FEBRUARY 2002 NUMBER 690 - Part II

Solar-Geophysical Data comprehensive reports

Data for August 2001 and Miscellaneous
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

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FEBRUARY 2002 NUMBER 690 - Part II

Solar-Geophysical Data comprehensive reports

Data for August 2001 and Late Data

International Standard Serial Number: 0038-0911
Library of Congress Catalog Number: 79-640375 //r81

NATIONAL GEOPHYSICAL DATA CENTER
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Subscription information is on the inside back cover.

SOLAR-GEOPHYSICAL DATA

Number 690

(Issued in Two Parts)

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DATA FOR **AUGUST 2001**

Hα SOLAR FLARES

AUGUST 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	LEAR	01	0329	0358	0428	S14	E49	9561	08	4.8	59	SF		3	E		41		F
0002	KANZ	01	0641	0643	0649	N03	E46	9562	08	4.7	8	SF		2	E				
0003		01	1006	10077	1018	N06	E56	9562	08	5.6	12	SF					65		EH
	KHAR	01	1005U	1007	1017D	N08	E55	9562	08	5.5	12U	SF		2	P	1005	65		HE
	KANZ	01	1006	1014	1018	N04	E56	9562	08	5.6	12	SF		2	E				
0004		01	13081	13094	1318	S12	E43	9561	08	4.8	10	SF					22		
	RAMY	01	1308	1309	1316	S12	E44	9561	08	4.9	8	SF		3	E		20		
	HOLL	01	1309	1313	1319	S13	E42	9561	08	4.7	10	SF		3	E		25		
0005	HOLL	01	1728	1737	1746	S14	E43	9561	08	5.0	18	SF		3	E		18		F
		01	2114		2121	No Flare Patrol													
0006	HOLL	01	2222	2224U	2250	S13	E40	9561	08	5.0	28	SF		2	E		84		U
0007	KANZ	02	0823	0823	0828	N24	E36	9563	08	5.1	5	SF		2	E				
0008	KANZ	02	0942	0947	0952	N23	E36	9563	08	5.2	10	SF		2	E				
0009	KANZ	02	1101	1114	1127	N05	E36	9562	08	5.1	26	SF		2	E				
0010	KANZ	02	1132	1132	1135	N23	E34	9563	08	5.1	3	SF		2	E				
0011		02	1204	1205	1213	N23	E34	9563	08	5.1	9	SF					44		H
	KANZ	02	1204	1205	1213	N23	E34	9563	08	5.1	9	SF		2	E				
	SVTO	02	1204	1205	1213	N23	E35	9563	08	5.2	9	SF		3	E		42		H
	RAMY	02	1204	1205	1214	N24	E34	9563	08	5.1	10	SF		3	E		47		H
0012		02	12294	12331	1258	N17	E52	9566	08	6.5	29	SF					80		F
	KANZ	02	1229	1233	1302	N17	E51	9566	08	6.4	33	SF		2	E				
	SVTO	02	1233	1234	1254	N17	E52	9566	08	6.5	21	SF		3	E		80		F
0013	RAMY	02	1249	1250	1307	N17	E51	9566	08	6.4	18	SF		3	E		48		FH
0014	HOLL	02	1333	1406	1414	S18	W02	9557	08	2.4	41	SF		3	E		24		F
0015		02	14573	14583	1510	N23	E34	9563	08	5.2	13	SF					20		F
	HOLL	02	1457	1458	1514	N23	E35	9563	08	5.3	17	SF		3	E		22		
	KANZ	02	1457	1501	1508	N23	E33	9563	08	5.2	11	SF		2	E				
	RAMY	02	1500	1501	1508	N24	E33	9563	08	5.2	8	SF		3	E		18		F
0016		02	1546*	15571	1607	S12	E28	9561	08	4.8	21	SF					45		H
	HOLL	02	1546	1558	1607	S12	E29	9561	08	4.8	21	SF		3	E		45		H
	KANZ	02	1557	1557	1607	S13	E28	9561	08	4.8	10	SF		2	E				
0017		02	1557	15572	1602	N23	E32	9563	08	5.1	5	SF					11		
	HOLL	02	1557	1557	1602	N23	E34	9563	08	5.3	5	SF		3	E		11		
	KANZ	02	1557	1559	1601	N23	E31	9563	08	5.0	4	SF		2	E				
0018		02	16091	16121	1626	N22	E33	9563	08	5.2	17	SF					36		FH
	HOLL	02	1609	1612	1628	N22	E35	9563	08	5.4	19	SF		3	E		55		H
	KANZ	02	1609	1613	1624	N22	E33	9563	08	5.2	15	SF		2	E				
	SVTO	02	1610	1613	1624	N22	E34	9563	08	5.3	14	SF		3	E		20		F
	RAMY	02	1610	1613	1627	N23	E31	9563	08	5.1	17	SF		3	E		33		HF
0019	HOLL	02	1723	1727	1737	N23	E33	9563	08	5.3	14	SF		3	E		19		
0020	HOLL	02	1744	1746	1755	N23	E32	9563	08	5.2	11	SF		3	E		53		
0021	HOLL	02	1853	1901	1908	N24	E31	9563	08	5.2	15	SF		3	E		32		
		02	2002		2146	No Flare Patrol													
		02	2225		2249	No Flare Patrol													
		02	2253		2346	No Flare Patrol													
0022	LEAR	03	0303	0306	0313	N22	E27	9563	08	5.2	10	SN		3	E		61		E

AUGUST 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0023	LEAR	03	0427	0434	0449	N16	E41	9566	08	6.3	22	SF		3	E		47		F
0024	LEAR	03	0534	0534	0542	S15	E06	9567	08	3.7	8	SF		3	E		18		F
0025		03	07422	07451	0757	N24	E28	9563	08	5.5	15	SF					18		F
	KANZ	03	0742	0745	0755	N25	E28	9563	08	5.5	13	SF		2	E				
	LEAR	03	0743	0746	0759	N24	E27	9563	08	5.4	16	SF		3	E		20		F
	SVTO	03	0744	0745	0757	N24	E28	9563	08	5.5	13	SF		3	E		15		F
0026	KHAR	03	0830E		0835	S20	W39	9568	07	31.4	5D	SF		2	P	0830	25		DH
0027		03	08565	08584	0910	S14	E05	9567	08	3.7	14	SF					24		DF
	KHAR	03	0856	0858	0911	S13	E06	9567	08	3.8	15	SF		2	P	0902	30		D
	KANZ	03	0900	0901	0910	S14	E05	9567	08	3.7	10	SF		2	E				
	LEAR	03	0900	0902	0911	S15	E04	9567	08	3.7	11	SF		3	E		24		F
	SVTO	03	0901	0902	0909	S14	E05	9567	08	3.7	8	SF		3	E		18		
0028		03	08562	08581	0912	S12	E19	9561	08	4.8	16	SF					30		EF
	KANZ	03	0856	0859	0913	S13	E19	9561	08	4.8	17	SF		2	E				
	LEAR	03	0858	0858	0913	S13	E18	9561	08	4.7	15	SF		3	E		10		F
	KHAR	03	0902U		0910	S10	E20	9561	08	4.9	8U	SF		2	P	0902	50		E
0029	SVTO	03	1001	1003	1016	N25	E26	9563	08	5.4	15	SF		3	E		28		F
0030	HOLL	03	1504	1504	1513	N14	W63	9564	07	30.0	9	SF		3	E		16		
0031		03	16371	16391	1658	S22	W20	9557	08	2.1	21	SF					25		F
	HOLL	03	1637	1640	1704	S22	W20	9557	08	2.1	27	SF		3	E		25		F
	RAMY	03	1638	1639	1653	S23	W18	9557	08	2.3	15	SF		3	E		16		F
	SVTO	03	1640E	1642U	1655D	S21	W23	9557	08	1.9	15D	SF		2	E		34		F
0032	HOLL	03	1739	1739	1746	N25	E24	9563	08	5.6	7	SF		3	E		12		F
		03	1751		1838	No Flare Patrol													
0033	HOLL	03	1857	1901	1905	S22	W21	9557	08	2.2	8	SF		3	E		14		F
		03	1911		1917	No Flare Patrol													
		03	1928		2010	No Flare Patrol													
		03	2030		2126	No Flare Patrol													
0034		03	21415	21443	2152	S14	W02	9567	08	3.7	11	SF					12		
	RAMY	03	2141	2144	2152	S15	W03	9567	08	3.7	11	SF		3	E		12		
	HOLL	03	2146	2147	2151	S13	W02	9567	08	3.7	5	SF		3	E		12		
		03	2308		2322	No Flare Patrol													
0035	HOLL	03	2333	2335	2340	S21	W23	9557	08	2.2	7	SF		3	E		10		F
0036	HOLL	03	2345	2348	2359	S21	W23	9557	08	2.2	14	SF		3	E		15		F
0037	LEAR	04	0207	0209	0214	N22	E13	9563	08	5.1	7	SF		3	E		57		FH
0038	LEAR	04	0300	0303	0305	N17	E32	9566	08	6.5	5	SF		3	E		14		F
0039	LEAR	04	0404	0405	0409	N22	E12	9563	08	5.1	5	SF		3	E		42		F
0040	LEAR	04	0901	0903	0908	S17	W57	9568	07	31.0	7	SF		3	E		17		
0041		04	09482	09496	0959	N22	E09	9563	08	5.1	11	SN					64		EH
	KANZ	04	0948	0949	1000	N20	E10	9563	08	5.2	12	SN		2	E				
	SVTO	04	0949	0950	0954	N24	E08	9563	08	5.0	5	SF		3	E		22		
	KHAR	04	0950	0955	1003	N23	E08	9563	08	5.0	13	SN		2	P	0950	105		HE
0042	KANZ	04	1119	1120	1122	N20	E08	9563	08	5.1	3	SF		2	E				
0043	KHAR	04	1150E	1153	1207	N20	E26	9566	08	6.5	17D	SF		2	V				D
0044	HOLL	04	1754	1758	1818	N17	E25	9566	08	6.6	24	SF		3	E		29		

Hα SOLAR FLARES

AUGUST 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0045	HOLL	04	1839	1840U	1942D	N16	E24	9566	08	6.6	63D	SF		3	E		65		
		04	1849		1940	No Flare Patrol													
0046	HOLL	04	1941E	1943U	2018D	S22	W34	9557	08	2.2	37D	SF		3	E		98		
0047	HOLL	04	2013E	2016U	2101D	N21	E05	9563	08	5.2	48D	SF		3	E		28		
		04	2021		2040	No Flare Patrol													
		04	2058		2101	No Flare Patrol													
		04	2201		2210	No Flare Patrol													
0048	HOLL	04	2340	2344	2350	S22	W36	9557	08	2.2	10	SF		3	E		11		
0049	HOLL	04	2351	2351	2405	N25	E08	9563	08	5.6	14	SF		3	E		24		
0050	LEAR	05	0050	0052	0104	S20	W44	9557	08	1.7	14	SF		3	E		13		
0051	LEAR	05	0113	0113	0127	N16	E19	9566	08	6.5	14	SF		3	E		38		
0052	LEAR	05	0340	0343	0349	N24	E03	9563	08	5.4	9	SF		3	E		18		F
0053	LEAR	05	0352	0353	0401	N23	E02	9563	08	5.3	9	SF		3	E		14		F
0054	LEAR	05	0405	0408	0419	N16	E18	9566	08	6.5	14	SF		3	E		31		F
0055	LEAR	05	0405	0408	0417	S15	W20	9567	08	3.6	12	SF		3	E		24		F
0056	LEAR	05	0514	0514	0518	N20	W01	9563	08	5.1	4	SF		3	E		36		F
0057	LEAR	05	0535	0541	0556	S13	W22	9567	08	3.6	21	SF		3	E		18		F
0058		05	09502	09511	1010	N18	E16	9566	08	6.6	20	SN					38		F
	KHAR	05	0950	0951	1021	N20	E17	9566	08	6.7	31	SN		2	P	0953	60		
	SVTO	05	0952	0952	0958	N17	E15	9566	08	6.5	6	SF		3	E		15		F
0059	KHAR	05	1044	1045	1102	S13	W21	9567	08	3.9	18	SN		2	P				HO
0060	KHAR	05	1128		1140	N20	E15	9566	08	6.6	12	SF		2	P	1135	45		DO
0061	KHAR	05	1150		1202	S05	E75	9570	08	11.1	12	SF		2	V				D
0062		05	12521	1254	1257	N16	E14	9566	08	6.6	5	SF					34		F
	RAMY	05	1252	1254	1307D	N16	E13	9566	08	6.5	15D	SF		3	E		51		F
	SVTO	05	1253	1254	1257	N17	E14	9566	08	6.6	4	SF		3	E		16		F
0063	RAMY	05	1257	1258	1309D	S20	W73	9568	07	31.0	12D	SF		3	E		13		
0064	RAMY	05	1326E	1326	1339	S23	W46	9557	08	2.0	13D	SF		3	E		18		F
0065	HOLL	05	1427	1439	1455	S19	W44	9557	08	2.2	28	SF		3	E		31		F
0066	HOLL	05	1455	1455	1501	S18	W73	9568	07	31.1	6	SF		3	E		19		
0067		05	15031	1504	1514	S20	W46	9557	08	2.1	11	SF					24		F
	HOLL	05	1503	1504	1517	S20	W46	9557	08	2.1	14	SF		3	E		35		F
	SVTO	05	1504	1504	1510	S19	W45	9557	08	2.2	6	SF		3	E		12		F
0068		05	15262	15271	1540	N17	E12	9566	08	6.5	14	SF					24		F
	HOLL	05	1526	1527	1544	N17	E13	9566	08	6.6	18	SF		3	E		33		F
	SVTO	05	1528	1528	1535	N17	E11	9566	08	6.5	7	SF		3	E		16		F
0069	RAMY	05	1534E	1534	1550	N17	E11	9566	08	6.5	16D	SF		3	E		75		F
0070		05	15262	15313	1552	S21	W45	9557	08	2.2	26	SF					89		F
	HOLL	05	1526	1533	1555	S21	W46	9557	08	2.1	29	SF		3	E		94		F
	SVTO	05	1528	1531	1544D	S19	W45	9557	08	2.2	16D	SF		2	E		60		F
	RAMY	05	1534E	1534	1550	S22	W45	9557	08	2.2	16D	SF		3	E		114		F

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0071		05	18124	18262	1839	S14	W28	9567	08	3.6	27	SF					38		F
	HOLL	05	1812	1828	1841	S13	W29	9567	08	3.6	29	SF		3	E		52		F
	RAMY	05	1816	1826	1837	S15	W26	9567	08	3.8	21	SF		3	E		23		F
0072		05	1829	1829	1840	S22	W49	9557	08	2.0	11	SF					20		F
	HOLL	05	1829	1829	1839	S20	W49	9557	08	2.0	10	SF		3	E		21		F
	RAMY	05	1829	1829	1840	S23	W49	9557	08	2.0	11	SF		3	E		20		F
0073	HOLL	05	1853	1904	1911	S20	W49	9557	08	2.0	18	SF		3	E		31		F
0074	HOLL	05	1914	1919	1933	S19	W48	9557	08	2.1	19	SF		3	E		15		F
0075		05	19503	19521	2006	N18	E09	9566	08	6.5	16	SF					30		F
	RAMY	05	1950	1952	2004	N17	E09	9566	08	6.5	14	SF		3	E		31		F
	HOLL	05	1953	1953	2007	N18	E09	9566	08	6.5	14	SF		3	E		28		F
0076		05	20491	20495	2104	N16	E09	9566	08	6.6	15	SF					15		F
	RAMY	05	2049	2049	2105	N16	E09	9566	08	6.6	16	SF		3	E		12		F
	HOLL	05	2050	2054	2104	N17	E09	9566	08	6.5	14	SF		3	E		18		F
0077		05	21172	21176	2139	S15	W30	9567	08	3.6	22	1N					80		F
	RAMY	05	2117	2117	2120	S16	W30	9567	08	3.6	3	SF		3	E		24		
	HOLL	05	2119	2123	2158	S14	W30	9567	08	3.6	39	1N		3	E		135		F
0078	HOLL	05	2127	2128	2144	S19	W50	9557	08	2.1	17	SF		3	E		24		F
0079	HOLL	05	2148	2154	2200	S17	W76	9568	07	31.1	12	SF		3	E		43		
0080	HOLL	05	2155	2156	2159	N17	E08	9566	08	6.5	4	SF		3	E		11		
0081	HOLL	05	2220	2224	2250	S20	W49	9557	08	2.2	30	1N		3	E		148		F
0082		05	2339	2340	2348	N16	E08	9566	08	6.6	9	SF					51		F
	LEAR	05	2339E	2340U	2346	N16	E07	9566	08	6.5	7D	SF		3	E		54		F
	HOLL	05	2339	2340	2351	N17	E08	9566	08	6.6	12	SF		3	E		48		
0083	LEAR	06	0054	0058	0121	S20	W54	9557	08	1.9	27	SF		3	E		32		FH
0084	LEAR	06	0601	0601	0605	N23	W12	9563	08	5.3	4	SF		3	E		25		H
0085	LEAR	06	0635	0636	0641	N17	E01	9566	08	6.3	6	SF		3	E		20		F
0086		06	07251	07283	0742	S19	W54	9557	08	2.2	17	SF					42		F
	LEAR	06	0725	0731	0747	S18	W54	9557	08	2.2	22	SF		3	E		67		F
	SVTO	06	0726	0728	0736	S20	W53	9557	08	2.2	10	SF		3	E		16		F
0087	LEAR	06	0832	0834	0848	N18	E03	9566	08	6.6	16	SF		1	E		36		FH
0088	LEAR	06	0910	0912	0918	S12	E67	9570	08	11.4	8	SF		1	E		20		
0089	KHAR	06	1040E		1047	S17	E06	9569	08	6.9	7D	SF		2	P	1044	35		L
0090		06	1041	1043	1058	N18	W00	9566	08	6.4	17	SF					50		E
	KHAR	06	1040E		1100	N17	W01	9566	08	6.4	20D	SF		2	P	1044	50		E
	KANZ	06	1041	1043	1057	N18	W00	9566	08	6.4	16	SF		2	E				
0091	HOLL	06	1515	1515	1521	N23	W17	9563	08	5.3	6	SF		3	E		15		F
0092		06	15212	15242	1541	S13	E64	9570	08	11.5	20	SF					48		FH
	HOLL	06	1521	1524	1543	S13	E63	9570	08	11.4	22	SF		3	E		72		F
	RAMY	06	1523	1526	1539	S13	E65	9570	08	11.5	16	SF		3	E		24		HF
0093	HOLL	06	1903	1905	1913	N17	W02	9566	08	6.6	10	SF		3	E		17		F
0094	HOLL	06	2010	2010	2013	S19	W66	9557	08	1.8	3	SF		3	E		12		
		06	2107		2112	No Flare Patrol													
		06	2123		2137	No Flare Patrol													
		06	2150		2224	No Flare Patrol													

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0095	HOLL	06	2302E	2304U	2319D	S20	W60	9557	08	2.4	17D	SF		3	E		56		
		06	2304		2316	No Flare Patrol													
0096	HOLL	06	2349	2352	2358	S17	W01	9569	08	6.9	9	SF		3	E		72		
0097		07	0012	00126	0023	S20	W70	9557	08	1.6	11	SF					26		
	LEAR	07	0012	0012	0023	S20	W70	9557	08	1.6	11	SF		3	E		26		
	HOLL	07	0012	0018	0023	S20	W70	9557	08	1.6	11	SF		3	E		27		
0098	LEAR	07	0113	0126	0146	S22	W65	9557	08	2.0	33	SF		4	E		29		F
0099	LEAR	07	0202	0202	0206	N26	W20	9563	08	5.5	4	SF		4	E		15		FH
0100	LEAR	07	0228	0231	0235	N17	W08	9566	08	6.5	7	SF		4	E		18		FH
0101		07	05171	05191	0526	N16	W09	9566	08	6.5	9	SF					16		FH
	KANZ	07	0517	0519	0528	N16	W09	9566	08	6.5	11	SF		2	E				
	LEAR	07	0518	0520	0525	N17	W09	9566	08	6.5	7	SF		3	E		16		FH
0102		07	05566	05575	0602	N16	W09	9566	08	6.6	6	SF					26		
	LEAR	07	0556	0557	0559	N17	W09	9566	08	6.6	3	SF		3	E		26		
	KANZ	07	0602	0602	0606	N16	W09	9566	08	6.6	4	SF		2	E				
0103	KANZ	07	0557	0557	0600	N17	W09	9566	08	6.6	3	SF		2	E				
0104		07	06012	0606	0610	S17	W08	9569	08	6.6	9	SF					15		
	KANZ	07	0601	0606	0610	S17	W07	9569	08	6.7	9	SF		2	E				
	LEAR	07	0603	0606	0609	S17	W08	9569	08	6.6	6	SF		3	E		15		
0105		07	07281	0729	0754	S20	W70	9557	08	1.9	26	SF					38		F
	LEAR	07	0728	0729	0810	S20	W71	9557	08	1.9	42	SF		3	E		61		F
	KANZ	07	0729	0729	0741	S20	W67	9557	08	2.2	12	SF		2	E				
	SVTO	07	0729	0729	0750	S21	W71	9557	08	1.9	21	SF		3	E		14		F
0106	LEAR	07	0842	0843	0901	S19	W76	9557	08	1.6	19	SF		3	E		17		
0107	KHAR	07	0955E		1005	S17	W05	9569	08	7.0	10D	SF		2	P	1001	30		DH
0108		07	1040U	1054U	1117	S16	W06	9569	08	7.0	37U	SF					51		DO
	KHAR	07	1040U		1105	S17	W06	9569	08	7.0	25U	SF		2	P	1043	30		OD
	RAMY	07	1045E	1054U	1129	S16	W07	9569	08	6.9	44D	SF		3	E		72		
0109		07	1040	1045	1051	S22	W71	9557	08	2.0	11	1N					98		DO
	KHAR	07	1040	1045	1051	S24	W69	9557	08	2.1	11	SN		2	P	1043	45		OD
	RAMY	07	1045E	1048U	1057D	S20	W73	9557	08	1.9	12D	1F		3	E		150		
0110	RAMY	07	1112	1113	1144	S20	W62	9557	08	2.7	32	SF		3	E		33		
0111	RAMY	07	1121	1125	1143	S24	W70	9557	08	2.1	22	SF		3	E		52		
0112	KHAR	07	1143	1144	1149	N24	W26	9563	08	5.5	6	SF		2	V				
0113	RAMY	07	1150	1154	1205	S25	W72	9557	08	1.9	15	SF		3	E		19		
0114		07	1218	12181	1221	S21	W77	9557	08	1.6	3	SF					17		
	RAMY	07	1218	1218	1221	S21	W79	9557	08	1.4	3	SF		3	E		18		
	SVTO	07	1218	1219	1221	S21	W75	9557	08	1.8	3	SF		3	E		16		
0115	RAMY	07	1232	1233	1240	S21	W81	9557	08	1.3	8	SF		3	E		10		
0116	RAMY	07	1238	1238	1246	S18	W08	9569	08	6.9	8	SF		3	E		23		
0117		07	15302	15341	1543	N26	W27	9563	08	5.5	13	SF					81		FH
	HOLL	07	1530	1535	1546	N26	W27	9563	08	5.5	16	1F		3	E		124		F
	RAMY	07	1531	1535	1544	N26	W27	9563	08	5.5	13	SF		3	E		87		FH
	SVTO	07	1532	1534	1538	N25	W27	9563	08	5.5	6	SF		3	E		32		
0118	HOLL	07	1558	1559	1600	S17	W09	9569	08	7.0	2	SF		3	E		21		

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0119		07	1627	16271	1636	S21	W75	9557	08	1.9	9	SF					18		
	RAMY	07	1627	1627	1635	S22	W78	9557	08	1.7	8	SF		3	E		12		
	HOLL	07	1627	1628	1636	S20	W72	9557	08	2.2	9	SF		3	E		24		
0120	HOLL	07	1743	1745	1754	N26	W27	9563	08	5.6	11	SF		3	E		46		
0121	HOLL	07	1753	1754	1805	S17	W13	9569	08	6.7	12	SF		3	E		22		F
		07	1807		1825	No Flare Patrol													
		07	1852		2134	No Flare Patrol													
		07	2155		2330	No Flare Patrol													
0122	LEAR	07	2354	2355	2358	S18	W83	9557	08	1.7	4	SF		3	E		24		
0123	LEAR	08	0101	0101	0104	S21	W78	9557	08	2.1	3	SF		3	E		16		
0124	LEAR	08	0208	0208	0213	S15	W59	9567	08	3.6	5	SF		3	E		11		F
0125	LEAR	08	0400	0401	0404	S10	E89	9573	08	14.8	4	SF		3	E		12		
0126	LEAR	08	0628	0628	0632	S10	E89	9573	08	14.9	4	SF		3	E		16		
0127		08	0724	0725	0729	N25	W37	9563	08	5.4	5	SF					36		
	SVTO	08	0724	0725	0728	N26	W37	9563	08	5.4	4	SF		3	E		22		
	LEAR	08	0724	0725	0730	N24	W37	9563	08	5.4	6	SF		3	E		51		
0128	LEAR	08	0802	0811	0815	S20	W88	9557	08	1.6	13	SF		3	E		31		
0129	KHAR	08	0900E		0916	S24	W80	9557	08	2.2	16D	1F		2	V				L
0130	KHAR	08	1009		1050U	N20	W44	9563	08	5.0	41U	SF		2	V				DH
0131		08	1029	10292	1034	N24	W39	9563	08	5.4	5	SF					13		O
	SVTO	08	1029	1029	1031	N26	W39	9563	08	5.4	2	SF		3	E		13		
	KHAR	08	1030U	1031	1037	N23	W39	9563	08	5.4	7U	SF		2	V				O
0132	RAMY	08	1343	1343	1347	N17	W26	9566	08	6.6	4	SF		3	E		13		F
0133		08	1433	1433	1436	S18	W24	9569	08	6.8	3	SF					22		F
	RAMY	08	1433	1433	1435	S18	W23	9569	08	6.8	2	SF		3	E		17		F
	HOLL	08	1433	1433	1436	S17	W24	9569	08	6.8	3	SF		3	E		27		F
0134	RAMY	08	1511	1512	1514	N25	W43	9563	08	5.3	3	SF		3	E		14		F
0135	RAMY	08	1918	1918	1939	N15	W31	9566	08	6.4	21	SF		3	E		13		F
0136	HOLL	08	1956	2000	2008	N18	W29	9566	08	6.6	12	SF		2	E		62		FH
		08	2013		2334	No Flare Patrol													
0137	LEAR	09	0044	0048	0058	S16	W30	9569	08	6.7	14	SF		3	E		18		
0138	LEAR	09	0244	0245	0248	N23	W52	9563	08	5.1	4	SF		3	E		26		
0139	LEAR	09	0310	0318	0339	N18	W33	9566	08	6.6	29	SF		3	E		64		F
0140	LEAR	09	0436	0440	0449	N23	W52	9563	08	5.2	13	SF		3	E		61		
0141	LEAR	09	0557	0558	0602	N18	W37	9566	08	6.4	5	SF		3	E		17		
0142	LEAR	09	0812	0814	0824	S13	W76	9567	08	3.6	12	SF		3	E		55		
0143		09	11285	11362	1150	N10	E54	9571	08	13.5	22	SF					23		F
	KANZ	09	1128	1136	1146D	N10	E55	9571	08	13.6	18D	SF		2	E				
	SVTO	09	1133	1138	1150	N11	E54	9571	08	13.5	17	SF		3	E		23		F
0144		09	1417	14191	1422	N06	W56	9562	08	5.4	5	SF					13		
	SVTO	09	1417	1419	1422	N07	W56	9562	08	5.4	5	SF		3	E		13		
	RAMY	09	1417	1420	1422	N06	W56	9562	08	5.4	5	SF		3	E		13		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0145	RAMY	09	1825	1829	1914	S17	E19	9570	08	11.2	49	1F		3	E		227		FH
0146	RAMY	09	1914	1921	1927	N04	W69	9565	08	4.6	13	SF		3	E		34		
		09	2151		2236	No Flare Patrol													
0147	LEAR	10	0133	0134	0144	N05	W72	9562	08	4.7	11	SF		3	E		26		F
0148	LEAR	10	0352	0354	0357	N24	W61	9563	08	5.4	5	SF		3	E		29		F
0149	LEAR	10	0552	0554	0602	N17	W49	9566	08	6.5	10	SF		2	E		21		F
0150	KHAR	10	0950E		0958	S03	E12	9574	08	11.3	8D	SF		2	P	0954	40		H
0151	KHAR	10	1038	1040	1050	S02	E13	9574	08	11.4	12	SF		2	P	1043	40		D
0152	KHAR	10	1132	1135	1144	N21	E90		08	17.4	12	SN		2	V				H
		10	1726		1820	No Flare Patrol													
0153	HOLL	10	1902	1902	1907	N23	W70	9563	08	5.4	5	SF		3	E		30		
0154	HOLL	10	1907	1907	1911	N23	W71	9563	08	5.3	4	SF		3	E		20		
0155	HOLL	10	1903	1905	1910	N20	W53	9566	08	6.7	7	SF		3	E		36		
		10	1921		2228	No Flare Patrol													
0156	HOLL	11	0027	0033	0045	S04	E03	9574	08	11.2	18	SF		3	E		19		FU
0157	LEAR	11	0040	0042	0051	N18	W61	9566	08	6.4	11	SF		1	E		94		F
		11	0111		0334	No Flare Patrol													
0158	LEAR	11	0354	0355	0400	N21	W59	9566	08	6.6	6	SF		3	E		50		F
0159	KHAR	11	0938		0955	N19	W90	9563	08	4.5	17	SN		2	V				L
0160	KHAR	11	1019	1020	1025	N18	W84	9563	08	5.0	6	SN		2	V				DH
0161	KHAR	11	1047		1102	N25	W80	9563	08	5.2	15	SF		2	V				DH
0162	KHAR	11	1102	1104	1111	N17	W83	9563	08	5.1	9	SN		2	V				
0163		11	11352	1139	1157	N20	W84	9563	08	5.0	22	SN					60		H
	RAMY	11	1135	1148U	1200	N21	W81	9563	08	5.3	25	SF		3	E		60		H
	KHAR	11	1137	1139	1154	N18	W86	9563	08	4.9	17	SN		2	V				
0164	RAMY	11	1753	1754	1806	S03	W06	9574	08	11.3	13	SF		3	E		35		F
		11	1816		1925	No Flare Patrol													
		11	1944		2049	No Flare Patrol													
		11	2111		2125	No Flare Patrol													
		11	2144		2216	No Flare Patrol													
0165	LEAR	12	0441	0442	0446	S04	W13	9574	08	11.2	5	SF		3	E		28		F
0166	KHAR	12	1003	1005	1012	N26	E90		08	19.4	9	SB		2	P	1006	150		L
0167	KHAR	12	1137	1139	1144	S05	W16	9574	08	11.3	7	SF		2	P	1140	30		D
		12	2126		2214	No Flare Patrol													
		12	2244		2400	No Flare Patrol													
		13	0000		0045	No Flare Patrol													
0168	KHAR	13	1129	1131	1135	S09	W19	9578	08	12.0	6	SF		2	P	1132	35		D
0169		13	19211	1922	1928	S03	W34	9574	08	11.3	7	SF					14		F
	HOLL	13	1921	1922	1929	S02	W35	9574	08	11.2	8	SF		3	E		16		F
	RAMY	13	1922	1922	1927	S04	W33	9574	08	11.3	5	SF		3	E		11		

