	0412.0	0412.0	1188.0	71.0				QL=4 ST=1 TYP=3
	245	PALE	49 GB	0412.0	0412.0	1188.0	7500.0				QL=4 ST=1 TYP=6
	410	PALE	49 GB	0412.0	0412.0	1188.0	1000.0				QL=4 ST=1 TYP=6
	4995	LEAR	4 S/F	0412.0E	0412.0E	3.0E	120.0				QL=2 ST=2 TYP=3
	2695	LEAR	4 S/F	0412.0E	0412.0E	3.0E	79.0				QL=2 ST=2 TYP=3
	410	LEAR	49 GB	0412.0E	0412.0E	3.0E	740.0				QL=2 ST=2 TYP=6
	245	LEAR	49 GB	0412.0E	0412.0E	1.0E	6900.0				QL=2 ST=2 TYP=6
	245	LEAR	8 S	0445.0	0445.0	1.0	82.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0445.0	0445.0	1.0	81.0				QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0457.0	0502.0	15.0	60.2				
	2800	HIRA	4 S/F	0459.0	0503.0	19.0	50.0				0
	2695	SVTO	4 S/F	0500.0	0502.0	9.0	64.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0500.0	0502.0	12.0	130.0				QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0500.0	0502.7	30.0	60.0			U	
	2695	LEAR	4 S/F	0501.0	0502.0	8.0	57.0				QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0501.0	0502.0	15.0	110.0				QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0502.0	0502.0		23.0			U	QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0502.0	0502.0	2.0	54.0				QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0502.0	0502.0		22.0			U	QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0502.0	0502.0	1.0	29.0				QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0502.0	0502.0	16.0	53.0				QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0503.0	0503.0	1.0	22.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0505.0	0505.0	1.0	31.0				QL=4 ST=2 TYP=3
	610	LEAR	8 S	0506.0	0507.0	1.0	54.0				QL=4 ST=2 TYP=3
	610	SVTO	8 S	0506.0	0507.0	1.0	55.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0509.0	0509.0		73.0			U	QL=4 ST=2 TYP=3
	245	SVTO	48 C	0509.0	0509.0	4.0	78.0				QL=4 ST=2 TYP=8
	245	LEAR	8 S	0541.0	0542.0	2.0	84.0				QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0704.6	0716.3	42.2	23.0		11.0		
	2840	PEKG	5 S	0719.0	0722.0	8.0	74.7				
	500	HIRA	47 GB	0722.0	0722.0	1.0	650.0				WL
	1415	LEAR	8 S	0722.0	0723.0	1.0	30.0				QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0722.0	0722.0	9.0	4400.0				QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0722.0	0722.0	1.0	54.0				QL=4 ST=2 TYP=3
410	LEAR	49 GB	0722.0	0722.0	1.0	1400.0				QL=4 ST=2 TYP=6	
610	LEAR	8 S	0722.0	0722.0	1.0	140.0				QL=4 ST=2 TYP=3	
610	SVTO	8 S	0722.0	0722.0	1.0	140.0				QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0722.0	0722.0	9.0	3800.0				QL=2 ST=2 TYP=6	
1415	SVTO	8 S	0722.0	0723.0	1.0	31.0				QL=4 ST=2 TYP=3	
410	SVTO	49 GB	0722.0	0722.0	1.0	1700.0				QL=4 ST=2 TYP=6	
2695	SVTO	8 S	0722.0	0722.0	1.0	47.0				QL=4 ST=2 TYP=3	
33	UPIC	45 C	0722.0	0723.0	2.0						
200	HIRA	47 GB	0722.0	0723.0	11.0	900.0				ML	
410	SVTO	49 GB	0722.0	0722.0	998.0	1700.0				QL=4 ST=1 TYP=6	
245	SVTO	49 GB	0722.0	0722.0	998.0	3800.0				QL=2 ST=1 TYP=6	
2695	SVTO	4 S/F	0722.0	0722.0	998.0	47.0				QL=4 ST=1 TYP=3	
3000	IZMI	45 C	0722.4	0722.7	1.2	90.0		25.0			
204	IZMI	45 C	0722.5	0723.2	20.4	2510.0					
2800	HIRA	8 S	0723.0	0723.0	1.0	50.0				WR	
245	LEAR	4 S/F	0735.0	0740.0	8.0	150.0				QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	0739.0	0740.0	3.0	180.0				QL=2 ST=2 TYP=3	
204	IZMI	25 R	0821.0E		219.0E			90.0			
245	SVTO	8 S	0910.0	0910.0	1.0	63.0				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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
18	245	LEAR	8 S	0920.0	0920.0	2.0	93.0			QL=4 ST=2 TYP=3	
	245	SVTO	4 S/F	0920.0	0920.0	5.0	110.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0942.0	0943.0	2.0	96.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1003.0	1003.0	2.0	61.0			QL=4 ST=4 TYP=3	
	245	SVTO	8 S	1003.0	1003.0	2.0	61.0			QL=4 ST=2 TYP=3	
	610	SGMR	8 S	1047.0	1049.0	2.0	89.0			QL=4 ST=2 TYP=3	
	245	SGMR	4 S/F	1047.0	1051.0	4.0	86.0			QL=4 ST=2 TYP=3	
	410	SGMR	49 GB	1047.0	1047.0		U	640.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1047.0	1047.0		U	240.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1047.0	1049.0	2.0	96.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1050.0	1051.0	1.0	75.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1050.0	1051.0	1.0	92.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1050.0	1051.0	1.0	48.0				QL=4 ST=2 TYP=3
	610	SGMR	8 S	1051.0	1051.0		U	69.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1051.0	1051.0		U	100.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1128.0	1128.0		U	58.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1247.5	1248.5	3.0					
	410	SVTO	8 S	1318.0	1318.0		U	91.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1349.0	1407.0	107.0	50.0				
	33	UPIC	32 ABS	1359.0	1421.0	41.0					
	9500	CUBA	23 GRF	1400.0	1414.0	77.0	43.0	21.0			
	2695	SGMR	4 S/F	1401.0	1407.0	7.0	48.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1402.0	1407.0	6.0	53.0				QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1405.0	1407.0	4.0	49.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1405.0	1407.0	22.0	59.0				QL=4 ST=2 TYP=3
	8800	SVTO	20 GRF	1405.0	1416.0	32.0	53.0				QL=4 ST=2 TYP=2
	6700	CUBA	23 GRF	1405.0U	1407.0	72.0U	64.0				6R
	15400	SVTO	20 GRF	1412.0	1426.0	22.0	39.0				QL=4 ST=2 TYP=2
	245	SGMR	8 S	1634.0	1634.0	1.0	160.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	1655.0	1655.0	1.0	63.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1655.0	1655.0	1.0	110.0				QL=4 ST=2 TYP=3
	9500	CUBA	20 GRF	1721.0	1739.0	43.0	13.0	6.0			
9500	CUBA	23 GRF	1852.0	1945.0	85.0	55.0	27.0				
6700	CUBA	23 GRF	1853.0	1943.0	83.0D	47.0				4R 2016 OFF	
410	LEAR	8 S	2322.0	2322.0		U	150.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2322.0	2322.0		U	210.0			QL=4 ST=2 TYP=3	
19	245	LEAR	43 NS	0412.0	0654.0	327.0	250.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0412.0	0413.0	1188.0	110.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	0456.0	0456.0	1144.0	84.0			QL=2 ST=1 TYP=1	
	245	SVTO	43 NS	0556.0	0654.0	253.0	250.0			QL=2 ST=2 TYP=1	
	204	IZMI	44 NS	0600.0E		360.0D		40.0			
	127	TORN	43 NS	0620.0		560.0D		60.0			V=3
	235	CUBA	44 NS	1300.0E		530.0D		11.0			
	280	CUBA	44 NS	1300.0E		530.0D		19.0			
	245	LEAR	8 S	0017.0	0017.0	1.0	73.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0020.0	0020.0		U	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0044.0	0044.0		U	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0149.0	0149.0		U	370.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0151.5	0153.2	3.5	42.0				U
	245	LEAR	8 S	0240.0	0240.0		U	76.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0425.0	0427.0	5.0	11.8				
	5730	IRKU	45 C	0427.1	0436.2	32.9	22.0				U
	245	SVTO	8 S	0443.0	0443.0	1.0	110.0				QL=4 ST=2 TYP=3
	500	HIRA	8 S	0446.0	0450.0	7.0	240.0				0
	610	LEAR	4 S/F	0446.0	0449.0	5.0	91.0				QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0447.0	0448.0	2.0	970.0				QL=4 ST=2 TYP=6
	1415	LEAR	4 S/F	0448.0	0450.0	3.0	21.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0448.0	0449.0	3.0	160.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0448.0	0449.0	3.0	160.0				QL=2 ST=3 TYP=3
	410	PALE	49 GB	0448.0	0449.0	2.0	830.0				QL=4 ST=2 TYP=6
	410	SVTO	4 S/F	0448.0	0449.0	3.0	430.0				QL=4 ST=2 TYP=3
	245	PALE	49 GB	0449.0	0451.0	2.0	500.0				QL=4 ST=2 TYP=6
	610	SVTO	8 S	0449.0	0450.0	1.0	46.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0449.0	0451.0	2.0	330.0				QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0453.0	0455.0	4.0	11.8				
	245	LEAR	4 S/F	0522.0	0524.0	3.0	330.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	0523.0	0524.0	1.0	340.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0526.0	0527.0	1.0	52.0				QL=4 ST=2 TYP=3

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

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Jul 00

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
19	5730	IRKU	46 C	0644.0	0659.7	98.0	188.0		U	
	2840	PEKG	45 C	0645.0	0700.0		84.0			
	2840	PEKG	45 C	0645.0	0649.0		113.4			
	4995	SVTO	4 S/F	0645.0	0649.0	7.0	190.0			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0645.0	0716.0	41.0	119.0			
	3000	IZMI	46 C	0645.9	0649.5	12.9	136.0	40.0		
	2800	HIRA	21 GRF	0647.0	0716.0		80.0			0
	2695	SVTO	4 S/F	0648.0	0649.0	5.0	91.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0648.0	0649.0	68.0	170.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0648.0	0649.0	78.0	84.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0648.0	0649.0	1032.0	170.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	0649.0	0649.0	5.0	88.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0649.0	0650.0	3.0	35.0			QL=4 ST=2 TYP=3
	500	HIRA	40 F	0649.0	0650.0	55.0	100.0			WL
	8800	LEAR	20 GRF	0649.0	0716.0	65.0	110.0			QL=4 ST=2 TYP=2
	1415	LEAR	4 S/F	0649.0	0649.0	77.0	32.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0649.0	0649.0	1031.0	88.0			QL=4 ST=1 TYP=3
	204	IZMI	42 SER	0654.5	0706.0	22.4	6744.0			
	200	HIRA	47 GB	0656.0	0706.0	44.0	930.0			WR
	15400	LEAR	20 GRF	0657.0	0742.0	67.0	100.0			QL=4 ST=2 TYP=2
	4995	SVTO	20 GRF	0657.0	0658.0	72.0	170.0			QL=4 ST=2 TYP=2
	15400	SVTO	20 GRF	0657.0	0739.0	72.0	120.0			QL=4 ST=2 TYP=2
	2695	SVTO	4 S/F	0657.0	0659.0	74.0	70.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0657.0	0658.0	74.0	75.0			QL=4 ST=2 TYP=3
	8800	SVTO	20 GRF	0657.0	0716.0	72.0	120.0			QL=4 ST=2 TYP=2
	4995	SVTO	4 S/F	0657.0	0658.0	1023.0	170.0			QL=4 ST=1 TYP=3
	8800	SVTO	20 GRF	0657.0	0716.0	1023.0	120.0			QL=4 ST=1 TYP=2
	1415	SVTO	4 S/F	0657.0	0658.0	1023.0	75.0			QL=4 ST=1 TYP=3
	15400	SVTO	48 C	0657.0	0716.0	1023.0	110.0			QL=4 ST=1 TYP=8
	2695	SVTO	4 S/F	0657.0	0659.0	1023.0	70.0			QL=4 ST=1 TYP=3
	15400	SVTO	20 GRF	0657.0	0724.0	1023.0	120.0			QL=4 ST=1 TYP=2
	8800	SVTO	48 C	0657.0	0716.0	1023.0	120.0			QL=4 ST=1 TYP=8
	245	SVTO	4 S/F	0659.0	0659.0	1021.0	330.0			QL=4 ST=1 TYP=3
	245	SVTO	49 GB	0704.0	0706.0	2.0	2800.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	0704.0	0706.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0706.0	0706.0	1014.0	130.0			QL=4 ST=1 TYP=3
	204	IZMI	42 SER	0733.3	0733.8	1.2	203.0			
	610	LEAR	8 S	0839.0	0840.0	1.0	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0840.0	0840.0		300.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0840.0	0840.0		58.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0852.0	0857.0	7.0	59.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0853.0	0857.0	6.0	90.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0900.0	0900.0		270.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0900.0	0900.0		340.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0922.0	0922.0		160.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0922.0	0923.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0922.0	0922.0		250.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0922.0	0923.0	1.0	120.0			QL=4 ST=2 TYP=3
	610	LEAR	20 GRF	0926.0	0933.0	13.0	180.0			QL=4 ST=2 TYP=2
	610	LEAR	20 GRF	0926.0	0933.0	13.0	180.0			QL=4 ST=3 TYP=2
610	SGMR	8 S	1145.0	1146.0	1.0	51.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1145.0	1146.0	1.0	300.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1145.0	1146.0	1.0	110.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1146.0	1146.0	2.0	24.0			QL=4 ST=2 TYP=3	
8800	SVTO	8 S	1455.0	1455.0		83.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	1532.0	1532.0		79.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1532.0	1532.0		87.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1557.0	1557.0	1.0	140.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1557.0	1557.0	1.0	130.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1603.0	1604.0	2.0	82.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1604.0	1604.0		130.0			QL=4 ST=2 TYP=3	
6700	CUBA	1 S	1609.2	1609.8	2.5	16.0	8.0		00L	
6700	CUBA	4 S/F	1631.5	1634.9	8.5	12.0	6.0		4R	
245	SGMR	8 S	1634.0	1635.0	1.0	370.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1634.0	1635.0	1.0	360.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1634.0	1635.0	446.0	370.0			QL=4 ST=1 TYP=3	
235	CUBA	6 S	1634.5	1635.0	0.7	85.0				
280	CUBA	6 S	1634.5	1635.0	0.7	50.0				
245	SGMR	4 S/F	1733.0	1735.0	3.0	64.0			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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
19	245	SGMR	8 S	1941.0	1942.0	1.0	51.0			QL=4 ST=2 TYP=3
	2800	PENT	21 GRF	2105.0	2125.0	54.0	9.0			
	6700	CUBA	1 S	2138.0	2139.0	3.0	12.0	6.0		9R
20	204	IZMI	44 NS	0600.0E		360.00		30.0		
	127	TORN	44 NS	0620.0E		560.00		30.0		V=2
	33	UPIC	43 NS	0852.0		298.0				
	245	SVTO	43 NS	1250.0	1317.0	68.0	570.0			QL=2 ST=2 TYP=1
	245	SVTO	43 NS	1250.0	1250.0	670.0	55.0			QL=2 ST=1 TYP=1
	245	SGMR	43 NS	1320.0	1326.0	125.0	310.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1320.0	1320.0	640.0	150.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1350.0	1250.0	610.0	55.0			QL=2 ST=1 TYP=1
	245	SGMR	43 NS	1700.0	1926.0	249.0	130.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1700.0	1729.0	420.0	65.0			QL=4 ST=1 TYP=1
	245	SGMR	43 NS	1700.0	1926.0	420.0	130.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1947.0	1956.0	68.0	190.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1947.0	0000.0	253.0	190.0			QL=4 ST=1 TYP=1
	1415	LEAR	8 S	0227.0	0227.0	1.0	99.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0228.0	0228.0	1.0	32.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0352.0	0352.5	3.0	10.0		U	
	245	LEAR	8 S	0428.0	0429.0	2.0	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0551.0	0551.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0551.0	0551.0	1.0	90.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0609.6	0609.6	1.7	145.0			
	204	IZMI	42 SER	0614.3	0614.8	1.9	103.0			
	410	SVTO	8 S	0615.0	0615.0		54.0		U	QL=4 ST=2 TYP=3
	245	SVTO	8 S	0615.0	0615.0	1.0	57.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0728.0	0729.0	5.0	160.0			ML
	204	IZMI	7 C	0728.8	0728.9	0.6	248.0			
	204	IZMI	42 SER	0813.9	0814.0	0.4	242.0			
	2840	PEKG	45 C	0923.0	0936.0	28.0	210.7			
	245	LEAR	4 S/F	0931.0	0935.0	5.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0931.0	0936.0	8.0	120.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0931.0	0935.0	8.0	120.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0931.0	0935.0	8.0	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0931.0	0934.0	8.0	310.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0931.0	0935.0	8.0	51.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0931.0	0935.0	8.0	160.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0931.0	0934.0	8.0	30.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0932.0	0934.0	85.0	410.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0933.0	0936.0	6.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0933.0	0936.0	3.0	250.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0933.0E	0934.0	3.00	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	48 C	0933.0	0936.0	69.0	76.0			QL=4 ST=2 TYP=8
	8800	SVTO	4 S/F	0933.0	0934.0	71.0	210.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	0933.0	0936.4	88.4	218.0	26.0		
	5730	IRKU	48 C	0933.0	0934.5	27.0	512.0		U	
	200	HIRA	47 GB	0934.0	0935.0	3.0	550.0			ML
	1415	SVTO	8 S	0934.0	0935.0	2.0	130.0			QL=4 ST=2 TYP=3
	204	IZMI	46 C	0934.4	0935.6	3.4	5032.0			
	410	SVTO	8 S	0936.0	0936.0		100.0		U	QL=4 ST=2 TYP=3
	204	IZMI	7 C	0942.9	0943.4	0.6	107.0			
	204	IZMI	41 F	1035.0	1035.8	1.4	81.0			
	127	TORN	45 C	1036.0	1037.00	3.8	90.00	40.0		
245	SVTO	4 S/F	1203.0	1206.0	3.0	120.0			QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1204.0	1205.0	3.0	130.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1204.0	1205.0	2.0	92.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1205.0	1205.0	2.0	240.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1205.0	1205.0	2.0	28.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1205.0	1205.0	2.0	42.0			QL=4 ST=2 TYP=3	
610	SVTO	8 S	1205.0E	1205.0	1.00	130.0			QL=2 ST=2 TYP=3	
1415	SVTO	8 S	1205.0	1205.0	1.0	23.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	1213.0	1214.0	2.0	92.0			QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	1224.0	1225.0	3.0	230.0			QL=4 ST=2 TYP=3	
245	SVTO	49 GB	1224.0	1225.0	2.0	880.0			QL=4 ST=2 TYP=6	
410	SVTO	8 S	1224.0	1225.0	2.0	370.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1225.0	1225.0	2.0	980.0			QL=4 ST=2 TYP=6	
1415	SGMR	8 S	1326.0	1326.0	1.0	220.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1326.0	1326.0		940.0		U	QL=4 ST=2 TYP=6	

