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# Solar - Geophysical Data

## Part II (Comprehensive Reports)

NO. 500 APRIL 1986

DATA FOR  
OCTOBER 1985

Michael A. Chinnery, Director  
NATIONAL GEOPHYSICAL DATA CENTER  
BOULDER, COLORADO

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

NUMBER 500

(Issued in Two Parts)

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Oct 85

CARTE SYNOPTIQUE

ACTIVE REGIONS  
CARRINGTON ROTATION 1767

(26 SEPTEMBER to 24 OCTOBER 1985)

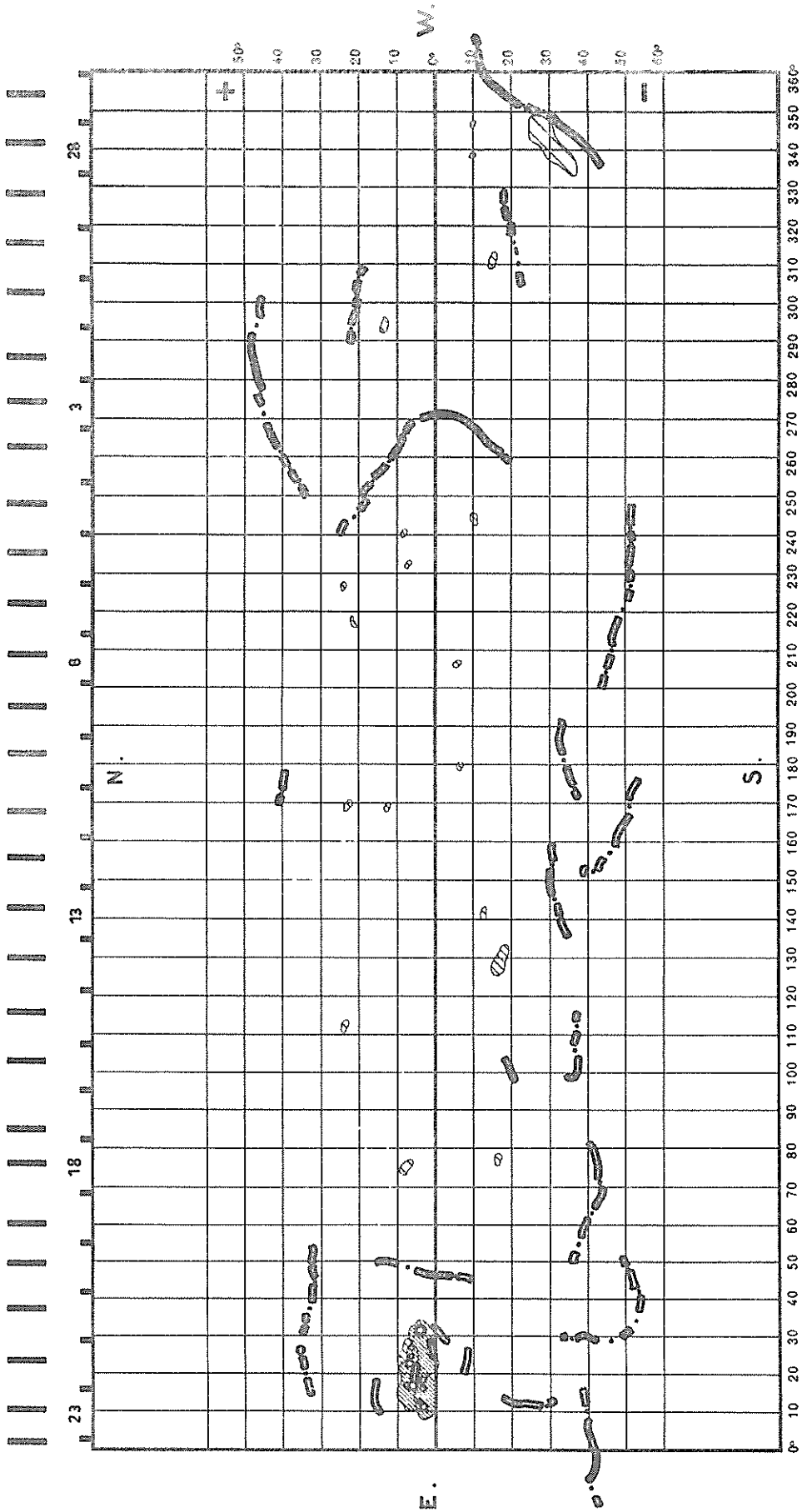
Region No.	Coordinates		Imp	Age at	Spotless Region	Region No. in Rotation 1766	Activity at West Limb
	Lat.	Long.		CMP (Days)			
1	14°S	311	1	0	x		dispersed
2	10°S	245	1	+2	x		disappeared
3	16°S	130	1	0	x		decreasing
4	4°N	27	3	>6			decreasing
5	9°N	27	1	+1	x		dispersed
6	7°N	20	3	+1			decreasing
7	3°N	14	3	+3			decreasing

CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1767  
(26 September to 24 October 1985)

Meudon Observatory

September 1985



Heliographic Longitude

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Oct 85

H - ALPHA SOLAR FLARES

OCTOBER 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
			01 1301		1310			No Flare Patrol											
			01 1333		1355			No Flare Patrol											
			01 1358		1411			No Flare Patrol											
			01 1420		1534			No Flare Patrol											
			01 1543		1554			No Flare Patrol											
			01 1604		1700			No Flare Patrol											
			01 1915		1945			No Flare Patrol											
			01 1950		1955			No Flare Patrol											
			04 1608		1613			No Flare Patrol											
			04 1627		1643			No Flare Patrol											
			04 2001		2014			No Flare Patrol											
			04 2018		2045			No Flare Patrol											
			06 1436		1444			No Flare Patrol											
			07 1946		2002			No Flare Patrol											
			07 2147		2212			No Flare Patrol											
			08 2148		2152			No Flare Patrol											
			08 2304		2313			No Flare Patrol											
0001	HTPR	11	1411	1414	1417	S13	E47		10	15.1	6	SF		C	1414	20	.3	C	
			12 0255		0414			No Flare Patrol											
			14 0928		1033			No Flare Patrol											
			14 1311		1349			No Flare Patrol											
0002	RAMY	14	2110	2110	2135D	S15	W03	4697	10	14.6	25D	SF	3	C		29		H	
0003	HTPR	15	1141	1145	1154	S08	E90		10	22.2	13	SN		C	1145	20			
0004	RAMY	16	1747	1756	1823	N06	E71	4698	10	22.0	36	SF	3	C		14			
0005	CULG	16	2204	2206	2215	N06	E70	4698	10	22.1	11	SN		C		50			
0006	LEAR	16	2243	2248	2250	N03	E70	4698	10	22.2	7	SF	3	C		77		F	
			16 2301		2325			No Flare Patrol											
0007		16	2344.2	2344.5	2354	N06	E70	4698	10	22.2	10	SF				38		EH	
	PALE	16	2344	2344	2352	N06	E70	4698	10	22.2	8	SF	2	C		26		HE	
	CULG	16	2346	2349	2357	N05	E69	4698	10	22.1	11	SF		C		50			
			17 0245		0251			No Flare Patrol											
0008	KANZ	17	1017	1017	1017	N04	E59	4698	10	21.8	11	SF		1					
			17 1503		1510			No Flare Patrol											
			17 1512		1532			No Flare Patrol											
			17 1534		1544			No Flare Patrol											
0009	HTPR	18	0936	0939	0945	N03	E53	4698	10	22.4	9	SF		C	0939	20	.3	E	
0010	CATA	18	1045	1110	1250D	N07	E64	4699	10	23.2	125D	SF	2	P	1110	56	1.3		
0011	HOLL	18	1914	1914	1927	N05	E46	4698	10	22.2	13	SF	3	C		18		F	
0012	CULG	19	0459	0500	0513	N08	E32	4698	10	21.6	14	SF		C		100	1.2	E	
0013	HTPR	19	0808E		0820	N05	E31	4698	10	21.6	12D	SF		C	0810	20	.2	E	
0014	HTPR	19	0935	1004	1015	N05	E31	4698	10	21.7	40	SF		C	1004	20	.2	E	
0015	HTPR	19	1207	1208	1212	N04	E50	4699	10	23.2	5	SF		C	1208	20	.3		
0016	CULG	20	0701E		0737D	N11	E36	4699	10	23.0	36D	SN		P		40	.5	D	
0017	HTPR	20	0855		0946D	N07	E19	4698	10	21.8	51D	SF		C	0916	20	.2		
0018	HTPR	20	0920		0946D	N06	E36	4699	10	23.1	26D	SF		C	0926	20	.2		

H - ALPHA SOLAR FLARES

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Oct 85

OCTOBER 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0019		20	21006	21084	2124	N04	E10	4698	10	21.6	24	1B					214	3.5	EFV	
	CULG	20	2100	2108	2124	N05	E08	4698	10	21.5	24	1B		C			340	3.5	EV	
	HOLL	20	2106	2112	2116D	N04	E11	4698	10	21.7	10D	SN		3	C		87		F	
0020		21	0302	03162	0331	N08	E07	4698	10	21.6	29	SN					200	2.0	E	
	CULG	21	0302	0318	0334	N07	E06	4698	10	21.6	32	SF		C			200	2.0	E	
	MITK	21	0314E	0316	0328	N08	E08	4698	10	21.7	14D	SN		C	0316				E	
0021	TACH	21	0500E		0515D	N05	E26	4699	10	23.1	15D	SN		V	0500		133	1.5	BE	
0022		21	0505*	05192	0552	N04	E05	4698	10	21.6	47	1B					236	2.4	D	
	CULG	21	0505	0519	0619	N04	E05	4698	10	21.6	74	SB		C			200	2.0		
	PEKG	21	0520	0521	0526	N04	E05	4698	10	21.6	6	1N		C	0526		273	2.8	D	
0023	ATHN	21	0559	0600	0609	S05	E07	4697F	10	21.8	10	SN		2	V	0600		32	.3	
0024	TACH	21	0600E		0603D	N05	E19	4699	10	22.7	3D	SN		V	0600		27	.3	D	
0025	WEND	21	0927	0929	0935	N05	E05	4698	10	21.8	8	SF		C	0929		25	.3		
0026		21	1220	1223*	1232	N02	E03	4698	10	21.7	12	SN					44	.4		
	WEND	21	1220	1223	1232	N02	E04	4698	10	21.8	12	SF		C	1223		33	.3		
	CATA	21	1220	1235	1235D	N02	E02	4698	10	21.7	15D	SN		2	P	1235		56	.6	
		21	1655		1701	No Flare Patrol														
		21	1751		1820	No Flare Patrol														
0027	CULG	21	2229E	2235	2337D	N02	W05	4698	10	21.6	68D	SF			P		60	.6		
0028	LEAR	21	2311	2312	2323	N09	E09	4699	10	22.6	12	SF		3	C		34		F	
0029	LEAR	21	2311	2313	2319	N08	W05	4698	10	21.6	8	SN		3	C		40		F	
0030		21	2346*	2349*	2515	N06	E14	4699	10	23.0	89	1F					252	6.0	EH	
	PEKG	21	2346	2349	2608	N06	E15	4699	10	23.1	142	2N		C	2608		505	5.4	E	
	PEKG	21	2355	2356	2358	N06	E13	4699	10	23.0	3	2N		C	2358		631	6.6	E	
	LEAR	22	0059	0103	0109	N07	E16	4699	10	23.2	10	SF		3	C		52			
	PALE	22	0104	0105	0106	N05	E13	4699	10	23.0	2	SF		3	C		39		EH	
	PALE	22	0146	0149	0155	N05	E13	4699	10	23.0	9	SF		3	C		35		E	
0031		22	0318*	0323*	0423	N08	E12	4699	10	23.0	65	SF	C 1.8				96	2.3	DEF	
	LEAR	22	0318	0323	0336	N09	E13	4699	10	23.1	18	SF	C 1.8	3	C		40			
	MITK	22	0324E		0406	N06	E13	4699	10	23.1	42D	1N		C	0324		220	2.3	E	
	LEAR	22	0342	0348	0353	N08	E11	4699	10	23.0	11	SF		3	C		37		F	
	MITK	22	0356E	0418	0507	N07	E12	4699	10	23.1	71D	SN		C	0418				D	
LEAR	22	0415	0429	0513	N10	E10	4699	10	22.9	58	SF		3	C		86				
0032	LEAR	22	0401	0410	0414	N07	E03	4698	10	22.4	13	SF		3	C		27			
0033	LEAR	22	0529	0533	0544	N07	E13	4699	10	23.2	15	SF	C 1.1	3	C		60		F	
0034		22	0749*	0759*	0846	N04	E11	4699	10	23.1	57	SN	C 1.1				97	1.0	E	
	WEND	22	0749	0759	0854	N05	E11	4699	10	23.1	65	SN	C 1.1	C	0759		144	1.5		
	PEKG	22	0752	0810	0835	N06	E10	4699	10	23.1	43	SB	C 1.1	C	0835		126	1.3	E	
	BUCA	22	0756	0757U	0850	N03	E12	4699	10	23.2	54	SF		C	0757		107	1.1	E	
	HTPR	22	0800		0804D	N05	E11	4699	10	23.1	4D	SF		C	0804		30	.3	E	
	ATHN	22	0801E	0840U	0900D	S00	E10	4699	10	23.1	59D	SN		1	V	0840		80	.8	
0035		22	09212	09231	0940	N08	W06	4698	10	21.9	19	SF					64	.8		
	WEND	22	0921	0924	0945	N06	W06	4698	10	21.9	24	SF		C	0924		75	.8		
	LEAR	22	0923	0923	0934	N10	W06	4698	10	21.9	11	SF		3	C		52			
0036		22	11258	1135	1142	N06	E08	4699	10	23.1	17	SN					25	.2	E	
	HTPR	22	1125	1135	1142	N06	E10	4699	10	23.2	17	SN		C	1135		40	.4	E	
	HTPR	22	1133	1135	1141	N07	E05	4699	10	22.8	8	SN		C	1135		10	.1		
0037	HTPR	22	1153	1156	1210	N05	E09	4699	10	23.2	17	SN		C	1156		120	1.2	E	