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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 Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0170	HOLL	14	0035	0035	0040	S16	E02	9586	08	14.2	5	SF		3	E		11		F
0171	HOLL	14	0041	0042	0053	S17	E00	9586	08	14.0	12	SF		3	E		12		
0172	RAMY	14	1237	1238	1240	N16	W36	9577	08	11.8	3	SF		3	E		10		
0173	KANZ	14	1240	1242	1255	S07	E01	9573	08	14.6	15	SF		2	E				
		14	2049		2400	No Flare Patrol													
		15	0000		0459	No Flare Patrol													
0174		15	12411	12411	1244	S06	W56	9574	08	11.3	3	SF					20		F
	RAMY	15	1241	1241	1244	S06	W57	9574	08	11.3	3	SF		3	E		20		F
	KANZ	15	1242	1242	1243	S05	W56	9574	08	11.3	1	SF		2	E				
		15	1827		2029	No Flare Patrol													
		15	2047		2139	No Flare Patrol													
		15	2154		2400	No Flare Patrol													
		16	0146		0512	No Flare Patrol													
0175	KANZ	16	0654	0656	0658	N09	E16	9575	08	17.5	4	SF		2	E				
		16	0822		0844	No Flare Patrol													
0176		16	11191	1121	1124	S27	W20	9581	08	14.9	5	SF					13		
	KANZ	16	1119	1121	1124	S26	W20	9581	08	14.9	5	SF		2	E				
	RAMY	16	1120	1121	1124	S28	W20	9581	08	14.9	4	SF		3	E		13		
		16	1832		1839	No Flare Patrol													
		16	2156		2200	No Flare Patrol													
		16	2214		2227	No Flare Patrol													
0177	HOLL	17	0001	0002	0005	N16	E59	9585	08	21.5	4	SF		3	E		22		
0178	HOLL	17	0009	0009	0019	S24	W30	9581	08	14.7	10	SF		3	E		34		
0179		17	1329	13301	1338	N18	E69	9585	08	22.8	9	SF					15		
	RAMY	17	1329	1330	1339	N19	E71	9585	08	23.0	10	SF		3	E		15		
	KANZ	17	1329	1331	1338	N18	E67	9585	08	22.7	9	SF		2	E				
0180	HOLL	17	1413	1414	1422	N10	E01	9575	08	17.7	9	SF		3	E		12		F
		17	1726		1733	No Flare Patrol													
0181	HOLL	17	1740	1749	1750	N15	E55	9585	08	21.9	10	SF		3	E		16		EF
		17	1832		1844	No Flare Patrol													
		17	1849		2252	No Flare Patrol													
		17	2319		2325	No Flare Patrol													
0182	HOLL	17	2334	2334	2338	N14	E63	9585	08	22.7	4	SF		3	E		16		
		17	2341		2351	No Flare Patrol													
		18	0019		0028	No Flare Patrol													
0183	HOLL	18	0035E	0043U	0043D	N14	E62	9585	08	22.7	8D	SF		3	E		31		
		18	0045		0240	No Flare Patrol													
0184	LEAR	18	0325	0329	0356	N25	E44	9582	08	21.5	31	SF		3	E		72		F
		18	0424		0438	No Flare Patrol													
0185	LEAR	18	0513	0515	0520	N26	E43	9582	08	21.5	7	SF		3	E		23		
0186		18	06521	06531	0700	N26	E40	9582	08	21.4	8	SF					32		F
	LEAR	18	0652	0653	0659	N25	E41	9582	08	21.5	7	SF		2	E		32		F
	KANZ	18	0653	0654	0700	N26	E40	9582	08	21.4	7	SF		2	E				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0187		18	0831	0833	0840	S16	W52	9586	08	14.4	9	SF					69		
	SVTO	18	0831	0833	0839	S15	W52	9586	08	14.4	8	SF		3	E		69		
	KANZ	18	0831	0833	0840	S16	W52	9586	08	14.4	9	SF		2	E				
0188	KANZ	18	1006	1006	1007	N26	E37	9582	08	21.3	1	SF		2	E				
0189		18	11122	11171	1141	N26	E38	9582	08	21.4	29	SF					29		
	SVTO	18	1112	1118	1140	N25	E39	9582	08	21.5	28	SF		3	E		29		
	KANZ	18	1114	1117	1142	N26	E38	9582	08	21.4	28	SF		2	E				
0190	KHAR	18	1220E		1232	N18	E56	9585	08	22.8	12D	SF		2	P	1224	50		D
0191		18	12472	12494	1309	N27	E38	9582	08	21.5	22	SF					95		EF
	KHAR	18	1247	1249	1310	N30	E37	9582	08	21.4	23	1N		2	P	1255	180		E
	SVTO	18	1248	1252	1313	N26	E39	9582	08	21.6	25	SF		3	E		54		F
	RAMY	18	1248	1253	1305	N27	E39	9582	08	21.6	17	SF		3	E		52		F
	KANZ	18	1249	1251	1301D	N26	E37	9582	08	21.4	12D	SF		2	E				
0192	KHAR	18	1300	1302	1308	N17	E55	9585	08	22.7	8	SF		2	V				D
		18	1724		2337	No Flare Patrol													
0193	LEAR	19	0143	0143	0145	S08	W61	9573	08	14.5	2	SF		3	E		11		
0194	KANZ	19	0613	0615	0624	N09	W21	9575	08	17.7	11	SF		2	E				
0195	RAMY	19	1300	1302	1311	N09	W24	9575	08	17.7	11	SF		3	E		23		F
0196	HOLL	19	2202	2203	2216	N11	W29	9575	08	17.7	14	SF		3	E		40		F
0197	LEAR	20	0255	0257	0305	N15	E33	9585	08	22.6	10	SF		3	E		17		F
0198	LEAR	20	0519	0527	0547	N28	E23	9582	08	22.0	28	SF		3	E		46		F
0199	LEAR	20	0546	0548	0600	N16	E34	9585	08	22.8	14	SF		3	E		40		FU
0200	LEAR	20	0600	0600	0604	N29	E22	9582	08	22.0	4	SF		3	E		16		
0201	LEAR	20	0750	0750	0756	N14	E13		08	21.3	6	SF		3	E		11		
0202		20	0807*	08214	0838	N29	E20	9582	08	21.9	31	1F					69		FH
	LEAR	20	0807	0821	0844	N28	E20	9582	08	21.9	37	1F		3	E		110		FH
	KANZ	20	0817E	0821	0838	N30	E19	9582	08	21.8	21D	1F		2	E				
	SVTO	20	0821	0825	0831	N30	E20	9582	08	21.9	10	SF		3	E		28		FH
0203	KHAR	20	1054	1057	1102	S18	W85	9586	08	14.0	8	SF		2	P	1058	40		HO
0204	KHAR	20	1145	1147	1151	S25	E78	9590	08	26.5	6	SF		2	V				D
0205	KHAR	20	1147	1150	1205	S18	W85	9586	08	14.0	18	SF		2	V				D
0206	KHAR	20	1205U		1225	N17	E13	9580	08	21.5	20U	SF		2	P	1211	35		D
0207	HOLL	20	1452	1454	1459	S14	E26	9587	08	22.6	7	SF		3	E		10		
		20	1851		1858	No Flare Patrol													
		20	1921		2007	No Flare Patrol													
		20	2210		2355	No Flare Patrol													
0208	LEAR	20	2357	2358	2405	N15	E25	9585	08	22.9	8	SF		3	E		27		
0209	LEAR	21	0157	0157	0202	N15	E24	9585	08	22.9	5	SF		3	E		10		
0210	RAMY	21	1422	1422	1428	N15	E14	9585	08	22.6	6	SF		3	E		11		F
		21	1546		2034	No Flare Patrol													
		21	2145		2224	No Flare Patrol													
		21	2242		2321	No Flare Patrol													

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0211	LEAR	22	0338	0338	0341	N27	W09	9582	08	21.4	3	SF		3	E		18		
		22	0903		0918	No Flare Patrol													
		22	0923		0944	No Flare Patrol													
		22	1030		1141	No Flare Patrol													
		22	1201		1217	No Flare Patrol													
		22	1251		1252	No Flare Patrol													
		22	1254		1301	No Flare Patrol													
0212		22	15022	1504	1523	S16	E80	9591	08	28.7	21	SF					44		F
	HOLL	22	1502	1504	1523	S17	E77	9591	08	28.5	21	SF		3	E		73		F
	RAMY	22	1504	1504U	1534D	S16	E84	9591	08	29.0	30D	SF		3	E		15		
0213	HOLL	22	1655	1657	1704	S18	E75	9591	08	28.4	9	SF		3	E		37		F
0214	HOLL	22	1715	1720	1731	S18	E69	9591	08	28.0	16	SF		3	E		40		
0215	HOLL	22	1753	1756	1809	S17	E74	9591	08	28.4	16	1N		4	E		102		E
0216	HOLL	22	1846	1846	1900	S19	E73	9591	08	28.3	14	SF		3	E		12		F
0217	HOLL	22	2115	2115	2125	S18	E73	9591	08	28.4	10	SF		3	E		14		F
0218	HOLL	22	2142	2143	2156	S18	E67	9591	08	28.0	14	SF		3	E		22		F
0219	HOLL	22	2233	2239	2241	S18	E65	9591	08	27.9	8	SF		3	E		21		
0220	HOLL	22	2331	2332	2341	S18	E66	9591	08	28.0	10	SF		3	E		36		
0221		22	23532		2411	S18	E74	9591	08	28.6	18	SF					90		F
	LEAR	22	2353		2411	S19	E74	9591	08	28.6	18	SF		2	E		93		
	HOLL	22	2355		2411	S17	E73	9591	08	28.5	16	SF		3	E		86		F
0222	LEAR	23	0027	0028	0035	S21	E72	9591	08	28.5	8	SF		2	E		15		
0223	KANZ	23	0511	0512	0520	S20	E68	9591	08	28.4	9	SF		2	E				
0224	KANZ	23	0654	0654	0659	S17	E71	9591	08	28.7	5	SF		2	E				
0225	KANZ	23	0800	0803	0808	S17	E67	9591	08	28.4	8	SF		2	E				
		23	0838		0841	No Flare Patrol													
		23	0935		0942	No Flare Patrol													
		23	1055		1059	No Flare Patrol													
		23	1110		1117	No Flare Patrol													
0226	HOLL	23	1346	1347	1400	S19	E61	9591	08	28.2	14	1F		3	E		108		F
0227	SVTO	23	1347E	1347U	1357D	S18	E75	9591	08	29.3	10D	SF		2	E		99		
0228		23	14361	14401	1444	S18	E68	9591	08	28.8	8	SF					43		F
	HOLL	23	1436	1441	1445	S18	E68	9591	08	28.8	9	SF		3	E		55		
	SVTO	23	1437	1440	1444	S18	E69	9591	08	28.9	7	SF		2	E		31		F
0229	HOLL	23	1607	1609	1618	S05	W67	9592	08	18.7	11	SF		3	E		12		
0230	HOLL	23	1754	1755	1808	S21	E63	9591	08	28.6	14	SF		3	E		30		
0231	HOLL	23	1843	1846	1850	S18	E64	9591	08	28.6	7	SF		3	E		23		
		23	2130		2137	No Flare Patrol													
		23	2146		2223	No Flare Patrol													
0232	HOLL	23	2239	2240	2244	S07	W74	9592	08	18.4	5	SF		3	E		21		
0233	HOLL	23	2330	2332	2336	S07	W74	9592	08	18.4	6	SF		3	E		15		
		24	0150		0159	No Flare Patrol													

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0234	KANZ	24	0622	0624	0634	S21	E55	9591	08	28.5	12	SF		2	E				
0235		24	0902	0903	0913	S15	E57	9591	08	28.7	11	SF					22		F
	SVTO	24	0902E	0902U	0914D	S16	E58	9591	08	28.8	12D	SF		2	E		16		F
	LEAR	24	0902	0903	0913	S15	E57	9591	08	28.7	11	SF		3	E		29		F
	KANZ	24	0905E		0908D	S15	E56	9591	08	28.6	3D	SF		2	E				
0236		24	1113	11211	1140	S25	E30	9590	08	26.8	27	SF					42		F
	KANZ	24	1113	1121	1146D	S25	E29	9590	08	26.7	33D	SF		2	E				
	RAMY	24	1113	1122	1140	S24	E31	9590	08	26.9	27	SF		3	E		59		F
	SVTO	24	1118E	1125U	1140D	S26	E30	9590	08	26.8	22D	SF		3	E		24		F
0237		24	1152	1153	1201	S17	E52	9591	08	28.4	9	SF					16		
	RAMY	24	1152	1153	1201	S16	E53	9591	08	28.5	9	SF		3	E		15		
	SVTO	24	1153E	1156U	1200D	S18	E52	9591	08	28.4	7D	SF		3	E		17		
0238		24	1317	1317	1325	S17	E52	9591	08	28.5	8	SF					40		
	SVTO	24	1317	1317	1324	S18	E52	9591	08	28.5	7	SF		3	E		36		
	RAMY	24	1317	1317	1326	S16	E53	9591	08	28.6	9	SF		3	E		44		
0239	HOLL	24	1330	1348	1404	S24	E53	9591	08	28.6	34	1F		3	E		169		EF
0240		24	13321	13342	1347	S21	E53	9591	08	28.6	15	SF					108		F
	KANZ	24	1332	1334	1342	S22	E52	9591	08	28.6	10	SF		2	E				
	RAMY	24	1333	1335	1358	S20	E55	9591	08	28.8	25	1F		3	E		128		F
	SVTO	24	1333	1336	1341	S21	E52	9591	08	28.5	8	SF		3	E		89		
0241	SVTO	24	1346	1348	1354	S23	E53	9591	08	28.6	8	SF		3	E		18		
0242	HOLL	24	1405	1405	1415	S18	E43	9591	08	27.9	10	SF		3	E		17		
0243	KANZ	24	1500	1502	1504	S17	E42	9591	08	27.8	4	SF		2	E				
0244		24	1457*	1512	1530	S18	E45	9591	08	28.0	33	SF					31		F
	HOLL	24	1457	1512	1540	S18	E42	9591	08	27.8	43	SF		3	E		46		F
	RAMY	24	1510	1512	1522	S18	E50	9591	08	28.4	12	SF		3	E		28		F
	SVTO	24	1510	1512	1528	S18	E44	9591	08	28.0	18	SF		3	E		20		F
	KANZ	24	1511	1512	1514D	S18	E43	9591	08	27.9	3D	SF		2	E				
		24	2029		2035	No Flare Patrol													
		24	2142		2203	No Flare Patrol													
		24	2238		2244	No Flare Patrol													
0245	HOLL	24	2245	2248	2435D	S18	E46	9591	08	28.4	110D	1N		3	E		213		F
0246	HOLL	24	2309	2309	2316	N18	W27	9585	08	22.9	7	SF		3	E		33		
0247	LEAR	24	2352		2456	S18	E44	9591	08	28.3	64	SF		3	E		96		F
0248	LEAR	25	0059	0103	0116	S18	E43	9591	08	28.3	17	SF		3	E		34		
0249	LEAR	25	0333	0336	0337	S19	E40	9591	08	28.2	4	SF		3	E		15		
0250	SVTO	25	0710	0711	0717	S20	E42	9591	08	28.5	7	SF		3	E		12		F
0251		25	07193	07253	0756	S17	E37	9591	08	28.1	37	SF					64		F
	SVTO	25	0719	0725	0746	S17	E38	9591	08	28.2	27	SF		3	E		61		F
	LEAR	25	0721	0728	0801	S18	E37	9591	08	28.1	40	SF		3	E		67		F
	KANZ	25	0722	0728	0800	S17	E37	9591	08	28.1	38	SF		2	E				
0252	LEAR	25	0802	0806	0813	S18	E34	9591	08	27.9	11	SF		3	E		25		
0253		25	08195	08231	0831	S18	E32	9591	08	27.8	12	SF					15		
	LEAR	25	0819	0823	0832	S18	E32	9591	08	27.8	13	SF		3	E		20		
	SVTO	25	0824	0824	0830	S17	E32	9591	08	27.8	6	SF		3	E		10		
0254		25	08411	0843	0849	S18	E34	9591	08	27.9	8	SF					23		
	SVTO	25	0841	0843	0849	S18	E34	9591	08	27.9	8	SF		3	E		23		
	KANZ	25	0842	0843	0849	S18	E34	9591	08	27.9	7	SF		2	E				

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0255	SVTO	25	0850E	0850U	0905D	S19	E37	9591	08	28.2	15D	SF		2	E		13		
0256		25	0909*	09271	0939	S17	E32	9591	08	27.8	30	SF					96		FH
	SVTO	25	0909	0928U	0948	S17	E32	9591	08	27.8	39	1N		2	E		154		F
	KANZ	25	0924	0927	0937	S17	E32	9591	08	27.8	13	SF		2	E				
	LEAR	25	0924	0928	0933	S18	E31	9591	08	27.7	9	SF		3	E		39		FH
0257		25	09551	09581	1007	S17	E32	9591	08	27.8	12	SF					30		F
	SVTO	25	0955	0959	1008D	S17	E31	9591	08	27.8	13D	SF		2	E		30		F
	KANZ	25	0956	0958	1007	S17	E32	9591	08	27.8	11	SF		2	E				
0258	KANZ	25	1001	1004	1006	S26	E18	9590	08	26.8	5	SF		2	E				
0259		25	1048	10486	1059	S18	E33	9591	08	28.0	11	SF					20		F
	RAMY	25	1048	1048	1057	S18	E35	9591	08	28.1	9	SF		3	E		12		F
	KANZ	25	1048	1054	1059	S18	E32	9591	08	27.9	11	SF		2	E				
	SVTO	25	1048	1054	1101	S18	E33	9591	08	28.0	13	SF		3	E		28		F
0260	KANZ	25	1108	1108	1112	S20	E40	9591	08	28.5	4	SF		2	E				
0261	RAMY	25	1300	1300	1308	S18	E32	9591	08	28.0	8	SF		3	E		10		F
0262		25	13261	13271	1333	S17	E30	9591	08	27.8	7	SF					32		
	KANZ	25	1326	1328	1334	S17	E30	9591	08	27.8	8	SF		2	E				
	RAMY	25	1327	1327	1334	S17	E31	9591	08	27.9	7	SF		3	E		36		
	SVTO	25	1327	1328	1332	S17	E29	9591	08	27.8	5	SF		3	E		28		
0263		25	1441	1441	1444	S18	E30	9591	08	27.9	3	SF					16		
	KANZ	25	1441	1441	1444	S18	E31	9591	08	28.0	3	SF		2	E				
	SVTO	25	1441	1441	1444	S18	E30	9591	08	27.9	3	SF		3	E		16		
0264	HOLL	25	1524	1529	1545	S18	E32	9591	08	28.1	21	SF		3	E		54		F
0265	HOLL	25	1554	1555	1557	S18	E32	9591	08	28.1	3	SF		3	E		11		
0266		25	16142	16151	1622	S20	E38	9591	08	28.6	8	SF					54		
	HOLL	25	1614	1615	1623	S20	E38	9591	08	28.6	9	SF		3	E		94		
	RAMY	25	1616	1616	1621	S19	E39	9591	08	28.6	5	SF		3	E		15		
0267		25	1515*	1632	1725D	S20	E38	9591	08	28.5	130D	2N					145		FU
	SVTO	25	1515	1630U	1655D	S20	E38	9591	08	28.5	100D	1N		1	E		145		UF
	KANZ	25	1623	1632	1725D	S21	E38	9591	08	28.6	62D	3N		2	E				
0268	HOLL	25	1624	1652	1917	S17	E34	9591	08	28.3	173	3B		3	E		605		U
0269	HOLL	25	1930	1930	1934	S20	E35	9591	08	28.5	4	SF		3	E		11		
0270	RAMY	25	1954	1955	2001	S19	E37	9591	08	28.6	7	SF		3	E		28		
		25	2028		2032	No Flare Patrol													
0271	RAMY	25	2049	2049	2054	S12	W49	9587	08	22.2	5	SF		3	E		10		
0272	RAMY	25	2112	2118	2121	S11	W48	9587	08	22.3	9	SF		3	E		10		
0273	HOLL	25	2116	2126	2201	S19	E24	9591	08	27.7	45	SF		3	E		22		
0274	HOLL	25	2158	2201	2212	S10	W49	9587	08	22.2	14	SF		3	E		11		
0275	HOLL	25	2206	2216	2246	S19	E29	9591	08	28.1	40	SF		3	E		17		
0276	HOLL	25	2213	2215	2231	S10	W49	9587	08	22.2	18	SF		3	E		14		
		25	2218		2230	No Flare Patrol													
		25	2256		2302	No Flare Patrol													
0277	HOLL	25	2302	2304	2306	S19	E29	9591	08	28.2	4	SF		3	E		52		
0278	HOLL	25	2303	2304	2307	S27	E13	9590	08	27.0	4	SF		3	E		75		F

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0279	HOLL	25	2314	2352	2356	S10	W50	9587	08	22.2	42	SF		3	E		23		
0280	LEAR	25	2344	2345	2419	S19	E25	9591	08	27.9	35	SF		2	E		50		F
0281	LEAR	26	0110	0113	0117	S09	W52	9587	08	22.1	7	SF		2	E		27		
0282		26	0610	0610	0618	S19	E21	9591	08	27.8	8	SF					22		F
	LEAR	26	0610	0610	0614	S19	E21	9591	08	27.8	4	SF		2	E		13		F
	SVTO	26	0610	0610	0623	S19	E21	9591	08	27.8	13	SF		3	E		31		
0283		26	0912	0921	0934	S18	E20	9591	08	27.9	22	SF					74		F
	KANZ	26	0912	0921	0932	S17	E20	9591	08	27.9	20	SF		2	E				
	SVTO	26	0912	0921	0935	S18	E21	9591	08	28.0	23	SF		3	E		74		F
0284	KANZ	26	0936	0938	0941	S21	E28	9591	08	28.5	5	SF		2	E				
0285		26	1004	1007	1030	S19	E18	9591	08	27.8	26	1F					85		H
	SVTO	26	1004	1007	1030	S19	E16	9591	08	27.6	26	SF		3	E		85		H
	KANZ	26	1012E		1023D	S19	E19	9591	08	27.9	11D	1F		2	E				
0286		26	1120	11211	1126	S17	E28	9591	08	28.6	6	SF					21		
	KANZ	26	1120	1121	1125	S17	E28	9591	08	28.6	5	SF		2	E				
	SVTO	26	1120	1121	1126	S17	E28	9591	08	28.6	6	SF		3	E		32		
	RAMY	26	1120	1122	1126	S16	E29	9591	08	28.7	6	SF		3	E		10		
0287		26	14056	14111	1421	S21	E26	9591	08	28.6	16	SF					24		F
	HOLL	26	1405	1411	1423	S22	E27	9591	08	28.7	18	SF		3	E		31		F
	KANZ	26	1407E	1412	1421	S21	E26	9591	08	28.6	14D	SF		2	E				
	RAMY	26	1411	1411	1421	S21	E27	9591	08	28.7	10	SF		3	E		24		F
	SVTO	26	1411	1412	1420	S20	E26	9591	08	28.6	9	SF		3	E		18		
0288	HOLL	26	1728	1730	1733	S20	E23	9591	08	28.5	5	SF		3	E		14		
0289	HOLL	26	1742	1743	1747	S17	E26	9591	08	28.7	5	SF		3	E		17		
0290	HOLL	26	1812	1812	1819	S20	E24	9591	08	28.6	7	SF		3	E		11		
0291	HOLL	26	1936	1937	1943	S22	E24	9591	08	28.7	7	SF		3	E		11		
0292	HOLL	26	2013	2015	2055	S22	E23	9591	08	28.6	42	SF		3	E		23		
0293	HOLL	26	2100	2100	2107	S21	E23	9591	08	28.6	7	SF		3	E		49		
0294	HOLL	26	2119	2126	2130	S17	E21	9591	08	28.5	11	SF		3	E		23		
0295	HOLL	26	2223	2224	2228	S18	E20	9591	08	28.4	5	SF		3	E		15		
0296	HOLL	26	2234	2236	2240	S21	E23	9591	08	28.7	6	SF		3	E		14		
0297	HOLL	27	0009	0014U	0116	S17	E19	9591	08	28.4	67	SF		3	E		76		F
		27	0130		0140	No Flare Patrol													
0298	LEAR	27	0403	0404	0406	S17	E18	9591	08	28.5	3	SF		2	E		15		F
0299		27	05341	05411	0550	S18	E12	9591	08	28.1	16	SF					19		
	KANZ	27	0534	0541	0551	S18	E12	9591	08	28.1	17	SF		2	E				
	LEAR	27	0535	0542	0550	S19	E12	9591	08	28.1	15	SF		3	E		19		
0300	KANZ	27	0748	0748	0756	S21	E16	9591	08	28.5	8	SF		2	E				
0301		27	11411	11415	1151	S16	E13	9591	08	28.5	10	SF					12		F
	RAMY	27	1141	1141	1152	S15	E14	9591	08	28.5	11	SF		3	E		10		F
	SVTO	27	1141	1146	1152	S16	E12	9591	08	28.4	11	SF		3	E		14		F
	KANZ	27	1142	1142	1149	S18	E12	9591	08	28.4	7	SF		2	E				
0302	RAMY	27	1247	1250	1253	N11	W63	9585	08	22.8	6	SF		3	E		12		

