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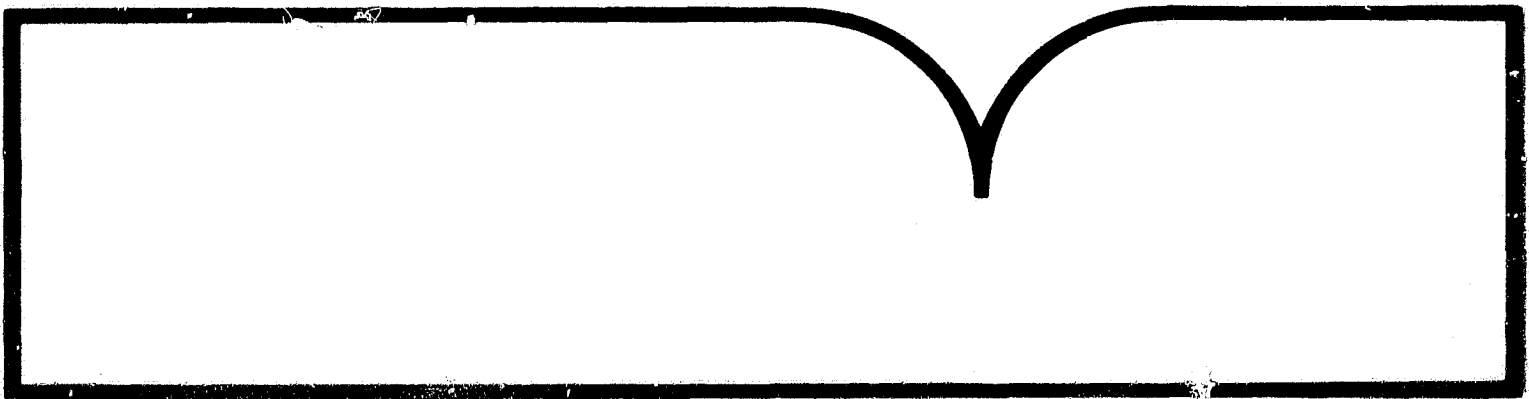
Solar-Geophysical Data Number 497, January 1986  
Part 2 (Comprehensive Reports)  
Data for July 1985, and Miscellaneous

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Boulder, CO

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Washington, DC

Jan 86



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JANUARY 1986 NUMBER 497 -- Part II

# Solar-Geophysical Data comprehensive reports



Data for July 1985, and Miscellanea

Explanation of Data Reports Issued as Number 489 (Supplement) May 1985



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**Solar - Geophysical Data**

**Part II (Comprehensive Reports)**

NO. 497 JANUARY 1986

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JULY 1985

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

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(Solar flares, Solar radio bursts at fixed frequencies,  
Solar x-ray radiation from GOES satellite, Mass ejections  
from the sun, Active prominences and filaments);  
Miscellaneous data--(Meudon carte synoptique 10 April - 13  
May 1985, Number of solar flares August 1966 - July 1985).

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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 497

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Jul 85

H - ALPHA SOLAR FLARES

JULY 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0001	CULG	01	0203	0215	0235	S05	E58	4670	07	5.4	32	SN			C	70	1.4		
0002	CULG	01	0508	0512	0522	S04	E55	4670	07	5.3	14	SF			C	20	.4	D	
0003	RAMY	01	1404	1405	1419	S13	E75	4674B	07	7.2	15	SF		3	C				
		01	1619		1629	No Flare Patrol													
		01	1717		1741	No Flare Patrol													
0004		01	17404	17413	1752	S06	E48	4670	07	5.3	12	SN				31			
	HOLL	01	1740	1741	1750	S06	E48	4670	07	5.3	10	SN		2	C	34			
	RAMY	01	1744	1744	1754	S07	E48	4670	07	5.3	10	SF		3	C	28			
		01	1810		1836	No Flare Patrol													
		01	1915		1953	No Flare Patrol													
		01	1959		2029	No Flare Patrol													
		01	2050		2108	No Flare Patrol													
0005	CULG	01	2245	2259	2311	S04	E45	4670	07	5.3	26	SF			C	60	.9	D	
0006	PALE	02	0051E	0051U	0053	S09	E41	4670	07	5.1	20	SF		2	C	29			
0007	LEAR	02	0426	0519	0545	S12	E69	4671	07	7.4	79	SF		3	C	54			
0008		02	0612*	0619*	0654	S12	E66	4671	07	7.2	42	SN				44	.3		
	LEAR	02	0612	0619	0704	S12	E67	4671	07	7.3	52	SF		3	C	41			
	ATHN	02	0633	0636	0643	S13	E65	4671	07	7.2	10	SN		3	V	0636	48	1.3	
0009	KHAR	02	0730	0732	0738	S11	E69	4671	07	7.5	8	SF			V	0730		D	
0010	HTPR	02	1014	1022	1038	S07	E40	4670	07	5.4	24	SN			C	1022	20	.3	
0011		02	11073	11129	1212	S14	E63	4671	07	7.2	65	SN	C 1.8			92	2.0	E	
	HTPR	02	1107	1121	1205	S15	E61	4671	07	7.1	58	1B			C	1121	120	2.4	
	ATHN	02	1110	1112	1220	S13	E64	4671	07	7.3	70	SN		3	V	1112	64	1.7	
	RAMY	02	1121E		1133D	S14	E63	4671	07	7.2	120	SF	C 1.8	3	C				
0012		02	1651*	1701*	1728	S14	E59	4671	07	7.2	37	SN				66	1.4	EF	
	RAMY	02	1651	1709	1723	S14	E60	4671	07	7.2	32	SF		3	C	80			
	HTPR	02	1657	1701	1735	S15	E59	4671	07	7.2	38	SB			C	1701	70	1.4	
	KANZ	02	1659	1703	1728	S14	E61	4671	07	7.3	29	SN		2				E	
	HOLL	02	1703E	1703U	1725	S14	E57	4671	07	7.0	22D	SN		3	C	76		F	
	PALE	02	1722	1722	1732	S15	E58	4671	07	7.1	10	SF		1	C	40			
		02	1858		1934	No Flare Patrol													
0013		02	2056	2116*	2310	S14	E57	4671	07	7.2	134	2B	M 4.5			328	5.2	EFK	
	PALE	02	2056	2116	2310	S15	E56	4671	07	7.1	134	1N		3	C	218		K	
	PALE	02	2056	2133U	2310	S15	E56	4671	07	7.1	134	2B	M 4.5	3	C	516		FEK	
	CULG	02	2150E	2152	2347U	S13	E60	4671	07	7.4	117U	2B			P	250	5.7	E	
		02	2124		2135	No Flare Patrol													
0014	CULG	03	0245	0248	0252	S15	E57	4671	07	7.4	7	SF			C	70	1.4		
0015	HTPR	03	0550E		0625	S13	E54	4671	07	7.3	35D	SF			C	0555	30	.5	
0016	KANZ	03	0937	0945	0956	S12	E54	4671	07	7.5	19	SF		2					
0017		03	1403	1407	1424	S12	E54	4671	07	7.6	21	SF				20	.3		
	KANZ	03	1403	1407	1424	S13	E53	4671	07	7.6	21	SF		2					
	HTPR	03	1423E		1504D	S12	E55	4671	07	7.7	41D	SF			C	1423	20	.3	
0018		03	16125	1614*	1643	S14	E53	4671	07	7.7	31	SF				30	.5	E	
	KANZ	03	1612	1614	1633	S16	E54	4671	07	7.8	21	SF		2					
	KANZ	03	1617	1625	1645	S13	E51	4671	07	7.5	28	SF		2					
	WEND	03	1617	1626	1650	S13	E54	4671	07	7.7	33	SN			C	1626	30	.5	