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0038	HTPR	22	1229E		1306D	N05	E09	4699	10	23.2	37D	SB			C	1245	140	1.4	E
0039	HTPR	22	1347	1357	1423	N06	E08	4699	10	23.2	36	SF			C	1357	30	.3	E
0040	HTPR	22	1354	1357	1404	N08	W09	4698	10	21.9	10	SB			C	1357	70	.7	E
0041	HTPR	22	1448	1450	1510	N03	W09	4698	10	21.9	22	SF			C	1450	10	.1	
		22	1547		1559	No Flare Patrol													
		22	1606		1617	No Flare Patrol													
0042	HOLL	22	1714	1714	1723	N04	W14	4698	10	21.7	9	SN		3	C		89		F
0043	HOLL	22	1855	1857	1904	N05	E06	4699	10	23.2	9	SN		3	C		36		
		22	1934		1944	No Flare Patrol													
0044	HOLL	22	2055	2055	2103	N05	W17	4698	10	21.6	8	SN		3	C		70		F
0045	PEKG	23	0407	0411	0415	N06	W13	4698	10	22.2	8	SN			C	0415	126	1.3	E
0046	HTPR	23	1036	1039	1108	N06	W10	4699	10	22.7	32	SN			C	1039	40	.4	E
0047	HTPR	23	1117	1120	1128	N03	W04	4699	10	23.2	11	SN			C	1120	30	.3	E
0048	HTPR	23	1350	1352	1356	N04	W06	4699	10	23.1	6	SF			C	1352	30	.3	E
0049		23	14301	1435*	1541	N06	W16	4698	10	22.4	71	1B	C 6.6				350	3.7	EFK
	HTPR	23	1430	1435	1545	N06	W13	4698	10	22.6	75	1B			C	1503	400	4.2	EK
	HTPR	23	1430	1503	1545	N06	W13	4698	10	22.6	75	1B			C	1503	400	4.2	
	KANZ	23	1431	1445U	1449D	N04	W19	4698	10	22.2	18D	1F		1					EF
	WEND	23	1431	1502	1534	N07	W17	4698	10	22.3	63	1B	C 6.6		C	1502	250	2.7	
		23	1558		1633	No Flare Patrol													
0050	HOLL	23	1906	1907	1922	N06	W10	4699	10	23.0	16	SF		3	C		53		F
0051	PALE	23	2102	2103	2110	N03	W28	4698	10	21.8	8	SF		3	C		27		
0052	HOLL	23	2158	2200	2214	N08	W11	4699	10	23.1	16	SN		3	C		56		F
0053	HOLL	23	2210	2210	2228	N01	W27	4698	10	21.9	18	SN		3	C		26		F
0054	HOLL	23	2229	2247	2248	N06	W22	4698	10	22.3	19	SN		3	C		45		F
0055	LEAR	23	2244	2253	2304	N11	W19	4699	10	22.5	20	SF		3	C		34		F
0056		24	00015	00116	0051	N07	W22	4698	10	22.3	50	SN	C 2.3				178	2.4	BEFHI
	MITK	24	0001	0011	0043	N07	W22	4698	10	22.3	42	SN			C	0011			E
	LEAR	24	0002	0012	0041	N09	W23	4698	10	22.3	39	SF	C 2.3	3	C		177		F
	PALE	24	0006	0017	0040	N06	W23	4698	10	22.3	34	SN		3	C		134		EH
	VORO	24	0013E		0121	N06	W22	4698	10	22.4	68D	1F			C	0013	224	2.4	BEI
0057	VORO	24	0017	0034	0107	N08	W17	4699	10	22.7	50	1F			C	0034	224	2.4	E
0058		24	01271	01291	0132	N04	W14	4699	10	23.0	5	SF					44	.7	E1JT
	LEAR	24	0127	0129	0131	N05	W15	4699	10	22.9	4	SF		3	C		26		
	VORO	24	0128	0130	0133	N02	W14	4699	10	23.0	5	SF			C	0130	63	.7	E1JT
0059		24	0319*	0315*	0338	N05	W28	4698	10	22.0	19	SF	C 1.3				85	2.0	DEF1JT
	VORO	24	0315E	0315	0322	N02	W30	4698	10	21.9	7D	1F			C	0315	206	2.4	D
	VORO	24	0319	0327	0347	N06	W26	4698	10	22.2	28	SF			C	0327	134	1.5	E1JT
	PALE	24	0321	0323	0325	N03	W31	4698	10	21.8	4	SF		2	C		27		E
	LEAR	24	0321	0330	0348	N08	W25	4698	10	22.3	27	SN	C 1.3	3	C		63		F
	PALE	24	0327	0327	0330	N03	W31	4698	10	21.8	3	SN		2	C		56		E
	LEAR	24	0351	0352	0356	N09	W26	4698	10	22.2	5	SF		3	C		24		F
0060	LEAR	24	0413	0418	0421	N09	W21	4699	10	22.6	8	SF		3	C		24		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)			
0061	24	05091	0515	0525	N08	W26	4698	10	22.3	16	SN	C	1.3				166	2.0	EF		
	LEAR	24	0509	0515	0525	N10	W27	4698	10	22.2	16	SN	C	1.3	3	C		155		F	
	MITK	24	0510	0515	0525	N07	W26	4698	10	22.3	15	SN				C	0515			E	
	TACH	24	0514E		0520D	N06	W25	4698	10	22.3	6D	SN				C	0514	177	2.0	E	
0062	LEAR	24	0640	0642	0651	N08	W27	4698	10	22.2	11	SF				3	C		50		
0063	LEAR	24	0658	0700	0712	N07	W27	4698	10	22.3	14	SF				3	C		28		
0064	24	0820*	09005	0940	N04	W28	4698	10	22.2	80	SN	C	2.4					147	1.7	T	
	LEAR	24	0820	0905	0938	N08	W28	4698	10	22.2	78	SN	C	2.4	3	C		151			
	KANZ	24	0827	0903	0940	N04	W28	4698	10	22.2	73	SN			2						
	CATA	24	0830	0900	0945	N02	W27	4698	10	22.3	75	1B			2	C	0900	197	2.3	T	
	WEND	24	0855E		0935	N04	W27	4698	10	22.3	40D	SF	C	2.4		C	0857	94	1.1		
0065	24	1035	10355	1052	N02	W18	4699	10	23.1	17	SN							84	.9	T	
	KANZ	24	1035	1035	1052	N02	W19	4699	10	23.0	17	SF			2						
	CATA	24	1035E	1040	1050D	N01	W18	4699	10	23.1	15D	SB			2	P	1040	84	.9	T	
0066	KANZ	24	1052	1056	1124	N08	W29	4698	10	22.3	32	SF			2						
0067	24	11485	11532	1206	N06	W29	4698	10	22.3	18	SB	C	6.5					100	1.2	E	
	WEND	24	1148	1155	1212	N06	W28	4698	10	22.4	24	SN	C	6.5		C	1155	100	1.2	E	
	KANZ	24	1153	1153	1201	N07	W30	4698	10	22.2	8	SB			2						
0068	24	1320*	1416	1425	N08	W22	4699	10	22.9	65	SF							21	.2		
	HTPR	24	1320		1418D	N08	W20	4699	10	23.0	58D	SF				C	1338	20	.2		
	HOLL	24	1414	1416	1425	N07	W23	4699	10	22.9	11	SF			3	C		22			
0069	HOLL	24	1605E	1606U	1618	N08	W24	4699	10	22.9	13D	SF			3	C		26			
0070	24	17414	17433	1756	N08	W24	4699	10	22.9	15	SN							34		F	
	PALE	24	1741	1743	1747	N07	W25	4699	10	22.9	6	SF			2	C		23			
	HOLL	24	1745	1746	1804	N08	W24	4699	10	22.9	19	SN			3	C		46		F	
0071	HOLL	24	1955	1956	2011	N06	W31	4699	10	22.5	16	SF			3	C		35			
0072	PALE	24	2235	2236	2238D	N07	W28	4699	10	22.8	3D	SF			3	C		20			
0073	24	2313	23244	2348	N06	W38	4698	10	22.1	35	SF							95	1.2	BDE	
	CULG	24	2313	2324	2353	N06	W38	4698	10	22.1	40	SF				C		100	1.3	E	
	VORO	24	2327E	2328	2344	N07	W38	4698	10	22.1	17D	SF				C	2328	90	1.2	BD	
0074	VORO	25	0051	0059	0105	N09	W31	4699	10	22.7	14	SF				C	0059	108	1.3	E	
0075	CULG	25	0140	0142	0152D	S01	W43	4698	10	21.8	12D	SF				P		40	.5	D	
0076	LEAR	25	0230	0232	0243	N11	W30	4699	10	22.8	13	SN			3	C		30		F	
0077	25	0405*	0405*	0418	N10	W31	4699	10	22.8	13	SN							30		F	
	LEAR	25	0405	0405	0413	N10	W31	4699	10	22.8	8	SN			3	C		24		F	
	LEAR	25	0416	0416	0423	N10	W31	4699	10	22.8	7	SN			3	C		36		F	
0078	HTPR	25	0907E		0918D	N04	W30	4699	10	23.1	11D	SN				C	0908	30	.3		
0079	25	1050	1050	1105	N05	W42	4698	10	22.3	15	SB							140	1.9		
	CATA	25	12051	12064	1219	N02	W37	4699	10	22.7	14	SB						68	.9		
	KANZ	25	1205	1210	1210D	N01	W37	4699	10	22.7	5D	SB			2	P	1210	68	.9		
0081	HOLL	25	1551	1552	1613	N01	W38	4699	10	22.8	22	SN	C	1.4	3	C		77		F	
0082	CULG	25	2023	2024	2045	S01	W54	4698	10	21.8	22	SB				C		40	.7	DV	
0083	CULG	25	2133	2133	2156	S01	W55	4698	10	21.8	23	SF				C		80	1.4	D	
0084	25	21595	22041	2221	S01	W54	4698	10	21.9	22	SN							71	1.7	E	
	CULG	25	2159	2204	2224	S01	W55	4698	10	21.8	25	SN				C		100	1.7	E	
	HOLL	25	2204	2205	2218	S01	W52	4698	10	22.0	14	SN			3	C		42			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement		Remarks		
																Time (UT)	Apparent (10 <sup>-6</sup> Disk)		Corr (Sq Deg)	
0085	LEAR	26	0036	0044	0109	N06	W32	4699	10	23.6	33	SF		3	C		61		F	
0086		26	0455	0401*	0548	N06	W58	4698	10	21.9	53	1N	M 1.8				216	3.2	FK	
	LEAR	26	0359E	0401	0514D	N07	W61	4698	10	21.6	75D	1N		3	C		141		K	
	LEAR	26	0359E	0432U	0514D	N07	W61	4698	10	21.6	75D	1B	M 1.8	3	C		319		F K	
	PEKG	26	0455	0511	0548	N03	W53	4698	10	22.2	53	1N			C	0548	189	3.2	F	
		26	0515		0525	No Flare Patrol														
		26	0534		0538	No Flare Patrol														
		26	0547		0620	No Flare Patrol														
0087	ABST	26	0838E	0845U	0858D	N06	W51	4699	10	22.5	20D	SF			P	0845	44	.7	D	
		26	1533		1621	No Flare Patrol														
		26	1656		1704	No Flare Patrol														
0088	HOLL	26	1935	1938	1953	N03	W49	4699	10	23.1	18	SF		3	C		31		F	
0089	CULG	26	2053	2100	2119	N03	W52	4699	10	23.0	26	SN			C		50	.8	D	
0090	CULG	26	2111	2113	2126	N04	W68	4698	10	21.8	15	1N			C		90	2.3	D	
0091	CULG	26	2329	2340	2351	N04	W68	4698	10	21.9	22	SF			C		60	1.5	D	
0092		27	0055	00575	0132	N04	W54	4699	10	23.0	37	SN					68	.9	DF	
	LEAR	27	0055E	0057	0119	N05	W53	4699	10	23.1	24D	SN		1	C		85		F	
	CULG	27	0055	0102	0144	N03	W55	4699	10	22.9	49	SN			C		50	.9	D	
0093	CULG	27	0118	0130	0149	N04	W69	4698	10	21.9	31	SN			C		40	1.0	D	
0094	CULG	27	0212	0227	0316	N03	W55	4699	10	23.0	64	SN			C		50	.9	D	
0095	CULG	27	0344	0400	0416	N04	W69	4698	10	22.0	32	1F			C		80		D	
		27	0459		0502	No Flare Patrol														
		27	0505		0509	No Flare Patrol														
0096	CULG	27	0510E	0510	0531	N04	W70	4698	10	22.0	21D	1N			P		100		D	
		27	0516		0519	No Flare Patrol														
		27	0641		0648	No Flare Patrol														
0097		27	0708	07118	0738	N04	W72	4698	10	21.9	30	1F					90		E	
	KANZ	27	0707E	0719	0733	N03	W72	4698	10	21.9	26D	SF		1						
	CULG	27	0708	0711	0744	N04	W72	4698	10	21.9	36	1F			C		90		E	
0098		27	0725	07272	0735	N04	W58	4699	10	23.0	10	SN					70	1.2	D	
	CULG	27	0725	0727	0737	N03	W59	4699	10	22.9	12	SN			C		70	1.2	D	
	KANZ	27	0725	0729	0733	N04	W57	4699	10	23.0	8	SF		1						
0099	CULG	27	0751	0753	0807D	N04	W54	4699	10	23.3	16D	1F			C		110	2.1	E	
0100		27	14311	1432	1436	N03	W74	4698	10	22.1	5	SF					10			
	RAMY	27	1431	1432	1436	N03	W76	4698	10	21.9	5	SF		3	C		10			
	KANZ	27	1432	1432	1436	N03	W73	4698	10	22.1	4	SF		2						
0101	HOLL	27	1451	1458	1517	N03	W73	4698	10	22.2	26	SF		3	C		34			
0102	RAMY	27	1553	1557	1623	N02	W78	4698	10	21.8	30	SN		3	C		42			
0103	CULG	27	2235	2239	2252	N03	W67	4699	10	22.9	17	SF			C		70	1.8	E	
0104	CULG	28	0323	0328	0404	N02	W76	4698	10	22.5	41	SF			P		30			
0105	RAMY	28	1612	1614	1627	S01	W89	4698	10	22.0	15	SF	C 1.4	3	C		11			
		28	1651		1725	No Flare Patrol														
0106	CULG	29	0606	0610	0615	N02	W90	4699	10	22.5	9				P					

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
		29	1527		1536	No	Flare	Patrol												
		29	1627		1655	No	Flare	Patrol												
		29	1744		1748	No	Flare	Patrol												
		29	1759		1807	No	Flare	Patrol												
		29	1833		1838	No	Flare	Patrol												
		29	1905		1944	No	Flare	Patrol												
		30	0307		0309	No	Flare	Patrol												
		30	0328		0459	No	Flare	Patrol												
		30	1501		1529	No	Flare	Patrol												
		30	1840		1918	No	Flare	Patrol												
		30	1928		1932	No	Flare	Patrol												
		30	2050		2104	No	Flare	Patrol												
		31	2148		2153	No	Flare	Patrol												
		31	2155		2201	No	Flare	Patrol												
		31	2242		2244	No	Flare	Patrol												
		31	2308		2309	No	Flare	Patrol												
		31	2337		2338	No	Flare	Patrol												
		31	2348		2354	No	Flare	Patrol												

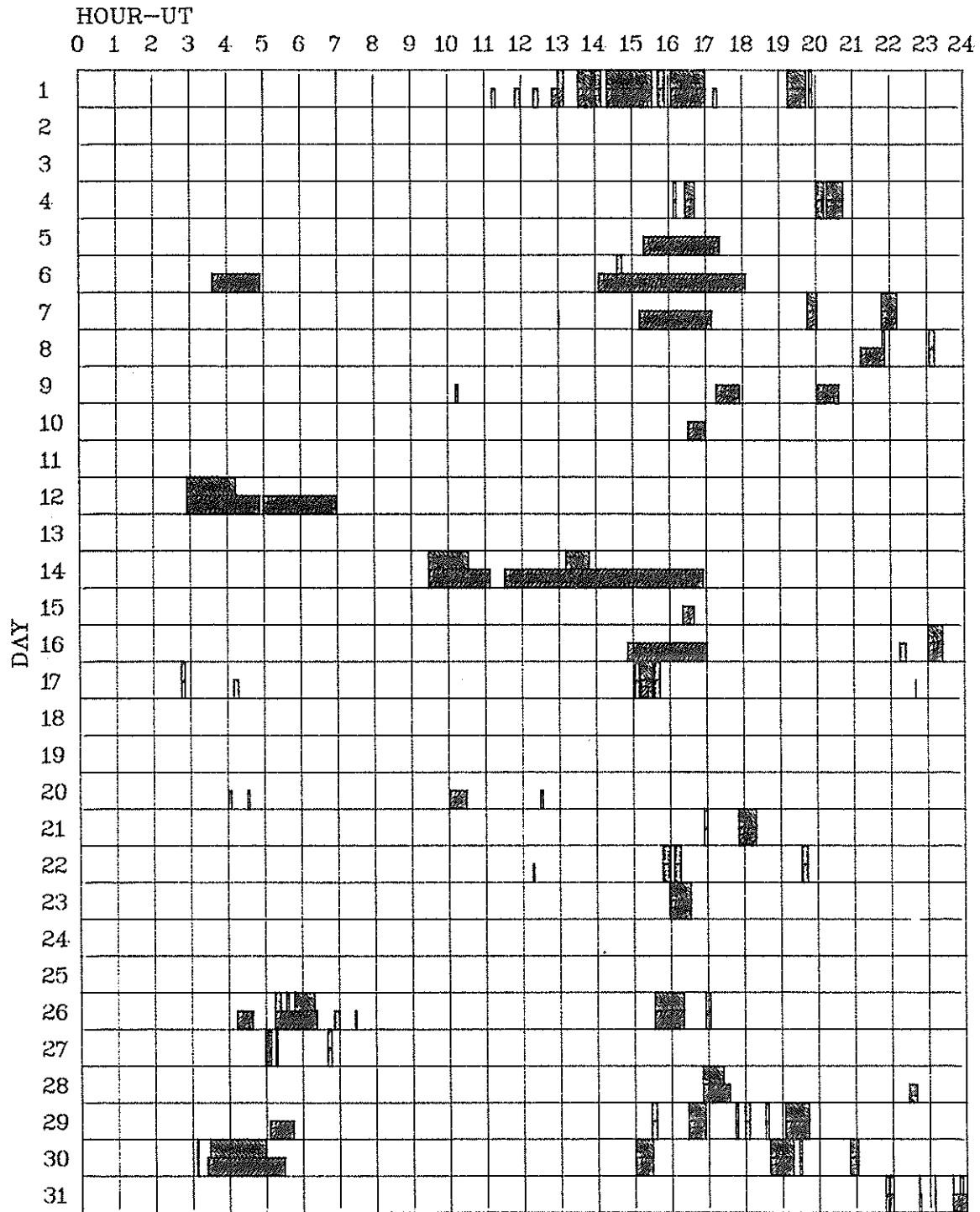
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.  
 B = Probably the end of a more important flare.  
 C = Invisible 10 minutes before.  
 D = Brilliant point.  
 E = Two or more brilliant points.  
 F = Several eruptive centers.  
 G = No visible spots in the neighborhood.  
 H = Flare accompanied by high-speed dark filament.  
 I = Active region very extended.  
 J = Distinct variations of plage intensity before or after the flare.  
 K = Several intensity maxima.  
 L = Existing filaments show signs of sudden activity.  
 M = White-light flare.  
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.  
 P = Flare shows helium D3 in emission.  
 Q = Flare shows Balmer continuum in emission.  
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.  
 S = Brightness follows disappearance of filament in same position.  
 T = Region active all day.  
 U = Two bright branches, parallel or converging.  
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.  
 W = Great increase in area after time of maximum intensity.  
 X = Unusually wide H-alpha line.  
 Y = System of loop-type prominences.  
 Z = Major sunspot umbra covered by flare.