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0303		27	1341	13416	1402	S17	E08	9591	08	28.2	21	SF					28		F
	SVTO	27	1341	1341	1357	S17	E08	9591	08	28.2	16	SF		3	E		24		F
	RAMY	27	1341	1341	1408	S16	E09	9591	08	28.2	27	SF		3	E		34		F
	HOLL	27	1341	1347	1402	S17	E07	9591	08	28.1	21	SF		3	E		25		F
0304		27	14022	1404	1409	S23	W06	9590	08	27.1	7	SF					21		F
	HOLL	27	1402	1404	1411	S23	W07	9590	08	27.0	9	SF		3	E		27		F
	RAMY	27	1404	1404	1407	S23	W06	9590	08	27.1	3	SF		3	E		15		
0305		27	1413	14134	1422	S20	E14	9591	08	28.7	9	SF					19		F
	SVTO	27	1413	1413	1421	S20	E13	9591	08	28.6	8	SF		3	E		13		
	HOLL	27	1413	1417	1422	S22	E14	9591	08	28.7	9	SF		3	E		22		F
	RAMY	27	1413	1417	1423	S19	E14	9591	08	28.7	10	SF		3	E		22		F
0306		27	15271	15295	1550	S19	E12	9591	08	28.5	23	SF					40		FH
	SVTO	27	1527	1529	1545	S19	E10	9591	08	28.4	18	SF		3	E		23		F
	RAMY	27	1528	1534	1555	S19	E14	9591	08	28.7	27	SF		3	E		56		FH
0307	HOLL	27	1653	1653	1659	S20	E11	9591	08	28.5	6	SF		3	E		17		
0308		27	1737	1737	1740	S17	E06	9591	08	28.2	3	SF					18		F
	HOLL	27	1737	1737	1740	S18	E05	9591	08	28.1	3	SF		3	E		17		
	RAMY	27	1737	1737	1741	S16	E06	9591	08	28.2	4	SF		3	E		20		F
0309		27	17441	1746	1800	S17	E06	9591	08	28.2	16	SF					60		F
	HOLL	27	1744	1746	1801	S18	E05	9591	08	28.1	17	SF		3	E		61		
	RAMY	27	1745	1746	1758	S16	E06	9591	08	28.2	13	SF		3	E		59		F
0310	HOLL	27	1752	1752	1758	S12	W71	9587	08	22.4	6	SF		3	E		17		
0311	HOLL	27	1752	1753	1757	S13	W84	9584	08	21.4	5	SF		3	E		21		
0312	HOLL	27	1845	1845	1851	S18	E63	9599	09	1.6	6	SF		3	E		23		
		27	1854		1901	No Flare Patrol													
		27	1905		1935	No Flare Patrol													
0313	HOLL	27	1936	1936	1947	S22	E10	9591	08	28.6	11	SF		3	E		18		F
0314		27	19472	19571	2034	S21	E11	9591	08	28.7	47	SF					29		FH
	HOLL	27	1947	1957	2039	S22	E10	9591	08	28.6	52	SF		3	E		32		
	RAMY	27	1949	1958	2028	S20	E12	9591	08	28.7	39	SF		3	E		26		FH
0315	RAMY	27	2016	2017	2019	N13	W84		08	21.5	3	SF		3	E		14		
0316	HOLL	27	2238	2243	2325	S21	E08	9591	08	28.5	47	SN		3	E		50		F
0317	HOLL	27	2355	2356	2359	S12	W74	9587	08	22.4	4	SF		3	E		23		
0318		28	00022	0011	0042	S14	E06	9591	08	28.4	40	1N					134		FH
	HOLL	28	0002	0014U	0042	S13	E06	9591	08	28.4	40	1N		3	E		166		F
	LEAR	28	0004	0011	0041	S15	E05	9591	08	28.4	37	1F		3	E		102		FH
0319	HOLL	28	0011	0013	0019	N13	E79	9600	09	3.0	8	SF		3	E		62		F
0320	LEAR	28	0201	0201	0205	N16	E78	9600	09	3.0	4	SF		3	E		15		F
0321	LEAR	28	0331	0333	0336	S10	W81	9587	08	22.1	5	SF		3	E		12		
		28	0442		0459	No Flare Patrol													
0322	LEAR	28	0651	0657	0714D	N13	E76	9600	09	3.0	23D	SF		3	E		34		
0323		28	0840	0840	0842	N12	E80	9601	09	3.4	2	SF					14		
	SVTO	28	0840	0840	0842	N12	E80	9601	09	3.4	2	SF		3	E		14		
	KANZ	28	0843E		0845D	N12	E79	9601	09	3.3	2D	SF		2	E				
0324	SVTO	28	1008	1014	1040	S20	E02	9591	08	28.6	32	SF		3	E		18		F

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0325	SVTO	28	1041	1044	1053	S20	E02	9591	08	28.6	12	SF		3	E		13		F
0326		28	1147	1147	1151	N14	E78	9600	09	3.4	4	SF					28		
	KANZ	28	1147	1147	1150	N12	E78	9600	09	3.4	3	SF		2	E				
	RAMY	28	1147	1147	1152	N15	E78	9600	09	3.4	5	SF		3	E		28		
0327	RAMY	28	1224	1225	1235	S12	W88	9587	08	21.9	11	SF		3	E		12		
0328	RAMY	28	1337	1338	1351	S13	W85	9587	08	22.1	14	SF		3	E		36		H
0329	HOLL	28	1458	1458	1503	N10	E79	9601	09	3.5	5	SF		3	E		10		
0330		28	15351	15362	1546	N14	E68	9601	09	2.8	11	SF					22		F
	SVTO	28	1535	1538	1553	N16	E66	9601	09	2.6	18	SF		3	E		29		
	HOLL	28	1536	1536	1540	N13	E69	9601	09	2.8	4	SF		3	E		15		F
0331		28	1544*	16093	1618	N12	E68	9601	09	2.8	34	1F					75		FH
	HOLL	28	1544	1612	1623	N12	E69	9601	09	2.8	39	1F		3	E		118		FH
	SVTO	28	1601	1609	1614	N13	E68	9601	09	2.8	13	SF		3	E		32		
0332		28	1558	1609	1645D	N16	E65	9600	09	2.6	47D	SF					64		
	SVTO	28	1558	1609	1645D	N15	E65	9600	09	2.6	47D	SF		2	E		74		
	RAMY	28	1559E	1603U	1616D	N18	E65	9600	09	2.6	17D	SF		3	E		55		
0333	SVTO	28	1548	1551	1553	N13	E66	9601	09	2.6	5	SF		3	E		12		
0334	HOLL	28	1650	1653	1658	N10	E76	9601	09	3.4	8	SF		3	E		19		
0335	HOLL	28	1828	1832	1838	N10	E76	9601	09	3.5	10	SF		3	E		54		
0336		28	19225	19275	1944	N13	E74	9601	09	3.4	22	SF					44		
	HOLL	28	1922	1932	1954	N10	E70	9601	09	3.1	32	SF		3	E		75		
	RAMY	28	1927	1927	1933	N16	E78	9601	09	3.7	6	SF		3	E		14		
0337	HOLL	28	2003	2005	2029	N15	E66	9600	09	2.8	26	SF		3	E		24		
0338	HOLL	28	2023	2024	2028	N11	E71	9601	09	3.2	5	SF		3	E		16		
		28	2032		2039	No Flare Patrol													
0339	HOLL	28	2102	2103	2110	N12	E74	9601	09	3.4	8	SF		3	E		22		
		28	2155		2400	No Flare Patrol													
		29	0000		0119	No Flare Patrol													
		29	0126		0332	No Flare Patrol													
0340	LEAR	29	0507	0519U	0552D	N12	E69	9601	09	3.4	45D	2F		3	E		452		EF
0341		29	0508	0520	0549	N15	E67	9600	09	3.3	41	1F					138		
	LEAR	29	0508	0520U	0551D	N16	E64	9600	09	3.1	43D	1F		3	E		138		
	KANZ	29	0512E	0520	0549	N14	E70	9600	09	3.5	37D	1F		2	E				
0342	KANZ	29	0540	0549	0559	S17	W15	9591	08	28.1	19	SF		2	E				
0343		29	05491	05501	0600	N15	E20	9597	08	30.7	11	SF					14		
	KANZ	29	0549	0551	0601	N14	E19	9597	08	30.7	12	SF		2	E				
	LEAR	29	0550	0550	0559	N16	E20	9597	08	30.7	9	SF		3	E		14		
0344		29	10215	1027	1038	N17	E16	9597	08	30.6	17	SF					19		F
	KANZ	29	1021	1027	1040	N17	E16	9597	08	30.6	19	SF		2	E				
	SVTO	29	1026	1027	1037	N17	E16	9597	08	30.6	11	SF		3	E		19		F
0345		29	10291	1035	1044	S18	W26	9591	08	27.4	15	SF					16		F
	KANZ	29	1029	1035	1045	S18	W27	9591	08	27.4	16	SF		2	E				
	SVTO	29	1030	1035	1042	S17	W25	9591	08	27.5	12	SF		3	E		16		F
0346		29	11094	11113	1127	S16	W20	9591	08	27.9	18	1F					100		F
	KANZ	29	1109	1111	1128	S16	W20	9591	08	27.9	19	1F		2	E				
	SVTO	29	1109	1113	1122	S17	W22	9591	08	27.8	13	SF		3	E		72		F
	RAMY	29	1113	1114	1132	S16	W18	9591	08	28.1	19	1F		3	E		129		F

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0347	RAMY	29	1244	1248	1317	N18	E65	9600	09	3.5	33	1F		3	E		137		FU
0348		29	12444	12483	1317	N14	E64	9601	09	3.4	33	SF					42		F
	KANZ	29	1244	1251	1320	N13	E63	9601	09	3.3	36	1F		2	E				
	SVTO	29	1246	1249	1311	N13	E66	9601	09	3.5	25	SF		3	E		37		F
	RAMY	29	1248	1248	1320	N15	E64	9601	09	3.4	32	SF		3	E		46		F
0349		29	1440	1440	1449	N14	E66	9601	09	3.6	9	SF					13		
	SVTO	29	1440	1440	1448	N13	E66	9601	09	3.6	8	SF		3	E		15		
	RAMY	29	1440	1440	1450	N16	E66	9601	09	3.6	10	SF		3	E		11		
		29	1638		1710	No Flare Patrol													
0350	HOLL	29	1824	1839U	1929	N18	E58	9600	09	3.2	65	1F		3	E		103		F
		29	1945		2006	No Flare Patrol													
0351	HOLL	29	2013	2017	2041	N16	E56	9600	09	3.1	28	1N		3	E		117		F
0352	HOLL	29	2056	2100	2112	S17	E39	9599	09	1.8	16	SF		3	E		50		F
		29	2130		2141	No Flare Patrol													
		29	2159		2222	No Flare Patrol													
		29	2253		2259	No Flare Patrol													
0353	HOLL	29	2341	2342	2349	S21	W18	9591	08	28.6	8	SF		3	E		22		F
0354	LEAR	30	0058	0059	0102	N12	E59	9601	09	3.5	4	SF		2	E		14		F
0355	LEAR	30	0136	0139	0150	N12	E52	9601	09	3.0	14	SF		2	E		64		FH
0356	LEAR	30	0418	0419	0424	S19	W27	9591	08	28.1	6	SF		2	E		12		
0357		30	0644	06441	0649	S20	W28	9591	08	28.1	5	SF					21		F
	SVTO	30	0644	0644	0648	S20	W28	9591	08	28.1	4	SF		3	E		12		
	LEAR	30	0644	0645	0650	S19	W29	9591	08	28.1	6	SF		2	E		30		F
0358	KANZ	30	0820E		0840	S18	E31	9599	09	1.7	20D	SF		2	E				
0359	HOLL	30	1621	1622	1623	N15	E49	9600	09	3.4	2	SF		3	E		14		
0360	HOLL	30	1729	1750	1859	S21	W28	9591	08	28.6	90	2N		3	E		299		FZ
0361	HOLL	30	1751	1756	1838	S18	E26	9599	09	1.7	47	SF		3	E		79		H
		30	1839		1850	No Flare Patrol													
0362	HOLL	30	1900	1901	1909	S18	W28	9591	08	28.6	9	SF		3	E		47		F
0363	HOLL	30	1922	1926	1927	N16	E43	9600	09	3.1	5	SF		3	E		11		
0364	HOLL	30	1927	1928	1932	S29	W53	9590	08	26.6	5	SF		3	E		14		
0365	HOLL	30	2022	2023	2026	N17	E45	9601	09	3.3	4	SF		3	E		15		
0366	HOLL	30	2032	2038	2106	N15	E44	9601	09	3.2	34	1N		3	E		132		F
0367	HOLL	30	2304	2312	2319	S18	E22	9599	09	1.6	15	SF		3	E		50		
		30	2334		2338	No Flare Patrol													
0368		31	08495	08567	0913	S20	W35	9591	08	28.7	24	SF					20		F
	SVTO	31	0849	0856	0917	S21	W35	9591	08	28.7	28	SF		3	E		26		F
	LEAR	31	0854	0903	0909	S18	W35	9591	08	28.7	15	SF		1	E		14		F
0369		31	10381	1041	1050	N16	E38	9601	09	3.3	12	SN					78		F
	SVTO	31	1038	1041	1047	N15	E37	9601	09	3.2	9	SN		3	E		83		
	RAMY	31	1039	1039U	1053	N18	E38	9601	09	3.3	14	SF		3	E		74		F
		31	1124		1238	No Flare Patrol													

Hα SOLAR FLARES

AUGUST 2001

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0370	RAMY	31	1127	1140	1208	N17	E31	9601	09	2.8	41	1F		3	E		113		F
0371	RAMY	31	1136	1137	1143	S15	E18	9599	09	1.8	7	SF		3	E		15		F
		31	1249		1257	No Flare Patrol													
		31	1400		1403	No Flare Patrol													
		31	1436		1454	No Flare Patrol													
0372	RAMY	31	1448	1451	1458	N19	E33	9601	09	3.1	10	SF		3	E		14		U
0373		31	15061	15062	1520	N14	E30	9601	09	2.9	14	SF					28		FH
	RAMY	31	1506	1506	1519	N16	E29	9601	09	2.8	13	SF		3	E		13		
	HOLL	31	1507	1508	1522	N13	E30	9601	09	2.9	15	SF		3	E		44		FH
0374		31	15292	15311	1549	N14	E28	9601	09	2.8	20	SF					38		FH
	HOLL	31	1529	1531	1552	N13	E29	9601	09	2.8	23	SF		3	E		48		F
	RAMY	31	1531	1532	1546	N16	E28	9601	09	2.8	15	SF		3	E		29		FH
0375	HOLL	31	2122	2126	2156	N16	E37	9601	09	3.7	34	1N		3	E		159		F
		31	2219		2226	No Flare Patrol													
0376	HOLL	31	2228	2243	2418	N14	E25	9601	09	2.8	110	2N		3	E		325		FU
		31	2303		2314	No Flare Patrol													

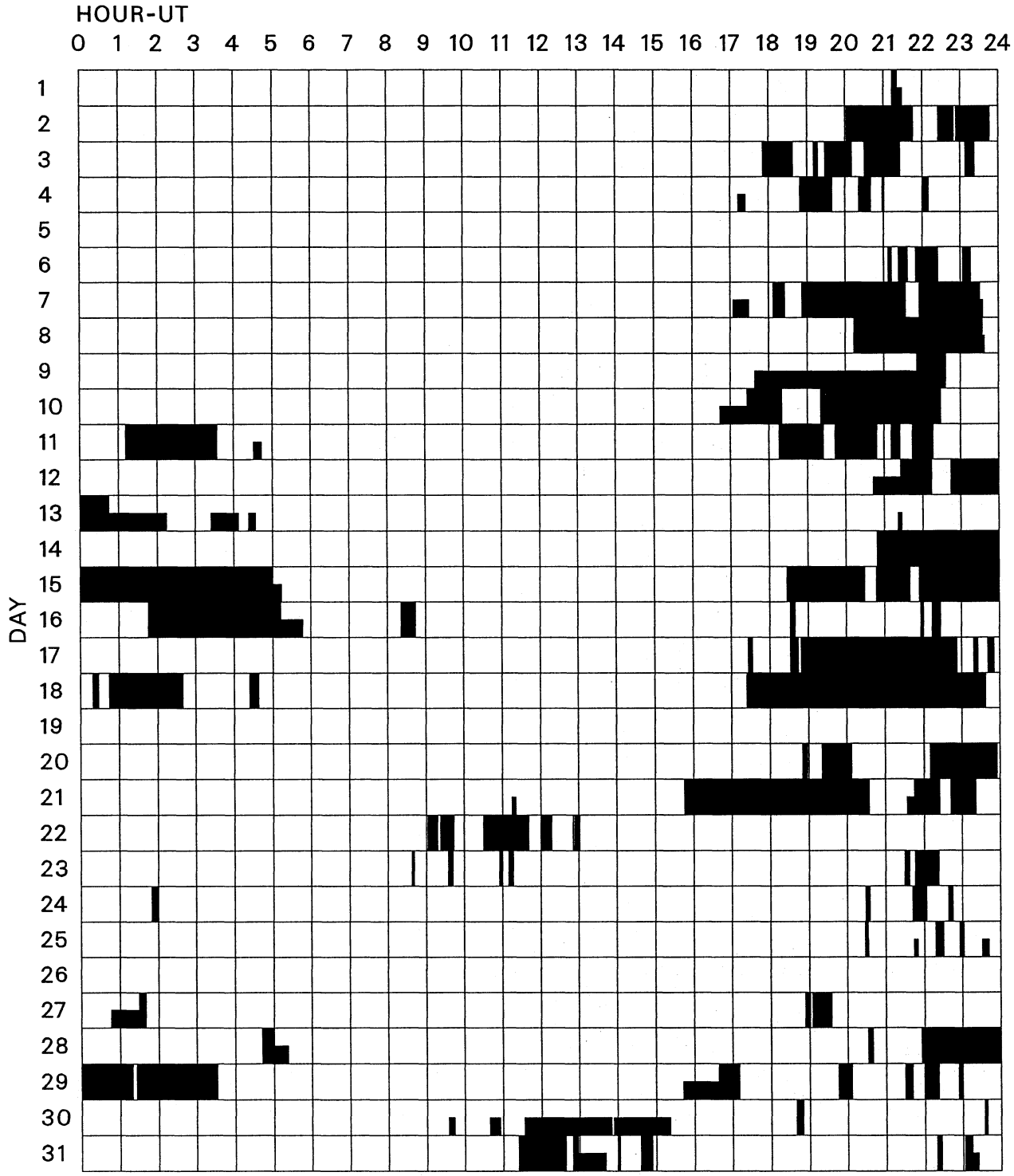
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

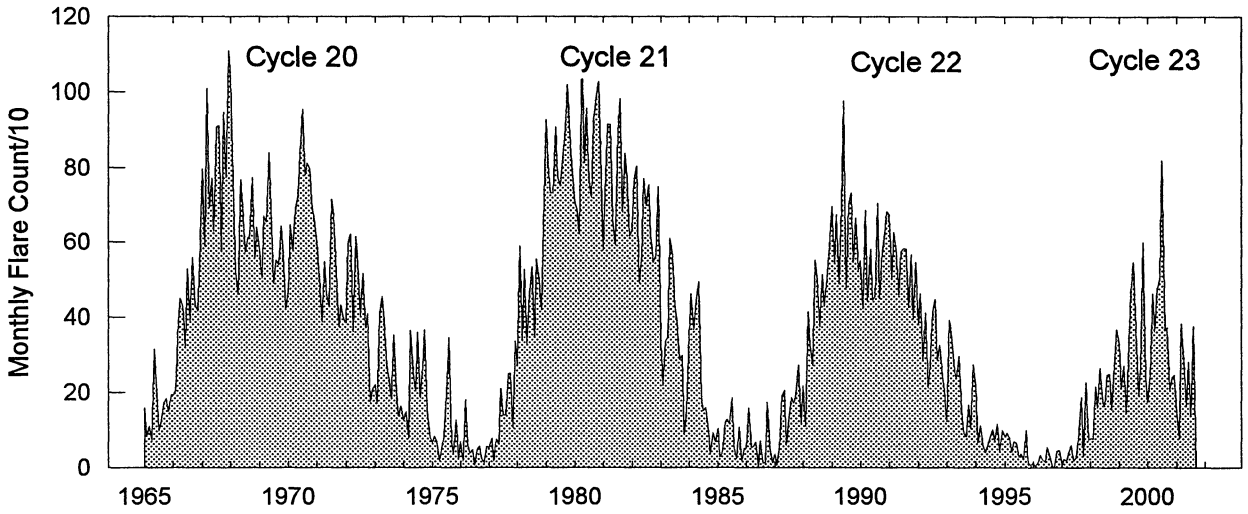
AUGUST 2001



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	Learmonth	Ramey	San Vito
Mitaka	Voroshilov	Kanzelhoehe	Kharkov

Monthly Counts of Grouped Solar Flares
Jan 1965 - Aug 2001



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	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376					1850