H - ALPHA SOLAR FLARES

5  
Jul 65

JULY 1965

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)		
0019	RAMY	03	1844	1844	1856	S12	E50	4671	07	7.5	12	SF						37		
0020	LEAR	04	0213	0214	0219	S11	E46	4671	07	7.5	6	SF						27		F
0021	ABST	04	0716	0718	0721	S19	E42	4672	07	7.5	5	1F				0718		140	2.1	E
0022	HTPR	04	0759		0804D	S13	E43	4671	07	7.6	50	SF				0801		30	.4	E
0023		04	0903	0913	0917	S12	E38	4671	07	7.2	14	SN						64	.9	F
	LEAR	04	0903	0913	0913D	S11	E38	4671	07	7.2	100	SF						63		F
	ATHN	04	0910E	0914U	0917	S14	E38	4671	07	7.2	70	SN				0914		64	.9	
0024	WEND	04	1212	1215	1240	S13	E40	4671	07	7.5	28	3F						44	.6	
0025	RAMY	04	1213	1216	1235	S18	E39	4672	07	7.5	22	SF						35		F
0026		04	21107	21171	2120	S18	E34	4672	07	7.5	10	SN						32		
	HOLL	04	2110	2117	2120	S18	E35	4672	07	7.5	10	SN						42		
	PALE	04	2117	2118	2120	S19	E34	4672	07	7.5	3	SF						23		
		04	2322		2325	No Flare Patrol														
0027		05	0245*	03247	0339	S18	E30	4672	07	7.4	54	SN						36	.7	DF
	PEKG	05	0245	0324	0339	S19	E31	4672	07	7.5	54	SN				0324		30	.7	D
	LEAR	05	0329	0331	0339	S17	E30	4672	07	7.4	10	SF						22		F
0028	ABST	05	0504E	0510	0615D	S20	E30	4672	07	7.5	71D	SN						87	1.1	D
0029	HTPR	05	0937	0939	0958	S20	E27	4672	07	7.5	21	SB						90	1.0	EV
0030		05	11348	11442	1208	S19	E25	4672	07	7.4	34	SB						36	.4	E
	RAMY	05	1134	1144	1213	S18	E25	4672	07	7.4	39	SN						32		
	HTPR	05	1142	1146	1202	S20	E25	4672	07	7.4	20	SB				1146		40	.4	E
0031		05	13452	13494	1408	S19	E24	4672	07	7.4	23	SN						43	.3	
	HTPR	05	1345	1349	1405	S20	E24	4672	07	7.4	20	SB				1349		30	.3	
	RAMY	05	1347	1352	1410	S18	E24	4672	07	7.4	23	SN						37		
	HOLL	05	1352E	1353	1419D	S18	E24	4672	07	7.4	23D	SF						42		
0032		05	17035	17081	1714	S18	E23	4672	07	7.5	11	SF						23	.2	E
	HTPR	05	1703	1708	1717	S20	E23	4672	07	7.5	14	SF				1708		20	.2	E
	RAMY	05	1708	1709	1712	S17	E23	4672	07	7.5	4	SF						24		
	HOLL	05	1708	1711U	1713D	S17	E23	4672	07	7.5	50	SF						24		
		05	2121		2125	No Flare Patrol														
0033		05	2300*	2426	2458	S11	E18	4671	07	7.3	118	SF						36		H
	PALE	05	2300		2523	S11	E19	4671	07	7.4	143	SF						33		
	LEAR	06	0022	0026	0033	S11	E16	4671	07	7.2	11	SF						40		H
0034	LEAR	06	0238	0248	0311	S11	E16	4671	07	7.3	33	SF	C 1.0					83		
0035		06	03452	03463	0356	S11	E15	4671	07	7.3	11	SF						42		EF
	LEAR	06	0345	0346	0353	S11	E13	4671	07	7.1	8	SF						27		F
	PALE	06	0347	0349	0359	S11	E17	4671	07	7.4	12	SF						38		E
0036	ABST	06	0504	0505U	0525D	S06	W13	4670	07	5.2	21D	SN						174	1.9	E
0037	ABST	06	0516	0518	0535	S15	E14	4671	07	7.3	19	SN						174	1.9	E
0038	HTPR	06	0916	0918	0927	S20	E13	4672	07	7.4	11	SN						30	.3	E
0039	HTPR	06	1401	1407	1425	S14	E08	4671	07	7.2	24	SF						10	.1	
0040	HTPR	06	1425	1428	1435	S19	E98		07	7.1	10	SF						10		
0041		06	16443	16491	1659	S18	E09	4672	07	7.4	15	SF						30		
	PALE	06	1644	1649	1704	S20	E09	4672	07	7.4	20	SF						28		
	RAMY	06	1647	1650	1654	S16	E09	4672	07	7.4	7	SF						32		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USA <sup>1</sup> Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0042	HTPR	06	1715*	1719*	1858	S18	E09	4672	07	7.4	103	SN				1732	61	1.0	EFK	
		06	1715		1820U	S18	E09	4672	07	7.4	650	SN					100	1.0	E	
	RAMY	06	1716	1719	1929	S18	E09	4672	07	7.4	133	SF		3	C		56		K	
	RAMY	06	1716	1925	1929	S18	E09	4672	07	7.4	133	SN		3	C		96		K	
	PALE	06	1724	1740	1750	S17	E09	4672	07	7.4	26	SF		3	C		28		E	
	HOLL	06	1744E	1744U	1826	S21	E09	4672	07	7.4	420	SF		3	C		63		F	
	PALE	06	1834	1838	1851	S17	E08	4672	07	7.4	17	SF		3	C		34		E	
	HOLL	06	1922	1924	1927D	S20	E08	4672	07	7.4	50	SN		3	C		60		F	
	PALE	06	1923	1923	1943	S19	E09	4672	07	7.5	20	SB		3	C		51		E	
0043	PALE	06	1946	1952	2004	S20	E08	4672	07	7.4	18	SF		3	C		28			
		06	2058		2105	No Flare Patrol														
0044		07	0012	0013	0018	S17	E06	4672	07	7.5	6	IF	C	1.3			148	2.3	EFJKT	
	VORO	06	2247E	2319U	2328D	S17	E07	4672	07	7.5	410	IF			C	2319	224	2.5	EFJKT	
	VORO	07	0300E	0013U	0023D	S17	E06	4672	07	7.4	230	IF			C	0013	188	2.1	EJKT	
	LEAR	07	0012	0013	0018	S16	E05	4672	07	7.4	6	SF	C	1.3	3	C	33		F	
0045		07	0040E	0043U	0109D	S16	E04	4671	07	7.3	290	SN					148	1.6	DJT	
	VORO	07	0040E	0043U	0053D	S16	E06	4671	07	7.5	130	SN			C	0043	143	1.5	DJT	
	VORO	07	0100E	0102U	0109D	S15	E03	4671	07	7.3	90	SN			C	0102	152	1.6	DJT	
0046	PALE	07	0049	0050	0100	S20	E05	4672	07	7.4	1	SF		2	C		26		E	
0047		07	05261	05272	0537	S15	E00	4671	07	7.2	11	SN	C	3.0			211	2.8	EF	
	LEAR	07	0526	0527	0535	S13	E00	4671	07	7.2	9	SN	C	3.0	3	C	124		F	
	ABST	07	0526	0527	0540	S15	W01	4671	07	7.1	14	SF			C	0527	174	1.9	E	
	PEKG	07	0527	0529	0537	S16	E01	4671	07	7.3	8	IB	C	3.0		C	0529	336	3.7	E
		07	0913		0949	No Flare Patrol														
		07	0956		1153	No Flare Patrol														
	07	1151		1159	No Flare Patrol															
	07	1214		1218	No Flare Patrol															
0048		07	1700	1747	1812	S22	W03	4672	07	7.5	72	SN					98		EF	
	PALE	07	1700	1747	1820	S21	W03	4672	07	7.5	80	SF		3	C		69		E	
	HOLL	07	1735E	1735U	1804	S22	W03	4672	07	7.5	290	SN		3	C		127		F	
	07	2229		2245	No Flare Patrol															
0049		08	0400	0400	0426	S14	W12	4671	07	7.2	26	IN					180	3.7	EF	
	TACH	08	0359E	0413U	0506D	S15	W12	4671	07	7.2	670	IN			C	0413	336	3.7	E	
	LEAR	08	0400	0400	0426	S14	W12	4671	07	7.2	26	SN		3	C		23		F	
0050		08	0410	04084	0455	S17	W12	4672	07	7.3	45	SN					83	1.5	E	
	ABST	08	0402E	0408	0455	S17	W13	4672	07	7.2	530	SB			P	0408	131	1.5	E	
	PALE	08	0410	0412	0421D	S17	W11	4672	07	7.3	110	SF		2	C		35			
0051	ABST	08	0500	0606	0625	S17	W13	4672	07	7.2	85	SN			C	0606	114	1.3	E	
0052	LEAR	08	0521	0521	0523	S21	W10	4672	07	7.4	2	SF		3	C		23			
0053		08	0548	06021	0614	S14	W13	4671	07	7.2	26	SN					81	1.2	E	
	TACH	08	0535E	0552U	0613D	S15	W13	4671	07	7.2	380	IN			C	0552	184	2.1	E	
	LEAR	08	0548	0603	0611	S14	W13	4671	07	7.2	23	SF		3	C		26			
	ATHN	08	0600E	0602	0618	S12	W12	4671	07	7.3	180	SN		3	V	0602	32	.4		
0054	HTPR	08	0722E		0815	S15	W17	4671	07	7.0	530	SN			C	0748	120	1.2	E	
0055		08	0850	0850	0902	S12	W14	4671	07	7.3	12	SN	C	1.2			44	.7		
	LEAR	08	0850	0850	0859	S11	W14	4671	07	7.3	9	SN	C	1.2	3	C	25			
	ATHN	08	0851E	0851U	0906	S12	W13	4671	07	7.4	150	SN		2	V	0851	64	.7		
0056	ATHN	08	0954	0955	1013	S15	W14	4671	07	7.3	19	SN		2	V	0955	64	.7		
0057	KANZ	08	0955	1000	1011	S22	W16	4672	07	7.2	16	SN		2						