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

OCTOBER 1985



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

- |            |                |             |         |             |
|------------|----------------|-------------|---------|-------------|
| Abastumani | Culgoora       | Kanzelhoehe | Manila  | Purple Mt.  |
| Athens     | Haute Provence | Kharkov     | Mitaka  | Ramey       |
| Bucharest  | Holloman       | Learmonth   | Palehua | Tashkent    |
| Catania    | Istanbul       | Lvov        | Peking  | Voroshilov  |
|            |                |             |         | Wendelstein |

NUMBER OF SOLAR FLARES  
(From the Grouped Flare Listings)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1966								391	558	432	417	543
1967	796	589	1009	694	771	629	907	911	573	946	775	1109
1968	1037	773	519	460	768	697	573	611	616	772	556	640
1969	581	504	669	655	839	694	489	551	540	643	566	422
1970	466	646	578	688	722	836	954	780	811	797	687	667
1971	598	505	387	546	461	430	713	673	518	375	431	394
1972	384	599	621	361	614	541	404	515	371	408	175	210
1973	221	171	410	453	388	270	232	182	353	201	136	163
1974	127	148	79	364	255	204	360	187	270	366	153	81
1975	68	82	69	19	42	85	196	346	68	38	127	25
1976	69	18	180	60	38	48	6	47	57	23	13	55
1977	54	77	18	76	64	210	140	140	250	252	107	336
1978	274	588	338	526	330	460	533	346	554	499	418	648
1979	926	781	731	731	907	772	750	821	901	1018	888	786
1980	703	689	621	1092	811	956	763	720	924	988	1027	838
1981	578	782	914	915	658	592	893	982	680	836	773	615
1982	631	763	783	480	540	769	696*	753*	616*	545*	565*	749*
1983	332*	220*	337*	346*	609*	561*	427*	395*	289*	298*	88*	152*
1984	353*	461*	366*	440*	492*	185*	151*	161*	95*	36*	92*	69*
1985	104*	29*	38*	118*	126*	113*	177*	48*	22*	106*		

\*Preliminary

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SOLAR RADIO EMISSION  
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean (2 Hz)	Int	Remarks
01	930	BORD	46 C	0746.2	0746.6	.6	38.0	4.0		
	930	BORD	41 F	1102.4	1102.7	.6	73.0	3.0		
	930	BORD	41 F	1120.2	1120.7	.8	20.0	3.0		
	930	BORD	8 S	1141.5	1141.8	.3	17.0	2.0		
	930	BORD	8 S	1304.2	1304.3	.3	21.0	2.0		
02	930	BORD	46 C	0806.8	0807.2	.6	179.0	6.0		
	930	BORD	8 S	1100.3	1100.8	.8	169.0	2.0		
	930	BORD	41 F	1601.0	1601.5	.6	65.0	3.0		
03	536	ONDR	8 S	0839.0	0839.1	.3	21.0			
	808	ONDR	8 S	0839.0	0839.1	.3				
	260	ONDR	8 S	0839.0	0839.2	.7	4.0			
	930	BORD	8 S	1004.4	1004.7	.4	89.0	2.0		
	930	BORD	8 S	1217.1	1217.3	.2	10.0	2.0		
	930	BORD	41 F	1601.6	1602.2	.7	49.0	3.0		
	930	BORD	41 F	1653.9	1654.0	.6	38.0	3.0		
04	536	ONDR	28 PRE	0825.5		4.0	38.0	9.0		
	536	ONDR	46 C	0829.5	0830.5	6.5	332.0	225.0		
	536	ONDR	29 PBI	0836.5	0839.0	8.1	129.0	87.0		
	536	ONDR	46 C	0844.5	0847.0	9.0	338.0	300.0		
	536	ONDR	29 PBI	0853.3		20.0	34.0	10.0		
	930	BORD	8 S	1058.7	1058.9	.4	348.0	3.0		
	536	ONDR	8 S	1204.5	1205.0	.6	22.0			
	808	ONDR	8 S	1215.0	1215.0	.2				
	260	ONDR	42 SER	1215.0	1215.5	2.0	5.0			
	930	BORD	41 F	1532.0	1532.4	.4	73.0	3.0		
05	33	UPIC	2 S/F	1119.5	1120.3	1.3				
	29	UPIC	3 S	1120.2	1120.6	.8				
	33	UPIC	4 S/F	1212.5	1213.0	1.1				
	29	UPIC	8 S	1213.1	1213.4	.5				
07	930	BORD	8 S	1006.2	1006.4	.2	15.0	2.0		
	260	ONDR	8 S	1034.0	1034.0	.1	4.0			
	930	BORD	41 F	1102.2	1102.7	2.6	179.0	2.0		
	260	ONDR	8 S	1404.5	1404.7	.5	39.0			
	930	BORD	41 F	1547.6	1548.1	.6	49.0	4.0		
08	930	BORD	8 S	1001.0	1001.2	.4	50.0	2.0		
	930	BORD	8 S	1042.6	1042.7	.3	14.0	2.0		
	930	BORD	8 S	1109.0	1109.2	.4	174.0	2.0		
09	930	BORD	8 S	1139.2	1139.3	.2	10.0	2.0		
10	2840	PEKG	29 PBI	0429.0		34.0	4.1	2.0		
	260	ONDR	8 S	0843.5	0843.6	.5	2.0			
	536	ONDR	46 C	0935.0	0935.5	1.0	13.0			
	260	ONDR	4 S/F	0935.3	0935.5	1.2	5.0			
	808	ONDR	2 S/F	0935.5	0935.8	.7				
	260	ONDR	8 S	1123.0	1123.0	.2	2.0			
	930	BORD	8 S	1143.7	1143.8	.3	37.0	2.0		
	536	ONDR	46 C	1308.0	1308.5	1.0	18.0			
	930	BORD	8 S	1545.3	1545.4	.2	13.0	2.0		
11	260	ONDR	42 SER	0857.5	0901.7	10.0	2.0			
	930	BORD	8 S	1029.9	1030.0	.3	18.0	2.0		
	536	ONDR	8 S	1217.3	1217.5	.7	6.0			
	536	ONDR	40 F	1252.0	1300.8	14.5	24.0			
	8800	SGMR	47 GB	1854.3	1856.6	4.0	88.0			QL=1 ST=2 TYP=5
12	260	ONDR	8 S	0913.5	0913.5	.3	2.0			
	260	ONDR	8 S	1030.5	1030.5	.2	4.0			
	930	BORD	8 S	1119.6	1119.8	.4	8.0	2.0		
13	260	ONDR	8 S	0912.0	0912.5	1.0	1.0			
14	930	BORD	8 S	1039.0	1039.1	.2	22.0	2.0		
	930	BORD	8 S	1117.6	1117.8	.4	20.0	2.0		
	930	BORD	41 F	1123.0	1123.5	.6	38.0	3.0		

SOLAR RADIO EMISSION  
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (W/m <sup>2</sup> Hz)			
14	260	ONDR	46 C	1146.2	1146.8	1.0	5.0				
	930	BORD	46 C	1327.0	1327.4	.5	72.0	6.0			
	930	BORD	42 SER	1603.4	1603.9	4.2	53.0	2.0			
	245	SGMR	47 GB	1915.1	1922.3	11.9	239.0			QL=1 ST=2 TYP=5	
15	9400	TYKW	20 GRF	0230.0	0310.0	120.0	4.0	2.0			
	3750	TYKW	20 GRF	0239.0	0310.0	110.0	2.0	1.0			
	930	BORD	41 F	0748.4	0748.7	.5	14.0	3.0			
	930	BORD	8 S	1132.4	1132.6	.4	11.0	2.0			
	260	ONDR	8 S	1207.5	1207.8	.6	10.0				
	536	ONDR	46 C	1217.0	1217.4	.6	31.0				
	808	ONDR	8 S	1217.5	1217.8	.5					
	930	BORD	8 S	1315.8	1315.9	.3	16.0	2.0			
16	260	ONDR	44 NS	0757.0E		373.0D	4.0				
	245	LEAR	43 NS	2207.0	0609.8	724.0D	78.0			QL=6 ST=2 TYP=1	
	3100	CRIM	24 R	0550.0	0820.0		2.5				
	930	BORD	46 C	0817.4	0817.8	.6	159.0	5.0			
	930	BORD	8 S	1428.6	1428.8	.3	16.0	2.0			
	930	BORD	46 C	1630.0	1630.3	.6	10.0	3.0			
	2800	OTTA	2 S/F	2034.0	2034.2	4.0	2.6	.9			
	2000	TYKW	20 GRF	2140.0	2230.0	130.0	2.0	1.0			
	3750	TYKW	20 GRF	2150.0	2230.0	120.0	2.0	1.0		RAIN	
	2695	PENT	1 S	2201.0	2202.0	3.0	2.2	1.0			
	2695	PENT	20 GRF	2205.0	2245.0	90.0	1.8	.9			
	17	260	ONDR	44 NS	0758.0E		408.0D	14.0			
		930	BORD	8 S	0801.4	0801.7	.5	10.0	2.0		
930		BORD	8 S	1057.0	1057.3	.3	55.0	2.0			
930		BORD	8 S	1129.3	1129.4	.2	15.0	2.0			
930		BORD	8 S	1216.5	1216.8	.6	21.0	2.0			
930		BORD	46 C	1615.2	1615.5	.6	70.0	7.0			
18		930	BORD	8 S	0745.2	0745.6	.5	14.0	3.0		
	430	TORN	42 SER	0852.2	0852.5	10.5	24.0				
	430	TORN		0852.2	0858.8		27.0				
	430	TORN		0852.2	0902.0		26.0				
	810	TORN	42 SER	0859.5	0859.8	4.0	8.0				
	810	TORN		0859.5	0903.2		10.0				
	260	ONDR	42 SER	0950.8	1144.1	126.2	9.0				
	430	TORN	42 SER	1033.5	1039.8	13.5	46.0				
	810	TORN	41 F	1040.2	1040.5	.7	13.0	2.0			
	930	BORD	46 C	1055.2	1055.8	.7	44.0	4.0			
	810	TORN	8 S	1139.0	1139.2	.3	10.0				
	430	TORN	42 SER	1141.7	1142.0	4.5	59.0				
	430	TORN		1141.7	1145.0		31.0				
	810	TORN	8	1202.8	1202.8	.1	5.0				
	430	TORN	42 SER	1203.0	1203.2	13.5	9.0				
	430	TORN		1203.0	1206.0		11.0				
	930	BORD	41 F	1316.0	1316.3	.4	25.0	2.0			
	260	ONDR	40 F	1334.7	1334.7	1.0	8.0				
	930	BORD	41 F	1512.6	1513.0	.6	55.0	4.0			
	2800	OTTA	20 GRF	1525.0	1535.0	35.0	1.0	.5			
930	BORD	41 F	1549.0	1549.1	.3	13.0	2.0				
2800	OTTA	1 S	1914.0	1915.0	10.0	0.8	.4				
19	200	GORK	44 NS	0457.0E		383.0D		5.0			
	204	IZMI	43 NS	1025.0		95.0	50.0				
	245	LEAR	43 NS	2320.0	0432.3	652.0D	200.0			QL=6 ST=2 TYP=1	
	245	LEAR	49 GB	0457.6	0458.6	1.7	2199.0			QL=6 ST=2 TYP=6	
	200	H IRA	46 C	0458.0	0458.3	1.3	2300.0	390.0		0	
	500	H IRA	6 S	0458.3	0458.6	1.5	10.0	5.0		WL	
	9400	TYKW	5 S	0458.3	0458.7	1.5	2.5	1.0			
	410	LEAR	8 S	0458.5	0458.6	.8	30.0			QL=6 ST=2 TYP=3	
	2000	TYKW	45 C	0458.5	0458.9	1.5	3.0	1.0			
	3750	TYKW	5 S	0458.5	0458.9	1.5	2.5	1.0			
	1000	TYKW	45 C	0458.5	0459.0	2.5	12.0	2.0			
	8800	LEAR	8 S	0458.6	0458.6	.2	4.0			QL=6 ST=2 TYP=3	
	1415	LEAR	8 S	0458.6	0458.8	.7	4.0			QL=6 ST=2 TYP=3	
	2695	LEAR	8 S	0458.6	0458.8	.4	3.0			QL=6 ST=2 TYP=3	
	4995	LEAR	8 S	0458.6	0458.8	.4	3.0			QL=6 ST=2 TYP=3	



