MAY 2001 NUMBER 681 - Part II

Solar-Geophysical Data comprehensive reports

Data for November 2000 and Miscellaneous
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MAY 2001 NUMBER 681 - Part II

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Data for November 2000 and Late Data

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SOLAR-GEOPHYSICAL DATA

Number 681

(Issued in Two Parts)

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CONTENTS

PART I (PROMPT REPORTS) Page

PART II (COMPREHENSIVE REPORTS) Page

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	SEP 00	OCT	NOV	DEC	JAN 01	FEB	MAR	APR
A.	SOLAR AND INTERPLANETARY								
A.1	Sunspot Drawings	675A 48	676A 48	677A 52	678A 54	679A 44	680A 56	681A 52	
A.2aa	International Provisional Sunspot Numbers	674A 25	675A 27	676A 26	677A 29	678A 28	679A 26	680A 29	681A 26
A.2c	American Sunspot Numbers	674A 25	675A 27	676A 26	677A 29	678A 28	679A 26	680A 29	681A 26
A.3a	Mt. Wilson Magnetograms	675A 48	676A 48	677A 52	678A 54	679A 44	680A 56	681A 52	
A.3b	Sunspot Mag Class and Regions	675A 95	676A 96	677A 99	678A104	679A 92	680A 98	681A100	
A.3c	Kitt Peak Magnetograms	675A 48	676A 48	677A 52	678A 54	679A 44	680A 56	681A 52	
A.3d	Mean Solar Magnetic Field (Stanford)	674A 41	675A 37	676A 39	677A 41	678A 39	679A 33	680A 45	681A 41
A.3e	Stanford Magnetograms	675A 48	676A 48	677A 52	678A 54	679A 44	680A 56	681A 52	
A.4	H-alpha Filtergrams	675A 48	676A 48	677A 52	678A 54	679A 44	680A 56	681A 52	
A.5d	Photometric Ca II Faculae (San Fernando)	Jan 92-Dec 96 in 631B 22; 1997-1998 in 663B 66							
A.6c	Stanford Solar Mag Field Synoptic Maps	675A 42	676A 42	677A 46	678A 42	679A 38	680A 50	681A 46	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps	675A 47	676A 47	677A 51	678A 52	679A 43	680A 55	681A 51	
A.6f	Active Prominences and Filaments	679B 59	680B 37	681B 40					
A.6g	Sac Peak Coronal Line Synoptic Maps	675A 44	676A 44	677A 48	678A 46	679A 40	680A 52	681A 48	
A.6h	Photometric White Light (San Fernando)	Jul-Dec 96 630B 32; 1997-1998 in 663B 51							
A.7h	Coronal Line Emission (Sac Peak)	675A 48	676A 48	677A 52	678A 54	679A 44	680A 56	681A 52	
A.7j	Coronal Hole Daily Maps (NSO/KP)	675A 86	676A 87	677A 90	678A 93	679A 83	680A 91	681A 91	
A.7k	Coronal Index (Slovak Academy)	1939-1996 in 644B 28							
A.8aa	2800 MHz- Solar Flux (Penticton)	674A 25	675A 27	676A 26	677A 29	678A 28	679A 26	680A 29	681A 26
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	674A 25	675A 27	676A 26	677A 29	678A 28	679A 26	680A 29	681A 26
A.8g	Adjusted Daily Solar Fluxes (Learmonth)	674A 25	675A 27	676A 26	677A 29	678A 28	679A 26	680A 29	681A 26
A.10g	Nancay Radioheliograph - 164&327 MHz	675A139	676A134	677A143	678A140	679A113	680A126	681A142	
A.10h	Nobeyama Radioheliograph Maps - 17 GHz	675A 90	676A 90	677A 94	678A 98	679A 86	680A 93	681A 95	
A.11g	Solar X-ray GOES (graphs/event table)	679B 51	680B 28	681B 32					
A.11k	Solar UV NOAA-9	May 86-Dec 88 in 566B 84							
A.11l	Solar UV NIMBUS7	Nov 78-Oct 84 in 542B 82							
A.11m	Solar UV SOLSTICE (UARS)	Oct 91-Sep 94 in 607B 46							
A.11n	Solar YOHKOH Soft X-ray Images	675A 78	676A 79	677A 82	678A 85	679A 75	680A 84	681A 83	
A.11o	Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
A.12g	Solar Particles (GOES-7)	674A 4	675A 4	676A 4	677A 4	678A 4	679A 4	680A 4	681A 4
A.12h	Interplanetary Particles (SAMPEX)	Jul 95-Dec 96 in 632B 22; Jan-Dec 97 in 647B 33							
A.13e	Solar Plasma (IMP-8)	679B 60	680B 38	681B 41					
A.16c	ERBS, NOAA-9 & -10 Solar Irradiance	ERBS Oct 84-Jun 00 in 671B 36							
A.16d	UARS Solar Irradiance	Oct 91-Dec 97 in 642B 32							
A.16e	VIRGO/SOHO Solar Irradiance	Jan 96-Sep 00 in 678B 46							
A.17c	Inferred Interplanetary Mag Field	1984-1988 data in 542A168; 1989-Jan 94 in 611A118							
A.17	IMP-8 Interplanetary Mag Field	----------	----------	----------					
C.	SOLAR FLARE-ASSOCIATED EVENTS								
C.1a	H-alpha Flares	674A 28	675A 30	676A 29	677A 32	678A 31	679A 29	680A 32	681A 29
C.1ba	H-alpha Flare Groups	679B 4	680B 4	681B 4					
C.1d	Flare Patrol Obsevations	679B 19	680B 14	681B 14					
C.1h	H-alpha Flare Index (ImpxDur)	Jan 76-Dec 85 in 639B 26; Jan 86-Oct 96 in 635B 24; Jan 96-Dec 98 in 665B 63							
C.3	Radio Bursts Fixed Frequency	679B 21	680B 15	681B 16					
C.3	Radio Bursts Fixed Frequency Selected	674A 37	675A 36	676A 36	677A 40	678A 37	679A 32	680A 42	681A 37
C.4	Radio Bursts Spectral	675A120	676A120	677A126	678A125	679A115	680A119	681A127	
C.6	Sudden Ionospheric Disturbances	675A117	676A118	677A124	678A123	679A113	680A118	681A123	
D.	GEOMAGNETIC EVENTS								
D.1a	Geomagnetic Indices	675A149	676A144	677A153	678A150	679A139	680A133	681A150	
D.1ba	27-day Chart of Kp Indices	679A142	679A142	679A142	679A142	679A141	680A135	681A152	
D.1cb	Monthly Mean aa Indices	675A152	676A147	677A156	678A153	679A143	680A136	681A153	
D.1d	Principal Magnetic Storms	675A157	676A152	677A161	678A158	679A150	680A141	681A158	
D.1f	Sudden Commencements/Flare Effects	675A158	676A153	677A162	678A159	679A151	680A142	681A159	
D.1g	Equatorial Indices Dst	675A154	676A149	677A158	678A155	679A147	680A138	681A155	
D.1i	Polar Cap (PC) Index	675A155	676A150	677A159	678A156	679A148	680A139	681A156	
F.	COSMIC RAYS								
F.1b	Cosmic Ray Neutron Cts (Climax)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1h	Cosmic Ray Neutron Cts (Thule)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1i	Cosmic Ray Neutron Cts (Kiel)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1n	Cosmic Ray Neutron Cts (Beijing)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1m	Cosmic Ray Neutron Cts (Haleakala)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1o	Cosmic Ray Neutron Cts (Moscow)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1p	Cosmic Ray Neutron Cts (Calgary)	675A141	676A136	677A145	678A142	679A131	680A128	681A145	
F.1r	Cosmic Ray Neutron Cts (Goose Bay)								
H.	MISCELLANEOUS								
H.60	ISES Alert Periods	674A 19	675A 20	676A 19	677A 20	678A 20	679A 18	680A 20	681A 19

The entry "675A 48" under Sep 00, for example, means that the sunspot drawings for Sep 00 appear in SOLAR-GEOPHYSICAL DATA No. 675, Part I, and that they begin on page 48. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

CONTENTS

Comprehensive Reports Number 681 Part II

DATA FOR **NOVEMBER 2000**

Hα SOLAR FLARES

NOVEMBER 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp	Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		01	0128		0211	No Flare Patrol														
0001	URUM	01	0220	0223	0231	N23	W50	9206	10	28.3	11	SF				C		16	0.3	D
		01	0812		0825	No Flare Patrol														
0002	SVTO	01	1040	1042	1049	N20	E44	9218	11	4.8	9	SF		3		E		11		
		01	1123		1201	No Flare Patrol														
0003	RAMY	01	1302	1308	1320	N17	E44	9218	11	4.9	18	SF		3		E		48		
		01	1340		1351	No Flare Patrol														
0004	RAMY	01	1536	1537	1540	N06	E24	9212	11	3.4	4	SF		3		E		16		F
0005	HOLL	01	1834	1835	1839	N20	E40	9218	11	4.8	5	SF		3		E		32		E
0006	HOLL	01	1840	1844	1854	N20	E42	9218	11	5.0	14	SF		3		E		42		F
0007	HOLL	01	2130	2133	2147	N19	E42	9218	11	5.1	17	SF		3		E		17		F
0008	HOLL	01	2301	2303	2311	N19	E39	9218	11	4.9	10	SF		3		E		17		F
		02	0004		0018	No Flare Patrol														
		02	0037		0100	No Flare Patrol														
		02	0150		0209	No Flare Patrol														
0009	LEAR	02	0721	0725	0729	N20	E34	9218	11	4.9	8	SF		3		E		18		F
0010	LEAR	02	0821	0823	0828	S11	E07	9214	11	2.9	7	SF		3		E		25		
		02	1326		1327	No Flare Patrol														
0011	HOLL	02	1836	1838	1843	N13	E14	9212	11	3.8	7	SF		3		E		18		F
0012	RAMY	02	1856	1858	1907	N01	E13	9213	11	3.7	11	SF		3		E		18		F
0013	LEAR	03	0423	0425	0428	N01	E02	9213	11	3.3	5	SF		3		E		27		
0014	URUM	03	0440	0500	0520	N31	W08		11	2.6	40	2B				C		530	6.2	E
0015	LEAR	03	0444	0512	0532	N07	W02	9212	11	3.0	48	SF		3		E		54		F
0016	LEAR	03	0459	0511	0523	N07	E05	9213	11	3.6	24	SF		3		E		61		F
		03	1112		1204	No Flare Patrol														
0017	RAMY	03	1323	1326	1334	S28	W25	9210	11	1.6	11	SF		3		E		67		
0018	RAMY	03	1449	1451	1513D	S10	W08	9214	11	3.0	24D	SF		3		E		14		F
0019	HOLL	03	1851	1852	1920	N02	W02	9213	11	3.6	29	SF		3		E		36		F
0020	HOLL	03	2015	2017	2023	S21	W41	9209	10	31.7	8	SF		3		E		42		F
0021		03	2059	21002	2122	S20	W42	9209	10	31.7	23	SF						63		F
	RAMY	03	2059	2100	2116D	S20	W42	9209	10	31.7	17D	SF		3		E		27		
	HOLL	03	2059	2102	2122	S20	W42	9209	10	31.7	23	SF		3		E		99		F
0022	LEAR	03	2258	2259	2311	N10	W07	9212	11	3.4	13	SF		3		E		26		
0023	URUM	04	0149E	0149	0200	S23	W40	9209	11	1.0	11D	SF				P		32	0.5	D
0024	URUM	04	0240	0248	0304	N04	W03	9213A	11	3.9	24	SN				C		161	1.7	E
0025	URUM	04	0339E	0339	0351	S20	W47	9209	10	31.5	12D	SF				P		16	0.3	D
0026	URUM	04	0427E	0427	0427D	S22	W46	9209	10	31.6	12D	SF				P		32	0.5	D

NOVEMBER 2000

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
0027	LEAR	04	0440	0441	0445	S23	W75	9217	10	29.5	5	SF		3	E		25		
0028		04	0738	07374	0742	N10	W14	9212	11	3.3	4	SN					21	0.2	D
	URUM	04	0737E	0737	0741	N10	W15	9212	11	3.2	4D	SB			P		16	0.2	D
	LEAR	04	0738	0741	0744	N10	W14	9212	11	3.3	6	SF		3	E		26		
		04	1011		1534	No Flare Patrol													
		04	1714		1722	No Flare Patrol													
		04	1755		1835	No Flare Patrol													
		04	1909		2021	No Flare Patrol													
		04	2058		2122	No Flare Patrol													
		04	2202		2212	No Flare Patrol													
0029	LEAR	05	0115	0148	0232	N14	W06	9218	11	4.6	77	1F		3	E		104		F
		05	1015		1110	No Flare Patrol													
0030	RAMY	05	1549	1549	1556	N03	W26	9213	11	3.7	7	SF		3	E		17		F
0031	RAMY	05	1559	1602	1612	S18	W63	9209	10	31.9	13	SF		3	E		71		
		05	2111		2215	No Flare Patrol													
0032		06	09304	09341	0944	S29	W60	9210	11	1.7	14	SF					61		EF
	URUM	06	0930	0934	0942	S30	W60	9210	11	1.7	12	SF			C		48		E
	LEAR	06	0934	0935	0946	S28	W59	9210	11	1.8	12	SF		3	E		74		F
		06	1010		1018	No Flare Patrol													
		06	1235		1239	No Flare Patrol													
		06	1305		1306	No Flare Patrol													
		06	1421		1439	No Flare Patrol													
		06	1451		1515	No Flare Patrol													
0033	RAMY	06	1629	1629	1643	S27	W61	9210	11	1.9	14	SF		3	E		27		
		06	1837		2309	No Flare Patrol													
0034	LEAR	07	0009	0010	0016	S28	W67	9210	11	1.8	7	SF		3	E		30		
0035	LEAR	07	0341	0342	0347	N01	W40	9213	11	4.2	6	SF		3	E		15		F
0036		07	11591	1203	1236	N04	W52	9213	11	3.6	37	1F					110		FH
	RAMY	07	1159	1203	1249	N06	W54	9213	11	3.4	50	1F		3	E		181		FH
	SVTO	07	1200	1203	1222	N02	W50	9213	11	3.8	22	SF		3	E		40		F
		07	1532		1622	No Flare Patrol													
0037	RAMY	07	1626	1629	1636	N14	W78	9226	11	1.8	10	SF		3	E		26		
		07	1712		1908	No Flare Patrol													
		07	1957		2012	No Flare Patrol													
0038	RAMY	07	2034	2034	2048	S18	W15	9225	11	6.7	14	SF		3	E		14		
		07	2037		2045	No Flare Patrol													
		07	2105		2215	No Flare Patrol													
0039	LEAR	07	2235	2256	2348	N12	W80	9226	11	1.9	73	SF		3	E		63		F
0040	LEAR	08	0025	0030	0036	N13	W81	9226	11	1.9	11	SF		3	E		32		F
		08	1001		1049	No Flare Patrol													
0041	RAMY	08	1136	1142	1150D	N13	W89	9226	11	1.8	14D	SF		3	E		55		
0042	RAMY	08	1243	1243	1247	N13	W91	9226	11	1.7	4	SF		3	E		36		
0043	RAMY	08	1635	1639	1651	N11	W79	9226	11	2.7	16	SF		3	E		13		

Hα SOLAR FLARES

NOVEMBER 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp	Opt Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0044	HOLL	08	1653	1653	1656	S13	E55	9227	11	12.8	3	SF		3	E		28		H
		08	1824		1829	No Flare Patrol													
0045	HOLL	08	2146	2148	2158	N05	W75	9213	11	3.3	12	SF		3	E		49		F
0046		08	22404	23234	2430	N20	W66	9218	11	3.9	110	1F					172		F
	LEAR	08	2240	2323	2430	N20	W66	9218	11	3.9	110	1F		3	E		161		F
	HOLL	08	2244	2327	2334D	N19	W65	9218	11	4.0	50D	1F		3	E		182		F
0047	LEAR	08	2259	2310	2431	N10	W75	9212	11	3.3	92	1N		3	E		157		FU
0048	HOLL	08	2300	2329	2334D	N10	W77	9213	11	3.2	34D	3F		3	E		601		F
0049	KANZ	09	1006	1012	1026	S12	E14	9221	11	10.5	20	SF		2	E				
		09	1054		1106	No Flare Patrol													
		09	1213		1345	No Flare Patrol													
0050		09	1535*	15505	1710	S12	E10	9221	11	10.4	95	1F					104		FSZ
	RAMY	09	1535	1550	1639D	S14	E11	9221	11	10.5	64D	1F		3	E		131		FS
	HOLL	09	1547	1555	1710	S11	E10	9221	11	10.4	83	SF		3	E		78		ZF
0051	RAMY	09	1922	1923	1930	N21	W67	9218	11	4.7	8	SF		3	E		41		
0052		09	19561	19571	2002	N20	W69	9218	11	4.5	6	SF					22		
	HOLL	09	1956	1958	1959	N18	W70	9218	11	4.5	3	SF		3	E		11		
	RAMY	09	1957	1957	2005	N21	W68	9218	11	4.6	8	SF		3	E		32		
0053		09	2116	2122	2150	S18	W43	9225	11	6.6	34	1N					126		FU
	HOLL	09	2116	2122	2150	S19	W43	9225	11	6.6	34	1F		3	E		114		UF
	RAMY	09	2122E	2122U	2136D	S18	W43	9225	11	6.6	14D	1N		3	E		137		
		10	1003		1027	No Flare Patrol													
		10	2144		2151	No Flare Patrol													
0054	LEAR	11	0003	0005	0014	N19	W84	9218	11	4.6	11	SF		2	E		71		F
0055	KANZ	12	0926	0928	0938	S13	W23	9221	11	10.6	12	SF		2	E				
0056		12	14043	1413	1504	S15	E05	9227	11	13.0	60	1F					64		F
	KANZ	12	1404	1413	1436D	S16	E07	9227	11	13.1	32D	1F		2	E				
	RAMY	12	1407	1413	1513	S14	E04	9227	11	12.9	66	1F		3	E		109		F
	SVTO	12	1407	1420U	1454	S14	E04	9227	11	12.9	47	SF		3	E		19		
		12	1918		1949	No Flare Patrol													
		12	2057		2123	No Flare Patrol													
0057	URUM	13	0542E	0542	0542D	S07	W09	9227	11	12.6	47D	SF			P		16	0.2	D
0058		13	16252	16282	1646	S11	W14	9227	11	12.6	21	SF					24		F
	RAMY	13	1625	1630	1650	S11	W15	9227	11	12.5	25	SF		3	E		34		F
	HOLL	13	1627	1628	1642	S11	W13	9227	11	12.7	15	SF		3	E		15		F
0059	LEAR	14	0025	0025	0031	S23	E68	9231	11	19.2	6	SF		3	E		32		
0060	LEAR	14	0224	0224	0227	S23	E67	9231	11	19.3	3	SF		4	E		33		
0061	LEAR	14	0600	0600	0607	S23	E65	9231	11	19.2	7	SF		3	E		32		
0062	LEAR	14	0728	0729	0732	S12	W50	9221	11	10.5	4	SF		3	E		12		
0063	LEAR	14	0746	0803	0901	S26	E65	9231	11	19.4	75	2N		3	E		323		EF
		14	0944		1055	No Flare Patrol													
0064	RAMY	14	1126	1142	1149	S26	E62	9231	11	19.3	23	SF		3	E		78		
0065	RAMY	14	1318	1321	1326	S25	E60	9231	11	19.2	8	SF		3	E		56		

NOVEMBER 2000

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0066	SVTO	14	1320	1321	1325	S18	E53	9231	11	18.6	5	SF		3	E		15		
0067	RAMY	14	1450	1452	1459	S25	E60	9231	11	19.3	9	SF		3	E		44		
0068	RAMY	14	1508	1509	1521	S26	E60	9231	11	19.3	13	SF		3	E		18		F
0069	HOLL	14	1523	1537	1539	S23	E62	9231	11	19.4	16	SF		3	E		63		
0070		14	18271	1829	1846	S24	E58	9231	11	19.2	19	SF					60		F
	HOLL	14	1827	1829	1836	S23	E59	9231	11	19.3	9	SF		3	E		60		F
	RAMY	14	1828	1829	1856	S25	E57	9231	11	19.2	28	SF		3	E		61		
0071	RAMY	14	1915	1915	1929	S13	W45	9223	11	11.4	14	SF		3	E		25		
0072	HOLL	14	2018	2033	2039	S25	E62	9231	11	19.6	21	SF		3	E		24		F
		14	2121		2230	No Flare Patrol													
0073		15	0243	02441	0302	S16	W48	9223	11	11.5	19	1B					110	1.6	EF
	LEAR	15	0243	0244	0308	S15	W48	9223	11	11.5	25	1B		3	E		123		F
	URUM	15	0245E	0245	0256	S16	W49	9223	11	11.4	11D	SB			P		96	1.6	E
0074		15	1819*	1821*	1835	S26	E42	9231	11	19.0	16	SF					38		F
	RAMY	15	1819	1821	1829	S26	E42	9231	11	19.0	10	SF		4	E		57		F
	RAMY	15	1832	1834	1841	S26	E42	9231	11	19.0	9	SF		4	E		18		
		15	2029		2338	No Flare Patrol													
		15	2353		2400	No Flare Patrol													
		16	0000		0303	No Flare Patrol													
0075	LEAR	16	0654	0655	0657	S25	E39	9231	11	19.3	3	SF		3	E		20		
		16	1004		1005	No Flare Patrol													
0076		16	18381	18391	1843	N12	E62	9235	11	21.4	5	SF					21		
	HOLL	16	1838	1839	1843	N13	E62	9235	11	21.4	5	SF		3	E		27		
	RAMY	16	1839	1840	1843	N10	E62	9235	11	21.4	4	SF		3	E		15		
0077	HOLL	16	1935	1935	1938	N12	E62	9235	11	21.5	3	SF		3	E		15		
0078	HOLL	16	2133	2142	2204	N12	E59	9235	11	21.3	31	SF		3	E		52		F
0079	LEAR	17	0204	0209	0211	N14	W33		11	14.6	7	SF		3	E		24		
0080	LEAR	17	0720	0720	0733	S24	E24	9231	11	19.1	13	SF		3	E		12		
		17	1035		1046	No Flare Patrol													
0081	SVTO	17	1112E	1113U	1131D	S25	E14	9231	11	18.5	19D	SF		3	E		17		FS
0082		17	1846	1847	1914	N11	E52	9235	11	21.7	28	SF					30		F
	HOLL	17	1846	1847	1858	N13	E52	9235	11	21.7	12	SF		3	E		31		F
	RAMY	17	1846	1847	1931	N09	E52	9235	11	21.7	45	SF		3	E		28		F
0083	HOLL	17	1913	1918	1927	N13	E48	9235	11	21.4	14	SF		3	E		22		F
0084	RAMY	17	2007	2009	2011	S09	W72	9227	11	12.4	4	SF		3	E		32		
0085		17	20244	20281	2040	S12	W64	9227	11	13.0	16	SF					18		
	RAMY	17	2024	2028	2042	S11	W64	9227	11	13.0	18	SF		3	E		23		
	RAMY	17	2028	2029	2039	S12	W63	9227	11	13.1	11	SF		3	E		14		
0086	RAMY	17	2036	2046	2110	S24	E06	9231	11	18.3	34	1F		3	E		110		FH
0087	HOLL	17	2218	2224	2242	N12	E49	9235	11	21.6	24	SF		3	E		49		
0088	LEAR	17	2350	2420	2437	S12	W73	9227	11	12.5	47	1F		3	E		105		
		18	0111		0823	No Flare Patrol													