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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	610	SGMR	8 S	1326.0	1326.0	2.0	170.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1326.0	1326.0	U	150.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1326.0	1326.0	U	210.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1326.0	1326.0	U	760.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1334.0	1334.0	2.0	90.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1334.0	1334.0	2.0	450.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1334.0	1334.0	U	350.0			QL=4 ST=4 TYP=3
	245	SVTO	8 S	1334.0	1334.0	U	350.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1334.0	1334.0	U	350.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1334.0	1334.0	U	99.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1334.0	1334.0	U	99.0			QL=4 ST=4 TYP=3
	410	SVTO	8 S	1334.0	1334.0	U	99.0			QL=4 ST=3 TYP=3
	2800	PENT	1 S	1355.0	1358.0	7.0	15.0			
	410	SGMR	8 S	1410.0	1410.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1410.0	1410.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1410.0	1413.0	3.0	2200.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1410.0	1410.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1413.0	1413.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1413.0	1413.0	U	2600.0			QL=4 ST=2 TYP=6
	2800	PENT	41 F	1452.0	1457.0	59.0	101.0			
	245	SGMR	49 GB	1456.0	1457.0	4.0	750.0			QL=4 ST=2 TYP=6
	410	SGMR	49 GB	1456.0	1457.0	4.0	3300.0			QL=4 ST=2 TYP=6
	1415	SVTO	49 GB	1456.0	1457.0	3.0	520.0			QL=4 ST=4 TYP=6
	410	SVTO	49 GB	1456.0	1457.0	1.0	2200.0			QL=4 ST=4 TYP=6
	4995	SVTO	8 S	1456.0	1457.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1456.0	1456.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1456.0	1456.0	1.0	1000.0			QL=4 ST=4 TYP=6
	610	SVTO	8 S	1456.0	1457.0	1.0	460.0			QL=4 ST=3 TYP=3
	410	SVTO	49 GB	1456.0	1457.0	1.0	2200.0			QL=4 ST=2 TYP=6
	610	SVTO	4 S/F	1456.0	1500.0	7.0	460.0			QL=4 ST=4 TYP=3
	1415	SVTO	49 GB	1456.0	1457.0	3.0	520.0			QL=4 ST=2 TYP=6
	4995	SVTO	8 S	1456.0	1457.0	1.0	63.0			QL=4 ST=4 TYP=3
	2695	SVTO	8 S	1456.0	1457.0	2.0	120.0			QL=4 ST=4 TYP=3
	2695	SVTO	8 S	1456.0	1457.0	2.0	120.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1456.0	1500.0	8.0	460.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1456.0	1457.0	544.0	3300.0			QL=4 ST=1 TYP=6
	245	SGMR	49 GB	1456.0	1457.0	544.0	750.0			QL=4 ST=1 TYP=6
	1415	SGMR	49 GB	1456.0	1457.0	544.0	500.0			QL=4 ST=1 TYP=6
	610	SGMR	4 S/F	1456.0	1457.0	544.0	310.0			QL=4 ST=1 TYP=3
	245	SVTO	49 GB	1456.0	1456.0	544.0	1100.0			QL=4 ST=1 TYP=6
	410	SVTO	49 GB	1456.0	1457.0	544.0	2200.0			QL=4 ST=1 TYP=6
	610	SVTO	4 S/F	1456.0	1457.0	544.0	240.0			QL=4 ST=1 TYP=3
	1415	SVTO	49 GB	1456.0	1457.0	544.0	510.0			QL=4 ST=1 TYP=6
	8800	SGMR	8 S	1457.0	1457.0	U	47.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1457.0	1457.0	3.0	87.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1457.0	1457.0	3.0	130.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1457.0	1457.0	U	28.0			QL=4 ST=4 TYP=3
	8800	SVTO	8 S	1457.0	1457.0	U	52.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1457.0	1457.0	U	28.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1457.0	1457.0	U	52.0			QL=4 ST=4 TYP=3
	4995	SGMR	4 S/F	1457.0	1457.0	543.0	87.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1457.0	1457.0	543.0	130.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	1457.0	1457.0	543.0	110.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	1457.0	1457.0	543.0	56.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	1457.0	1457.0	543.0	51.0			QL=4 ST=1 TYP=3
	410	SGMR	8 S	1500.0	1500.0	2.0	260.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	1500.0	1500.0	2.0	540.0			QL=4 ST=2 TYP=6
	610	SVTO	8 S	1500.0	1500.0	U	450.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1500.0	1500.0	1.0	180.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1505.0	1505.0	1.0	420.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1505.0	1505.0	U	110.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1505.0	1505.0	U	190.0			QL=4 ST=3 TYP=3
	410	SGMR	8 S	1505.0	1505.0	U	420.0			QL=4 ST=3 TYP=3
	245	SVTO	8 S	1505.0	1505.0	U	180.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1505.0	1505.0	U	480.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1505.0	1505.0	U	98.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1545.0	1545.0	1.0	140.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1545.0	1545.0	1.0	160.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1545.0	1545.0	1.0	160.0			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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	4995	SVTO	8 S	1545.0	1545.0	1.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1545.0	1545.0	1.0	140.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1545.0	1545.0	1.0	110.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	1643.0	1643.0	1.0	430.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1643.0	1644.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1643.0	1645.0	6.0	77.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1643.0	1644.0	6.0	100.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1643.0	1643.0	3.0	330.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1643.0	1643.0	1.0	330.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1643.0	1643.0	2.0	210.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1643.0	1644.5	2.5				
	4995	PALE	8 S	1644.0	1644.0	1.0	59.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1644.0	1644.0	1.0	35.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1644.0	1644.0	1.0	42.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1644.0	1644.0	5.0	35.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1644.0	1644.0	U	41.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1644.0	1644.0	U	45.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1644.0	1644.0	U	37.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1645.0	1645.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1704.0	1709.0	9.0	90.0			QL=4 ST=2 TYP=8
	4995	PALE	8 S	1732.0	1733.0	1.0	42.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1732.0	1733.0	1.0	400.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1732.0	1733.0	1.0	2700.0			QL=4 ST=2 TYP=6
	410	SGMR	4 S/F	1732.0	1732.0	3.0	430.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1732.0	1733.0	3.0	2500.0			QL=4 ST=2 TYP=6
	410	PALE	4 S/F	1732.0	1733.0	388.0	400.0			QL=4 ST=1 TYP=3
	245	PALE	49 GB	1732.0	1733.0	388.0	2700.0			QL=4 ST=1 TYP=6
	410	SGMR	4 S/F	1732.0	1732.0	388.0	430.0			QL=4 ST=1 TYP=3
	245	SGMR	49 GB	1732.0	1733.0	388.0	2500.0			QL=4 ST=1 TYP=6
	245	PALE	4 S/F	1733.0	1735.0	3.0	76.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1805.0	1805.0	1.0	220.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1811.0	1844.0	43.0	7.0			
	245	PALE	8 S	1828.0	1828.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1839.0	1839.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1925.0	1926.0	1.0	910.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1925.0	1926.0	1.0	670.0			QL=2 ST=2 TYP=6
	245	PALE	8 S	1932.0	1933.0	2.0	230.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1932.0	1935.0	4.0	96.0			QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1932.0	1933.0	3.0	44.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1933.0	1933.0	U	170.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1933.0	1933.0	2.0	12.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1933.0	1933.0	1.0	14.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1941.0	1942.0	1.0	63.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2007.0	2007.0	U	430.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2007.0	2007.0	1.0	380.0			QL=4 ST=2 TYP=3
	200	HIRA	47 GB	2012.0	2018.0	7.0	4460.0			ML
	610	SGMR	8 S	2012.0	2013.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2012.0	2013.0	2.0	2100.0			QL=2 ST=2 TYP=6
	410	SGMR	8 S	2012.0	2013.0	2.0	240.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	2013.0	2018.0	6.0	450.0			ML
	245	PALE	48 C	2013.0	2015.0	2.0	7000.0			QL=2 ST=2 TYP=8
	410	SGMR	48 C	2013.0	2018.0	6.0	1600.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	2013.0	2015.0	227.0	7000.0			QL=2 ST=1 TYP=8
	410	SGMR	49 GB	2013.0	2015.0	227.0	1200.0			QL=4 ST=1 TYP=6
	610	PALE	49 GB	2015.0	2015.0	U	1400.0			QL=4 ST=2 TYP=6
	410	PALE	49 GB	2015.0	2015.0	U	1100.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	2015.0	2015.0	U	430.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2015.0	2015.0	1.0	35.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	2015.0	2015.0	1.0	59.0			QL=4 ST=2 TYP=3
	610	SGMR	49 GB	2015.0	2015.0	1.0	1300.0			QL=4 ST=2 TYP=6
	1415	SGMR	4 S/F	2015.0	2015.0	4.0	420.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	2015.0	2015.0	4.0	6400.0			QL=2 ST=2 TYP=6
	410	PALE	49 GB	2015.0	2015.0	225.0	1100.0			QL=4 ST=1 TYP=6
	610	PALE	49 GB	2015.0	2015.0	225.0	1400.0			QL=4 ST=1 TYP=6
	245	SGMR	49 GB	2015.0	2015.0	225.0	6400.0			QL=4 ST=1 TYP=6
	9500	CUBA	20 GRF	2017.0	2046.0	63.00	10.0			2120 OFF
	410	PALE	49 GB	2018.0	2018.0	U	1000.0			QL=4 ST=2 TYP=6
	610	PALE	49 GB	2018.0	2018.0	U	1900.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	2018.0	2018.0	U	2500.0			QL=4 ST=2 TYP=6

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

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JULY            2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	245	PALE	49 GB	2018.0	2018.0	222.0	2500.0		QL=4 ST=1 TYP=6	
	610	PALE	49 GB	2018.0	2018.0	222.0	1900.0		QL=4 ST=1 TYP=6	
	410	PALE	49 GB	2018.0	2018.0	222.0	1000.0		QL=4 ST=1 TYP=6	
	4995	PALE	8 S	2023.0	2024.0	2.0	240.0		QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	2023.0	2024.0	6.0	290.0		QL=4 ST=2 TYP=3	
	2695	SGMR	4 S/F	2023.0	2024.0	6.0	420.0		QL=4 ST=2 TYP=3	
	1415	SGMR	4 S/F	2023.0	2024.0	6.0	160.0		QL=2 ST=2 TYP=3	
	8800	SGMR	4 S/F	2023.0	2024.0	6.0	260.0		QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	2023.0	2024.0	6.0	350.0		QL=4 ST=2 TYP=3	
	15400	SGMR	4 S/F	2023.0	2024.0	217.0	350.0		QL=4 ST=1 TYP=3	
	8800	SGMR	4 S/F	2023.0	2024.0	217.0	260.0		QL=4 ST=1 TYP=3	
	1415	SGMR	4 S/F	2023.0	2024.0	217.0	160.0		QL=4 ST=1 TYP=3	
	4995	SGMR	4 S/F	2023.0	2024.0	217.0	290.0		QL=4 ST=1 TYP=3	
	2695	SGMR	4 S/F	2023.0	2024.0	217.0	420.0		QL=4 ST=1 TYP=3	
	2800	HIRA	8 S	2024.0	2024.0	3.0	100.0		WR	
	2695	PALE	8 S	2024.0	2024.0	2.0	380.0		QL=4 ST=2 TYP=3	
	1415	PALE	8 S	2024.0	2024.0	2.0	150.0		QL=4 ST=2 TYP=3	
	15400	PALE	8 S	2024.0	2024.0	1.0	310.0		QL=4 ST=2 TYP=3	
	8800	PALE	8 S	2024.0	2024.0	1.0	190.0		QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	2037.0	2038.0	1.0	42.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2037.0	2037.0	1.0	95.0		QL=4 ST=2 TYP=3	
	2800	PENT	41 F	2057.0	2103.0	38.0	65.0			
	200	HIRA	46 C	2102.0	2104.0	6.0	220.0		ML	
	245	PALE	49 GB	2102.0	2103.0	4.0	760.0		QL=4 ST=2 TYP=6	
	245	SGMR	49 GB	2102.0	2103.0	2.0	650.0		QL=2 ST=2 TYP=6	
	2695	SGMR	8 S	2102.0	2103.0	2.0	66.0		QL=4 ST=2 TYP=3	
	2800	HIRA	3 S	2103.0	2103.0	1.0	50.0		WR	
	4995	PALE	8 S	2103.0	2103.0	U	52.0		QL=4 ST=2 TYP=3	
	2695	PALE	8 S	2103.0	2103.0	U	56.0		QL=4 ST=2 TYP=3	
	410	PALE	8 S	2103.0	2103.0	1.0	120.0		QL=4 ST=2 TYP=3	
	8800	SGMR	8 S	2103.0	2103.0	1.0	20.0		QL=4 ST=2 TYP=3	
	15400	SGMR	8 S	2103.0	2103.0	1.0	16.0		QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	2103.0	2103.0	1.0	58.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2103.0	2103.0	1.0	130.0		QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	2103.0	2103.0	1.0	49.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	2103.0	2103.0	1.0	44.0		QL=4 ST=2 TYP=3	
	1415	PALE	8 S	2105.0	2105.0	1.0	78.0		QL=4 ST=2 TYP=3	
	610	PALE	8 S	2105.0	2105.0	1.0	62.0		QL=4 ST=2 TYP=3	
	1415	SGMR	8 S	2105.0	2105.0	2.0	86.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2105.0	2106.0	2.0	89.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	2105.0	2105.0	2.0	66.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2105.0	2105.0	2.0	240.0		QL=2 ST=2 TYP=3	
	245	PALE	8 S	2116.0	2116.0	1.0	240.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2116.0	2116.0	1.0	150.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2118.0	2119.0	2.0	170.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2119.0	2119.0	1.0	82.0		QL=4 ST=2 TYP=3	
	245	PALE	49 GB	2127.0	2127.0	1.0	950.0		QL=4 ST=2 TYP=6	
	610	PALE	8 S	2127.0	2127.0	U	400.0		QL=4 ST=2 TYP=3	
	610	SGMR	8 S	2127.0	2127.0	1.0	360.0		QL=4 ST=2 TYP=3	
	410	SGMR	8 S	2127.0	2127.0	1.0	51.0		QL=4 ST=2 TYP=3	
	245	SGMR	49 GB	2127.0	2127.0	1.0	790.0		QL=4 ST=2 TYP=6	
	200	HIRA	8 S	2139.0	2144.0	6.0	220.0		ML	
	245	SGMR	8 S	2143.0	2144.0	1.0	320.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2143.0	2144.0	1.0	320.0		QL=4 ST=4 TYP=3	
	410	SGMR	8 S	2143.0	2144.0	1.0	61.0		QL=4 ST=4 TYP=3	
	410	SGMR	8 S	2143.0	2144.0	1.0	61.0		QL=4 ST=2 TYP=3	
	245	PALE	8 S	2237.0	2237.0	1.0	130.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2237.0	2237.0	1.0	99.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2239.0	2240.0	2.0	380.0		QL=4 ST=2 TYP=3	
	410	SGMR	49 GB	2239.0	2240.0	2.0	580.0		QL=4 ST=2 TYP=6	
	610	SGMR	8 S	2239.0	2240.0	2.0	46.0		QL=4 ST=2 TYP=3	
	200	HIRA	8 S	2240.0	2241.0	5.0	300.0		SR	
	500	HIRA	8 S	2240.0	2240.0	1.0	110.0		0	
	410	PALE	49 GB	2240.0	2240.0	U	740.0		QL=4 ST=2 TYP=6	
	610	PALE	8 S	2240.0	2240.0	U	55.0		QL=4 ST=2 TYP=3	
	245	PALE	8 S	2240.0	2240.0	U	470.0		QL=4 ST=2 TYP=3	
	2840	PEKG	45 C	2304.0	2309.0	13.0	97.6			
	245	SGMR	4 S/F	2305.0	2309.0	4.0	34.0		QL=4 ST=2 TYP=3	
	610	SGMR	4 S/F	2307.0	2308.0	4.0	70.0		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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							(10 -22 W/m 2 Hz)	Peak Mean		
20	410	SGMR	8 S	2307.0	2307.0			47.0		QL=4 ST=2 TYP=3
	2800	HIRA	3 S	2308.0	2309.0	3.0		100.0		SR
	8800	PALE	8 S	2308.0	2308.0	1.0		50.0		QL=4 ST=2 TYP=3
	2695	PALE	8 S	2308.0	2308.0	1.0		140.0		QL=4 ST=2 TYP=3
	4995	PALE	8 S	2308.0	2308.0	1.0		65.0		QL=4 ST=2 TYP=3
	1415	PALE	8 S	2308.0	2308.0	1.0		130.0		QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2308.0	2308.0	52.0		65.0		QL=4 ST=1 TYP=3
	8800	PALE	4 S/F	2308.0	2308.0	52.0		50.0		QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	2308.0	2308.0	52.0		140.0		QL=4 ST=1 TYP=3
	1415	PALE	4 S/F	2308.0	2308.0	52.0		130.0		QL=4 ST=1 TYP=3
	500	HIRA	8 S	2313.0	2316.0	5.0		200.0		WL
	200	HIRA	8 S	2315.0	2317.0	2.0		90.0		0
	245	PALE	8 S	2315.0	2316.0	1.0		490.0		QL=4 ST=2 TYP=3
	410	SGMR	8 S	2315.0	2315.0	1.0		200.0		QL=4 ST=2 TYP=3
	245	SGMR	8 S	2315.0	2316.0	1.0		260.0		QL=4 ST=2 TYP=3
	610	SGMR	8 S	2315.0	2316.0	1.0		120.0		QL=4 ST=2 TYP=3
	610	PALE	8 S	2316.0	2316.0			210.0		QL=4 ST=2 TYP=3
	410	PALE	8 S	2316.0	2316.0			180.0		QL=4 ST=2 TYP=3
245	LEAR	8 S	2325.0	2325.0			140.0		QL=4 ST=2 TYP=3	
21	204	IZMI	44 NS	0600.0E		360.0D			20.0	
	245	LEAR	43 NS	0601.0	0601.0	176.0		78.0		QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0601.0	0601.0	1079.0		78.0		QL=4 ST=1 TYP=1
	127	TORN	44 NS	0620.0E		560.0D			6.0	V=1,DISTURBED
	280	CUBA	44 NS	1300.0E		530.0D			20.0	
	235	CUBA	44 NS	1300.0E		530.0D			13.0	
	245	SGMR	43 NS	1450.0	1518.0	506.0		320.0		QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1450.0	1518.0	550.0		320.0		QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1454.0	1601.0	158.0		290.0		QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1454.0	1505.0	546.0		120.0		QL=4 ST=1 TYP=1
	245	SVTO	43 NS	1454.0	1601.0	546.0		290.0		QL=4 ST=1 TYP=1
	245	LEAR	8 S	0035.0	0036.0	1.0		63.0		QL=4 ST=2 TYP=3
	2800	PENT	40 F	0050.0	0102.0	21.0		26.0		
	2840	PEKG	3 S	0056.0	0059.0	10.0		44.7		
	245	LEAR	8 S	0057.0	0058.0	2.0		390.0		QL=4 ST=2 TYP=3
	245	PALE	49 GB	0057.0	0059.0	2.0		740.0		QL=4 ST=2 TYP=6
	5730	IRKU	45 C	0059.5	0103.6	6.3		52.0		U
	200	HIRA	47 GB	0101.0	0102.0	2.0		1150.0		0
	245	LEAR	49 GB	0101.0	0102.0	2.0		3400.0		QL=4 ST=2 TYP=6
	245	PALE	49 GB	0101.0	0102.0	2.0		4200.0		QL=4 ST=2 TYP=6
	410	PALE	8 S	0101.0	0101.0	1.0		180.0		QL=4 ST=2 TYP=3
	245	PALE	49 GB	0101.0	0102.0	1379.0		4200.0		QL=4 ST=1 TYP=6
	410	PALE	4 S/F	0101.0	0101.0	1379.0		180.0		QL=4 ST=1 TYP=3
	1415	LEAR	8 S	0102.0	0102.0			56.0		QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0102.0	0102.0	1.0		54.0		QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0102.0	0102.0			38.0		QL=4 ST=2 TYP=3
	1415	PALE	8 S	0102.0	0102.0			75.0		QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	0102.0	0102.0	1378.0		75.0		QL=4 ST=1 TYP=3
	2840	PEKG	5 S	0357.0	0401.0	8.0		156.1		
	500	HIRA	4 S/F	0357.0	0401.0	14.0		120.0		ML
	5730	IRKU	4 S/F	0358.5	0359.7	4.5		145.0		U
	200	HIRA	3 S	0359.0	0401.0	7.0		170.0		0
	2800	HIRA	4 S/F	0359.0	0401.0	6.0		140.0		SR
1415	LEAR	49 GB	0359.0	0400.0	3.0		1200.0		QL=4 ST=2 TYP=6	
610	LEAR	4 S/F	0359.0	0359.0	4.0		150.0		QL=4 ST=2 TYP=3	
1415	PALE	49 GB	0359.0	0401.0	3.0		1200.0		QL=4 ST=2 TYP=6	
4995	SVTO	4 S/F	0359.0	0401.0	3.0		100.0		QL=2 ST=2 TYP=3	
8800	SVTO	8 S	0359.0	0400.0	2.0		120.0		QL=2 ST=2 TYP=3	
610	LEAR	4 S/F	0359.0	0359.0	1201.0		150.0		QL=4 ST=1 TYP=3	
1415	LEAR	49 GB	0359.0	0400.0	1201.0		1200.0		QL=4 ST=1 TYP=6	
1415	PALE	49 GB	0359.0	0401.0	1201.0		1200.0		QL=4 ST=1 TYP=6	
4995	SVTO	4 S/F	0359.0	0401.0	1201.0		100.0		QL=2 ST=1 TYP=3	
8800	SVTO	4 S/F	0359.0	0400.0	1201.0		120.0		QL=2 ST=1 TYP=3	
245	LEAR	49 GB	0400.0	0400.0	1.0		540.0		QL=4 ST=2 TYP=6	
410	LEAR	8 S	0400.0	0400.0	1.0		150.0		QL=4 ST=2 TYP=3	
15400	LEAR	8 S	0400.0	0400.0	1.0		47.0		QL=4 ST=2 TYP=3	
8800	LEAR	8 S	0400.0	0400.0	1.0		140.0		QL=4 ST=2 TYP=3	
2695	LEAR	8 S	0400.0	0400.0	2.0		240.0		QL=4 ST=2 TYP=3	
4995	LEAR	8 S	0400.0	0400.0	1.0		110.0		QL=4 ST=2 TYP=3	