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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
19	610	LEAR	8 S	0458.6	0459.1	.7	6.0			QL=6 ST=2 TYP=3
	245	LEAR	8 S	0526.6	0526.8	.7	44.0			QL=6 ST=2 TYP=3
	9400	TYKW	5 S	0552.3	0552.6	.7	8.0	3.0		
	260	ONDR	45 C	0958.5	1004.0	166.5	40.0			
	930	BORD	41 F	1052.4	1052.6	1.7	31.0	3.0		
	430	TORN	8 S	1109.5	1109.8	.5	14.0			
	810	TORN	8 S	1109.8	1109.8	.1	9.0			
20	204	IZMI	43 NS	0648.0		312.0	20.0			
	200	GORK	44 NS	0658.0E		275.00		5.0		
	260	ONDR	44 NS	0837.0E	1226.0	332.00	51.0			
	245	LEAR	43 NS	2204.0	0208.3		32.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2204.0	0232.8		58.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2204.0	0306.8		82.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2204.0	0313.3		119.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2204.0	0510.3		490.0			QL=6 ST=1 TYP=1
	245	LEAR	43 NS	2204.0	2227.3		22.0			QL=6 ST=1 TYP=1
	410	LEAR	47 GB	0159.1	0200.1	1.5	370.0			QL=6 ST=2 TYP=5
	2800	OTTA	20 GRF	1720.0	1735.0	40.0	.8	.5		
	2800	OTTA	1 S	1905.5	1906.0	4.0	1.2	.7		
	2800	OTTA	21 GRF	2106.0	2111.0	18.0	1.2	.5		
	500	HIRA	6 S	2106.5	2106.6	1.7	16.0	10.0		WR
	2800	OTTA	40 F	2107.5	2107.7	1.0	9.4			
500	HIRA	8 S	2110.0	2110.3	.6	17.0	11.0		WR	
21	260	ONDR	44 NS	0753.0E	1027.8	394.00	80.0			
	200	HIRA	44 NS	2050.0E	0437.0	660.00	110.0	25.0		WL
	245	LEAR	43 NS	2203.0	2309.3	730.00	100.0			QL=6 ST=2 TYP=1
	200	HIRA	46 C	0133.2	0133.4	1.5	57.0	8.0		O
	100	HIRA	46 C	0133.3	0133.6	1.2	340.0	85.0		ML
	500	HIRA	45 C	0136.2	0137.6	6.0	4.0	2.0		WL
	1000	TYKW	20 GRF	0306.0	0325.0	90.0	1.0	.5		
	3750	TYKW	45 C	0307.0	0311.6	10.0	3.0	1.5		
	2000	TYKW	21 GRF	0310.0	0317.0	30.0	1.5	.7		
	2000	TYKW	5 S	0311.0	0311.6	2.0	2.0	.7		
	500	HIRA	8 S	0311.0	0311.0	.6	5.0			O
	3750	TYKW	29 PBI	0317.0		15.0	2.0	1.0		
	2000	TYKW	21 GRF	0505.0	0515.0	40.0	1.5	.7		
	9400	TYKW	20 GRF	0505.0	0520.0	35.0	2.0	1.0		
	200	HIRA	42 SER	0509.8	0510.2	32.0	1050.0			O
	500	HIRA	42 SER	0509.9	0519.6	12.0	145.0			WR
	3750	TYKW	20 GRF	0510.0	0520.0	40.0	2.0	1.0		
	100	HIRA	42 SER	0513.0	0538.3	29.0	7000.0			WL
	2840	PEKG	20 GRF	0516.0	0521.6	10.0	2.6	1.8		
	245	LEAR	47 GB	0516.6	0519.8	5.5	210.0			QL=6 ST=2 TYP=5
	610	LEAR	47 GB	0516.6	0519.8	7.2	72.0			QL=6 ST=2 TYP=5
	410	LEAR	47 GB	0516.6	0519.8	5.5	79.0			QL=6 ST=2 TYP=5
	9395	PEKG	20 GRF	0520.0	0521.7	9.0	13.3	4.2		
	410	LEAR	4 S/F	0520.6	0521.3	7.7	18.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0520.6	0521.3	1.2	16.0			QL=6 ST=2 TYP=3
	245	LEAR	47 GB	0520.6	0521.3	1.5	96.0			QL=6 ST=2 TYP=5
	2000	TYKW	5 S	0521.0	0521.6	2.0	1.0	.3		
	1415	LEAR	8 S	0521.3	0521.3	.2	3.0			QL=6 ST=2 TYP=3
	113	POTS	41 F	0925.0	0930.0	5.3	800.0	40.0		
	234	POTS	41 F	0925.5	0928.2	6.0	65.0	3.0		
	204	IZMI	41 F	0925.7	0927.5	8.0	430.0			
	245	LEAR	47 GB	0927.5	0927.6	.1	50.0			QL=6 ST=2 TYP=5
610	LEAR	4 S/F	0927.6	0930.6	3.2	21.0			QL=6 ST=2 TYP=3	
410	LEAR	47 GB	0927.6	0930.6	3.2	57.0			QL=6 ST=2 TYP=5	
1470	POTS	1 S	0930.0	0930.6	1.2	1.3				
33	UPIC	2 S/F	0930.6	0930.7	.7					
30	POTS	4 S/F	0930.6	0931.0	4.1	90.0	30.0			
29	UPIC	2 S/F	0930.8	0931.1	.9					
204	IZMI	4 S/F	0943.7	0944.9	1.5	40.0	20.0			
204	IZMI	41 F	1026.5	1027.4	13.5	98.0				
33	UPIC	2 S/F	1027.9	1028.1	.6					
29	UPIC	2 S/F	1027.9	1028.4	.9					
930	BORD	41 F	1105.0	1105.4	.5	63.0	3.0			
204	IZMI	41 F	1147.8	1148.4	2.2	40.0				
204	IZMI	5 S	1157.5	1157.6	.6	13.0	5.0			
33	UPIC	41 F	1218.0	1225.3	9.5					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
21	29	UPIC	41 F	1218.4	1225.7	9.3U				
	930	BORD	41 F	1607.7	1608.0	2.0	21.0	2.0		
	2800	OTTA	8 S	1608.5	1608.7	.3	2.6			
	245	SGMR	47 GB	1803.6	1803.6	.5	150.0			QL=1 ST=2 TYP=5
	2800	OTTA	20 GRF	2005.0	2040.0	40.0	1.2	.6		
	2695	PENT	240 R	2050.0	2135.0	45.0	3.6	1.8		
	100	HIRA	42 SER	2229.7	2230.3	14.5	930.0			WR
	200	HIRA	42 SER	2307.0	2312.0	10.3	180.0			0
	3750	TYKW	45 C	2310.0	2311.4	3.0	8.0	3.0		
	2000	TYKW	45 C	2310.0	2311.4	4.0	8.0	1.0		
	1000	TYKW	45 C	2310.0	2311.9	6.0	14.0	2.5		
	500	HIRA	45 C	2310.4	2311.7	3.2	30.0	7.0		WR
	2695	PENT	2 S/F	2310.5	2311.5	3.0	4.6	2.0		
	3750	TYKW	29 PBI	2313.0		10.0	2.0	1.0		
	100	HIRA	42 SER	2313.3	2318.5	6.8	560.0			WL
	500	HIRA	45 C	2314.0	2314.1	1.6	38.0	10.0		WL
	3750	TYKW	20 GRF	2325.0	2350.0	80.0	1.5	.7		
22	100	HIRA	43 NS	0324.0	0400.0	230.0D	280.0	60.0		WL
	200	GORK	44 NS	0500.0E		456.0D		15.0		
	100	GORK	44 NS	0500.0E		456.0D		5.0		
	204	IZMI	44 NS	0600.0E		360.0	30.0			
	234	POTS	44 NS	0620.0E	1422.0	520.0D	50.0U			
	260	ONDR	44 NS	0759.0E	1209.0	371.0D	99.0			
	245	SGMR	43 NS	1127.0						QL=1 ST=1 TYP=1
	245	SGMR	43 NS	1127.0	1513.5		80.0			QL=1 ST=1 TYP=1
	245	SGMR	43 NS	1127.0	1526.3		139.0			QL=1 ST=1 TYP=1
	113	POTS	43 NS	1346.0	1451.0	77.0D	38.0U			
	410	SGMR	43 NS	1405.0						QL=1 ST=1 TYP=1
	410	SGMR	43 NS	1405.0	1451.8		32.0			QL=1 ST=1 TYP=1
	610	SGMR	43 NS	1415.0						QL=1 ST=1 TYP=1
	610	SGMR	43 NS	1415.0	1446.6		18.0			QL=1 ST=1 TYP=1
	200	HIRA	44 NS	2050.0E	2259.0	600.0D	10.0	5.0		0
	245	LEAR	43 NS	2203.0	2241.8	731.0D	139.0			QL=6 ST=2 TYP=1
	1000	TYKW	45 C	0124.0	0125.3	3.0	16.0	2.0		
	2000	TYKW	21 GRF	0135.0	0250.0	280.0	1.5	.7		
	3750	TYKW	21 GRF	0145.0	0238.0	265.0	2.0	1.0		
	9400	TYKW	21 GRF	0200.0	0255.0	250.0	2.0	1.0		
	3750	TYKW	21 GRF	0259.0	0325.0	180.0	5.0	2.5		
	2000	TYKW	21 GRF	0300.0	0355.0	170.0	3.0	1.5		
	9400	TYKW	21 GRF	0303.0	0400.0	180.0	4.0	2.0		
	1000	TYKW	45 C	0304.0	0317.9	75.0	9.0	3.0		
	1000	TYKW		0304.0	0410.1		7.0			
	500	HIRA	27 RF	0304.9	0320.4	146.0	40.0	17.0		ML
	245	LEAR	47 GB	0312.0	0340.1	79.1	119.0			QL=6 ST=2 TYP=5
	610	LEAR	20 GRF	0312.0	0342.3	62.8	42.0			QL=6 ST=2 TYP=2
	410	LEAR	20 GRF	0312.0	0342.3	79.1	59.0			QL=6 ST=2 TYP=2
	2000	TYKW	5 S	0317.4	0317.7	1.0	1.0	.3		
	3750	TYKW	21 GRF	0345.0	0430.0	125.0	4.0	2.0		
	2000	TYKW	45 C	0407.0	0410.0	8.0	3.0	1.5		
	500	HIRA	45 C	0407.3	0408.6	3.0	25.0	10.0		WR
9400	TYKW	20 GRF	0410.0	0440.0	100.0	3.0	1.5			
500	HIRA	45 C	0412.0	0413.3	2.6	13.0	6.0		WR	
2000	TYKW	29 PBI	0415.0		85.0	1.5	.7			
1000	TYKW	29 PBI	0419.0		60.0	2.0	1.0			
3750	TYKW	5 S	0527.0	0528.5	3.0	4.0	1.5			
3750	TYKW	29 PBI	0530.0		15.0	1.0	.5			
3100	CRIM	24 R	0720.0	0756.0		4.0				
2950	GORK	20 GRF	0753.4	0755.6	246.0D	3.0				
9300	KISV	20 GRF	0754.6	0830.9	45.0	5.0				
810	TORN	8 S	0859.2	0859.2	.1	12.0				
536	ONDR	8 S	0955.0	0955.2	.8	12.0				
930	BORD	41 F	1104.0	1104.7	.9	47.0	4.0			
2800	OTTA	1 S	1301.7	1301.7	1.0	2.0	.6			
430	TORN	8 S	1319.5	1319.8	.5	15.0				
810	TORN	8 S	1320.0	1320.0	.1	21.0				
2800	OTTA	27A RF	1330.0		190.0	3.4	2.8			
2800	OTTA	24 R	1330.0	1400.0	30.0	3.4	1.7			
2800	OTTA	24P R	1400.0		120.0	3.4				
2800	OTTA	1 S	1526.0	1526.3	1.0	8.8	2.2			
930	BORD	41 F	1526.0	1529.1	3.6	24.0	3.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)		
22	2800	OTTA	29 PBI	1527.0	1527.0	6.0	1.2	.6		
	2800	OTTA	26 FAL	1600.0	1640.0	40.0	-3.4	-1.7		
	930	BORD	41 F	1622.6	1622.8	.5	39.0	2.0		
	2800	OTTA	1 S	1713.0	1713.8	4.0	1.4	.7		
	245	SGMR	49 GB	1914.5	1916.1	2.3	2199.0			QL=1 ST=2 TYP=6
	2800	OTTA	40 F	2055.4	2055.4	.1	3.0			
23	200	GORK	44 NS	0454.0E		322.0D		5.0		
	260	ONDR	44 NS	0807.0E	1152.7	373.0D	20.0			
	204	IZMI	43 NS	0832.0		208.0	10.0			
	9400	TYKW	5 S	0123.0	0123.7	2.0	3.0	1.0		
	3750	TYKW	5 S	0123.0	0123.7	1.0	4.5	1.5		
	3750	TYKW	29 PBI	0124.0		15.0	1.0	0.5		
	930	BORD	41 F	1058.2	1058.7	.5	80.0	3.0		
	29	UPIC	3 S	1209.5	1209.6	.3				
	33	UPIC	3 S	1209.6	1209.7	.3				
	808	ONDR	8 S	1335.2	1335.3	.3				
	2800	OTTA	21 GRF	1425.0	1505.0	230.0	9.6	2.4		
	930	BORD	46 C	1454.0	1500.6	14.0	70.0	11.0		
	2800	OTTA	4 S/F	1457.5	1459.0	6.0	10.2	4.8		
	610	SGMR	47 GB	1459.3	1500.8	2.0	91.0			QL=1 ST=2 TYP=5
	245	SGMR	49 GB	1512.3	1514.0	8.0	13999.0			QL=1 ST=2 TYP=6
	245	SGMR	49 GB	1541.6	1543.1	7.4	590.0			QL=1 ST=2 TYP=6
	930	BORD	41 F	1559.3	1559.6	.5	60.0	3.0		
	2800	OTTA	27 RF	1850.0		100.0	1.4	1.3		
	2800	OTTA	24 R	1850.0	1900.0	10.0	1.4	.7		
	2800	OTTA	24P R	1900.0		75.0	1.4			
	2800	OTTA	26 FAL	2015.0	2030.0	15.0	-1.4	-0.7		
	2000	TYKW	21 GRF	2155.0	2220.0	90.0	2.0	1.0		
	2695	PENT	21 GRF	2155.0	2235.0	85.0	1.8	1.0		
	3750	TYKW	21 GRF	2203.0	2220.0	40.0	2.0	1.0		
	9400	TYKW	45 C	2209.0	2211.3	4.0	5.0	1.5		
	3750	TYKW	5 S	2210.0	2210.4	2.0	3.0	1.0		
	2000	TYKW	45 C	2210.0	2210.4	2.0	21.0	4.0		
	2695	PENT	2 S/F	2210.0	2210.5	5.0	6.8	2.0		
	1000	TYKW	45 C	2210.0	2211.0	2.0	4.0	1.5		
	500	HIRA	6 S	2210.0	2210.4	1.0	25.0	6.0		0
	9400	TYKW	5 S	2237.0	2237.3	1.0	6.0	2.0		
	2000	TYKW	20 GRF	2245.0	2249.0	35.0	1.0	.5		
3750	TYKW	21 GRF	2247.0	2250.0	55.0	1.5	.7			
9400	TYKW	5 S	2259.0	2259.6	1.5	3.0	1.0			
3750	TYKW	5 S	2259.0	2259.6	1.5	3.0	1.0			
24	260	ONDR	44 NS	0804.0E	0919.0	377.0D	26.0			
	200	HIRA	44 NS	2050.0E	2200.0	180.0D	6.0	3.0		0
	245	LEAR	43 NS	2201.0	0940.8	733.0D	34.0			QL=6 ST=2 TYP=1
	3750	TYKW	20 GRF	0003.0	0015.0	80.0	5.0	2.0		
	9400	TYKW	20 GRF	0003.0	0016.0	70.0	4.0	2.0		
	2000	TYKW	20 GRF	0008.0	0014.0	70.0	2.0	1.0		
	3750	TYKW	21 GRF	0220.0	0236.0	100.0	1.5	.7		
	500	HIRA	42 SER	0230.7	0230.7	1.2	15.0			0
	2000	TYKW	5 S	0311.0	0311.8	2.0	3.5	.5		
	3750	TYKW	45 C	0311.0	0311.9	2.0	6.0	1.5		
	3750	TYKW	29 PBI	0313.0		4.0	1.0	.5		
	9400	TYKW	20 GRF	0505.0	0515.0	40.0	3.0	1.5		
	3750	TYKW	5 S	0511.0	0513.7	15.0	3.0	1.0		
	2000	TYKW	5 S	0512.0	0513.4	8.0	2.0	.5		
	2950	GORK	20 GRF	0512.5	0513.5	14.7	2.2	1.0		
	3750	TYKW	21 GRF	0540.0	0558.0	50.0	1.5	.7		
	245	LEAR	49 GB	0608.6	0609.6	5.7	770.0			QL=6 ST=2 TYP=6
	610	LEAR	4 S/F	0608.8	0609.5	5.5	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	5 S	0609.0	0609.6	2.0	10.0	.7		
	3750	TYKW	5 S	0609.0	0609.6	2.0	13.0	1.5		
	200	HIRA	8 S	0609.2	0609.4	.4	730.0			0
	500	HIRA	8 S	0609.3	0609.3	.3	40.0			WL
	1415	LEAR	8 S	0609.3	0609.5	.3	3.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0609.3	0609.6	.3	3.0			QL=6 ST=2 TYP=3
1000	TYKW	5 S	0609.5	0609.6	.5	3.0	.7			
2695	LEAR	8 S	0609.5	0609.6	.1	9.0			QL=6 ST=2 TYP=3	
4995	LEAR	8 S	0609.5	0609.6	.3	3.0			QL=6 ST=2 TYP=3	
410	LEAR	47 GB	0609.5	0609.6	.3	92.0			QL=6 ST=2 TYP=5	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
24	3750	TYKW	29 PBI	0611.0		10.0	1.0	.5		
	2000	TYKW	20 GRF	0640.0	0655.0	40.00	2.0	1.00		
	245	LEAR	8 S	0640.6	0640.8	.4	36.0			QL=6 ST=2 TYP=3
	3750	TYKW	20 GRF	0642.0	0651.0	40.0	2.0	1.0		
	245	LEAR	4 S/F	0701.1	0701.3	3.2	25.0			QL=6 ST=2 TYP=3
	3100	CRIM	20 GRF	0800.0	0904.0	210.0	9.0	3.0		
	2950	GORK	20 GRF	0806.0	0850.0	94.0	3.2			
	9500	POTS	32 ABS	0940.0	0948.2	10.0	6.0			
	2950	GORK	20 GRF	1033.6	1034.0	32.3	1.3	.6		
	33	UPIC	42 SER	1036.4	1122.4	47.5				
	29	UPIC	42 SER	1036.4	1122.50	47.4				
	930	BORD	46 C	1102.3	1102.5	.5	30.0	4.0		
	2950	GORK	21 GRF	1148.6	1153.3	17.5	3.3	1.6		
	2950	GORK	45 C	1149.8	1151.0	3.5	7.6			
	1470	POTS	2 S/F	1150.0	1150.4	2.0	3.0			
	3000	POTS	4 S/F	1150.0	1150.7	7.5	11.0			
	9500	POTS	27 RF	1150.0	1153.0	15.0	9.0			
	3100	CRIM	3 S	1150.0	1151.0	2.0	15.0	5.0		
	9100	GORK	20 GRF	1150.1	1153.5	21.70	10.0			
	810	TORN	8 S	1150.3	1150.3	.1	10.0			
	3100	CRIM	29 PBI	1152.0	1152.0	13.0	8.0	3.0		
	430	TORN	8 S	1152.5	1152.5	.1	19.0			
	930	BORD	41 F	1249.8	1250.5	.7	40.0	3.0		
	2800	OTTA	20 GRF	1315.0	1325.0	45.0	2.0	1.0		
	2800	OTTA	20 GRF	1555.0	1600.0	35.0	1.6	.8		
	2800	OTTA	32 ABS	1755.0	1815.0	85.0	-3.0	-1.5		
	3750	TYKW	5 S	2228.0	2230.7	5.0	3.0	1.0		
	3750	TYKW	29 PBI	2233.0	2233.0	10.0	1.0	.5		
	245	LEAR	47 GB	2306.1	2308.8	2.9	52.0			QL=6 ST=2 TYP=5
	9395	PEKG	45 C	2319.0	2328.4	12.0	17.5	8.6		
2840	PEKG	45 C	2319.0	2328.8	12.0	6.9	3.1			
25	260	ONDR	44 NS	0756.0E	0947.5	454.0D	45.0			
	100	GORK	43 NS	0904.0		62.0		5.0		
	200	GORK	43 NS	0906.0		68.0		5.0		
	100	HIRA	8 S	0140.8	0141.0	.3	530.0			ML
	2950	GORK	1 S	0803.3	0804.0	4.1	1.3	.6		
	204	IZMI	42 SER	0920.2	0946.5	60.0	56.0			
	33	UPIC	42 SER	1032.5	1033.0	49.5				
	29	UPIC	42 SER	1032.5	1033.1	34.0				
	930	BORD	41 F	1120.2	1121.2	1.4	37.0	3.0		
	930	BORD	42 SER	1504.3	1504.5	9.6	41.0	3.0		
	2800	OTTA	21 GRF	1540.0	1555.0	200.0	4.0	2.0		
	2800	OTTA	1 S	1544.5	1546.0	4.0	2.6	1.3		
	930	BORD	41 F	1544.8	1545.8	1.0	12.0	3.0		
	500	HIRA	45 C	2202.3	2204.4	2.7	7.0	2.0		0
2695	PENT	1 S	2218.5	2219.8	2.5	2.0	1.0			
26	200	HIRA	43 NS	0424.0	0516.0	190.0D	10.0	3.0		0
	245	LEAR	43 NS	0433.8	0514.1	341.2D	11.0			QL=6 ST=2 TYP=1
	200	GORK	43 NS	0500.0		113.0D		5.0		
	100	GORK	44 NS	0500.0E		90.0D		5.0		
	260	ONDR	44 NS	0758.0E		382.0D	4.0			
	3750	TYKW	20 GRF	0237.0	0256.0	60.0	2.0	1.0		
	2000	TYKW	20 GRF	0253.0	0256.0	40.0	1.5	0.7		
	3750	TYKW	28 PRE	0347.0	0417.0	30.0	4.0	2.0		
	2840	PEKG	28 PRE	0353.0	0407.3	25.0	7.8	7.4		
	2000	TYKW	28 PRE	0353.0	0418.0	25.0	2.0	1.0		
	9400	TYKW	28 PRE	0400.0	0421.0	21.0	8.0	2.0		
	3750	TYKW	45 C	0417.0	0424.3	11.0	37.0	11.0		
	1000	TYKW	45 C	0418.0	0423.8	12.0	34.0	4.0		
	2840	PEKG	45 C	0418.0	0424.3	11.0	26.9	20.2		
	9395	PEKG	3 S	0418.0	0424.5	11.0	79.7	21.1		
	2000	TYKW	45 C	0418.0	0424.6	11.0	25.0	6.0		
	500	HIRA	42 SER	0418.2	0424.1	7.7	7.0			0
	9400	TYKW	45 C	0421.0	0424.4	7.0	78.0	23.0		
	3750	TYKW	29 PBI	0428.0		60.0	5.0	2.5		
	9400	TYKW	29 PBI	0428.0		55.0	11.0	4.0		
2000	TYKW	29 PBI	0429.0		35.0	2.0	1.0			
9395	PEKG	29 PBI	0429.0	0429.3	12.0	15.3	8.8			
500	HIRA	42 SER	0436.7	0447.0	36.0	12.0			0	