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

SOLAR RADIO EMISSION
Outstanding Occurrences

AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	127	TORN	44	NS	0630.0E		190.0D		12.0		V=0
	235	CUBA	44	NS	1300.0E		480.0D		7.0		
	280	CUBA	44	NS	1300.0E		480.0D		14.0		
	245	PALE	8	S	0026.0	0026.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0110.0	0110.0	1.0	530.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0110.0	0110.0	1.0	660.0			QL=4 ST=2 TYP=6
	500	HIRA	8	S	0111.0	0111.0	1.0	10.0			0
	245	LEAR	8	S	0329.0	0329.0	1.0	89.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0329.0	0329.0	1.0	120.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0629.5	0629.8	1.5				
	2800	PENT	29	PBI	2218.0	2225.0	14.0U	4.0			
02	127	TORN	43	NS	0940.0		320.0		3.0		V=1
	280	CUBA	44	NS	1300.0E		420.0D		13.0		
	235	CUBA	44	NS	1330.0E		390.0D		7.0		
	204	IZMI	46	C	0823.8	0824.2	1.2	696.0			
	245	LEAR	8	S	0824.0	0824.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0824.0	0824.0	U	100.0			QL=4 ST=2 TYP=3
	33	UPIC	4	S/F	0824.5	0825.0	1.0				
	204	IZMI	42	SER	0946.1	0946.2	1.6	36.0			
	204	IZMI	42	SER	1107.1	1107.2	0.3	21.0			
	204	IZMI	7	C	1125.6	1125.7	0.1	16.0			
	204	IZMI	41	F	1130.4	1130.4	0.1	21.0			
	245	SGMR	49	GB	1204.0	1205.0	1.0	1100.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1204.0	1204.0	1.0	540.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1204.0	1205.0	2.0	990.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1204.0	1204.0	1.0	790.0			QL=4 ST=2 TYP=6
	127	TORN	47	GB	1234.0	1236.2	4.0	680.0	110.0		
	245	SVTO	8	S	1319.0	1321.0	2.0	94.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1320.0	1321.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1459.0	1500.0	1.0	1100.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1459.0	1500.0	1.0	220.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1459.0	1500.0	2.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1459.0	1500.0	1.0	1100.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1459.0	1500.0	1.0	270.0			QL=4 ST=2 TYP=3
	235	CUBA	7	C	1459.8	1500.3	1.2		45.0		
	280	CUBA	7	C	1459.8	1500.3	1.2	177.0	88.0		
	2800	PENT	4	S/F	1605.0	1611.0	12.0	10.0			
	6700	CUBA	2	S/F	1608.8	1611.8	4.2	9.0	4.0		17L
	245	SGMR	48	C	1609.0	1609.0	3.0	60.0			QL=4 ST=3 TYP=8
	245	SVTO	8	S	1609.0	1609.0	1.0	87.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1610.0	1610.0	2.0	42.0			QL=4 ST=3 TYP=3
	610	SGMR	8	S	1610.0	1610.0	2.0	29.0			QL=4 ST=3 TYP=3
	235	CUBA	42	SER	1719.3	1745.5	29.2		159.0		
	280	CUBA	42	SER	1719.3	1745.5	29.2	372.0	186.0		
	245	PALE	48	C	1725.0	1728.0	3.0	1300.0			QL=4 ST=2 TYP=8
	410	PALE	4	S/F	1725.0	1727.0	4.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1725.0	1727.0	3.0	1100.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	1725.0	1726.0	5.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	1725.0	1728.0	3.0	610.0			QL=2 ST=2 TYP=8
	610	SGMR	4	S/F	1726.0	1728.0	4.0	100.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1728.0	1728.0	1.0	78.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	1737.0	1746.0	14.0	4.0			
	410	PALE	8	S	1741.0	1741.0	U	70.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1742.0	1746.0	5.0	1100.0			QL=4 ST=2 TYP=6
	6700	CUBA	2	S/F	1746.0	1747.0	2.0	7.0	3.0		30L
	610	PALE	8	S	1746.0	1747.0	2.0	150.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1746.0	1747.5	2.6	9.0	4.0		
	410	SGMR	8	S	1848.0	1848.0	1.0	52.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1849.0	1849.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1849.0	1849.0	U	29.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1858.0	1859.0	3.0	37.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1859.0	1900.0	1.0	63.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1859.0	1859.0	U	34.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1900.0	1900.0	U	52.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1908.0	1908.0	1.0	77.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1908.0	1908.0	U	83.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2003.0	2003.0	1.0	40.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2008.0	2008.0	U	69.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	245	SGMR	8	S	2008.0	2008.0	U	55.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	2014.0	2014.0	1.0	54.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	2014.4	2016.0	2.6	5.0	2.0		OOL
	245	SGMR	8	S	2036.0	2036.0	1.0	380.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2036.0	2036.0	1.0	120.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2036.0	2036.0	U	110.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2037.0	2037.0	1.0	75.0			0
	245	PALE	49	GB	2037.0	2037.0	U	600.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2037.0	2037.0	U	150.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2103.0	2104.0	1.0	10.0			0
	245	PALE	8	S	2103.0	2103.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2103.0	2103.0	U	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2103.0	2103.0	U	26.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	2140.0	2144.0	6.0	25.0			0
	245	SGMR	8	S	2144.0	2144.0	U	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2144.0	2144.0	U	29.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	2144.0	2144.0	U	39.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2147.0	2147.0	U	100.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2204.0	2204.0	1.0	30.0			0
	245	PALE	8	S	2204.0	2204.0	U	160.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2204.0	2204.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2204.0	2204.0	U	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2204.0	2204.0	U	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2214.0	2215.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2301.0	2301.0	2.0	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2301.0	2301.0	U	92.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	2325.0	2325.0	1.0	15.0			0
	245	LEAR	8	S	2325.0	2325.0	U	50.0			QL=2 ST=2 TYP=3
03	127	TORN	43	NS	0820.0		260.0		4.0		V=0
	235	CUBA	44	NS	1330.0E		450.0D		6.0		
	280	CUBA	44	NS	1330.0E		450.0D		14.0		
	245	SGMR	43	NS	2032.0	2048.0	33.0	240.0			QL=4 ST=2 TYP=1
	500	HIRA	8	S	0106.0	0106.0	1.0	10.0			0
	245	LEAR	8	S	0106.0	0106.0	U	450.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0109.0	0112.0	6.0	66.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0109.0	0114.0	7.0	70.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0111.0	0114.0	4.0	41.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0112.0	0115.0	4.0	70.0			WL
	500	HIRA	8	S	0215.0	0215.0	1.0	20.0			0
	500	HIRA	8	S	0224.0	0224.0	1.0	10.0			0
	2840	PEKG	5	S	0303.0	0305.7	4.0	22.2			
	2800	HIRA	1	S	0304.0	0306.0	3.0	20.0			0
	500	HIRA	8	S	0304.0	0306.0	4.0	225.0			WL
	245	LEAR	49	GB	0304.0	0305.0	3.0	6300.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0304.0	0305.0	3.0	7200.0			QL=4 ST=2 TYP=6
	410	LEAR	49	GB	0305.0	0305.0	1.0	1500.0			QL=4 ST=2 TYP=6
	610	LEAR	8	S	0305.0	0305.0	1.0	130.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0305.0	0305.0	1.0	64.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0305.0	0305.0	1.0	77.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0305.0	0305.0	1.0	56.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	0305.0	0306.0	1.0	1100.0			QL=4 ST=2 TYP=6
	610	PALE	8	S	0305.0	0305.0	1.0	120.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0305.0	0305.0	4.0	52.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0406.0	0406.0	1.0	25.0			WL
	500	HIRA	8	S	0409.0	0409.0	1.0	10.0			WL
	500	HIRA	8	S	0534.0	0534.0	1.0	15.0			0
	245	LEAR	8	S	0541.0	0541.0	2.0	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0541.0	0541.0	2.0	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0541.0	0541.0	1.0	160.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0541.0	0541.0	U	90.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0541.5	0541.7	0.4	281.0			
	500	HIRA	8	S	0542.0	0542.0	1.0	15.0			0
	204	IZMI	42	SER	0556.7	0557.5	22.0	46.0			
	500	HIRA	8	S	0557.0	0557.0	2.0	30.0			0
	3000	IZMI	1	S	0559.1	0559.2	0.2	24.0	9.0		
	245	LEAR	8	S	0656.0	0656.0	U	160.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0656.0	0656.0	U	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0656.0	0656.0	U	160.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean	Int	Remarks
03	410	SVTO	8	S	0656.0	0656.0	U	170.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0656.0	0656.0	U	56.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	0656.3	0656.5	1.6	275.0			
	500	HIRA	8	S	0657.0	0657.0	1.0	130.0			0
	204	IZMI	41	F	0709.2	0709.8	0.7	35.0			
	245	LEAR	8	S	0713.0	0713.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0713.0	0713.0	1.0	140.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0713.2	0713.8	0.9	67.0			
	204	IZMI	46	C	0746.1	0748.9	5.3	1957.0			
	245	LEAR	49	GB	0748.0	0748.0	1.0	500.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0748.0	0748.0	1.0	350.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0748.0	0748.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0748.0	0748.0	1.0	480.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0748.0	0748.0	1.0	430.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0748.0	0748.0	1.0	73.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0749.0	0749.0	2.0	135.0			0
	204	IZMI	41	F	0817.3	0817.4	0.4	51.0			
	204	IZMI	41	F	0835.4	0835.8	0.6	59.0			
	204	IZMI	41	F	0947.3	0947.4	0.5	27.0			
	33	UPIC	42	SER	0947.5		152.5				
	245	SVTO	8	S	1018.0	1019.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1019.0	1019.0	U	50.0			QL=2 ST=2 TYP=3
	204	IZMI	41	F	1019.1	1019.2	0.3	22.0			
	204	IZMI	42	SER	1021.2	1021.3	0.2	90.0			
	245	SVTO	8	S	1136.0	1137.0	2.0	69.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1137.0	1137.0	1.0	84.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1137.3	1137.9	2.0	64.0			
	204	IZMI	42	SER	1153.5	1153.7	1.4	35.0			
	245	SGMR	8	S	1346.0	1346.0	U	81.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1346.0	1346.0	2.0	66.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2013.0	2013.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2015.0	2015.0	U	82.0			QL=4 ST=2 TYP=8
04	127	TORN	43	NS	0840.0		340.0		7.0		V=0
	235	CUBA	44	NS	1315.0E		465.0D		7.0		
	280	CUBA	44	NS	1315.0E		465.0D		14.0		
	2840	PEKG	45	C	0203.0	0207.1	10.0	19.6			
	245	LEAR	8	S	0208.0	0208.0	U	290.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0208.0	0208.0	1.0	290.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0402.0	0404.5	5.0	7.2			
	500	HIRA	8	S	0404.0	0404.0	1.0	15.0			0
	33	UPIC	45	C	0814.5	0816.0	3.5				
	245	LEAR	49	GB	0912.0	0912.0	1.0	540.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	0912.0	0912.0	1.0	440.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0912.5	0912.8	0.5	1636.0			
	2840	PEKG	1	S	0945.0	0948.2	6.0	12.8			
	3000	IZMI	7	C	0947.7	0948.1	1.1	9.0	4.0		
	2950	GORK	2	S/F	0947.7	0948.2	0.8	6.2			
	204	IZMI	41	F	1048.4	1048.6	0.5	26.0	6.0		
	2800	PENT	1	S	1450.0	1453.0	6.0	3.0			
	2800	PENT	24	R	1741.0	1856.0	111.0U	7.0			
	410	PALE	8	S	1802.0	1802.0	1.0	500.0			QL=4 ST=2 TYP=3
	610	SGMR	49	GB	1803.0	1803.0	1.0	720.0			QL=4 ST=2 TYP=6
	1415	SGMR	8	S	1803.0	1803.0	1.0	100.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	1804.0	1804.0	U	630.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	1804.0	1804.0	U	99.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	1809.0	1809.0	5.0	56.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1809.0	1809.0	U	63.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2105.0	2105.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2245.0	2245.0	U	59.0			QL=4 ST=2 TYP=3
05	127	TORN	44	NS	0630.0E		390.0D		17.0		V=2
	204	IZMI	43	NS	0735.0		325.0D		15.0		
	245	SGMR	43	NS	1229.0	1349.0	101.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1240.0	1349.0	90.0	150.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1500.0E		360.0D		8.0		
	280	CUBA	44	NS	1500.0E		360.0D		17.0		
	245	SGMR	43	NS	1520.0	1551.0	80.0	65.0			QL=4 ST=2 TYP=1
	2840	PEKG	1	S	0512.0	0514.3	5.0	4.3			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	245	SGMR	8	S	1147.0	1147.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1147.0	1147.0	1.0	79.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1201.0	1202.0	2.0	40.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1201.0	1202.0	2.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1202.0	1202.0	1.0	42.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1202.0	1202.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1205.0	1205.0	2.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1218.0	1219.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1218.0	1219.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1225.0	1225.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1225.0	1225.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1229.0	1229.0	1.0	54.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	1458.0	1458.0	58.0	7.0	3.0		
	8800	SGMR	8	S	1503.0	1503.0	2.0	44.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1503.0	1503.0	2.0	140.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1503.0	1504.0	2.0	47.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1503.0	1503.0	1.0	140.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1503.0	1503.8	1.3	51.0	25.0		
	9500	CUBA	31	ABS	1506.2	1518.8	18.8	-10.0	-5.0		
	245	SVTO	8	S	1509.0	1510.0	2.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1510.0	1510.0	2.0	230.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1514.0	1514.0	U	80.0			QL=4 ST=2 TYP=8
	6700	CUBA	21	GRF	1515.0E	1515.0	61.0D	15.0	7.0		00L
	245	SVTO	4	S/F	1520.0	1525.0	5.0	50.0			QL=4 ST=2 TYP=3
	4995	SGMR	46	C	1526.0	1528.0	17.0	32.0			QL=4 ST=2 TYP=8
	8800	SVTO	4	S/F	1526.0	1528.0	10.0	93.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1526.2	1529.0	8.8	30.0	15.0		16R
	9500	CUBA	4	S/F	1526.4	1529.0	7.9	71.0	35.0		
	8800	SGMR	48	C	1527.0	1528.0	16.0	82.0			QL=4 ST=2 TYP=8
	15400	SVTO	4	S/F	1528.0	1528.0	3.0	170.0			QL=4 ST=2 TYP=3
	15400	SGMR	48	C	1528.0	1528.0	15.0	140.0			QL=4 ST=2 TYP=8
	245	SVTO	8	S	1538.0	1539.0	1.0	60.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1609.5	1610.0	1.0				
	9500	CUBA	1	S	1747.0	1747.8	1.3	10.0	5.0		
	6700	CUBA	21	GRF	1816.0	1831.0	84.0D	10.0	5.0		00L OFF
	9500	CUBA	2	S/F	1828.0	1829.2	6.4	28.0	14.0		
	6700	CUBA	2	S/F	1828.2	1829.2	2.1	9.0	4.0		9L
	6700	CUBA	1	S	1833.0	1833.3	0.8	5.0	2.0		7L
	2800	PENT	24	R	2112.0	2135.0	62.0	11.0			
	6700	CUBA	2	S/F	2122.0	2122.4	2.0	9.0	4.0		10L
	245	SGMR	48	C	2124.0	2124.0	U	64.0			QL=4 ST=2 TYP=8
	500	HIRA	3	S	2135.0	2135.0	2.0	10.0			0
	6700	CUBA	2	S/F	2154.0	2155.4	4.0	11.0	5.0		9L
	9500	CUBA	1	S	2154.0	2155.4	3.0	7.0	3.0		
	245	SGMR	8	S	2206.0	2206.0	U	90.0			QL=4 ST=2 TYP=3
	6700	CUBA	28	PRE	2209.0	2219.0	10.0	10.0	5.0		14L
	2800	PENT	24	R	2217.0	2223.0	15.0U	3.0			
	15400	PALE	8	S	2219.0	2220.0	2.0	460.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2219.0	2220.0	9.0	340.0			QL=4 ST=2 TYP=3
	4995	SGMR	48	C	2219.0	2220.0	7.0	50.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2219.0	2220.0	7.0	400.0			QL=4 ST=2 TYP=8
	8800	SGMR	4	S/F	2219.0	2220.0	7.0	300.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	2219.0	2220.3	9.0	115.0	57.0		9R
	4995	PALE	8	S	2220.0	2220.0	U	42.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	2220.0	2220.5	6.8	267.0	133.0		
	9500	CUBA	29	PBI	2226.8		12.2D	28.0	14.0		SUN SET
	6700	CUBA	29	PBI	2228.0		11.0D	23.0	11.0		7L
	245	LEAR	8	S	2357.0	2357.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2357.0	2357.0	U	61.0			QL=4 ST=2 TYP=3
06	127	TORN	43	NS	0910.0		170.0		2.0		V=1
	245	SGMR	43	NS	1258.0	1344.0	62.0	86.0			QL=4 ST=2 TYP=1
	280	CUBA	44	NS	1310.0E		470.0D		18.0		
	235	CUBA	44	NS	1310.0E		520.0D		7.0		
	245	SGMR	43	NS	1624.0	1626.0	456.0	150.0			QL=4 ST=3 TYP=1
	245	PALE	43	NS	1706.0	1716.0	51.0	62.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2116.0	2325.0	286.0	310.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2120.0	2123.0	131.0	170.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2312.0	2312.0	635.0	210.0			QL=4 ST=2 TYP=1

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
06	245	LEAR	8	S	0000.0	0001.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0009.0	0010.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0111.0	0114.0	3.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0135.0	0137.0	3.0	170.0			QL=4 ST=2 TYP=3
	2950	GORK	1	S	0600.3	0600.5	0.6	4.8			
	3000	IZMI	1	S	0600.4	0600.6	0.5	10.0	5.0		
	9100	GORK	4	S/F	0724.0	0726.3	3.7	50.0			
	9100	GORK	29	PBI	0727.7	0727.7	4.8	1.9			
	900	GORK	41	F	0727.9	0728.1	4.6	16.0			
	900	GORK	41	F	0727.9	0728.5		43.0			
	245	SVTO	8	S	1158.0	1158.0	1.0	95.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1158.0	1158.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1258.0	1258.0	U	58.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1506.0	1606.0	83.0	10.0			
	6700	CUBA	20	GRF	1512.0	1525.0	81.0	17.0	8.0		6R
	245	SVTO	8	S	1626.0	1627.0	1.0	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1630.0	1630.0	U	74.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1701.0	1701.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1701.0	1701.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1715.0	1716.0	1.0	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1834.0	1834.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2015.0	2015.0	U	54.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	2058.0	2058.0	U	62.0			QL=4 ST=2 TYP=3
07	245	PALE	43	NS	0337.0	0420.0	63.0	230.0			QL=4 ST=2 TYP=1
	204	IZMI	43	NS	0500.0		420.0D		30.0		
	245	SVTO	43	NS	0505.0	0521.0	165.0	170.0			QL=2 ST=2 TYP=1
	245	SGMR	43	NS	1044.0	1223.0	130.0	75.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1310.0E		470.0D		9.0		
	280	CUBA	44	NS	1310.0E		470.0D		17.0		
	8800	LEAR	8	S	0011.0	0012.0	1.0	46.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0011.0	0012.0	1.0	55.0			QL=4 ST=2 TYP=3
	9100	GORK	45	C	0726.3	0729.0	8.0	170.0			
	9100	GORK	45	C	0726.3	0732.3		64.0			
	8800	SVTO	4	S/F	0728.0	0729.0	8.0	130.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	0728.0	0729.0	8.0	330.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0728.0	0729.0	15.0	150.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0728.0	0729.0	15.0	360.0			QL=4 ST=2 TYP=3
	9100	GORK	29	PBI	0734.3	0734.5	23.9	50.0			
	900	GORK	42	SER	0808.3	0854.0		16.0			
	900	GORK	42	SER	0808.3	0822.6	74.3	16.0			
	410	LEAR	8	S	0827.0	0827.0	1.0	58.0			QL=4 ST=2 TYP=3
	9100	GORK	22	GRF	0843.0	0918.3	60.3	13.0			
	9100	GORK	22	GRF	0843.0	0926.6		20.0			
	9100	GORK	2	S/F	1034.4	1035.2	3.3	19.0			
	9100	GORK	2	S/F	1045.4	1045.6	2.0	15.0			
	8800	SGMR	4	S/F	1254.0	1255.0	3.0	130.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1254.0	1255.0	3.0	280.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1254.0	1255.0	2.0	130.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1254.0	1255.0	2.0	270.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1254.8	1255.1	3.2	125.0	62.0		
	9500	CUBA	2	S/F	1334.5	1334.7	0.7	29.0	14.0		
	2800	PENT	1	S	1438.0	1442.0	8.0	9.0			
	8800	SVTO	4	S/F	1441.0	1442.0	3.0	130.0			QL=4 ST=2 TYP=3
	6700	CUBA	3	S	1441.2	1442.8	4.8	113.0	56.0		9L
	9500	CUBA	3	S	1441.5	1442.8	2.7	76.0	38.0		
	4995	SGMR	8	S	1442.0	1442.0	1.0	86.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1442.0	1442.0	1.0	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1442.0	1442.0	1.0	34.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1527.0	1555.0	58.0	12.0			
	6700	CUBA	1	S	1625.8	1626.7	2.2	14.0	7.0		32R
	8800	SGMR	4	S/F	1626.0	1626.0	5.0	90.0			QL=4 ST=3 TYP=3
	15400	SGMR	4	S/F	1626.0	1626.0	3.0	240.0			QL=4 ST=3 TYP=3
	8800	SVTO	8	S	1626.0	1626.0	1.0	92.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1626.0	1626.0	U	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1626.2	1626.8	1.8	86.0	43.0		
	6700	CUBA	1	S	1833.9	1854.5	22.1	31.0	15.0		10L
	2800	PENT	8	S	1850.0	1854.0	8.0	46.0			
	610	SGMR	48	C	1853.0	1854.0	3.0	130.0			QL=4 ST=3 TYP=8

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	410	SGMR	46	C	1854.0	1854.0	2.0	11.0			QL=4 ST=3 TYP=8
	2695	SGMR	46	C	1854.0	1854.0	1.0	46.0			QL=4 ST=3 TYP=8
	4995	SGMR	46	C	1854.0	1854.0	2.0	40.0			QL=4 ST=3 TYP=8
	8800	SGMR	46	C	1854.0	1854.0	2.0	40.0			QL=4 ST=3 TYP=8
	15400	SGMR	46	C	1854.0	1854.0	2.0	32.0			QL=4 ST=3 TYP=8
	245	SGMR	8	S	1854.0	1854.0	2.0	60.0			QL=4 ST=3 TYP=3
	1415	SGMR	8	S	1854.0	1854.0	2.0	21.0			QL=4 ST=3 TYP=3
	2840	PEKG	1	S	2323.0	2326.6	6.0	9.1			
08	204	IZMI	44	NS	0500.0E		152.0D		10.0		
	204	IZMI	44	NS	0732.0E		268.0D		25.0		
	235	CUBA	44	NS	1325.0E		455.0D		6.0		
	280	CUBA	44	NS	1325.0E		455.0D		15.0		
	127	TORN	44	NS	1330.0E		90.0D		40.0		V=2
	4995	LEAR	8	S	0312.0	0313.0	1.0	36.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0312.0	0312.0	1.0	41.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	0724.9	0755.7	55.5	14.0	4.0		
	9100	GORK	21	GRF	0745.3	0751.8	17.1	27.0			
	2950	GORK	20	GRF	0749.2	0755.0	12.5	6.0			
	9100	GORK	4	S/F	0757.2	0757.3	0.2	43.0			
	245	SGMR	48	C	1238.0	1238.0	U	56.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1301.0	1301.0	U	76.0			QL=4 ST=2 TYP=3
	2800	PENT	41	F	1504.0	1553.0	64.0	6.0			
	610	SGMR	8	S	1553.0	1553.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1638.0	1638.0	U	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1641.0	1641.0	U	150.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1652.0	1653.0	5.0	55.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1652.0	1653.0	3.0	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1652.0	1653.0	8.0	50.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1652.0	1654.1	5.0	52.0	26.0		3L
	9500	CUBA	2	S/F	1652.0	1653.6	3.0	45.0	22.0		
	15400	SGMR	46	C	1653.0	1653.0	4.0	32.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1653.0	1653.0	4.0	44.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1653.0	1654.0	4.0	83.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1653.0	1656.0	7.0	90.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1653.0	1657.0	7.0	65.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1957.5	1959.1	2.5	37.0	18.0		4R
	9500	CUBA	2	S/F	1958.0	1958.9	2.0	28.0	14.0		
09	204	IZMI	43	NS	0603.0		359.7D		10.0		
	127	TORN	44	NS	0700.0E		410.0D		16.0		V=1?,DISTURBED
	235	CUBA	44	NS	1305.0E		405.0D		7.0		
	280	CUBA	44	NS	1305.0E		525.0D		15.0		
	410	SGMR	43	NS	2227.0	2238.0	23.0	120.0			QL=4 ST=2 TYP=1
	2840	PEKG	20	GRF	0312.0E	0314.8	24.0D	12.8			
	204	IZMI	7	C	0606.2	0606.3	0.2	20.0			
	204	IZMI	25	R	1113.0		47.0D		20.0		
	3000	IZMI	22	GRF	1118.5	1118.9	1.7	29.0	9.0		
	9500	CUBA	1	S	1248.0	1253.5	7.5	15.0	7.0		
	245	SGMR	48	C	1524.0	1524.0	1.0	130.0			QL=4 ST=2 TYP=8
	410	SGMR	8	S	1524.0	1524.0	U	50.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1524.0	1524.0	U	95.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1524.0	1524.0	U	95.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1817.0	1834.0	74.0U	14.0			
	9500	CUBA	21	GRF	1826.0	1839.0	47.0	30.0	15.0		
	6700	CUBA	20	GRF	1826.0	1835.0	86.0D	26.0	13.0		3R OFF
10	235	CUBA	44	NS	1305.0E		525.0D		7.0		
	280	CUBA	44	NS	1305.0E		525.0D		12.0		
	2800	PENT	3	S	0127.0	0133.0	16.0	24.0			
	2840	PEKG	45	C	0129.0	0133.2	13.0	30.9			
	245	PALE	49	GB	0131.0	0132.0	5.0	1100.0			QL=4 ST=2 TYP=6
	610	PALE	4	S/F	0131.0	0133.0	5.0	70.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0131.0	0133.0	5.0	470.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0131.0	0132.0	5.0	64.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0131.0	0133.0	5.0	52.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0131.0	0133.0	5.0	44.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	0131.0	0133.0	5.0	29.0			QL=4 ST=2 TYP=3
	2800	HIRA	4	S/F	0132.0	0133.0	9.0	30.0			0

S O L A R R A D I O E M I S S I O N
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
10	245	LEAR	49	GB	0132.0	0132.0	1.0	820.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0132.0	0133.0	1.0	490.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0132.0	0133.0	3.0	46.0			QL=4 ST=2 TYP=3
	500	HIRA	4	S/F	0132.0	0135.0	11.0	30.0			0
	4995	LEAR	8	S	0133.0	0133.0	1.0	35.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0133.0	0133.0	1.0	26.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0453.0	0456.3	6.0	11.5			
	2950	GORK	1	S	0455.2	0455.9	1.0	11.0			
	204	IZMI	46	C	0455.3	0455.7	1.1	109.0			
	900	GORK	45	C	0455.4	0456.1	1.8	18.0			
	900	GORK	45	C	0455.4	0455.8	1.3	19.0			
	600	GORK	46	C	0455.5	0456.3		12.0			
	600	GORK	46	C	0455.5	0455.9	1.4	12.0			
	204	IZMI	7	C	0630.9	0631.1	0.2	9.0			
	204	IZMI	7	C	0636.9	0637.0	0.1	13.0			
	204	IZMI	42	SER	0723.6	0723.8	0.6	18.0			
	33	UPIC	42	SER	0825.0		43.0				
	204	IZMI	7	C	0825.2	0825.3	0.3	19.0			
	204	IZMI	46	C	0831.7	0832.2	0.9	107.0			
	245	LEAR	8	S	0836.0	0837.0	1.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0836.8	0837.0	0.3	57.0			
	245	SVTO	8	S	0837.0	0837.0	U	140.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1838.0	1843.0	9.0	10.0			
11	204	IZMI	43	NS	0904.0		173.0D		10.0		
	235	CUBA	44	NS	1305.0E		415.0D		7.0		
	280	CUBA	44	NS	1305.0E		415.0D		14.0		
	2800	PENT	8	S	0111.0	0117.0	14.0	62.0			
	2840	PEKG	3	S	0113.0	0117.5	11.0	74.2			
	2800	HIRA	4	S/F	0116.0	0117.0	5.0	70.0			0
	500	HIRA	7	C	0116.0	0119.0	5.0	40.0			0
	410	LEAR	49	GB	0116.0	0117.0	4.0	570.0			QL=4 ST=2 TYP=6
	2695	LEAR	8	S	0116.0	0117.0	2.0	67.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	0116.0	0117.0	3.0	570.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0117.0	0117.0	1.0	74.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0117.0	0119.0	3.0	50.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0119.0	0119.0	U	27.0			QL=4 ST=2 TYP=3
	9100	GORK	1	S	0816.7	0817.0	0.5	11.0			
	900	GORK	4	S/F	0817.0	0817.3	0.5	93.0			
	900	GORK	41	F	0847.5	0850.2		40.0			
	900	GORK	41	F	0847.5	0847.8	15.4	50.0			
	9100	GORK	8	S	0850.2	0850.4	0.5	60.0			
	33	UPIC	46	C	1003.0	1003.5	2.5				
	6700	CUBA	23	GRF	1935.0	2020.0	63.0	5.0	2.0		9R
12	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		20.0		
	245	LEAR	49	GB	0330.0	0330.0	1.0	510.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0330.0	0330.0	1.0	830.0			QL=4 ST=2 TYP=6
	204	IZMI	42	SER	0506.1	0508.1	2.6	57.0			
	245	LEAR	8	S	0507.0	0508.0	1.0	280.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0507.0	0508.0	1.0	260.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0646.0	0646.1	0.2	30.0			
	204	IZMI	42	SER	0731.8	0734.6	3.8	157.0			
	245	LEAR	8	S	0734.0	0734.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0734.0	0734.0	U	200.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0734.0	0735.5	2.5				
	204	IZMI	42	SER	0743.7	0743.7	1.9	143.0			
	204	IZMI	42	SER	0905.4	0908.6	3.5	36.0			
	245	SVTO	8	S	1237.0	1237.0	U	220.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1237.0	1237.0	U	37.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1242.0	1243.0	2.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1324.0	1324.0	U	62.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1324.0	1324.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1857.0	1857.0	3.0	620.0			QL=4 ST=2 TYP=8
13	280	CUBA	44	NS	1300.0E		520.0D		17.0		
	235	CUBA	44	NS	1315.0E		505.0D		6.0		
	410	SVTO	8	S	0524.0	0524.0	1.0	53.0			QL=4 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
13	204	IZMI	42	SER	0524.5	0524.9	3.5	92.0			
	33	UPIC	45	C	1410.0	1410.2	1.5				
	6700	CUBA	1	S	1424.5	1425.2	2.9	5.0	2.0		0OL
	6700	CUBA	1	S	1920.3	1920.7	1.7	28.0	14.0		4L
	9500	CUBA	1	S	1920.3	1920.7	1.1	23.0	11.0		
	235	CUBA	6	S	1925.6	1925.8	1.2	26.0	13.0		
	280	CUBA	6	S	1925.6	1925.8	1.2	34.0	17.0		
	9500	CUBA	1	S	1958.5	1958.8	0.5	8.0	4.0		
14	235	CUBA	44	NS	1330.0E		450.0D		6.0		
	280	CUBA	44	NS	1330.0E		450.0D		10.0		
	900	GORK	42	SER	0736.6	0824.5		14.0			
	900	GORK	42	SER	0736.6	0736.8	67.1	14.0			
	2840	PEKG	45	C	0937.0	0940.7	22.0	83.8			
	600	GORK	41	F	0937.1	0938.1	4.4	5.3			
	600	GORK	41	F	0937.1	0940.8		5.3			
	2950	GORK	8	S	0938.2	0938.4	0.4	18.0			
	3000	IZMI	46	C	0938.2	0940.6	20.4	42.0	9.0		
	2950	GORK	46	C	0939.3	0943.1		32.0			
	2950	GORK	46	C	0939.3	0941.2	10.1	29.0			
	900	GORK	46	C	0940.1	0944.2		30.0			
	900	GORK	46	C	0940.1	0940.9	7.3	23.0			
	9100	GORK	46	C	0940.2	0941.2	5.8	12.0			
	9100	GORK	46	C	0940.2	0943.7		20.0			
	600	GORK	46	C	0943.1	0944.3	4.9	25.0			
	600	GORK	46	C	0943.1	0945.7		19.0			
	6700	CUBA	23	GRF	1438.0	1522.0	52.0	12.0	6.0		6L
	245	PALE	8	S	2102.0	2103.0	1.0	51.0			QL=4 ST=2 TYP=3
15	235	CUBA	44	NS	1405.0E		460.0D		4.0		
	900	GORK	46	C	0549.2	0549.4	2.0	19.0			
	600	GORK	46	C	0549.2	0549.5	0.4	14.0			
	900	GORK	46	C	0549.2	0549.9		9.5			
	4995	SGMR	8	S	1241.0	1241.0	U	44.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1241.0	1241.0	U	21.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1241.0	1241.0	U	47.0			QL=4 ST=2 TYP=3
16	235	CUBA	44	NS	1500.0E		360.0D		24.0		
	280	CUBA	44	NS	1500.0E		410.0D		12.0		
	900	GORK	8	S	0554.4	0554.5	0.2	15.0			
	600	GORK	8	S	0557.3	0557.4	0.2	26.0			
	900	GORK	4	S/F	0652.8	0653.6	0.9	53.0			
	2840	PEKG	3	S	0942.0	0957.3	21.0	26.9			
	2950	GORK	4	S/F	0953.6	0955.2	5.7	48.0			
	3000	IZMI	20	GRF	0954.1	0957.2	4.0	23.0	9.0		
	900	GORK	2	S/F	0954.7	0957.2	4.3	4.0			
	9100	GORK	1	S	0955.0	0956.0	2.5	20.0			
	33	UPIC	46	C	0955.0	0955.8	3.0				
	204	IZMI	42	SER	0955.2	0955.3	3.6	35.0			
17	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		14.0		
	2800	PENT	1	S	0005.0	0008.0	8.0	6.0			
	2840	PEKG	1	S	0007.0	0008.7	6.7	4.5			
	245	SVTO	8	S	0547.0	0547.0	U	120.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0726.0	0728.4	4.0	4.9			
	245	LEAR	8	S	0739.0	0739.0	1.0	54.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0739.3	0739.5	2.6	33.0			
	500	HIRA	8	S	0741.0	0741.0	1.0	10.0			0
18	245	LEAR	8	S	2353.0	2353.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2353.0	2354.0	1.0	94.0			QL=4 ST=2 TYP=3
19	235	CUBA	44	NS	1305.0E		525.0D		6.0		
	280	CUBA	44	NS	1305.0E		525.0D		14.0		
	410	SGMR	8	S	1956.0	1957.0	1.0	290.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1957.0	1957.0	U	320.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1957.0	1957.0	U	49.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1957.0	1957.0	U	44.0			QL=4 ST=2 TYP=3