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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
21	8800	PALE	8 S	0400.0	0400.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0400.0	0400.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0400.0	0400.0	1.0	750.0			QL=4 ST=2 TYP=6
	2695	PALE	8 S	0400.0	0401.0	2.0	200.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0400.0	0400.0	2.0	120.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0400.0	0400.0	1.0	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0400.0	0401.0	2.0	230.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	0400.0	0401.0	1.0	420.0			QL=2 ST=2 TYP=3
	15400	LEAR	4 S/F	0400.0	0400.0	1200.0	47.0			QL=4 ST=1 TYP=3
	2695	LEAR	4 S/F	0400.0	0400.0	1200.0	240.0			QL=4 ST=1 TYP=3
	410	LEAR	4 S/F	0400.0	0400.0	1200.0	150.0			QL=4 ST=1 TYP=3
	8800	LEAR	4 S/F	0400.0	0400.0	1200.0	140.0			QL=4 ST=1 TYP=3
	4995	LEAR	4 S/F	0400.0	0400.0	1200.0	110.0			QL=4 ST=1 TYP=3
	245	LEAR	49 GB	0400.0	0400.0	1200.0	540.0			QL=4 ST=1 TYP=6
	4995	PALE	4 S/F	0400.0	0400.0	1200.0	120.0			QL=4 ST=1 TYP=3
	410	PALE	4 S/F	0400.0	0400.0	1200.0	250.0			QL=4 ST=1 TYP=3
	245	PALE	49 GB	0400.0	0400.0	1200.0	750.0			QL=4 ST=1 TYP=6
	8800	PALE	4 S/F	0400.0	0400.0	1200.0	120.0			QL=4 ST=1 TYP=3
	610	PALE	4 S/F	0400.0	0400.0	1200.0	130.0			QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	0400.0	0401.0	1200.0	200.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	0400.0	0401.0	1200.0	230.0			QL=2 ST=1 TYP=3
	1415	SVTO	4 S/F	0400.0	0401.0	1200.0	420.0			QL=2 ST=1 TYP=3
	33	UPIC	3 S	0402.0	0402.5	1.0				
	245	LEAR	8 S	0417.0	0417.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0428.0	0429.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0501.0	0513.0	13.0	730.0			QL=2 ST=2 TYP=8
	2840	PEKG	5 S	0511.0	0513.5	5.0	15.5			
	5730	IRKU	1 S	0512.7	0513.0	1.3	14.0		U	
	245	LEAR	49 GB	0513.0	0513.0	2.0	790.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0513.0	0513.0	1.0	100.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0513.0	0513.0	1.0	40.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0513.0	0513.0	1.0	28.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0513.0	0514.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0513.0	0513.0	1.0	730.0			QL=2 ST=3 TYP=6
	1415	SVTO	8 S	0513.0	0514.0	1.0	51.0			QL=4 ST=2 TYP=3
	500	HIRA	4 S/F	0514.0	0523.0	12.0	320.0			WL
	5730	IRKU	4 S/F	0520.0	0521.7	5.5	127.0		U	
	2840	PEKG	5 S	0520.0	0522.8	6.0	75.9			
	200	HIRA	47 GB	0522.0	0523.0	2.0	2200.0			WR
	1415	SVTO	8 S	0522.0	0522.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0522.0	0522.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0522.0	0522.0	2.0	7500.0			QL=2 ST=2 TYP=6
	410	SVTO	49 GB	0522.0	0522.0	2.0	2100.0			QL=4 ST=2 TYP=6
	15400	SVTO	8 S	0522.0	0522.0	1.0	150.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0522.0	0522.0	1.0	81.0			QL=4 ST=2 TYP=3
	610	SVTO	49 GB	0522.0	0522.0	1.0	540.0			QL=4 ST=2 TYP=6
	2695	SVTO	8 S	0522.0	0522.0	1.0	93.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0522.0	0522.0	1118.0	150.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	0522.0	0522.0	1118.0	93.0			QL=4 ST=1 TYP=3
	245	SVTO	49 GB	0522.0	0522.0	1118.0	7500.0			QL=2 ST=1 TYP=6
	4995	SVTO	4 S/F	0522.0	0522.0	1118.0	81.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	0522.0	0522.0	1118.0	180.0			QL=4 ST=1 TYP=3
	410	SVTO	49 GB	0522.0	0522.0	1118.0	2100.0			QL=4 ST=1 TYP=6
	1415	SVTO	4 S/F	0522.0	0522.0	1118.0	110.0			QL=4 ST=1 TYP=3
	610	SVTO	49 GB	0522.0	0522.0	1118.0	540.0			QL=4 ST=1 TYP=6
	2800	HIRA	8 S	0523.0	0523.0	1.0	70.0			WL
	245	LEAR	8 S	0552.0	0552.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0552.0	0552.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0601.0	0601.0	U	83.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0601.5	0601.8	0.5	90.0			
	200	HIRA	40 F	0829.0	0850.0	37.0	280.0			
	245	SVTO	8 S	0851.0	0851.0	U	85.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0853.0	0854.7	7.0	20.0		U	
	8800	SGMR	4 S/F	1009.0	1010.0	3.0	35.0			QL=2 ST=2 TYP=3
	1415	SGMR	4 S/F	1009.0	1010.0	3.0	32.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1010.0	1011.0	2.0	60.0			QL=2 ST=2 TYP=3
	8800	SVTO	8 S	1010.0	1010.0	U	31.0			QL=4 ST=2 TYP=3
	3000	IZMI	5 S	1010.2	1010.6	1.3	19.0		9.0	
	410	SVTO	8 S	1011.0	1011.0	U	71.0			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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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
21	3000	IZMI	5 S	1053.2	1054.0	1.8	29.0	14.0			
	245	SGMR	8 S	1120.0	1121.0	2.0	100.0			QL=4 ST=2 TYP=3	
	410	SGMR	49 GB	1120.0	1120.0	2.0	3600.0			QL=4 ST=2 TYP=6	
	410	SVTO	49 GB	1120.0	1120.0	1.0	3500.0			QL=4 ST=2 TYP=6	
	245	SVTO	8 S	1120.0	1120.0	1.0	260.0			QL=4 ST=3 TYP=3	
	245	SVTO	8 S	1120.0	1120.0	1.0	260.0			QL=4 ST=2 TYP=3	
	410	SVTO	49 GB	1120.0	1120.0	1.0	3500.0			QL=4 ST=3 TYP=6	
	204	IZMI	42 SER	1120.6	1121.5	1.8	99.0				
	410	SGMR	8 S	1217.0	1217.0	2.0	370.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1217.0	1217.0	2.0	3900.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1217.0	1217.0	2.0	3900.0				QL=4 ST=2 TYP=6
	410	SVTO	49 GB	1217.0	1217.0	U	560.0				QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1217.0	1217.0	703.0	3900.0				QL=4 ST=1 TYP=6
	410	SVTO	49 GB	1217.0	1217.0	703.0	560.0				QL=4 ST=1 TYP=6
	245	SGMR	8 S	1219.0	1219.0	U	200.0				QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1233.0E	1233.0	142.0D	19.0	9.0			SUNRISE
	6700	CUBA	21 GRF	1319.0E	1319.0	109.0D	25.0	12.0			13L
	2800	PENT	41 F	1359.0	1435.0	56.0	40.0				
	4995	SVTO	4 S/F	1405.0	1408.0	4.0	67.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1405.0	1408.0	5.0	90.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1405.0	1409.0	10.0	73.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1405.0	1408.0	13.0	99.0				QL=4 ST=2 TYP=3
	6700	CUBA	46 C	1405.0U	1408.3	6.0U	80.0				13L
	9500	CUBA	46 C	1405.1	1408.4	5.7	62.0	28.0			
	15400	SVTO	4 S/F	1406.0	1408.0	4.0	54.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1406.0	1409.0	12.0	55.0				QL=4 ST=2 TYP=3
	9500	CUBA	S	1413.3	1413.9	1.2	25.0	12.0			
	6700	CUBA	1 S	1413.4	1413.8	1.4	33.0	16.0			20L
	8800	SGMR	4 S/F	1433.0	1435.0	6.0	140.0				QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1433.0	1435.0	5.0	140.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1433.0	1435.0	567.0	140.0				QL=4 ST=1 TYP=3
	9500	CUBA	46 C	1433.5	1435.3	3.5	120.0				
	6700	CUBA	4 S/F	1433.7	1435.4	4.3	103.0	51.0			7L
	4995	SGMR	4 S/F	1434.0	1435.0	5.0	74.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1434.0	1435.0	5.0	49.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1434.0	1435.0	5.0	150.0				QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1434.0	1435.0	2.0	120.0				QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1434.0	1435.0	2.0	56.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1434.0	1435.0	566.0	49.0				QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	1434.0	1435.0	566.0	74.0				QL=4 ST=1 TYP=3
	15400	SGMR	4 S/F	1434.0	1435.0	566.0	150.0				QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1435.0	1435.0	4.0	14.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1435.0	1435.0	U	34.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1439.0	1440.0	1.0	54.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1439.0	1440.0	1.0	66.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1444.0	1444.0	1.0	59.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1449.0	1451.0	2.0	85.0				QL=4 ST=2 TYP=3
410	SVTO	8 S	1535.0	1535.0	1.0	60.0				QL=4 ST=2 TYP=3	
6700	CUBA	20 GRF	1623.0	1634.0	20.0	14.0	7.0			19L	
245	PALE	8 S	1643.0	1644.0	2.0	110.0				QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1643.0	1644.0	437.0	110.0				QL=4 ST=1 TYP=3	
15400	PALE	8 S	1649.0	1649.0	1.0	64.0				QL=4 ST=2 TYP=3	
410	SGMR	8 S	1707.0	1707.0	U	69.0				QL=4 ST=2 TYP=3	
410	PALE	8 S	1716.0	1716.0	1.0	110.0				QL=4 ST=2 TYP=3	
410	PALE	4 S/F	1716.0	1716.0	404.0	110.0				QL=4 ST=1 TYP=3	
2695	SVTO	8 S	1732.0	1732.0	U	23.0				QL=2 ST=2 TYP=3	
15400	SVTO	8 S	1732.0	1732.0	U	49.0				QL=2 ST=2 TYP=3	
8800	SVTO	8 S	1732.0	1732.0	U	56.0				QL=2 ST=2 TYP=3	
6700	CUBA	21 GRF	1808.0	2047.0	204.0D	26.0				15L 2132 OFF	
2800	PENT	21 GRF	1822.0	1833.0	58.0	10.0					
6700	CUBA	1 S	2017.0	2017.7	1.4	18.0	9.0			17L	
2800	PENT	21 GRF	2036.0	2102.0	60.0	15.0					
2840	PEKG	5 S	2242.0	2246.0	7.0	31.0					
5730	IRKU	21 GRF	2353.8	2359.9	17.2	26.0				U	
22	245	LEAR	43 NS	0110.0	0222.0	510.0	160.0			QL=4 ST=2 TYP=1	
	245	LEAR	43 NS	0110.0	0222.0	1370.0	160.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0110.0	0127.0	1370.0	74.0			QL=4 ST=1 TYP=1	
	245	LEAR	43 NS	0110.0	0118.0	1370.0	51.0			QL=4 ST=1 TYP=1	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
22	245	LEAR	43 NS	0110.0	0137.0	1370.0	120.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	0155.0	0158.0U	1325.0	90.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0447.0	0527.0	249.0	100.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	0447.0	0527.0	1153.0	100.0			QL=4 ST=1 TYP=1
	204	IZMI	44 NS	0600.0E		360.0D		35.0		
	127	TORN	44 NS	0620.0E		560.0D		30.0		V=2
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	235	CUBA	44 NS	1300.0E		530.0D		9.0		
	245	LEAR	43 NS	2348.0	2349.0	12.0	75.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2348.0	0047.0	101.0	120.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0000.0	0000.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0051.0	0051.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0231.0	0232.0	2.0	200.0			QL=2 ST=2 TYP=3
	2840	PEKG	3 S	0415.0	0421.0	15.0	81.4			
	2800	HIRA	3 S	0418.0	0421.0	8.0	60.0			
	4995	LEAR	4 S/F	0419.0	0421.0	4.0	82.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0419.0	0421.0	4.0	96.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0419.0	0421.0	4.0	61.0			QL=2 ST=2 TYP=3
	5730	IRKU	4 S/F	0419.0	0421.7	11.0	63.0		U	
	15400	LEAR	8 S	0420.0	0421.0	2.0	71.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0420.0	0421.0	2.0	73.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0420.0	0421.0	2.0	93.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0420.0	0421.0	2.0	94.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0420.0	0421.0	5.0	53.0			QL=2 ST=2 TYP=3
	8800	SVTO	4 S/F	0420.0	0421.0	5.0	79.0			QL=2 ST=2 TYP=3
	2695	SVTO	4 S/F	0420.0	0421.0	3.0	59.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0458.0	0458.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0458.0	0458.0	1.0	90.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	0458.0	0458.0	1.0	130.0			QL=4 ST=2 TYP=3
	33	UPIC	3 S	0514.0	0514.5	1.5				
	5730	IRKU	4 S/F	0615.0	0619.3	15.0	14.0		U	
	5730	IRKU	21 GRF	0651.7	0659.0	88.3	11.0		U	
	410	LEAR	8 S	0658.0	0659.0	2.0	72.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0658.0	0659.0	2.0	71.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0751.3	0751.3	0.2	92.0			
	2840	PEKG	5 S	0823.0	0824.8	4.0	88.0			
	2695	LEAR	8 S	0824.0	0824.0	1.0	73.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0824.0	0824.0	1.0	82.0			QL=4 ST=2 TYP=3
	5730	IRKU	45 C	0824.0	0825.0	21.0	18.0		U	
	3000	IZMI	7 C	0824.6	0824.8	0.5	84.0		24.0	
	410	LEAR	8 S	0847.0	0847.0	U	310.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0847.0	0847.0	1.0	580.0			QL=4 ST=2 TYP=6
	5730	IRKU	42 SER	0854.0	0907.1	51.0	32.0		U	
	8800	SVTO	8 S	0906.0	0907.0	1.0	61.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0906.0	0907.0	1.0	61.0			QL=4 ST=3 TYP=3
	15400	SVTO	8 S	0906.0	0907.0	1.0	29.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0906.0	0907.0	1.0	29.0			QL=4 ST=3 TYP=3
	2840	PEKG	5 S	0937.0	0939.0	5.0	10.9			
	3000	IZMI	22 GRF	0937.1	0939.0	3.5	19.0		9.0	
	3000	IZMI	45 C	1108.6	1124.9	48.6	61.0		24.0	
	204	IZMI	25 R	1115.4		37.5		60.0		
	610	SGMR	4 S/F	1118.0	1119.0	3.0	150.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1118.0	1119.0	24.0	200.0			QL=2 ST=2 TYP=8
	610	SGMR	4 S/F	1118.0	1119.0	762.0	150.0			QL=4 ST=1 TYP=3
	410	SGMR	8 S	1119.0	1120.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1119.0	1120.0	3.0	74.0			QL=4 ST=2 TYP=3
	2695	SGMR	20 GRF	1119.0	1124.0	14.0	82.0			QL=4 ST=2 TYP=2
	2695	SVTO	20 GRF	1119.0	1125.0	22.0	70.0			QL=4 ST=2 TYP=2
	1415	SVTO	20 GRF	1119.0	1134.0	22.0	75.0			QL=4 ST=2 TYP=2
	410	SGMR	4 S/F	1119.0	1120.0	761.0	66.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1119.0	1124.0	761.0	82.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1120.0	1129.0	13.0	57.0			QL=4 ST=2 TYP=3
	1415	SGMR	48 C	1120.0	1129.0	760.0	57.0			QL=4 ST=1 TYP=8
	4995	SVTO	20 GRF	1122.0	1134.0	20.0	53.0			QL=4 ST=2 TYP=2
	15400	SGMR	4 S/F	1123.0	1132.0	10.0	56.0			QL=4 ST=2 TYP=3
	8800	SVTO	20 GRF	1124.0	1134.0	18.0	43.0			QL=4 ST=2 TYP=2
	4995	SGMR	8 S	1125.0	1125.0	U	26.0			QL=4 ST=2 TYP=3
	15400	SVTO	20 GRF	1126.0	1136.0	16.0	47.0			QL=4 ST=2 TYP=2
	245	SGMR	48 C	1129.0	1133.0	4.0	70.0			QL=4 ST=2 TYP=8