Hα SOLAR FLARES

NOVEMBER 2000

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0089	LEAR	18	0146	0147	0155	N13	E41	9235	11	21.2	9	SF		3	E		35		F
0090	LEAR	18	0228	0233	0246	S14	W76	9227	11	12.3	18	1F		3	E		124		
0091	LEAR	18	0258	0307	0317	N13	E41	9235	11	21.2	19	SF		3	E		45		F
0092	LEAR	18	0556	0558	0603	S24	E10	9231	11	19.0	7	SF		3	E		19		F
0093	LEAR	18	0610	0612	0616	S23	E03	9231	11	18.5	6	SF		3	E		17		
0094	LEAR	18	0706	0708	0716	N13	E39	9235	11	21.2	10	SF		3	E		31		
0095	LEAR	18	0818	0822	0826	S21	E06	9231	11	18.8	8	SF		3	E		26		
0096	LEAR	18	0913	0915	0917	S22	E00	9231	11	18.4	4	SF		3	E		10		
		18	1052		1057	No Flare Patrol													
0097		18	1058E	1100U	1125	S24	E06	9231	11	18.9	27D	SF					40		F
	SVTO	18	1058E	1100U	1119D	S23	E04	9231	11	18.8	21D	SF		3	E		40		F
	RAMY	18	1100E	1101U	1125	S25	E08	9231	11	19.1	25D	SF		3	E		41		F
0098	RAMY	18	1130	1132	1152	N12	E38	9235	11	21.3	22	SF		3	E		75		
0099		18	13063	1315	1412	N12	E36	9235	11	21.2	66	1F					129		FH
	RAMY	18	1306	1315	1419	N11	E37	9235	11	21.3	73	1F		3	E		188		FH
	SVTO	18	1309	1320U	1404	N14	E36	9235	11	21.3	55	SF		3	E		70		FH
0100	RAMY	18	1416	1419	1423	S11	W85	9227	11	12.2	7	SF		3	E		27		
		18	1511		1520	No Flare Patrol													
		18	1528		1530	No Flare Patrol													
0101		18	18511	1852	1857	S22	W05	9231	11	18.4	6	SF					42		F
	RAMY	18	1851	1852	1856	S22	W06	9231	11	18.3	5	SF		3	E		55		
	HOLL	18	1852	1852	1858	S22	W04	9231	11	18.5	6	SF		3	E		28		F
		18	2121		2124	No Flare Patrol													
0102	LEAR	19	0122	0123	0128	S21	W09	9231	11	18.4	6	SF		3	E		41		F
0103	URUM	19	0230	0234	0245	S24	W03	9231	11	18.9	15	SN			C		32	0.4	D
0104	URUM	19	0538E	0538	0538D	S37	W67		11	13.8	15D	SB			P		32		D
0105	LEAR	19	0724	0725	0733	S24	W06	9231	11	18.8	9	SF		3	E		18		F
		19	1025		1101	No Flare Patrol													
0106	RAMY	19	1140	1141	1155	N20	W25	9234	11	17.6	15	1N		3	E		125		F
0107	RAMY	19	1831	1833	1838	N11	W29	9237	11	17.6	7	SF		3	E		10		F
0108	LEAR	20	0006	0007	0012	S23	W24	9231	11	18.1	6	SF		3	E		12		
0109	LEAR	20	0016	0022	0115	S20	W24	9231	11	18.2	59	SF		3	E		70		
0110	LEAR	20	0116	0116	0122	N14	E22	9235	11	21.7	6	SF		3	E		11		
0111	KANZ	20	0835	0840	0853	S23	W16	9231	11	19.1	18	SF		2	E				
0112		20	09023	09061	0920	S24	W16	9231	11	19.1	18	SF					14		
	KANZ	20	0902	0906	0920	S24	W16	9231	11	19.1	18	SF		2	E				
	LEAR	20	0905	0907	0920	S24	W16	9231	11	19.1	15	SF		3	E		14		
0113		20	0934	09352	0944	S26	W14	9231	11	19.3	10	SN					44		F
	SVTO	20	0934	0935	0946	S26	W13	9231	11	19.4	12	SN		3	E		44		F
	KANZ	20	0934	0937	0942	S27	W14	9231	11	19.3	8	SF		2	E				

NOVEMBER 2000

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0114	RAMY	20	1306	1317	1353D	S24	W18	9231	11	19.1	47D	SF		4	E		52		FH
0115	RAMY	20	1602	1603	1609	N10	W42	9237	11	17.5	7	SF		3	E		15		
		20	2214		2239	No Flare Patrol													
0116	LEAR	20	2332	2333	2339	S25	W21	9231	11	19.3	7	SF		4	E		20		
0117	URUM	21	0246E	0246	0246D	N19	E25	9241	11	23.0	7D	SN			P		32	0.4	D
0118	LEAR	21	0519	0519	0526	S24	W28	9231	11	19.0	7	SF		4	E		12		
		21	1007		1014	No Flare Patrol													
0119	RAMY	21	1258	1300	1310	N15	W67	9237	11	16.5	12	SF		3	E		28		
0120	RAMY	21	1424	1426	1449	N13	W69	9237	11	16.4	25	SF		3	E		52		F
0121	SVTO	21	1426E	1426U	1433	N10	W56	9237	11	17.4	7D	SF		3	E		23		
0122	RAMY	21	1536	1537	1545	N13	W70	9237	11	16.4	9	SF		3	E		48		F
0123	RAMY	21	1917	1917U	1949	N15	W71	9237	11	16.4	32	SN		3	E		51		F
		21	2018		2033	No Flare Patrol													
		21	2041		2231	No Flare Patrol													
0124	LEAR	22	0151	0151	0201	S19	E49		11	25.8	10	SF		3	E		50		
0125	LEAR	22	0335	0341	0416	N09	W63	9237	11	17.4	41	SF		3	E		45		
0126	LEAR	22	0446	0453	0457	N18	E25	9236	11	24.1	11	SF		3	E		40		H
0127		22	0627	06282	0633	N18	E24	9236	11	24.1	6	SN					41	0.8	D
	LEAR	22	0627	0630	0634	N17	E23	9236	11	24.0	7	SF		3	E		18		
	URUM	22	0628E	0628	0632	N19	E24	9236	11	24.1	4D	SN			P		64	0.8	D
0128	LEAR	22	0702	0704	0709	N18	E21	9236	11	23.9	7	SF		3	E		39		
0129		22	08041	08074	0817	N19	E25	9236	11	24.2	13	1N					76	0.6	E
	KANZ	22	0804	0807	0818	N18	E23	9236	11	24.1	14	1F		2	E				
	LEAR	22	0805	0811	0818	N20	E27	9236	11	24.4	13	1F		3	E		105		
	URUM	22	0807E	0807	0815	N18	E25	9236	11	24.2	8D	SB			P		48	0.6	E
0130	KANZ	22	0807	0808	0816	N19	E32	9236	11	24.8	9	SF		2	E				
0131		22	0827	08283	0834	N11	E79	9240	11	28.3	7	SF					33		
	KANZ	22	0827	0828	0832	N11	E78	9240	11	28.2	5	SF		2	E				
	LEAR	22	0827	0831	0836	N11	E80	9240	11	28.4	9	SF		3	E		33		
0132	LEAR	22	0845	0847	0850	N18	E19	9236	11	23.8	5	SF		3	E		19		
		22	1022		1148	No Flare Patrol													
0133	RAMY	22	1238	1241	1244	N17	E18	9236	11	23.9	6	SF		3	E		18		
		22	1302		1429	No Flare Patrol													
0134	RAMY	22	1619	1620	1627	N16	E17	9236	11	24.0	8	1N		3	E		162		FH
0135	RAMY	22	1632	1635	1643	N17	E16	9236	11	23.9	11	SF		3	E		38		FH
0136	RAMY	22	1906	1908	1917	S24	W44	9231	11	19.4	11	SF		3	E		22		FH
0137	RAMY	22	1917	1918	1921	N08	E77	9240	11	28.6	4	SF		3	E		14		
0138	HOLL	22	2253	2254	2257	S24	W46	9231	11	19.4	4	SF		3	E		11		F
0139	LEAR	23	0234	0238	0252	S25	W47	9231	11	19.5	18	SF		4	E		78		F

Hα SOLAR FLARES

NOVEMBER 2000

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0140	LEAR	23	0409	0409	0416	S25	W49	9231	11	19.4	7	SF		3	E		25		F
0141		23	05361	05453	0620	S26	W40	9238	11	20.1	44	2N					354	8.5	EF
	LEAR	23	0536	0548	0615	S26	W40	9238	11	20.1	39	1F		3	E		146		F
	URUM	23	0537	0545	0624	S25	W40	9238	11	20.1	47	2B			C		563	8.5	E
0142	LEAR	23	0611	0611	0619	S26	W49	9231	11	19.4	8	SF		3	E		10		
0143	LEAR	23	0826	0831	0842	S25	W51	9231	11	19.4	16	SF		3	E		70		
0144	LEAR	23	0923	0924	0929	S25	W50	9231	11	19.5	6	SF		3	E		12		F
0145	LEAR	23	0938	0939	0944	S24	W56	9231	11	19.1	6	SF		3	E		14		
0146	LEAR	23	1006	1007	1013	S23	W55	9231	11	19.2	7	SF		3	E		34		
		23	1044		1111	No Flare Patrol													
0147	RAMY	23	1303	1303	1308	S22	W59	9231	11	19.0	5	SF		3	E		13		
0148	RAMY	23	1421	1423	1432	S24	W55	9231	11	19.3	11	1N		3	E		103		H
0149	RAMY	23	1430	1435	1447	N22	E05	9236	11	24.0	17	SF		3	E		21		F
0150	RAMY	23	1652	1657	1706	N22	E04	9236	11	24.0	14	SF		3	E		12		F
		23	1758		1813	No Flare Patrol													
0151	HOLL	23	1811	1811	1815	N19	E07	9236	11	24.3	4	SF		3	E		52		F
0152	HOLL	23	1821	1822	1830	N22	E00	9236	11	23.8	9	SF		3	E		35		F
		23	1836		1856	No Flare Patrol													
0153	HOLL	23	1938	1943	1950	N08	E64	9240	11	28.6	12	SF		3	E		58		
0154	HOLL	23	2004	2006	2015	S21	W60	9231	11	19.2	11	SF		3	E		54		F
		23	2052		2211	No Flare Patrol													
0155	HOLL	23	2320E	2330U	2340D	N22	E09	9236	11	24.7	20D	SF		1	E		30		
0156	LEAR	23	2320	2328	2357	N22	W03	9236	11	23.7	37	1N		3	E		198		F
0157	LEAR	23	2359	2402U	2404	N22	W03	9236	11	23.8	5	SF		3	E		32		
0158	LEAR	24	0016	0017	0020	S21	E48	9239	11	27.7	4	SF		3	E		42		
0159	LEAR	24	0217	0220	0228	N23	W04	9236	11	23.8	11	SF		3	E		16		
0160	LEAR	24	0351E	0352	0402	N24	W07	9236	11	23.6	11D	SF		3	E		56		
0161	LEAR	24	0407	0407	0422	N23	W05	9236	11	23.8	15	SF		3	E		11		F
0162	LEAR	24	0456	0456	0500	N10	E60	9240	11	28.7	4	SF		3	E		19		
0163	LEAR	24	0457	0501	0535	N20	W05	9236	11	23.8	38	3B		3	E		683		EF
0164	LEAR	24	0728	0738	0805	N21	W08	9236	11	23.7	37	SF		3	E		45		F
0165	LEAR	24	0759	0759	0804	S26	W64	9231	11	19.4	5	SF		3	E		16		
		24	1021		1108	No Flare Patrol													
0166	RAMY	24	1136	1140	1149	N22	W04	9236	11	24.2	13	SF		3	E		17		F
0167	RAMY	24	1316	1318	1325	S24	W69	9231	11	19.2	9	SF		3	E		42		

NOVEMBER 2000

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0168		24	14547	15106	1601	N20	W08	9236	11	24.0	67	2B					404		FH
	RAMY	24	1454	1510	1605	N19	W09	9236	11	23.9	71	2B		3	E		505		FH
	HOLL	24	1501	1516	1557	N22	W07	9236	11	24.1	56	2B		3	E		303		
0169	HOLL	24	1544	1551	1558	S22	W71	9231	11	19.2	14	SF		3	E		12		
0170	HOLL	24	1559	1600	1606	S22	W73	9231	11	19.0	7	SF		3	E		16		
0171	RAMY	24	1639	1639	1650	S22	W74	9231	11	19.0	11	SF		3	E		14		F
0172	HOLL	24	1928	1939	2003	S23	W74	9231	11	19.1	35	SF		3	E		13		
		24	2122		2137	No Flare Patrol													
		24	2141		2151	No Flare Patrol													
0173	HOLL	24	2146	2154	2249	N21	W14	9236	11	23.8	63	2N		3	E		309		FH
		24	2200		2212	No Flare Patrol													
0174		24	2254	2237*	2304	N20	W16	9236	11	23.7	10	1F					62		F
	LEAR	24	2237E	2237	2307	N20	W15	9236	11	23.8	30D	1F		3	E		106		
	HOLL	24	2254	2255	2301	N19	W16	9236	11	23.7	7	SF		3	E		18		F
0175	LEAR	25	0100	0106	0324	N07	E50	9240	11	28.8	144	2N		3	E		417		FU
0176	URUM	25	0231E	0241	0255	N09	E53	9240	11	29.1	24D	SN			P		113	2.0	E
0177	URUM	25	0241E	0241	0241D	N20	W18	9236	11	23.7	24D	SF			P		16	0.2	D
0178	URUM	25	0247	0251	0255	N25	W13	9236	11	24.1	8	SN			C		32	0.4	E
0179	URUM	25	0641	0644	0652	N22	W20	9236	11	23.7	11	SF			C		32	0.4	E
0180	URUM	25	0727	0731	0740	N20	W22	9236	11	23.6	13	SF			C		32	0.4	E
0181	LEAR	25	0909	0918	1015D	N18	W24	9236	11	23.5	66D	2N		3	E		265		EF
		25	1040		1105	No Flare Patrol													
0182		25	1532	1535	1543	N24	W22	9236	11	23.9	11	SF					82		FH
	HOLL	25	1532	1535	1542	N24	W21	9236	11	24.0	10	SF		3	E		80		F
	RAMY	25	1532	1535	1544	N23	W23	9236	11	23.9	12	SF		3	E		83		FH
0183		25	15505	1556	1600	N22	W22	9236	11	24.0	10	SF					24		F
	RAMY	25	1550	1556	1600	N20	W23	9236	11	23.9	10	SF		3	E		30		F
	HOLL	25	1555	1556	1559	N23	W21	9236	11	24.0	4	SF		3	E		17		F
0184	HOLL	25	1714	1717	1721	N22	W25	9236	11	23.8	7	SF		3	E		29		F
0185	HOLL	25	1728	1729	1734	N21	W26	9236	11	23.7	6	SF		3	E		19		F
0186		25	1836	18415	2016	N19	W24	9236	11	23.9	100	2B					470		EFU
	RAMY	25	1836	1841	2018	N20	W23	9236	11	24.0	102	2B		3	E		414		UF
	HOLL	25	1836	1846	2013	N18	W24	9236	11	23.9	97	2B		3	E		527		FE
0187	HOLL	25	2107	2107	2112	N20	W27	9236	11	23.8	5	SF		3	E		29		
		25	2333		2400	No Flare Patrol													
		26	0000		0142	No Flare Patrol													
		26	0205		0224	No Flare Patrol													
0188	LEAR	26	0951	0953	1001	N19	W34	9236	11	23.8	10	SF		3	E		34		
		26	1030		1036	No Flare Patrol													
0189		26	11342	11371	1149	N20	W34	9236	11	23.9	15	1F					66		F
	KANZ	26	1134	1137	1150	N18	W34	9236	11	23.9	16	1F		2	E				
	RAMY	26	1136	1138	1148	N21	W33	9236	11	23.9	12	SF		3	E		66		F

Hα SOLAR FLARES

NOVEMBER 2000

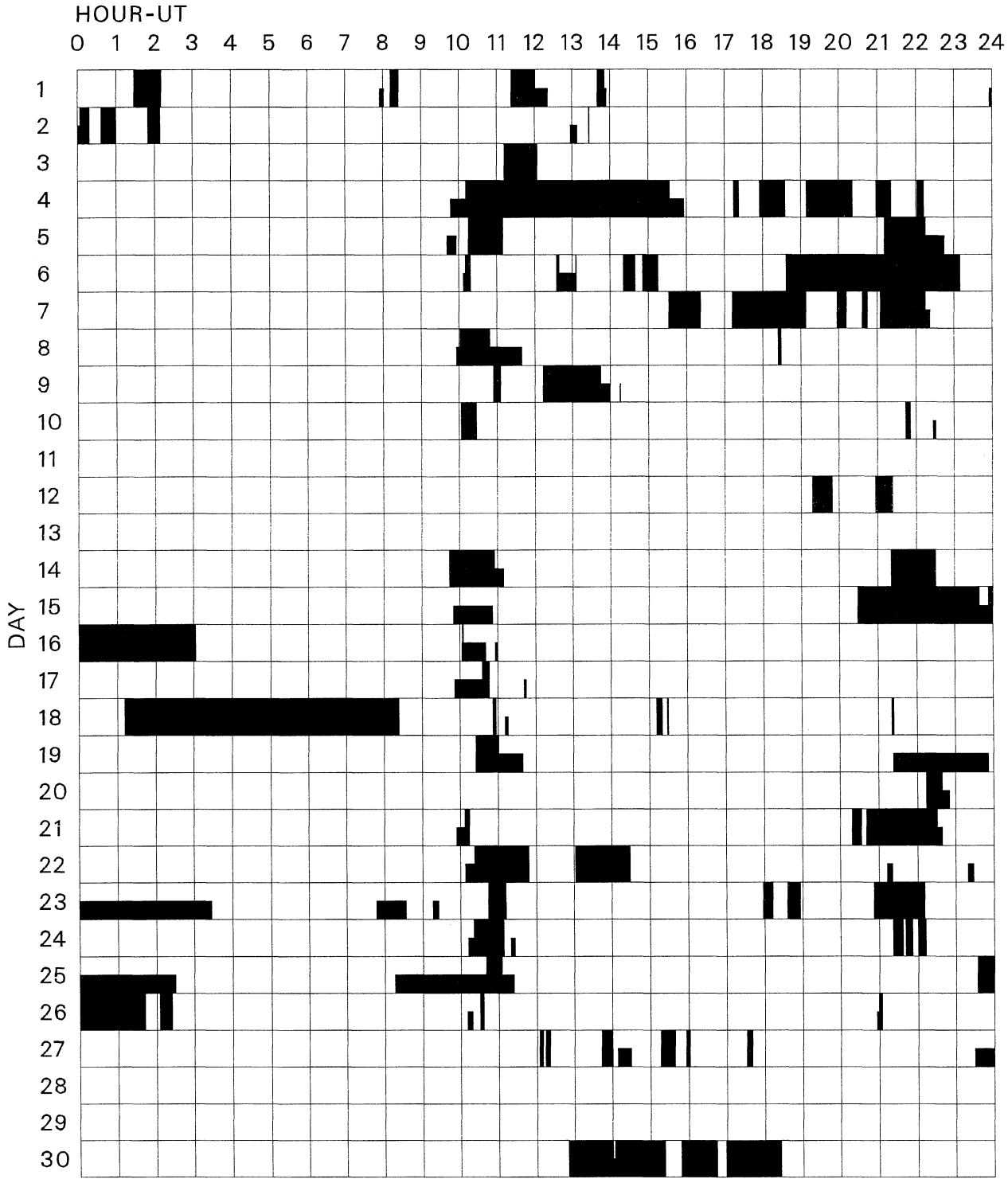
Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0190	RAMY	26	1233	1239	1317	N20	W33	9236	11	24.0	44	SF		3	E		67		FH
0191		26	15101	1511	1517	N22	W34	9236	11	24.0	7	SF					16		FH
	RAMY	26	1510	1511	1517	N23	W33	9236	11	24.1	7	SF		3	E		16		FH
	HOLL	26	1511	1511	1517	N22	W34	9236	11	24.0	6	SF		3	E		16		
0192		26	15352	15371	1546	N20	W34	9236	11	24.0	11	SF					16		F
	RAMY	26	1535	1537	1548	N20	W34	9236	11	24.0	13	SF		3	E		18		F
	HOLL	26	1537	1538	1545	N19	W35	9236	11	24.0	8	SF		3	E		14		
0193		26	16371	1645*	1732	N20	W36	9236	11	23.9	55	2B					348		FHU
	RAMY	26	1637	1645	1818D	N21	W33	9236	11	24.2	101D	2B		3	E		326		UU
	HOLL	26	1638	1657	1732	N18	W38	9236	11	23.8	54	2B		3	E		370		FH
0194	HOLL	26	1745	1755	1817	N18	W36	9236	11	24.0	32	SF		3	E		11		F
0195		26	18291	18295	1838	N22	W40	9236	11	23.7	9	SF					14		FS
	RAMY	26	1829	1829	1840	N23	W40	9236	11	23.7	11	SF		3	E		15		F
	HOLL	26	1830	1834	1836	N21	W39	9236	11	23.8	6	SF		3	E		13		S
		26	2059		2104	No Flare Patrol													
0196	LEAR	27	0017	0020	0026	N20	W43	9236	11	23.7	9	1F		3	E		108		F
0197	URUM	27	0318E	0318	0322	N23	W43	9236	11	23.8	4D	SF			P		16	0.2	E
0198	LEAR	27	0334	0337	0346	N20	E39	9242	11	30.1	12	SF		3	E		27		
0199	URUM	27	0448	0452	0515	N23	E41	9242	11	30.3	27	SN			C		80	1.2	E
		27	1204		1210	No Flare Patrol													
		27	1214		1221	No Flare Patrol													
		27	1343		1359	No Flare Patrol													
		27	1516		1539	No Flare Patrol													
		27	1556		1602	No Flare Patrol													
0200	HOLL	27	1717	1720	1727	N15	W29	9244	11	25.5	10	SF		3	E		17		F
		27	1731		1740	No Flare Patrol													
0201	HOLL	27	2046	2051	2104	N20	E27	9240	11	29.9	18	SF		3	E		31		F
0202	HOLL	27	2108	2110	2119	N20	E27	9242	11	29.9	11	SF		3	E		46		
0203	LEAR	27	2303	2305	2310	N20	W55	9236	11	23.7	7	SF		3	E		31		
0204		27	23201	23212	2331	N18	E25	9242	11	29.9	11	SF					26		F
	LEAR	27	2320	2323	2331	N18	E26	9242	11	29.9	11	SF		4	E		34		F
	HOLL	27	2321	2321	2326D	N18	E24	9242	11	29.8	5D	SF		3	E		18		
0205	LEAR	27	2352	2352	2359	N19	E27	9242	11	30.0	7	SN		4	E		71		F
0206		28	0316	03171	0321	N20	W56	9236	11	23.8	5	SN					32	0.7	D
	LEAR	28	0316	0317	0320	N20	W53	9236	11	24.1	4	SF		3	E		33		
	URUM	28	0318E	0318	0322	N20	W59	9236	11	23.6	4D	SN			P		32	0.7	D
0207		28	0526	05264	0528	N18	W58	9236	11	23.8	2	SF					64	1.9	E
	LEAR	28	0526	0526	0528	N18	W58	9236	11	23.8	2	SF		3	E		31		
	URUM	28	0530E	0530	0530D	N18	W57	9236	11	23.9	2D	SF			P		96	1.9	E
0208	RAMY	28	1427	1428	1433	N20	E17	9242	11	29.9	6	SF		3	E		16		
0209	HOLL	28	1633	1637	1643	S12	E51	9246	12	2.5	10	SF		3	E		17		F
0210	HOLL	28	1646	1647	1657	S12	E51	9246	12	2.5	11	SF		3	E		12		S
0211	HOLL	28	1750	1756	1803	N21	E14	9242	11	29.8	13	SF		3	E		17		F
0212	HOLL	28	1804	1811	1818	N21	E15	9242	11	29.9	14	SF		3	E		15		F