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20	235	CUBA	44	NS	1300.0E		495.0D		7.0		
	280	CUBA	44	NS	1300.0E		495.0D		12.0		
	900	GORK	42	SER	0728.4	0728.6	14.4	14.0			
	900	GORK	42	SER	0728.4	0739.8		19.0			
	600	GORK	2	S/F	0740.8	0741.0	0.5	10.0			
	2950	GORK	2	S/F	0807.3	0808.3	1.4	5.1			
	410	SGMR	8	S	1408.0	1408.0	U	60.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1645.8	1646.0	1.2	12.0	6.0		28L
	9500	CUBA	1	S	1645.8	1646.0	0.7	7.0	3.0		
	410	SGMR	8	S	1810.0	1811.0	1.0	280.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1811.0	1811.0	U	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1811.0	1811.0	U	50.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1911.0	1921.0	21.0	80.0			
	9500	CUBA	1	S	1920.5	1921.3	3.4	31.0	15.0		
	1415	PALE	8	S	1921.0	1921.0	1.0	28.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1921.0	1921.0	1.0	120.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1921.0	1921.0	1.0	63.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1921.0	1923.0	3.0	2000.0			QL=4 ST=2 TYP=6
	1415	SGMR	8	S	1921.0	1921.0	1.0	37.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1921.0	1921.0	1.0	72.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1921.0	1921.0	1.0	80.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1921.0	1921.0	U	41.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1922.0	1924.0	3.0	1800.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	1923.0	1925.0	4.0	8100.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1923.0	1925.0	4.0	8300.0			QL=4 ST=2 TYP=6
	2800	PENT	41	F	2333.0	2342.0	26.0	10.0			
	2840	PEKG	5	S	2335.0	2337.6	5.0	10.1			
	2840	PEKG	1	S	2353.0	2355.2	4.0	4.8			
21	235	CUBA	44	NS	1315.0E		515.0D		6.0		
	280	CUBA	44	NS	1315.0E		515.0D		12.0		
	900	GORK	46	C	0722.0	0723.2		42.0			
	900	GORK	46	C	0722.0	0722.5	1.4	16.0			
	900	GORK	4	S/F	0732.3	0732.6	1.3	30.0			
	245	LEAR	8	S	0836.0	0837.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0837.0	0837.0	U	110.0			QL=4 ST=3 TYP=3
	204	IZMI	41	F	1029.8	1029.9	0.4	26.0			
	2840	PEKG	45	C	1033.0	1037.4	16.0	96.2			
	245	SGMR	4	S/F	1036.0	1040.0	5.0	230.0			QL=2 ST=2 TYP=3
	410	SGMR	4	S/F	1036.0	1038.0	5.0	200.0			QL=2 ST=2 TYP=3
	1415	SGMR	4	S/F	1036.0	1037.0	5.0	49.0			QL=2 ST=2 TYP=3
	2695	SGMR	4	S/F	1036.0	1037.0	5.0	120.0			QL=2 ST=2 TYP=3
	4995	SGMR	4	S/F	1036.0	1037.0	5.0	190.0			QL=2 ST=2 TYP=3
	8800	SGMR	4	S/F	1036.0	1037.0	5.0	130.0			QL=2 ST=2 TYP=3
	15400	SVTO	8	S	1036.0	1037.0	1.0	70.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1036.0	1037.0	3.0	60.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1036.0	1037.0	4.0	110.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1036.0	1037.0	4.0	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1036.0	1037.0	3.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1036.0E	1036.0U	1.0D	130.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1036.3	1037.0	2.3	208.0			
	3000	IZMI	45	C	1036.3	1037.3	7.0	13.0	4.0		
	410	SVTO	8	S	1039.0	1039.0	1.0	130.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1040.0	1040.0	1.0	350.0			QL=4 ST=2 TYP=3
	204	IZMI	46	C	1040.4	1041.9	4.3	770.0			
	2800	PENT	1	S	1851.0	1853.0	4.0	4.0			
	2800	PENT	29	PBI	2144.0	2155.0	48.0U	176.0			
	410	PALE	48	C	2154.0	2157.0	4.0	1600.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	2154.0	2157.0	4.0	1800.0			QL=4 ST=2 TYP=8
	610	SGMR	8	S	2154.0	2154.0	U	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2154.0	2155.0	2.0	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	2154.0	2155.3	3.5	34.0	17.0		
	6700	CUBA	3	S	2154.0	2155.5	6.0	35.0	17.0		5L
	1415	PALE	8	S	2155.0	2155.0	2.0	69.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2155.0	2155.0	2.0	150.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2155.0	2155.0	1.0	98.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	2155.0	2155.0	1.0	67.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2155.0	2155.0	1.0	170.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2155.0	2155.0	U	43.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
21	245	PALE	49	GB	2158.0	2200.0	2.0	1800.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2158.0	2159.0	2.0	1500.0			QL=4 ST=2 TYP=6
	9500	CUBA	1	S	2158.0	2158.3	1.7	4.0	2.0		
	410	SGMR	4	S/F	2206.0	2207.0	7.0	77.0			QL=4 ST=2 TYP=3
22	235	CUBA	44	NS	1305.0E		475.0D		6.0		
	280	CUBA	44	NS	1305.0E		475.0D		10.0		
	204	IZMI	7	C	0523.8	0523.9	0.4	14.0			
	204	IZMI	25	R	0738.6	0748.9	20.4	27.0			
	600	GORK	40	F	0739.3	0742.2	60.2	120.0			
	600	GORK	40	F	0739.3	0805.6		70.0			
	900	GORK	41	F	0739.5	0753.0		13.0			
	900	GORK	41	F	0739.5	0742.2	30.0	44.0			
	600	GORK	41	F	0906.9	0913.1	20.5	35.0			
	600	GORK	41	F	0906.9	0926.9		30.0			
	900	GORK	41	F	0912.0	0924.0		68.0			
	900	GORK	41	F	0912.0	0913.0	15.0	12.0			
	2840	PEKG	45	C	0932.0	0937.2	13.8	12.8			
	9100	GORK	1	S	0935.3	0936.0	3.7	12.9			
	2950	GORK	1	S	0935.4	0936.1	3.0	8.1			
	3000	IZMI	20	GRF	0935.5	0936.3	2.4	13.0	8.0		
	8800	SGMR	8	S	1556.0	1557.0	1.0	60.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1556.0	1557.0	1.0	21.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1556.0	1557.0	1.0	77.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1556.0	1557.0	1.0	37.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1556.0	1557.2	3.0	49.0	24.0		
	6700	CUBA	1	S	1557.0	1557.2	2.0	28.0	14.0		8R
	2800	PENT	24	R	1810.0	1932.0	82.0U	3.0			
	9500	CUBA	1	S	1846.0	1846.3	2.0	33.0	16.0		
	9500	CUBA	1	S	2114.0	2115.5	2.2	13.0	6.0		
	6700	CUBA	1	S	2114.4	2115.4	2.1	11.0	5.0		11R
	2800	PENT	1	S	2144.0	2149.0	10.0	6.0			
	2840	PEKG	3	S	2217.0	2222.5	10.0	19.3			
	245	PALE	49	GB	2224.0	2224.0	1.0	660.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	2224.0	2224.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2224.0	2224.0	U	360.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2224.0	2224.0	U	33.0			QL=4 ST=2 TYP=3
23	235	CUBA	44	NS	1340.0E		320.0D		7.0		
	280	CUBA	44	NS	1340.0E		320.0D		15.0		
	15400	LEAR	8	S	0026.0	0027.0	2.0	79.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0027.0	0027.0	U	32.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0510.0	0511.0	6.0	82.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	0510.0	0511.0	3.0	99.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0511.0	0511.0	5.0	88.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0511.0	0511.0	2.0	91.0			QL=4 ST=2 TYP=3
	9100	GORK	20	GRF	0519.8	0522.5	8.0	12.0			
	900	GORK	46	C	0612.3	0613.0	1.5	23.0			
	900	GORK	46	C	0612.3	0613.2		22.0			
	9100	GORK	3	S	0613.6	0613.7	0.2	18.0			
	204	IZMI	42	SER	0628.6	0628.6	0.6	34.0			
	9100	GORK	2	S/F	0633.3	0634.1	2.2	16.0			
	9100	GORK	3	S	0656.7	0657.7	1.0	37.0			
	9100	GORK	3	S	0944.3	0944.8	1.9	38.0			
	2840	PEKG	5	S	0950.0	0952.0	5.0	14.0			
	1415	SGMR	8	S	1436.0	1437.0	2.0	190.0			QL=4 ST=3 TYP=3
	1415	SVTO	8	S	1436.0	1437.0	2.0	230.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1437.0	1437.0	U	76.0			QL=4 ST=3 TYP=3
	2800	PENT	24	R	1531.0	1629.0	60.0U	4.0			
	2800	PENT	40	F	1744.0	1755.0	50.0	20.0			
	6700	CUBA	3	S	1753.4	1754.8	4.6	85.0	42.0		00L
	4995	PALE	8	S	1754.0	1754.0	2.0	81.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1754.0	1754.0	2.0	110.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1754.0	1754.0	1.0	68.0			QL=4 ST=2 TYP=3
	15400	SGMR	48	C	1754.0	1754.0	3.0	92.0			QL=4 ST=2 TYP=8
	4995	SGMR	4	S/F	1754.0	1754.0	3.0	60.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1754.0	1754.0	3.0	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	3	S	1754.2	1754.8	1.9	72.0	36.0		
	410	PALE	8	S	1755.0	1756.0	1.0	200.0			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

AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	2695	SGMR	8	S	1755.0	1755.0	U	30.0			QL=4 ST=2 TYP=3
24	235	CUBA	44	NS	1320.0E		340.0D		6.0		
	280	CUBA	44	NS	1320.0E		340.0D		12.0		
	610	PALE	48	C	0002.0	0005.0	8.0	76.0			QL=4 ST=2 TYP=8
	610	LEAR	4	S/F	0004.0	0005.0	6.0	68.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0005.0	0008.0	6.0	80.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0005.0	0008.0	7.0	110.0			QL=4 ST=2 TYP=3
	9100	GORK	23	GRF	0612.0	0923.1		35.0			
	9100	GORK	23	GRF	0612.0	0654.8	264.0	22.0			
	500	HIRA	8	S	0622.0	0622.0	1.0	20.0			0
	9100	GORK	4	S/F	0622.9	0624.2	3.5	43.0			
	8800	SVTO	8	S	0623.0	0624.0	1.0	54.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0623.0	0624.0	1.0	38.0			QL=4 ST=2 TYP=3
	3000	IZMI	5	S	0623.6	0624.4	1.3	10.0	5.0		
	4995	SVTO	8	S	0624.0	0624.0	U	26.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	1017.3	1017.3	0.1	24.0			
	204	IZMI	7	C	1100.6	1100.7	0.2	9.0			
	204	IZMI	42	SER	1111.9	1113.6	2.0	12.0			
	204	IZMI	46	C	1114.0	1116.2	3.8	270.0			
	245	SGMR	8	S	1115.0	1116.0	1.0	79.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1115.0	1116.0	1.0	90.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1125.9	1127.3	6.1	23.0			
	33	UPIC	46	C	1126.0	1127.5	6.0				
	245	SGMR	8	S	1129.0	1129.0	1.0	1200.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1244.0	1353.0	119.0	21.0	10.0		30L
	33	UPIC	46	C	1311.5	1318.0	7.5				
	6700	CUBA	1	S	1316.5	1317.0	2.8	49.0	24.0		1R
	9500	CUBA	4	S/F	1331.6	1333.2	6.4	91.0	45.0		
	1415	SGMR	4	S/F	1332.0	1333.0	5.0	80.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1332.0	1333.0	5.0	49.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1332.0	1333.0	5.0	97.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1332.0	1333.0	5.0	120.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1332.0	1332.0	5.0	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1332.0	1332.0	2.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1332.0	1333.0	3.0	49.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1332.0	1333.0	4.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1332.0	1333.0	5.0	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1332.0	1333.2	6.0	140.0	70.0		6L
	1415	SVTO	8	S	1333.0	1333.0	U	79.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1427.4	1428.3	2.2	9.0	4.0		
	6700	CUBA	1	S	1428.0	1428.8	2.0	4.0	2.0		10L
	2800	PENT	8	S	1510.0	1512.0	4.0	12.0			
	6700	CUBA	21	GRF	1659.0	1705.0	16.0	16.0	8.0		5L
	6700	CUBA	2	S/F	1700.0	1702.0	2.8	16.0	8.0		0L
	9500	CUBA	21	GRF	2015.0	2047.0	135.0D	41.0	20.0		SUN SET
	6700	CUBA	21	GRF	2016.0	2047.0	134.0	34.0	17.0		9L
	6700	CUBA	45	C	2016.8	2018.7	7.2	15.0	7.0		10L
	8800	PALE	48	C	2017.0	2040.0	36.0	330.0			QL=4 ST=2 TYP=8
	9500	CUBA	4	S/F	2017.0	2018.3	6.3	25.0	12.0		
	245	PALE	8	S	2022.0	2022.0	1.0	100.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	2030.4	2031.0	1.1	11.0	5.0		7L
	9500	CUBA	1	S	2030.8	2031.0	0.6	15.0	7.0		
	2800	PENT	29	PBI	2031.0	2040.0	43.0	104.0			
	1415	PALE	48	C	2033.0	2043.0	11.0	880.0			QL=4 ST=2 TYP=8
	9500	CUBA	4	S/F	2036.0	2040.1	11.0	212.0	106.0		
	1415	SGMR	48	C	2037.0	2043.0	9.0	990.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2037.0	2039.0	9.0	330.0			QL=4 ST=2 TYP=8
	4995	PALE	4	S/F	2038.0	2040.0	9.0	200.0			QL=4 ST=2 TYP=3
	4995	SGMR	48	C	2038.0	2039.0	8.0	190.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2038.0	2039.0	8.0	230.0			QL=4 ST=2 TYP=8
	2695	PALE	4	S/F	2039.0	2040.0	6.0	120.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2039.0	2040.0	5.0	160.0			QL=4 ST=2 TYP=3
	610	SGMR	46	C	2039.0	2039.0	7.0	29.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	2039.0	2040.0	7.0	100.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	2040.0	2040.0	U	30.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	2043.0	2044.0	3.0	50.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	2044.0	2047.0	3.0	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	2115.0	2116.6	3.3	14.0	7.0		3L

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	9500	CUBA	2	S/F	2115.0	2116.8	3.0	17.0	8.0		
	6700	CUBA	4	S/F	2136.4	2140.0	9.6	222.0	111.0		12L
	8800	PALE	20	GRF	2243.0	2249.0	19.0	67.0			QL=4 ST=2 TYP=2
	2840	PEKG	20	GRF	2243.0	2248.0	11.0	11.5			
	2800	HIRA	1	S	2246.0	2248.0	7.0	20.0			0
	4995	PALE	8	S	2247.0	2248.0	1.0	36.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2338.0	0001.0	25.0	280.0			
	2840	PEKG	3	S	2347.0	0001.6	36.0	320.6			
	8800	PALE	48	C	2348.0	0001.0	43.0	1700.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	2350.0	0001.0	57.0	1700.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	2350.0	0001.0	57.0	1700.0			QL=4 ST=2 TYP=8
	1415	LEAR	4	S/F	2351.0	2355.0	6.0	490.0			QL=4 ST=2 TYP=3
	4995	LEAR	49	GB	2351.0	0001.0	56.0	760.0			QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	2352.0	2355.0	4.0	470.0			QL=4 ST=2 TYP=3
	4995	PALE	49	GB	2352.0	0001.0	40.0	770.0			QL=4 ST=2 TYP=6
	2800	HIRA	4	S/F	2358.0	0002.0	14.0	280.0			0
	2695	LEAR	4	S/F	2358.0	0001.0	14.0	280.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2358.0	0001.0	32.0	1700.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	2359.0	0001.0	10.0	250.0			QL=4 ST=2 TYP=3
25	204	IZMI	43	NS	0813.0		63.0		5.0		
	235	CUBA	44	NS	1310.0E		470.0D		7.0		
	280	CUBA	44	NS	1310.0E		470.0D		13.0		
	9500	CUBA	47	GB		1641.3		1938.0	969.0		
	6700	CUBA	47	GB		1614.5		4267.0	2133.0		34L
	500	HIRA	4	S/F	0000.0	0006.0	15.0	30.0			0
	500	HIRA	8	S	0045.0	0045.0	1.0	10.0			0
	500	HIRA	8	S	0240.0	0240.0	1.0	10.0			0
	500	HIRA	8	S	0426.0	0426.0	1.0	40.0			0
	9100	GORK	1	S	0625.0	0625.4	0.8	8.0			
	9100	GORK	3	S	0636.3	0636.5	0.6	13.0			
	2950	GORK	20	GRF	0704.5	0719.3	24.6	10.0			
	3000	IZMI	20	GRF	0719.1	0725.8	9.4	8.0	4.0		
	500	HIRA	8	S	0810.0	0810.0	1.0	15.0			0
	245	SVTO	8	S	1052.0	1052.0	U	74.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1324.6	1324.8	0.9	9.0	4.0		5R
	9500	CUBA	1	S	1325.6	1325.8	0.6	14.0	7.0		
	6700	CUBA	47	GB	1614.0	1627.2	36.2	3804.0	1902.0		63L
	280	CUBA	49	GB	1621.0	1641.2	46.6	2957.0	1478.0		
	235	CUBA	49	GB	1621.8	1641.2	46.6	2704.0	1352.0		
	9500	CUBA	47	GB	1623.4	1631.8	27.9	3784.0	1892.0		
	1415	SVTO	49	GB	1624.0	1632.0	40.0	5500.0			QL=4 ST=2 TYP=6
	2695	SVTO	49	GB	1624.0	1631.0	49.0	7900.0			QL=4 ST=2 TYP=6
	4995	SVTO	49	GB	1624.0	1631.0	49.0	11000.0			QL=4 ST=2 TYP=6
	8800	SVTO	49	GB	1624.0	1631.0	49.0	15000.0			QL=4 ST=2 TYP=6
	610	SGMR	48	C	1624.0	1632.0	66.0	3700.0			QL=4 ST=2 TYP=8
	410	SGMR	49	GB	1624.0	1632.0	66.0	2100.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	1624.0	1632.0	66.0	5900.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	1624.0	1631.0	66.0	8100.0			QL=4 ST=2 TYP=6
	4995	SGMR	49	GB	1624.0	1631.0	66.0	9000.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1624.0	1631.0	66.0	14000.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1625.0	1632.0	32.0	1500.0			QL=4 ST=2 TYP=6
	15400	SVTO	49	GB	1626.0	1631.0	47.0	32000.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1627.0	1632.0	55.0	36000.0			QL=4 ST=2 TYP=6
	15400	SGMR	49	GB	1627.0	1631.0	63.0	41000.0			QL=4 ST=2 TYP=6
	610	SVTO	48	C	1628.0	1632.0	29.0	2000.0			QL=4 ST=2 TYP=8
	245	SVTO	49	GB	1629.0	1632.0	34.0	25000.0			QL=4 ST=2 TYP=6
	410	PALE	48	C	1630.0	1642.0	450.0	420.0			QL=2 ST=2 TYP=8
	245	PALE	49	GB	1630.0	1632.0	450.0	12000.0			QL=2 ST=2 TYP=6
	610	PALE	4	S/F	1631.0	1632.0	449.0	110.0			QL=2 ST=2 TYP=3
	1415	PALE	48	C	1633.0	1643.0	447.0	450.0			QL=2 ST=2 TYP=8
	2695	PALE	48	C	1636.0	1643.0	444.0	500.0			QL=2 ST=2 TYP=8
	6700	CUBA	30	PBI	1650.2	1650.2	339.8D	514.0	257.0		3L S.SET
	4995	PALE	4	S/F	1651.0	1652.0	429.0	280.0			QL=2 ST=2 TYP=3
	9500	CUBA	29	PBI	1651.3		257.3	280.0	140.0		
	245	SGMR	4	S/F	1732.0	1733.0	4.0	96.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1732.0	1733.2	4.4	9.0	4.0		50L
	245	SGMR	48	C	1855.0	1926.0	44.0	150.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	1858.0	1926.0	38.0	180.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION
Outstanding Occurrences