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NAA/USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Yray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0058		08	1123	1124	1136	S12	W14	4671	07	7.4	13	SN						48	.5	
	ATHN	08	1123	1124	1136	S14	W16	4671	07	7.3	13	SJ		2	V	1124		48	.5	
	KANZ	08	1125	1125	1135	S11	W13	4671	07	7.5	10	SF		2						
		08	1401		1402	No Flare Patrol														
		08	1410		1426	No Flare Patrol														
		08	1434		1508	No Flare Patrol														
0059	PALE	08	1715	1716	1721	S09	W31	4674	07	6.4	6	SF		3	C			20		
		08	2014		2018	No Flare Patrol														
		08	2032		2043	No Flare Patrol														
		08	2125		2129	No Flare Patrol														
		08	2134		2216	No Flare Patrol														
		08	2220		2229	No Flare Patrol														
0060	PALE	08	2303	2303	2313	S09	W35	4674	07	6.3	10	SF		3	C			39		E
0061	PALE	08	2322	2322	2329	S16	W21	4671	07	7.4	7	SF		3	C			72		
0062	MANI	09	0123E		0129D	S05	W40	4674	07	6.1	6D	SN		2	P			71	.8	
0063		09	0133*	0140*	0344	S13	W25	4671	07	7.2	131	IN						327	5.8	DEFIKTUZ
	MANI	09	0123E		0129D	S13	W27	4671	07	7.0	6D	IN		2	P			220	2.3	E
	PURP	09	0128E	0219	0352	S13	W27	4671	07	7.0	144D	2N			C	0219		704	8.5	
	MITK	09	0133	0159	0312	S13	W25	4671	07	7.2	99	2B			C	0159		450	5.3	FU
	LEAR	09	0136	0140	0154D	S11	W25	4671	07	7.2	18D	SN		3	C			86		K
	LEAR	09	0136	0154U	0154D	S11	W25	4671	07	7.2	18D	1B		3	C			239		ZUK
	PALE	09	0147	0147	0156D	S16	W22	4671	07	7.4	9D	1B		3	C			176		
	LEAR	09	0305	0305	0312	S13	W25	4671	07	7.2	7	SN		3	C			32		F
	TACH	09	0310E	0324U	0335D	S11	W30	4671	07	6.9	143D	2N			C	0324		954	11.9	EIT
	ABST	09	0428	0430	0438	S15	W24	4671	07	7.4	10	SN			C	0430		87	1.0	D
0064	HTPR	09	0526E		0530	S17	W28	4672	07	7.1	4D	SN			C	0526		50	.6	
0065	KHAR	09	0624E	0624U	0629	S22	W27	4672	07	7.2	5D	SN			V	0624				D
0066		09	0806E	0815Z	0832	N04	E00	4676	07	9.3	26	SN	C 1.9					66	.7	EF
	HTPR	09	0806		0827D	N04	E01	4676	07	9.4	21D	SB			C	0811		40	.4	E
	KHAR	09	0806E		0834D	N03	W01	4676	07	9.3	28D	SN			V	0810		12.1	1.2	
	PURP	09	0807E	0813	0832D	N03	E01	4676	07	9.4	25D	SN			C	0813		5	.8	E
	LEAR	09	0808	0814	0831	N05	E00	4676	07	9.3	23	SN	C 1.9	3	C			48		F
	KANZ	09	0810	0813	0817D	N03	E00	4676	07	9.3	7D	SF		2						
	ATHN	09	0812	0815	0832	N03	E01	4676	07	9.4	20	SN		3	V	0815		48	.5	
0067	HTPR	09	0843	0846	0857	S19	W30	4672	07	7.1	14	SB			C	0846		20	.2	E
0068		09	1105Z	1108Z	1116	S19	W32	4672	07	7.0	11	IN						197	2.6	
	CATA	09	1105	1108	1120D	S19	W32	4672	07	7.0	15D	IN		2	P	1108		197	2.6	
	KANZ	09	1107	1110	1116	S19	W33	4672	07	6.9	9	SF		2						
0069	KANZ	09	1235	1239	1243	N05	E00	4675	07	9.5	8	SF		2						
0070		09	1652	1651	1712	S18	W34	4672	07	7.1	20	SB	C 3.6					60		FH
	PALE	09	1646E	1651	1707	S19	W35	4672	07	7.0	21D	SB	C 3.6	3	C			70		
	HOLL	09	1652	1652U	1718	S18	W33	4672	07	7.2	26	SB	C 3.6	3	C			51		FH
0071	PALE	09	1910	1910	1916	S15	W33	4671	07	7.3	6	SF		3	C			42		
0072	HOLL	09	2013	2019	2035	S18	W34	4672	07	7.2	22	SF		3	C			38		F
0073	PALE	09	2019	2020	2020D	S15	W34	4671	07	7.3	1D	SF		3	C			59		
0074	CULG	09	2345	2349	2404	S17	W35	4672	07	7.3	19	SN			C			90	1.2	EV
0075	CULG	10	0030	0031	0035	S20	W38	4671	07	7.1	5	SF			C			40	.6	DV
0076	LEAR	10	0156	0200	0207	S06	W51	4674	07	6.3	11	SF		3	C			34		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0077		10	0339	0339	0344	S15	W38	4671	07	7.3	5	SN				20			
	LEAR	10	0339	0339	0344	S14	W38	4671	07	7.3	5	SN	3	C		21			
	PALE	10	0339	0340	0343	S16	W37	4671	07	7.3	4	SF	3	C		19			
0078	LEAR	10	0653	0659	0700	S14	W40	4671	07	7.3	7	SF	3	C		28		F	
0079	HTPR	10	0746E		0806D	N03	W17	4676	07	9.0	200	SF		C	0753	10	.1		
0080		10	0850	0900	0914	S16	W42	4671	07	7.2	16	SN				27	.4	E	
	HTPK	10	0804E		0913	S16	W42	4671	07	7.1	690	SN			0806	20	.3	E	
	HTPK	10	0858	0900	0915	S19	W46	4671	07	6.9	17	SB		C	0900	30	.4	E	
	ATHN	10	0859	0903	0914	S12	W38	4671	07	7.5	15	SN	2	V	0903	32	.4		
0081	HTPR	10	0844	0848	0854	S08	W56	4674	07	6.2	10	SN		C	0848	80	1.4	E	
0082	ATHN	10	0902	0909	0921	S15	W53	4671	07	6.4	19	SN	2	V	0905	48	.8		
0083	HTPR	10	1015	1024	1033	S16	W45	4671	07	7.0	18	SB		C	1024	60	.9	E	
0084		10	1043	1047	1049	S08	W56	4674	07	6.2	6	SN				78	1.5	DE	
	HTPR	10	1043	1047	1049	S08	W57	4674	07	6.2	6	SN		C	1047	70	1.3	E	
	ABST	10	1048E	1050U	1102D	S07	W55	4674	07	6.3	140	SN		P	1050	87	1.7	D	
0085	HTPR	10	1125	13.3	1340	S08	W58	4674	07	6.1	135	SF		C	1315	60	1.2	E	
0086	HTPR	10	1250	1250	1259	S19	W47	4671	07	6.9	9	SN		C	1250	10	.1		
0087	HTPR	10	1409	1413	1425	S17	W45	4671	07	7.2	16	SN		C	1413	20	.3		
0088	HTPR	10	1437	1438	1447	N05	W1.	4675	07	9.6	10	SF		C	1438	30	.3	E	
0089		10	1646	1647	1704	S12	W44	4671	07	7.4	16	SB				52	.8	EF	
	HTPR	10	1646	1647	1702	S12	W44	4671	07	7.4	16	SB		C	1647	60	.8	E	
	PALE	10	1648	1650	1706	S11	W45	4671	07	7.3	18	SN	2	C		45		F	
0090		10	1711*	1717	1725	S08	W59	4674	07	6.3	14	SF	C 1.1			26			
	PALE	10	1711	1717	1723	S08	W60	4674	07	6.2	12	SF	3	C		35			
	RAMY	10	1713	1717	1721	S09	W58	4674	07	6.4	8	SF	3	C		27			
	RAMY	10	1722	1724	1730	S08	W59	4674	07	6.3	8	SF	C 1.1	3	C		17		
		10	1951		1957	No Flare Patrol													
0091	PALE	10	2033E	2040U	2050	S17	W47	4671	07	7.3	17D	SN	3	C		19			
		10	2053		2106	No Flare Patrol													
0092	PALE	10	2108	2117	2124	S17	W47	4671	07	7.3	16	SF	3	C		26			
		10	2129		2133	No Flare Patrol													
0093	PALE	10	2231	2232	2234	S16	W48	4671	07	7.3	3	SN	3	C		24			
0094	CULG	10	2232	2250	2301	N02	W23	4676	07	9.2	29	SF		C		40	.4	D	
0095	LEAR	11	0250	0250	0259	S14	W50	4671	07	7.3	9	SF	3	C		18			
0096	LEAR	11	0325	0327	0346	S13	W51	4671	07	7.3	21	SF	3	C		24		F	
0097	LEAR	11	0332	0333	0340	S07	W64	4674	07	6.3	8	SF	3	C		39			
0098	LEAR	11	0507	0509	0518	S05	W66	4674	07	6.3	11	SF	3	C		19		F	
0099		11	0639	0643	0652	S08	W68	4674	07	6.2	13	SF				29	1.2	EFH	
	LEAR	11	0639	0643	0645	S05	W66	4674	07	6.3	6	SF	3	C		12		F	
	KHAR	11	0642	0646	0658	S12	W70	4674	07	6.0	16	SN		V	0646			EH	
	LEAR	11	0646	0647	0653	S07	W68	4674	07	6.2	7	SF	3	C		25			
	HTPK	11	0647	0649	0652	S10	W69	4674	07	6.1	5	SF		C	0649	50	1.2		