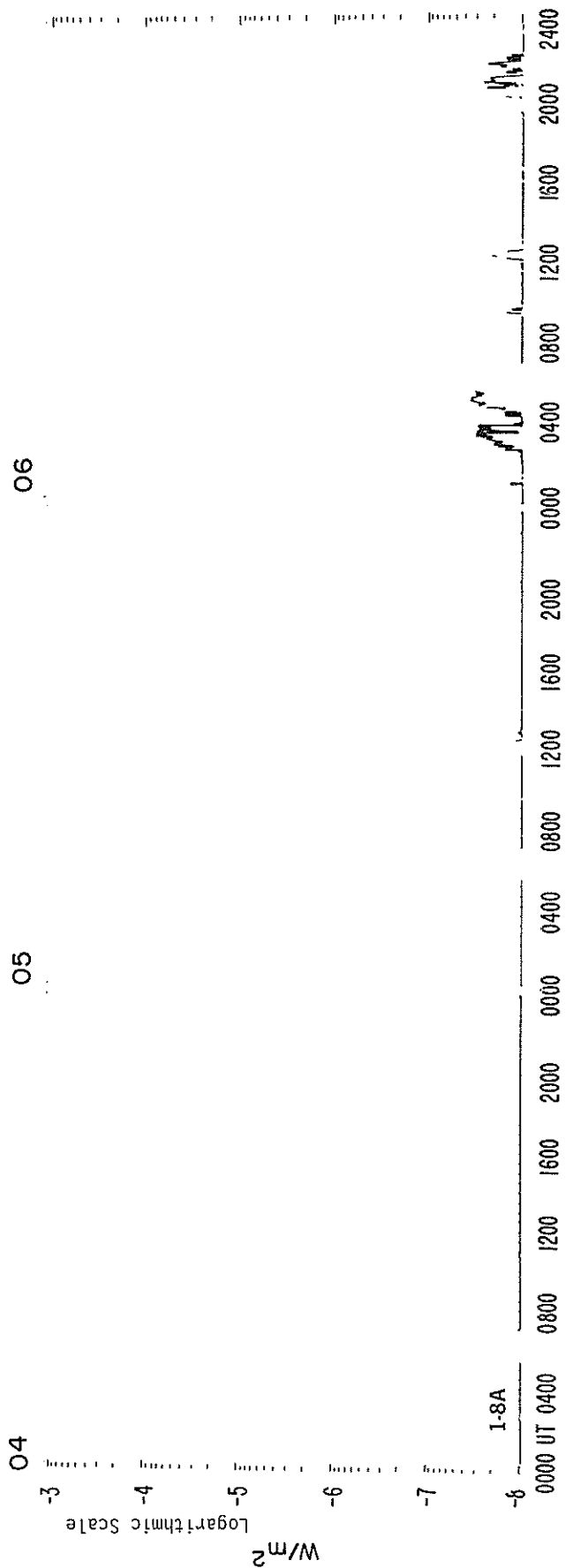
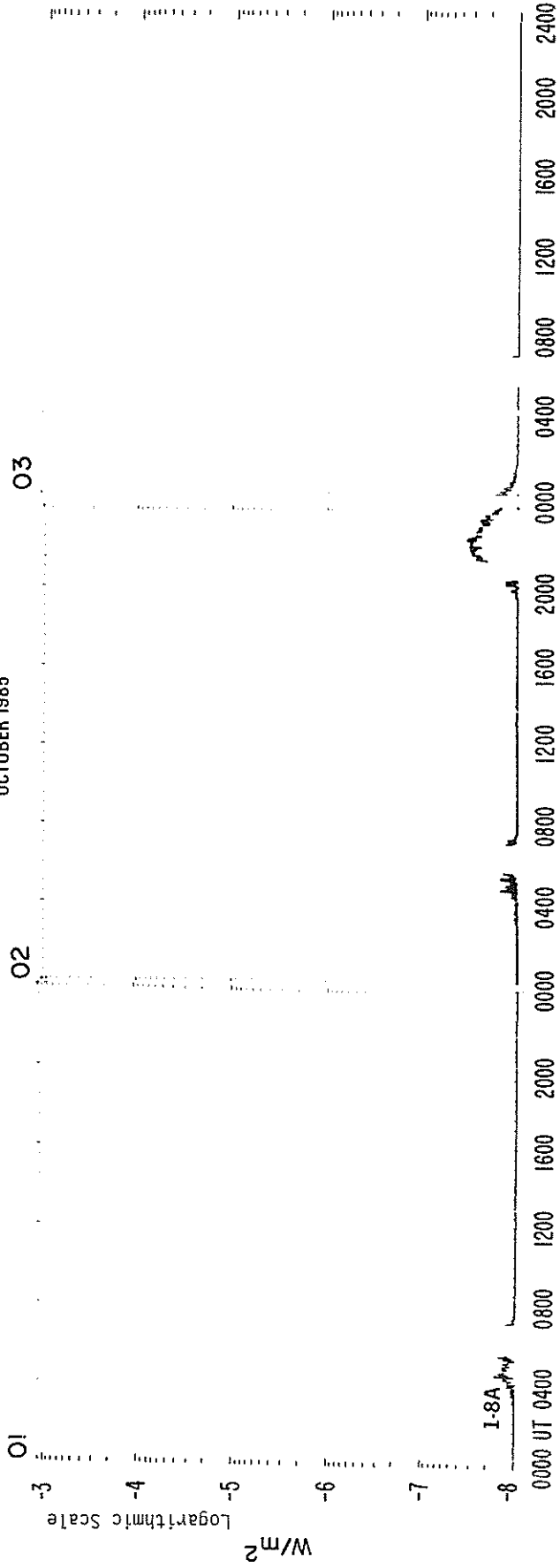
SOLAR RADIO EMISSION  
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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean (W/m <sup>2</sup> Hz)	Int	Remarks
26	204	IZMI	42 SER	0600.0	0620.8	60.0	50.0			
	500	HIRA	8 S	0633.5	0633.8	.4	7.0			0
	2950	GORK	4 S/F	0704.8	0705.7	3.2	2.7			
	3100	CRIM	1 S	0704.9	0705.8	25.0	5.0	3.0		
	3100	CRIM	29 PBI	0707.4	0707.4	55.0	2.0	1.0		
	930	BORD	8 S	0729.0	0729.3	.5	11.0	3.0		
	245	SGMR	47 GB	1355.6	1355.8	.5	219.0			OL=1 ST=2 TYP=5
	2800	OTTA	20 GRF	1430.0	1450.0	30.0	1.2	.6		
	2800	OTTA	20 GRF	1625.0	1635.0	35.0	1.2	.7		
	2800	OTTA	22 GRF	1815.0	1900.0	110.0	1.2	.8		
500	HIRA	8 S	2332.0	2332.4	.7	19.0			0	
27	500	HIRA	42 SER	0011.4	0015.2	7.3	9.0			0
	3750	TYKW	5 S	0331.0	0331.7	3.0	3.0	1.0		
	2950	GORK	1 S	0754.2	0754.6	1.7	.8	0.4		
	3100	CRIM	26 FAL	0910.0	1220.0		5.0			
	260	ONDR	8 S	1016.0	1016.0	.1	2.0			
	2800	OTTA	260 FAL	1555.0	1620.0	25.0	-1.4	-0.7		
	2800	OTTA	27 RF	1645.0		155.0	1.4	1.2		
	2800	OTTA	24 R	1645.0	1715.0	30.0	1.4	.7		
	2800	OTTA	24P R	1715.0		105.0	1.4			
	2800	OTTA	26 FAL	1900.0	1920.0	20.0	-1.4	-0.7		
	2000	TYKW	5 S	2233.6	2234.0	1.0	3.0	1.0		
2000	TYKW	45 C	2358.5	2359.3	2.0	24.0	3.0			
28	500	HIRA	42 SER	0601.7	0607.7	6.3	50.0			0
	410	LEAR	8 S	0607.5	0607.6	1.1	15.0			QL=6 ST=2 TYP=3
	610	LEAR	47 GB	0607.5	0607.6	.8	73.0			QL=6 ST=2 TYP=5
	930	BORD	41 F	0758.6	0759.1	.6	14.0	3.0		
	204	IZMI	3 S	0813.6	0813.8	.6	700.0	200.0		
	2950	GORK	1 S	0918.3	0918.7	1.0	1.0	.5		
	650	GORK	2 S/F	0918.3	0918.9	2.0	2.0			
	950	GORK	1 S	0918.5	0918.8	2.3	.5			
	930	BORD	41 F	1045.0	1045.7	1.0	80.0	3.0		
	808	ONDR	1 S	1256.2	1256.5	.8				
	930	BORD	41 F	1309.2	1309.4	.7	14.0	2.0		
	2800	OTTA	240 R	1600.0	1620.0	20.0	1.8	.9		
	930	BORD	41 F	1603.4	1603.6	.5	33.0	3.0		
	2800	OTTA	20 GRF	1621.0	1640.0	40.0	1.8	1.0		
29	930	BORD	8 S	0811.0	0811.6	.7	18.0	2.0		
	260	ONDR	8 S	1054.0	1054.0	.1	2.0			
	930	BORD	8 S	1102.1	1102.7	.7	57.0	2.0		
	930	BORD	8 S	1122.2	1122.3	.2	38.0	2.0		
	930	BORD	41 F	1131.1	1131.3	.4	12.0	2.0		
	930	BORD	8 S	1214.3	1214.5	.4	24.0	2.0		
	930	BORD	46 C	1606.0	1606.7	1.0	547.0	8.0		
30	930	BORD	8 S	0809.4	0809.7	.6	29.0	2.0		
	930	BORD	41 F	1047.8	1048.0	.5	35.0	3.0		
	930	BORD	8 S	1215.0	1215.2	.2	31.0	2.0		
	930	BORD	8 S	1239.9	1239.9	.3	15.0	2.0		
	930	BORD	41 F	1602.8	1603.2	.5	58.0	3.0		
31	3100	CRIM	26 FAL	0630.0	1220.0		5.0			
	930	BORD	8 S	0812.8	0813.1	.4	31.0	2.0		
	930	BORD	41 F	1001.0	1001.3	.6	45.0	2.0		
	536	ONDR	8 S	1016.0	1016.2	.4	11.0			
	930	BORD	8 S	1104.6	1105.0	.4	199.0	2.0		
	536	ONDR	8 S	1139.0	1139.0	.1	10.0			
	930	BORD	8 S	1249.4	1249.6	.5	119.0	3.0		
930	BORD	41 F	1600.0	1600.7	.6	119.0	4.0			