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	410	PALE	48	C	1859.0	1928.0	48.0	180.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1859.0	1927.0	40.0	170.0			QL=4 ST=2 TYP=8
	9500	CUBA	2	S/F	1859.7	1900.1	2.1	13.0	6.0		
	610	SGMR	46	C	1912.0	1912.0	27.0	29.0			QL=4 ST=2 TYP=8
	410	SGMR	48	C	1956.0	1958.0	8.0	60.0			QL=4 ST=2 TYP=8
	2800	PENT	29	PBI	2339.0	2343.0	44.0	12.0			
	2840	PEKG	5	S	2340.0	2343.8	8.0	19.4			
26	127	TORN	43	NS	0750.0		430.0		5.0		V=1
	235	CUBA	44	NS	1400.0E		470.0D		7.0		
	280	CUBA	44	NS	1400.0E		470.0D		16.0		
	2840	PEKG	1	S	0713.0	0716.1	6.0	18.2			
	3000	IZMI	7	C	0715.4	0715.8	1.0	12.0	4.0		
	900	GORK	41	F	0831.3	0836.1		14.0			
	900	GORK	41	F	0831.3	0836.1		14.0			
	900	GORK	41	F	0831.3	0832.5	6.2	22.0			
	900	GORK	41	F	0831.3	0832.5	6.2	22.0			
	9100	GORK	2	S/F	0845.0	0845.6	1.8	13.0			
	610	SGMR	8	S	1100.0	1100.0	U	210.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1410.8	1411.6	1.5	7.0	3.0		
	410	SGMR	48	C	2007.0	2007.0	U	57.0			QL=4 ST=2 TYP=8
27	204	IZMI	43	NS	0542.0		378.0D		5.0		
	127	TORN	44	NS	1100.0E		170.0D		4.0		V=1
	235	CUBA	44	NS	1305.0E		300.0D		7.0		
	280	CUBA	44	NS	1305.0E		300.0D		15.0		
	245	LEAR	4	S/F	0150.0	0155.0	7.0	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0201.0	0201.0	1.0	60.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0245.0	0248.8	6.0	3.7			
	245	LEAR	8	S	0310.0	0311.0	1.0	68.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0357.0	0400.3	6.0	6.8			
	2840	PEKG	3	S	0632.0	0635.5	12.0	20.4			
	9100	GORK	4	S/F	0632.3	0635.3U	13.7	340.0			
	4995	LEAR	4	S/F	0634.0	0635.0	3.0	130.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0634.0	0635.0	3.0	280.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	0634.0	0635.0	3.0	490.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0634.0	0635.0	2.0	420.0			QL=4 ST=3 TYP=3
	4995	SVTO	4	S/F	0634.0	0635.0	4.0	130.0			QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	0634.0	0635.0	3.0	270.0			QL=4 ST=3 TYP=3
	2950	GORK	4	S/F	0634.3	0635.5	5.7	26.0			
	3000	IZMI	22	GRF	0634.5	0635.6	3.0	29.0	14.0		
	245	LEAR	8	S	0721.0	0721.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1145.0	1146.0	1.0	74.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1146.0	1146.0	U	57.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1258.0	1258.0	1.0	130.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1259.0	1259.3	1.0	13.0	6.0		
	6700	CUBA	2	S/F	1431.8	1431.9	1.7	12.0	6.0		18R
	9500	CUBA	2	S/F	1431.8	1431.9	0.6	16.0	8.0		
	6700	CUBA	2	S/F	1527.0	1528.0	2.3	8.0	4.0		20R
	15400	SGMR	8	S	1527.0	1527.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1527.0	1527.0	3.0	28.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1527.0	1527.0	1.0	26.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1527.0	1527.0	1.0	110.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1527.0	1527.0	2.0	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1527.0	1527.8	2.5	26.0	13.0		
	2800	PENT	20	GRF	1734.0	1746.0	32.0	6.0			
	8800	SGMR	4	S/F	1930.0	1930.0	5.0	28.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1930.0	1930.0	5.0	84.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1930.0	1931.3	2.4	7.0	3.0		13R
	9500	CUBA	1	S	1930.0	1930.4	2.3	21.0	10.0		
	2800	PENT	29	PBI	2350.0	0008.0	126.0	92.0			
	2840	PEKG	3	S	2359.0	0007.9	35.0	121.5			
28	235	CUBA	44	NS	1305.0E		415.0D		7.0		
	280	CUBA	44	NS	1305.0E		415.0D		16.0		
	500	HIRA	7	C	0002.0	0007.0	17.0	60.0			0
	2800	HIRA	7	C	0003.0	0008.0	18.0	95.0			0
	410	LEAR	8	S	0006.0	0006.0	2.0	39.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0006.0	0007.0	2.0	41.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	2695	LEAR	4 S/F	0006.0	0007.0	13.0	99.0			QL=4 ST=2 TYP=3
	1415	LEAR	46 C	0007.0	0012.0	8.0	49.0			QL=4 ST=2 TYP=8
	245	PALE	48 C	0007.0	0012.0	6.0	150.0			QL=4 ST=2 TYP=8
	1415	PALE	46 C	0007.0	0012.0	8.0	47.0			QL=4 ST=2 TYP=8
	2695	PALE	8 S	0007.0	0008.0	2.0	84.0			QL=4 ST=2 TYP=3
	15400	LEAR	20 GRF	0007.0	0012.0	17.0	38.0			QL=4 ST=2 TYP=2
	4995	LEAR	4 S/F	0007.0	0008.0	11.0	64.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0007.0	0008.0	18.0	46.0			QL=4 ST=2 TYP=3
	4995	PALE	48 C	0009.0	0012.0	6.0	66.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	0009.0	0014.0	15.0	75.0			QL=4 ST=2 TYP=8
	610	LEAR	8 S	0012.0	0012.0	U	34.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0159.0	0201.0	26.0	132.5			
	245	LEAR	49 GB	0200.0	0200.0	1.0	600.0			QL=4 ST=2 TYP=6
	8800	LEAR	49 GB	0200.0	0200.0	3.0	540.0			QL=4 ST=2 TYP=6
	2695	LEAR	8 S	0200.0	0200.0	2.0	110.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0200.0	0200.0	1.0	230.0			QL=4 ST=2 TYP=3
	1415	LEAR	4 S/F	0200.0	0201.0	5.0	58.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0200.0	0200.0	3.0	360.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0200.0	0200.0	2.0	4200.0			QL=4 ST=2 TYP=6
	1415	PALE	8 S	0200.0	0201.0	2.0	64.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0200.0	0200.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0200.0	0200.0	1.0	280.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0200.0	0200.0	1.0	240.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0200.0	0200.0	3.0	320.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0200.0	0201.0	12.0	120.0			0
	500	HIRA	29 PBI	0201.0	0201.0	46.0	10.0			0
	2840	PEKG	1 S	0253.0	0255.0	4.0	4.2			
	2840	PEKG	20 GRF	0351.0	0354.0	6.0	3.6			
	9100	GORK	23 GRF	0522.3	0855.6	313.7D	47.0			
	9100	GORK	23 GRF	0522.3	0926.8		37.0			
	9100	GORK	1 S	0522.7	0523.1	0.7	4.6			
	9100	GORK	1 S	0610.7	0611.1	1.3	17.0			
	9100	GORK	1 S	0714.1	0715.0	1.9	7.5			
	2950	GORK	32 ABS	0722.0	0736.8	23.7	7.9			
	9100	GORK	46 C	0742.3	0743.7	7.0	41.0			
	9100	GORK	46 C	0742.3	0745.9		39.0			
	900	GORK	3 S	0743.7	0743.9	0.3	12.0			
	8800	LEAR	4 S/F	0819.0	0820.0	4.0	64.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0819.0	0820.0	6.0	59.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0819.2	0834.1		40.0			
	9100	GORK	46 C	0819.2	0820.4	26.2	70.0			
	9100	GORK	46 C	0819.2	0821.7		60.0			
	2950	GORK	2 S/F	0950.4	0951.3	1.6	12.0			
	9100	GORK	1 S	1012.9	1013.8	2.1	11.0			
	245	SGMR	8 S	1149.0	1149.0	U	68.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1149.0	1149.0	1.0	66.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1218.0	1221.0	8.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1218.0	1221.0	8.0	130.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1219.0	1221.0	9.0	53.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1221.0	1221.0	2.0	27.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1221.0	1221.0	2.0	41.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1221.0	1221.0	1.0	28.0			QL=4 ST=2 TYP=3
	6700	CUBA	1 S	1336.2	1337.4	1.8	23.0	11.0		5R
	9500	CUBA	1 S	1336.8	1337.3	1.2	10.0	5.0		
	9500	CUBA	1 S	1420.0	1421.0	3.0	11.0	5.0		
	33	UPIC	42 SER	1445.0	1527.0	88.0				
	2800	PENT	1 S	1529.0	1535.0	160.0	17.0			
	9500	CUBA	1 S	1534.4	1535.2	2.6	10.0	5.0		
	6700	CUBA	1 S	1534.5	1535.2	2.5	17.0	8.0		14L
	2800	PENT	29 PBI	1549.0	1618.0	43.0U	15.0			
	6700	CUBA	22 GRF	1555.0	1615.0	70.0	39.0	19.0		9R
	9500	CUBA	20 GRF	1556.0	1615.0	47.0	26.0	13.0		
	2695	SGMR	4 S/F	1557.0	1557.0	6.0	41.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1557.0	1557.0	1.0	41.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1558.0	1559.0	5.0	89.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1558.0	1558.0	5.0	79.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1558.0	1602.0	5.0	35.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1558.0	1558.0	2.0	87.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1558.0	1559.0	3.0	63.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	610	SGMR	4	S/F	1559.0	1600.0	4.0	10.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1559.0	1600.0	4.0	34.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1559.0	1603.0	4.0	23.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1559.0	1602.0	4.0	11.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1600.0	1601.0	1.0	37.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1602.0	1603.0	1.0	24.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1602.0	1602.0	U	26.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1754.3	1755.4	4.5	19.0	9.0		16L
	6700	CUBA	1	S	1828.0	1831.2	5.0	8.0	4.0		18L
	6700	CUBA	4	S/F	1926.0	1927.0	8.8	27.0	13.0		17L
	9500	CUBA	21	GRF	1926.0	1944.0	63.0	18.0	9.0		
	1415	PALE	8	S	2004.0	2005.0	2.0	3.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	2004.0	2004.0	2.0	10.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	2004.0	2005.0	2.0	64.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	2004.0	2005.0	2.0	80.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	2004.0	2005.0	2.0	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2004.0	2005.0	2.0	100.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	2004.0	2005.0	2.0	180.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2004.0	2005.0	3.0	130.0			QL=4 ST=2 TYP=3
	6700	CUBA	3	S	2005.0	2006.0	5.0	153.0	76.0		4L
	9500	CUBA	3	S	2005.0	2006.5	4.0	135.0	67.0		
	6700	CUBA	1	S	2053.0	2055.0	3.0	8.0	4.0		18L
	6700	CUBA	2	S/F	2108.4	2110.4	5.3	24.0	12.0		10L
	9500	CUBA	2	S/F	2109.8	2110.6	1.5	25.0	12.0		
29	235	CUBA	44	NS	1310.0E		350.0D		5.0		
	280	CUBA	44	NS	1310.0E		350.0D		15.0		
	410	SGMR	43	NS	1847.0	1859.0	33.0	130.0			QL=4 ST=2 TYP=1
	2840	PEKG	45	C	0227.0	0229.3	6.0	13.1			
	1415	LEAR	8	S	0229.0	0229.0	1.0	100.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	0229.0	0229.0	3.0	17.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0229.0	0229.0	1.0	90.0			QL=4 ST=2 TYP=3
	9100	GORK	21	GRF	0502.2	0506.5	94.5	19.0			
	9100	GORK	46	C	0513.4	0523.0		30.0			
	9100	GORK	46	C	0513.4	0519.3		80.0			
	9100	GORK	46	C	0513.4	0518.4	13.4	52.0			
	8800	LEAR	4	S/F	0514.0	0519.0	15.0	110.0			QL=4 ST=2 TYP=3
	2840	PEKG	20	GRF	0514.0	0519.6	28.0	21.3			
	2950	GORK	20	GRF	0515.3	0519.5	21.4	11.0			
	4995	LEAR	4	S/F	0517.0	0519.0	13.0	69.0			QL=4 ST=2 TYP=3
	4995	SVTO	48	C	0517.0	0519.0	13.0	61.0			QL=4 ST=2 TYP=8
	8800	SVTO	48	C	0517.0	0519.0	11.0	92.0			QL=4 ST=2 TYP=8
	2695	SVTO	46	C	0519.0	0519.0	1.0	21.0			QL=4 ST=2 TYP=8
	15400	SVTO	46	C	0528.0	0528.0	4.0	26.0			QL=4 ST=2 TYP=8
	2950	GORK	1	S	0548.8	0549.1	1.0	5.0			
	2840	PEKG	5	S	0554.0	0557.6	6.0	13.6			
	2950	GORK	2	S/F	0557.3	0557.6	0.5	8.0			
	2840	PEKG	3	S	0607.0	0612.0	12.0	399.7			
	2800	HIRA	8	S	0610.0	0612.0	3.0	305.0			WL
	2695	LEAR	8	S	0610.0	0611.0	2.0	110.0			QL=4 ST=2 TYP=3
	2950	GORK	46	C	0610.3	0611.0U	2.4	31.0U			
	2950	GORK	46	C	0610.3	0611.7		170.0			
	3000	IZMI	45	C	0610.4	0611.6	1.9	323.0	28.0		
	9100	GORK	1	S	0610.5	0611.6	3.1	12.0			
	2695	SVTO	8	S	0611.0	0611.0	U	85.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	1015.7	1037.9	93.7	14.0	7.0		
	204	IZMI	42	SER	1110.3	1110.6	3.4	20.0			
	204	IZMI	42	SER	1133.3	1133.6	0.5	28.0			
	8800	SGMR	4	S/F	1229.0	1246.0	47.0	230.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1242.0	1247.0	23.0	75.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1243.0	1247.0	19.0	66.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	1243.5	1246.2	6.5	132.0	66.0		
	8800	SVTO	4	S/F	1244.0	1246.0	14.0	180.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1245.0	1247.0	2.0	24.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1246.0	1246.0	1.0	26.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1247.0	1247.0	U	22.0			QL=4 ST=2 TYP=3
	9500	CUBA	29	PBI	1250.0		101.0	29.0	14.0		
	15400	SGMR	4	S/F	1250.0	1251.0	21.0	55.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1314.0	1314.0	U	26.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	6700	CUBA	21	GRF	1420.0E	1420.0	97.0D	10.0	5.0		21L
	6700	CUBA	1	S	1424.0	1424.8	1.0	6.0	3.0		18L
	2800	PENT	1	S	1439.0	1443.0	9.0	1.0			
	4995	SGMR	8	S	1439.0	1439.0	U	35.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1439.0	1439.0	U	54.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1439.0	1439.0	U	41.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1439.0	1439.0	U	64.0			QL=4 ST=2 TYP=3
	9500	CUBA	1	S	1439.2	1439.5	1.8	44.0	22.0		
	6700	CUBA	3	S	1439.2	1439.6	2.8	79.0	39.0		27L
	6700	CUBA	1	S	1659.0	1700.0	1.5	9.0	4.0		16L
	2800	PENT	45	C	1808.0	1825.0	52.0	13.0			
	610	SGMR	4	S/F	1824.0	1825.0	3.0	270.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1825.0	1827.0	2.0	43.0			QL=4 ST=2 TYP=3
	410	SGMR	48	C	1832.0	1839.0	13.0	140.0			QL=4 ST=2 TYP=8
	610	PALE	8	S	1839.0	1840.0	2.0	110.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1839.0	1840.0	6.0	110.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	1840.0	1841.0	1.0	74.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1840.0	1840.0	5.0	90.0			QL=4 ST=2 TYP=3
	6700	CUBA	40	F	2013.2	2016.2	14.8	81.0	40.0		10L
	9500	CUBA	40	F	2013.3	2016.2	14.2	62.0	31.0		
	15400	SGMR	46	C	2015.0	2016.0	3.0	35.0			QL=4 ST=2 TYP=8
	410	SGMR	4	S/F	2015.0	2015.0	3.0	270.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2015.0	2017.0	3.0	54.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2015.0	2016.0	3.0	72.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	2017.0	2017.0	1.0	32.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	2023.0	2023.0	2.0	1800.0			QL=4 ST=2 TYP=6
30	127	TORN	43	NS	0850.0		130.0		7.0		V=2
	204	IZMI	43	NS	0856.0		114.0		10.0		
	235	CUBA	44	NS	1300.0E		470.0D		6.0		
	280	CUBA	44	NS	1300.0E		470.0D		14.0		
	2840	PEKG	5	S	0017.0	0018.5	3.0	13.8			
	2800	PENT	41	F	0028.0	0057.0	82.0	29.0			
	2840	PEKG	5	S	0055.0	0057.9	9.0	31.9			
	2800	HIRA	3	S	0057.0	0058.0	3.0	40.0			0
	2840	PEKG	3	S	0128.0	0134.4	19.0	35.1			
	410	LEAR	8	S	0131.0	0131.0	1.0	240.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0132.0	0132.0	U	380.0			QL=4 ST=2 TYP=3
	500	HIRA	7	C	0132.0	0139.0	10.0	135.0			0
	245	LEAR	49	GB	0133.0	0134.0	6.0	12000.0			QL=4 ST=2 TYP=6
	8800	LEAR	8	S	0133.0	0134.0	2.0	38.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0133.0	0134.0	3.0	52.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	0134.0	0134.0	2.0	35.0			0
	610	LEAR	8	S	0134.0	0134.0	1.0	55.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0134.0	0134.0	1.0	73.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0134.0	0134.0	1.0	34.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0134.0	0134.0	5.0	11000.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	0134.0	0134.0	1.0	59.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0334.0	0336.4	6.0	11.0			
	2840	PEKG	1	S	0440.0	0443.6	6.0	6.7			
	204	IZMI	7	C	0609.3	0609.3	0.1	16.0			
	900	GORK	41	F	0628.9	0629.8	2.4	70.0			
	900	GORK	41	F	0628.9	0630.9		16.0			
	3000	IZMI	20	GRF	0644.1	0645.7	2.1	10.0	4.0		
	2950	GORK	1	S	0644.5	0645.8	3.5	5.0			
	9100	GORK	46	C	0648.2	0649.1	3.6	56.0			
	9100	GORK	46	C	0648.2	0650.4		14.0			
	2950	GORK	1	S	0722.8	0724.0	2.7	5.0			
	2950	GORK	1	S	0819.3	0820.3	3.5	5.0			
	410	LEAR	8	S	0845.0	0845.0	1.0	34.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0845.0	0845.0	1.0	29.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0845.4	0846.4	1.4	44.0			
	245	LEAR	8	S	0846.0	0846.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0846.0	0846.0	U	66.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0850.0	0850.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0850.0	0850.0	U	61.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0850.2	0850.5	0.7	34.0			
	204	IZMI	42	SER	0856.8	0859.9	3.7	20.0			
	410	LEAR	8	S	0859.0	0859.0	2.0	50.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION

Outstanding Occurrences

AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	245	SVTO	48	C	0920.0	0932.0	19.0	100.0			QL=4 ST=2 TYP=8
	410	SVTO	4	S/F	0920.0	0923.0	17.0	260.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0920.0	0946.0	35.0	190.0			QL=4 ST=2 TYP=8
	410	LEAR	48	C	0920.0	0923.0	35.0	240.0			QL=4 ST=2 TYP=8
	600	GORK	46	C	0920.7	0923.4	19.6	32.0			
	600	GORK	21	GRF	0920.7	1056.4	160.3	21.0			
	600	GORK	46	C	0920.7	0935.7		40.0			
	204	IZMI	46	C	0929.6	0946.2	55.0	97.0			
	610	SVTO	8	S	0935.0	0936.0	1.0	27.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0944.0	0946.0	9.0	160.0			QL=4 ST=2 TYP=3
	410	SVTO	48	C	0945.0	0951.0	8.0	140.0			QL=4 ST=2 TYP=8
	610	SVTO	4	S/F	0945.0	0949.0	8.0	86.0			QL=4 ST=2 TYP=3
	600	GORK	48	C	0945.2	1021.5		700.0			
	600	GORK	48	C	0945.2	1004.7	59.0	480.0			
	900	GORK	46	C	0946.4	0947.4	6.0	39.0			
	900	GORK	46	C	0946.4	0948.5		88.0			
	610	LEAR	4	S/F	0948.0	0949.0	7.0	65.0			QL=4 ST=2 TYP=3
	900	GORK	2	S/F	1000.8	1002.1	3.6	7.4			
	610	SVTO	4	S/F	1018.0	1021.0	8.0	190.0			QL=4 ST=2 TYP=3
	900	GORK	47	GB	1018.0	1021.2	22.2	1500.0			
	1415	SVTO	8	S	1020.0	1020.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	1020.0	1022.0	8.0	26.0			QL=4 ST=2 TYP=3
	900	GORK	47	GB	1049.0	1121.5U		150.0U			
	900	GORK	47	GB	1049.0	1117.8	71.0	60.0			
	600	GORK	4	S/F	1107.5	1125.5	48.7	130.0			
	204	IZMI	42	SER	1143.9	1144.0	1.9	22.0			
	245	SGMR	8	S	1309.0	1309.0	U	480.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1309.0	1309.0	U	470.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1309.0	1309.0	U	49.0			QL=4 ST=2 TYP=3
	9500	CUBA	4	S/F	1728.4	1733.2	8.4	81.0	40.0		
	6700	CUBA	21	GRF	1729.0	1759.0	71.0	45.0	22.0		5L
	4995	PALE	4	S/F	1730.0	1731.0	8.0	21.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	1730.0	1731.0	3.0	36.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1730.0	1731.0	3.0	60.0			QL=4 ST=2 TYP=3
	8800	SGMR	48	C	1730.0	1731.0	5.0	100.0			QL=4 ST=2 TYP=8
	15400	SGMR	4	S/F	1730.0	1731.0	5.0	140.0			QL=4 ST=2 TYP=3
	6700	CUBA	2	S/F	1730.0	1733.4	5.5	44.0	22.0		6L
	4995	SGMR	46	C	1731.0	1731.0	2.0	30.0			QL=4 ST=2 TYP=8
	2800	PENT	29	PBI	1740.0	1750.0	112.0U	45.0			
	9500	CUBA	21	GRF	1746.0	1757.0	56.0	43.0	21.0		
	15400	SGMR	48	C	1748.0	1751.0	16.0	200.0			QL=4 ST=2 TYP=8
	9500	CUBA	4	S/F	1748.0	1752.4	9.0	124.0	62.0		
	4995	SGMR	48	C	1749.0	1750.0	15.0	63.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1749.0	1751.0	15.0	170.0			QL=4 ST=2 TYP=8
	6700	CUBA	2	S/F	1749.0	1751.6	9.0	79.0	39.0		6L
	1415	PALE	8	S	1750.0	1750.0	1.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1750.0	1751.0	2.0	130.0			QL=4 ST=2 TYP=3
	1415	SGMR	48	C	1750.0	1750.0	14.0	140.0			QL=4 ST=2 TYP=8
	2695	SGMR	46	C	1750.0	1750.0	14.0	37.0			QL=4 ST=2 TYP=8
	2800	PENT	29	PBI	2029.0	2036.0	123.0U	895.0			
	9500	CUBA	47	GB	2031.0	2036.8	8.2	507.0	253.0		
	6700	CUBA	4	S/F	2031.2	2037.0	11.3	344.0	172.0		13L
	235	CUBA	48	C	2034.9	2034.9	4.8	1986.0	993.0		
	280	CUBA	48	C	2034.9	2034.9	4.8	3680.0	1840.0		
	245	PALE	49	GB	2035.0	2036.0	6.0				QL=4 ST=2 TYP=6
	15400	PALE	49	GB	2035.0	2036.0	3.0	2400.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	2035.0	2036.0	10.0				QL=4 ST=2 TYP=6
	410	SGMR	4	S/F	2035.0	2036.0	10.0	1800.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	2035.0	2036.0	10.0	560.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2035.0	2036.0	10.0	1000.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	2035.0	2036.0	10.0	1000.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2035.0	2036.0	10.0	1800.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	2035.0	2036.0	10.0	2500.0			QL=4 ST=2 TYP=3
	2800	HIRA	8	S	2036.0	2037.0	2.0	60.0			0
	500	HIRA	8	S	2036.0	2036.0	1.0	16.0			WL
	410	PALE	49	GB	2036.0	2036.0	U	1600.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	2036.0	2036.0	4.0	930.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	2036.0	2036.0	2.0	990.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	2036.0	2036.0	2.0	1700.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
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AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	610	PALE	4	S/F	2036.0	2037.0	8.0	220.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	2036.0	2036.0	6.0	490.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2036.0	2036.0	9.0	210.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2215.0	2215.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2243.0	2243.0	2.0	150.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	2341.0	2345.0	8.0	13.0			
	2840	PEKG	20	GRF	2343.0	2345.9	12.0	15.5			
31	610	LEAR	43	NS	0055.0	2358.0	1385.0	250.0			QL=4 ST=1 TYP=1
	127	TORN	43	NS	0746.0		206.0		10.0		V=1
	280	CUBA	44	NS	1300.0E		530.0D		17.0		
	235	CUBA	44	NS	1305.0E		525.0D		8.0		
	245	PALE	43	NS	2255.0	2341.0	229.0	550.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2256.0	0006.0	164.0	970.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	2326.0	2358.0	134.0	340.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2343.0	0002.0	181.0	650.0			QL=4 ST=2 TYP=1
	610	LEAR	43	NS	2355.0	2358.0	78.0	250.0			QL=4 ST=2 TYP=1
	610	PALE	43	NS	2356.0	0003.0	169.0	330.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0200.0	0200.0	U	76.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0602.0	0603.0	3.0	200.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0602.0	0605.2	7.0	6.3			
	245	SVTO	48	C	0603.0	0603.0	2.0	150.0			QL=4 ST=2 TYP=8
	204	IZMI	42	SER	0603.0	0604.1	2.8	64.0			
	900	GORK	4	S/F	0604.5	0605.4	1.5	16.0			
	600	GORK	4	S/F	0604.6	0605.4	1.5	34.0			
	500	HIRA	8	S	0605.0	0605.0	1.0	10.0			0
	245	LEAR	8	S	0609.0	0609.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0609.0	0609.0	1.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0609.6	0609.9	0.9	121.0			
	204	IZMI	7	C	0627.9	0628.2	0.4	23.0			
	204	IZMI	7	C	0711.2	0711.3	0.2	13.0			
	204	IZMI	41	F	0722.7	0723.5	2.0	40.0			
	245	LEAR	8	S	0723.0	0724.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0723.0	0724.0	1.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0806.7	0806.9	1.0	17.0			
	900	GORK	45	C	1034.2	1040.6		66.0			
	900	GORK	45	C	1034.2	1038.7U	10.8	160.0U			
	600	GORK	46	C	1034.3	1035.7	10.3	23.0			
	600	GORK	46	C	1034.3	1038.8		110.0			
	3000	IZMI	45	C	1034.5	1038.3	28.7	286.0	21.0		
	1415	SVTO	4	S/F	1035.0	1038.0	9.0	200.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1035.0	1038.0	7.0	270.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1035.0	1038.0	7.0	440.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1035.0	1038.0	6.0	500.0			QL=4 ST=2 TYP=3
	15400	SVTO	49	GB	1036.0	1038.0	5.0	600.0			QL=4 ST=2 TYP=6
	410	SVTO	49	GB	1037.0	1038.0	5.0	1200.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1038.0	1042.0	5.0	5400.0			QL=4 ST=2 TYP=6
	610	SVTO	4	S/F	1038.0	1038.0	4.0	54.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1038.1	1038.7	0.8	16.0			
	245	SGMR	49	GB	1040.0E	1042.0U	9.0D	1900.0			QL=4 ST=2 TYP=6
	204	IZMI	46	C	1040.6	1042.6	6.6	9281.0			
	410	SGMR	45	C	1043.0E	1049.0U	6.0D	1.0			QL=4 ST=2 TYP=8
	900	GORK	30	PBI	1045.0	1045.0	13.6	28.0			
	600	GORK	30	PBI	1045.0	1045.0	15.0	33.0			
	900	GORK	3	S	1054.0	1054.3	0.6	54.0			
	3000	IZMI	7	C	1054.3	1054.4	0.4	46.0	17.0		
	600	GORK	1	S	1054.3	1054.5	0.4	7.3			
	204	IZMI	42	SER	1122.6	1122.9	0.4	31.0			
	3000	IZMI	46	C	1125.0	1129.9	26.7	87.0	9.0		
	204	IZMI	46	C	1128.6	1137.8	15.1	262.0			
	1415	SVTO	48	C	1129.0	1140.0	11.0	66.0			QL=4 ST=2 TYP=8
	245	SGMR	48	C	1132.0	1135.0	7.0	180.0			QL=4 ST=2 TYP=8
	245	SVTO	48	C	1132.0	1135.0	8.0	130.0			QL=4 ST=2 TYP=8
	33	UPIC	46	C	1132.5	1133.0	3.5				
	410	SGMR	48	C	1133.0	1134.0	6.0	54.0			QL=4 ST=2 TYP=8
	1415	SGMR	48	C	1133.0	1134.0	6.0	52.0			QL=4 ST=2 TYP=8
	410	SVTO	48	C	1133.0	1140.0	7.0	81.0			QL=4 ST=2 TYP=8
	610	SGMR	46	C	1134.0	1134.0	5.0	47.0			QL=4 ST=2 TYP=8
	2695	SGMR	4	S/F	1136.0	1137.0	3.0	21.0			QL=4 ST=2 TYP=3

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

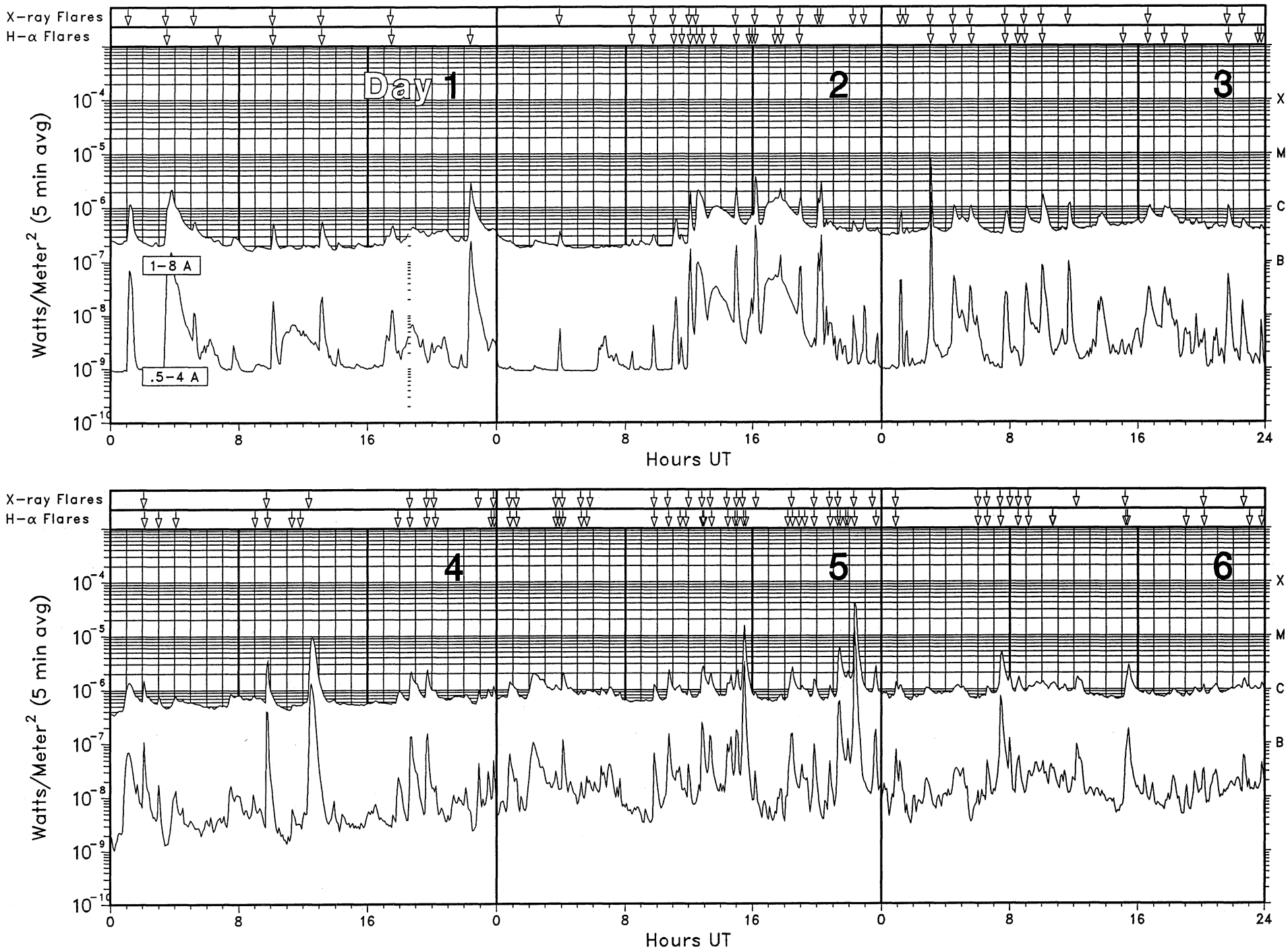
Outstanding Occurrences

AUGUST 2001

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	410	SGMR	8	S	1139.0	1140.0	2.0	72.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1139.0	1140.0	2.0	88.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1139.0	1139.0	1.0	89.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1140.0	1140.0	1.0	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1230.0	1230.0	U	54.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1441.0	1447.0	7.0	700.0			QL=4 ST=2 TYP=6
	2800	PENT	1	S	1442.0	1447.0	9.0	17.0			
	410	SGMR	4	S/F	1444.0	1446.0	3.0	210.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1446.0	1447.0	1.0	510.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1446.0	1446.0	1.0	300.0			QL=4 ST=2 TYP=3
	6700	CUBA	4	S/F	1446.0	1447.2	6.2	17.0	8.0		16L
	280	CUBA	6	S	1446.2	1446.9	1.5	2135.0	1068.0		
	235	CUBA	6	S	1446.8	1447.1	1.4	793.0	397.0		
	245	SGMR	8	S	1510.0	1510.0	U	54.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	1524.0	1531.0	46.0	19.0			
	410	SGMR	48	C	1525.0	1531.0	8.0	87.0			QL=4 ST=2 TYP=8
	280	CUBA	7	C	1528.4	1531.0	6.7	81.0	41.0		
	235	CUBA	7	C	1528.4	1531.1	6.7	40.0	20.0		
	610	SGMR	4	S/F	1529.0	1531.0	4.0	140.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	1530.0	1531.0	2.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1531.0	1531.0	2.0	79.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1531.0	1531.0	1.0	39.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1531.0	1531.0	1.0	59.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1531.0	1531.0	1.0	70.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1531.0	1531.0	1.0	46.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1531.0	1531.0	U	31.0			QL=4 ST=2 TYP=3
	280	CUBA	27	RF	1638.7	1719.0	54.1	41.0	21.0		
	235	CUBA	27	RF	1638.9	1720.0	47.8	31.0	15.0		
	245	PALE	8	S	1742.0	1742.0	1.0	260.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1742.0	1742.0	2.0	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1742.0	1742.0	2.0	200.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1742.0	1742.0	U	160.0			QL=4 ST=2 TYP=3
	280	CUBA	6	S	1742.4	1742.9	2.5	144.0	72.0		
	235	CUBA	6	S	1742.9	1743.3	2.0	56.0	28.0		
	245	PALE	8	S	2113.0	2114.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2113.0	2113.0	2.0	62.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2117.0	2122.0	59.0	34.0			
	2840	PEKG	47	GB	2220.0	2241.4	49.0	446.7			
	245	PALE	49	GB	2228.0	2228.0	2.0	120.0			QL=4 ST=2 TYP=6
	500	HIRA	7	C	2228.0	2241.0	28.0	350.0			ML
	610	PALE	8	S	2229.0	2230.0	1.0	81.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	2229.0	2230.0	1.0	48.0			QL=4 ST=2 TYP=3
	610	PALE	48	C	2235.0	2242.0	9.0	230.0			QL=4 ST=2 TYP=8
	2800	HIRA	47	GB	2235.0	2241.0	20.0	510.0			0
	9500	CUBA	47	GB	2237.9	2240.2	5.1D	543.0	271.0		SUN SET
	1415	PALE	48	C	2238.0	2241.0	6.0	310.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	2238.0	2244.0	12.0	8900.0			QL=4 ST=2 TYP=8
	410	PALE	49	GB	2240.0	2240.0	4.0	820.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	2240.0	2241.0	3.0	540.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	2240.0	2241.0	3.0	530.0			QL=4 ST=2 TYP=6
	8800	PALE	49	GB	2240.0	2241.0	2.0	1100.0			QL=4 ST=2 TYP=6
	15400	PALE	49	GB	2240.0	2241.0	2.0	810.0			QL=4 ST=2 TYP=6