NOVEMBER 2000

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
0213	HOLL	28	1910E	1910U	1925	N19	E21	9242	11	30.4	15D	SF		2	E		20		
0214	HOLL	28	1959	2001	2005	S12	E48	9246	12	2.4	6	SF		3	E		11		
0215	HOLL	28	2151	2151	2200	N19	E14	9242	11	30.0	9	SF		3	E		34		
0216		28	2215	22151	2220	N20	E14	9242	11	30.0	5	SF					14		
	HOLL	28	2215	2215	2219	N20	E14	9242	11	30.0	4	SF		3	E		16		
	LEAR	28	2215	2216	2221	N20	E13	9242	11	29.9	6	SF		3	E		13		
0217	LEAR	29	0057	0058	0112	N20	E11	9242	11	29.9	15	SF		3	E		75		
0218	LEAR	29	0315	0326	0343	S13	E44	9246	12	2.4	28	SF		3	E		17		
0219	LEAR	29	0542	0543	0552	S13	E42	9246	12	2.4	10	SF		3	E		20		
0220	LEAR	29	0619	0624	0646	S13	E43	9246	12	2.5	27	SF		3	E		66		F
0221		29	0808*	08181	0828	N22	E09	9242	11	30.0	20	1F					11		
	KANZ	29	0808	0819	0833	N23	E09	9242	11	30.0	25	1F		2	E				
	LEAR	29	0818	0818	0822	N22	E09	9242	11	30.0	4	SF		3	E		11		
0222		29	08409	08522	0908	S13	E41	9246	12	2.4	28	SF					25		
	KANZ	29	0840	0852	0909	S13	E41	9246	12	2.4	29	SF		2	E				
	LEAR	29	0849	0854	0908	S13	E41	9246	12	2.5	19	SF		3	E		25		
0223	RAMY	29	1136	1138	1145	S12	E40	9246	12	2.5	9	SF		3	E		10		
0224		29	12063	1210	1227	S12	E40	9246	12	2.5	21	SF					32		FH
	RAMY	29	1206	1210	1231	S12	E40	9246	12	2.5	25	SF		3	E		43		F
	SVTO	29	1209	1210	1223	S12	E39	9246	12	2.4	14	SF		3	E		20		H
0225		29	15032	15033	1518	S12	E38	9246	12	2.5	15	SF					16		F
	RAMY	29	1503	1503	1522	S12	E38	9246	12	2.5	19	SF		3	E		12		F
	HOLL	29	1505	1506	1513	S12	E37	9246	12	2.4	8	SF		3	E		20		F
0226	RAMY	29	1910	1911	1917	S13	E39	9246	12	2.7	7	SF		3	E		13		F
0227	HOLL	29	2201	2202	2206	S12	E34	9246	12	2.5	5	SF		3	E		18		F
0228	LEAR	30	0218	0221	0223	S13	E31	9246	12	2.4	5	SF		3	E		18		
0229	LEAR	30	0255	0256	0302	N20	W77	9236	11	24.2	7	SF		3	E		40		
0230	LEAR	30	0259	0300	0305	N13	E18	9247	12	1.5	6	SF		3	E		43		
0231	LEAR	30	0310	0310	0318	N13	E18	9247	12	1.5	8	SF		3	E		15		F
0232	LEAR	30	0645	0647	0650	S13	E29	9246	12	2.5	5	SF		3	E		20		
0233	LEAR	30	0710	0713	0718	S13	E29	9246	12	2.5	8	SF		3	E		33		
0234	LEAR	30	0721	0721	0726	S13	E29	9246	12	2.5	5	SF		3	E		13		
0235	LEAR	30	0845	0845	0854	S13	E27	9246	12	2.4	9	SF		3	E		17		
0236	LEAR	30	0948	0950	0956	S12	E29	9246	12	2.6	8	SF		3	E		13		F
		30	1250		1401	No Flare Patrol													
		30	1404		1523	No Flare Patrol													
		30	1548		1644	No Flare Patrol													
		30	1658		1825	No Flare Patrol													
0237	HOLL	30	2032	2038	2102	S14	E23	9246	12	2.6	30	SF		3	E		41		F
0238	HOLL	30	2150	2151	2153	N17	W68	9244	11	25.7	3	SF		3	E		12		

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

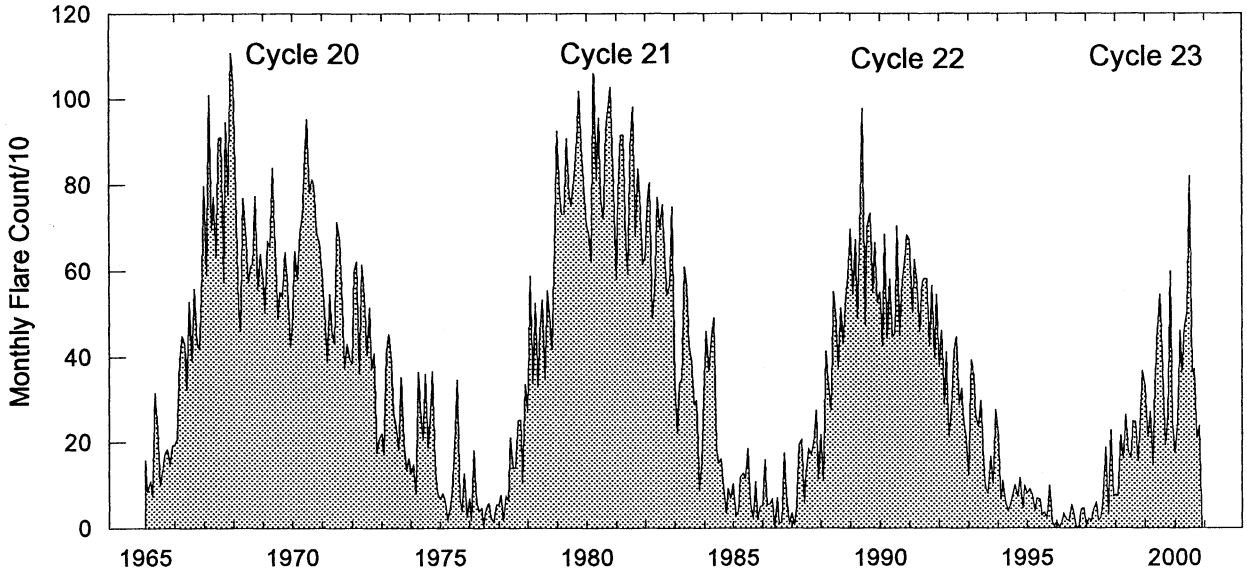
NOVEMBER 2000



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

Holloman Urumqi Learmonth Ramey San Vito
Kanzelhoehe

Monthly Counts of Grouped Solar Flares
Jan 1965 - Nov 2000



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	238		4225

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

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

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	245	SGMR	43	NS	1627.0	1652.0	81.0	110.0			QL=4 ST=2 TYP=1
	2840	PEKG	20	GRF	0504.0	0517.5	20.0	8.0			
	2840	PEKG	20	GRF	0634.0	0638.0	16.0	7.3			
	3000	IZMI	20	GRF	0927.7	0928.9	2.9	13.0	7.0		
	3000	IZMI	22	GRF	0957.4	1013.9	26.0	12.0	3.0		
	204	IZMI	42	SER	1107.7	1108.6	1.2	96.0			
	204	IZMI	7	C	1139.5	1139.5	0.2	58.0			
	610	SGMR	4	S/F	1735.0	1738.0	5.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1736.0	1738.0	4.0	42.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1832.0	1843.0	42.0	8.0	4.0		00L
	9500	CUBA	1	S	1833.0	1833.3	2.2	10.0	5.0		
	6700	CUBA	1	S	1833.9	1834.5	1.4	11.0	5.0		11L
	245	PALE	8	S	1948.0	1948.0	U	54.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1948.0	1948.0	U	59.0			QL=4 ST=2 TYP=3
02	410	SVTO	8	S	0859.0	0859.0	U	98.0			QL=4 ST=2 TYP=3
	2800	PENT	42	SER	1829.0	1900.0	61.0	16.0			
	200	HIRA	8	S	2242.0	2243.0	2.0	240.0			0
	245	LEAR	8	S	2243.0	2243.0	U	74.0			QL=4 ST=2 TYP=3
03	245	SGMR	43	NS	1900.0	1900.0	15.0	54.0			QL=4 ST=2 TYP=1
	200	HIRA	8	S	0031.0	0032.0	1.0	120.0			0
	2840	PEKG	1	S	0457.0	0459.0	6.0	8.3			
	245	SVTO	8	S	0914.0	0914.0	U	110.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0949.5	0952.8	15.7	10.0			
	245	SGMR	8	S	1824.0	1825.0	2.0	73.0			QL=4 ST=2 TYP=3
	2800	PENT	22	GRF	1830.0	1924.0	62.0U	12.0			
	2800	PENT	29	PBI	2058.0	2103.0	24.0	5.0			
	2800	PENT	1	S	2251.0	2258.0	77.0	27.0			
	2695	LEAR	8	S	2257.0	2258.0	2.0	46.0			QL=4 ST=2 TYP=3
04	127	TORN	44	NS	0620.0E		490.0D		3.0		V=1
	204	IZMI	43	NS	1025.5		39.0		10.0		
	2840	PEKG	5	S	0238.0	0241.0	7.0	13.2			
	2840	PEKG	1	S	0736.0	0738.5	6.0	5.2			
	2950	GORK	2	S/F	0737.8	0738.5	2.2	8.0			
	3000	IZMI	7	C	0737.8	0738.5	2.4	12.0	2.0		
	900	GORK	2	S/F	0738.0	0739.0	2.8	4.2			
	600	GORK	46	C	0738.0	0739.1		1.9			
	600	GORK	46	C	0738.0	0738.3	4.2	5.8			
	204	IZMI	42	SER	0803.5	0804.0	0.8	7.0			
	900	GORK	42	SER	0942.5	1021.4		12.0			
	900	GORK	42	SER	0942.5	0943.4	51.5	35.0			
	127	TORN	4	S/F	0954.8	0956.2	2.6	150.0	80.0		
	600	GORK	42	SER	0957.4	1040.0		6.5			
	600	GORK	42	SER	0957.4	1027.2	48.1	28.0U			
	204	IZMI	42	SER	1018.4	1018.5	2.4	22.0			
	2950	GORK	23	GRF	1020.0	1039.5		11.0			
	2950	GORK	23	GRF	1020.0	1026.7	21.2	10.0			
	3000	IZMI	42	SER	1020.2	1021.6	7.5	14.0	5.0		
	127	TORN	46	C	1025.2	1028.3	4.2	170.0	60.0		
	204	IZMI	7	C	1037.6	1037.9	0.6	76.0			
	3000	IZMI	20	GRF	1038.3	1039.5	3.7	18.0	8.0		
	127	TORN	42	SER	1204.7	1206.8	9.0	70.0			
	6700	CUBA	23	GRF	1352.0	1357.0	56.0	8.0	4.0		00L
	2695	SGMR	8	S	1421.0	1422.0	1.0	47.0			QL=4 ST=2 TYP=3
05	127	TORN	44	NS	0620.0E		410.0D		2.0		V=0
	204	IZMI	43	NS	0700.0		300.0D		15.0		
	500	HIRA	4	S/F	0043.0	0046.0	9.0	70.0			0
	610	LEAR	49	GB	0044.0	0045.0	3.0	560.0			QL=4 ST=2 TYP=6
	410	LEAR	4	S/F	0104.0	0104.0	3.0	79.0			QL=2 ST=2 TYP=3
	410	LEAR	8	S	0111.0	0112.0	2.0	80.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0128.0	0128.0	3.0	68.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0133.0	0133.0	U	66.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0138.0	0140.0	2.0	100.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0523.0	0525.9	8.0	24.3			
	204	IZMI	7	C	0709.3	0709.4	0.2	24.0			
	204	IZMI	42	SER	0811.5	0811.6	5.1	99.0			

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

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	2950	GORK	46	C	0934.0	0935.0		23.0			
	900	GORK	46	C	0934.0	0934.2	4.0	15.0			
	900	GORK	46	C	0934.0	0935.3		10.0			
	2950	GORK	46	C	0934.0	0934.3	3.6	25.0			
	9100	GORK	45	C	0934.0	0934.6	2.0	19.0			
	9100	GORK	45	C	0934.0	0934.9		24.0			
	600	GORK	4	S/F	0934.3	0934.9	3.0	15.0			
	204	IZMI	42	SER	1053.2	1053.4	2.1	119.0			
	2800	PENT	1	S	1557.0	1600.0	7.0	12.0			
	6700	CUBA	1	S	1600.5	1600.8	1.7	10.0	5.0		31L
	245	SGMR	8	S	1735.0	1735.0	U	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1902.0	1902.0	U	79.0			QL=4 ST=2 TYP=3
06	200	HIRA	8	S	0318.0	0319.0	1.0	50.0			WL
	245	LEAR	8	S	0732.0	0732.0	1.0	87.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0732.0	0732.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0732.0	0732.0	3.0	30.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0732.7	0732.9	0.5	280.0			
	3000	IZMI	22	GRF	0933.0	0935.0	3.3	26.0	7.0		
	204	IZMI	41	F	0933.9	0934.4	2.1	45.0			
	410	LEAR	8	S	0934.0	0934.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0934.0	0934.0	U	80.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0934.0	0935.0	1.0	42.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0934.0	0935.0	1.0	30.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0934.0	0934.0	U	77.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0934.0	0934.0	1.0	92.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0935.0	0935.0	U	32.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1234.0	1234.0	1.0	260.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1234.0	1234.0	1.0	180.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1656.0	1659.0	8.0	11.0			
	15400	LEAR	20	GRF	2214.0	2242.0	102.0	51.0			QL=4 ST=2 TYP=2
07	2840	PEKG	1	S	0007.0	0009.4	5.0	4.8			
	2840	PEKG	1	S	0151.0	0154.0	6.0	8.4			
	2840	PEKG	3	S	0335.0	0341.0	13.0	29.8			
	4995	LEAR	8	S	0340.0	0340.0	1.0	32.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0930.9	0932.4	2.7	15.0	8.0		
	3000	IZMI	46	C	1155.9	1201.8	20.2	125.0	27.0		
	2695	SGMR	4	S/F	1157.0	1200.0	7.0	89.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1158.0	1200.0	6.0	140.0			QL=4 ST=2 TYP=3
	127	TORN	4	S/F	1413.0	1414.6	5.0	30.0	10.0		
08	127	TORN	44	NS	0640.0E		500.0D		12.0		V=0
	9100	GORK	46	C	0949.5	0952.0	4.5	270.0			
	9100	GORK	46	C	0949.5	0952.4		250.0			
	600	GORK	40	F	0950.5	0951.5	1.8	48.0			
	204	IZMI	42	SER	0950.7	0951.1U	1.5	47.0U			
	3000	IZMI	22	GRF	0951.0	0952.0	3.1	27.0	14.0		
	15400	LEAR	8	S	0951.0	0952.0	2.0	350.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0951.0	0952.0	2.0	58.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0951.0	0952.0	2.0	220.0			QL=4 ST=2 TYP=3
	900	GORK	2	S/F	0951.0	0952.5	3.9	11.0			
	9100	GORK	29	PBI	0954.0	0954.0	12.8	22.0			
	204	IZMI	42	SER	1045.8	1045.9	0.6	84.0			
	204	IZMI	42	SER	1052.9	1053.2	0.6	199.0			
	2800	PENT	1	S	1623.0	1629.0	13.0	14.0			
	9500	CUBA	21	GRF	1624.0	1640.0	25.0	8.0	4.0		
	6700	CUBA	21	GRF	1624.0	1650.0	39.0	10.0	5.0		8L
	6700	CUBA	40	F	1624.5	1629.5	13.0	49.0	24.0		00L
	9500	CUBA	40	F	1625.2	1629.5	7.8	47.0	23.0		
	2800	PENT	40	F	2233.0	2318.0	45.0U	755.0			
	1415	LEAR	48	C	2258.0	2318.0	80.0	390.0			QL=4 ST=2 TYP=8
	1415	PALE	48	C	2258.0	2318.0	89.0	420.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	2258.0	2318.0	103.0	710.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	2258.0	2318.0	114.0	740.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	2300.0	2318.0	101.0	440.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	2301.0	2301.0	U	42.0			QL=4 ST=2 TYP=3
	2800	HIRA	47	GB	2301.0	2319.0	67.0	670.0			WL
	500	HIRA	21	GRF	2301.0	2347.0	77.0	10.0			0

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
08	4995	LEAR	48	C	2303.0	2318.0	109.0	420.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	2304.0	2305.0	1.0	40.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2305.0	2318.0	96.0	240.0			QL=4 ST=2 TYP=3
	15400	PALE	20	GRF	2306.0	2343.0	66.0	160.0			QL=4 ST=2 TYP=2
	8800	LEAR	48	C	2306.0	2318.0	72.0	210.0			QL=4 ST=2 TYP=8
	500	HIRA	4	S/F	2311.0	2311.0	10.0	20.0			WR
	2840	PEKG	47	GB	2316.0E	2319.1	64.0D	765.1			
	610	LEAR	8	S	2326.0	2326.0	U	21.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	2326.0	2326.0	U	21.0			QL=4 ST=2 TYP=3
09	127	TORN	44	NS	0640.0E		500.0D		5.0		V=1
	600	GORK	42	SER	0903.0	0903.1	5.0	5.0			
	600	GORK	42	SER	0903.0	0907.6		3.0			
	900	GORK	1	S	0905.2	0905.4	0.8	9.0			
	9100	GORK	4	S/F	0907.4	0907.6	0.5	32.0			
	204	IZMI	7	C	1018.9	1019.0	0.2	27.0			
	9500	CUBA	22	GRF	1531.0	1531.0	78.0	12.0	6.0		
	6700	CUBA	22	GRF	1545.0	1558.0	124.0	20.0	10.0		18L
	2800	PENT	1	S	1608.0	1612.0	9.0	12.0			
	2800	PENT	40	F	2108.0	2120.0	24.0U	25.0			
	200	HIRA	42	SER	2248.0	2256.0	9.0	40.0			0
	500	HIRA	42	SER	2252.0	2256.0	5.0	50.0			0
	410	LEAR	4	S/F	2254.0	2256.0	3.0	320.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2256.0	2256.0	1.0	260.0			QL=4 ST=2 TYP=3
10	4995	PALE	49	GB	0144.0	0150.0	8.0	6100.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	0149.0	0149.0	1.0	830.0			QL=4 ST=2 TYP=6
	200	HIRA	8	S	2236.0	2236.0	2.0	50.0			WL
11	2840	PEKG	1	S	0738.0	0740.2	5.0	4.6			
	3000	IZMI	5	S	0739.1	0739.9	1.3	9.0			
	204	IZMI	42	SER	0829.1	0832.3	3.6	56.0			
	3000	IZMI	7	C	0928.1	0928.2	0.2	49.0	14.0		
	33	UPIC	46	C	1200.0	1200.5	3.0				
	245	SGMR	4	S/F	1842.0	1843.0	3.0	120.0			QL=4 ST=2 TYP=3
12	200	HIRA	8	S	0626.0	0628.0	2.0	60.0			WL
	245	LEAR	8	S	0848.0	0849.0	1.0	150.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0848.8	0849.0	0.4	288.0			
	204	IZMI	7	C	0853.2	0853.3	0.2	90.0			
	600	GORK	42	SER	0923.8	0924.2	2.4	11.0			
	600	GORK	42	SER	0923.8	0926.6		65.0			
	900	GORK	42	SER	0923.8	0926.6	2.8	30.0			
	204	IZMI	41	F	0945.5	0946.0	0.9	28.0			
	204	IZMI	7	C	0952.2	0952.4	0.4	13.0			
	3000	IZMI	7	C	1013.2	1013.3	0.2	42.0	11.0		
	204	IZMI	7	C	1016.9	1017.0	0.2	40.0			
	9500	CUBA	20	GRF	1404.0	1433.0	80.0	10.0	5.0		
	6700	CUBA	20	GRF	1411.0	1427.0	90.0	13.0	6.0		9R
13	204	IZMI	43	NS	0700.0		220.0U		10.0		
	127	TORN	44	NS	1030.0E		270.0D		11.0		V=1
	204	IZMI	42	SER	0658.5	0658.5	2.4	18.0			
	2800	PENT	21	GRF	1617.0	1625.0	45.0	9.0			
	245	SGMR	8	S	1840.0	1840.0	U	52.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2330.0	2330.0	1.0	60.0			0
14	204	IZMI	43	NS	0700.0		300.0D		10.0		
	245	SVTO	43	NS	1028.0	1228.0	120.0	360.0			QL=2 ST=2 TYP=1
	410	SVTO	43	NS	1122.0	1148.0	75.0	190.0			QL=2 ST=2 TYP=1
	127	TORN	44	NS	1230.0E		130.0D		16.0		V=1
	200	HIRA	8	S	0339.0	0340.0	1.0	120.0			WR
	8800	LEAR	20	GRF	0339.0	0350.0	1221.0	48.0			QL=4 ST=1 TYP=2
	200	HIRA	42	SER	0416.0	0420.0	5.0	170.0			0
	200	HIRA	8	S	0434.0	0436.0	2.0	40.0			0
	200	HIRA	42	SER	0457.0	0459.0	3.0	130.0			0
	245	SVTO	8	S	0717.0	0718.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0741.0	0741.0	U	66.0			QL=4 ST=2 TYP=3
	3000	IZMI	20	GRF	0752.5	0756.6	7.5	9.0	4.0		