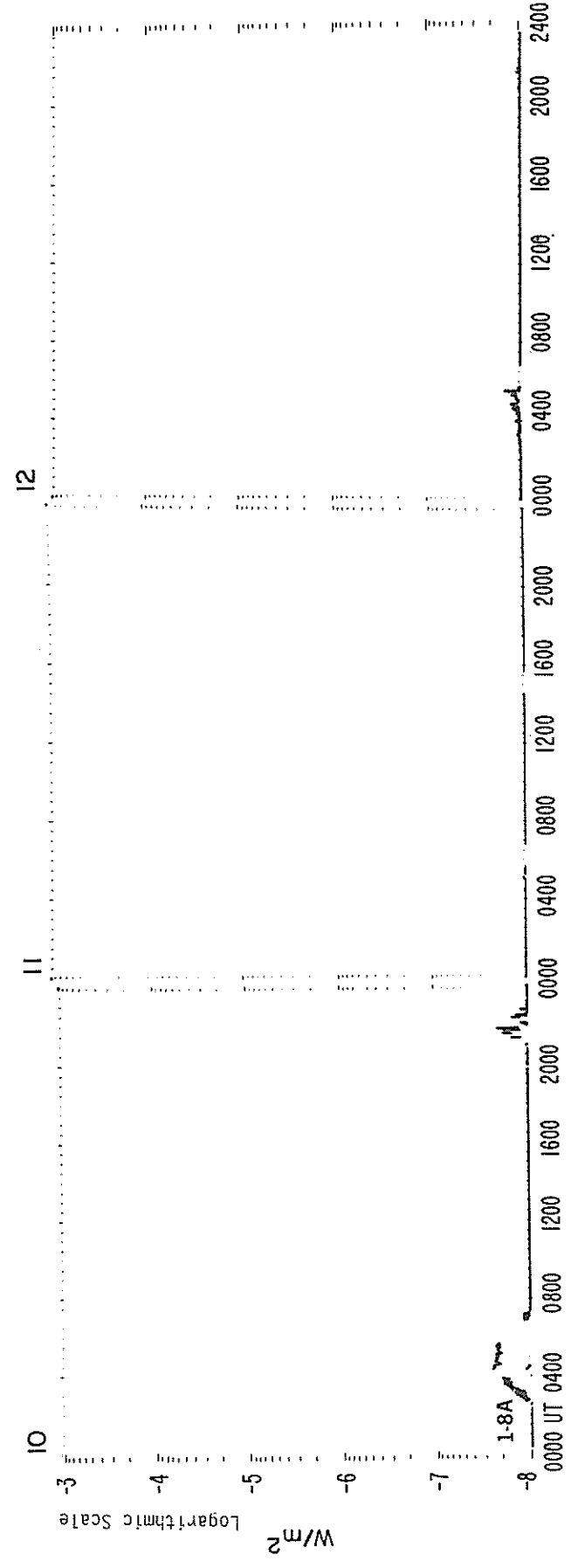
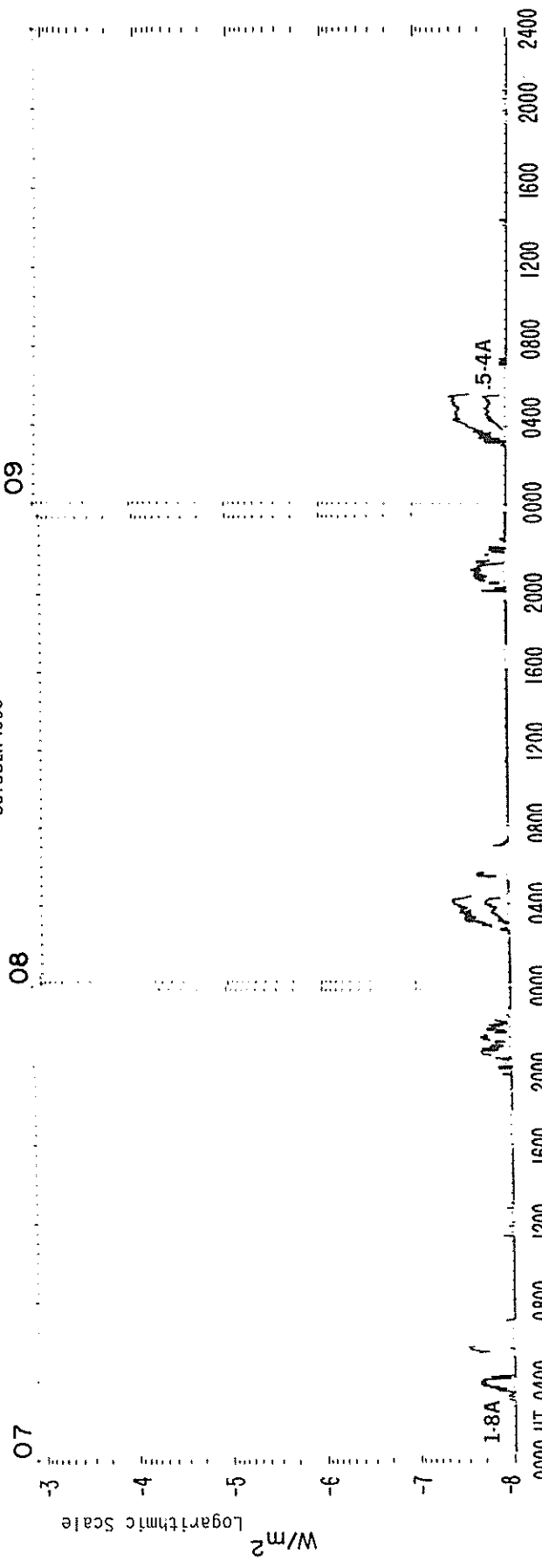
# GOES 6 X-RAYS

OCTOBER 1985



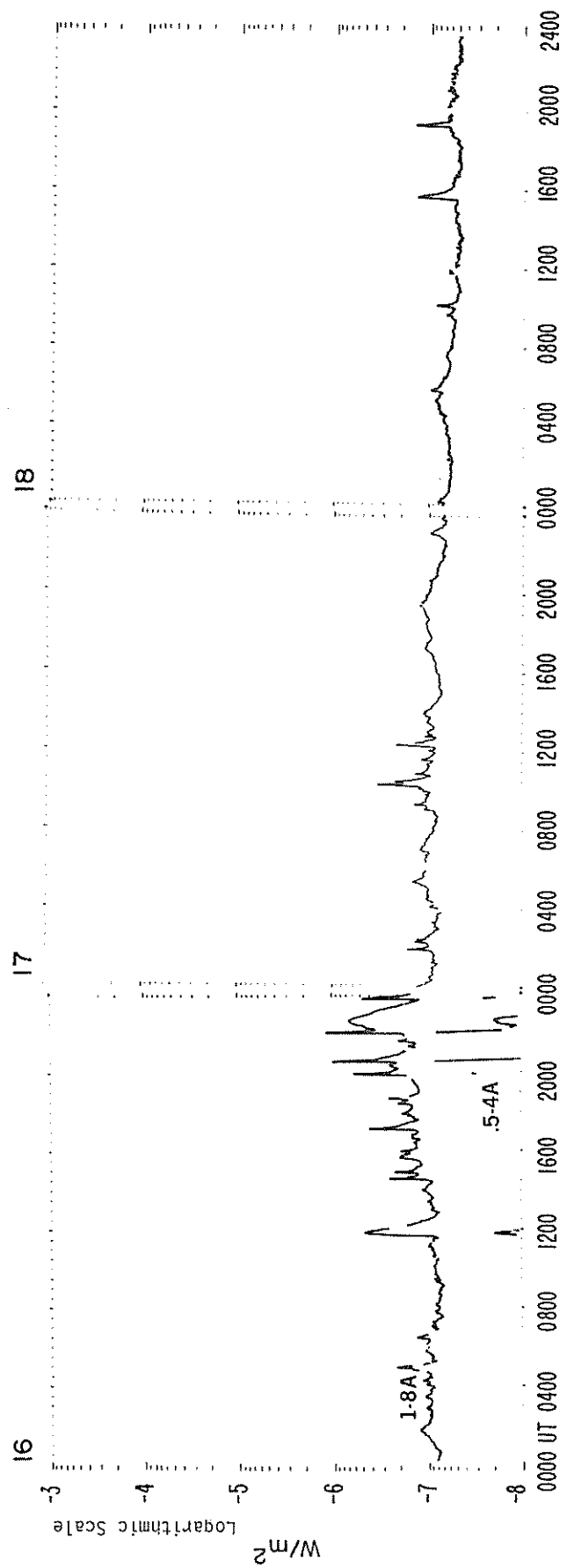
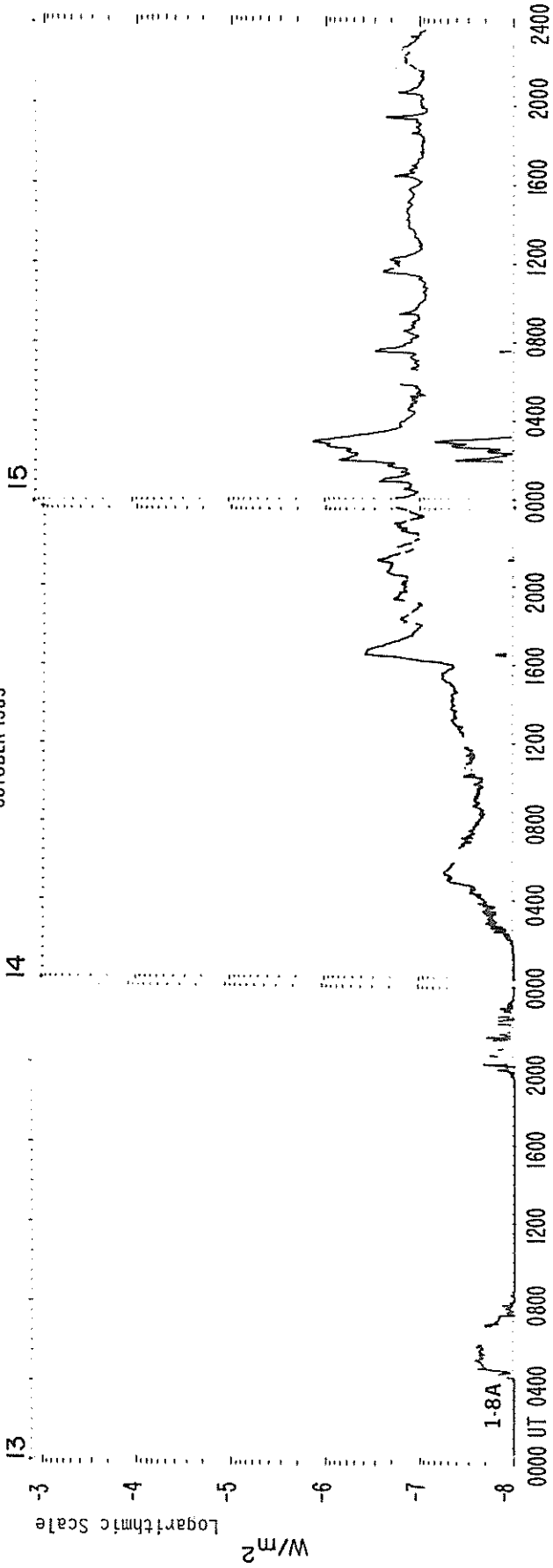
# GOES 6 X-RAYS

OCTOBER 1985



# GOES 6 X-RAYS

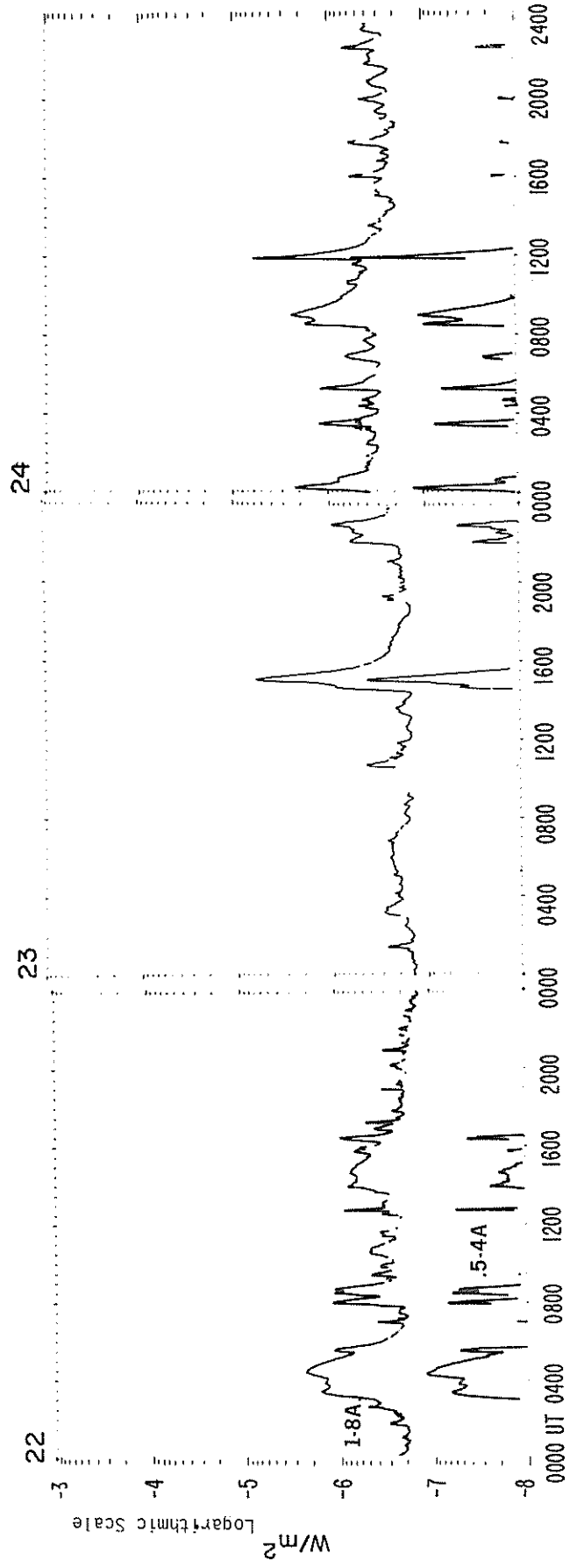
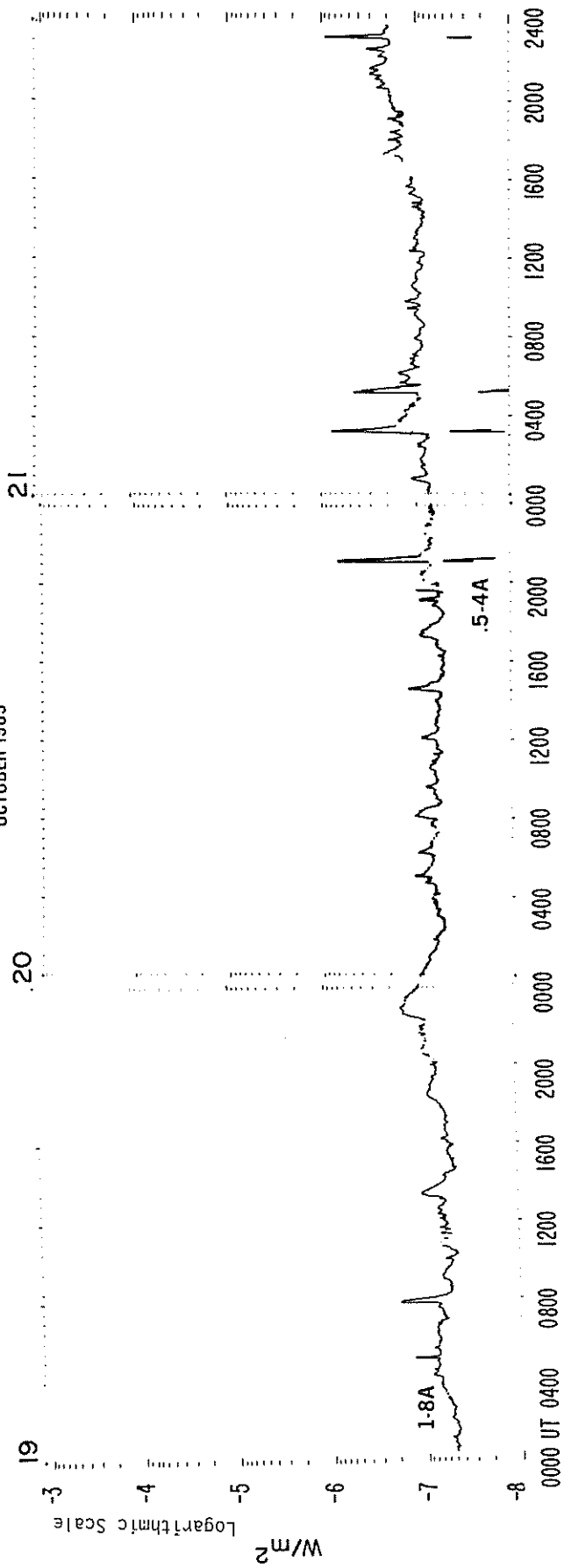
OCTOBER 1985