S O L A R R A D I O E M I S S I O N  
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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
22	8800	SGMR	4 S/F	1129.0	1133.0	4.0	25.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1129.0	1129.0	751.0	65.0			QL=4 ST=1 TYP=3
	33	UPIC	46 C	1129.5	1130.5	5.5				
	245	SVTO	4 S/F	1132.0	1136.0	10.0	130.0			QL=2 ST=2 TYP=3
	204	IZMI	45 C	1132.2	1134.7	84.0	122.0			
	1415	SGMR	4 S/F	1133.0	1134.0	25.0	69.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1133.0	1134.0	25.0	140.0			QL=4 ST=2 TYP=3
	610	SGMR	20 GRF	1133.0	1134.0	25.0	87.0			QL=4 ST=2 TYP=2
	8800	SGMR	48 C	1133.0	1146.0	25.0	82.0			QL=4 ST=2 TYP=8
	2695	SGMR	4 S/F	1133.0	1134.0	25.0	54.0			QL=4 ST=2 TYP=3
	4995	SGMR	48 C	1133.0	1146.0	25.0	65.0			QL=4 ST=2 TYP=8
	15400	SGMR	4 S/F	1133.0	1135.0	25.0	66.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1133.0	1134.0	25.0	71.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1133.0	1134.0	747.0	28.0			QL=4 ST=1 TYP=3
	2695	SGMR	4 S/F	1133.0	1134.0	747.0	54.0			QL=4 ST=1 TYP=3
	410	SGMR	4 S/F	1133.0	1134.0	747.0	71.0			QL=4 ST=1 TYP=3
	4995	SGMR	4 S/F	1133.0	1134.0	747.0	33.0			QL=4 ST=1 TYP=3
	1415	SGMR	4 S/F	1133.0	1134.0	747.0	69.0			QL=4 ST=1 TYP=3
	610	SGMR	4 S/F	1133.0	1134.0	747.0	87.0			QL=4 ST=1 TYP=3
	245	SGMR	4 S/F	1133.0	1134.0	747.0	140.0			QL=4 ST=1 TYP=3
	410	SVTO	4 S/F	1134.0	1134.0	9.0	73.0			QL=4 ST=2 TYP=3
	33	UPIC	40 F	1135.0	1155.0	45.5				
	2800	PENT	41 F	1443.0	1447.0	13.0	11.0			
	245	SGMR	4 S/F	1504.0	1506.0	4.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1504.0	1506.0	3.0	150.0			QL=4 ST=2 TYP=3
	2800	PENT	20 GRF	1534.0	1550.0	17.0	13.0			
	245	SGMR	8 S	1547.0	1547.0	U	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1547.0	1547.0	U	130.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1650.0	1650.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1650.0	1650.0	U	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1650.0	1650.0	U	80.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1821.0	1821.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1839.0	1840.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1908.0	1908.0	U	220.0			QL=4 ST=2 TYP=3
	2800	PENT	42 SER	2029.0	2043.0	87.0	10.0			
	245	SGMR	8 S	2052.0	2052.0	U	120.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2105.0	2106.0	1.0	53.0			QL=4 ST=2 TYP=3	
245	LEAR	4 S/F	2334.0	2336.0	3.0	150.0			QL=4 ST=2 TYP=3	
2800	PENT	21 GRF	2346.0	2353.0	41.0	8.0				
23	204	IZMI	44 NS	0600.0E		360.0D	25.0			
	127	TORN	44 NS	0620.0E		560.0D	30.0			V=2
	245	SGMR	43 NS	1157.0	1203.0	24.0	80.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1157.0	1203.0	723.0	80.0			QL=4 ST=1 TYP=1
	280	CUBA	44 NS	1300.0E		530.0D	14.0			
	235	CUBA	44 NS	1300.0E		530.0D	10.0			
	5730	IRKU	1 S	0030.0	0031.2	3.5	12.0			U
	500	HIRA	8 S	0047.0	0049.0	6.0	60.0			
	200	HIRA	8 S	0047.0	0048.0	3.0	120.0			
	410	LEAR	8 S	0049.0	0049.0	U	350.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0053.0	0055.0	4.0	6.3			
	245	LEAR	4 S/F	0054.0	0055.0	7.0	270.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0055.0	0055.0	U	330.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0431.0	0434.0	6.0	70.0			
	410	LEAR	4 S/F	0431.0	0434.0	3.0	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0432.0	0434.0	2.0	93.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0432.0	0434.0	5.0	9.7			
	5730	IRKU	1 S	0536.3	0537.5	3.2	10.0			U
	245	LEAR	8 S	0656.0	0657.0	2.0	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0657.0	0657.0	U	110.0			QL=4 ST=2 TYP=3
	5730	IRKU	4 S/F	0715.5	0716.7	9.5	14.0			U
	245	SVTO	8 S	0908.0	0908.0	U	58.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	0922.0	0922.0	U	89.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0924.0	0925.0	1.0	56.0			QL=4 ST=2 TYP=3	
2840	PEKG	3 S	0951.0	0957.2	12.0	56.9				
3000	IZMI	45 C	0951.9	0956.9	20.8	66.0	10.0			
15400	SVTO	8 S	0956.0	0957.0	2.0	130.0			QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	0956.0	0957.0	4.0	240.0			QL=4 ST=2 TYP=3	
2695	SVTO	8 S	0956.0	0956.0	1.0	44.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
23	4995	SVTO	4 S/F	0956.0	0956.0	4.0	210.0			QL=4 ST=2 TYP=3	
	5730	IRKU	46 C	0956.0	0958.8	10.0	287.0	U			
	8800	SVTO	8 S	1007.0	1007.0	1.0	62.0			QL=4 ST=2 TYP=3	
	4995	SVTO	8 S	1007.0	1007.0	U	46.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1015.0	1016.0	1.0	71.0			QL=2 ST=2 TYP=3	
	245	SVTO	8 S	1016.0	1016.0	U	100.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1027.0	1027.0	2.0	61.0			QL=2 ST=2 TYP=3	
	410	SGMR	8 S	1027.0	1027.0	2.0	110.0			QL=2 ST=2 TYP=3	
	245	SVTO	8 S	1027.0	1027.0	U	90.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1027.0	1027.0	1.0	130.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1040.0	1040.0	1.0	150.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1040.0	1040.0	1.0	120.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	1108.0	1108.0	1.0	60.0			QL=4 ST=2 TYP=3	
	127	TORN	4 S/F	1129.0	1129.4	1.5	300.0	80.0			
	245	SVTO	8 S	1140.0	1141.0	1.0	67.0				QL=4 ST=2 TYP=3
	245	SGMR	8 S	1141.0	1141.0	U	89.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1157.0	1158.0	1.0	75.0				QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1253.0E	1253.0	228.0D	18.0				SUNRISE
	6700	CUBA	21 GRF	1259.0E	1259.0	166.0D	13.0				00L
	245	SGMR	8 S	1326.0	1326.0	U	59.0				QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1348.0	1408.0	147.0	49.0				
	9500	CUBA	2 S/F	1405.3	1407.9	5.5	27.0	13.0			
	6700	CUBA	2 S/F	1405.5	1408.9	6.7	44.0	22.0			8L
	8800	SGMR	4 S/F	1406.0	1409.0	11.0	52.0				QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1406.0	1408.0	11.0	57.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1406.0	1408.0	11.0	65.0				QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1407.0	1408.0	2.0	38.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1407.0	1408.0	4.0	54.0				QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1407.0	1408.0	2.0	42.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1407.0	1408.0	4.0	61.0				QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1407.0	1409.0	10.0	36.0				QL=4 ST=2 TYP=3
	410	SGMR	8 S	1538.0	1539.0	1.0	140.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1538.0	1539.0	1.0	110.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1611.0	1612.0	1.0	58.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1634.0	1634.0	U	65.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1636.0	1637.0	1.0	58.0				QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1718.0	1801.0	79.0	13.0	6.0			
	2800	PENT	29 PBI	1743.0	1751.0	125.0	8.0				
	6700	CUBA	21 GRF	1748.0	1757.0	36.0	10.0	5.0			14L
	6700	CUBA	2 S/F	1750.8	1751.2	3.2	38.0	19.0			3L
	9500	CUBA	2 S/F	1751.8	1752.2	3.8	33.0	16.0			
	6700	CUBA	20 GRF	2052.0	2106.0	74.0	8.0	4.0			8L
245	PALE	49 GB	2054.0	2054.0	U	560.0				QL=4 ST=2 TYP=6	
245	SGMR	8 S	2054.0	2054.0	1.0	380.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2243.0	2243.0	U	340.0				QL=4 ST=2 TYP=3	
245	SGMR	8 S	2243.0	2243.0	1.0	290.0				QL=4 ST=2 TYP=3	
24	235	CUBA	44 NS	1300.0E		480.0D		7.0			
	280	CUBA	44 NS	1300.0E		480.0D		11.0			
	245	SGMR	43 NS	1754.0	1826.0	36.0	76.0				QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1754.0	1826.0	366.0	76.0				QL=4 ST=1 TYP=1
	410	PALE	4 S/F	0148.0	0150.0	3.0	440.0				QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0148.0	0150.9	13.0	60.9				
	245	PALE	49 GB	0149.0	0150.0	2.0	2200.0				QL=4 ST=2 TYP=6
	245	PALE	49 GB	0149.0	0150.0	1331.0	2200.0				QL=4 ST=1 TYP=6
	5730	IRKU	4 S/F	0149.6	0150.5	4.0	150.0		U		
	4995	PALE	8 S	0150.0	0150.0	1.0	100.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	0150.0	0150.0	1.0	150.0				QL=4 ST=2 TYP=3
	1415	PALE	8 S	0150.0	0150.0	1.0	52.0				QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0150.0	0150.0	1330.0	100.0				QL=4 ST=1 TYP=3
	245	PALE	48 C	0153.0	0156.0	3.0	92.0				QL=4 ST=2 TYP=8
	410	LEAR	4 S/F	0155.0	0158.0	3.0	50.0				QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0155.0	0159.0	4.0	84.0				QL=4 ST=2 TYP=3
	610	PALE	8 S	0156.0	0156.0	1.0	70.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0159.0	0159.0	U	120.0				QL=4 ST=2 TYP=3
	410	LEAR	8 S	0430.0	0431.0	1.0	88.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0903.0	0903.0	U	88.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0903.0	0903.0	U	96.0				QL=4 ST=2 TYP=3
204	IZMI	7 C	0903.0	0903.6	1.0	63.0					

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JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
24	410	LEAR	8 S	0911.0	0912.0	1.0	100.0			QL=4 ST=2 TYP=3	
	204	IZMI	7 C	0911.9	0912.1	0.7	18.0				
	410	SVTO	8 S	0912.0	0912.0	U	81.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	0914.0	0915.0	1.0	88.0			QL=4 ST=2 TYP=3	
	204	IZMI	7 C	0914.6	0915.2	1.1	106.0				
	3000	IZMI	7 C	0914.6	0915.2	2.8	14.0	5.0			
	245	SVTO	8 S	0915.0	0915.0	U	95.0			QL=4 ST=2 TYP=3	
	3000	IZMI	5 S	1047.9	1048.1	0.4	14.0	6.0			
25	204	IZMI	43 NS	0600.0		360.0D		5.0			
	245	SGMR	43 NS	1245.0	1245.0	37.0	71.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1245.0	1245.0	675.0	71.0			QL=4 ST=1 TYP=1	
	245	SVTO	43 NS	1501.0	1516.0	15.0	100.0			QL=4 ST=2 TYP=1	
	245	SVTO	43 NS	1501.0	1511.0	539.0	65.0			QL=4 ST=1 TYP=1	
	245	SGMR	43 NS	1511.0	1714.0	124.0	110.0			QL=4 ST=2 TYP=1	
	245	SGMR	43 NS	1511.0	1511.0	529.0	85.0			QL=4 ST=1 TYP=1	
	235	CUBA	44 NS	1700.0E		205.0D					
	280	CUBA	44 NS	1700.0E		205.0D			8.0		
	245	LEAR	8 S	0029.0	0029.0	U	55.0		16.0		QL=4 ST=2 TYP=3
	2840	PEKG	47 GB	0244.0	0248.0	20.0	582.0				
	610	LEAR	48 C	0246.0	0248.0	8.0	400.0				QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0246.0	0248.0	8.0	1200.0				QL=4 ST=2 TYP=8
	410	LEAR	48 C	0246.0	0248.0	5.0	26000.0				QL=4 ST=2 TYP=8
	2695	LEAR	48 C	0246.0	0248.0	8.0	690.0				QL=4 ST=2 TYP=8
	1415	PALE	49 GB	0246.0	0248.0	8.0	1600.0				QL=4 ST=3 TYP=6
	4995	PALE	49 GB	0246.0	0248.0	8.0	870.0				QL=4 ST=3 TYP=6
	4995	PALE	49 GB	0246.0	0248.0	8.0	870.0				QL=4 ST=2 TYP=6
	1415	PALE	49 GB	0246.0	0248.0	8.0	1600.0				QL=4 ST=2 TYP=6
	410	PALE	49 GB	0246.0	0249.0	8.0	42000.0				QL=4 ST=2 TYP=6
	410	PALE	49 GB	0246.0	0249.0	8.0	42000.0				QL=4 ST=3 TYP=6
	8800	PALE	49 GB	0246.0	0248.0	8.0	2000.0				QL=4 ST=3 TYP=6
	245	PALE	49 GB	0246.0	0248.0	8.0	82000.0				QL=4 ST=3 TYP=6
	8800	PALE	49 GB	0246.0	0248.0	8.0	2000.0				QL=4 ST=2 TYP=6
	15400	PALE	49 GB	0246.0	0248.0	8.0	3500.0				QL=4 ST=2 TYP=6
	610	PALE	4 S/F	0246.0	0248.0	8.0	490.0				QL=4 ST=2 TYP=3
	2695	PALE	49 GB	0246.0	0248.0	8.0	730.0				QL=4 ST=3 TYP=6
	15400	PALE	49 GB	0246.0	0248.0	8.0	3500.0				QL=4 ST=3 TYP=6
	610	PALE	4 S/F	0246.0	0248.0	8.0	490.0				QL=4 ST=3 TYP=3
	245	PALE	49 GB	0246.0	0248.0	8.0	82000.0				QL=4 ST=2 TYP=6
	2695	PALE	49 GB	0246.0	0248.0	8.0	730.0				QL=4 ST=2 TYP=6
	4995	LEAR	48 C	0246.0	0248.0	11.0	840.0				QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0246.0	0248.0	14.0	2300.0				QL=4 ST=2 TYP=8
	4995	PALE	49 GB	0246.0	0248.0	1274.0	880.0				QL=4 ST=1 TYP=6
	2695	PALE	49 GB	0246.0	0248.0	1274.0	740.0				QL=4 ST=1 TYP=6
	5730	IRKU	46 C	0246.2	0248.0U	26.0	210.0			U	
	15400	LEAR	48 C	0247.0	0248.0	7.0	2600.0				QL=4 ST=2 TYP=8
	245	LEAR	48 C	0247.0	0248.0	8.0	61000.0				QL=4 ST=2 TYP=8
	15400	PALE	49 GB	0247.0	0248.0	1273.0	3500.0				QL=4 ST=1 TYP=6
	8800	PALE	49 GB	0247.0	0248.0	1273.0	2000.0				QL=4 ST=1 TYP=6
	245	LEAR	4 S/F	0317.0	0319.0	6.0	50.0				QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0318.0	0318.0	3.0	68.0				QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0318.0	0318.0	1242.0	68.0				QL=4 ST=1 TYP=3
	410	LEAR	8 S	0319.0	0320.0	1.0	28.0				QL=4 ST=2 TYP=3
	410	PALE	8 S	0320.0	0320.0	U	57.0				QL=4 ST=2 TYP=3
	410	PALE	4 S/F	0320.0	0320.0	1240.0	57.0				QL=4 ST=1 TYP=3
	410	LEAR	48 C	0325.0	0407.0	138.0	930.0				QL=4 ST=2 TYP=8
	245	PALE	48 C	0327.0	0409.0	79.0	23000.0				QL=4 ST=2 TYP=8
	410	PALE	48 C	0327.0	0410.0	79.0	1900.0				QL=4 ST=2 TYP=8
	410	PALE	48 C	0327.0	0404.0	1233.0	700.0				QL=4 ST=1 TYP=8
	245	PALE	48 C	0327.0	0405.0	1233.0	19000.0				QL=4 ST=1 TYP=8
	245	PALE	48 C	0327.0	0409.0	1233.0	23000.0				QL=4 ST=1 TYP=8
245	PALE	49 GB	0327.0	0329.0	1233.0	970.0				QL=4 ST=1 TYP=6	
245	PALE	48 C	0327.0	0337.0	1233.0	5800.0				QL=4 ST=1 TYP=8	
410	PALE	48 C	0327.0	0336.0	1233.0	600.0				QL=4 ST=1 TYP=8	
245	LEAR	48 C	0328.0	0409.0	150.0	19000.0				QL=4 ST=2 TYP=8	
610	PALE	8 S	0408.0	0408.0	U	47.0				QL=4 ST=2 TYP=3	
245	SVTO	49 GB	0410.0	0425.0	1190.0	2200.0				QL=2 ST=1 TYP=6	
245	SVTO	49 GB	0410.0	0435.0U	125.0	3900.0				QL=2 ST=2 TYP=6	
245	SVTO	48 C	0410.0	0435.0U	1190.0	3900.0				QL=2 ST=1 TYP=8	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
25	410	SVTO	49 GB	0431.0	0450.0	86.0	640.0			QL=2 ST=2 TYP=6
	410	SVTO	48 C	0431.0	0445.0	1169.0	610.0			QL=2 ST=1 TYP=8
	2840	PEKG	45 C	0439.0	0454.2	27.0	107.6			
	2840	PEKG	45 C	0439.0	0445.6		24.8			
	5730	IRKU	46 C	0441.3	0454.5	26.7	150.0		U	
	4995	LEAR	4 S/F	0449.0	0454.0	8.0	130.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0449.0	0454.0	8.0	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0449.0	0454.0	8.0	220.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0450.0	0454.0	7.0	130.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0450.0	0454.0	8.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0450.0	0454.0	8.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0450.0	0454.0	7.0	180.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	0450.0	0454.0	8.0	130.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0451.0	0454.0	6.0	72.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0451.0	0454.0	7.0	67.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0640.0	0641.0	1.0	480.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0640.0	0641.0	1.0	310.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0651.0	0651.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0656.0	0656.0	U	59.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0656.0	0656.0	U	68.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0716.7	0720.0	7.3	14.0		U	
	245	SVTO	8 S	0923.0	0923.0	2.0	72.0			QL=4 ST=2 TYP=3
	3000	IZMI	22 GRF	1017.9	1019.8	14.2	11.0		4.0	
	610	SVTO	8 S	1019.0	1019.0	U	64.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1046.0	1046.0	1.0	210.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1046.0	1046.0	U	340.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1145.0	1145.0	U	63.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1154.0	1154.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1214.0	1220.0	6.0	51.0			QL=4 ST=2 TYP=8
	245	SVTO	8 S	1242.0	1242.0	U	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1245.0	1245.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1322.0	1322.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1446.0	1447.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1457.0	1457.0	2.0	80.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1610.0	1615.0	10.0	5.0			
	245	SVTO	8 S	1714.0	1714.0	U	85.0			QL=4 ST=2 TYP=3
	9500	CUBA	21 GRF	1825.0	1855.0	77.0	15.0		7.0	
	6700	CUBA	21 GRF	1830.0	1855.0	40.0	28.0		14.0	22L
	9500	CUBA	32 ABS	1831.2	1842.7	12.3	-9.0		-4.0	
	2800	PENT	40 F	1840.0	1845.0	24.0	126.0			
	610	SGMR	49 GB	1842.0	1844.0	4.0	630.0			QL=4 ST=2 TYP=6
	610	SGMR	49 GB	1842.0	1844.0	318.0	630.0			QL=4 ST=1 TYP=6
	410	SGMR	49 GB	1843.0	1846.0	7.0	5900.0			QL=4 ST=2 TYP=6
	4995	SGMR	4 S/F	1843.0	1845.0	7.0	300.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1843.0	1846.0	317.0	5900.0			QL=4 ST=1 TYP=6
	4995	SGMR	4 S/F	1843.0	1845.0	317.0	300.0			QL=4 ST=1 TYP=3
	9500	CUBA	47 GB	1843.5	1844.0	7.5	673.0			
	9500	CUBA	47 GB	1843.5	1849.2		47.0			
	6700	CUBA	47 GB	1843.5	1850.2		111.0			5L
	6700	CUBA	47 GB	1843.5	1844.8	8.3	666.0			7L
15400	PALE	8 S	1844.0	1845.0	2.0	380.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S	1844.0	1845.0	2.0	53.0			QL=4 ST=2 TYP=3	
2695	PALE	8 S	1844.0	1845.0	1.0	99.0			QL=4 ST=2 TYP=3	
8800	PALE	8 S	1844.0	1845.0	2.0	470.0			QL=4 ST=2 TYP=3	
4995	PALE	8 S	1844.0	1845.0	2.0	260.0			QL=4 ST=2 TYP=3	
1415	SGMR	48 C	1844.0	1849.0	6.0	110.0			QL=4 ST=2 TYP=8	
2695	SGMR	4 S/F	1844.0	1845.0	6.0	130.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	1844.0	1845.0	6.0	480.0			QL=4 ST=2 TYP=3	
15400	SGMR	4 S/F	1844.0	1845.0	6.0	370.0			QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	1844.0	1845.0	316.0	130.0			QL=4 ST=1 TYP=3	
1415	SGMR	4 S/F	1844.0	1845.0	316.0	64.0			QL=4 ST=1 TYP=3	
8800	SGMR	4 S/F	1844.0	1845.0	316.0	480.0			QL=4 ST=1 TYP=3	
15400	SGMR	4 S/F	1844.0	1845.0	316.0	370.0			QL=4 ST=1 TYP=3	
245	SGMR	49 GB	1845.0	1846.0	5.0	630.0			QL=4 ST=2 TYP=6	
235	CUBA	6 S	1845.9	1846.2	1.4	108.0				
280	CUBA	6 S	1845.9	1846.2	1.4	186.0				
4995	PALE	8 S	1848.0	1850.0	2.0	53.0			QL=4 ST=2 TYP=3	
15400	PALE	4 S/F	1848.0	1850.0	8.0	32.0			QL=4 ST=2 TYP=3	
610	PALE	4 S/F	1848.0	1850.0	3.0	51.0			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 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
25	1415	PALE	4 S/F	1848.0	1850.0	8.0	110.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1848.0	1849.0	2.0	65.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1848.0	1853.0	8.0	24.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1848.0	1850.0	3.0	85.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	1848.0	1856.0	10.0	600.0			QL=4 ST=2 TYP=6
	610	SGMR	46 C	1850.0	1855.0	9.0	18.0			QL=4 ST=2 TYP=8
	4995	SGMR	4 S/F	1850.0	1850.0	9.0	60.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1850.0	1850.0	8.0	48.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1850.0	1851.0	9.0	48.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1850.0	1850.0	8.0	53.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1850.0	1850.0	9.0	24.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1850.0	1858.0	11.0	50.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1850.0	1900.0	11.0	73.0			QL=4 ST=2 TYP=8
	245	PALE	49 GB	2001.0	2001.0	U	770.0			QL=4 ST=2 TYP=6
	2800	PENT	29 PBI	2030.0	2033.0	14.0	7.0			
	9500	CUBA	1 S	2033.0	2033.6	2.0	18.0	9.0		
	6700	CUBA	1 S	2033.2	2033.6	2.1	26.0	13.0		12R
	245	SGMR	4 S/F	2239.0	2241.0	3.0	71.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2243.0	2244.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2243.0	2243.0	2.0	79.0			QL=4 ST=2 TYP=3
245	PALE	49 GB	2330.0	2330.0	U	660.0			QL=4 ST=2 TYP=6	
26	204	IZMI	44 NS	0600.0E		360.0D		5.0		
	127	TORN	44 NS	0900.0E		340.0D		3.0		V=1, DISTURBED
	245	SGMR	43 NS	1442.0	1442.0	10.0	140.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	1442.0	1442.0	558.0	140.0			QL=4 ST=1 TYP=1
	245	LEAR	8 S	0010.0	0011.0	1.0	67.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0011.0	0011.0	U	120.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0138.0	0138.9	2.0	11.0		U	
	5730	IRKU	1 S	0313.0	0314.6	4.7	30.0		U	
	15400	LEAR	8 S	0314.0	0315.0	2.0	93.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0314.0	0315.0	2.0	43.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0315.0	0315.0	U	31.0			QL=4 ST=2 TYP=3
	5730	IRKU	1 S	0552.0	0555.8	6.0	4.0		U	
	5730	IRKU	1 S	0626.5	0627.6	4.5	7.0		U	
	5730	IRKU	4 S/F	0731.0	0740.0	28.0	27.0		U	
	4995	SVTO	8 S	0739.0	0739.0	2.0	36.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0739.0	0739.0	1.0	50.0			QL=4 ST=2 TYP=3
	3000	IZMI	5 S	0935.2	0936.4	2.4	11.0	6.0		
	5730	IRKU	1 S	0935.7	0936.5	2.4	20.0		U	
	3000	IZMI	1 S	1106.6	1106.8	0.5	10.0	4.0		
	204	IZMI	42 SER	1143.2	1143.3	1.6	137.0	8.0		
	245	SGMR	8 S	1342.0	1342.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1342.0	1342.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1440.0	1440.0	2.0	65.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1440.0	1442.0	3.0	130.0			QL=4 ST=2 TYP=8
	245	SVTO	4 S/F	1450.0	1452.0	3.0	81.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1557.0	1558.0	2.0	92.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	1557.0	1558.0	2.0	63.0			QL=4 ST=3 TYP=3
	410	SGMR	8 S	1558.0	1558.0	2.0	89.0			QL=4 ST=2 TYP=3
245	SVTO	8 S	1558.0	1558.0	U	58.0			QL=4 ST=3 TYP=3	
410	SVTO	8 S	1558.0	1558.0	1.0	130.0			QL=4 ST=3 TYP=3	
245	SVTO	8 S	1558.0	1558.0	U	58.0			QL=4 ST=2 TYP=3	
15400	SVTO	8 S	1714.0	1715.0	1.0	40.0			QL=2 ST=2 TYP=3	
8800	SVTO	8 S	1715.0	1715.0	U	56.0			QL=2 ST=2 TYP=3	
2800	PENT	3 S	2203.0	2209.0	14.0	16.0				
245	PALE	8 S	2210.0	2211.0	2.0	67.0			QL=4 ST=2 TYP=3	
27	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	280	CUBA	44 NS	1300.0E		530.0D		15.0		
	200	HIRA	42 SER	0015.0	0016.0	8.0	240.0			ML
	200	HIRA	42 SER	0051.0	0059.0	8.0	120.0			WR
	2840	PEKG	5 S	0111.0	0114.4	6.0	11.2			
	500	HIRA	8 S	0114.0	0114.0	1.0	100.0			0
	610	PALE	8 S	0114.0	0114.0	U	59.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	0114.0	0114.0	1366.0	59.0			QL=4 ST=1 TYP=3
	5730	IRKU	8 S	0119.5	0119.6	0.5	12.0		U	
	2840	PEKG	5 S	0348.0	0351.2	7.0	15.1			
410	PALE	4 S/F	0350.0	0351.0	3.0	190.0			QL=4 ST=2 TYP=3	