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	600	GORK	46	C	0752.7	0756.4	7.3	110.0			
	204	IZMI	42	SER	0754.2	0756.1	4.8	162.0			
	900	GORK	46	C	0754.4	0757.1	3.8	680.0			
	610	SVTO	8	S	0755.0	0756.0	2.0	68.0			QL=4 ST=3 TYP=3
	204	IZMI	25	R	0802.8	0830.7	128.2	23.0	11.0		
	600	GORK	22	GRF	0806.6	0816.2	21.3	17.0			
	3000	IZMI	20	GRF	0807.1	0846.2	117.7	11.0			
	245	SVTO	8	S	0857.0	0858.0	2.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0939.0	0939.0	2.0	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0950.0	0952.0	2.0	86.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	1026.4	1026.6	0.3	20.0			
	204	IZMI	46	C	1030.4	1030.8	0.7	108.0			
	204	IZMI	41	F	1031.9	1032.5	0.8	41.0			
	204	IZMI	7	C	1042.2	1042.3	0.3	24.0			
	204	IZMI	42	SER	1115.8	1115.8	0.6	66.0			
	204	IZMI	42	SER	1153.0	1153.8	2.2	23.0			
	127	TORN	48	C	1332.0	1333.7	3.6	330.0	80.0		
	245	SGMR	8	S	1410.0	1410.0	2.0	82.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1410.0	1410.0	U	91.0			QL=4 ST=2 TYP=3
	2800	PENT	21	GRF	1615.0	1629.0	37.0	25.0			
	6700	CUBA	21	GRF	1627.0	1641.0	30.0	4.0	2.0		OOL
	8800	SGMR	8	S	1628.0	1629.0	2.0	39.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1628.0	1629.0	1.0	29.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1628.0	1629.0	2.0	140.0			QL=4 ST=2 TYP=3
	9500	CUBA	20	GRF	1628.0	1629.0	28.0	18.0	9.0		
	6700	CUBA	2	S/F	1628.2	1629.5	5.8	30.0	15.0		OOL
	245	PALE	8	S	1914.0	1914.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1914.0	1914.0	1.0	130.0			QL=4 ST=2 TYP=3
15	127	TORN	44	NS	0650.0E		490.0D		21.0		V=0
	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	2800	HIRA	3	S	0242.0	0245.0	5.0	50.0			0
	500	HIRA	8	S	0242.0	0244.0	4.0	330.0			0
	200	HIRA	8	S	0242.0	0244.0	3.0	110.0			0
	2840	PEKG	5	S	0242.0	0244.9	7.0	56.1			
	8800	LEAR	8	S	0243.0	0244.0	2.0	93.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0243.0	0244.0	2.0	95.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	0243.0	0244.0	2.0	780.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	0243.0	0244.0	1.0	270.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0243.0	0244.0	1.0	200.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0244.0	0244.0	1.0	52.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0244.0	0244.0	U	28.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0244.0	0244.0	1.0	38.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0244.0	0244.0	1.0	90.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0244.0	0244.0	1.0	69.0			QL=4 ST=2 TYP=3
	3000	IZMI	5	S	0711.5	0711.5	0.2	38.0	10.0		
	3000	IZMI	20	GRF	0727.9	0729.8	2.5	10.0	5.0		
	204	IZMI	42	SER	0855.2	0855.8	1.6	70.0			
	33	UPIC	46	C	0855.5	0856.0	1.5				
	204	IZMI	42	SER	0859.6	0859.7	1.1	94.0			
	6700	CUBA	1	S	1820.4	1821.0	1.6	6.0	3.0		14R
	6700	CUBA	1	S	2045.8	2046.6	1.8	6.0	3.0		21R
16	204	IZMI	44	NS	0700.0E		300.0D		5.0		
	2840	PEKG	1	S	0141.0	0143.5	5.0	7.8			
	2840	PEKG	1	S	0216.0	0218.2	4.0	7.8			
	500	HIRA	8	S	0218.0	0218.0	1.0	20.0			0
	9100	GORK	8	S	0725.8	0726.0	0.4	45.0			
	204	IZMI	42	SER	1036.9	1037.3	1.3	74.0			
	33	UPIC	48	C	1101.0	1102.0	10.0				UNCERTN
	245	SGMR	8	S	1844.0	1844.0	1.0	110.0			QL=4 ST=2 TYP=3
17	204	IZMI	44	NS	0700.0E		300.0D		10.0		
	200	HIRA	7	C	0203.0	0206.0	4.0	60.0			
	204	IZMI	25	R	1101.0		59.0D		30.0		
	204	IZMI	45	C	1111.4	1111.9	0.9	143.0			
	6700	CUBA	20	GRF	1825.0	2100.0	2100.0	18.0	9.0		OOL
	2800	PENT	1	S	1845.0	1849.0	8.0	6.0			
	2800	PENT	24	R	2031.0	2109.0	61.0U	14.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
18	204	IZMI	44	NS	0700.0E		300.0D		13.0		
	2840	PEKG	1	S	0143.0	0145.8	5.0	5.1			
	2840	PEKG	5	S	0225.0	0228.1	6.0	11.4			
	245	LEAR	4	S/F	0520.0	0522.0	3.0	65.0			QL=4 ST=2 TYP=3
┌	900	GORK	46	C	0704.0	0705.0		15.0			
├	900	GORK	46	C	0704.0	0704.2	2.0	18.0			
├	9100	GORK	41	F	0705.2	0705.7	3.8	6.7			
└	9100	GORK	41	F	0705.2	0707.9		6.7			
┌	9100	GORK	2	S/F	0806.4	0806.6	0.4	20.0			
└	204	IZMI	41	F	0806.9	0807.4	1.4	59.0			
┌	204	IZMI	41	F	0817.1	0817.7	2.9	71.0			
└	600	GORK	1	S	0817.3	0818.0	2.3	4.0			
┌	900	GORK	2	S/F	0820.2	0821.7	2.8	8.0			
├	245	LEAR	8	S	0821.0	0821.0	1.0	130.0			QL=4 ST=2 TYP=3
├	245	SVTO	8	S	0821.0	0821.0	1.0	120.0			QL=4 ST=2 TYP=3
└	204	IZMI	42	SER	0821.4	0821.9	2.2	103.0			
	204	IZMI	42	SER	0831.8	0833.8	4.8	48.0			
	204	IZMI	42	SER	0901.6	0903.7	3.9	134.0			
	204	IZMI	42	SER	0934.9	0935.3	1.5	20.0			
	204	IZMI	7	C	0950.1	0950.3	0.3	59.0			
	410	LEAR	8	S	0953.0	0953.0	U	34.0			QL=4 ST=2 TYP=3
┌	9100	GORK	21	GRF	1051.0	1100.6	9.5D	27.0			
├	900	GORK	46	C	1052.4	1055.0	7.8	40.0			
├	900	GORK	46	C	1052.4	1056.1		32.0			
├	4995	SVTO	4	S/F	1053.0	1054.0	8.0	180.0			QL=4 ST=2 TYP=3
├	2695	SVTO	4	S/F	1053.0	1055.0	8.0	79.0			QL=4 ST=2 TYP=3
├	245	SVTO	8	S	1053.0	1054.0	2.0	240.0			QL=4 ST=2 TYP=3
├	1415	SVTO	4	S/F	1053.0	1054.0	7.0	270.0			QL=4 ST=2 TYP=3
├	8800	SVTO	4	S/F	1053.0	1054.0	8.0	130.0			QL=4 ST=2 TYP=3
├	3000	IZMI	45	C	1053.4	1055.0	6.5	122.0	62.0		
├	9100	GORK	46	C	1053.7	1055.0		100.0			
├	9100	GORK	46	C	1053.7	1056.5		35.0			
├	9100	GORK	46	C	1053.7	1054.6	5.5	55.0			
├	600	GORK	46	C	1053.9	1057.0	4.4	80.0			
├	410	SVTO	8	S	1054.0	1055.0	1.0	85.0			QL=4 ST=2 TYP=3
├	610	SVTO	4	S/F	1054.0	1055.0	4.0	160.0			QL=4 ST=2 TYP=3
├	15400	SVTO	4	S/F	1054.0	1055.0	7.0	38.0			QL=4 ST=2 TYP=3
└	33	UPIC	46	C	1054.0	1054.5	1.5				
┌	900	GORK	46	C	1103.6	1106.2	6.4	12.0			
├	900	GORK	46	C	1103.6	1107.9		12.0			
└	600	GORK	1	S	1105.0	1107.9	5.5	4.0			
┌	8800	SGMR	20	GRF	1304.0	1316.0	37.0	83.0			QL=4 ST=2 TYP=2
├	9500	CUBA	21	GRF	1306.0	1331.0	173.0	29.0	14.0		
├	2695	SVTO	20	GRF	1308.0	1316.0	9.0	61.0			QL=4 ST=2 TYP=2
├	410	SVTO	48	C	1308.0	1316.0	16.0	180.0			QL=4 ST=2 TYP=8
├	410	SGMR	48	C	1308.0	1315.0	33.0	180.0			QL=4 ST=2 TYP=8
├	2695	SGMR	20	GRF	1308.0	1316.0	33.0	74.0			QL=4 ST=2 TYP=2
├	6700	CUBA	21	GRF	1308.0E	1320.0	166.0D	42.0	21.0		14L
├	4995	SVTO	20	GRF	1309.0	1316.0	8.0	48.0			QL=4 ST=2 TYP=2
├	4995	SGMR	20	GRF	1309.0	1316.0	29.0	46.0			QL=4 ST=2 TYP=2
├	6700	CUBA	4	S/F	1309.0	1316.2	8.4	30.0	15.0		40L
├	9500	CUBA	2	S/F	1309.8	1310.2	1.4	14.0	7.0		
├	15400	SVTO	8	S	1310.0	1311.0	1.0	26.0			QL=4 ST=2 TYP=3
├	245	SGMR	49	GB	1311.0	1312.0	30.0	1500.0			QL=4 ST=2 TYP=6
├	245	SVTO	49	GB	1311.0	1312.0	34.0	1400.0			QL=4 ST=3 TYP=6
├	610	SGMR	4	S/F	1312.0	1314.0	29.0	310.0			QL=4 ST=2 TYP=3
├	610	SVTO	8	S	1313.0	1314.0	1.0	220.0			QL=4 ST=2 TYP=3
├	1415	SVTO	4	S/F	1313.0	1316.0	5.0	85.0			QL=4 ST=2 TYP=3
├	9500	CUBA	2	S/F	1313.8	1315.0	3.2	11.0	5.0		
├	8800	SVTO	8	S	1314.0	1314.0	1.0	22.0			QL=4 ST=2 TYP=3
├	1415	SGMR	4	S/F	1314.0	1316.0	27.0	87.0			QL=4 ST=2 TYP=3
└	15400	SGMR	20	GRF	1315.0	1329.0	26.0	31.0			QL=4 ST=2 TYP=2
	6700	CUBA	20	GRF	1647.0	1701.0	35.0	5.0	2.0		9L
	200	HIRA	8	S	2317.0	2318.0	2.0	30.0			WL
19	9100	GORK	8	S	0733.9	0734.1	0.4	50.0			
┌	900	GORK	2	S/F	0904.8	0905.0	0.5	7.0			
└	600	GORK	4	S/F	0904.9	0905.1	0.7	80.0			
┌	900	GORK	42	SER	0924.9	0925.0	10.9	15.0			

SOLAR RADIO EMISSION

Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	900	GORK	42	SER	0924.9	0935.6		15.0			
	600	GORK	42	SER	0933.4	0934.0	4.3	42.0			
	600	GORK	42	SER	0933.4	0937.1		8.0			
	600	GORK	42	SER	0933.4	0936.5		6.0			
	600	GORK	42	SER	1005.3	1008.1		12.0			
	600	GORK	42	SER	1005.3	1005.8	3.3	3.0			
	600	GORK	4	S/F	1100.7	1101.0	0.9	87.0			
	900	GORK	2	S/F	1101.1	1101.2	0.3	7.0			
	245	SGMR	4	S/F	1351.0	1353.0	3.0	99.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1353.0	1353.0	U	70.0			QL=4 ST=2 TYP=3
20	2840	PEKG	1	S	0113.0	0116.0	5.0	7.2			
	600	GORK	45	C	0604.6	0607.0	11.3	10.0			
	600	GORK	45	C	0604.6	0610.5		12.0			
	600	GORK	45	C	0604.6	0608.8		11.0			
	900	GORK	45	C	0606.0	0610.0		20.0			
	900	GORK	45	C	0606.0	0607.0	6.0	12.0			
	2840	PEKG	3	S	0606.0	0608.8	11.0	28.4			
	204	IZMI	42	SER	0659.2	0659.5	5.5	36.0			
	204	IZMI	42	SER	0754.5	0759.1	8.1	100.0			
	3000	IZMI	22	GRF	0933.7	0934.3	3.2	14.0	5.0		
	9100	GORK	46	C	1001.0	1001.6	0.8	46.0			
	3000	IZMI	20	GRF	1019.4	1042.4	100.6D	16.0			
	204	IZMI	41	F	1155.5	1155.6	2.8	18.0			
	6700	CUBA	20	GRF	1311.0E	1311.0	69.0D	12.0	6.0		9L
	245	SVTO	8	S	1348.0	1349.0	2.0	81.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1351.0	1351.0	U	270.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1351.0	1351.0	U	230.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1352.0	1352.0	U	47.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1550.0	1550.0	1.0	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1553.0	1553.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1652.0	1652.0	2.0	690.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1740.0	1740.0	2.0	930.0			QL=4 ST=3 TYP=6
	245	SGMR	8	S	1846.0	1846.0	U	270.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1920.0	1920.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2034.0	2034.0	1.0	91.0			QL=4 ST=2 TYP=3
21	204	IZMI	44	NS	0700.0E		300.0D		30.0		
	127	TORN	44	NS	1200.0E		150.0D		21.0		V=2
	245	SVTO	43	NS	1318.0	1334.0	105.0	120.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1436.0	1648.0	279.0	120.0			QL=4 ST=2 TYP=1
	2840	PEKG	1	S	0020.0	0022.5	5.0	6.3			
	245	LEAR	8	S	0049.0	0049.0	U	58.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0628.0	0630.9	6.0	85.4			
	1415	LEAR	8	S	0629.0	0630.0	2.0	59.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0629.0	0630.0	2.0	30.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0629.0	0630.0	2.0	260.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	0629.0	0633.0	5.0	34.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0629.0	0630.0	2.0	76.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0630.0	0630.0	1.0	56.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0630.0	0630.0	1.0	60.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0630.0	0630.0	U	50.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0630.0	0630.0	1.0	58.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0630.0	0630.0	1.0	51.0			QL=2 ST=2 TYP=3
	9100	GORK	46	C	0630.0	0630.7	1.7	200.0			
	600	GORK	2	S/F	0847.8	0848.2	1.0	3.0			
	900	GORK	46	C	0851.1	0851.9	1.7	24.0			
	3000	IZMI	22	GRF	0920.1	0924.0	6.1	9.0	5.0		
	33	UPIC	45	C	1220.0	1220.5	1.0				
	245	SVTO	8	S	1311.0	1312.0	1.0	220.0			QL=2 ST=3 TYP=3
	245	SGMR	8	S	1325.0	1325.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1334.0	1334.0	1.0	97.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1342.5	1343.0	1.0				
	410	SGMR	8	S	1705.0	1705.0	1.0	73.0			QL=4 ST=3 TYP=3
	6700	CUBA	21	GRF	1820.0	1933.0	228.0	17.0	8.0		00L
	2800	PENT	1	S	1900.0	1902.0	4.0	4.0			
	2800	PENT	29	PBI	1913.0	1917.0	19.0U	30.0			
	9500	CUBA	21	GRF	1914.0	1928.0	89.0	12.0	6.0		
	8800	PALE	4	S/F	1916.0	1917.0	4.0	52.0			QL=4 ST=2 TYP=3

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

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
21	4995	PALE	4	S/F	1916.0	1917.0	4.0	36.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	1917.0	1917.0	1.0	29.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1917.0	1917.0	3.0	32.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1917.0	1917.0	3.0	60.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1917.0	1917.0	3.0	53.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1917.0	1917.0	3.0	33.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1917.0	1917.5	1.5	47.0	23.0		
	6700	CUBA	2	S/F	1917.0	1917.5	1.8	40.0	20.0		1L
22	245	LEAR	43	NS	0012.0	0220.0	397.0	200.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		35.0		
	127	TORN	44	NS	0700.0E		490.0D		25.0		V=2
	245	LEAR	43	NS	0933.0	0947.0	23.0	130.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0952.0	1210.0	310.0	520.0			QL=2 ST=2 TYP=1
	410	SVTO	43	NS	0952.0	1126.0U	168.0	300.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1225.0	1916.0	480.0	330.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	1746.0	1811.0	101.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1746.0	2326.0	374.0	210.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1746.0	1812.0	374.0	110.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	2215.0	0102.0	700.0	300.0			QL=4 ST=2 TYP=1
	200	HIRA	47	GB	0123.0	0124.0	1.0	1250.0			WL
	500	HIRA	8	S	0123.0	0123.0	1.0	40.0			ML
	410	LEAR	8	S	0123.0	0123.0	U	300.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0123.0	0123.0	U	43.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0123.0	0123.0	U	1700.0			QL=4 ST=2 TYP=6
	2840	PEKG	45	C	0145.0	0147.3	7.0	24.2			
	200	HIRA	8	S	0151.0	0152.0	1.0	190.0			WL
	200	HIRA	47	GB	0220.0	0220.0	1.0	820.0			WL
	200	HIRA	8	S	0355.0	0355.0	1.0	70.0			0
	2950	GORK	45	C	0626.6	0627.5	2.9	5.5			
	2950	GORK	45	C	0626.6	0628.8		7.2			
	900	GORK	2	S/F	0627.0	0627.7	1.3	8.0			
	9100	GORK	2	S/F	0627.0	0627.8	3.5	6.8			
	200	HIRA	8	S	0648.0	0648.0	1.0	140.0			0
	245	SVTO	8	S	0648.0	0648.0	U	130.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0702.7	0703.5	1.5	150.0			
	410	LEAR	8	S	0704.0	0705.0	2.0	57.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0704.0	0705.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0705.0	0705.0	1.0	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0705.0	0705.0	U	68.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0715.0	0716.0	1.0	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0801.0	0801.0	U	85.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0803.0	0806.0	6.0	11.8			
	9100	GORK	46	C	0803.8	0806.1		20.0			
	9100	GORK	46	C	0803.8	0804.8	6.9	19.0			
	9100	GORK	46	C	0803.8	0806.8		19.0			
	600	GORK	41	F	0804.3	0806.5	4.0	18.0			
	3000	IZMI	41	F	0804.4	0806.3	2.6	17.0	5.0		
	2950	GORK	42	SER	0804.5	0806.3		10.0			
	2950	GORK	42	SER	0804.5	0807.5		5.9			
	2950	GORK	42	SER	0804.5	0804.8	3.3	5.0			
	1415	SVTO	4	S/F	0805.0	0806.0	3.0	84.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0806.0	0806.0	1.0	95.0			QL=4 ST=2 TYP=3
	900	GORK	42	SER	0806.0	0806.2	2.3	90.0			
	900	GORK	42	SER	0806.0	0808.2		18.0			
	900	GORK	42	SER	0806.0	0806.8		95.0			
	204	IZMI	42	SER	0827.3	0829.4	2.3	104.0			
	410	SVTO	8	S	0829.0	0829.0	U	79.0			QL=4 ST=2 TYP=3
	204	IZMI	45	C	0830.8	0830.9	0.2	264.0			
	245	LEAR	8	S	0831.0	0831.0	1.0	100.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	0831.7	0831.9	0.6	270.0			
	410	SVTO	8	S	0838.0	0838.0	1.0	260.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0841.0	0841.0	U	260.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0851.0	0851.0	U	120.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0900.0	0900.3	1.0				
	245	LEAR	8	S	0929.0	0929.0	2.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0929.0	0929.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0930.0	0932.0	2.0	110.0			QL=4 ST=2 TYP=3
	2950	GORK	20	GRF	1042.5	1052.0	13.5	59.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
22	900	GORK	41	F	1043.0	1044.0	4.1	9.0			
	245	SVTO	49	GB	1043.0	1043.0	3.0	2200.0			QL=2 ST=3 TYP=6
	900	GORK	41	F	1043.0	1045.5		11.0			
	204	IZMI	46	C	1043.4	1043.7	1.2	656.0			
	600	GORK	41	F	1043.5	1044.0		11.0			
	600	GORK	41	F	1043.5	1046.0		10.0			
	600	GORK	41	F	1043.5	1043.6	2.7	12.0			
	204	IZMI	42	SER	1045.7	1045.8	0.5	334.0			
	204	IZMI	25	R	1155.0	1156.4	3.8	182.0			
	245	SGMR	49	GB	1239.0	1240.0	1.0	510.0			QL=4 ST=2 TYP=6
	2800	PENT	29	PBI	1614.0	1619.0	78.0U	315.0			
	610	SGMR	4	S/F	1619.0	1620.0	6.0	76.0			QL=4 ST=2 TYP=3
	2695	SGMR	49	GB	1619.0	1619.0	6.0	500.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1619.0	1619.0	6.0	1600.0			QL=4 ST=2 TYP=6
	245	SGMR	49	GB	1619.0	1622.0	6.0	12000.0			QL=4 ST=2 TYP=6
	15400	SGMR	4	S/F	1619.0	1619.0	6.0	310.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1619.0	1619.0	6.0	350.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1619.0	1619.0	3.0	150.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1619.0	1619.0	6.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1632.0	1632.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1808.0	1808.0	U	84.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1825.0	1825.0	U	680.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1939.0	1939.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2304.0	2305.0	1.0	440.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	2310.0	2310.0	U	620.0			QL=4 ST=2 TYP=6
	200	HIRA	7	C	2326.0	2330.0	6.0	330.0			WL
23	245	SVTO	43	NS	0607.0	0729.0U	337.0	260.0			QL=2 ST=3 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		95.0		
	127	TORN	44	NS	0700.0E		490.0D		500.0		V=1
	245	SGMR	43	NS	1304.0	1443.0	354.0	270.0			QL=4 ST=2 TYP=1
	200	HIRA	8	S	0016.0	0018.0	2.0	360.0			0
	2840	PEKG	1	S	0229.0	0230.9	4.0	5.3			
	2840	PEKG	5	S	0238.0	0240.5	5.0	13.2			
	200	HIRA	8	S	0404.0	0405.0	1.0	400.0			0
	245	LEAR	49	GB	0404.0	0404.0	1.0	2000.0			QL=4 ST=2 TYP=6
	2840	PEKG	3	S	0533.0	0537.5	11.0	28.4			
	410	LEAR	4	S/F	0535.0	0539.0	6.0	270.0			QL=4 ST=2 TYP=3
	200	HIRA	4	S/F	0536.0	0537.0	4.0	40.0			WR
	500	HIRA	4	S/F	0536.0	0540.0	6.0	260.0			MR
	610	LEAR	4	S/F	0536.0	0538.0	5.0	310.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0536.0	0537.0	4.0	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0537.0	0538.0	1.0	210.0			QL=4 ST=2 TYP=3
	410	LEAR	48	C	0543.0	0547.0	6.0	82.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0613.0	0614.0	1.0	95.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0625.0	0625.0	U	21.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	0626.0	0628.0	7.0	35.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0712.0		37.0		170.0		
	204	IZMI	45	C	0735.1	0735.2	0.6	969.0			
	204	IZMI	25	R	0816.0		17.0		145.0		
	204	IZMI	7	C	0910.5	0910.7	0.5	152.0			
	204	IZMI	7	C	0913.1	0913.2	0.2	161.0			
	245	SVTO	8	S	1421.0	1421.0	U	81.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1422.0	1422.0	2.0	49.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1422.0	1422.0	2.0	51.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1422.0	1422.0	2.0	61.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1422.0	1422.0	2.0	250.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1422.0	1422.0	2.0	17.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1422.0	1422.0	2.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1422.0	1423.0	2.0	36.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1422.0	1422.0	2.0	58.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1422.0	1422.0	1.0	35.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1422.0	1422.0	1.0	34.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1422.0	1422.0	1.0	37.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1422.0	1422.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	49	GB	1442.0	1443.0	2.0	620.0			QL=4 ST=2 TYP=6
	610	SGMR	8	S	1442.0	1443.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1442.0	1443.0	1.0	8200.0			QL=4 ST=2 TYP=6
	245	SVTO	49	GB	1443.0	1443.0	1.0	6900.0			QL=4 ST=3 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	410	SVTO	49	GB	1443.0	1443.0	1.0	750.0			QL=4 ST=3 TYP=6
	245	SVTO	8	S	1446.0	1447.0	1.0	150.0			QL=4 ST=3 TYP=3
	410	SGMR	8	S	1617.0	1617.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1617.0	1617.0	U	420.0			QL=4 ST=2 TYP=3
	2800	PENT	40	F	1641.0	1652.0	20.0	11.0			
	6700	CUBA	1	S	1651.9	1652.5	2.3	7.0	3.0		24L
	610	SGMR	8	S	1700.0	1700.0	2.0	34.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1700.0	1700.0	2.0	2700.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1700.0	1700.0	2.0	96.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1748.0	1749.0	1.0	150.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1748.0	1749.0	2.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1749.0	1749.0	U	270.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1749.0	1749.0	1.0	280.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1806.0	1807.0	1.0	140.0			QL=4 ST=2 TYP=3
	6700	CUBA	42	SER	1806.0	1821.0	20.0	10.0	5.0		38L
	410	PALE	8	S	1807.0	1807.0	U	200.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1820.0	1821.0	1.0	88.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	2023.0	2050.0	101.0D	27.0	13.0		3L
	2800	PENT	29	PBI	2029.0	2038.0	63.0U	62.0			
	410	PALE	4	S/F	2034.0	2035.0	4.0	140.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	2035.0	2037.0	3.0	230.0			QL=4 ST=2 TYP=3
	9500	CUBA	21	GRF	2035.0	2055.0	85.0D	24.0	12.0		
	6700	CUBA	45	C	2035.0	2038.2	8.4	217.0			17L
	4995	PALE	4	S/F	2036.0	2038.0	5.0	170.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	2037.0	2038.0	3.0	180.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2037.0	2039.0	3.0	70.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2037.0	2038.0	3.0	120.0			QL=4 ST=2 TYP=3
	9500	CUBA	45	C	2037.0	2038.4	4.2	141.0			
	410	PALE	8	S	2055.0	2055.0	1.0	180.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	2232.0	2235.0	4.0	40.0			MR
	2800	PENT	1	S	2233.0	2237.0	7.0	8.0			
	500	HIRA	8	S	2234.0	2234.0	2.0	110.0			0
	410	PALE	8	S	2234.0	2234.0	1.0	76.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2234.0	2234.0	1.0	120.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2251.0	2252.0	1.0	80.0			0
	200	HIRA	8	S	2311.0	2311.0	1.0	60.0			0
	200	HIRA	48	C	2316.0	2319.0	7.0	460.0			0
	2800	HIRA	4	S/F	2317.0	2323.0	10.0	110.0			0
	410	LEAR	8	S	2318.0	2318.0	1.0	59.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	2318.0	2322.0	8.0	400.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	2318.0	2319.0	3.0	750.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2318.0	2319.0	3.0	980.0			QL=4 ST=2 TYP=6
	2695	LEAR	4	S/F	2320.0	2323.0	4.0	85.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	2320.0	2320.0	2.0	30.0			QL=4 ST=2 TYP=3
	8800	LEAR	49	GB	2320.0	2321.0	5.0	660.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	2320.0	2322.0	5.0	420.0			QL=4 ST=2 TYP=3
	8800	PALE	49	GB	2320.0	2322.0	5.0	720.0			QL=4 ST=2 TYP=6
	2695	PALE	4	S/F	2320.0	2323.0	4.0	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	4	S/F	2321.0	2321.0	3.0	360.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	2321.0	2322.0	3.0	470.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	2330.0	2334.3	11.0	23.2			
	4995	LEAR	4	S/F	2332.0	2334.0	4.0	56.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2333.0	2334.0	1.0	28.0			QL=4 ST=2 TYP=3
24	410	LEAR	43	NS	0059.0	0302.0	131.0	130.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0214.0	0242.0	1306.0	110.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0236.0	0657.0	475.0	290.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	0532.0	0541.0	299.0	84.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		360.0D		180.0		
	245	SVTO	43	NS	0609.0	0927.0	532.0	570.0			QL=2 ST=2 TYP=1
	410	SVTO	43	NS	0609.0	0916.0	532.0	340.0			QL=2 ST=2 TYP=1
	127	TORN	44	NS	0700.0E		510.0D		100.0U		V=2,DISTURBED
	610	SVTO	43	NS	1031.0	1049.0	67.0	210.0			QL=2 ST=2 TYP=1
	410	SGMR	43	NS	1210.0	1627.0U	344.0	200.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1210.0	1403.0U	506.0	720.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	1707.0	1721.0	93.0	68.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1707.0	1719.0	413.0	210.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1707.0	1712.0	413.0	150.0			QL=4 ST=1 TYP=1
	410	SGMR	43	NS	1934.0	2024.0U	62.0	120.0			QL=4 ST=2 TYP=1