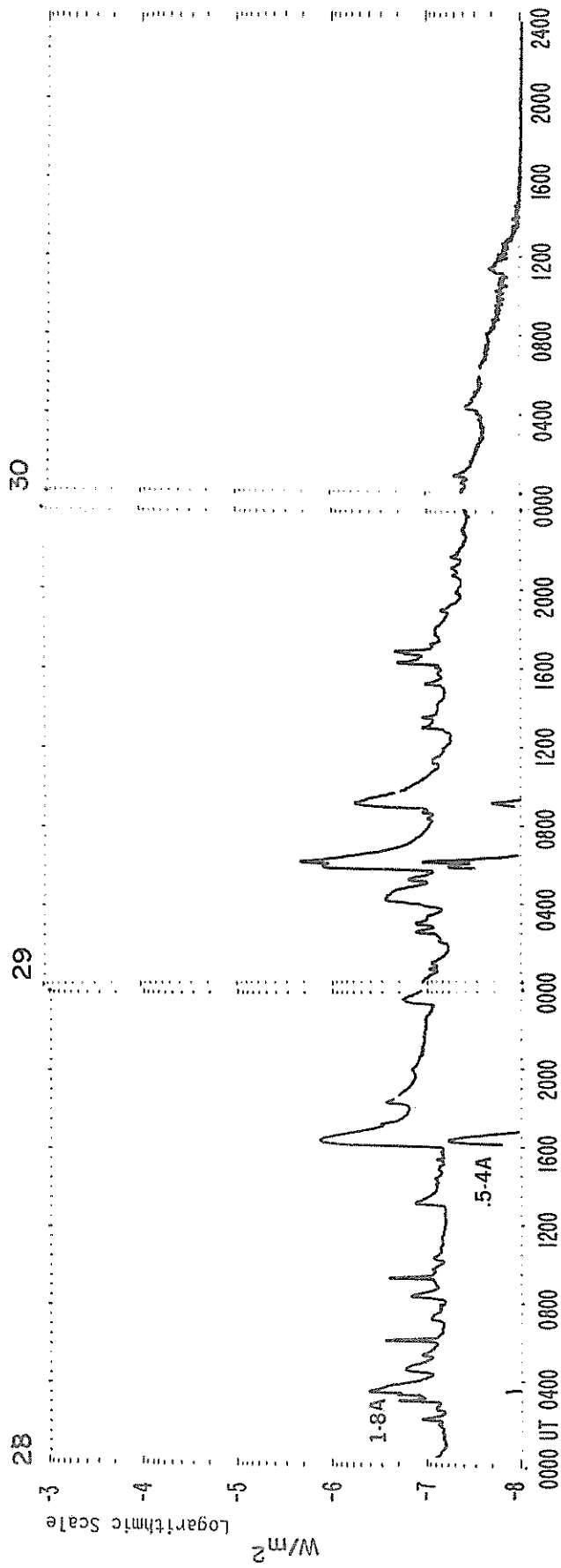
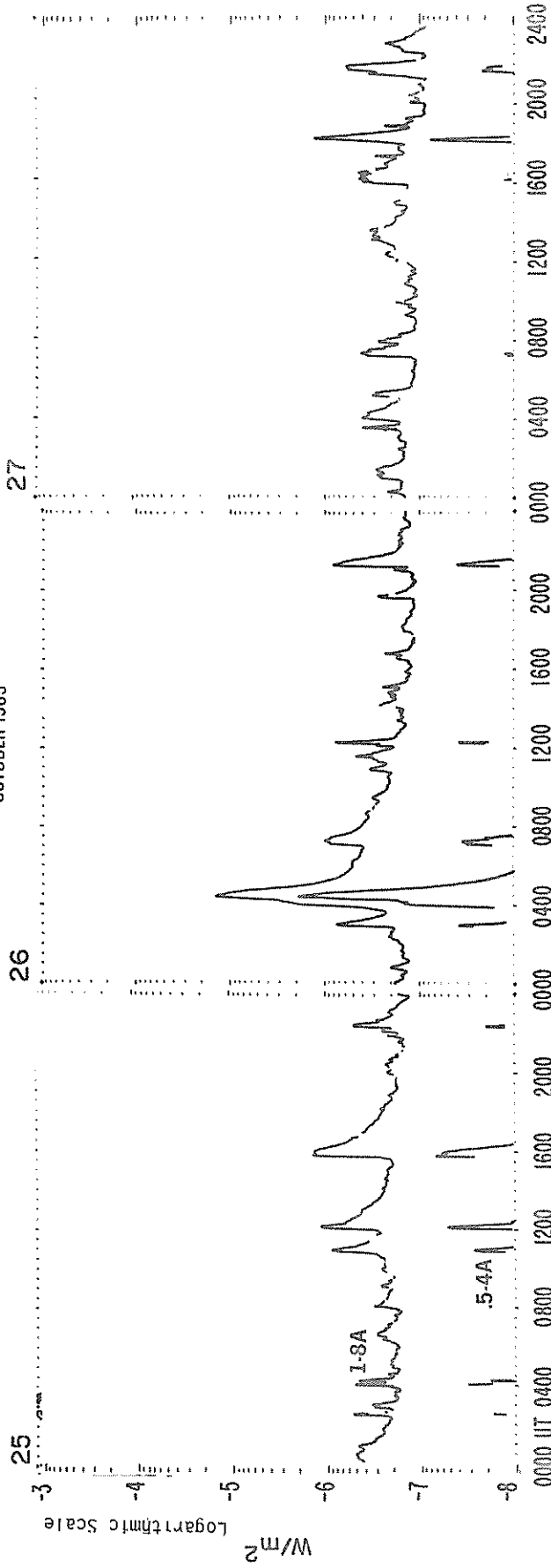
# GOES 6 X-RAYS

OCTOBER 1985



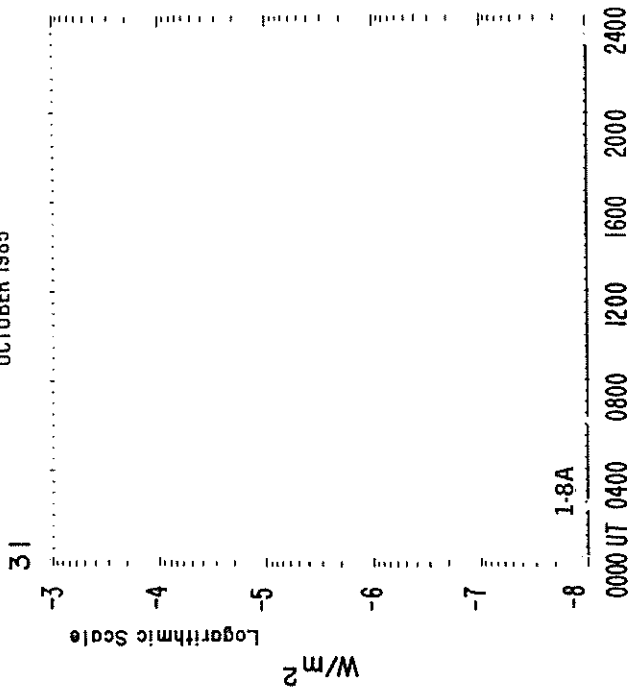
# GOES 6 X-RAYS

OCTOBER 1985



# GOES 6 X-RAYS

OCTOBER 1985



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

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Oct 85

October 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp Opt Xray
14	1626	1633	1655				B4.0
15	0054	0057	0109				B2.7
15	0154	0202	0216				B7.4
15	0254	0257	0259				C1.7
15	0727	0733	0743				B3.1
15	0923	0926	0934				B1.5
15	1128	1136	1148				B2.5
15	1208	1211	1217				B1.9
15	1623	1627	1631				B2.0
15	1918	1924	1928				B2.3
15	2035	2039	2044				B1.7
16	0452	0456	0459				B2.2
16	1138	1150	1202				B4.7
16	1431	1434	1436				B2.5
16	1451	1455	1458				B2.2
16	1703	1708	1711				B4.2
16	1837	1840	1842				B2.8
16	1951	1956	1958				B7.7
16	2032	2035	2037				C1.2
16	2157	2201	2204				C1.6
16	2200	2202	2207				C1.6
16	2344	2344	2352	N06	E70	4698	SF B5.7
17	0150	0154	0157				B1.6
17	1014	1017	1019				B4.4
17	1130	1133	1139				B1.2
17	1213	1219	1224				B2.3
18	1531	1538	1547				B1.5
18	1914	1914	1927	N05	E46	4698	SF B1.5
19	0458	0500	0507	N04	E33	4698	SB B1.5
19	0746	0751	0801				B1.9
20	1428	1437	1443				B1.2
20	1904	1907	1910				B1.1
20	1935	1938	1941				B1.1
20	2106	2112	2116D	N04	E11	4698	SN B7.9
21	0308	0316	0323	N03	E09		SB B8.7
21	0509	0518	0532	N03	E08	4698	SB B5.1
21	0534	0541	0553				B1.4
21	0924	0928	0930				B1.5
21	1219	1222	1224				B1.2
21	1711	1715	1723				B2.6
21	2311	2312	2323	N09	E09	4699	SF B9.4
22	0235	0239	0242				B5.3
22	0318	0323	0336	N09	E13	4699	SF C1.8
22	0529	0533	0544	N07	E13	4699	SF C1.1
22	0655	0700	0703				B3.9
22	0747	0800	0811				C1.1
22	0800E	0840	0900D	N07	E08	4699	SN C1.1
22	0923	0923	0934	N10	W06	4698	SF B4.5
22	1229	1233	1236				B3.5
22	1240	1245	1248				B9.3
22	1354	1357	1409				B7.9
22	1615	1628	1632				B9.7
22	1714	1714	1723	N04	W14	4698	SN B5.3
22	1855	1857	1904	N05	E06	4699	SN B3.5
22	2055	2055	2103	N05	W17	4698	SN B3.2
23	0121	0127	0131				B2.9
23	1034	1042	1051				B4.6
23	1430	1505	1515	N05	W10	4699	1B C6.6
23	2154	2252	2302				B9.9
23	2158	2200	2214	N08	W11	4699	SN B6.2
23	2244	2253	2304	N11	W19	4699	SF B9.6

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp Opt Xray
24	0002	0012	0041	N09	W23	4699	SF C2.3
24	0321	0330	0348	N08	W25	4699	SN C1.3
24	0509	0515	0525	N10	W27	4699	SN C1.3
24	0640	0642	0651	N08	W27	4699	SF B6.4
24	0820	0905	0938D	N08	W28	4699	SF C2.4
24	1148	1154	1158				C6.5
24	1605E	1606	1618	N08	W24	4699	SF B5.9
24	1745	1746	1804	N08	W24	4699	SN B5.8
24	2231	2235	2252	N08	W26	4699	SN B6.7
25	0230	0234	0236				B5.8
25	0401	0405	0408				B6.0
25	0413	0417	0420				B4.7
25	1050	1058	1105				B9.0
25	1200	1210	1218				C1.2
25	1551	1552	1613	N01	W38	4699	SN C1.4
25	2204	2205	2218	S01	W52	4698	SN B2.6
25	2216	2221	2231				B5.2
26	0252	0300	0311				B7.8
26	0359E	0432	0514D	N07	W61	4698	1B M1.8
26	0702	0717	0733				C1.0
26	1131	1134	1138				B4.8
26	1205	1216	1220				B8.6
26	1405	1409	1419				B2.8
26	1503	1506	1511				B2.6
26	1644	1647	1651				B2.3
26	1935	1938	1953	N03	W49	4699	SF B2.8
26	2109	2117	2133				B8.6
27	0055E	0057	0119	N05	W53	4699	SN B2.9
27	0330	0333	0336				B4.2
27	0355	0358	0404	N07	W72	4698	SF B4.3
27	0510E	0510	0520	N04	W72	4698	SN B3.3
27	0706	0716	0735	N07	W74	4698	SF B4.4
27	0749	0754	0803				B2.9
27	1302	1305	1309				B3.5
27	1553	1557	1637	N03	W76	4698	SN B4.7
27	1715	1718	1720				B3.1
27	1755	1810	1818				C1.4
27	1846	1850	1852				B2.6
27	2113	2148	2156				B6.3
27	2228	2258	2309				B2.3
28	0200	0206	0210				B1.2
28	0258	0302	0305				B2.1
28	0316	0331	0349				B4.3
28	0430	0440	0455				B1.8
28	0605	0608	0611				B3.0
28	0817	0825	0833				B1.5
28	0916	0920	0923				B2.8
28	1301	1310	1326				B1.4
28	1601	1625	1645	S01	W89	4699	SF C1.4
28	1710	1713	1717				B3.1
28	1814	1819	1829				B2.9
28	2317	2330	2350				B1.8
29	0228	0234	0242			4699	B1.4
29	0250	0301	0306			4699	B1.5
29	0401	0415	0445				B2.9
29	0510	0515	0523			4699	B1.6
29	0542	0607	0618			4699	C2.3
29	0852	0909	0928			4699	B6.2
29	1254	1258	1307			4699	B1.2
29	1326	1329	1333			4699	B1.2
29	1507	1511	1518			4699	B1.1
29	1609	1617	1622			4699	B2.2
29	1648	1651	1653			4699	B2.3