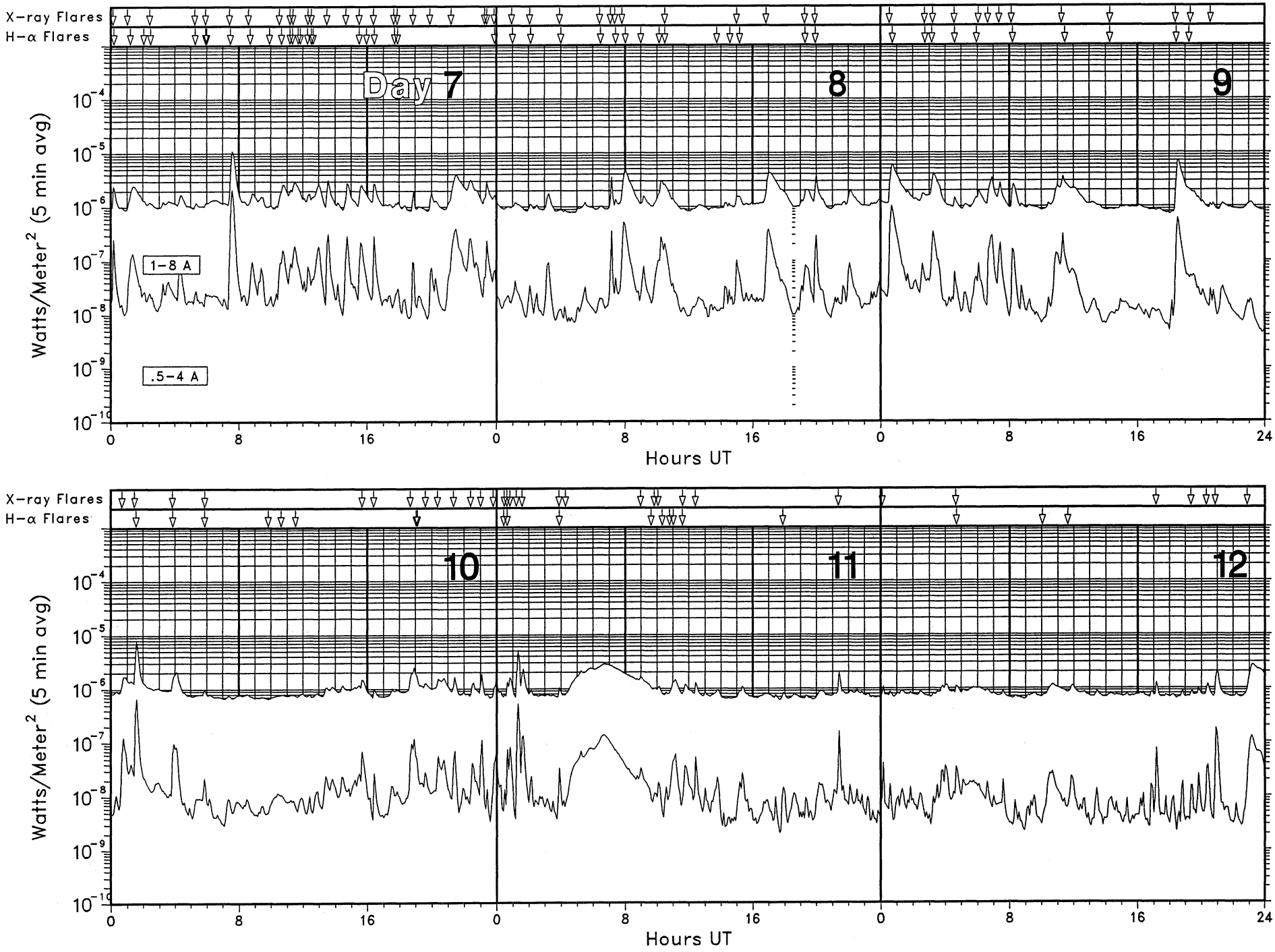
GOES X-RAY DETECTOR

August 2001



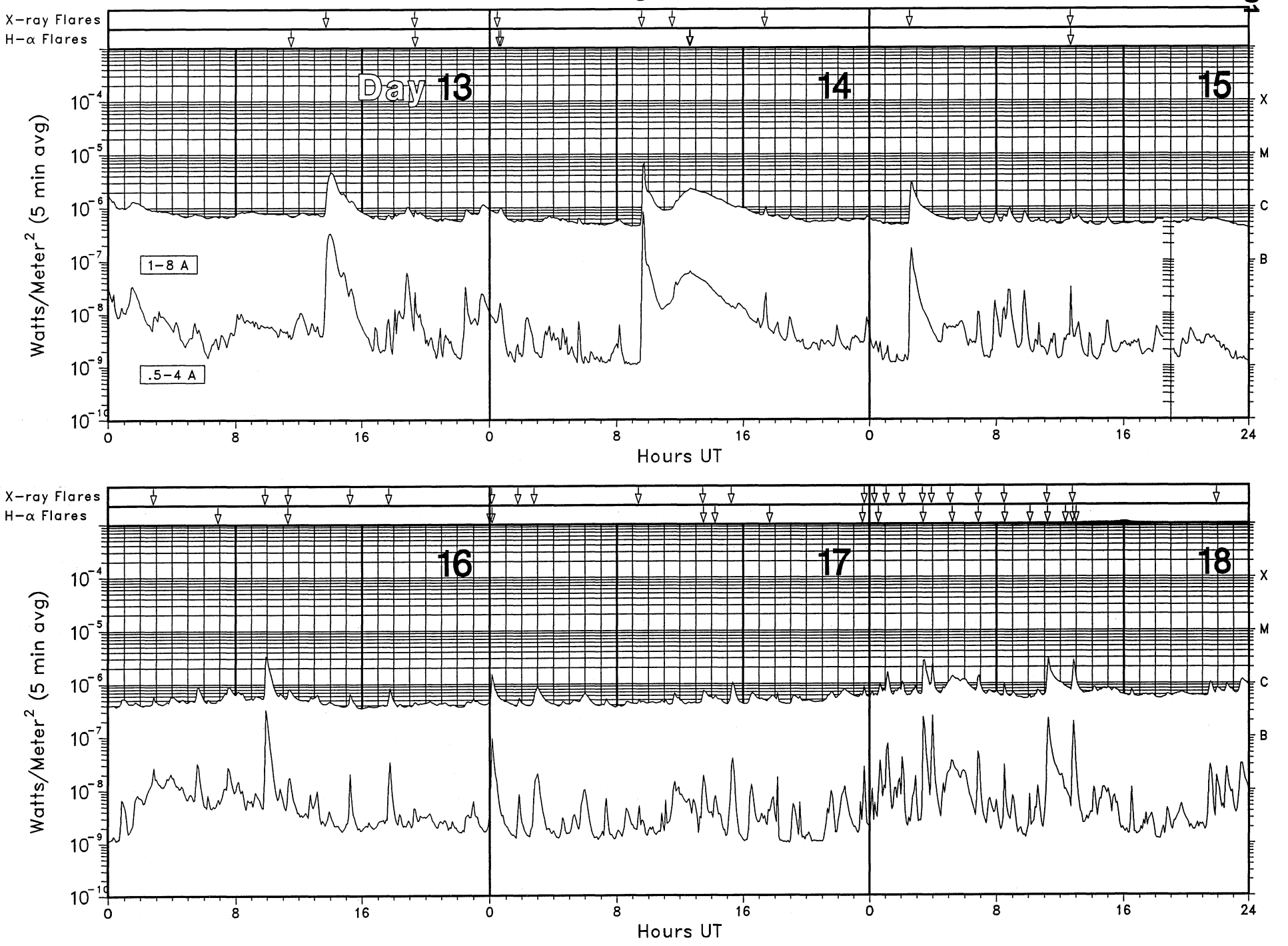
GOES X-RAY DETECTOR

August 2001



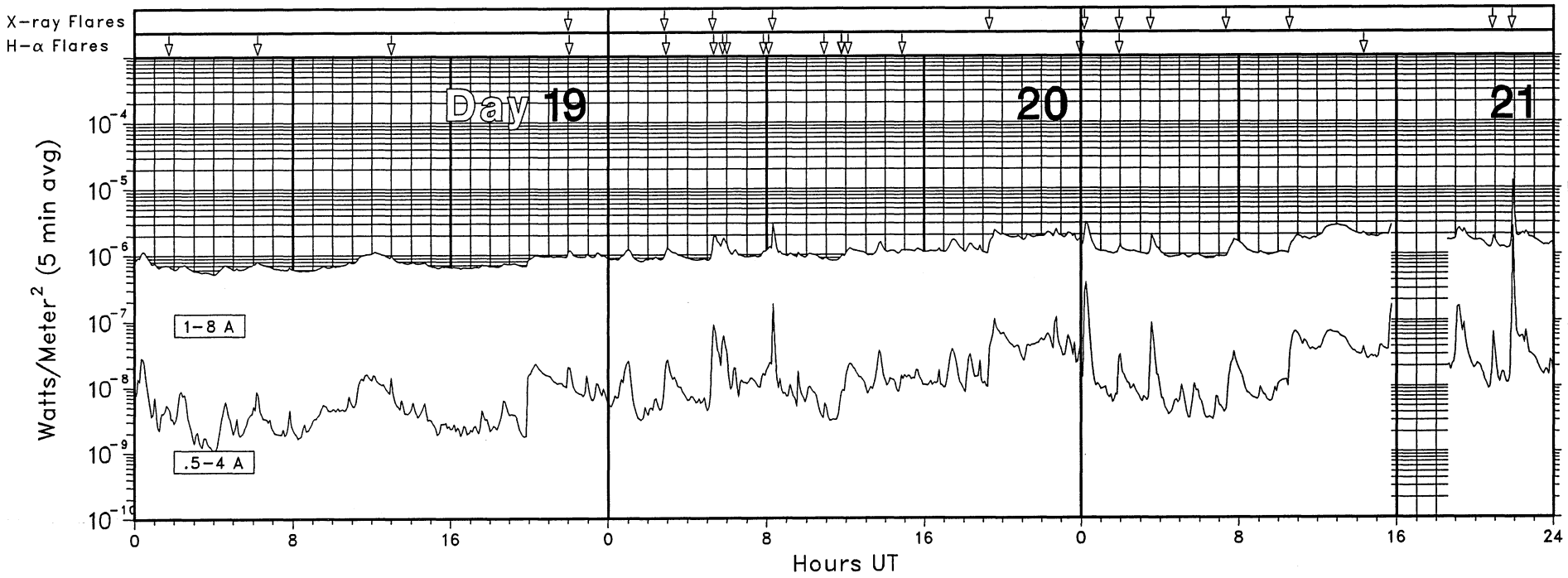
GOES X-RAY DETECTOR

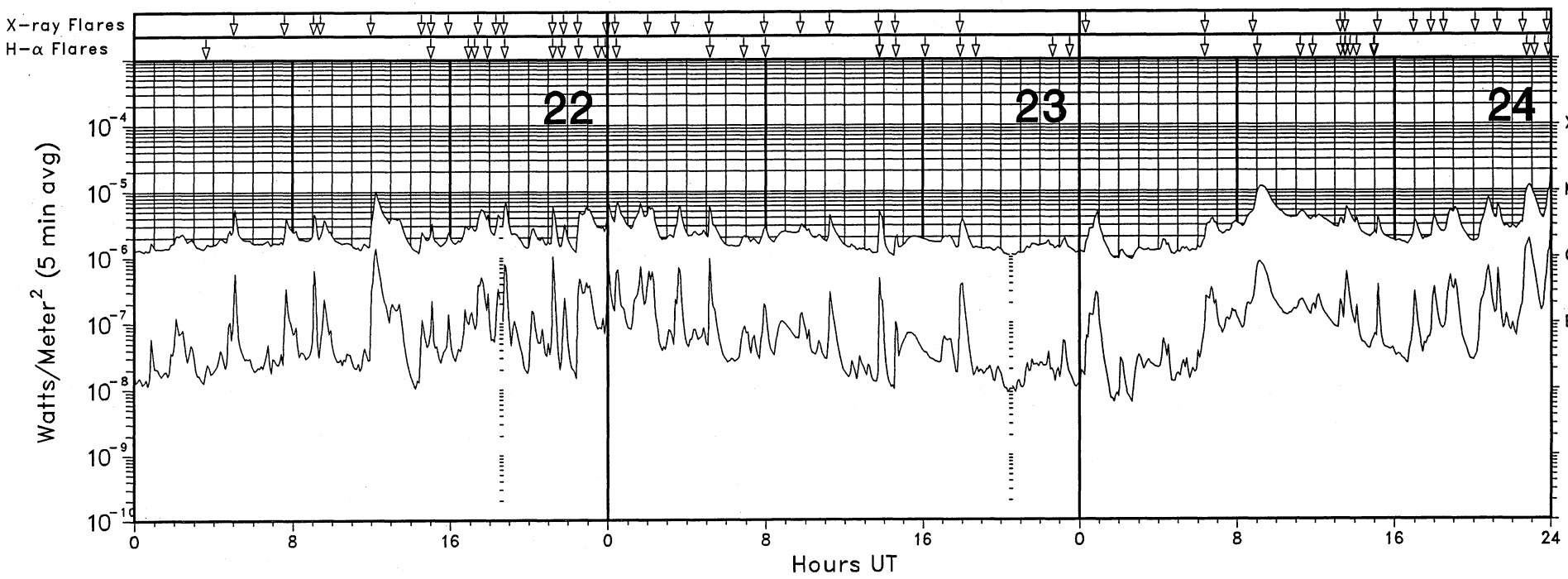
August 2001

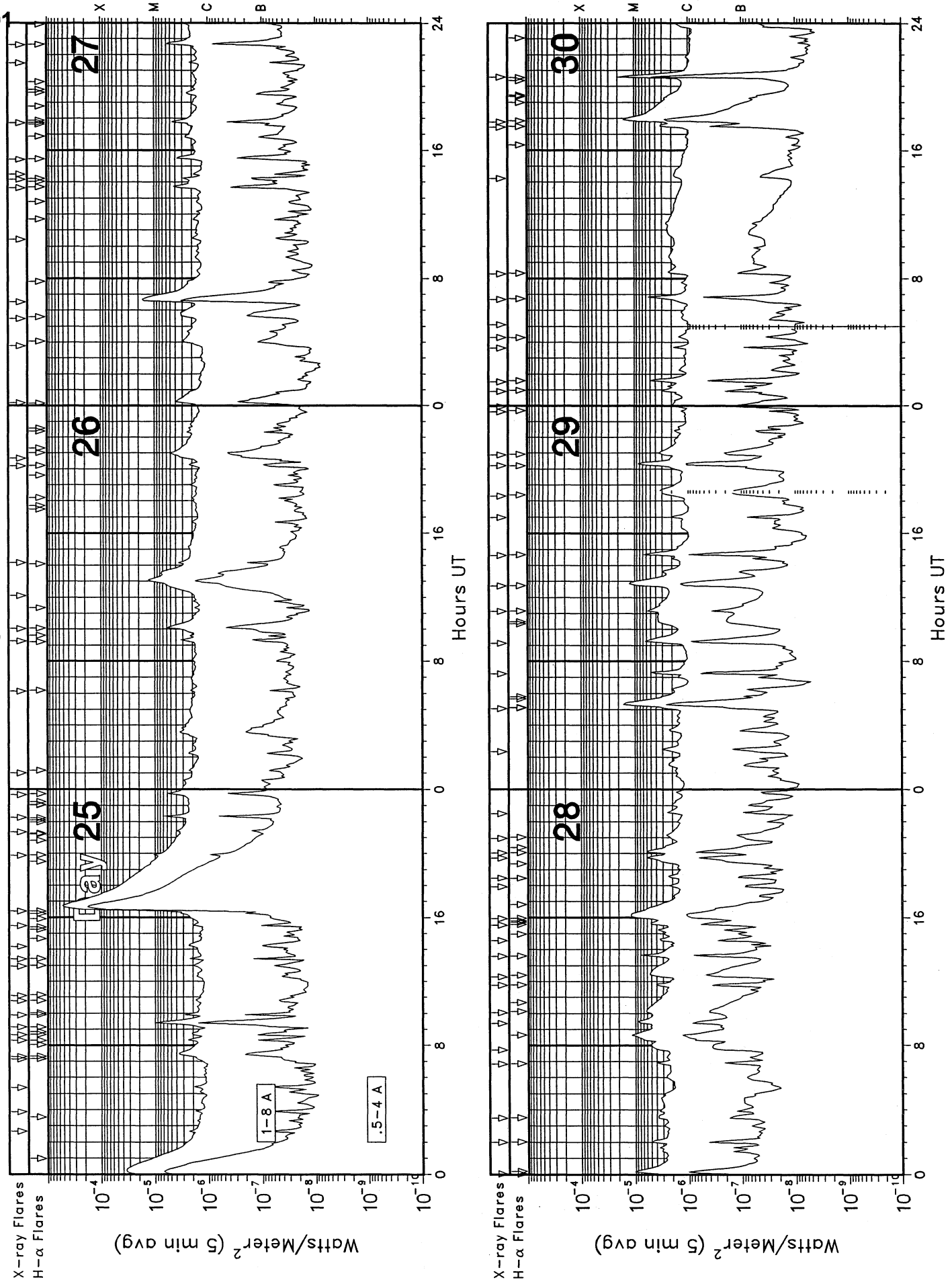


GOES X-RAY DETECTOR

August 2001

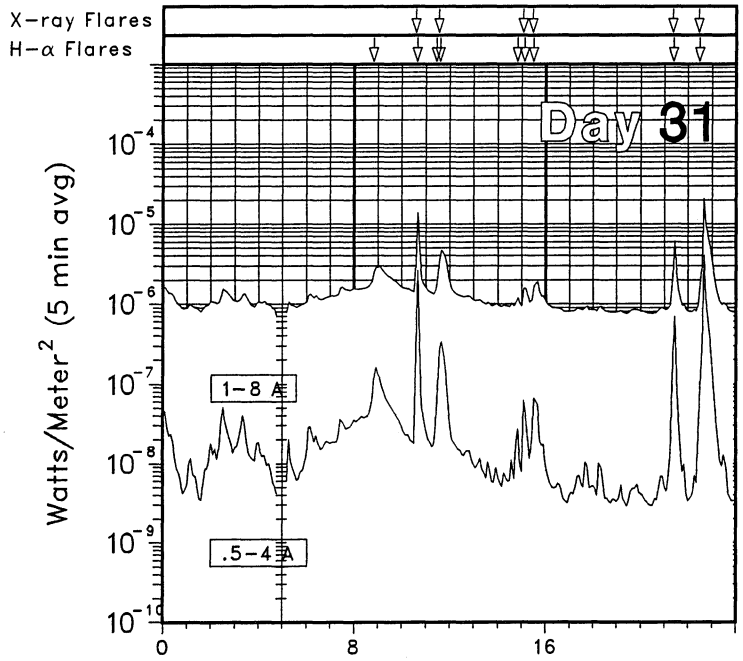





GOES X-RAY DETECTOR
August 2001
X-ray Flares
H-α Flares
Watts/Meter² (5 min avg)
Hours UT
1-8 A
.5-4 A
25
26
27
28
29
30
X
M
C
B
Aug 25

GOES X-RAY DETECTOR

August 2001



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

August 2001

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region	Flux
01	0105	0114	0124				C1.2			1.1E-03
01	0325	0350	0400	S14	E49	SF	C2.4		9561	3.0E-03
01	0509	0515	0520				B5.8			3.5E-04
01	1005	1012	1017				B5.4			3.1E-04
01	1304	1310	1317	S12	E44	SF	B6.4		9561	3.6E-04
01	1724	1735	1747	S14	E43	SF	B4.8		9561	5.4E-04
02	0351	0356	0400				B3.9			1.8E-04
02	0822	0825	0829				B2.8			1.0E-04
02	0944	0950	0952				B3.7			1.6E-04
02	1059	1114	1118				B8.2			5.5E-04
02	1200	1205	1209	N24	E34	SF	C2.4		9563	7.5E-04
02	1225	1238	1257	N17	E52	SF	C2.1		9566	3.1E-03
02	1455	1500	1504	N23	E35	SF	C3.1		9563	1.1E-03
02	1606	1613	1618	N22	E34	SF	C4.8		9563	2.1E-03
02	1742	1746	1748	N23	E32	SF	C2.8		9563	7.9E-04
02	1855	1900	1903	N24	E31	SF	C2.1		9563	7.4E-04
02	2001	2009	2012				C1.8			7.7E-04
02	2013	2017	2021				C3.3			1.2E-03
02	2213	2217	2222				B6.1			2.9E-04
02	2253	2257	2259				B7.3			2.1E-04
03	0110	0115	0117				C1.3			3.5E-04
03	0131	0134	0138				B4.6			1.8E-04
03	0302	0307	0309	N22	E27	SN	M1.5		9563	2.5E-03
03	0425	0431	0441	N16	E41	SF	C1.1		9566	8.8E-04
03	0528	0534	0540	S15	E06	SF	C1.2			7.0E-04
03	0740	0750	0754	N24	E28	SF	B9.6		9563	6.5E-04
03	0853	0902	0912	S13	E18	SF	C1.1		9561	9.4E-04
03	0957	1005	1013	N25	E26	SF	C1.7		9563	1.3E-03
03	1138	1144	1148				C1.6			6.7E-04
03	1636	1646	1653	S22	W20	SF	C1.0		9557	9.8E-04
03	2136	2142	2150	S15	W03	SF	C1.1		9567	7.5E-04
03	2232	2239	2250				B6.1			6.0E-04
04	0204	0209	0211	N22	E13	SF	C2.7		9563	6.2E-04
04	0944	0949	0951	N24	E08	SF	C7.9		9563	1.5E-03
04	1221	1235	1250				C9.6			1.2E-02
04	1837	1846	1854	N16	E24	SF	C2.3		9566	1.8E-03
04	1939	1945	1949	S22	W34	SF	C2.8		9557	1.2E-03
04	2007	2016	2017	N21	E05	SF	C1.0		9563	6.0E-04
04	2253	2257	2259				C1.5			3.5E-04
04	2348	2353	2356	N25	E08	SF	C1.2		9563	5.2E-04
05	0046	0052	0105	S20	W44	SF	C1.4		9557	1.4E-03
05	0112	0114	0117	N16	E19	SF	C1.1		9566	3.3E-04
05	0338	0342	0349	N24	E03	SF	C1.2		9563	7.7E-04
05	0402	0407	0414	S15	W20	SF	C2.3		9567	1.3E-03
05	0512	0515	0517	N20	W01	SF	C1.0		9563	2.9E-04
05	0546	0548	0551	S13	W22	SF	C1.0		9567	3.0E-04
05	0948	0953	0957	N17	E15	SF	C1.5		9566	6.2E-04
05	1039	1047	1054				C2.4			1.6E-03
05	1200	1203	1207				C1.2			4.5E-04
05	1249	1254	1258	N17	E14	SF	C4.1		9566	1.4E-03
05	1320	1325	1329	S23	W46	SF	C2.2		9557	1.0E-03
05	1422	1441	1445	S19	W44	SF	C2.0		9557	1.9E-03
05	1500	1504	1507	S20	W46	SF	C3.5		9557	9.7E-04
05	1522	1531	1536				M1.7		9557	7.2E-03
05	1611	1614	1616				C1.1			2.9E-04
05	1825	1830	1833	S20	W49	SF	C3.3		9557	1.1E-03
05	1948	1953	2000	N18	E09	SF	C1.6		9566	1.0E-03
05	2046	2052	2057	N17	E09	SF	C1.2		9566	6.9E-04
05	2116	2124	2133	S14	W30	1N	C7.1		9567	4.3E-03
05	2216	2224	2229	S20	W49	1N	M4.9		9557	2.2E-02
05	2326	2339	2343	N17	E08	SF	C3.8		9566	1.7E-03
06	0052	0058	0103	S20	W54	SF	C1.4		9557	8.1E-04
06	0559	0601	0603	N23	W12	SF	B8.6		9563	1.9E-04
06	0633	0636	0650	N17	E01	SF	C1.1		9566	1.0E-03
06	0722	0730	0738	S18	W54	SF	C5.5		9557	3.8E-03
06	0759	0803	0806				C2.0			7.6E-04
06	0831	0838	0842	N18	E03	SF	C1.7		9566	1.0E-03
06	0907	0917	0922	S12	E67	SF	C1.1		9570	9.8E-04
06	1208	1216	1233				C1.7			2.2E-03
06	1512	1527	1535				C2.9		9570	2.6E-03
06	2007	2010	2012	S19	W66	SF	C1.4		9557	3.7E-04
06	2240	2245	2250				C1.7			9.2E-04
07	0008	0013	0017	S20	W70	SF	C3.1		9557	1.2E-03
07	0102	0125	0147	S22	W65	SF	C2.5		9557	5.1E-03
07	0225	0228	0231	N17	W08	SF	C1.3		9566	4.5E-04
07	0516	0521	0528	N17	W09	SF	C1.2		9566	8.3E-04
07	0555	0641	0658				C1.3			4.9E-03
07	0726	0737	0747	S20	W71	SF	M1.1		9557	9.6E-03
07	0836	0854	0906	S19	W76	SF	C1.8		9557	2.7E-03
07	1032	1050	1102	S20	W73	1F	C2.7		9557	3.9E-03
07	1112	1115	1120	S20	W62	SF	C2.2		9557	9.9E-04
07	1123	1132	1142	S24	W70	SF	C3.1		9557	3.0E-03
07	1220	1225	1227	S21	W75	SF	C2.3		9557	7.9E-04
07	1233	1303	1310	S21	W81	SF	C2.8		9557	4.3E-03
07	1330	1335	1343				C3.5			2.1E-03
07	1440	1447	1458				C2.8			2.5E-03
07	1530	1541	1558	N26	W27	1F	C2.7		9563	3.6E-03
07	1623	1628	1633	S20	W72	SF	C3.6		9557	1.6E-03
07	1739	1746	1749	N26	W27	SF	C1.2		9563	6.5E-04
07	1752	1755	1801	S17	W13	SF	C1.2		9569	6.6E-04
07	1851	1855	1857				C3.5			7.6E-04
07	1954	2000	2006				C1.9			1.1E-03
07	2112	2133	2154				C4.1			7.6E-03
07	2316	2319	2323				C1.7			6.6E-04
07	2324	2328	2331				C3.8			1.2E-03
07	2351	2355	2358	S18	W83	SF	C1.8		9557	7.0E-04
08	0058	0113	0120				C1.2		9557	1.4E-03
08	0058	0113	0119				C1.2			1.4E-03
08	0205	0209	0211	S15	W59	SF	C1.3		9567	4.3E-04
08	0356	0402	0404	S10	E89	SF	B8.9			4.2E-04
08	0626	0629	0637	S10	E89	SF	C1.0			6.7E-04
08	0706	0711	0715				C3.9			1.5E-03
08	0721	0725	0731	N24	W37	SF	C1.4		9563	7.7E-04
08	0749	0802	0820	S20	W88	SF	C4.5		9557	6.7E-03
08	1029	1032	1034	N26	W39	SF	C2.6		9563	7.8E-04
08	1459	1503	1517	N25	W43	SF	C1.6		9563	1.6E-03
08	1650	1705	1730				C4.2			8.3E-03
08	1917	1922	1938	N15	W31	SF	C2.0		9566	2.4E-03
08	1954	2001	2006	N18	W29	SF	C4.0		9566	2.0E-03
09	0032	0045	0107	S16	W30	SF	C6.0		9569	9.2E-03
09	0243	0244	0245	N23	W52	SF	C1.8		9563	2.1E-04
09	0313	0318	0327	N18	W33	SF	C4.2		9566	3.2E-03
09	0434	0438	0440	N23	W52	SF	C1.9		9563	5.2E-04
09	0604	0608	0611				C2.2			8.1E-04
09	0639	0655	0702				C3.8			3.6E-03
09	0721	0724	0730				C3.1			1.4E-03
09	0808	0815	0827	S13	W76	SF	C2.6		9567	2.4E-03
09	1116	1122	1127				C3.7			2.1E-03
09	1417	1419	1420	N06	W56	SF	B8.9		9562	1.6E-04
09	1822	1834	1847	S17	E19	1F	C7.8		9570	7.7E-03
09	1919	1922	1924	N04	W69	SF	C2.0		9565	5.9E-04
09	2035	2038	2040				C1.4			3.4E-04