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	245	LEAR	43	NS	2154.0	0308.0	721.0	720.0			QL=4 ST=3 TYP=1
	410	LEAR	43	NS	2154.0	0028.0	721.0	410.0			QL=4 ST=3 TYP=1
	410	LEAR	8	S	0052.0	0052.0	1.0	74.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0109.0	0109.0	U	94.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0210.0	0216.9	13.0	41.1			
	2695	LEAR	4	S/F	0215.0	0216.0	3.0	30.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0215.0	0216.0	3.0	53.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0216.0	0216.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0231.0	0232.0	3.0	89.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0303.0	0303.0	1.0	100.0			0
	200	HIRA	42	SER	0303.0	0326.0	44.0	130.0			ML
	2840	PEKG	3	S	0352.0	0356.5	10.0	39.9			
	4995	LEAR	8	S	0355.0	0356.0	2.0	54.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0355.0	0356.0	1.0	28.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0356.0	0356.0	U	24.0			QL=4 ST=2 TYP=3
	2840	PEKG	47	GB	0457.0	0459.3	20.0	1147.4			
	410	LEAR	48	C	0458.0	0459.0	8.0	5100.0			QL=4 ST=2 TYP=8
	2695	LEAR	48	C	0458.0	0459.0	9.0	2200.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0458.0	0501.0	8.0	7200.0			QL=4 ST=2 TYP=8
	1415	LEAR	48	C	0458.0	0459.0	9.0	9200.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0458.0	0500.0	18.0	5500.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0458.0	0501.0	14.0	1300.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0458.0	0501.0	12.0	1500.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0458.0	0500.0	22.0	3500.0			QL=4 ST=2 TYP=8
	2800	HIRA	47	GB	0459.0	0459.0	11.0	1730.0			0
	500	HIRA	47	GB	0459.0	0459.0	16.0	2620.0			WL
	200	HIRA	47	GB	0459.0	0459.0	15.0	2880.0			0
	900	GORK	4	S/F	0623.2	0624.9	2.1	90.0U			
	2840	PEKG	5	S	0643.0	0645.6	5.0	15.9			
	2950	GORK	41	F	0715.0	0738.0		55.0			
	2950	GORK	41	F	0715.0	0724.2		9.7			
	2950	GORK	41	F	0715.0	0721.6	25.6	6.2			
	600	GORK	41	F	0715.7	0744.2		19.0			
	600	GORK	41	F	0715.7	0741.2		30.0			
	600	GORK	41	F	0715.7	0737.8	46.7	3.6			
	2840	PEKG	5	S	0719.0	0724.3	7.0	8.6			
	3000	IZMI	22	GRF	0719.9	0724.2	5.6	20.0	8.0		
	204	IZMI	45	C	0723.9	0724.2	0.4	405.0			
	3000	IZMI	20	GRF	0733.7	0734.6	1.9	12.0	5.0		
	2840	PEKG	5	S	0736.0	0737.8	5.0	44.1			
	15400	LEAR	8	S	0737.0	0738.0	1.0	26.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	0737.0	0738.0	1.0	79.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0737.0	0738.0	1.0	83.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0737.0	0738.0	1.0	43.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0737.0	0738.0	1.0	43.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0737.0	0738.0	2.0	110.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0737.0	0737.0	2.0	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0737.0	0737.0	1.0	34.0			QL=4 ST=2 TYP=3
	3000	IZMI	22	GRF	0737.1	0738.1	3.4	66.0	17.0		
	600	GORK	41	F	0849.4	0850.3		6.3			
	600	GORK	41	F	0849.4	0849.9	1.3	13.0			
	2950	GORK	41	F	0849.7	0850.3		2.6			
	2950	GORK	41	F	0849.7	0849.9	0.9	2.6			
	204	IZMI	25	R	0901.0		80.0U		280.0		
	204	IZMI	41	F	0904.8	0905.1	0.7	1226.0			
	410	LEAR	48	C	0915.0	0915.0	15.0	270.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0915.0	0927.0	15.0	570.0			QL=4 ST=2 TYP=8
	900	GORK	41	F	0934.0	1007.7		48.0			
	900	GORK	41	F	0934.0	0953.7		9.4			
	900	GORK	41	F	0934.0	0934.8	71.0	200.0U			
	600	GORK	41	F	0956.4	1018.7		7.3			
	600	GORK	41	F	0956.4	0956.9	58.7	10.0			
	2950	GORK	1	S	0957.8	0959.0	1.8	3.5			
	610	SVTO	8	S	1137.0	1138.0	2.0	50.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1138.0	1138.0	1.0	600.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1138.0	1138.0	1.0	250.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1138.2	1138.4	0.6	1144.0	9.0		
	6700	CUBA	28	PRE	1448.0	1453.5	5.5	12.0	6.0		28L
	4995	SGMR	48	C	1453.0	1508.0	76.0	2700.0			QL=4 ST=2 TYP=8

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	410	SGMR	48	C	1453.0	1509.0	79.0	6200.0			QL=2 ST=2 TYP=8
	245	SGMR	48	C	1453.0	1507.0	79.0	3800.0			QL=2 ST=2 TYP=8
	9500	CUBA	47	GB	1453.4	1509.2	22.6	3252.0	1626.0		
	6700	CUBA	47	GB	1453.5	1509.2	22.5	3724.0	1862.0		12L
	1415	SGMR	48	C	1454.0	1508.0	31.0	3600.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1454.0	1509.0	78.0	7300.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1454.0	1508.0	78.0	35000.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	1455.0	1508.0	77.0	1400.0			QL=4 ST=2 TYP=8
	410	SVTO	49	GB	1456.0	1457.0	1.0	1100.0			QL=4 ST=3 TYP=6
	245	SVTO	49	GB	1456.0	1501.0	5.0	690.0			QL=4 ST=3 TYP=6
	15400	SGMR	48	C	1500.0	1508.0	72.0	14000.0			QL=4 ST=2 TYP=8
	6700	CUBA	29	PBI	1516.0		49.0	457.0	228.0		00L
	9500	CUBA	29	PBI	1516.0		51.0	364.0	182.0		
	6700	CUBA	47	GB	2143.8	2153.0	21.2	610.0	305.0		5L
	610	PALE	4	S/F	2144.0	2148.0	46.0	340.0			QL=4 ST=2 TYP=3
	9500	CUBA	47	GB	2145.0	2153.0	20.0D	797.0	398.0		
	8800	PALE	49	GB	2146.0	2153.0	44.0	610.0			QL=4 ST=2 TYP=6
	4995	PALE	48	C	2148.0	2153.0	30.0	280.0			QL=4 ST=2 TYP=8
	1415	PALE	4	S/F	2152.0	2153.0	3.0	82.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2152.0	2153.0	3.0	110.0			QL=4 ST=2 TYP=3
	15400	PALE	49	GB	2152.0	2153.0	34.0	560.0			QL=4 ST=2 TYP=6
	245	PALE	48	C	2154.0	2206.0	36.0	1100.0			QL=4 ST=2 TYP=8
	2695	LEAR	8	S	2154.0E	2154.0U	U	35.0			QL=4 ST=2 TYP=3
	4995	LEAR	48	C	2154.0E	2208.0U	29.0D	710.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	2154.0E	2209.0U	37.0D	390.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	2157.0E	2209.0U	36.0D	540.0			QL=4 ST=2 TYP=8
	1415	LEAR	8	S	2200.0E	2200.0U	U	190.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	2201.0E	2208.0U	22.0D	720.0			QL=4 ST=2 TYP=8
	610	LEAR	4	S/F	2205.0E	2209.0U	4.0D	180.0			QL=4 ST=2 TYP=3
	410	LEAR	4	S/F	2205.0E	2205.0U	13.0D	490.0			QL=4 ST=2 TYP=3
	8800	LEAR	8	S	2239.0	2239.0	1.0	34.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	2239.0	2239.0	1.0	59.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	2239.0	2239.0	U	25.0			QL=4 ST=2 TYP=3
25	245	SVTO	43	NS	0657.0	0849.0	484.0	710.0			QL=2 ST=3 TYP=1
	204	IZMI	44	NS	0700.0E		130.0D		160.0		
	127	TORN	44	NS	0700.0E		490.0D				V=1
	410	SVTO	43	NS	0754.0	0946.0	137.0	77.0			QL=2 ST=2 TYP=1
	245	SVTO	43	NS	0757.0	0849.0	424.0	710.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0951.0E		69.0D		92.0		
	245	SGMR	43	NS	1213.0	1656.0	496.0	1300.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1419.0	1520.0	370.0	260.0			QL=4 ST=2 TYP=1
	410	SVTO	43	NS	1422.0	1429.0	39.0	120.0			QL=2 ST=2 TYP=1
	410	PALE	43	NS	1708.0	1719.0	231.0	220.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1708.0	1718.0	325.0	190.0			QL=4 ST=2 TYP=1
	610	SGMR	43	NS	1731.0	1745.0	137.0	71.0			QL=4 ST=2 TYP=1
	245	PALE	49	GB	0004.0	0004.0	U	530.0			QL=4 ST=2 TYP=6
	2840	PEKG	47	GB	0054.0	0131.6U	125.0	11290.7			
	1415	LEAR	48	C	0055.0	0142.0	110.0	8000.0			QL=4 ST=2 TYP=8
	245	PALE	49	GB	0055.0	0056.0	130.0	700.0			QL=4 ST=2 TYP=6
	2800	HIRA	47	GB	0057.0	0131.0	110.0	11340.0			SL
	2695	LEAR	48	C	0058.0	0131.0	105.0	11000.0			QL=4 ST=2 TYP=8
	4995	LEAR	48	C	0058.0	0122.0	111.0	5000.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	0058.0	0131.0	127.0	13000.0			QL=4 ST=2 TYP=8
	500	HIRA	47	GB	0059.0	0146.0	82.0	840.0			0
	1415	PALE	48	C	0059.0	0143.0	109.0	7800.0			QL=4 ST=2 TYP=8
	8800	LEAR	48	C	0100.0	0122.0	95.0	2800.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	0100.0	0122.0	101.0	4700.0			QL=4 ST=2 TYP=8
	15400	LEAR	48	C	0102.0	0122.0	89.0	1700.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	0103.0	0145.0	96.0	2000.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	0104.0	0122.0	57.0	1700.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	0104.0	0122.0	60.0	2800.0			QL=4 ST=2 TYP=8
	610	LEAR	48	C	0104.0	0145.0	87.0	1300.0			QL=4 ST=2 TYP=8
	245	LEAR	48	C	0107.0	0108.0	78.0	880.0			QL=4 ST=2 TYP=8
	200	HIRA	7	C	0108.0	0114.0	22.0	360.0			SR
	410	PALE	48	C	0113.0	0113.0	12.0	540.0			QL=4 ST=2 TYP=8
	410	LEAR	48	C	0113.0	0146.0	70.0	650.0			QL=4 ST=2 TYP=8
	200	HIRA	8	S	0212.0	0212.0	1.0	460.0			MR
	200	HIRA	7	C	0353.0	0356.0	4.0	220.0			0

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	245	LEAR	8	S	0353.0	0354.0	2.0	270.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0353.0	0354.0	1.0	70.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0452.0	0452.0	1.0	180.0			MR
	2950	GORK	22	GRF	0554.0E	0557.5	11.0D	6.3			
	600	GORK	45	C	0555.0	0557.0U	2.8	4.0			
	900	GORK	4	S/F	0556.2	0557.7	2.1	41.0			
	410	SVTO	8	S	0734.0	0734.0	U	53.0			QL=4 ST=2 TYP=3
	204	IZMI	41	F	0824.7	0824.8	0.4	1014.0			
	600	GORK	46	C	0904.9	0911.8	15.5	200.0			
	2950	GORK	45	C	0905.9	0918.2		100.0			
	2950	GORK	45	C	0905.9	0912.9	14.4	120.0			
	3000	IZMI	46	C	0906.1	0918.3	39.7	141.0	33.0		
	9100	GORK	46	C	0907.7	0918.4		160.0			
	9100	GORK	46	C	0907.7	0912.7	12.7	230.0			
	4995	SVTO	48	C	0908.0	0912.0	36.0	230.0			QL=4 ST=2 TYP=8
	204	IZMI	46	C	0908.9	0925.4	42.0	699.0			
	610	SVTO	4	S/F	0909.0	0911.0	4.0	170.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0909.0	0911.0	18.0	220.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0909.0	0912.0	14.0	220.0			QL=4 ST=2 TYP=3
	2695	SVTO	20	GRF	0909.0	0918.0	13.0	100.0			QL=4 ST=2 TYP=2
	8800	SVTO	48	C	0909.0	0912.0	35.0	230.0			QL=4 ST=2 TYP=8
	900	GORK	46	C	0909.0	0911.9	12.8	230.0			
	8800	LEAR	4	S/F	0910.0	0912.0	11.0	170.0			QL=4 ST=2 TYP=3
	2695	LEAR	48	C	0910.0	0918.0	10.0	100.0			QL=4 ST=2 TYP=8
	1415	SVTO	48	C	0910.0	0918.0	10.0	500.0			QL=4 ST=2 TYP=8
	15400	SVTO	20	GRF	0910.0	0918.0	34.0	110.0			QL=4 ST=2 TYP=2
	410	SVTO	20	GRF	0910.0	0922.0	32.0	320.0			QL=4 ST=2 TYP=2
	15400	LEAR	8	S	0911.0	0912.0	2.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0912.0	0920.0	31.0	960.0			QL=4 ST=2 TYP=8
	245	LEAR	49	GB	0915.0	0920.0	20.0	890.0			QL=4 ST=2 TYP=6
	1415	LEAR	8	S	0917.0	0918.0	2.0	480.0			QL=4 ST=2 TYP=3
	410	LEAR	20	GRF	0918.0	0922.0	22.0	230.0			QL=4 ST=2 TYP=2
	2950	GORK	29	PBI	0920.3	0920.3	42.7	7.5			
	9100	GORK	30	PBI	0920.4	0920.4	89.0	90.0			
	600	GORK	4	S/F	1006.0	1006.7	1.3	13.0			
	9100	GORK	41	F	1009.7	1011.1		110.0			
	9100	GORK	41	F	1009.7	1009.9	1.6	70.0			
	127	TORN	42	SER	1226.0	1237.5	11.5	79000.0	970.0		
	410	SGMR	8	S	1311.0	1311.0	U	52.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1418.2	1418.8	2.5	21.0	10.0		22L
	6700	CUBA	22	GRF	1516.0	1550.0	42.0	23.0	11.0		11L
	9500	CUBA	22	GRF	1526.0	1549.0	32.0	24.0	12.0		
	2800	PENT	41	F	1709.0	1714.0	23.0U	16.0			
	6700	CUBA	21	GRF	1713.0	1731.0	38.0	17.0	8.0		10L
	6700	CUBA	2	S/F	1714.0	1714.4	3.8	12.0	6.0		27L
	6700	CUBA	2	S/F	1727.2	1728.2	2.6	22.0	11.0		41L
	2800	PENT	47	GB	1829.0	1838.0	63.0U	710.0			
	15400	PALE	49	GB	1833.0	1838.0	8.0	5400.0			QL=4 ST=3 TYP=6
	8800	PALE	49	GB	1833.0	1838.0	8.0	3000.0			QL=4 ST=3 TYP=6
	1415	PALE	49	GB	1833.0	1838.0	8.0	650.0			QL=4 ST=3 TYP=6
	245	PALE	49	GB	1833.0	1838.0	8.0	1800.0			QL=4 ST=3 TYP=6
	245	SGMR	49	GB	1833.0	1838.0	8.0	17000.0			QL=4 ST=2 TYP=6
	4995	PALE	49	GB	1833.0	1842.0	10.0	2000.0			QL=4 ST=3 TYP=6
	610	PALE	49	GB	1834.0	1838.0	7.0	1600.0			QL=4 ST=3 TYP=6
	2695	PALE	49	GB	1834.0	1838.0	7.0	750.0			QL=4 ST=3 TYP=6
	410	PALE	49	GB	1835.0	1838.0	6.0	17000.0			QL=4 ST=3 TYP=6
	4995	SGMR	49	GB	1835.0	1842.0	32.0	1800.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1835.0	1838.0	32.0	15000.0			QL=4 ST=2 TYP=6
	8800	SGMR	49	GB	1835.0	1838.0	32.0	3800.0			QL=4 ST=2 TYP=6
	6700	CUBA	47	GB	1835.2	1839.2	20.8	3793.0	1896.0		12L
	9500	CUBA	47	GB	1835.4	1839.2	14.8	2676.0	1338.0		
	1415	SGMR	48	C	1836.0	1903.0	28.0	1200.0			QL=4 ST=2 TYP=8
	15400	SGMR	49	GB	1836.0	1838.0	31.0	4600.0			QL=4 ST=2 TYP=6
	610	SGMR	49	GB	1836.0	1838.0	31.0	1800.0			QL=4 ST=2 TYP=6
	2695	SGMR	48	C	1836.0	1904.0	31.0	1100.0			QL=4 ST=2 TYP=8
	9500	CUBA	30	PBI	1850.2		83.8	307.0	153.0		
	6700	CUBA	30	PBI	1856.0		98.5	87.0	43.0		5L
	610	PALE	49	GB	1902.0	1904.0	2.0	660.0			QL=4 ST=2 TYP=6
	1415	PALE	49	GB	1902.0	1903.0	2.0	1300.0			QL=4 ST=2 TYP=6