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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
27	245	PALE	8 S	0350.0	0351.0	2.0	74.0			QL=4 ST=2 TYP=3	
	5730	IRKU	46 C	0405.6	0406.6	13.8	320.0	U			
	2840	PEKG	3 S	0406.0	0408.5	23.0	187.0				
	500	HIRA	4 S/F	0407.0	0408.0	7.0	420.0			0	
	2695	LEAR	4 S/F	0407.0	0408.0	5.0	190.0			QL=4 ST=2 TYP=3	
	4995	LEAR	4 S/F	0407.0	0408.0	3.0	230.0			QL=4 ST=2 TYP=3	
	1415	LEAR	4 S/F	0407.0	0408.0	6.0	190.0			QL=4 ST=2 TYP=3	
	15400	LEAR	8 S	0407.0	0408.0	2.0	430.0			QL=4 ST=2 TYP=3	
	8800	LEAR	8 S	0407.0	0408.0	2.0	430.0			QL=4 ST=2 TYP=3	
	610	PALE	49 GB	0407.0	0408.0	3.0	790.0			QL=4 ST=2 TYP=6	
	1415	PALE	4 S/F	0407.0	0408.0	9.0	200.0			QL=4 ST=2 TYP=3	
	8800	SVTO	8 S	0407.0	0408.0	1.0	290.0			QL=2 ST=2 TYP=3	
	2695	SVTO	4 S/F	0407.0	0408.0	3.0	140.0			QL=2 ST=2 TYP=3	
	4995	SVTO	8 S	0407.0	0408.0	2.0	170.0			QL=2 ST=2 TYP=3	
	15400	SVTO	8 S	0407.0	0408.0	1.0	200.0			QL=2 ST=2 TYP=3	
	1415	SVTO	4 S/F	0407.0	0408.0	4.0	150.0			QL=2 ST=2 TYP=3	
	2800	HIRA	3 S	0407.0	0408.0	18.0	160.0			ML	
	8800	PALE	8 S	0408.0	0408.0	1.0	410.0			QL=4 ST=2 TYP=3	
	2695	PALE	8 S	0408.0	0408.0	1.0	190.0			QL=4 ST=2 TYP=3	
	4995	PALE	8 S	0408.0	0408.0	1.0	240.0			QL=4 ST=2 TYP=3	
	410	PALE	49 GB	0408.0	0408.0	1.0	970.0			QL=4 ST=2 TYP=6	
	15400	PALE	8 S	0408.0	0408.0		110.0	U		QL=4 ST=2 TYP=3	
	200	HIRA	8 S	0435.0	0436.0	1.0	50.0			0	
	245	SVTO	8 S	0435.0	0436.0	1.0	100.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	0436.0	0436.0		220.0	U		QL=4 ST=2 TYP=3	
	2840	PEKG	1 S	0439.0	0441.0	5.0	5.0				
	200	HIRA	8 S	0440.0	0441.0	2.0	40.0			WL	
	245	PALE	8 S	0440.0	0441.0	2.0	94.0			QL=4 ST=2 TYP=3	
	204	IZMI	42 SER	0925.1	0925.2	0.5	97.0				
	204	IZMI	41 F	1109.2	1109.4	0.3	117.0				
	2800	PENT	1 S	1432.0	1436.0	8.0	10.0				
	2800	PENT	1 S	2156.0	2200.0	8.0	4.0				
	245	PALE	8 S	2200.0	2201.0	1.0	130.0			QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2200.0	2200.0	1.0	92.0			QL=4 ST=2 TYP=3	
	2800	PENT	40 F	2335.0	2341.0	12.0	7.0				
	5730	IRKU	4 S/F	2340.8	2342.3	3.6	15.0		U		
	28	280	CUBA	44 NS	1300.0E		530.0D		27.0		
		235	CUBA	44 NS	1300.0E		530.0D		8.0		
		200	HIRA	8 S	0356.0	0356.0	2.0	50.0			0
		5730	IRKU	4 S/F	0413.2	0414.8	16.8	20.0	U		
		204	IZMI	41 F	0726.1	0726.3	2.1	18.0			
		204	IZMI	7 C	0731.9	0732.1	0.3	13.0			
		245	SVTO	8 S	0732.0	0732.0	1.0	76.0			QL=4 ST=2 TYP=3
		204	IZMI	42 SER	0814.4	0831.7	18.5	379.0			
		200	HIRA	8 S	0817.0	0818.0	2.0	40.0			SR
		200	HIRA	8 S	0832.0	0832.0	1.0	110.0			0
		204	IZMI	25 R	0912.0U		76.0D	35.0			
		245	SVTO	8 S	0943.0	0944.0	1.0	53.0			QL=4 ST=2 TYP=3
		245	SVTO	4 S/F	0957.0	0959.0	3.0	66.0			QL=4 ST=2 TYP=3
		204	IZMI	42 SER	0958.2	0959.9	1.8	189.0			
3000		IZMI	7 C	1010.6	1010.8	0.4	13.0	5.0			
245		SGMR	8 S	1303.0	1303.0		51.0	U		QL=4 ST=2 TYP=3	
245		PALE	8 S	1937.0	1937.0	1.0	140.0			QL=4 ST=2 TYP=3	
245		SGMR	8 S	1937.0	1937.0	1.0	200.0			QL=4 ST=2 TYP=3	
29	204	IZMI	43 NS	0600.0		360.0D		5.0			
	127	TORN	43 NS	0700.0		490.0U		3.0		V=2, DISTURBED	
	235	CUBA	44 NS	1300.0E		530.0D		6.0			
	280	CUBA	44 NS	1300.0E		530.0D		16.0			
	200	HIRA	42 SER	0055.0	0108.0	25.0	50.0			0	
	200	HIRA	8 S	0315.0	0316.0	2.0	140.0			WL	
	2840	PEKG	5 S	0710.0	0713.8	6.0	21.1				
	3000	IZMI	45 C	0711.5	0714.0	3.9	40.0	12.0			
	500	HIRA	8 S	0712.0	0713.0	2.0	50.0			0	
	5730	IRKU	4 S/F	0712.0	0714.2	6.4	52.0		U		
	410	SVTO	8 S	1011.0	1011.0		89.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1129.0	1129.0		75.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1129.0	1129.0		140.0			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

JULY 2000

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
29	245	SGMR	8 S	1256.0	1258.0	2.0	51.0			QL=4 ST=2 TYP=3
30	280	CUBA	44 NS	1300.0E		530.0D		18.0		
	235	CUBA	44 NS	1300.0E		530.0D		6.0		
	245	PALE	8 S	0215.0	0216.0	1.0	110.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0215.0	0216.0	1.0	85.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0555.3	0555.6	0.5	29.0			
	204	IZMI	41 F	0707.8	0707.9	0.6	84.0			
	204	IZMI	7 C	0853.9	0854.0	0.2	11.0			
	33	UPIC	45 C	1142.0	1145.0	4.5				
	33	UPIC	46 C	1200.0	1202.5	6.5				
	3000	IZMI	20 GRF	1200.9	1202.4	2.4D	22.0	11.0		
	33	UPIC	42 SER	1214.0	1223.0	18.0				
245	SVTO	8 S	1702.0	1703.0	1.0	74.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1733.0	1734.0	1.0	58.0			QL=4 ST=2 TYP=3	
31	235	CUBA	44 NS	1300.0E		480.0D		7.0		
	280	CUBA	44 NS	1300.0E		480.0D		17.0		
	200	HIRA	8 S	0149.0	0149.0	1.0	90.0		0	
	33	UPIC	46 C	0817.0	0818.0	7.5				

Reports are received routinely from the following observatories:

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

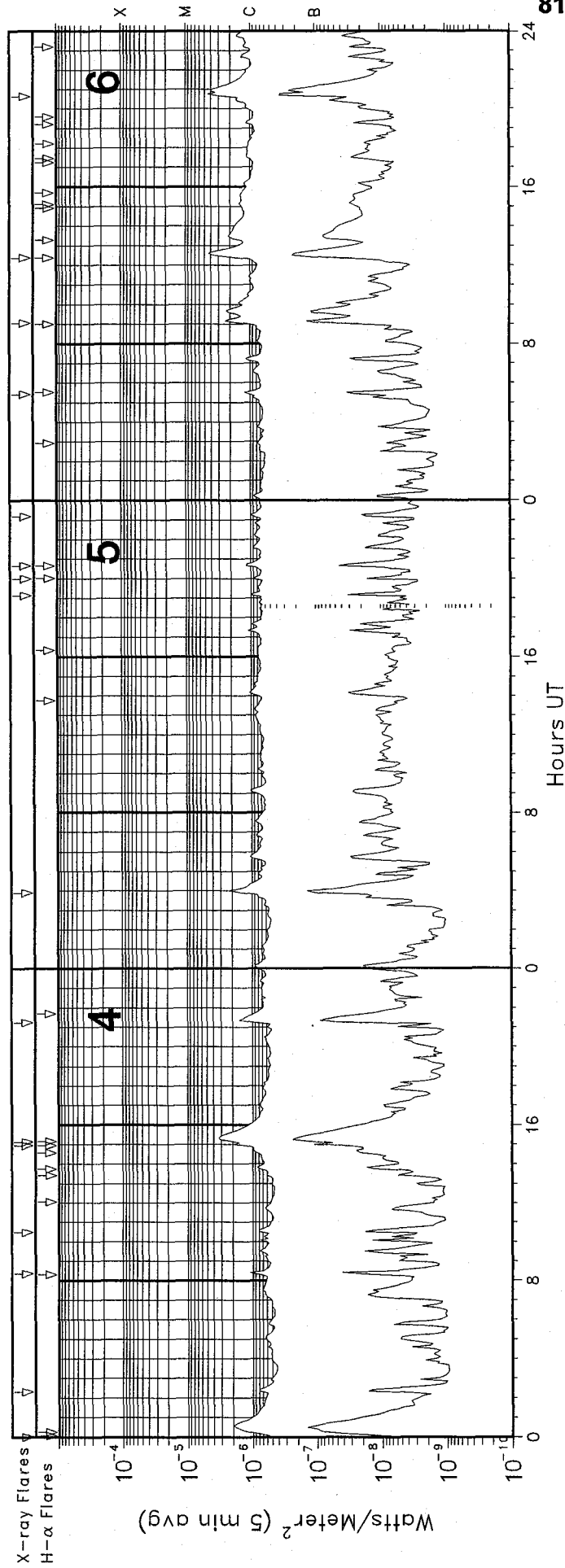
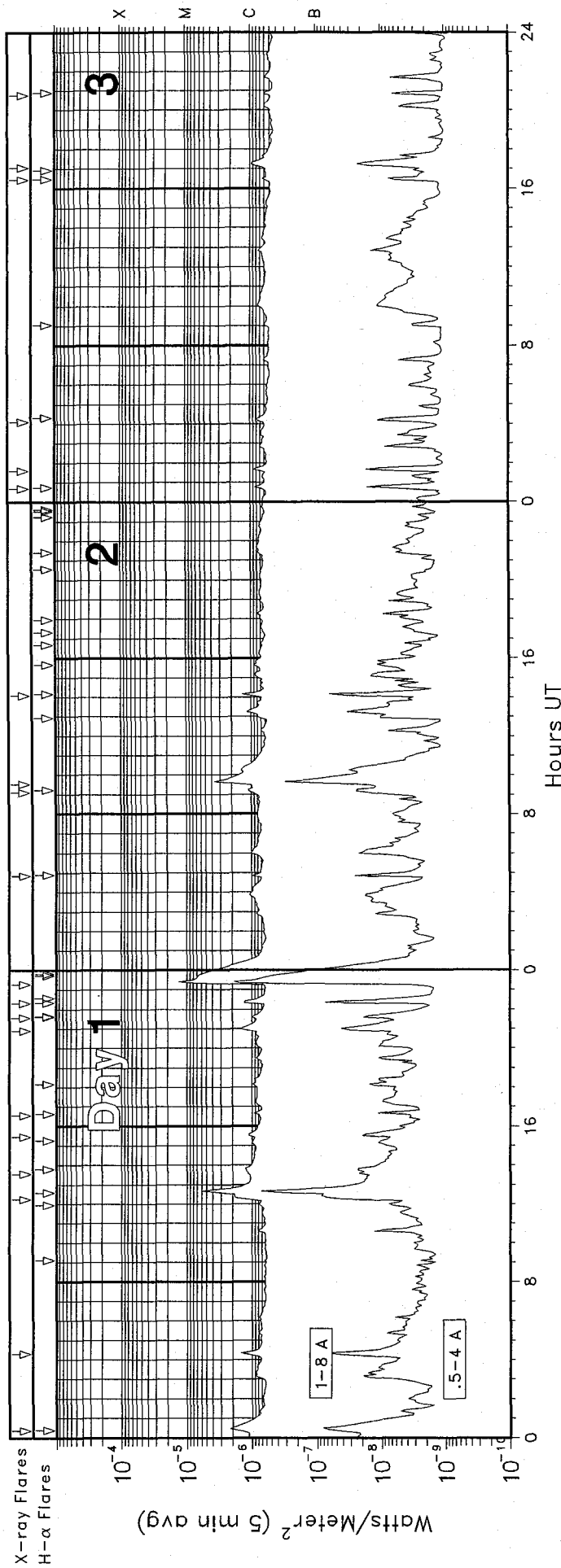
Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