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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)		
0100	KHAR	11	0720		0730	S09	W64	4674	07	6.5	10	SF			V	0720			D	
0101		11	0746	07482	0754	S07	W63	4674	07	6.6	8	SF					32	.6	H	
	KHAR	11	0744E	0748U	0755	S09	W64	4674	07	6.5	11D	SF			V	0748			H	
	LEAR	11	0746	0748	0754	S05	W65	4674	07	6.5	8	SF	3		C		31			
	KANZ	11	0746	0750	0754	S07	W64	4674	07	6.5	8	SF	2							
	ATHN	11	0746	0750	0755	S06	W60	4674	07	6.8	9	SF	3		V	0750	32	.6		
0102	HTPR	11	0936E		0940	S08	W66	4674	07	6.4	4D	SF			C	0937	20	.5		
0103	HTPR	11	1148	1151	1155	S08	W67	4674	07	6.5	7	SN			C	1151	20	.5		
0104	HTPR	11	1309	1329	1330	S18	W54	4671	07	7.4	21	SF			C	1329	20	.3	E	
0105		11	1345	1346.5	1410	S17	W58	4671	07	7.2	25	SF	C 5.1				55	1.0	E	
	RAMY	11	1345	1346	1410	S18	W59	4671	07	7.1	25	SN	C 5.1	3			40			
	HTPR	11	1345	1349	1410	S16	W56	4671	07	7.3	25	SB			C	1349	70	1.0	E	
0106	HTPR	11	1433	1436	1437	S13	W57	4671	07	7.3	4	SF			C	1436	10	.2		
		11	1923		1944	No Flare Patrol														
		11	2000		2019	No Flare Patrol														
		11	2028		2101	No Flare Patrol														
0107	LEAR	12	0235	0235	0244	S13	W65	4671	07	7.2	9	SF	3		C		15			
0108		12	0501*	0530*	0630	S16	W66	4671	07	7.2	89	SN					88		EFK	
	CULG	12	0501	0534	0625	S20	W64	4671	07	7.3	84	SN			C		70		E	
	LEAR	12	0502	0533	0635	S14	W66	4671	07	7.2	93	SN	3		C		95		F K	
	LEAR	12	0502	0617	0635	S14	W66	4671	07	7.2	93	SN	3		C		24		K	
	PURP	12	0517	0530	0615D	S20	W69	4671	07	6.9	58D	1N			C	0530	163		E	
	KANZ	12	0519E	0530	0625	S18	W63	4671	07	7.4	66D	SF	1							
	KHAR	12	0540E		0650D	S11	W67	4671	07	7.2	70D	1N			V	0545			E	
0109	KHAR	12	0618		0650D	S08	W68	4674	07	7.2	32D	SN			V	0618			D	
0110	LEAR	12	0734	0738	0749	S17	W67	4671	07	7.2	15	SF	3		C		22			
		12	1954		2044	No Flare Patrol														
0111		13	05131	05172	0526	S18	W84	4671	07	6.8	13	SF					19		D	
	CULG	13	0513	0517	0529	S20	W90	4671	07	6.3	16	SF			C				D	
	LEAR	13	0514	0519	0523	S15	W78	4671	07	7.3	9	SF	3		C		19			
0112		13	05419	0542*	0600	S16	W83	4671	07	6.9	19	SF					25			
	LEAR	13	0541	0542	0546	S14	W79	4671	07	7.3	5	SF	3		C		29			
	LEAR	13	0550	0551	0610	S14	W79	4671	07	7.3	20	SN	3		C		21			
	CULG	13	0550	0557	0605	S20	W90	4671	07	6.3	15	SF			C					
0113		13	06481	06482	0652	S17	W86	4671	07	6.7	4	SN					29			
	CULG	13	0648	0648	0652	S20	W90	4671	07	6.4	4	SF			C					
	LEAR	13	0649	0650	0653	S14	W81	4671	07	7.2	4	SN	3		C		29			
0114		13	08171	0821	0824	S19	W88	4671	07	6.6	7	SN					20		DE	
	HTPR	13	0817	0821	0824	S18	W90	4671	07	6.5	7	SN			C	0821	20		E	
	KHAR	13	0818	0819U	0825	S20	W85	4671	07	6.8	7	SN			V	0819			D	
0115		13	0837*	0840*	0904	S16	W85	4671	07	6.9	27	SB					42	1.6	DHKOV	
	KHAR	13	0837	0840	0919	S16	W88	4671	07	6.7	42	SF			P	0857			DHKO	
	HTPR	13	0847	0849	0905	S18	W90	4671	07	6.5	18	SB			C	0849	40			
	ATHN	13	0849	0850	0858	S15	W78	4671	07	7.5	9	SB	1		V	0850	32	1.6		
	LEAR	13	0849	0850	0858	S15	W78	4671	07	7.5	9	SB	3		C		40			
	CATA	13	0850	0850	0900	S16	W90	4671	07	6.5	10	1B	2		C	0850	56			
	KHAR	13	0850	0852U	0903D	S 9	W85	4671	07	6.9	13D	SB			V	0852			DV	
0116		13	10358	1037U	1046	S18	W89	4671	07	6.7	11	SF							DH	
	KHAR	13	1035	1037U	1042	S19	W88	4671	07	6.7	7	SF			V	1037			D	
	KHAR	13	1043		1050	S16	W90	4671	07	6.6	7	SF			V	1043			DH	