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	245	PALE	49	GB	1902.0	1902.0	3.0	1000.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	1902.0	1903.0	2.0	2900.0			QL=4 ST=2 TYP=6
	2695	PALE	49	GB	1903.0	1904.0	1.0	1200.0			QL=4 ST=2 TYP=6
	1415	SGMR	48	C	1927.0	1939.0	20.0	10000.0			QL=4 ST=2 TYP=8
	1415	PALE	8	S	1928.0	1930.0	2.0	250.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	1932.0	1932.0	1.0	1600.0			QL=4 ST=2 TYP=6
	610	SGMR	48	C	1932.0	1941.0	15.0	9600.0			QL=4 ST=2 TYP=8
	410	SGMR	49	GB	1932.0	1941.0	15.0	8600.0			QL=4 ST=2 TYP=6
	1415	PALE	48	C	1935.0	1939.0	10.0	9900.0			QL=4 ST=2 TYP=8
	610	PALE	48	C	1936.0	1941.0	11.0	10000.0			QL=4 ST=2 TYP=8
	2695	PALE	49	GB	1937.0	1941.0	7.0	2300.0			QL=4 ST=2 TYP=6
	2695	SGMR	49	GB	1937.0	1941.0	10.0	1900.0			QL=4 ST=2 TYP=6
	4995	PALE	4	S/F	1938.0	1941.0	7.0	410.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	1938.0	1941.0	7.0	9600.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	1938.0	1939.0	6.0	1300.0			QL=4 ST=2 TYP=6
	4995	SGMR	4	S/F	1938.0	1941.0	9.0	380.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1938.0	1939.0	4.0	1300.0			QL=4 ST=2 TYP=6
	8800	SGMR	4	S/F	1938.0	1941.0	9.0	230.0			QL=4 ST=2 TYP=3
	15400	PALE	4	S/F	1939.0	1941.0	4.0	99.0			QL=4 ST=2 TYP=3
	6700	CUBA	46	C	1939.0D	1941.1	6.8D	251.0	125.0		16L
	9500	CUBA	46	C	1939.0E	1941.2	6.0D	318.0	159.0		
	8800	PALE	8	S	1942.0	1942.0	1.0	140.0			QL=4 ST=2 TYP=3
	2800	PENT	1	S	1956.0	1957.0	3.0	20.0			
26	245	LEAR	43	NS	0113.0	0146.0	57.0	180.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0135.0	0153.0	21.0	110.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0600.0E		300.0D		15.0		
	127	TORN	44	NS	0700.0E		490.0D		100.0		V=1
	410	PALE	43	NS	1708.0	1715.0	45.0	260.0			QL=4 ST=2 TYP=1
	610	PALE	43	NS	1708.0	1728.0	44.0	320.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1708.0	1721.0	62.0	64.0			QL=4 ST=2 TYP=1
	610	SGMR	43	NS	1721.0	1729.0	62.0	340.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1721.0	1726.0	62.0	51.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	1721.0	1737.0	62.0	88.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0111.0	0111.0	2.0	57.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0246.0	0304.3	28.0	75.2			
	2800	HIRA	3	S	0247.0	0254.0	10.0	50.0			0
	245	LEAR	8	S	0249.0	0249.0	1.0	300.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0250.0	0250.0	U	350.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0251.0	0253.0	6.0	40.0			0
	8800	LEAR	4	S/F	0252.0	0254.0	7.0	51.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0252.0	0254.0	4.0	54.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0252.0	0252.0	1.0	34.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0252.0	0252.0	1.0	85.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0252.0	0253.0	4.0	41.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	0252.0	0253.0	4.0	20.0			QL=4 ST=2 TYP=3
	1415	PALE	4	S/F	0252.0	0254.0	3.0	13.0			QL=4 ST=2 TYP=3
	610	PALE	4	S/F	0252.0	0252.0	4.0	78.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0252.0	0254.0	4.0	55.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0253.0	0253.0	1.0	37.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0254.0	0255.0	2.0	880.0			QL=4 ST=2 TYP=6
	200	HIRA	8	S	0255.0	0258.0	3.0	70.0			0
	245	PALE	49	GB	0255.0	0255.0	U	1100.0			QL=4 ST=2 TYP=6
	200	HIRA	4	S/F	0258.0	0301.0	9.0	70.0			0
	410	LEAR	4	S/F	0259.0	0302.0	3.0	42.0			QL=4 ST=2 TYP=3
	500	HIRA	4	S/F	0300.0	0307.0	14.0	30.0			0
	245	LEAR	8	S	0301.0	0301.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0301.0	0301.0	1.0	120.0			QL=4 ST=2 TYP=3
	8800	PALE	4	S/F	0301.0	0302.0	6.0	61.0			QL=4 ST=2 TYP=3
	4995	LEAR	4	S/F	0302.0	0304.0	7.0	100.0			QL=4 ST=2 TYP=3
	4995	PALE	4	S/F	0302.0	0304.0	3.0	57.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0302.0	0304.0	5.0	87.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	0303.0	0304.0	5.0	50.0			0
	2695	LEAR	8	S	0303.0	0304.0	2.0	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	4	S/F	0303.0	0304.0	9.0	99.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0304.0	0304.0	U	34.0			QL=4 ST=2 TYP=3
	1415	LEAR	8	S	0304.0	0304.0	U	31.0			QL=4 ST=2 TYP=3
	200	HIRA	7	C	0442.0	0445.0	3.0	40.0			0
	245	LEAR	8	S	0442.0	0442.0	1.0	140.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
26	500	HIRA	8	S	0445.0	0445.0	1.0	30.0			0
	245	LEAR	8	S	0445.0	0445.0	U	200.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0448.0	0449.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0612.0	0612.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0612.0E	0612.0U	3.0D	110.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0613.0	0613.0	1.0	70.0			0
	410	LEAR	4	S/F	0625.0	0625.0	3.0	290.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0625.0	0625.0	1.0	190.0			QL=4 ST=2 TYP=3
	500	HIRA	8	S	0626.0	0626.0	1.0	30.0			0
	410	SVTO	8	S	0627.0	0628.0	1.0	130.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0631.0	0631.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0631.0	0634.0	6.0	27.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0631.0	0633.0	3.0	71.0			QL=4 ST=2 TYP=3
	600	GORK	22	GRF	0648.6	0652.8	11.4	10.0			
	2950	GORK	23	GRF	0651.0	0656.3	7.0	4.8			
	2950	GORK	1	S	0652.6	0653.2	1.0	4.8			
	410	SVTO	8	S	0729.0	0729.0	U	77.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0738.0	0739.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0753.0	0753.0	1.0	160.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	1023.0		97.0D		35.0		
	245	SVTO	8	S	1120.0	1120.0	U	92.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1138.0	1138.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1348.0	1348.0	U	98.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1456.0	1456.0	1.0	160.0			QL=4 ST=2 TYP=3
	6700	CUBA	21	GRF	1523.0	1656.0	294.0	201.0	100.0		10L
	245	SGMR	8	S	1539.0	1540.0	1.0	65.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1612.0	1612.0	1.0	55.0			QL=4 ST=2 TYP=3
	2800	PENT	47	GB	1630.0	1639.0	33.0	701.0			
	6700	CUBA	47	GB	1635.3	1644.0	20.2	4978.0	2489.0		8L
	4995	SGMR	48	C	1636.0	1643.0	45.0	1900.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	1637.0	1639.0	44.0	2700.0			QL=4 ST=2 TYP=8
	15400	SGMR	49	GB	1637.0	1643.0	41.0	3900.0			QL=4 ST=2 TYP=6
	245	SGMR	48	C	1637.0	1647.0	44.0	3200.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	1637.0	1643.0	44.0	4500.0			QL=4 ST=2 TYP=8
	2695	SGMR	49	GB	1637.0	1639.0	44.0	700.0			QL=4 ST=2 TYP=6
	1415	SGMR	49	GB	1637.0	1639.0	44.0	1100.0			QL=4 ST=2 TYP=6
	410	SGMR	49	GB	1637.0	1643.0	44.0	6300.0			QL=4 ST=2 TYP=6
	9500	CUBA	47	GB	1637.0	1643.8	11.3	2969.0	1484.0		
	9500	CUBA	29	PBI	1648.3		91.7	815.0	407.0		
	2800	PENT	3	S	1709.0	1716.0	12.0	21.0			
	9500	CUBA	1	S	1742.0	1743.2	2.8	23.0	11.0		
	245	PALE	49	GB	2032.0	2033.0	1.0	1000.0			QL=4 ST=2 TYP=6
	245	SGMR	8	S	2032.0	2032.0	1.0	500.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	2322.0	2323.0	3.0	100.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	2323.0	2323.0	1.0	220.0			0
27	127	TORN	44	NS	0700.0E		500.0D		230.0		V=1,DISTURBED
	204	IZMI	43	NS	0844.0		196.0D		25.0		
	410	PALE	43	NS	1742.0	1818.0	55.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2356.0	0041.0	519.0	130.0			QL=4 ST=2 TYP=1
	127	TORN	4	S/F	0655.1	0656.3	1.7	4200.0	850.0		
	245	SVTO	8	S	0828.0	0828.0	1.0	180.0			QL=4 ST=2 TYP=3
	204	IZMI	42	SER	1101.9	1103.0	3.0	528.0			
	245	SGMR	8	S	1614.0	1614.0	U	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1642.0	1643.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	1650.0	1653.0	5.0	66.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1733.0	1733.0	U	150.0			QL=4 ST=2 TYP=3
	6700	CUBA	1	S	1742.0	1743.0	2.8	8.0	4.0		19L
	15400	SGMR	8	S	1742.0	1743.0	2.0	64.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	1743.0	1743.0	U	70.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1818.0	1818.0	U	120.0			QL=4 ST=2 TYP=3
	2800	PENT	29	PBI	2036.0	2047.0	56.0U	14.0			
	200	HIRA	8	S	2331.0	2331.0	1.0	290.0			ML
	200	HIRA	4	S/F	2341.0	2352.0	16.0	190.0			SR
	245	LEAR	8	S	2348.0	2348.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2348.0	2348.0	U	130.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	2349.0	2352.0	6.0	10.6			
	245	LEAR	8	S	2351.0	2351.0	1.0	430.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	2351.0	2352.0	1.0	180.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

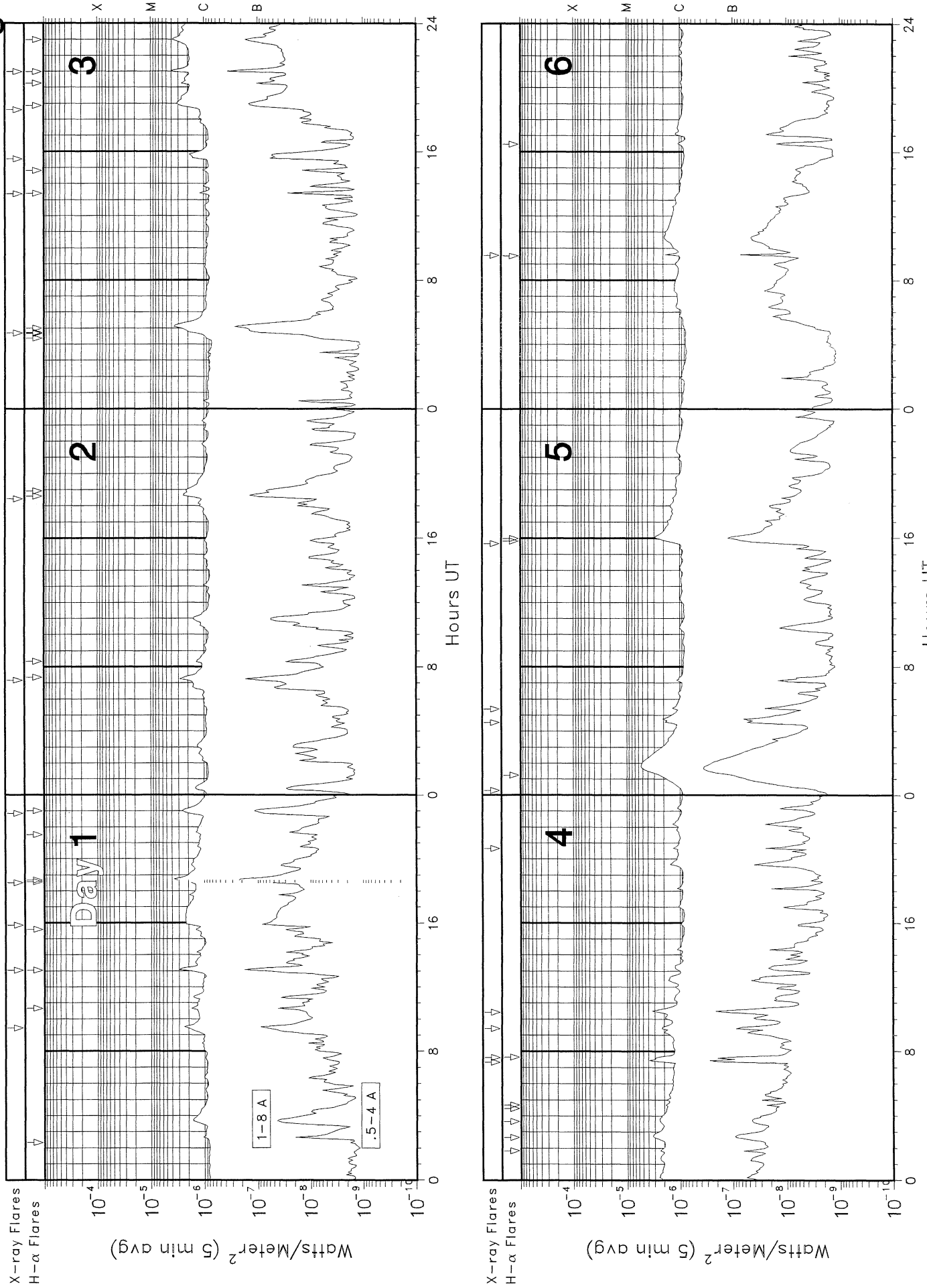
Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	245	PALE	49	GB	2351.0	2351.0	1.0	640.0			QL=4 ST=3 TYP=6
	500	HIRA	8	S	2352.0	2352.0	1.0	50.0			WL
	410	PALE	8	S	2352.0	2352.0	U	110.0			QL=4 ST=3 TYP=3
	245	LEAR	4	S/F	2353.0	2354.0	8.0	82.0			QL=4 ST=3 TYP=3
28	204	IZMI	44	NS	0700.0E		300.0D		27.0		
	127	TORN	44	NS	0700.0E		490.0D		30.0		V=1
	245	SGMR	43	NS	1218.0	1226.0U	20.0	83.0			QL=4 ST=2 TYP=1
	200	HIRA	7	C	0153.0	0155.0	4.0	80.0			WR
	410	LEAR	8	S	0154.0	0155.0	1.0	150.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0245.0	0246.0	1.0	60.0			0
	2840	PEKG	1	S	0458.0	0500.4	5.0	5.8			
	2840	PEKG	1	S	0532.0	0535.2	5.0	7.0			
	9100	GORK	42	SER	0633.3E	0635.1		12.0			
	9100	GORK	42	SER	0633.3E	0637.3		14.0			
	9100	GORK	42	SER	0633.3E	0633.9	4.5D	12.0			
	600	GORK	42	SER	0634.7	0637.0		14.0			
	600	GORK	42	SER	0634.7	0634.8	2.6	4.0			
	9100	GORK	8	S	0644.6	0644.7	0.3	30.0			
	600	GORK	2	S/F	0644.8	0645.0	0.4	4.0			
	15400	SVTO	4	S/F	0655.0	0700.0	6.0	74.0			QL=4 ST=2 TYP=3
	204	IZMI	7	C	0818.1	0818.2	0.2	125.0			
	204	IZMI	41	F	0919.6	0919.7	0.3	56.0			
	204	IZMI	41	F	1033.1	1033.3	0.3	162.0			
	204	IZMI	7	C	1123.7	1123.8	0.6	149.0			
	127	TORN	42	SER	1229.8	1232.6	18.0	130.0	80.0		
29	245	LEAR	43	NS	0243.0	0428.0	137.0	87.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	0405.0	0405.0	33.0	97.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0632.0	0655.0	77.0	200.0			QL=2 ST=2 TYP=1
	245	LEAR	43	NS	0641.0	0654.0	233.0	190.0			QL=4 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		20.0		
	127	TORN	44	NS	0700.0E		490.0D		24.0		V=1,DISTURBED
	410	LEAR	8	S	0137.0	0137.0	1.0	56.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0236.0	0238.0	3.0	57.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0355.0	0357.0	2.0	52.0			QL=4 ST=2 TYP=3
	200	HIRA	8	S	0428.0	0429.0	1.0	240.0			0
	2840	PEKG	45	C	0620.0	0624.7	8.0	12.6			
	2950	GORK	45	C	0621.0	0626.3		16.5			
	2950	GORK	45	C	0621.0	0621.5	7.2	8.7			
	2950	GORK	45	C	0621.0	0624.5		25.0			
	600	GORK	46	C	0621.1	0637.3		7.0			
	600	GORK	46	C	0621.1	0625.4		13.0			
	600	GORK	46	C	0621.1	0628.5		13.0			
	600	GORK	46	C	0621.1	0622.5	16.7	24.0			
	600	GORK	46	C	0621.1	0630.7		9.0			
	900	GORK	46	C	0621.2	0626.3		75.0			
	900	GORK	46	C	0621.2	0621.4	8.2	47.0			
	900	GORK	46	C	0621.2	0622.4		129.0			
	900	GORK	46	C	0621.2	0623.8		138.0			
	245	LEAR	8	S	0623.0	0624.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0623.0	0624.0	1.0	120.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0623.0	0623.0	4.0	76.0			QL=4 ST=2 TYP=3
	9100	GORK	4	S/F	0623.2	0624.2	1.8	50.0			
	200	HIRA	8	S	0624.0	0624.0	1.0	80.0			0
	245	LEAR	48	C	0633.0	0635.0	2.0	130.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	0635.0	0635.0	U	100.0			QL=4 ST=3 TYP=3
	245	LEAR	8	S	0637.0	0637.0	U	100.0			QL=4 ST=2 TYP=3
	204	IZMI	25	R	0700.0E		34.0D		45.0		
	600	GORK	8	S	0747.9	0748.0	0.2	9.0			
	204	IZMI	42	SER	0810.3	0810.9	0.9	60.0			
	3000	IZMI	22	GRF	0811.1	0833.7	31.3	10.0	5.0		
	245	SVTO	8	S	0837.0	0837.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	0841.0	0842.0	2.0	1500.0			QL=4 ST=2 TYP=6
	245	SVTO	8	S	0845.0	0847.0	2.0	68.0			QL=4 ST=3 TYP=3
	410	SVTO	8	S	0845.0	0846.0	1.0	170.0			QL=4 ST=3 TYP=3
	204	IZMI	42	SER	0850.4	0851.5	1.7	68.0			
	245	SVTO	4	S/F	0853.0	0854.0	7.0	88.0			QL=4 ST=3 TYP=3
	610	SVTO	8	S	0856.0	0856.0	U	42.0			QL=4 ST=3 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

NOVEMBER 2000

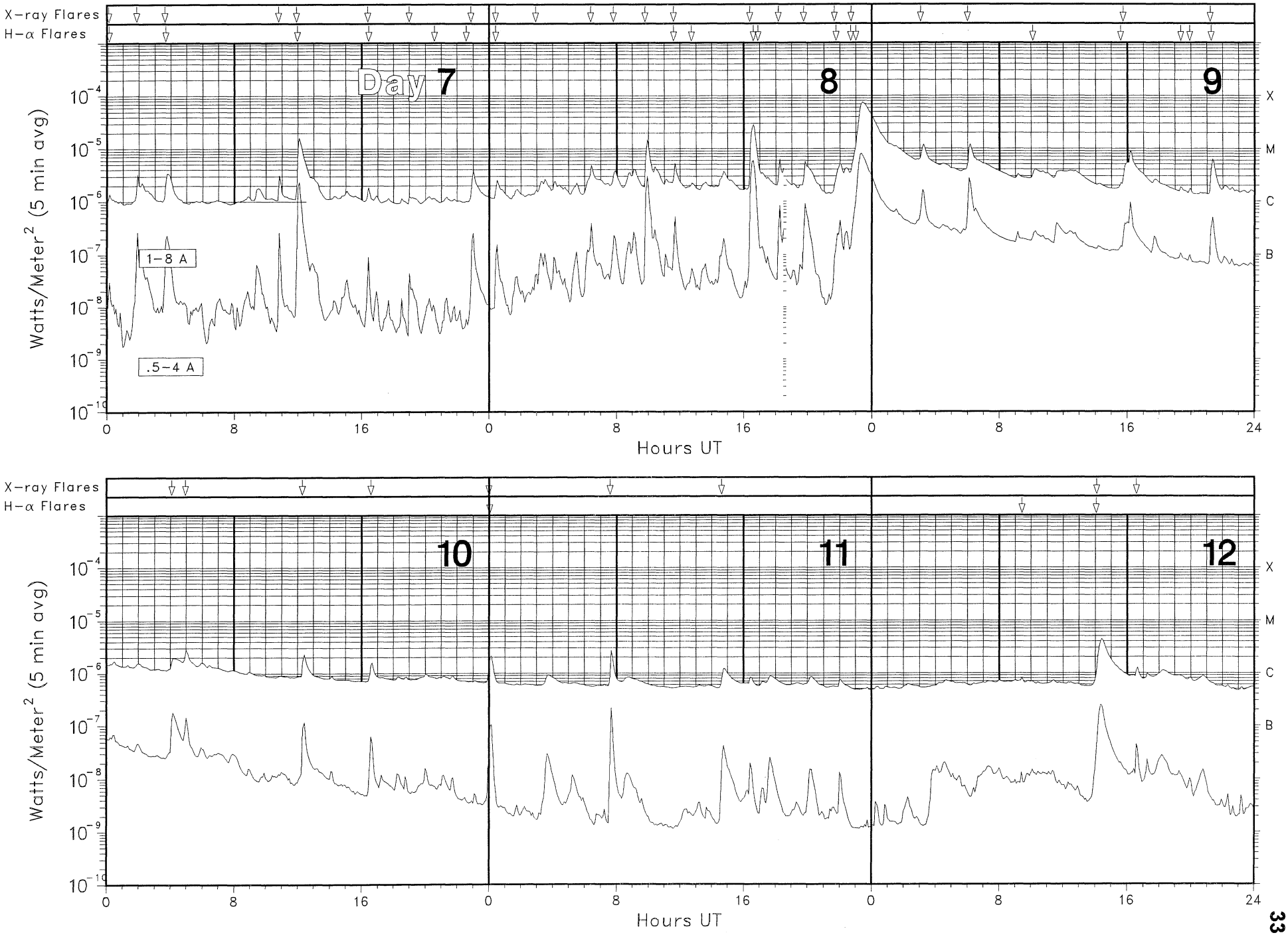
Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	204	IZMI	42	SER	0943.3	0943.6	1.2	113.0			
	2695	LEAR	8	S	0952.0	0952.0	U	78.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0955.0	0956.0	1.0	48.0			QL=4 ST=2 TYP=3
	2950	GORK	45	C	0957.0	0958.1	2.7	7.1			
	9100	GORK	4	S/F	0957.2	0957.8	1.3	18.5			
	600	GORK	1	S	0957.7	0958.0	0.6	2.0			
	204	IZMI	45	C	1009.0	1009.1	0.3	277.0			
	204	IZMI	41	F	1014.2	1014.4	0.3	100.0			
	204	IZMI	42	SER	1039.7	1040.7	1.7	64.0			
	245	SVTO	4	S/F	1123.0	1125.0	4.0	170.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1149.0	1152.0	3.0	9200.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1153.0	1153.0	U	410.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1357.0	1357.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1357.0	1358.0	2.0	490.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1401.0	1401.0	U	400.0			QL=4 ST=2 TYP=3
	2800	PENT	4	S/F	1905.0	1910.0	12.0	33.0			
	6700	CUBA	2	S/F	1908.2	1909.4	4.0	45.0	22.0		10L
	610	SGMR	4	S/F	1909.0	1912.0	4.0	350.0			QL=4 ST=2 TYP=3
	410	SGMR	4	S/F	1909.0	1910.0	4.0	320.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1909.0	1912.0	8.0	100.0			QL=4 ST=2 TYP=3
	9500	CUBA	2	S/F	1909.6	1910.4	3.4	22.0	11.0		
	610	PALE	8	S	1910.0	1912.0	2.0	400.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1910.0	1910.0	2.0	380.0			QL=4 ST=2 TYP=3
	2695	LEAR	4	S/F	2200.0	2201.0	8.0	52.0			QL=4 ST=2 TYP=3
30	410	LEAR	43	NS	0243.0	0244.0	433.0	250.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0243.0	0505.0	433.0	400.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0615.0	0631.0U	300.0	640.0			QL=2 ST=2 TYP=1
	410	SVTO	43	NS	0646.0	0918.0U	219.0	150.0			QL=2 ST=2 TYP=1
	204	IZMI	44	NS	0700.0E		300.0D		60.0		
	127	TORN	44	NS	0700.0E		490.0D		45.0		V=2
	245	SGMR	43	NS	1406.0	1428.0	104.0	73.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0231.0	0231.0	U	110.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0242.0	0244.8	6.0	27.5			
	500	HIRA	8	S	0243.0	0243.0	1.0	200.0			0
	200	HIRA	8	S	0244.0	0244.0	1.0	180.0			0
	2840	PEKG	5	S	0520.0	0522.3	5.0	10.3			
	200	HIRA	8	S	0521.0	0522.0	1.0	230.0			MR
	245	LEAR	49	GB	0521.0	0522.0	1.0	730.0			QL=4 ST=3 TYP=6
	610	LEAR	8	S	0657.0	0658.0	1.0	24.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0713.0	0714.0	2.0				
	3000	IZMI	22	GRF	0858.4	0917.4	26.9	22.0			
	2950	GORK	22	GRF	0907.0	0917.7		14.1			
	2950	GORK	22	GRF	0907.0	0912.7	17.0	11.1			
	9100	GORK	21	GRF	0907.6	0917.1	15.4	11.7			
	1415	SVTO	4	S/F	0909.0	0912.0	4.0	49.0			QL=4 ST=2 TYP=3
	600	GORK	45	C	0911.5	0912.4	3.2	4.0			
	600	GORK	45	C	0911.5	0913.5		3.0			
	900	GORK	2	S/F	0911.8	0912.4	1.5	12.0			
	15400	SVTO	8	S	0912.0	0912.0	1.0	29.0			QL=4 ST=2 TYP=3
	9100	GORK	45	C	0912.2	0912.4	1.2	13.4			
	9100	GORK	45	C	0912.2	0912.9		10.1			
	410	SGMR	4	S/F	1242.0	1244.0	3.0	54.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1352.0	1354.0	3.0	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1451.0	1451.0	U	100.0			QL=4 ST=2 TYP=3
	2800	PENT	3	S	1640.0	1649.0	20.0	14.0			
	8800	SGMR	4	S/F	1648.0	1649.0	3.0	62.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1649.0	1649.0	2.0	29.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1841.0	1843.0	4.0	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1921.0	1922.0	1.0	55.0			QL=4 ST=2 TYP=3
	2800	PENT	4	S/F	2029.0	2036.0	20.0	31.0			
	6700	CUBA	46	C	2032.0	2035.2	11.5	67.0	33.0		24L
	9500	CUBA	2	S/F	2033.8	2035.0	4.2	32.0	16.0		
	200	HIRA	47	GB	2213.0	2214.0	1.0	790.0			0
	245	PALE	8	S	2213.0	2213.0	1.0	250.0			QL=4 ST=2 TYP=3