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

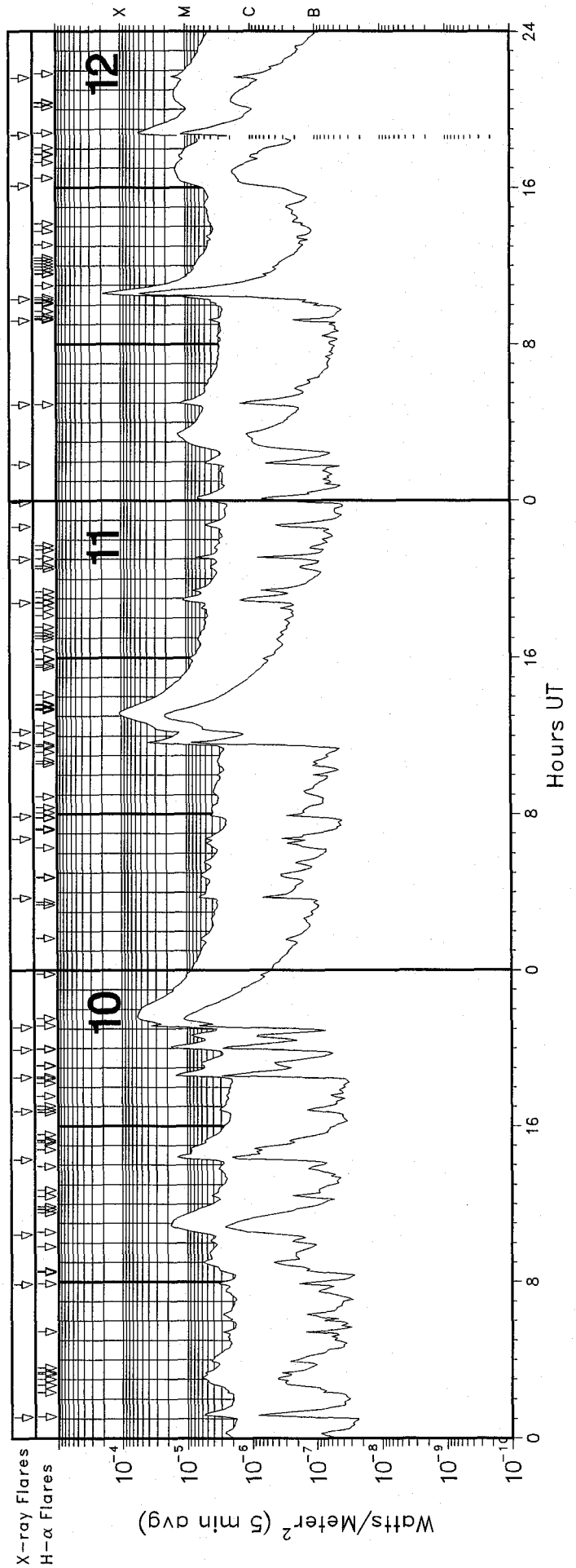
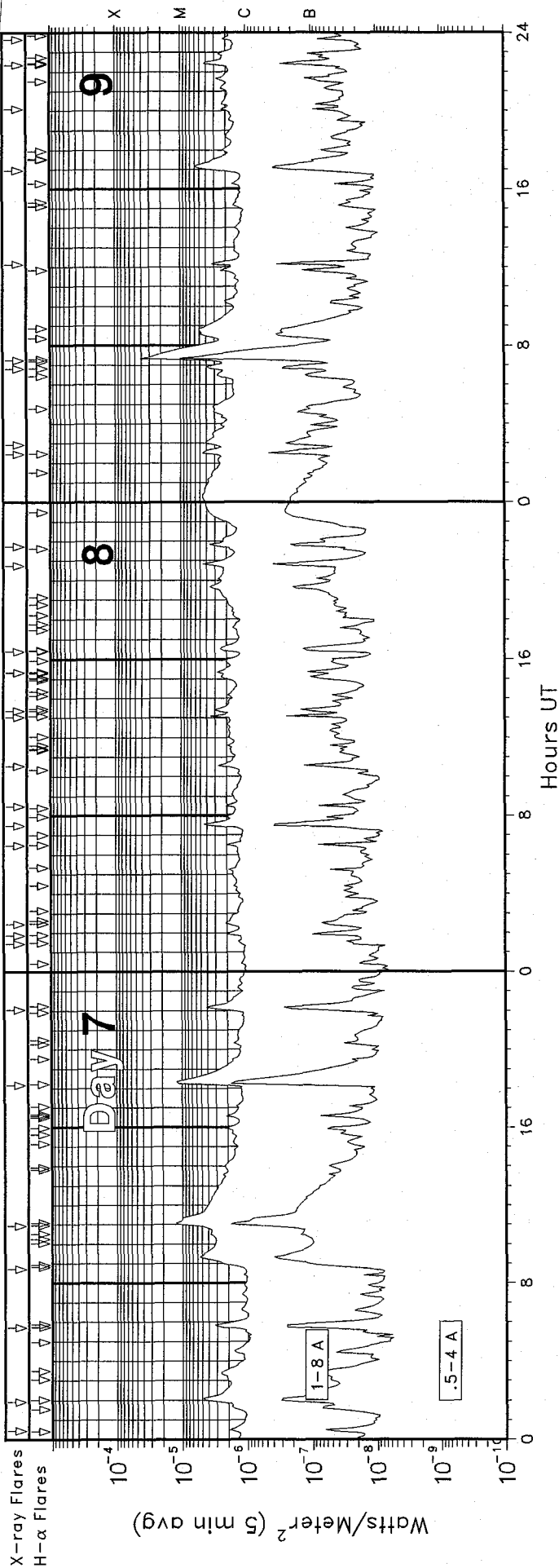
# GOES X-RAY DETECTOR

July 2000



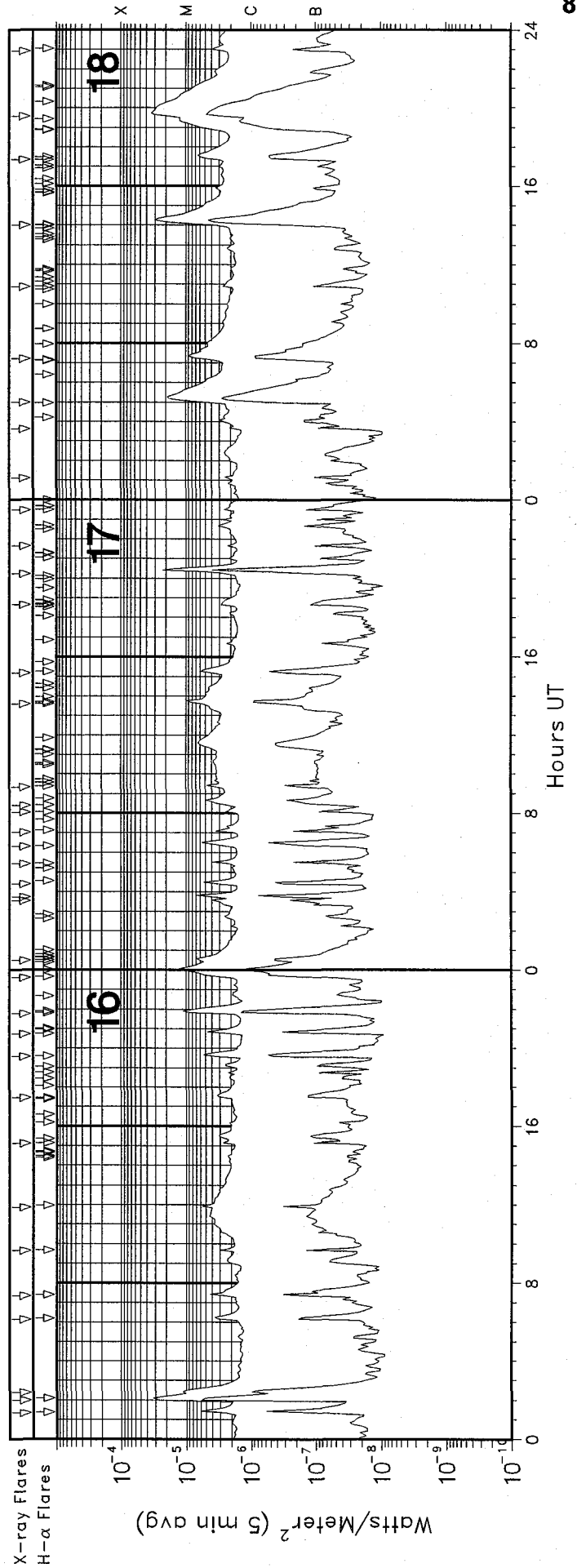
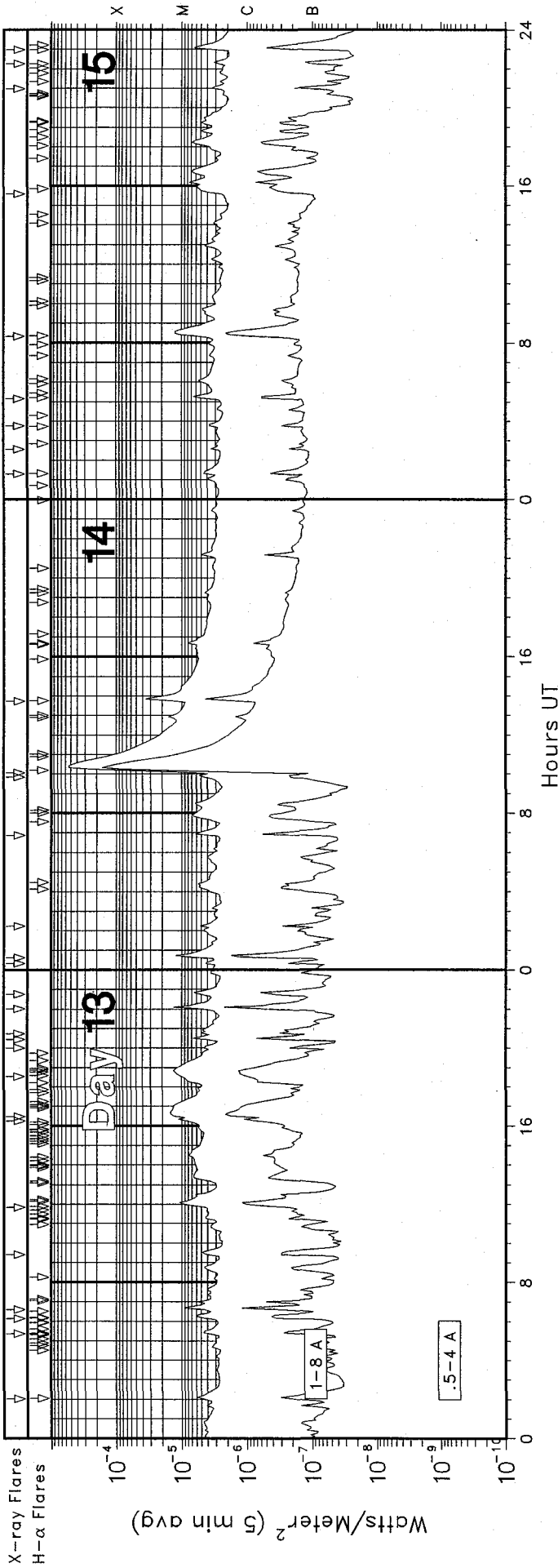
# GOES X-RAY DETECTOR

July 2000



# GOES X-RAY DETECTOR

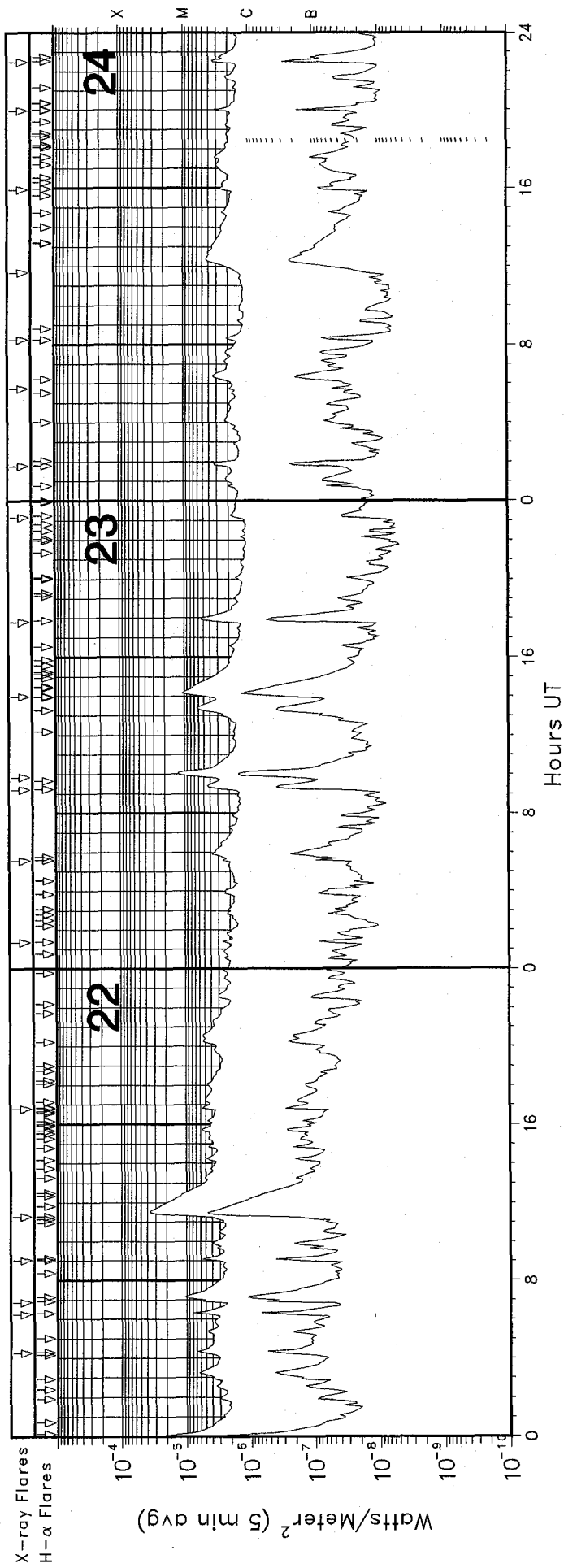
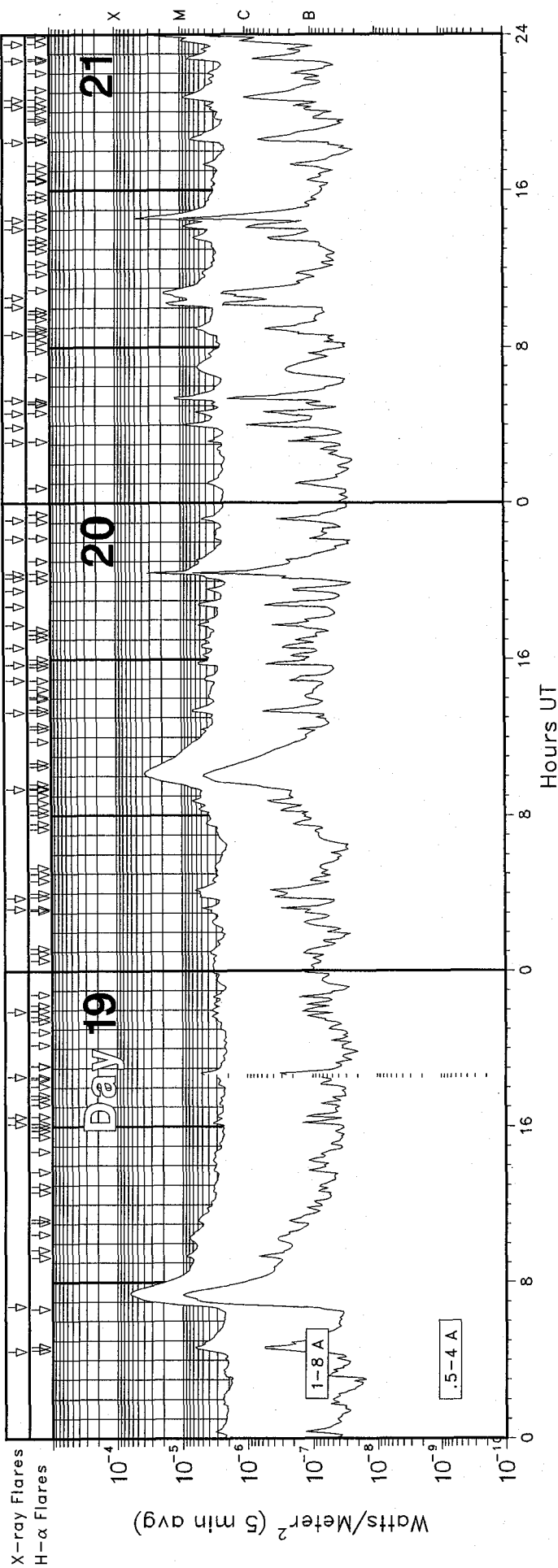
## July 2000



84  
Jul 00

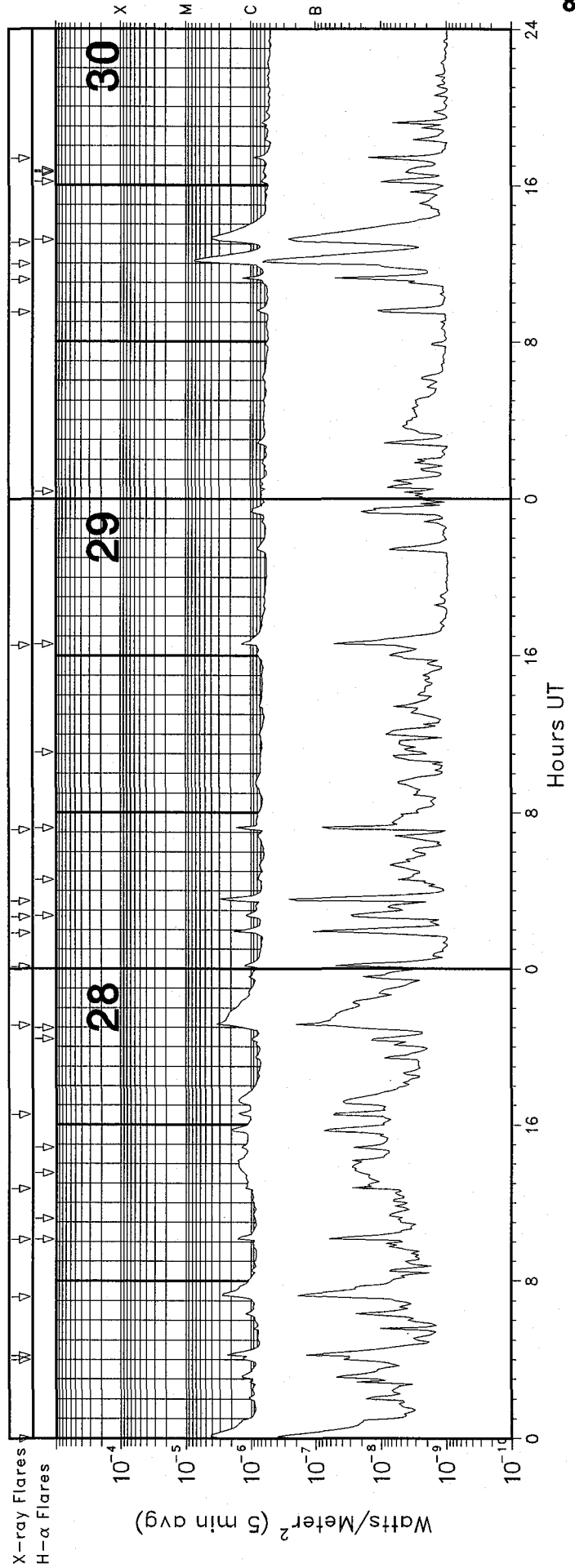
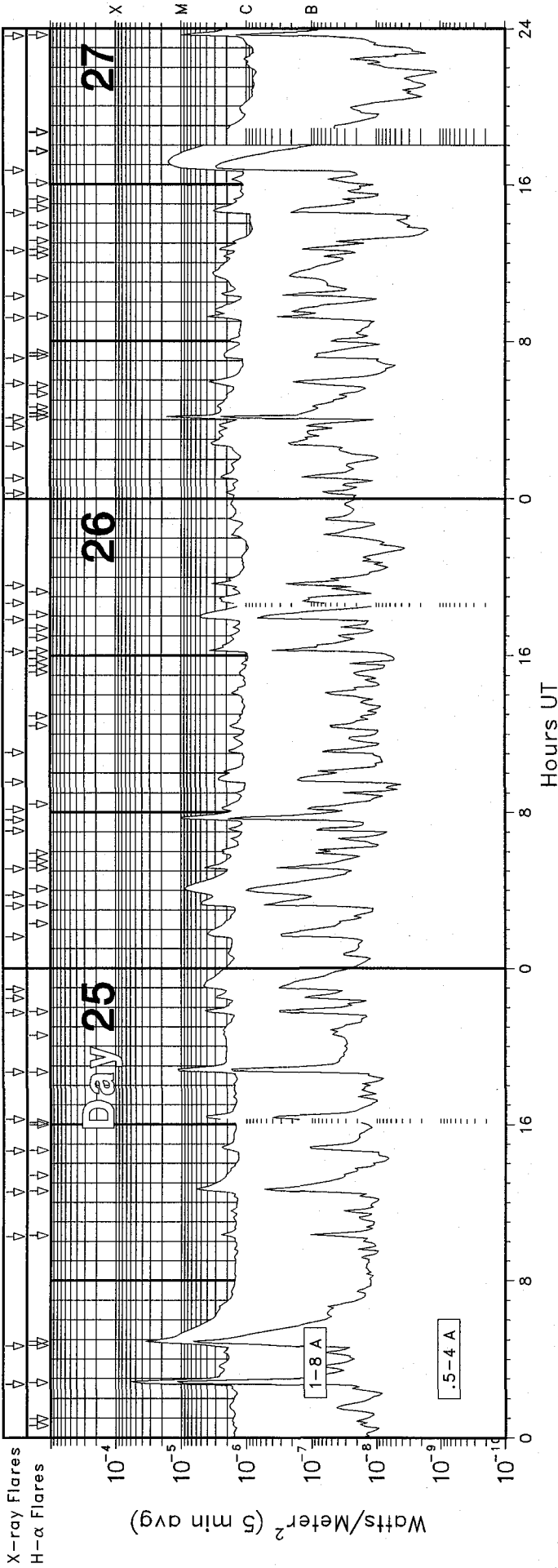
# GOES X-RAY DETECTOR