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OAP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement			Remarks
																(10 <sup>-6</sup> Disk)	Apparent (Sq Deg)	Corr (Sq Deg)	
0117	HTPR	13	1712	1715	1719	S18	W90	4671	07	6.9	7	SF		C	1715		10		
0118		13	18422	18441	1850	S15	W87	4671	07	7.2	8	SN					40		
	RAMY	13	1842	1845	1853	S17	W84	4671	07	7.4	11	SN	3	C			60		
	PALE	13	1844	1844	1848	S13	W90	4671	07	7.0	4	SN	3	C			21		
		13	2051		2059	No Flare Patrol													
0119	CAYA	14	0520	0520	0530	S15	W90	4671	07	7.4	10	SF	2	C	0520		28		
0120	HTPR	15	1002	1005	1011	N02	W82	4676	07	9.3	9	SF		C	1005		10		
		15	1319		1414	No Flare Patrol													
		15	1811		1909	No Flare Patrol													
		15	1924		1934	No Flare Patrol													
0121	KHAR	16	0632	0632U	0639D	S12	E86	4677	07	22.7	7D	SF		V	0632				D
0122	KHAR	17	1050E		1054	S12	E66	4677	07	22.4	4D	SF		V	1050				D
		17	2111		2231	No Flare Patrol													
		17	2253		2257	No Flare Patrol													
0123		18	06351	06362	0652	S18	E51	4677	07	22.1	17	SF					27	.5	DV
	ABST	18	0635	0636	0652	S18	E52	4677	07	22.2	17	SF		C	0636		44	.8	DV
	HTPR	18	0636	0638	0653	S18	E50	4677	07	22.1	17	SF		C	0638		10	.2	
		19	1911		1917	No Flare Patrol													
		19	1935		1953	No Flare Patrol													
		19	2040		2048	No Flare Patrol													
		19	2059		2120	No Flare Patrol													
		19	2122		2128	No Flare Patrol													
0124	HTPR	20	0531	0532	0538	S15	E22	4677	07	21.9	7	SF		C	0532		30	.3	E
0125	HTPR	20	0831	0834	0843	S14	E20	4677	07	21.9	12	SN		C	0834		20	.2	E
		20	2046		2106	No Flare Patrol													
		20	2120		2146	No Flare Patrol													
0126	CULG	21	0317	0329	0412	S15	E16	4677	07	22.3	55	SN		C			50	.6	D
0127	KHAR	21	0932	0934	0940	S15	E13	4677	07	22.4	8	SF		V	0934				D
0128	KHAR	22	0753		0758	S13	E62	4678	07	27.0	5	SF		V	0754				D
0129	KHAR	22	0840		1000D	S14	E62	4678	07	27.0	80D	1F		V	0952				CL
0130	KHAR	22	1105E	1110U	1130	S14	E61	4678	07	27.1	25D	SF		V	1110				D
0131	KHAR	22	1138	1140	1150	S14	E61	4678	07	27.1	12	SF		V	1140				D
		23	1941		2058	No Flare Patrol													
		24	1714		1724	No Flare Patrol													
		25	1428		1509	No Flare Patrol													
		25	1626		1629	No Flare Patrol													
		25	2239		2252	No Flare Patrol													
0132	ABST	26	0450	0455	0501	N03	W09	4679	07	25.5	11	SF		C	0455		87	.9	E
0133	KHAR	26	0743E	0744	0750	N18	E90		08	2.2	7D	SF		V	0744				DH
0134	KHAR	26	0743E		0750	S13	E08	4678	07	26.9	7D	SF		V	0743				D
0135		26	0805*	0806*	0821	N06	E90	4680	08	2.1	16	SF							DH
	KHAR	26	0805	0806	0817	N06	E90	4680	08	2.1	12	SF		V	0806				DH
	KHAR	26	0819	0821	0825	N07	E90	4680	08	2.1	6	SF		V	0821				D