GOES X-RAY DETECTOR
November 2000



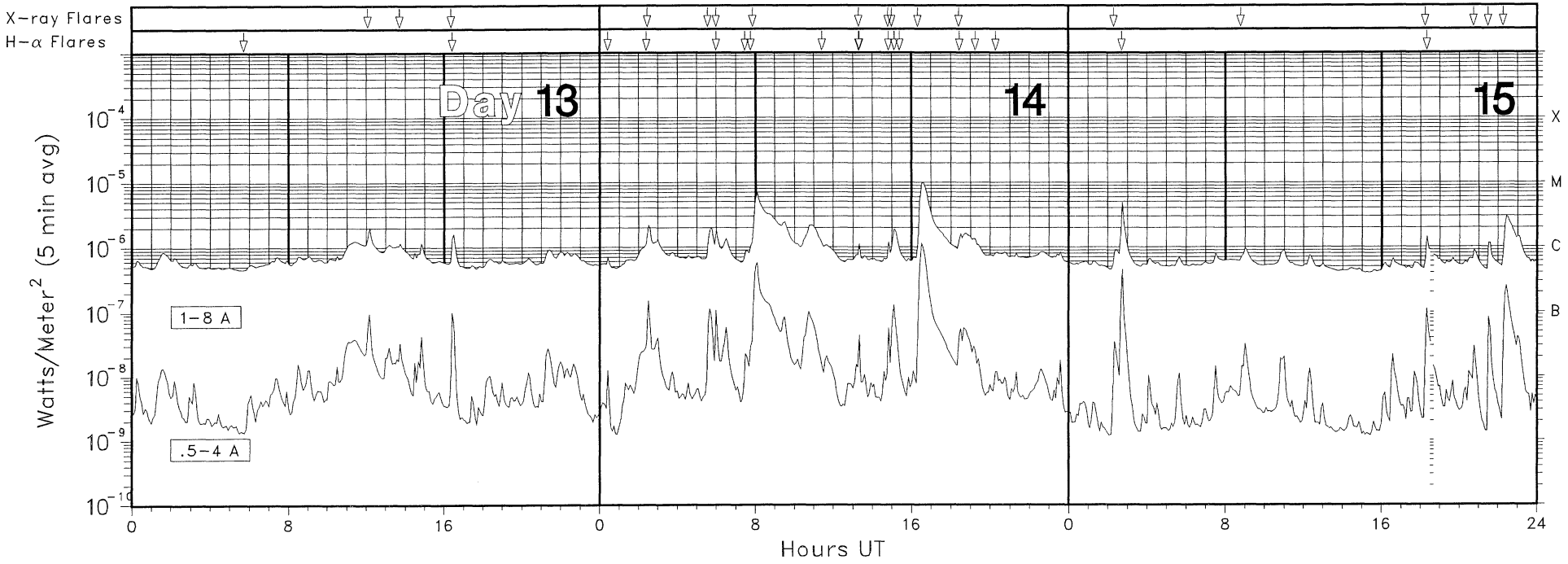
GOES X-RAY DETECTOR

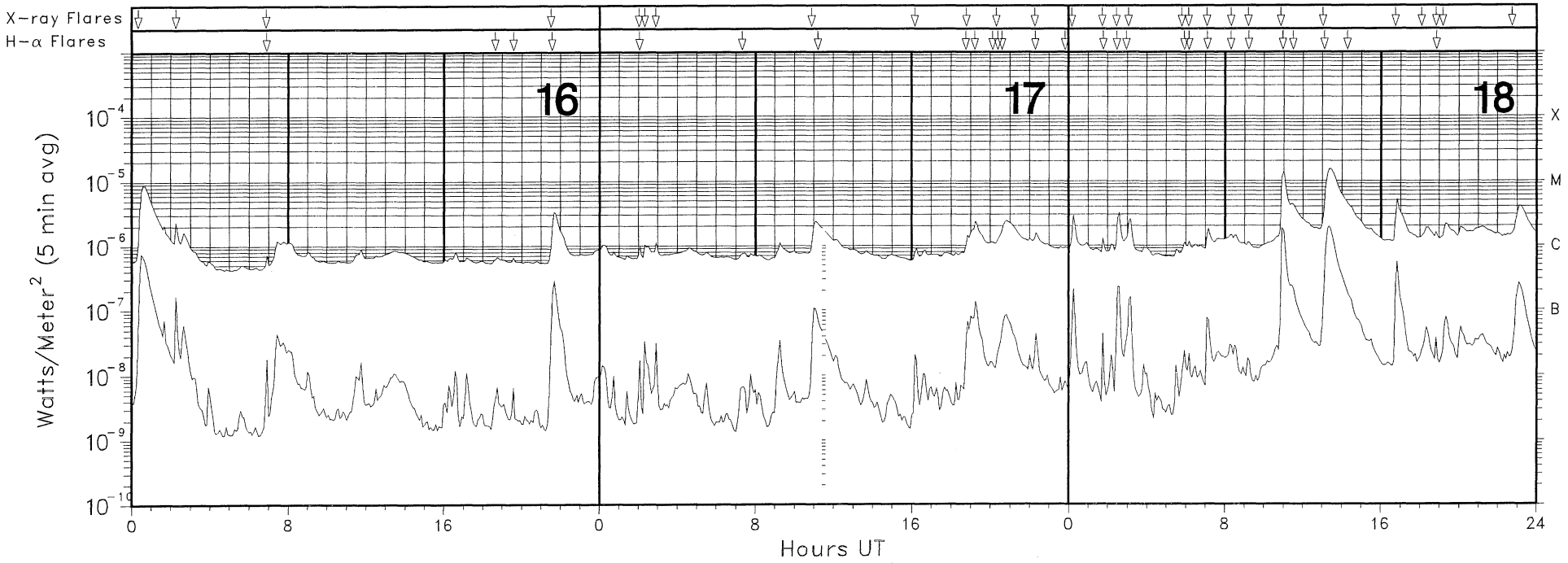
November 2000



GOES X-RAY DETECTOR

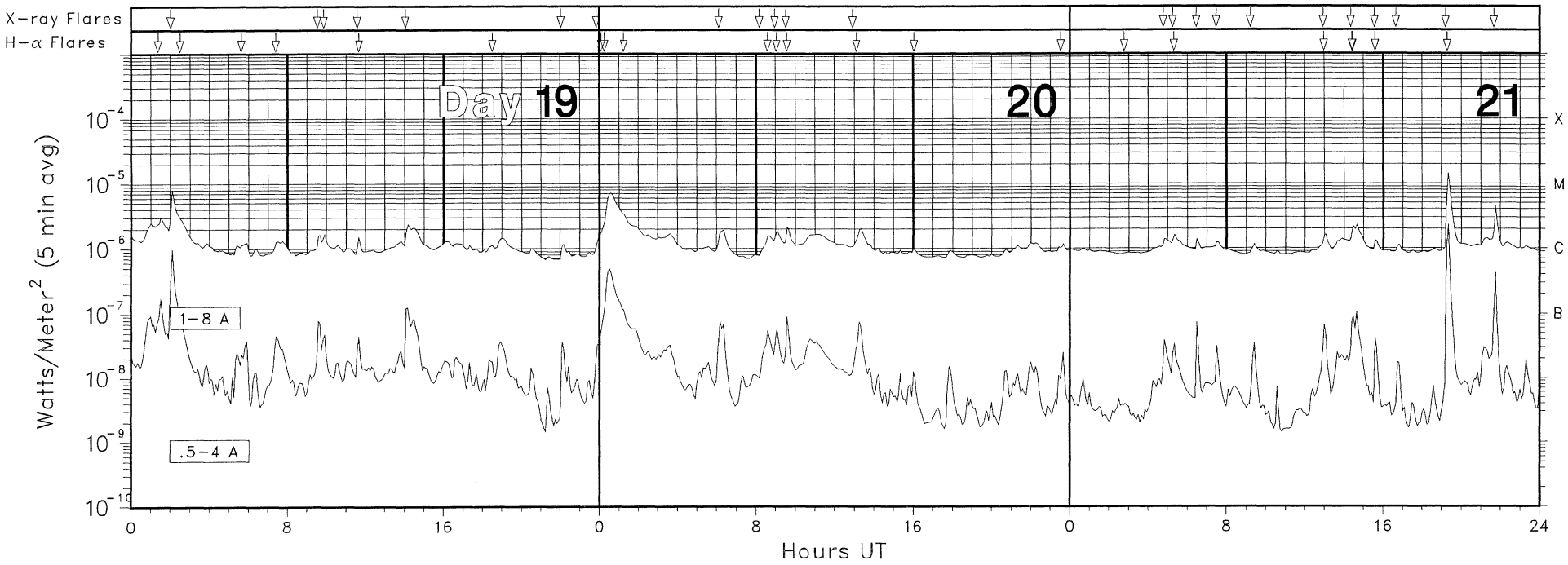
November 2000

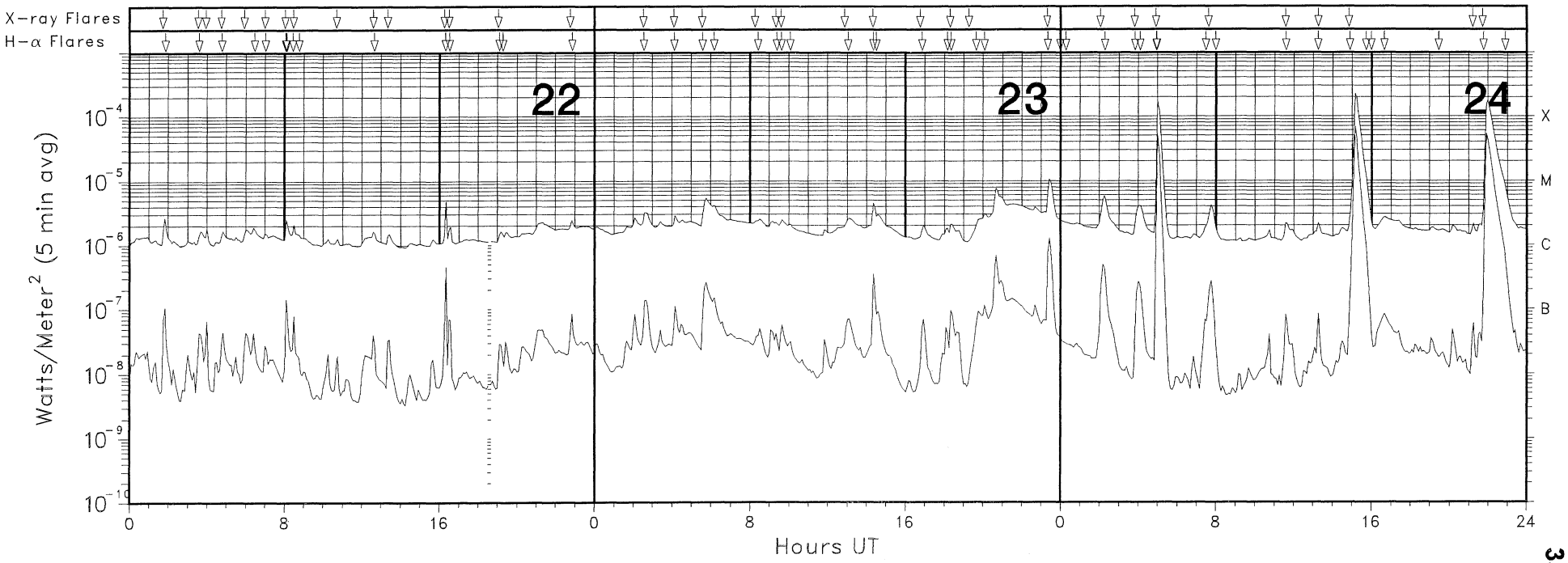




GOES X-RAY DETECTOR

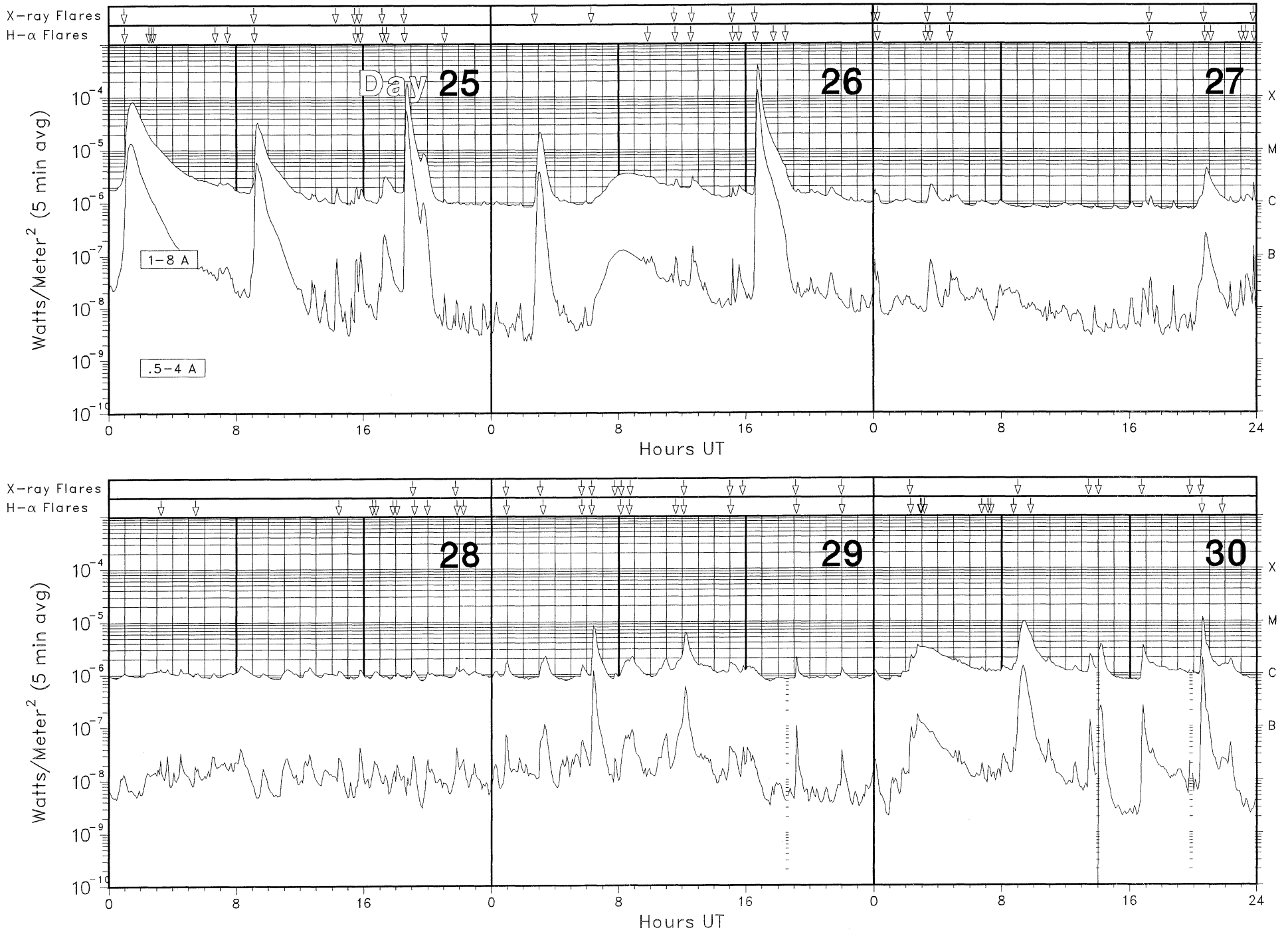
November 2000





GOES X-RAY DETECTOR

November 2000



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

Preliminary Listing

November 2000

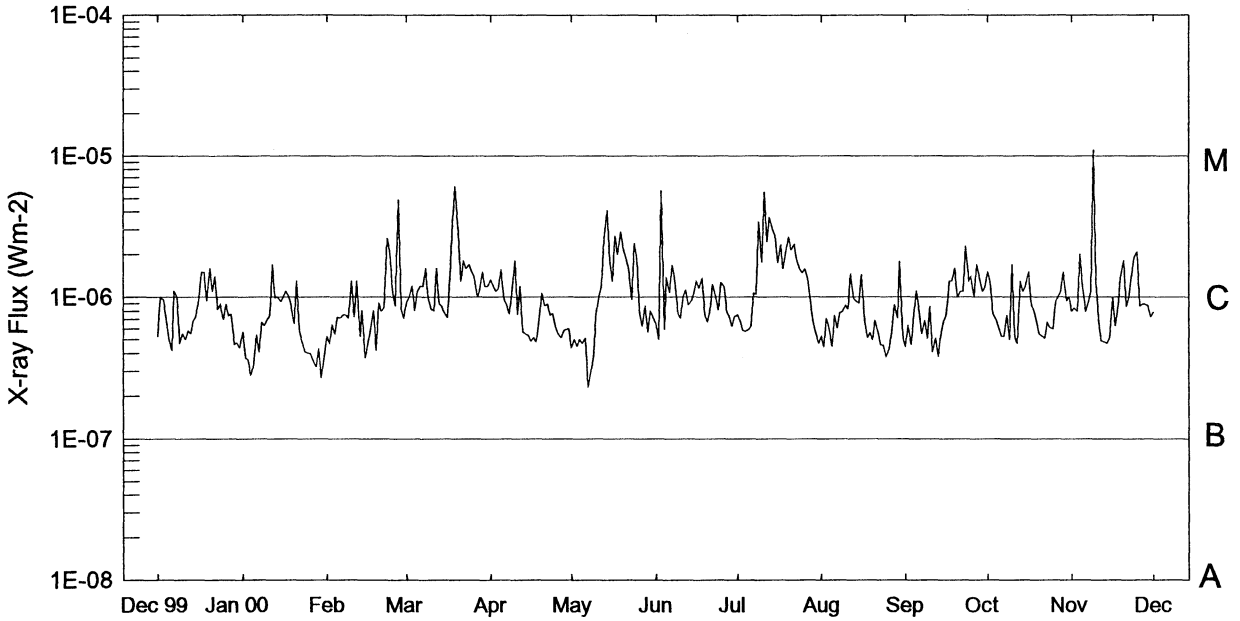
Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region	Flux
01	0926	0931	0935				C2.5		1.2E-03
01	1302	1308	1313	N17	E44	SF	C3.2		1.8E-03
01	1551	1610	1721				C2.2		1.1E-02
01	1831	1845	1853	N20	E42	SF	C3.8	9218	3.7E-03
01	2250	2301	2312	N19	E39	SF	C2.5	9218	3.0E-03
02	0711	0716	0726	N20	E34	SF	C2.9	9218	2.2E-03
02	1826	1842	1909	N13	E14	SF	C2.5	9212	5.0E-03
03	0441	0508	0520	N07	W02	SF	C3.8	9212	6.0E-03
03	1322	1326	1330	S28	W25	SF	C1.2	9210	5.3E-04
03	1532	1552	1559				C1.9		2.6E-03
03	1835	1902	2006	N02	W02	SF	C3.2	9213	1.2E-02
03	2058	2103	2107	S20	W42	SF	C5.3	9209	2.1E-03
04	0719	0726	0734				C3.9		2.7E-03
04	0736	0739	0741	N10	W14	SF	C5.0	9212	1.1E-03
04	0925	0929	0931				C2.9		8.5E-04
04	1026	1032	1036				C3.4		1.9E-03
04	2039	2043	2045				C1.6		4.8E-04
05	0017	0149	0254	N14	W06	1F	C5.4	9218	2.9E-02
05	0432	0436	0440				C1.9		8.4E-04
05	0523	0526	0529				C1.5		4.7E-04
05	1539	1603	1629				C2.9	9209	6.5E-03
06	0932	0936	0939	S28	W59	SF	C2.1	9210	6.8E-04
07	0007	0011	0015	S28	W67	SF	C1.5	9210	6.6E-04
07	0151	0156	0200				C3.6		1.4E-03
07	0337	0347	0406	N01	W40	SF	C3.4	9213	5.0E-03
07	1048	1053	1057				C4.2		1.5E-03
07	1155	1207	1220	N06	W54	1F	M1.6	9213	1.6E-02
07	1624	1628	1631	N14	W78	SF	C2.2		7.6E-04
07	1859	1903	1906				C1.5		5.3E-04
07	2253	2301	2308	N12	W80	SF	C4.1		2.7E-03
08	0025	0030	0040	N13	W81	SF	C2.6		1.9E-03
08	0256	0259	0305				C1.8		9.0E-04
08	0623	0628	0631				C5.2		2.2E-03
08	0749	0755	0802				C4.0		2.9E-03
08	0948	0958	1005				M1.5		1.1E-02
08	1136	1142	1146	N13	W89	SF	C5.7		2.6E-03
08	1622	1636	1646	N11	W79	SF	M2.9		2.9E-02
08	1810	1816	1820				C6.8		3.0E-03
08	1945	1953	2012				C6.1		7.2E-03
08	2140	2204	2211	N05	W75	SF	C6.2	9213	7.4E-03
08	2242	2328	0005				M7.4	9213	2.1E-01
09	0303	0314	0339				M1.2		1.9E-02
09	0601	0610	0621				M1.2		1.2E-02
09	1545	1613	1620	S11	E10	SF	M1.0	9221	1.2E-02
09	2113	2122	2132	S19	W43	1F	C6.4	9125	5.4E-03
10	0405	0415	0445				C2.0		4.6E-03
10	0456	0501	0509				C2.8		2.0E-03
10	1218	1225	1234				C2.4		1.8E-03
10	1634	1639	1645				C1.7		9.9E-04
10	2359	0012	0017	N19	W84	SF	C2.3	9218	1.9E-03
11	0736	0742	0749				C2.9	9218	1.5E-03
11	1436	1448	1506				C1.2		1.8E-03
12	1405	1426	1445	S14	E04	1F	C4.4	9227	7.7E-03
12	1635	1640	1644				C1.4		6.6E-04
13	1205	1211	1216				C2.2		1.2E-03
13	1343	1346	1348				C1.4		3.4E-04
13	1622	1630	1636	S11	W15	SF	C1.7	9227	1.1E-03
14	0228	0233	0238				C2.5		1.2E-03
14	0534	0545	0553				C2.0		1.9E-03
14	0559	0602	0606	S23	E65	SF	C1.9	9231	7.2E-04
14	0752	0806	0823	S26	E65	2N	C7.1	9231	8.8E-03
14	1318	1321	1323	S25	E60	SF	C1.4	9231	3.3E-04
14	1448	1452	1455	S25	E60	SF	C1.4	9231	4.5E-04
14	1500	1508	1518	S26	E60	SF	C2.0	9231	1.7E-03
14	1619	1634	1653				M1.0		1.4E-02
14	1825	1830	1836	S25	E57	SF	C1.7	9231	9.5E-04
15	0218	0246	0250	S15	W48	1B	C5.7	9223	3.2E-03
15	0848	0851	0853				B9.1		2.2E-04
15	1815	1822	1825	S26	E42	SF	C1.7	9231	6.5E-04
15	2044	2047	2052				B9.9		4.2E-04
15	2129	2134	2137				C1.8		5.9E-04
15	2215	2229	2250				C3.0		4.6E-03
16	0020	0040	0102				C8.9	9231	1.6E-02
16	0215	0219	0221				C3.5		8.9E-04
16	0652	0655	0658	S25	E39	SF	B9.1	9231	2.5E-04
16	2130	2144	2157	N12	E59	SF	C3.5	9235	4.0E-03
17	0202	0206	0209	N14	W33	SF	C1.1		3.8E-04
17	0219	0223	0225				C1.3		3.7E-04
17	0253	0256	0300				C1.1		4.5E-04
17	1054	1107	1138	S25	E14	SF	C2.3	9231	5.1E-03
17	1610	1614	1619				B9.9		4.7E-04
17	1848	1917	1929	N09	E52	SF	C2.3	9235	4.2E-03
17	2019	2051	2121				C2.4	9231	7.0E-03
17	2216	2223	2225	N12	E49	SF	C1.6	9235	7.7E-04
18	0011	0018	0021	S12	W73	1F	C3.7	9227	1.5E-03
18	0143	0147	0150	N13	E41	SF	C1.5	9235	4.9E-04
18	0226	0234	0240	S14	W76	1F	C3.8	9227	2.1E-03
18	0303	0310	0313	N13	E41	SF	C3.2	9235	1.5E-03
18	0547	0558	0603	S24	E10	SF	C1.2	9231	9.3E-04
18	0608	0613	0614	S23	E03	SF	C1.2	9231	4.0E-04
18	0705	0709	0714	N13	E39	SF	C2.1	9235	9.1E-04
18	0818	0819	0821	S21	E06	SF	C1.6	9231	2.8E-04
18	0912	0914	0916	S22	E00	SF	C1.2	9231	2.8E-04
18	1051	1100	1109	S25	E08	SF	M1.5	9231	1.1E-02
18	1302	1325	1350	N11	E37	1F	M1.5	9235	3.1E-02
18	1645	1650	1657				C5.9		2.9E-03
18	1805	1824	1835				C1.9		3.0E-03
18	1850	1852	1854	S22	W04	SF	C1.7	9231	3.9E-04
18	1911	1925	1933				C2.3		2.5E-03
18	2244	2309	2331				C4.1		8.5E-03
19	0201	0207	0213				C9.1		4.5E-03
19	0933	0941	0946				C1.7		1.2E-03
19	0951	0957	1001				C1.7		9.4E-04
19	1135	1141	1146	N20	W25	1N	C1.5	9234	8.6E-04
19	1403	1409	1444				C2.4		5.0E-03
19	2203	2208	2217				C1.2		9.0E-04
19	2352	0036	0103	S20	W24	SF	C7.2	9231	1.8E-02
20	0607	0621	0628				C1.9		2.2E-03
20	0812	0839	0856				C1.6		3.3E-03
20	0858	0906	0912	S24	W16	SF	C1.9	9231	1.4E-03
20	0932	0938	0944	S26	W13	SN	C2.2	9231	1.4E-03
20	1255	1320	1333	S24	W18	SF	C2.1	9231	3.5E-03