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Oct 85

Preliminary GOES-6 Data  
Daily Average X-ray Background

November 1984 - October 1985

	1984		1985									
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	B0.1	B1.1	B0.0	B0.2	B0.1	B0.3	B1.6	B0.1	B1.1	B0.5	B0.1	B0.0
2	B0.2	B0.7	B0.0	B0.3	B0.0	B0.3	B1.7	B0.5	B1.0	B0.5	B0.1	B0.0
3	B0.3	B0.7	B0.0	B0.4	B0.0	B0.2	C1.1	B0.7	B0.9	B0.4	B0.1	B0.0
4	B0.3	B0.5	B0.0	B0.2	B0.0	B0.4	B7.7	B0.7	B0.8	B0.4	B0.1	B0.0
5	B0.3	B0.3	B0.0	B0.2	B0.0	B0.3	B0.3	B1.8	B1.0	B0.4	B0.2	B0.0
6	B0.3	B0.2	B0.0	B0.2	B0.0	B0.1	B0.8	B2.9	B1.1	B0.4	B0.2	B0.0
7	B0.1	B0.2	---	B0.3	B0.0	B0.0	B1.5	B1.0	B3.2	B0.6	B0.1	B0.1
8	B0.1	B0.2	B0.0	B0.4	B0.1	B0.0	B1.2	B1.0	B4.1	B0.6	B0.1	B0.0
9	B0.2	B0.5	B0.0	B0.3	B0.0	B0.0	B1.8	B1.0	B3.1	B0.5	B0.0	B0.0
10	B0.4	B1.0	B0.0	B0.3	B0.0	B0.0	B1.6	B1.2	B4.1	B0.3	B0.0	B0.0
11	B0.2	B1.0	B0.0	B0.2	B0.1	B0.0	B1.9	B1.0	B3.2	B0.2	B0.0	B0.0
12	B0.2	B0.6	B0.0	B0.1	B0.1	B0.0	B1.2	B1.0	B3.5	B0.1	B0.1	B0.0
13	B0.2	B0.4	B0.3	B0.1	B0.1	B0.0	B2.0	B0.9	B3.4	B0.0	B0.5	B0.0
14	B0.2	B0.5	B0.4	B0.1	B0.1	B0.0	B2.0	B0.7	B1.5	B0.0	B0.2	B0.3
15	B0.2	B0.6	B0.4	B0.1	B0.1	B0.0	B1.9	B0.7	B0.7	B0.0	B0.1	B1.2
16	B0.2	B0.5	B0.5	B0.1	B0.0	B0.0	B2.1	B0.6	B0.2	B0.0	B0.1	B0.9
17	B0.1	B0.5	B1.0	B0.2	B0.1	B0.0	B1.9	B0.5	B0.2	B0.0	B0.0	B1.0
18	B0.2	B0.3	B0.7	B2.3	B0.2	B0.1	B1.8	B0.3	B0.1	B0.0	B0.0	B0.5
19	B0.5	B0.3	B0.6	B1.8	B0.3	B0.1	B1.3	B0.2	B0.1	B0.0	B0.1	B0.6
20	B0.4	B0.2	B4.7	B0.8	B0.2	B0.1	B1.3	B0.1	B0.1	B0.0	B0.1	B0.7
21	B0.5	B0.3	B9.5	B0.5	B1.9	B1.0	B1.4	B0.1	B0.1	B0.1	B0.3	B0.9
22	B0.6	B0.2	B2.9	B0.5	B0.7	B2.9	B0.9	B0.1	B0.1	B0.1	B0.0	B2.4
23	B0.6	B0.2	B2.7	B0.2	B0.7	B3.8	B0.8	B5.5	B0.1	B0.4	B0.0	B1.8
24	B1.0	B0.2	B1.3	B0.1	B0.5	C1.0	B0.8	B1.3	B0.1	B0.1	B0.0	B3.5
25	B1.1	B0.2	B0.8	B0.1	B0.4	B5.5	B0.7	B0.1	B0.5	B0.1	B0.0	B3.4
26	B0.9	---	B0.6	B0.1	B0.4	B2.5	B0.5	B0.1	B1.0	B0.1	B0.1	B2.3
27	B1.4	B0.2	B0.1	B0.1	B0.3	B1.2	B0.5	B0.2	B1.0	B0.1	B0.0	B1.4
28	B1.0	B0.2	B0.0	B0.1	B0.4	B1.0	B0.4	B0.3	B0.8	B0.1	B0.0	B0.8
29	B0.4	B0.1	B0.0		B0.3	B1.4	B0.4	B0.9	B0.8	B0.1	B0.1	B0.7
30	B0.4	B0.2	B0.0		B0.3	B0.9	B0.3	B0.7	B0.8	B0.1	B0.0	B0.1
31		B0.1	B0.0		B0.3		B0.0		B0.7	B0.5		B0.0

MASS EJECTIONS FROM THE SUN

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Oct 85

OCTOBER 1985

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R <sub>0</sub>		
WEND	Oct 28	1302	1312	U 1322	278	1.0	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES

- D = event ended after tabulated time
- E = event began before the tabulated time
- U = uncertain time

REPORTING STATIONS

WEND = Wendelstein

TYPE OF EVENT

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

mes

## ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1985

Type	Day	Observed UT		Lat CMD	Imp	Type	Sta	Remarks
		Start	End					
ADF	Oct 01	0000E	0535D	N05 E26	1	C	CULG	48 degrees filament.
BSL	Oct 01	0805	0805D	N80 W90	1-	C	CATA	
BSL	Oct 01	0940	0945	N69 E90	1-	C	CATA	
BSL	Oct 01	0955	1000	N25 W90	1-	C	CATA	
BSL	Oct 01	0955	1015D	N48 W90	1-	C	CATA	
BSL	Oct 01	1100	1110	N80 W90	1-	C	CATA	
APR	Oct 01	1125	1300	S30 W90		V	ATHN	
APR	Oct 01	1125	1300	N18 W90		V	ATHN	
BSL	Oct 01	1210	1215	N88 W90	1-	C	CATA	
BSL	Oct 01	1235	1240	S65 E90	1-	C	CATA	
EPL	Oct 02	0544	0615	N15 W90		V	ATHN	
BSL	Oct 02	0715E	0740	N45 W90	1-	C	CATA	
BSL	Oct 02	0750	0755	S19 E90	1-	C	CATA	
BSL	Oct 02	0815	0835	S87 E90	1-	C	CATA	
BSL	Oct 02	0830	0840	N21 W90	1-	C	CATA	
BSL	Oct 02	0840	0845D	N09 W90	1-	C	CATA	
BSL	Oct 02	0845	0845D	S84 W90	1-	C	CATA	
BSL	Oct 02	0920	0925	S86 E90	1-	C	CATA	
BSL	Oct 02	1125	1145	N09 W90	1-	C	CATA	
BSL	Oct 03	0800	0805	N55 W90	1-	C	CATA	
BSL	Oct 03	0815	0835	N49 E90	1-	C	CATA	
BSL	Oct 03	1015	1030	S09 E90	1-	C	CATA	
BSL	Oct 03	1120	1130	N70 W90	1	C	CATA	
BSL	Oct 04	0805	0815	N54 W90	1-	C	CATA	
BSL	Oct 04	0830	0840	N87 W90	1-	C	CATA	
BSL	Oct 04	0840	0845	S74 E90	1-	C	CATA	
BSL	Oct 04	0845	0910	N17 E90	1-	C	CATA	
BSL	Oct 04	0855	0905	S89 E90	1-	C	CATA	
BSL	Oct 04	0920	0935	N56 W90	1-	C	CATA	
BSL	Oct 04	1150	1210	S13 W90	1-	C	CATA	
BSL	Oct 04	1240	1245D	N48 W90	1-	C	CATA	
BSL	Oct 05	0755	0805	N45 E90	1-	C	CATA	
BSL	Oct 05	0950	1000	N69 E90	1-	C	CATA	
SDF	Oct 05	1230E	0610D	S50 E13	1	C	CATA	
SDF	Oct 05	1230E	0610D	S50 E30	1	C	CATA	
BSL	Oct 06	0715E	0730	S15 W90	1-	C	CATA	
BSL	Oct 06	1025	1035	N33 W90	1-	C	CATA	
BSL	Oct 07	0935	0945	S87 E90	1-	C	CATA	
APR	Oct 08	0640	1500	N20 W90		V	ATHN	
BSL	Oct 08	0800	0820	S17 E90	1-	C	CATA	
BSL	Oct 08	0810	0820	N89 W90	1-	C	CATA	
BSL	Oct 08	0830	0840	N31 W90	1-	C	CATA	
BSL	Oct 08	1120	1150	N87 W90	1-	C	CATA	
APR	Oct 09	0730	1300	S33 E90		V	ATHN	
BSL	Oct 09	0805	0810	S72 E90	1-	C	CATA	
BSL	Oct 09	0825E	0845	S55 E90	1-	C	CATA	
BSL	Oct 09	1235E	1245	N64 W90	1-	C	CATA	
APR	Oct 10	0644	1400	S30 E90		V	ATHN	
BSL	Oct 10	0820	0830	S80 E90	1-	C	CATA	
BSL	Oct 10	0820	0830	S67 W90	1-	C	CATA	
BSL	Oct 10	0830	0835	S87 W90	1-	C	CATA	
BSL	Oct 10	0920	0930	N85 W90	1-	C	CATA	
BSL	Oct 10	1025	1045	N58 W90	1-	C	CATA	
BSL	Oct 10	1030	1045	S24 E90	1-	C	CATA	
BSL	Oct 10	1040	1050	S74 E90	1-	C	CATA	
BSL	Oct 10	1050	1105	S53 W90	1-	C	CATA	
BSL	Oct 10	1135	1155	N26 W90	1-	C	CATA	

## ACTIVE PROMINENCES AND FILAMENTS

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Oct 85

OCTOBER 1985

Type	Day	Observed UT		Lat	CMD	Imp	Type	Sta	Remarks
		Start	End						
BSL	Oct 11	0720	0735	S09	E90	1-	C	CATA	
BSL	Oct 11	0725	0735	S89	W90	1-	C	CATA	
BSL	Oct 11	0735	0755	N59	W90	1-	C	CATA	
BSL	Oct 11	0740	0745	S79	E90	1-	C	CATA	
BSL	Oct 11	0755	0800	N87	W90	1-	C	CATA	
BSL	Oct 11	0855	0910	N47	E90	1-	C	CATA	
BSL	Oct 11	0915	0930	S01	W90	1-	C	CATA	
BSL	Oct 11	0940	0955	N30	E90	1-	C	CATA	
BSL	Oct 11	1025	1035	N08	E90	1-	C	CATA	
BSL	Oct 11	1130E	1130D	S73	W90	1-	C	CATA	
BSL	Oct 12	0810E	0815	S10	E90	1-	C	CATA	
BSL	Oct 12	0815	0830	N18	E90	1-	C	CATA	
BSL	Oct 12	1100	1145	S43	E90	1-	C	CATA	
BSL	Oct 12	1100	1145	S68	E90	1	C	CATA	
SDF	Oct 12	1250E	0600D	S40	E58	1	C	CATA	
BSL	Oct 13	0625	0640	N17	W90	1-	C	CATA	
BSL	Oct 13	0650E	0700	N52	W90	1-	C	CATA	
BSL	Oct 13	0715	0725	N68	W90	1-	C	CATA	
SDF	Oct 14	1230E	0715D	N42	W48	1	C	CATA	
BSL	Oct 15	0905	0915	N61	E90	1-	C	CATA	
ASR	Oct 15	0945	1400	N03	E90		V	ATHN	
BSL	Oct 15	1000	1015	S81	E90	1-	C	CATA	
BSL	Oct 15	1110	1120D	N48	W90	1-	C	CATA	
BSL	Oct 15	1135	1145D	N67	E90	1-	C	CATA	
SDF	Oct 16	1235E	0735D	S21	W01	1	C	CATA	
BSL	Oct 17	0750E	0810	N05	W90	1-	C	CATA	
BSL	Oct 17	0900	0910	N62	E90	1-	C	CATA	
BSL	Oct 17	0900	0910	N76	W90	1-	C	CATA	
BSL	Oct 17	0940	0950	S17	W90	1-	C	CATA	
BSL	Oct 17	0940	1005	N23	W90	1-	C	CATA	
BSL	Oct 17	1000	1010	N58	W90	1-	C	CATA	
BSL	Oct 17	1125	1125D	N46	W90	1-	C	CATA	
BSL	Oct 17	1135E	1150	N72	E90	1-	C	CATA	
BSL	Oct 17	1210	1215	N63	W90	1-	C	CATA	
BSL	Oct 17	1210	1215	S87	E90	1-	C	CATA	
BSL	Oct 18	0900	0905	S80	E90	1-	C	CATA	
BSL	Oct 18	1025E	1250D	N12	W90	1-	C	CATA	
BSL	Oct 18	1105	1110	N18	W90	1-	C	CATA	
BSL	Oct 19	0815E	0830	N38	W90	1-	C	CATA	
AFS	Oct 19	0915	1300	N05	E38		V	ATHN	
BSL	Oct 19	1025	1030D	S57	W90	1-	C	CATA	
DSD	Oct 19	1100	1205	N05	E30	1-	C	CATA	
BSL	Oct 19	1235	1240	S59	E90	1-	C	CATA	
AFS	Oct 20	0615	1430	N08	E20		V	ATHN	
AFS	Oct 20	0615	1430	N06	E38		V	ATHN	
ADF	Oct 20	0615	1430	N02	E01		V	ATHN	
BSL	Oct 20	0720	0730	S78	E90	1-	C	CATA	
AFS	Oct 20	0745	1430	N05	E34		V	ATHN	
DSD	Oct 20	0800	1430	N08	E35		V	ATHN	
BSL	Oct 20	1030E	1035	N50	W90	1-	C	CATA	
BSL	Oct 20	1035	1040	N73	E90	1-	C	CATA	
BSL	Oct 20	1040	1050	N68	W90	1-	C	CATA	
BSL	Oct 20	1220E	1225D	N08	E90	1-	C	CATA	



ACTIVE PROMINENCES AND FILAMENTS

OCTOBER 1985

Type	Day	Observed UT		Lat CMD	Imp	Type	Sta	Remarks
		Start	End					
AFS	Oct 21	0920	1330	N02 E24		V	ATHN	
ADF	Oct 21	0920	1330	N02 E03		V	ATHN	
AFS	Oct 21	1150	1330	N07 E18		V	ATHN	
DSD	Oct 21	1200	1220	S01 E02	2	C	CATA	
BSL	Oct 21	1210	1230	S12 W90	1	C	CATA	
BSL	Oct 22	0950E	0950D	N86 E90	1-	C	CATA	
ADF	Oct 22	1001	1400	N03 W08		V	ATHN	
BSL	Oct 22	1040E	1045	S79 E90	1-	C	CATA	
BSL	Oct 22	1105	1110D	N78 E90	1-	C	CATA	
BSL	Oct 22	1110	1110D	N75 W90	1-	C	CATA	
BSL	Oct 22	1125	1130	S02 E90	1-	C	CATA	
BSL	Oct 22	1140	1155	S14 W90	1-	C	CATA	
ASR	Oct 22	1311	1400	S10 E90		V	ATHN	
BSL	Oct 23	0745	0750	S63 W90	1-	C	CATA	
BSL	Oct 23	0905	0930	S57 E90	1-	C	CATA	
BSL	Oct 23	0920	0930	S67 E90	1-	C	CATA	
BSL	Oct 23	1050	1100	S48 E90	1-	C	CATA	
BSL	Oct 24	0750	0800	N78 W90	1-	C	CATA	
BSL	Oct 24	0920	0930	N65 E90	1-	C	CATA	
BSL	Oct 24	0920	0930	S88 E90	1-	C	CATA	
BSL	Oct 24	1010	1010D	S56 E90	1-	C	CATA	
BSL	Oct 24	1020E	1025D	N55 W90	1-	C	CATA	
BSL	Oct 25	0800	0820	N53 W90	1-	C	CATA	
BSL	Oct 25	0910	0930	S65 E90	1-	C	CATA	
BSL	Oct 25	0925	0945	S56 E90	1-	C	CATA	
BSL	Oct 25	0945	0950D	N14 W90	1-	C	CATA	
BSL	Oct 25	1120	1210	S64 W90	1	C	CATA	
ADF	Oct 25	1215	1345	N06 W45		V	ATHN	
ADF	Oct 25	1215	1345	N04 W49		V	ATHN	
ADF	Oct 25	1215	1345	N07 W46		V	ATHN	
DSD	Oct 27	0720	1300	N06 W59		V	ATHN	
APR	Oct 27	0730	1300	N06 W90		V	ATHN	
APR	Oct 27	0730	1300	N15 W90		V	ATHN	
ASR	Oct 29	0510	0654	N06 W90		V	ATHN	
APR	Oct 29	0630	1400	N30 W90		V	ATHN	
ASR	Oct 29	0715	1400	N05 W90		V	ATHN	
AFS	Oct 31	0750	1200	S10 E15		V	ATHN	
BSL	Oct 31	0805	0815	N15 E90	1-	C	CATA	
BSL	Oct 31	0805	0815	N23 W90	1-	C	CATA	
APR	Oct 31	0905	1435	S45 W90		V	ATHN	
BSL	Oct 31	1045	1055	S68 W90	1-	C	CATA	

BSL = Bright surge at limb.  
 ADF = Active dark filament.  
 AFS = Active filament system.  
 APR = Active prominence region at limb.

ASR = Active surge region.  
 DSD = Dark surge on disk.  
 EPL = Eruptive prominence at limb.  
 SDF = Sudden disappearance of filament.

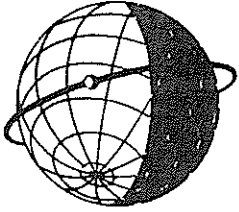
ATHN = Athens  
 BUCA = Bucharest

CATA = Catania  
 CULG = Cuijoora

KODA = KodaiKANal  
 MANI = Manila

WEND = Wendelstein

For more detail and information about Remarks, see SGD Supplement.



**WORLD DATA CENTER A**  
**FOR**  
**SOLAR-TERRESTRIAL PHYSICS**



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

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