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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
																	(10 <sup>-6</sup> Disk)	Apparent (Sq Deg)	
0136	KHAR	26	0815E	0818	0825	S07	E90	4681	08	2.1	100	SN			V	0818			D
0137	KHAR	26	1050E	1050U	1056	N07	E90	4680	08	2.2	60	SF			V	1050			DH
		26	1825		1831			No Flare Patrol											
		26	1839		1921			No Flare Patrol											
		26	2004		2006			No Flare Patrol											
		26	2012		2058			No Flare Patrol											
		26	2341		2354			No Flare Patrol											
		26	2358		2400			No Flare Patrol											
		27	0000		0008			No Flare Patrol											
0138	CULG	27	0224E		0311	N07	E90	4680	08	2.8	47D	SF			P				
		27	1331		1800			No Flare Patrol											
		27	1824		1839			No Flare Patrol											
		27	1915		1923			No Flare Patrol											
		27	1934		1946			No Flare Patrol											
0139	KHAR	28	0802E	0806	0810	S08	E65	4681	08	2.2	8D	SF				0806			D
0140	KHAR	28	0831	0832	0836	N02	W38		07	25.5	5	SF			V	0832			D
0141	KHAR	28	08*5	0837	0850	S15	E86	4682	08	3.9	14	SN			V	0837	50		D
0142	KHAR	28	0858	0905U	0908D	N07	E67	4680	08	2.4	10D	SN			V	0905	40		DL
0143	KHAR	28	0930E		0940	S07	W56	4677A	07	24.2	10D	SF			V	0930			D
0144	CATA	28	1007E	1007	1011D	S23	E90		08	4.3	4D	2N	2	P	1007	225			A
0145	ATHN	28	1022	1024	1037	S16	E78	4682	08	3.3	15	SN	3	V	1024	32	1.3		
		28	1504		1505			No Flare Patrol											
		28	1511		1527			No Flare Patrol											
0146		28	2312I	23132	2334	N07	E59	4680	08	2.4	22	1N C	1.3				138	5.5	FHV
	PALE	28	2312	2313	2342	N06	E63	4680	08	2.7	30	SF C	1.3	3	C		51		
	HOLL	28	2312	2315	2328	N08	E58	4680	08	2.3	16	SN C	1.3	3	C		63		FH
	CULG	28	2313	2313	2333	N08	E57	4680	08	2.2	20	2B			C		300	5.5	V
0147	ABST	29	0514	0520	0529	S07	W69	4677A	07	24.0	15	SF			C	0520	87		DT
0148		29	0607I	0608i	0618	N08	E50	4680	08	2.0	11	SN					26	.4	DV
	CULG	29	0607	0609	0625	N09	E48	4680	08	1.8	18	SB			C		20	.3	DV
	ATHN	29	0608	0608	0615	N07	E47	4680	08	1.8	7	SN			V	0608	32	.5	
	LEAR	29	0608	0609	0614	N09	E56	4680	08	2.4	6	SN			C		26		
0149	LEAR	29	0718	0728	0729	S04	W68	4677A	07	24.2	11	SF			C		15		
0150	ABST	29	0750E	0754U	0800D	S07	W69	4677A	07	24.1	10D	SF			P	0754	87		DT
0151		29	0902I	0903I	0910	S18	E62	4682	08	3.1	8	SN					18	.5	
	ATHN	29	0902	0903	0912	S19	E64	4682	08	3.3	10	SN			V	0903	19	.5	
	LEAR	29	0903	0904	0908	S17	E60	4682	08	2.9	5	SF			C		18		
		29	1320		1326			No Flare Patrol											
0152		29	1559	1602U	1637	S18	E60	4682	08	3.2	38	1N C	2.1				105		F
	RAMY	29	1559	1602U	1635	S17	E60	4682	08	3.2	36	1I C	2.1	3	C		172		F
	HOLL	29	1625E	1626U	1639	S18	E60	4682	08	3.2	14D	SN			C		38		F
0153		29	2130	21313	2141	N07	E42	4680	08	2.0	11	SF					71	1.7	EV
	PALE	29	2130	2131	2136	N09	E45	4680	08	2.3	6	SF			C		39		
	CULG	29	2130	2131	2143	N05	E40	4680	08	1.9	13	SF			C		130	1.7	EV
	RAMY	29	2130	2134	2144	N06	E40	4680	08	1.9	14	SF			C		44		
0154		30	0516	05152	0524	N06	E42	4680	08	2.4	8	SN					80	1.1	D
	PURP	30	0514E	0515	0523	N05	E42	4680	08	2.3	9D	SN			C	0515	115	1.6	D
	ABST	30	0516	0517	0524	N06	E43	4680	08	2.4	8	SF			C	0517	44	.6	D