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

August 2001

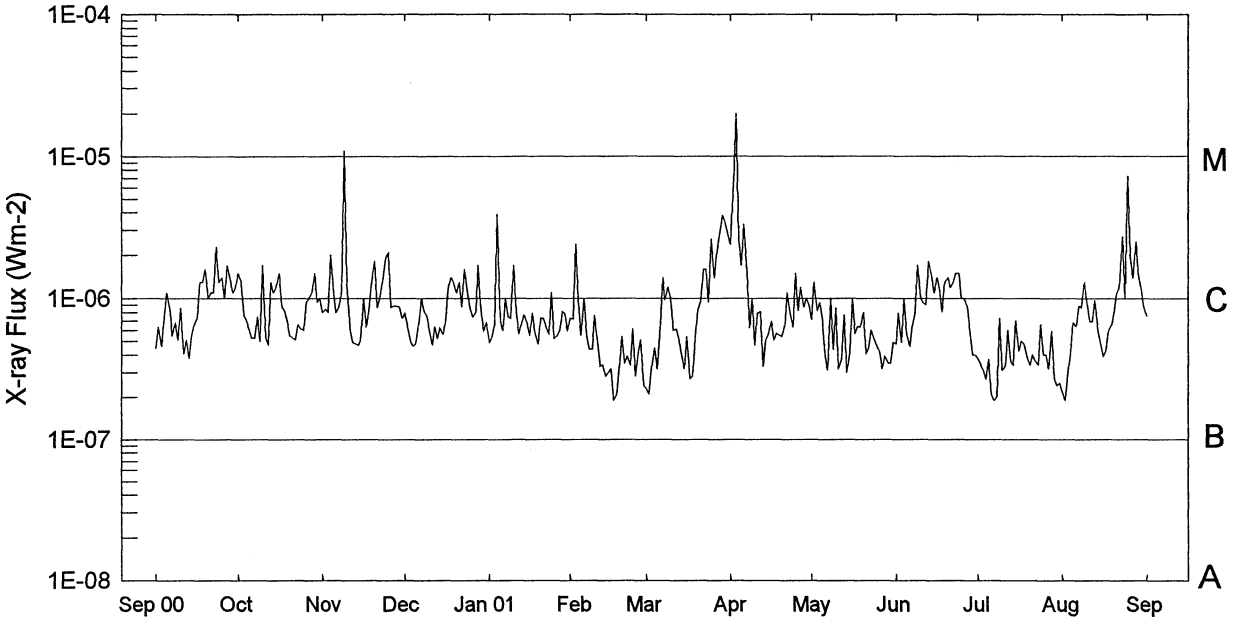
Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region	Flux
10	0041	0055	0106				C1.8			2.4E-03
10	0128	0136	0143	N05	W72	SF	C8.0	9562		4.7E-03
10	0350	0410	0416	N24	W61	SF	C2.2	9563		2.9E-03
10	0553	0554	0556	N17	W49	SF	C1.0	9566		1.8E-04
10	1540	1543	1548				C1.7			7.4E-04
10	1623	1628	1633				C1.0			5.6E-04
10	1840	1857	1904	N23	W70	SF	C2.4	9563		2.9E-03
10	1936	1938	1943				C1.3			5.4E-04
10	2021	2029	2037				C1.6			1.4E-03
10	2120	2127	2132				C1.7			1.0E-03
10	2223	2235	2239				C1.5			1.0E-03
10	2300	2307	2311				C1.9			1.0E-03
10	2347	0000	0005				C1.8			1.3E-03
11	0028	0033	0036	S04	E03	SF	B8.1	9574		3.7E-04
11	0039	0043	0047	N18	W61	SF	C1.6	9566		6.1E-04
11	0049	0054	0058				C1.8	9566		8.5E-04
11	0114	0121	0128				C5.2			2.9E-03
11	0135	0138	0143				C2.9			1.1E-03
11	0352	0356	0401	N21	W59	SF	C1.0	9566		5.1E-04
11	0417	0640	0809				C2.8			2.9E-02
11	0858	0904	0908				C1.7			9.5E-04
11	0949	0954	0958				C1.0			5.4E-04
11	1004	1009	1013				C1.1			5.7E-04
11	1135	1149	1200	N21	W81	SF	C1.2	9563		1.5E-03
11	1223	1227	1233				C1.3			7.1E-04
11	2122	2128	2132				C2.2			9.7E-04
12	0005	0011	0013				C1.5			4.6E-04
12	0438	0441	0444	S04	W13	SF	C1.1	9574		3.7E-04
12	1709	1714	1716				C1.6			5.2E-04
12	1921	1924	1927				C1.0			3.2E-04
12	2018	2027	2030				C1.1			7.4E-04
12	2052	2101	2109				C2.2			1.7E-03
12	2252	2316	0020				C2.7			1.0E-02
13	1343	1405	1427				C4.6			9.2E-03
13	1918	1921	1925	S02	W35	SF	C1.0	9574		3.7E-04
14	0029	0044	0049	S17	E01	SF	C1.0	9579		1.1E-03
14	0934	0944	0949				C9.7			4.1E-03
14	1130	1242	1404				C2.3			1.7E-02
14	1721	1725	1729				C1.1			4.8E-04
15	0233	0243	0256				C3.1			3.0E-03
15	1238	1242	1244	S06	W57	SF	C1.0	9574		3.0E-04
16	0249	0252	0254				B7.6			1.8E-04
16	0951	0957	1008				C3.9			2.6E-03
16	1118	1127	1137	S28	W20	SF	B8.1	9581		8.6E-04
16	1514	1518	1522				B7.6			3.1E-04
16	1740	1746	1753				B8.8			5.6E-04
17	0007	0011	0017	S24	W30	SF	C1.6	9581		7.4E-04
17	0146	0150	0157				B5.5			3.3E-04
17	0247	0301	0314				B8.7			1.2E-03
17	0922	0925	0927				B5.9			1.5E-04
17	1326	1333	1346	N19	E71	SF	B7.5	9585		8.2E-04
17	1514	1521	1530				C1.0			8.8E-04
17	2339	2342	2345				B9.6			3.0E-04
18	0019	0043	0048	N14	E62	SF	C1.0	9585		1.2E-03
18	0103	0112	0116				C1.7			1.0E-03
18	0204	0209	0212				C1.2			5.1E-04
18	0322	0328	0336	N25	E44	SF	C3.5	9582		1.9E-03
18	0355	0403	0405				C2.9			1.1E-03
18	0506	0515	0524	N26	E43	SF	C1.4	9582		1.4E-03
18	0651	0654	0657	N25	E41	SF	C1.9	9582		5.6E-04
18	0828	0832	0835	S15	W52	SF	C1.1	9586		3.8E-04
18	1109	1117	1123	N25	E39	SF	C3.1	9582		1.9E-03
18	1245	1251	1259	N26	E39	SF	C2.8	9582		1.7E-03
18	2155	2158	2209				B9.2			6.8E-04
19	2200	2203	2212	N11	W29	SF	C1.2	9575		8.2E-04
20	0250	0302	0316	N15	E33	SF	C1.2	9585		1.8E-03
20	0516	0525	0534	N28	E23	SF	C2.0	9582		1.8E-03
20	0817	0822	0825	N28	E20	1F	C3.6	9582		1.2E-03
20	1919	1937	2102				C2.3			1.2E-02
21	0010	0018	0028				C3.0			2.9E-03
21	0156	0200	0206	N15	E24	SF	C1.3	9585		7.8E-04
21	0331	0337	0346				C1.9			1.5E-03
21	0721	0748	0813				C1.6			4.3E-03
21	1035	1303	1434				C2.7			3.0E-02
21	2052	2057	2102				C1.9			1.0E-03
21	2151	2157	2200				M1.5			4.7E-03
22	0502	0507	0511				C6.2			2.5E-03
22	0735	0742	0752				C4.2			3.3E-03
22	0904	0908	0912				C6.6			2.2E-03
22	0924	0937	0945				C3.9			3.7E-03
22	1158	1216	1229				M1.0			1.2E-02
22	1432	1437	1445				C2.5			1.7E-03
22	1502	1506	1510	S17	E77	SF	C3.7	9591		1.4E-03
22	1554	1558	1601				C2.8			1.0E-03
22	1725	1737	1750	S18	E69	SF	C5.4	9591		7.1E-03
22	1819	1826	1835				C4.5			3.8E-03
22	1844	1849	1856	S19	E73	SF	C7.5	9591		4.4E-03
22	2112	2117	2122	S18	E73	SF	C7.0	9591		2.8E-03
22	2146	2150	2155	S18	E67	SF	C3.5	9591		1.5E-03
22	2229	2256	2323				C5.8	9591		1.5E-02
22	2357	0007	0012	S19	E74	SF	C6.9	9591		4.7E-03
23	0023	0030	0039	S21	E72	SF	C7.0	9591		5.7E-03
23	0201	0205	0209				C6.6			2.7E-03
23	0325	0339	0347				C6.9			5.9E-03
23	0508	0513	0517				C8.3			2.9E-03
23	0755	0800	0804				C3.0			1.5E-03
23	0944	0949	0958				C3.3			2.5E-03
23	1112	1116	1122				C4.8			2.2E-03
23	1342	1348	1358				C5.9	9591		3.8E-03
23	1434	1440	1442	S18	E68	SF	C3.3	9591		1.0E-03
23	1752	1801	1814	S21	E63	SF	C3.8	9591		4.1E-03
24	0019	0055	0101				C5.4			7.7E-03
24	0622	0646	0703				C3.8			7.8E-03
24	0848	0913	0941	S15	E57	SF	M1.1	9591		3.0E-02
24	1315	1319	1322	S18	E52	SF	C4.3	9591		1.6E-03
24	1330	1336	1350	S20	E55	1F	C5.7	9591		5.8E-03
24	1508	1512	1516	S18	E50	SF	C4.8	9591		1.8E-03
24	1658	1703	1709				C3.8			2.2E-03
24	1750	1802	1812				C4.0			4.2E-03
24	1829	1908	1918				C5.5			1.2E-02
24	2005	2048	2101				C7.8			1.4E-02
24	2113	2118	2121				C7.0			2.8E-03
24	2231	2254	2313				M1.2			2.2E-02
24	2347	0017	0044	S18	E44	SF	M3.5	9591		8.6E-02
25	0239	0242	0244				C3.2			7.1E-04
25	0351	0355	0358				C2.0			7.3E-04
25	0522	0526	0530				C1.9			8.5E-04

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

August 2001

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region	Flux
25	0707	0710	0713	S20	E42	SF	C	1.8	9591	6.0E-04
25	0717	0732	0742	S18	E37	SF	C	3.6	9591	4.5E-03
25	0819	0823	0826	S18	E32	SF	C	2.6	9591	9.9E-04
25	0840	0844	0848	S18	E34	SF	C	2.5	9591	1.0E-03
25	0909	0928	0932	S18	E31	SF	M	1.2	9591	6.3E-03
25	0953	0957	1000	S17	E31	SF	C	3.7	9591	1.1E-03
25	1047	1049	1051	S18	E33	SF	C	1.9	9591	4.2E-04
25	1106	1108	1110				C	1.6		3.6E-04
25	1257	1301	1307	S18	E32	SF	C	2.0	9591	1.1E-03
25	1323	1327	1329	S17	E31	SF	C	3.2	9591	7.5E-04
25	1411	1418	1426				C	2.3		2.0E-03
25	1529	1533	1537	S18	E32	SF	C	2.2	9591	9.2E-04
25	1623	1645	1704	S17	E34	3B	X	5.3	9591	8.2E-01
25	1952	1956	1959	S19	E37	SF	M	1.1	9591	4.3E-03
25	2121	2126	2130	S19	E24	SF	C	4.0	9591	2.0E-03
25	2216	2223	2225	S10	W49	SF	C	9.6	9587	2.9E-03
25	2341	2345	2349	S19	E25	SF	C	7.0	9591	2.5E-03
26	0100	0114	0116	S09	W52	SF	C	2.5	9587	2.1E-03
26	0608	0611	0615	S19	E21	SF	C	2.2	9591	8.7E-04
26	0916	0920	0925	S18	E21	SF	C	3.4	9591	1.6E-03
26	1002	1007	1016	S19	E16	SF	C	6.1	9591	4.2E-03
26	1206	1306	1323				M	1.3		2.8E-02
26	1410	1413	1415	S22	E27	SF	C	4.0	9591	1.1E-03
26	2011	2015	2023	S22	E23	SF	C	2.4	9591	1.5E-03
26	2039	2100	2112	S21	E23	SF	C	5.7	9591	7.6E-03
27	0010	0017	0032	S17	E19	SF	C	4.1	9591	4.6E-03
27	0345	0405	0437	S17	E18	SF	C	3.0	9591	7.2E-03
27	0529	0551	0604	S19	E12	SF	C	3.2	9591	5.7E-03
27	0631	0638	0656				M	1.9		2.0E-02
27	1026	1030	1038				C	2.0		1.3E-03
27	1338	1345	1351	S17	E07	SF	C	4.6	9591	2.8E-03
27	1411	1414	1418	S19	E14	SF	C	3.3	9591	1.2E-03
27	1430	1433	1436				C	2.1		6.8E-04
27	1525	1534	1540	S19	E14	SF	C	3.9	9591	2.7E-03
27	1743	1746	1753	S18	E05	SF	C	5.0	9591	2.5E-03
27	2127	2131	2136				C	2.2		1.1E-03
27	2236	2244	2249	S21	E08	SN	C	6.6	9591	3.7E-03
28	0002	0012	0023	S13	E06	1N	M	1.0	9591	9.6E-03
28	0159	0203	0208	N16	E78	SF	C	6.1	9600	2.6E-03
28	0329	0333	0344	S10	W81	SF	C	4.0	9587	3.3E-03
28	0650	0658	0701	N13	E76	SF	C	4.2	9600	2.4E-03
28	0743	0840	0853	N12	E80	SF	M	1.2	9601	2.8E-02
28	0923	0929	0938				C	9.0		7.1E-03
28	1003	1010	1022	S20	E02	SF	C	6.3	9591	6.9E-03
28	1145	1149	1153	N15	E78	SF	C	5.1	9600	2.0E-03
28	1217	1229	1301	S12	W88	SF	C	5.5	9587	1.2E-02
28	1335	1341	1344	S13	W85	SF	C	9.4	9587	3.5E-03
28	1434	1438	1443				C	4.4		1.8E-03
28	1532	1539	1550	N16	E66	SF	C	5.7	9600	4.9E-03
28	1556	1611	1626	N15	E65	SF	M	1.1	9600	1.8E-02
28	1755	1802	1806				C	2.2		1.4E-03
28	1828	1835	1841	N10	E76	SF	C	2.4	9601	1.7E-03
28	1942	1947	1951	N16	E78	SF	C	6.1	9600	3.0E-03
28	2002	2008	2017	N15	E66	SF	C	6.5	9600	4.7E-03
28	2056	2111	2117	N12	E74	SF	C	2.6	9601	2.9E-03
28	2230	2236	2247				C	2.5		2.2E-03
29	0221	0231	0238				C	3.1		2.5E-03
29	0503	0523	0534				M	1.6	9600	1.7E-02
29	0713	0719	0724				C	6.7		2.8E-03
29	0908	0917	0931				C	6.5		6.4E-03
29	1108	1113	1117	S16	W18	1F	C	6.2	9591	2.9E-03
29	1242	1253	1307	N18	E65	1F	M	1.2	9600	1.5E-02
29	1437	1441	1449	N16	E66	SF	C	7.4	9601	3.7E-03
29	1658	1704	1708				C	2.1		1.1E-03
29	1819	1841	1850	N18	E58	1F	C	3.3	9600	3.9E-03
29	2013	2019	2028	N16	E56	1N	C	9.6	9600	6.4E-03
29	2053	2100	2115	S17	E39	SF	C	3.4	9599	4.0E-03
29	2337	2342	2345	S21	W18	SF	C	1.3	9591	6.0E-04
29	2355	0005	0027				C	1.9		3.4E-03
30	0053	0059	0105	N12	E59	SF	C	3.3	9601	1.9E-03
30	0130	0139	0143	N12	E52	SF	C	5.4	9601	3.0E-03
30	0337	0342	0345				C	2.0		7.6E-04
30	0418	0421	0426	S19	W27	SF	C	1.5	9591	6.8E-04
30	0506	0554	0620				C	1.3		5.1E-03
30	0641	0652	0655	S20	W28	SF	C	6.0	9591	3.2E-03
30	0817	0828	0847				C	2.3		3.5E-03
30	1413	1429	1452				C	1.8		3.9E-03
30	1727	1734	1741				C	3.7		2.4E-03
30	1745	1757	1811	S21	W28	2N	M	1.5	9591	1.7E-02
30	2034	2038	2041	N15	E44	1N	M	3.0	9601	7.6E-03
31	1035	1042	1045	N15	E37	SN	M	1.6	9601	5.6E-03
31	1133	1142	1152	N17	E31	1F	C	4.8	9601	4.6E-03
31	1503	1509	1517	N13	E30	SF	C	1.7	9601	1.2E-03
31	1528	1540	1545	N13	E29	SF	C	2.0	9601	1.8E-03
31	2120	2125	2128	N16	E37	1N	C	8.6	9601	2.2E-03
31	2227	2242	2245	N14	E25	2N	M	2.9	9601	8.5E-03

Preliminary GOES Satellite Daily X-Ray Background
Sep 2000 - Aug 2001



Day	Sep 00	Oct	Nov	Dec	Jan 01	Feb	Mar	Apr	May	Jun	Jul	Aug
1	B4.5	C1.5	B8.0	B7.9	B4.9	B7.3	B2.3	C2.4	B7.1	B4.8	B3.8	B2.2
2	B6.3	C1.3	B8.4	B6.5	B5.4	B7.2	B2.1	C6.5	C1.3	B7.9	B3.4	B1.9
3	B4.6	B7.7	B8.0	B5.0	B6.5	C2.4	B3.2	M2.0	B8.2	B4.9	B3.1	B3.0
4	B7.5	B7.0	C2.0	B4.6	C3.9	B9.8	B4.5	C2.6	B9.3	C1.0	B2.7	B4.1
5	C1.1	B6.1	C1.2	B4.8	B6.9	B5.5	B3.2	C1.7	B7.1	B5.6	B3.7	B6.8
6	B8.2	B5.3	B8.0	B6.9	B6.0	C1.0	B5.5	C3.3	B4.0	B4.6	B2.1	B6.4
7	B5.5	B5.3	B8.9	C1.0	C1.0	B5.5	C1.4	C1.5	B3.1	B6.6	B1.9	B8.9
8	B6.8	B7.4	C1.1	B8.1	B7.4	B4.4	B9.8	B6.2	C1.0	B7.9	B2.0	B8.7
9	B5.1	B5.0	M1.1	B7.7	B7.3	B4.4	C1.2	C1.0	B4.4	C1.7	B7.3	C1.3
10	B8.6	C1.7	C1.3	B5.8	C1.7	B7.6	C1.0	B4.7	B8.6	C1.0	B3.1	C1.0
11	B4.1	B5.3	B6.1	B4.7	B8.0	B5.0	B6.0	B7.9	B3.2	B9.3	B3.3	B6.9
12	B5.1	B4.7	B4.9	B6.4	B5.6	B3.3	B6.1	B8.1	B3.7	B9.0	B6.0	B6.9
13	B3.8	C1.3	B4.8	B5.2	B6.7	B3.4	B5.1	B3.3	B7.7	C1.8	B3.6	B9.7
14	B5.5	C1.1	B4.7	B6.2	B7.7	B2.8	B3.9	B5.1	B3.0	C1.5	B3.4	B5.9
15	B6.7	C1.2	B5.1	B5.6	B6.7	B3.0	B3.2	B5.5	B4.2	C1.1	B7.0	B4.8
16	B7.4	C1.5	B9.9	B7.2	B5.5	B3.2	B5.4	B6.9	C1.0	C1.4	B4.3	B3.9
17	C1.3	B8.8	B6.3	C1.2	B7.9	B1.9	B2.7	B5.1	B5.7	C1.2	B5.0	B4.3
18	C1.3	B8.2	B8.3	C1.4	B5.8	B2.1	B2.8	B5.7	B6.4	B8.1	B4.8	B5.9
19	C1.6	B6.8	C1.4	C1.3	B4.8	B3.3	B5.2	B5.5	B6.3	C1.3	B3.8	B6.5
20	C1.0	B5.5	C1.8	C1.1	B7.3	B5.4	B8.2	B5.4	B8.0	C1.4	B3.4	B8.1
21	C1.1	B5.3	B8.7	C1.3	B7.3	B3.5	B9.6	B6.4	B4.1	C1.2	B4.0	C1.1
22	C1.1	B5.1	C1.0	B8.8	B6.2	B3.9	C1.6	C1.1	B4.5	C1.3	B3.6	C1.2
23	C2.3	B6.6	C1.4	C1.6	B5.6	B3.4	C1.6	B8.1	B6.0	C1.5	B3.4	C2.7
24	C1.3	B6.1	C1.9	C1.1	C1.1	B6.1	B9.4	B6.3	B5.3	C1.5	B6.6	C1.0
25	C1.4	B6.0	C2.1	B8.4	B5.2	B2.8	C2.6	C1.5	B4.6	C1.0	B4.0	C7.2
26	C1.0	B9.4	B8.7	B7.4	B5.4	B4.1	C1.4	B8.2	B4.2	C1.0	B4.0	C2.0
27	C1.7	C1.0	B8.9	B8.1	B5.9	B5.1	C2.1	C1.2	B3.2	B8.8	B3.2	C1.4
28	C1.4	C1.1	B8.9	C1.7	B8.1	B2.4	C2.8	B8.8	B3.9	B6.5	B5.9	C2.5
29	C1.1	C1.5	B8.7	B8.1	B7.8		C3.8	C1.0	B3.5	B4.0	B2.7	C1.4
30	C1.2	B9.4	B7.3	B5.9	B5.9		C3.4	B9.0	B3.5	B4.0	B2.4	C1.2
31		C1.0		B6.8	B7.4		C2.8		B4.9		B2.5	B8.7

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
01	DSF	0917U	0031U	S11	E26	08	3.3		20	0	0	E	LEAR		
01	DSF	0917U	0031U	S30	W09	07	31.7		10	0	0	E	LEAR		
01	DSD	1010	1040	N06	E58	08	5.8	1	07	9	9	V	KHAR		
01	DSF	1653U	0528U	S11	E22	08	3.3		08	0	0	E	SVTO		
01	DSF	1653U	0528U	S21	E31	08	4.1		08	0	0	E	SVTO		
01	DSF	1653U	0528U	S35	W06	08	1.2		09	0	0	E	SVTO		
01	DSF	1653U	0528U	S46	E37	08	4.8		10	0	0	E	SVTO		
02	DSF	0014U	1347U	S46	E32	08	4.7		07	0	0	E	HOLL		
02	DSF	0939U	2353U	N29	E35	08	5.1		18	0	0	E	LEAR		
02	DSF	1649U	0603U	N41	E42	08	6.1		11	0	0	E	SVTO		
02	DSF	1652U	1115U	N45	E46	08	6.5		17	0	0	E	RAMY		
03	DSD	0830E	0840D	S20	W40	07	31.3	1	02	9	9	V	KHAR		
04	DSD	0930	1010D	S22	W56	07	31.1	1	02	7	9	V	KHAR		
04	DSD	0956	1010D	N22	E13	08	5.4	2	14	9	9	V	KHAR		
05	DSF	0029U	1339U	S05	W26	08	3.1	2	07	0	0	E	HOLL		
05	DSF	0209	0505	S44	W10	08	4.3	3	18	0	0	E	LEAR		
05	BSL	1002	1015	N11	W90	07	29.7	1	03	9	9	V	KHAR		
05	DSD	1044	1110	S12	W21	08	3.9	1	02	0	9	V	KHAR		
06	ADF	1040E	1055	S17	E08	08	7.0	1	03	3	9	V	KHAR		
07	DSD	0955E	1000	S17	W03	08	7.2	1	02	9	9	V	KHAR		
07	APR	1150	1206	S20	W90	07	31.6	1	04	9	9	V	KHAR		
08	APR	0900E	0940	S24	W90	08	1.4	1	05	9	9	V	KHAR		
08	APR	0926	1000	S14	W90	08	1.6	1	03	9	9	V	KHAR		
08	DSD	1045U	1110	N19	W41	08	5.3	1	08	3	9	V	KHAR		
08	ADF	1122	1150D	N23	W49	08	4.7	1	05	9	3	V	KHAR		
09	BSL	0913E	0915D	S19	W90	08	2.5	1	9			P	WROC		
09	SPY	1045	1101D	S14	W90	08	2.6	2	10			P	WROC		
09	DSF	1731U	0515U	S31	E35	08	12.5		10	0	0	E	SVTO		
09	EPL	1943E	2015	S30	E90	08	16.9			0	0	E	HOLL		
10	ADF	0950E	1015	S03	E15	08	11.5	1	04	9	9	V	KHAR		
10	ADF	1032	1108	S03	E12	08	11.3	1	04	9	9	V	KHAR		
10	BSL	1135	1212D	N21	E90	08	17.4	1	03	9	9	V	KHAR		
10	BSL	1152	1205	N20	E90	08	17.4	1	02	9	9	V	KHAR		
11	DSF	0542U	2325U	S29	E17	08	12.6	2	10	0	0	E	LEAR		
11	APR	0908E	0955	N19	W90	08	4.5	1	04	9	9	V	KHAR		
11	APR	0935U	0955	S18	W90	08	4.5	1	03	9	9	V	KHAR		
11	ADF	0956	1014	S08	E03	08	11.6	1	04	3	9	V	KHAR		
11	BSL	0958	1009	N20	W90	08	4.5	1	10	9	9	V	KHAR		
11	DSD	1019	1055	N17	W80	08	5.3	1	04	9	9	V	KHAR		
11	BSL	1035	1045	N14	W90	08	4.6	1	10	9	9	V	KHAR		
11	DSF	1559U	0508U	S21	E06	08	12.1		08	0	0	E	SVTO		
12	SPY	0920E	1010	N24	W90	08	5.4	2	25	9	9	V	KHAR		
12	APR	1010	1045	N32	E90	08	19.5	2	22	9	9	V	KHAR		
12	BSL	1020E	1040D	N28	E90	08	19.5	3		0	0	E	SVTO		
12	BSL	1102U	1118	N17	W90	08	5.6	1	05	9	9	V	KHAR		
12	APR	1115U	1135	N02	W90	08	5.7	1	08	9	9	V	KHAR		
14	EPL	0950E	1032	N38	E90	08	21.7	2	29			P	WROC		
14	BSL	0956E	1023	N40	E90	08	21.7			9	9	E	SVTO		Normal Emission 1/3
14	DSF	1754	2046	N37	E17	08	16.1	3	07	0	0	E	HOLL		
15	APR	0759E	1100	N20	E90	08	22.2	1	3			P	WROC		
16	APR	0821E	0952D	S54	W90	08	8.6	1	6			P	WROC		
17	DSF	1624U	1100U	N32	E31	08	20.1		16	0	0	E	SVTO		
17	DSF	1630U	1143U	N33	E29	08	20.0		09	0	0	E	RAMY		
18	APR	1220E	1238	S18	E90	08	25.4	1	07	9	9	V	KHAR		

ACTIVE PROMINENCES AND FILAMENTS

AUGUST 2001

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
18	DSF	1715U	1111U	S20	W34	08	16.1		04	0	0	E	RAMY		
20	BSL	1058	1115	S18	W90	08	13.6	1	02	9	9	V	KHAR		
21	BSL	0900E	0920	S21	E90	08	28.3	1	07	9	9	V	KHAR		
21	BSL	1050	1122D	S16	E90	08	28.3			9	9	E	SVTO		
21	BSL	1053E	1124D	S13	E90	08	28.2			9	9	E	RAMY		
22	DSF	0858U	2336U	S15	W48	08	18.7		16	0	0	E	LEAR		
22	DSF	1631U	1659U	N27	W05	08	22.3		08	0	0	E	RAMY		
23	DSF	0045U	1340U	N27	W09	08	22.3	3	08	0	0	E	HOLL		
23	DSF	1340U	0000	N41	W40	08	20.3	3	12	0	0	E	HOLL		
23	DSF	1914U	1057U	N14	E08	08	24.4		11	0	0	E	RAMY		
24	EPL	0825E	0909	N13	E90	08	31.1	2	10			P	WROC		
24	ASR	0922E	1025D	N27	E90	08	31.4	1	6			P	WROC		
25	APR	0903E	1211D	N12	E90	09	1.1	1	6			P	WROC		
25	APR	0903E	1211D	N39	E90	09	1.7	1	4			P	WROC		
25	APR	0935E	1110D	S83	E90	09	2.8	1	11			P	WROC		
26	APR	0859E	1244D	N19	E90	09	2.2	1	6			P	WROC		
28	APR	0931E	1047D	S10	W90	08	21.6	1	6			P	WROC		
28	DSF	2136U	1724U	N02	E24	08	30.7	1	07	0	0	E	HOLL		
28	DSF	2359	0026	S15	E01	08	29.1	3	06	0	0	E	HOLL	9591	
30	DSF	0920U	2346U	N15	W26	08	28.4		07	0	0	E	LEAR		

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

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

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

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

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

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

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.

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