July 2000



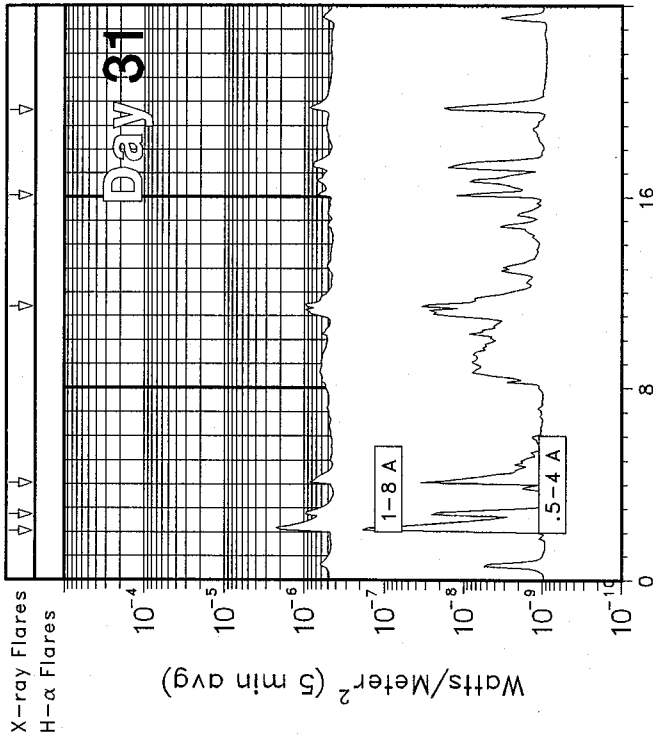
# GOES X-RAY DETECTOR

July 2000



# GOES X-RAY DETECTOR

July 2000





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

July 2000

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region	Flux
01	0021	0031	0038	S19	E65	SF	C2.3	9067	1.9E-03
01	0417	0422	0425				C1.5		6.6E-04
01	1214	1241	1248	N15	W75	SF	C6.0	9054	5.6E-03
01	1333	1339	1345				C1.2		8.3E-04
01	1528	1533	1542				C1.1		9.0E-04
01	1633	1641	1646	S12	E75	SF	B9.5	9069	6.6E-04
01	2054	2100	2110				C1.5		1.3E-03
01	2134	2139	2141	S18	E49	SF	C1.1	9067	4.1E-04
01	2218	2224	2229	S19	E67	SF	C1.5	9068	8.1E-04
01	2317	2325	2333				M1.5		8.3E-03
02	0450	0453	0456	S21	E67	SF	C1.3	9068	3.6E-04
02	0906	0914	0917	S24	E70	SF	C1.3	9068	6.9E-04
02	0932	0942	0949				C3.8		2.6E-03
02	1405	1410	1415				C1.4		7.0E-04
03	0041	0047	0052	N26	W37	SF	B8.6	9063	5.0E-04
03	0136	0142	0148				B8.8		5.8E-04
03	0407	0415	0421				B8.1		6.2E-04
03	1627	1630	1632	S14	W31	SF	B7.2	9062	1.9E-04
03	1704	1720	1727	S13	W44	SF	B9.8	9061	1.1E-03
03	2046	2054	2057	S17	E39	SF	B7.3	9068	3.8E-04
04	0001	0034	0054	S16	W32	1F	C2.0	9062	4.3E-03
04	0218	0225	0227				B9.3		4.3E-04
04	0822	0826	0828	S20	E35	SF	C1.3	9068	3.9E-04
04	1028	1032	1043				B8.2		6.9E-04
04	1457	1501	1504	S22	E31	SF	C2.3	9068	7.4E-04
04	1508	1520	1534	N17	E49	SF	C3.4	9070	4.4E-03
04	2114	2120	2133				C1.9		1.5E-03
05	0354	0401	0408				C2.3		1.5E-03
05	1909	1913	1917				C1.1		4.8E-04
05	2000	2004	2007	N24	W19	SF	C1.0	9071	3.9E-04
05	2040	2043	2047	N20	E32	SF	C1.3	9070	5.0E-04
05	2310	2314	2322				C1.0		6.9E-04
06	0525	0529	0537				C1.1		7.9E-04
06	0903	0913	0920	S20	E07	SF	C2.4	9068	2.0E-03
06	1223	1236	1249	N18	E25	SF	C4.3	9070	5.1E-03
06	2038	2045	2108				C4.7		6.6E-03
06	2038	2045	2108				C4.8		6.7E-03
07	0026	0030	0035	N20	E17	SF	C2.0	9070	9.9E-04
07	0155	0205	0213	N18	E15	SF	C5.0	9070	4.3E-03
07	0542	0552	0558	N22	W39	SF	C3.3	9071	2.5E-03
07	0842	0921	1011	N17	E10	SF	C5.6	9070	1.7E-02
07	1056	1105	1127	N23	W41	SN	M1.3	9071	1.9E-02
07	1810	1819	1833	N21	W47	1B	M1.3	9071	1.2E-02
07	2202	2213	2219	N21	W51	SF	C4.1	9071	3.3E-03
08	0126	0129	0132	N18	E00	SF	C1.4	9070	4.5E-04
08	0152	0157	0206	N18	E00	SF	C2.1	9070	1.5E-03
08	0227	0230	0235	N18	E00	SF	C2.2	9070	9.7E-04
08	0628	0631	0635	S23	E16	SF	C2.1	9073	8.0E-04
08	0729	0734	0739	N17	W07	1N	C6.1	9070	2.4E-03
08	0829	0832	0835	S22	E14	SF	C2.3	9073	7.3E-04
08	1032	1036	1039				C3.0		1.1E-03
08	1302	1308	1310	S22	E12	SN	C4.5	9073	1.4E-03
08	1321	1326	1332	N17	W08	1F	C3.1	9070	1.9E-03
08	1518	1521	1525	S17	W06	SF	C2.9	9069	1.1E-03
08	1623	1631	1644	N17	W09	SF	C2.4	9070	2.7E-03
08	2045	2052	2057				C4.6		2.7E-03
08	2144	2150	2155				C4.0		2.1E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region	Flux
09	0226	0233	0243	N15	E74	SF	C5.0	9077	4.1E-03
09	0255	0304	0318				C4.2		5.1E-03
09	0648	0654	0702	N16	E69	SF	C4.2	9077	3.0E-03
09	0715	0723	0726	N16	E72	1N	M5.7	9077	1.7E-02
09	1209	1213	1216	N16	E67	SF	C4.4	9077	1.4E-03
09	1657	1711	1724				C6.0		7.6E-03
09	2005	2008	2010				C2.6		7.1E-04
09	2221	2228	2235	N19	E63	SN	C4.6	9077	3.2E-03
09	2339	2342	2346				C2.4		9.1E-04
10	0105	0113	0124	N17	E58	SN	C6.0	9077	5.2E-03
10	0753	0757	0802	N18	W30	SF	C3.5	9070	1.7E-03
10	1026	1056	1143	N18	E53	SF	M1.1	9077	5.7E-02
10	1416	1426	1437	N18	E52	1N	M1.4	9077	1.3E-02
10	1646	1651	1702				C3.2	9066	2.9E-03
10	1830	1838	1848	S18	W32	1N	M1.8	9069	1.2E-02
10	1955	2005	2013	N16	W43	SB	M1.9	9070	1.4E-02
10	2105	2142	2227	N18	E49	2B	M5.7	9077	2.2E-01
11	0343	0348	0355				C7.6	9070	4.3E-03
11	0644	0647	0651	N18	E45	SF	C5.7	9077	2.1E-03
11	0753	0757	0829	N19	W41	SF	C4.7	9070	8.7E-03
11	1132	1141	1152				M4.2	9077	2.9E-02
11	1212	1310	1335				X1.0	9077	3.1E-01
11	1847	1858	1908				M1.1	9070	1.2E-02
11	2101	2106	2111	N17	W57	SF	C7.3	9070	3.3E-03
11	2240	2244	2252				C5.5		3.4E-03
11	2354	0009	0020				C6.8		8.1E-03
12	0151	0158	0211				C5.3		5.3E-03
12	0455	0502	0509	N16	E31	1N	M1.2	9077	8.8E-03
12	0911	0915	0917	N17	E30	SF	C5.3	9077	1.5E-03
12	1018	1037	1046	N17	E27	2B	X1.9	9077	1.4E-01
12	1606	1652	1806				M1.0		8.6E-02
12	1841	1849	1907	N16	W64	2F	M5.7	9070	6.3E-02
12	2137	2140	2143				M1.9		5.7E-03
13	0201	0206	0211				C6.1		3.2E-03
13	0522	0525	0534	S17	W76	SF	C4.9	9069	3.2E-03
13	0609	0620	0623	N12	E65	SF	C7.1	9085	4.5E-03
13	0636	0641	0648	N19	W66	SF	C9.8	9070	5.4E-03
13	0925	0930	0933				C6.0		2.3E-03
13	1151	1205	1212	N20	W73	SF	M1.3	9070	1.0E-02
13	1615	1623	1627	N13	E65	1N	M1.1	9085	7.2E-03
13	1628	1634	1711	N19	W75	1F	M1.5	9070	3.6E-02
13	1832	1842	1904				M1.2	9077	2.3E-02
13	2001	2004	2006				C5.5		1.5E-03
13	2026	2031	2036				C7.3		3.4E-03
13	2044	2048	2052				C5.6		2.3E-03
13	2201	2206	2210				M1.5		5.5E-03
13	2246	2251	2255				C6.7		3.2E-03
14	0020	0023	0026				C4.9		1.6E-03
14	0039	0045	0050				M1.5		6.7E-03
14	0214	0217	0220				C6.1		1.8E-03
14	0652	0657	0705				C7.1		4.1E-03
14	0951	0955	0959				C5.9		2.5E-03
14	1003	1024	1043	N22	W07	3B	X5.7	9077	7.5E-01
14	1344	1352	1400	N20	W08	1N	M3.7	9077	2.5E-02
15	0118	0123	0130	N14	E45	SF	C5.0	9085	3.1E-03
15	0233	0236	0240				C3.7		1.4E-03
15	0345	0348	0353	N17	W11	SF	C4.2	9077	1.8E-03
15	0509	0515	0523	N18	W13	SF	C6.9	9077	4.7E-03

July 2000

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF	
								Region	Flux
15	0820	0833	0848	S10	E62	SF	M1.3	9077	1.8E-02
15	1536	1611	1624				C7.8		1.5E-02
15	2059	2103	2107	N16	E35	SF	C3.7	9085	1.6E-03
15	2215	2220	2227	S08	E55	SF	C3.2	9087	2.1E-03
15	2258	2308	2317	S14	E60	SF	C7.1	9087	5.6E-03
16	0120	0127	0132	S11	E53	1N	C6.3	9087	3.3E-03
16	0159	0203	0208	N09	E81	1N	M5.5	9090	1.6E-02
16	0223	0228	0233				M1.1		6.5E-03
16	0608	0614	0622	S08	W25	SF	C3.8	9082	2.7E-03
16	0720	0726	0731				C4.5		2.2E-03
16	0938	0942	0946	S09	E53	SF	C3.2	9087	1.3E-03
16	1152	1156	1200	S12	E53	SF	C6.2	9087	2.5E-03
16	1508	1513	1516	S13	E51	SF	C2.9	9087	1.2E-03
16	1728	1734	1745	N18	W29	SF	C3.4	9077	3.1E-03
16	1934	1939	1948	S13	E48	1N	C6.5	9087	3.7E-03
16	2044	2052	2057	S04	E68	1N	C4.9	9091	2.7E-03
16	2147	2157	2204	N14	E76	1N	M1.1	9090	8.6E-03
16	2337	0004	0015	N17	W38	2F	M1.4	9077	1.7E-02
17	0031	0034	0038	N19	E03	SF	C8.1	9088	2.9E-03
17	0333	0337	0339				C4.3		1.4E-03
17	0344	0348	0350				C6.7		1.4E-03
17	0424	0430	0435	N18	W32	SF	C6.2	9077	2.8E-03
17	0526	0532	0535	N13	E73	SN	C4.3	9090	1.8E-03
17	0619	0631	0638	N18	W40	SF	C6.1	9077	4.7E-03
17	0702	0709	0712	S08	E36	SF	C3.9	9087	1.8E-03
17	0804	0807	0812				C2.5		1.1E-03
17	0824	0842	0848	S10	E36	1F	C5.3	9087	5.4E-03
17	0921	0925	0928	N15	E71	SF	C6.2	9090	1.9E-03
17	1335	1345	1348	S08	E31	1F	M1.2	9087	6.5E-03
17	1511	1517	1525	N18	W43	SF	C5.9	9077	4.3E-03
17	1840	1843	1846	S09	E56	SN	C3.7	9091	1.1E-03
17	2014	2027	2032	S11	E36	1N	M2.4	9087	1.2E-02
17	2139	2142	2144				C2.6		6.8E-04
17	2328	2331	2333	S12	E30	SF	C2.9	9087	7.5E-04
18	0106	0110	0113				C2.8		1.0E-03
18	0337	0341	0347				C2.2		1.1E-03
18	0459	0515	0538	N17	W58	2B	M1.9	9077	3.2E-02
18	0713	0723	0732				C9.3	9087	8.9E-03
18	1053	1057	1108	N05	E79	SF	C2.8	9097	2.2E-03
18	1400	1419	1431	S14	E15	2N	M3.0	9087	3.5E-02
18	1722	1736	1747	S13	E12	SF	C6.4	9087	8.0E-03
18	1934	1945	2014				M3.3	9077	6.7E-02
18	2256	2300	2311	N17	W63	SF	C4.1	9077	3.1E-03
19	0427	0441	0449	S19	E13	SF	C6.7	9087	7.1E-03
19	0645	0726	0750	S21	E12	3N	M6.4	9087	1.6E-01
19	1607	1611	1621	N19	W69	SF	C3.4	9077	2.6E-03
19	1630	1633	1638	S12	E03	SF	C3.5	9087	1.5E-03
19	1834	1846	1850	N07	E68	1F	C5.8	9097	4.5E-03
19	2155	2158	2208	N07	E65	SF	C3.6	9097	2.6E-03
20	0313	0316	0319	N05	E61	SF	C5.5	9097	1.7E-03
20	0346	0412	0421				C6.5	9097	1.1E-02
20	0921	1006	1039	S12	W08	1F	M3.6	9087	1.1E-01
20	1316	1323	1333	S13	W08	SN	C7.0	9087	6.1E-03
20	1454	1457	1504	N11	E19	SF	C5.1	9090	2.6E-03
20	1543	1549	1553	S11	W10	SN	C7.0	9087	3.1E-03
20	1636	1639	1641	N11	E18	SF	C5.7	9090	1.5E-03
20	1744	1748	1751				C5.7		2.2E-03
20	1843	1847	1858				C5.7	9090	4.4E-03
20	1930	1935	1939				C4.5		2.0E-03

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF	
								Region	Flux
20	2009	2015	2017	N12	E16	SF	C6.1	9090	2.1E-03
20	2022	2025	2028	S15	W11	1B	M5.0	9087	1.0E-02
20	2210	2214	2217	S16	W11	SF	C3.5	9087	1.3E-03
20	2307	2312	2319				C4.9		3.1E-03
21	0307	0312	0316	S12	W17	SF	C4.0	9087	1.8E-03
21	0354	0402	0408				C9.7		5.9E-03
21	0437	0441	0445	S11	W15	SF	C6.0	9087	2.6E-03
21	0517	0524	0529				M1.7	9090	7.7E-03
21	0839	0859	0908	S11	W20	SF	C6.3	9087	8.0E-03
21	1005	1015	1022	N12	E13	1N	M1.9	9090	1.2E-02
21	1033	1050	1056	S13	W18	SF	M1.9	9087	2.0E-02
21	1403	1409	1421	S11	W22	SF	C9.5	9087	8.2E-03
21	1430	1437	1443				M5.5	9090	2.5E-02
21	1828	1837	1851	N01	E44	SF	C6.9	9097	7.8E-03
21	2017	2021	2023	N13	E10	SF	C4.3	9090	1.4E-03
21	2038	2047	2059	N13	E09	1F	C9.0	9090	9.5E-03
21	2240	2248	2258	N12	W50	1F	C8.5	9085	6.8E-03
21	2331	0001	0006	N21	W61	SF	M3.3	9088	2.7E-02
22	0416	0422	0426	N22	W47	SF	C7.2	9095	3.7E-03
22	0615	0621	0626	N13	W04	SN	C8.4	9090	4.0E-03
22	0652	0711	0724	N12	W05	1F	M1.0	9090	1.4E-02
22	0901	0907	0913	N06	E33	SF	C6.0	9097	3.5E-03
22	1117	1134	1202	N14	W56	2N	M3.7	9085	7.0E-02
22	1648	1653	1658	N23	W55	SF	C6.3	9095	3.2E-03
23	0122	0125	0129	S10	W42	SF	C2.8	9087	1.1E-03
23	0534	0537	0541	S12	W44	SF	C2.8	9087	1.1E-03
23	0913	0926	0942	S14	W45	SF	C4.5	9087	6.3E-03
23	0951	1000	1013	S13	W47	1N	M1.5	9087	1.3E-02
23	1359	1413	1433	S14	W46	1N	M1.1	9087	1.7E-02
23	1748	1801	1809	N14	W56	2N	M3.0	9087	5.4E-03
23	2309	2315	2331	N14	W76	SF	C1.9	9085	2.3E-03
24	0147	0151	0202	N06	E04	1F	C3.6	9097	2.8E-03
24	0545	0548	0550				C2.2		5.9E-04
24	0815	0819	0826	N12	W30	SF	C2.2	9090	1.3E-03
24	1141	1225	1317				C4.4		1.8E-02
24	1555	1600	1621	S31	E45	SF	C2.8	9100	3.8E-03
24	1957	2002	2005	N13	W39	SF	C3.8	9090	1.4E-03
24	2228	2234	2237	S17	W63	SF	C5.2	9087	1.8E-03
25	0243	0249	0254	N06	W08	2B	M8.0	9097	2.8E-02
25	0440	0456	0504	S13	W71	2N	M3.7	9087	2.5E-02
25	1016	1021	1028	N06	W12	SF	C2.5	9097	1.6E-03
25	1233	1241	1251	N15	W46	SN	C6.2	9090	4.9E-03
25	1439	1451	1502	N04	W13	SF	C2.4	9097	2.8E-03
25	1616	1626	1630	N05	W14	SF	C4.5	9097	3.2E-03
25	1841	1846	1857	N05	W16	1B	M1.2	9097	8.5E-03
25	2143	2149	2157	N13	W52	SF	C4.4	9090	3.1E-03
25	2228	2232	2240				C3.0		2.0E-03
25	2256	2307	2334				C4.4		9.0E-03
26	0137	0147	0207				C3.9		6.0E-03
26	0312	0317	0342	S13	W89	SF	C5.0	9087	7.5E-03
26	0347	0407	0424	N11	W52	SF	C8.9	9090	1.5E-02
26	0507	0512	0519	N13	W48	SN	C4.6	9090	2.6E-03
26	0704	0709	0715				C2.0		1.1E-03
26	0737	0743	0750				M1.3		6.4E-03
26	0809	0814	0819	S11	W89	SF	C2.6	9087	1.4E-03
26	0933	0948	1000				C2.7		3.7E-03
26	1103	1108	1116				C2.0		1.3E-03
26	1612	1617	1622	N15	W59	SF	C4.4	9090	1.7E-03