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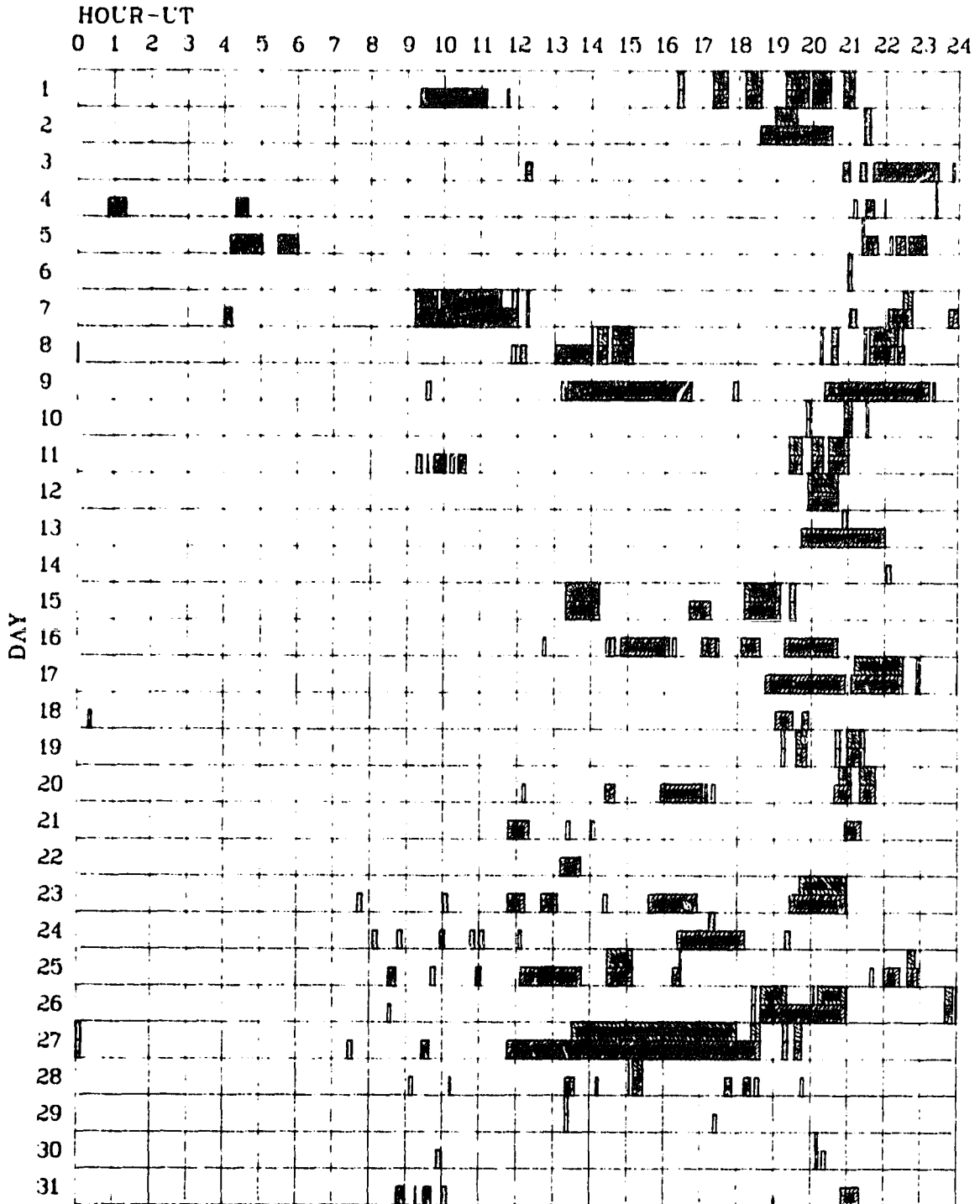
JULY 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	OMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)	
0155		30	05306	05389	0558	S18	E52	4682A	08	3.2	20	1N					110	2.5	EF
	CULG	30	0530	0539	0557	S17	E52	4682A	08	3.2	27	1F			C		130	2.5	E
	ABST	30	0533	0538	0556	S17	E53	4682A	08	3.2	23	1N			C	0538	131	2.4	E
	MITK	30	0536	0541	0556	S19	E52	4682A	08	3.2	20	SN			C	0541			E
	PURP	30	0536E	0547	0605	S19	E52	4682A	08	3.2	29D	1B			C	0547	130	2.5	E
	LEAR	30	0546E		0546D	S18	E51	4682A	08	3.1	29D	SF	1		C		51		F
0156		30	07405	07454	0754	N06	E32	4680	08	1.7	14	SN					112	1.4	DEH
	CATA	30	0740	0745	0755	N05	E31	4680	08	1.6	15	SN	1		C	0745	140	1.7	H
	KHAR	30	0743E		0753	N06	E32	4680	08	1.7	10D	SF			Y	0743	120	1.4	DH
	ABST	30	0744	0749	0752D	N06	E34	4680	08	1.9	8D	SN			P	0749	123	1.5	E
	ATHN	30	0745	0748	0755	N06	E33	4680	08	1.8	10	SB	2		V	0748	64	.8	
0157		30	0810	08111	0818	N06	E34	4680	08	1.9	8	SN					81	1.0	DEH
	PURP	30	0807E	0812	0820	N04	E35	4680	08	1.9	13D	SB			C	0812	81	1.0	E
	ISTA	30	0810E		0818	N07	E34	4680	08	1.9	8D	SN							D
	KHAR	30	0810	0811	0815	N06	E32	4680	08	1.7	5	SF			V	0811			DH
0158	KHAR	30	0934		0938	S07	W87		07	23.9	4	SF			V	0934			D
0159	KHAR	30	0955E		1000	S07	W87		07	23.9	5D	SF			V				DH
0160	KHAR	30	1009	1010	1015	S06	E36	4681	08	2.1	6	SF			V	1010			D
0161	KHAR	30	1023E		1030	S08	E32	4681	08	1.8	7D	SF			V	1023			D
0162	RAMY	30	1111	1116	1126	S19	E49	4682A	08	3.2	15	1F	3		C		173		
0163	CATA	30	1125	1125	1130	N04	E31	4680	08	1.8	5	SF	2		C	1125	112	1.4	
0164	RAMY	30	1310	1311	1330	N05	E38	4680	08	2.4	20	SF	3		C		23		F
		30	2009		2013	No Flare Patrol													
0165	CULG	30	2336	2339	2346	N09	E40	4680A	08	3.0	10	SF			C		70	.9	D
0166	CULG	31	0113	0114	0119	N06	E23	4680	08	1.8	6	SF			C		80	.9	EV
0167	CULG	31	0159	0215	0224	N06	E23	4680	08	1.8	25	SF			C		40	.4	DH
0168		31	03316	03372	0349	N05	E23	4680	08	1.9	18	SN					71	.8	DEV
	CULG	31	0331	0337	0349	N06	E23	4680	08	1.9	18	SN			C		100	1.1	EV
	PEKG	31	0337	0339	0346	N05	E23	4680	08	1.9	9	SN			C	0339	42	.5	D
	MITK	31	0339E		0352	N05	E23	4680	08	1.9	14D	SN			P	0338			D
0169	CULG	31	0427	0430	0438	N07	E22	4680	08	1.8	11	SN			C		60	.7	E
0170		31	05342	05362	0555	N06	E22	4680	08	1.9	21	SN					120	1.3	EV
	CULG	31	0534	0537	0556	N07	E22	4680	08	1.9	22	SB			C		100	1.1	E
	ABST	31	0536	0536	0554	N06	E23	4680	08	1.9	18	SN			C	0536	140	1.5	EV
	MITK	31	0536	0538	0555	N06	E22	4680	08	1.9	19	SN			C	0538			E
0171		31	06351	06382	0702	N06	E22	4680	08	1.9	27	SN					94	1.0	E
	ABST	31	0635	0638	0656D	N06	E23	4680	08	2.0	21D	SN			P	0638	148	1.6	E
	CULG	31	0636	0639	0658	N07	E21	4680	08	1.8	22	SN			C		50	.6	E
	CATA	31	0640E	0640	0705	N05	E21	4680	08	1.8	25D	SF	2		P	0640	84	.9	
0172		31	0720	07232	0733	N06	E22	4680	08	1.9	13	SN					122	1.3	E
	ABST	31	0720	0723	0733	N06	E23	4680	08	2.0	13	SN			C	0723	131	1.4	E
	BUCA	31	0720	0724	0733	N06	E21	4680	08	1.9	13	SN			C	0724	107	1.2	
	ATHN	31	0722E	0725	0734	N06	E21	4680	08	1.9	12D	SB	3		V	0725	127	1.4	
0173	RAMY	31	1104	1109	1121	N05	E19	4680	08	1.9	17	SF	3		C		20		F
0174	RAMY	31	1137	1141	1147	N05	E19	4680	08	1.9	10	SF	3		C		22		F
0175	RAMY	31	1201	1202	1208	N10	E24	4680	08	2.3	7	SF	3		C		23		F
0176	CULG	31	2255	2300	2310	S10	E29	4682	08	3.1	15	SF			C		80	1.0	E
0177	CULG	31	2338	2343	2400	N04	E20	4680	08	2.5	22	SF			C		80	.8	E