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

November 2000

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp	Xray	NOAA/ USAF Region	Flux
21	0447	0454	0507					C1.4		1.6E-03
21	0515	0521	0527	S24	W28	SF		C1.6	9231	1.0E-03
21	0628	0632	0636					C1.4		6.2E-04
21	0728	0733	0738					C1.3		7.3E-04
21	0913	0925	0932					C1.1		1.1E-03
21	1256	1304	1309	N15	W67	SF		C1.7	9237	1.2E-03
21	1422	1442	1447	N13	W69	SF		C2.4	9237	3.0E-03
21	1534	1538	1544	N13	W70	SF		C1.4	9237	7.8E-04
21	1639	1648	1655					C1.1		9.8E-04
21	1913	1921	1927	N15	W71	SN		M1.6	9237	7.9E-03
21	2140	2147	2150					C5.4		2.0E-03
22	0144	0151	0156	S19	E49	SF		C2.9		1.6E-03
22	0332	0341	0353	N09	W63	SF		C1.6	9237	1.9E-03
22	0357	0401	0404					C2.0	9237	7.2E-04
22	0444	0451	0459	N18	E25	SF		C1.7	9236	1.4E-03
22	0555	0628	0633	N17	E23	SF		C2.1	9236	3.9E-03
22	0700	0704	0707	N18	E21	SF		C1.7	9236	6.6E-04
22	0803	0808	0813	N20	E27	1F		C2.7	9236	1.3E-03
22	0828	0832	0834	N11	E80	SF		C2.4	9240	7.3E-04
22	1042	1045	1047					C1.5		4.0E-04
22	1235	1238	1242	N17	E18	SF		C1.9	9236	7.1E-04
22	1320	1325	1328					C1.6		7.2E-04
22	1616	1621	1623	N16	E17	1N		C7.0	9236	1.6E-03
22	1630	1635	1637	N17	E16	SF		C2.6	9236	8.7E-04
22	1903	1910	1920	S24	W44	SF		C1.6	9231	1.5E-03
22	2246	2252	2256	S24	W46	SF		C2.5	9231	1.3E-03
23	0233	0243	0251	S25	W47	SF		C3.3	9231	3.3E-03
23	0407	0410	0418	S25	W49	SF		C2.9	9231	1.7E-03
23	0534	0547	0617	S26	W40	1F		C5.4	9238	1.1E-02
23	0816	0831	0839	S25	W51	SF		C2.5	9231	3.3E-03
23	0921	0923	0926	S25	W50	SF		C2.4	9231	6.9E-04
23	0936	0940	0947	S24	W56	SF		C2.5	9231	1.6E-03
23	1252	1308	1324	S22	W59	SF		C2.6	9231	4.6E-03
23	1419	1424	1426	S24	W55	1N		C7.5	9231	1.9E-03
23	1646	1657	1706	N22	E04	SF		C2.0	9236	2.1E-03
23	1819	1824	1830	N22	E00	SF		C2.3	9236	1.4E-03
23	1917	2043	2109					C7.9	9239	2.3E-02
23	2318	2328	2337	N22	W03	1N		M1.0	9236	9.5E-03
24	0202	0216	0225	N23	W04	SF		C5.9	9236	6.0E-03
24	0349	0409	0419	N23	W05	SF		C4.1	9236	6.1E-03
24	0455	0502	0508					X2.0	9236	8.3E-02
24	0736	0747	0756	N21	W08	SF		C4.2	9236	4.2E-03
24	1134	1138	1144	N22	W04	SF		C2.4	9236	1.3E-03
24	1315	1319	1321	S24	W69	SF		C2.6	9231	8.1E-04
24	1451	1513	1521	N22	W07	2B		X2.3	9236	1.6E-01
24	2113	2116	2118					C2.4		6.3E-04
24	2143	2159	2212	N21	W14	2N		X1.8	9236	1.6E-01
25	0059	0131	0201	N07	E50	2N		M8.2	9240	2.1E-01
25	0906	0920	0940	N18	W24	2N		M3.5	9236	4.5E-02
25	1416	1420	1425					C2.1		9.5E-04
25	1529	1535	1537	N24	W21	SF		C3.3	9236	9.8E-04
25	1547	1556	1600	N23	W21	SF		C1.9	9236	1.3E-03
25	1712	1728	1745	N22	W25	SF		C3.2	9236	5.4E-03
25	1833	1844	1855	N20	W23	2B		X1.9	9236	1.5E-01
26	0247	0308	0320	N19	W30	1F		M2.2	9236	2.6E-02
26	0619	0846	1030					C3.6		4.1E-02
26	1131	1138	1145	N21	W33	SF		C2.8	9236	2.1E-03
26	1237	1241	1244	N20	W33	SF		C3.4	9236	1.2E-03
26	1508	1512	1515	N22	W34	SF		C2.2	9236	7.5E-04
26	1634	1648	1656	N18	W38	2B		X4.0	9236	2.8E-01
27	0003	0007	0011					C2.0		7.6E-04
27	0016	0019	0021	N20	W43	1F		C1.9	9236	4.7E-04
27	0325	0338	0354	N20	E39	SF		C2.2	9242	3.0E-03
27	0449	0452	0456					C1.4		5.4E-04
27	1715	1720	1725	N15	W29	SF		C1.3	9244	7.3E-04
27	2041	2051	2103	N20	E27	SF		C4.4	9242	4.7E-03
27	2349	2352	2354	N19	E27	SN		C4.0	9242	6.7E-04
28	1904	1910	1915	N19	E21	SF		C1.3	9242	7.7E-04
28	2145	2151	2224	N19	E14	SF		C1.4	9242	2.9E-03
29	0055	0059	0105	N20	E11	SF		C2.0	9242	1.0E-03
29	0305	0325	0336	S13	E44	SF		C2.2	9246	3.4E-03
29	0540	0545	0555	S13	E42	SF		C1.5	9246	1.2E-03
29	0619	0629	0638	S13	E43	SF		C9.1	9246	7.0E-03
29	0745	0749	0754					C1.1		5.7E-04
29	0810	0826	0830	N22	E09	SF		C1.8	9242	1.7E-03
29	0843	0853	0859	S13	E41	SF		C2.2	9246	2.0E-03
29	1205	1212	1223	S12	E39	SF		C6.4	9246	5.8E-03
29	1459	1505	1525	S12	E37	SF		C1.7	9246	2.4E-03
29	1547	1551	1554					C1.5		5.9E-04
29	1907	1911	1916	S13	E39	SF		C2.3	9246	9.2E-04
29	2159	2203	2206	S12	E34	SF		C1.5	9246	5.5E-04
30	0215	0248	0409					C3.6	9247	1.9E-02
30	0900	0925	0944					M1.0		2.0E-02
30	1326	1333	1342					C2.4		1.9E-03
30	1402	1414	1422					C3.7		3.6E-03
30	1644	1652	1700					C3.7		2.5E-03
30	1946	1950	1955					C1.4		6.8E-04
30	2027	2038	2044	S14	E23	SF		M1.3	9246	7.4E-03

Preliminary GOES Satellite Daily X-Ray Background
Dec 1999 - Nov 2000



Day	Dec 99	Jan 00	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	B5.3	B5.7	B5.2	B9.2	C1.3	B4.4	B6.4	B7.4	B5.2	B4.5	C1.5	B8.0
2	C1.0	B3.7	B4.7	B9.9	C1.2	B5.0	B5.0	B6.7	B4.4	B6.3	C1.3	B8.4
3	B9.6	B3.6	B6.4	C1.2	C1.0	B4.5	C5.6	B5.7	B7.0	B4.6	B7.7	B8.0
4	B7.1	B2.8	B5.5	B8.1	C1.1	B5.0	B5.9	B5.7	B6.0	B7.5	B7.0	C2.0
5	B5.1	B3.2	B7.2	C1.1	C1.5	B4.7	C1 3	B5.9	B4.4	C1.1	B6.1	C1.2
6	B4.2	B5.4	B7.1	C1.2	B9.6	B5.1	C1.0	B6.2	B7.4	B8.2	B5.3	B8.0
7	C1.1	B4.1	B7.5	C1.2	B8.7	B2.3	C1.6	C1.0	B6.0	B5.5	B5.3	B8.9
8	C1.0	B6.6	B7.5	C1.6	B7.6	B2.9	C1.3	C1.0	B7.7	B6.8	B7.4	C1.1
9	B4.7	B6.3	B7.1	B9.7	C1.0	B3.9	B7.7	C3.3	B7.9	B5.1	B5.0	M1.1
10	B5.5	B6.8	C1.3	B8.2	C1.8	B7.4	B7.1	C1.7	B8.7	B8.6	C1.7	C1.3
11	B5.0	B7.4	B7.3	B8.1	B7.6	C1.0	C1.0	C5.5	B8.2	B4.1	B5.3	B6.1
12	B5.8	C1.7	C1.3	C1.6	C1.1	C1.2	C1.1	C2.4	C1.4	B5.1	B4.7	B4.9
13	B5.5	B9.9	B5.3	B8.9	B5.6	C2.6	B8.8	C3.6	B9.7	B3.8	C1.3	B4.8
14	B6.8	C1.0	B8.1	B8.7	B5.4	C4.1	B9.4	C2.9	B9.3	B5.5	C1.1	B4.7
15	B7.2	B9.3	B3.7	B7.7	B5.3	C1.8	C1.0	C2.6	B9.0	B6.7	C1.2	B5.1
16	C1.0	C1.0	B4.6	B7.2	B4.8	C1.3	C1.2	C1.7	C1.4	B7.4	C1.5	B9.9
17	C1.5	C1.1	B5.9	C1.4	B5.1	C2.7	C1.1	C2.3	B6.7	C1.3	B8.8	B6.3
18	C1.5	C1.0	B8.1	C3.4	B4.7	C2.0	C1.3	C1.5	B5.1	C1.3	B8.2	B8.3
19	B9.4	B8.8	B4.2	C6.1	B7.2	C2.9	B7.4	C2.1	B5.5	C1.6	B6.8	C1.4
20	C1.6	B6.5	B9.0	C2.9	C1.0	C2.2	B6.7	C2.6	B5.0	C1.0	B5.5	C1.8
21	C1.1	C1.3	B8.0	C1.3	B8.7	C1.9	B7.9	C2.1	B6.8	C1.1	B5.3	B8.7
22	C1.4	B5.8	B8.4	C1.8	B8.9	C1.6	C1.2	C2.3	B5.5	C1.1	B5.1	C1.0
23	B8.2	B4.7	C2.6	C1.6	B7.4	B9.6	B9.9	C1.8	B4.5	C2.3	B6.6	C1.4
24	B8.9	B4.1	C2.1	C1.7	B7.6	C2.4	B8.1	C1.5	B4.5	C1.3	B6.1	C1.9
25	B7.0	B4.0	C1.1	C1.5	B6.2	C1.9	C1.2	C1.4	B3.8	C1.4	B6.0	C2.1
26	B8.9	B4.0	B8.7	C1.4	B5.5	B7.9	C1.1	C1.5	B4.3	C1.0	B9.4	B8.7
27	B7.4	B3.5	C4.9	C1.0	B5.1	B6.2	B7.9	C1.3	B5.8	C1.7	C1.0	B8.9
28	B7.6	B3.2	B8.4	C1.1	B5.7	B8.7	B7.3	B9.2	B8.8	C1.4	C1.1	B8.9
29	B4.6	B4.3		C1.5	B5.8	B5.7	B6.2	B6.6	B7.1	C1.1	C1.5	B8.7
30	B4.7	B2.7		C1.2	B6.0	B8.0	B8.0	B5.5	C1.7	C1.2	B9.4	B7.3
31	B4.4	B3.6		C1.2		B7.3		B4.6	B5.2		C1.0	

ACTIVE PROMINENCES AND FILAMENTS

NOVEMBER 2000

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
02	DSF	0943U	2228U	N28	W65	10	28.4		25	0	0	E	LEAR	9206	
02	EPL	1608E	1645D	N26	W90	10	26.8	3		3	4	E	HOLL		
02	EPL	1714E	1744D	N26	W90	10	26.8	3		3	4	E	RAMY		
02	DSF	2050U	1155U	N45	E35	11	5.8		04	0	0	E	RAMY		
03	DSF	2111U	1147U	N40	W20	11	2.2		11	0	0	E	RAMY		
08	DSF	2058U	1400U	N21	W15	11	7.7		03	0	0	E	RAMY		
09	DSF	1521	1543	S13	E08	11	10.2	2	08	0	0	E	RAMY	9221	Flare Associated
16	DSF	1447U	0641U	S46	W53	11	12.2	2	32	0	0	E	SVTO		
17	DSF	0839	1106	S25	E15	11	18.5	3	08	0	0	E	SVTO	9231	
17	DSF	2035U	1148U	S46	W51	11	13.6		34	0	0	E	RAMY		
22	DSF	1225U	0834U	S16	W31	11	20.2		12	0	0	E	SVTO		
23	DSF	1240U	0648U	N64	W46	11	19.4		12	0	0	E	SVTO		
23	DSF	1956U	1131U	S15	W48	11	20.2		14	0	0	E	RAMY	9238	
24	DSF	1720U	1132U	N20	W01	11	24.6		07	0	0	E	RAMY	9236	
24	DSF	2017U	1125U	N28	W54	11	20.6		15	0	0	E	RAMY	9232	
25	DSF	2017U	1125U	N28	W54	11	21.6		15	0	0	E	RAMY	9232	
25	DSF	2034U	1137U	S26	W44	11	22.4		09	0	0	E	RAMY		
26	DSF	1618U	1636U	N22	W40	11	23.6	3	04	0	0	E	RAMY	9236	
27	DSF	1000U	2218U	S02	E00	11	27.4		04	0	0	E	LEAR		
27	DSF	1000U	2218U	S20	E51	12	1.3		14	0	0	E	LEAR		
27	DSF	2106U	1110U	S16	W46	11	24.4		06	0	0	E	RAMY		
28	DSF	1424U	0649U	S20	E30	11	30.9		14	0	0	E	SVTO		
28	DSF	1424U	0649U	S45	W38	11	25.4		22	0	0	E	SVTO		
28	DSF	1653U	1130U	S18	E38	12	1.6		15	0	0	E	RAMY		
28	DSF	1653U	1130U	S45	W39	11	25.5		23	0	0	E	RAMY		
28	DSF	2234U	1431U	S44	W39	11	25.7	3	22	0	0	E	HOLL		
29	DSF	2216U	0212	S45	W44	11	26.3	3	25	9	9	E	LEAR		
29	DSF	2234U	1431U	S44	W39	11	26.7	3	22	0	0	E	HOLL		

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.

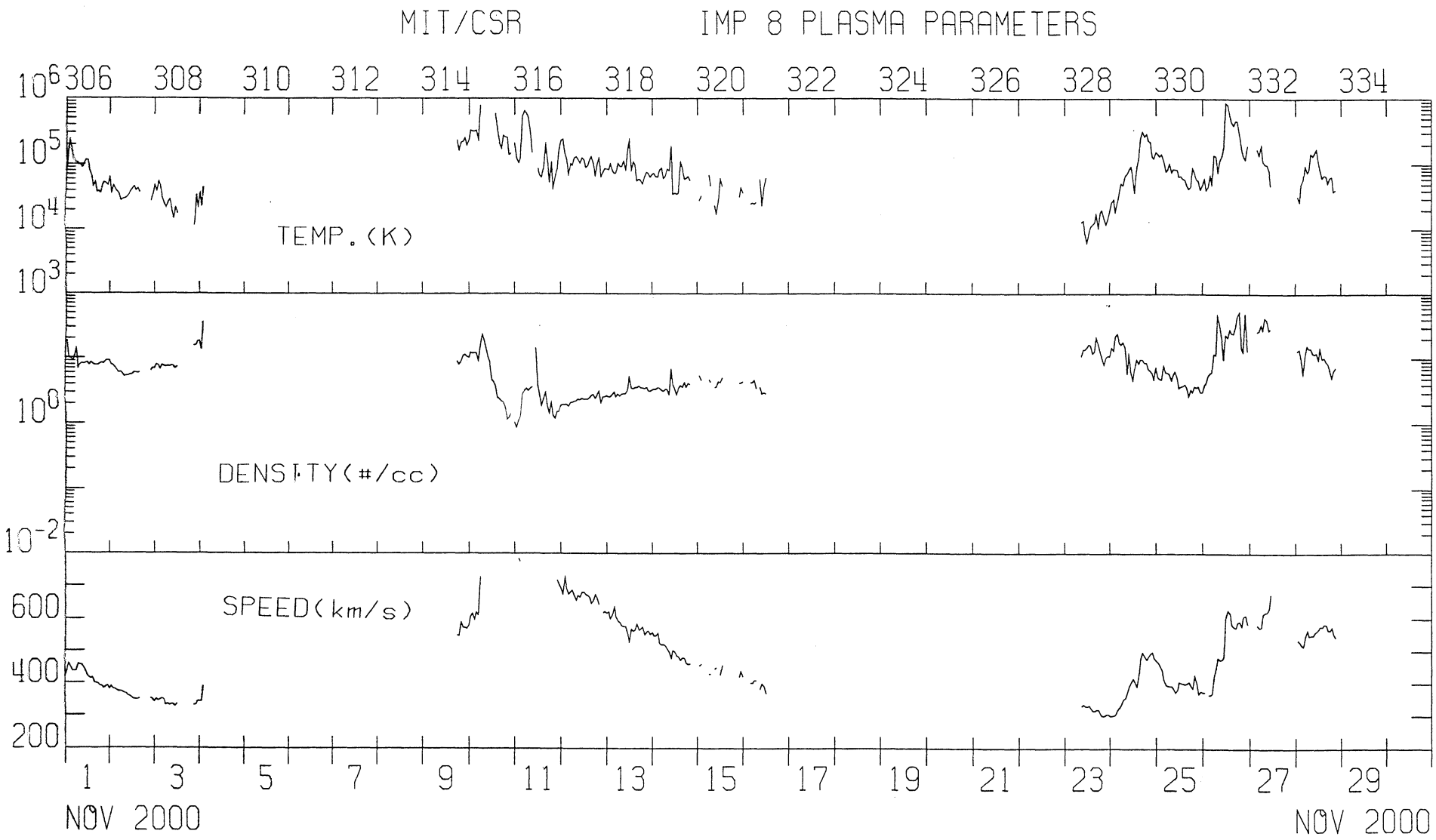
The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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.

IMP 8 SOLAR WIND PLASMA
NOVEMBER 2000



IMP 8 MIT ONE-HOUR AVERAGES