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

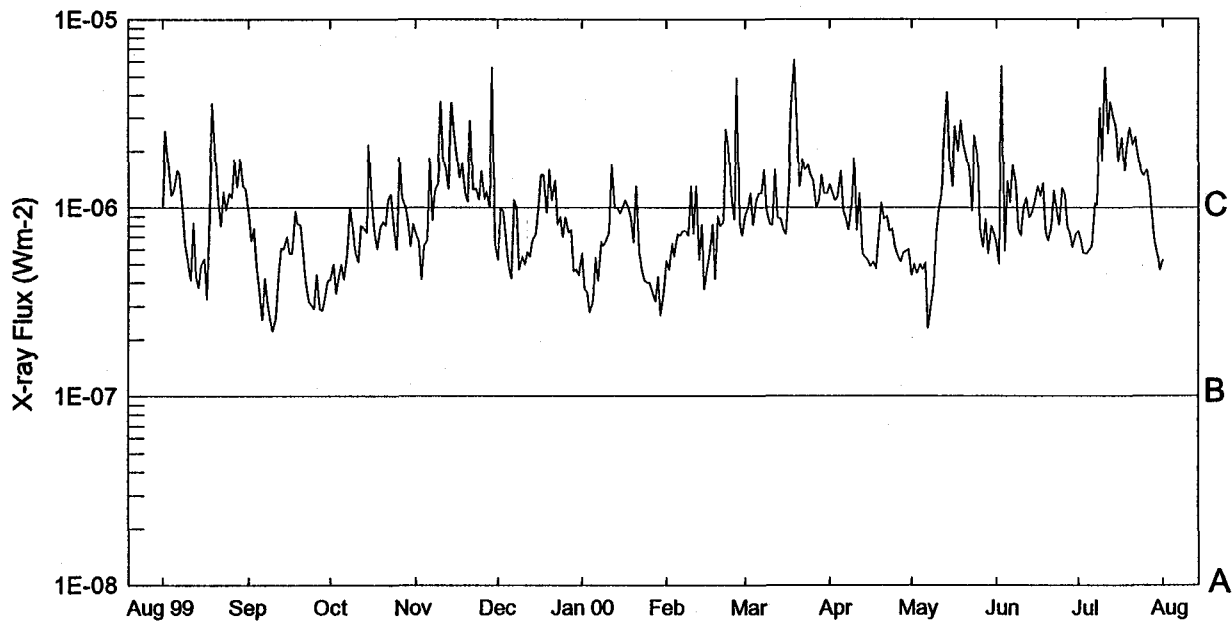
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July 2000

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
26	1750	1759	1815	N08	W25	SF	C5.4	9097	6.1E-03
26	1841	1856	1904				C2.6		3.1E-03
26	1935	1940	1946				C3.6		1.8E-03
27	0016	0020	0024				C2.3		1.0E-03
27	0103	0107	0116				C2.6		1.8E-03
27	0241	0248	0300				C3.5		3.4E-03
27	0340	0344	0348				C2.9		1.3E-03
27	0406	0410	0413	N10	W72	SB	M2.4	9090	6.1E-03
27	0550	0556	0601	N12	W66	SF	C3.9	9090	2.2E-03
27	0708	0713	0736	N07	W34	SF	C2.3	9097	3.4E-03
27	0911	0917	0922	N13	W64	SF	C4.1	9090	2.1E-03
27	1017	1026	1033				C2.4		2.0E-03
27	1237	1244	1251	N16	W73	SF	C2.7	9090	2.0E-03
27	1432	1440	1453	N14	W80	SF	C3.7	9090	3.3E-03
27	1643	1711	1745				M1.5		4.4E-02
27	2337	2342	2347	N11	W78	SF	M1.2	9090	4.4E-03
28	0000	0008	0019				C4.2		4.3E-03
28	0400	0404	0410				C1.4		7.7E-04
28	0412	0417	0422				C2.3		1.2E-03
28	0711	0720	0730				C2.8		2.6E-03
28	1008	1013	1018				C1.9		8.9E-04

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/USAF Region	Flux
28	1243	1246	1251				C1.3		5.5E-04
28	1631	1635	1639				C1.7		7.3E-04
28	2107	2112	2118	N19	E65	SF	C3.5	9105	1.9E-03
29	0008	0013	0017				C1.3		6.4E-04
29	0151	0156	0201				C1.9		8.7E-04
29	0240	0244	0250	S22	E84	SF	C1.2	9107	6.8E-04
29	0329	0337	0341				C3.4		1.8E-03
29	0709	0715	0718	S29	W23	SF	C2.3	9100	7.8E-04
29	1632	1638	1644	N10	W05	SF	C1.4	9103	8.7E-04
30	0930	0934	0942				B8.3		5.4E-04
30	1111	1115	1119				C1.5		5.3E-04
30	1159	1210	1222				C7.8		7.6E-03
30	1304	1318	1333	N15	E53	SF	C4.2	9105	5.4E-03
30	1722	1725	1729				B9.5		3.5E-04
31	0203	0209	0215				C3.1		1.4E-03
31	0244	0248	0255				C1.0		6.2E-04
31	0403	0407	0417				B9.7		6.4E-04
31	1125	1129	1132				C1.2		4.3E-04
31	1604	1608	1612				B7.6		3.2E-04
31	1940	1945	1953				B8.9		6.3E-04

# Preliminary GOES Satellite Daily X-Ray Background Aug 1999 - Jul 2000



Day	Aug 99	Sep	Oct	Nov	Dec	Jan 00	Feb	Mar	Apr	May	Jun	Jul
1	C1.0	B9.3	B4.1	B7.3	B5.3	B5.7	B5.2	B9.2	C1.3	B4.4	B6.4	B7.4
2	C2.5	B6.6	B4.9	B6.5	C1.0	B3.7	B4.7	B9.9	C1.2	B5.0	B5.0	B6.7
3	C1.6	B7.7	B3.4	B4.1	B9.6	B3.6	B6.4	C1.2	C1.0	B4.5	C5.6	B5.7
4	C1.1	B4.9	B4.2	B6.3	B7.1	B2.8	B5.5	B8.1	C1.1	B5.0	B5.9	B5.7
5	C1.2	B3.7	B4.9	B6.7	B5.1	B3.2	B7.2	C1.1	C1.5	B4.7	C1.3	B5.9
6	C1.5	B2.5	B4.1	C1.8	B4.2	B5.4	B7.1	C1.2	B9.6	B5.1	C1.0	B6.2
7	C1.5	B4.1	B5.7	B8.5	C1.1	B4.1	B7.5	C1.2	B8.7	B2.3	C1.6	C1.0
8	C1.0	B3.1	C1.0	C1.2	C1.0	B6.6	B7.5	C1.6	B7.6	B2.9	C1.3	C1.0
9	B6.4	B2.5	B7.9	C1.3	B4.7	B6.3	B7.1	B9.7	C1.0	B3.9	B7.7	C3.3
10	B5.3	B2.2	B5.8	C3.6	B5.5	B6.8	C1.3	B8.2	C1.8	B7.4	B7.1	C1.7
11	B4.1	B2.6	B5.1	C1.8	B5.0	B7.4	B7.3	B8.1	B7.6	C1.0	C1.0	C5.5
12	B8.2	B4.3	B7.9	C1.6	B5.8	C1.7	C1.3	C1.6	C1.1	C1.2	C1.1	C2.4
13	B4.3	B6.0	B7.8	C1.2	B5.5	B9.9	B5.3	B8.9	B5.6	C2.6	B8.8	C3.6
14	B3.7	B6.0	B7.3	C3.6	B6.8	C1.0	B8.1	B8.7	B5.4	C4.1	B9.4	C2.9
15	B4.9	B6.9	C2.1	C2.5	B7.2	B9.3	B3.7	B7.7	B5.3	C1.8	C1.0	C2.6
16	B5.3	B5.7	C1.0	C1.9	C1.0	C1.0	B4.6	B7.2	B4.8	C1.3	C1.2	C1.7
17	B3.2	B5.7	B7.3	C1.4	C1.5	C1.1	B5.9	C1.4	B5.1	C2.7	C1.1	C2.3
18	B9.1	B9.5	B6.0	C1.7	C1.5	C1.0	B8.1	C3.4	B4.7	C2.0	C1.3	C1.5
19	C3.5	B8.2	B7.9	C1.1	B9.4	B8.8	B4.2	C6.1	B7.2	C2.9	B7.4	C2.1
20	C1.8	B8.0	B8.4	C1.0	C1.6	B6.5	B9.0	C2.9	C1.0	C2.2	B6.7	C2.6
21	C1.0	B5.7	B8.0	C2.8	C1.1	C1.3	B8.0	C1.3	B8.7	C1.9	B7.9	C2.1
22	B7.9	B4.0	C1.1	C1.2	C1.4	B5.8	B8.4	C1.8	B8.9	C1.6	C1.2	C2.3
23	C1.2	B3.1	C1.1	C1.2	B8.2	B4.7	C2.6	C1.6	B7.4	B9.6	B9.9	C1.8
24	B9.6	B3.0	B7.5	C1.1	B8.9	B4.1	C2.1	C1.7	B7.6	C2.4	B8.1	C1.5
25	C1.1	B2.9	B5.9	C1.5	B7.0	B4.0	C1.1	C1.5	B6.2	C1.9	C1.2	C1.4
26	C1.1	B4.4	C1.8	C1.1	B8.9	B4.0	B8.7	C1.4	B5.5	B7.9	C1.1	C1.5
27	C1.7	B2.8	C1.1	C1.2	B7.4	B3.5	C4.9	C1.0	B5.1	B6.2	B7.9	C1.3
28	C1.2	B2.8	C1.0	B9.9	B7.6	B3.2	B8.4	C1.1	B5.7	B8.7	B7.3	B9.2
29	C1.8	B3.3	B8.4	C5.5	B4.6	B4.3		C1.5	B5.8	B5.7	B6.2	B6.6
30	C1.3	B4.0	B6.2	B6.5	B4.7	B2.7		C1.2	B6.0	B8.0	B8.0	B5.5
31	C1.2		B8.1		B4.4	B3.6		C1.2		B7.3		B4.6

## ACTIVE PROMINENCES AND FILAMENTS

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JULY 2000

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
01	APR	1010E	1301	N07	E90	07	8.2	2	6			P	WROC		
01	APR	1010E	1301D	S23	E90	07	8.3	1	10			P	WROC		
01	BSL	1042E	1102D	N17	E90	07	8.3	1	8			P	WROC		
01	BSL	1108E	1130	N18	E90	07	8.3	2	14			P	WROC		
04	DSF	2013U	1112U	S22	E18	07	6.2		13	0	0	E	RAMY	9068	
06	DSF	1950U	1059U	N00	E02	07	7.0		16	0	0	E	RAMY		
06	DSF	1950U	1059U	S20	E38	07	9.7		16	0	0	E	RAMY		
07	DSF	0103U	1059U	N00	E00	07	7.0	3	13	0	0	E	HOLL		
07	DSF	0548	0710	N15	W03	07	7.0	2	17	0	0	E	LEAR		
07	DSF	0548	0710	N15	W03	07	7.0	2	27	0	0	E	LEAR		
07	DSF	0548U	0730U	S09	E05	07	7.6	2	26	0	0	E	SVTO		
10	DSF	0914U	0327U	N90	E48	07	14.9	2	34	0	0	E	LEAR		
11	DSF	0039U	1321U	N10	W51	07	7.2	3	10	0	0	E	HOLL		
11	DSF	0039U	1321U	N37	W03	07	10.8	3	18	0	0	E	HOLL		
11	DSF	0039U	1321U	S30	W02	07	10.9	3	06	0	0	E	HOLL		
12	BSL	1110E	1146	N19	E90	07	19.3	1	03	9	9	V	KHAR		
13	APR	0946E	1002D	N15	W90	07	6.6	1	3			P	WROC		
15	ADF	0915E	1135D	S05	E70	07	20.7	1	05	9	9	V	KHAR		
15	APR	1000U	1010	S23	W90	07	8.6	1	04	9	9	V	KHAR		
15	APR	1025	1042	S18	W90	07	8.6	1	07	9	9	V	KHAR		
15	APR	1035	1102	S23	W90	07	8.6	1	03	9	9	V	KHAR		
15	APR	1118	1135D	S23	W90	07	8.7	1	04	9	9	V	KHAR		
15	ADF	1126	1135D	N21	E03	07	15.7	1	03	9	9	V	KHAR		
15	DSF	2051U	1152U	N22	W52	07	11.9		06	0	0	E	RAMY		
15	DSF	2051U	1152U	S22	E27	07	17.9		15	0	0	E	RAMY		
15	BSL	2316	2340D	S11	E90	07	22.7			9	9	E	HOLL	9087	Flare Associated
16	DSF	0006U	1152U	N15	W51	07	12.1	3	16	0	0	E	HOLL		
16	DSF	0006U	1152U	S34	E35	07	18.8	3	16	0	0	E	HOLL		
16	DSF	2112U	1946U	N01	E36	07	19.6		14	0	0	E	RAMY		
17	DSD	0835E	0910D	S11	E38	07	20.2	2	11	9	9	V	KHAR		
17	ADF	0840U	0900	S12	E52	07	21.3	1	12	9	9	V	KHAR		
17	DSD	0850U	0858	S13	W39	07	14.4	1	02	9	9	V	KHAR		
17	DSD	1032	1150D	S07	E38	07	20.3	1	03	9	9	V	KHAR		
17	DSD	1105	1143	S10	E37	07	20.3	1	02	9	9	V	KHAR		
18	DSD	0935U	1000D	S06	E29	07	20.6	1	02	9	9	V	KHAR		
18	BSL	1100E	1120D	S11	E90	07	25.3	1	02	9	9	V	KHAR		
18	BSL	1140E	1158	N23	W90	07	11.7	1	03	9	9	V	KHAR		
18	BSL	1155U	1208D	N14	E90	07	25.3	1	02	9	9	V	KHAR		
18	DSF	2151U	1042U	N12	W07	07	18.4		06	0	0	E	RAMY	9085	
19	DSF	1859U	1113U	S04	W02	07	19.6		06	0	0	E	RAMY	9087	
19	EPL	2339	2348	N13	W83	07	13.7	3		0	0	E	HOLL	9077	
20	DSF	0411	0516U	N07	W24	07	18.4	2	06	0	0	E	LEAR	9085	
20	ADF	0923	0935D	N23	W23	07	18.6	1	04	9	9	V	KHAR		
20	ADF	1037U	1044	S14	W10	07	19.7	1	05		9	V	KHAR		
21	BSL	0815E	1125	S27	E90	07	28.2	2	07	9	9	V	KHAR		
21	DSD	1015	1130D	S13	E08	07	22.0	2	15	9	9	V	KHAR		
21	APR	1124U	1130D	N14	W90	07	14.7	1	04	9	9	V	KHAR		
22	DSF	1728U	0426U	S06	W02	07	22.6	1	09	9	9	E	SVTO		
22	DSF	2120U	1111U	S10	W05	07	22.5		09	0	0	E	RAMY	9091	
23	DSF	0031U	1111U	S16	E00	07	23.0	3	13	0	0	E	HOLL	9091	
23	DSF	0304	0415	S15	W02	07	23.0	1	09	9	9	E	LEAR		
23	DSF	0445U	0505	N06	E16	07	24.4	1	13	9	9	E	LEAR	9097	
23	DSF	0449U	0506U	S03	E21	07	24.8	1	12	9	9	E	SVTO	9097	
23	ADF	0930E	1010D	S21	W61	07	18.8	1	06	9	9	V	KHAR		

ACTIVE PROMINENCES AND FILAMENTS

JULY 2000

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
23	ADF	0930E	1010D	S32	W54	07	19.3	1	07	9	9	V	KHAR		
23	DSD	0956	1005	S12	W49	07	19.7	1	03	9	9	V	KHAR		
24	EPL	1635	1714	S29	W90	07	17.6	3		5	9	E	HOLL		
24	EPL	1646E	1648	S28	W90	07	17.7	3		0	0	E	SVTO		
24	EPL	1647E	1706D	S28	W90	07	17.7	3		5	9	E	RAMY		
24	DSF	1921U	1151U	N17	W18	07	23.4		10	0	0	E	RAMY 9090		
25	DSF	2119U	1124U	S15	W03	07	25.7		08	0	0	E	RAMY 9096		
26	LPS	0757	0830	S11	W90	07	19.6			9	9	E	LEAR 9087		
26	LPS	0823E	0840	S13	W90	07	19.5	1	7			P	WROC		
27	BSL	0756	0833	S14	W90	07	20.5			9	9	E	LEAR 9091		
28	DSF	1724U	0508U	N25	E72	08	3.3	2	16	0	0	E	SVTO		
28	DSF	2040U	2055	N17	E58	08	2.3	2	09	0	0	E	RAMY 9105		Flare Associated
29	DSF	0430U	0050U	N27	E73	08	3.9	2	15	0	0	E	LEAR		
30	EPL	1201E	1224D	S20	E90	08	6.4	3	23			P	WROC		
30	DSF	1711U	1151U	S26	W11	07	29.9		09	0	0	E	RAMY 9102		

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

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

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

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

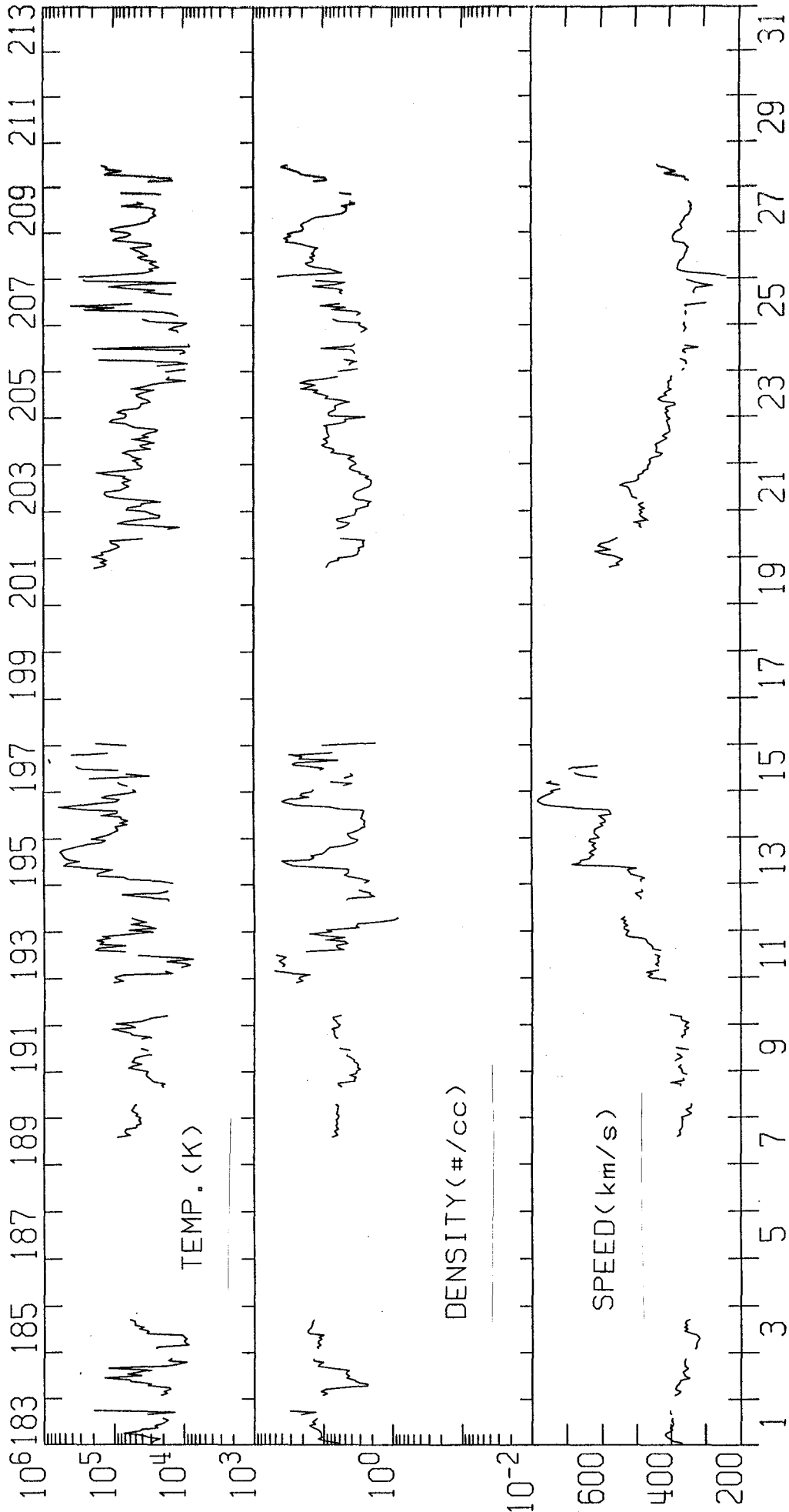
Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

ABST = Abastumani	HOLL = Holloman	RAMY = Ramey
ATHN = Athens	KHAR = Kharkov	SVTO = San Vito
BUCA = Bucharest	LEAR = Learmonth	VORO = Voroshilov
CATA = Catania	PALE = Palehua	VALA = Valasske Mezirici
		WROC = Wroclaw

NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

IMP 8 SOLAR WIND PLASMA  
JULY 2000

MIT/CSR IMP 8 PLASMA PARAMETERS



JUL 2000

JUL 2000

IMP 8

MIT

ONE-HOUR AVERAGES

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