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

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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  
Athens  
Bucharest

Catania  
Culgoora  
Haute Provence

Istanbul  
Kanzelhoehe  
Kharkov

Lvov  
Manila  
Mitaka  
Peking

Purple Mt.  
Tashkent  
Voroshilov  
Wendelstein

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JULY 1985

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 (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		
01	245	LEAR	47 GB	0132.3	0132.3	.2	57.0			QL=6 ST=2 TYP=5
	260	ONDR	8 S	0559.0	0559.5	1.0	13.0			
	204	IZMI	4 S/F	0747.5	0748.1	2.0	98.0	30.0		
	29	UPIC	2 S/F	0902.0	0902.5	1.1				
	33	UPIC	2 S/F	0902.0	0902.6	1.2				
	33	UPIC	45 C	0925.3	0925.6U	3.0				
	29	UPIC	45 C	0925.6	0926.2	2.5				
	536	ONDR	8 S	1002.0	1002.0	.1	3.0			
	536	ONDR	8 S	1019.2	1019.2	.3	6.0			
02	260	ONDR	43 NS	1145.0	1152.0	11.0	2.0			QL=5 ST=2 TYP=2
	260	ONDR	43 NS	1312.5		47.50	4.0			
	33	UPIC	46 C	0330.0E	0342.1	13.30				
	29	UPIC	46 C	0330.0E	0342.3	12.70				
	3750	TYKW	5 S	0517.0	0518.7	15.0	2.0	0.5		
	3750	TYKW	20 GRF	0618.0	0632.0	100.0	2.0	1.0		
	9400	TYKW	20 GRF	0623.0	0633.0	90.0	3.0	1.5		
	1415	ATHN	20 GRF	0644.0	0648.0	9.0	4.0			
	204	IZMI	4 S/F	0658.2	0658.4	1.2	84.0	50.0		
	260	ONDR	42 SER	0743.5	0743.5	7.0	3.0			
	260	ONDR	46 C	0943.0	0943.1	1.0	15.0			
	237	TRST	45 C	0943.1	0943.2	.9	40.0		20L	
	2800	OTTA	21 GRF	1105.0	1140.0	175.0	4.8	2.4		
	2800	OTTA	20 GRF	1107.0	1110.0	20.0	6.4	3.2		
	2950	GORK	21 GRF	1107.3	1113.9	52.7	4.5			
	3100	CRIM	3 S	1108.0	1108.5	12.0	7.0	2.0		
	9100	GORK	20 GRF	1109.0		51.00	10.0			
	2950	GORK	2 S/F	1109.2	1109.9	2.3	2.6	1.3		
	3100	CRIM	29 PBI	1120.0	1120.0	40.0	3.0	1.0		
	2800	OTTA	21 GRF	1605.0	1710.0	145.0	3.2	1.5		
	2800	OTTA	1 S	1658.0	1702.0	10.0	3.2	1.6		
	2800	OTTA	23 GRF	2045.0	2150.0	170.0	7.2			
	3750	TYKW	28 PRE	2105.0	2110.3	9.0	2.0	1.0		
	2000	TYKW	28 PRE	2108.0	2110.0	6.0	1.0	.5		
	1000	TYKW	45 C	2114.0	2120.5	63.0	275.0	25.0		
	2000	TYKW	45 C	2114.0	2120.6	55.0	170.0	20.0		
	3750	TYKW	45 C	2114.0	2122.0	26.0	440.0	80.0		
	2800	OTTA	4 S/F	2114.0	2122.5	29.0	185.0	58.0		
	9400	TYKW	45 C	2115.0	2121.7	35.0	1500.0	200.0	RAIN	
	8800	SGMR	49 GB	2116.1	2120.0	12.0	1399.0		QL=6 ST=2 TYP=6	
	8800	PALE	49 GB	2116.1	2121.6	11.7	1500.0		QL=6 ST=2 TYP=6	
	4995	SGMR	49 GB	2116.3	2120.0	12.0	780.0		QL=6 ST=2 TYP=6	
	15400	SGMR	49 GB	2116.3	2120.0	17.7	1399.0		QL=6 ST=2 TYP=6	
	15400	PALE	49 GB	2116.5	2120.5	21.8	1399.0		QL=6 ST=2 TYP=6	
	4995	PALE	49 GB	2116.5	2122.1	11.5	690.0		QL=6 ST=2 TYP=6	
	1415	SGMR	47 GB	2117.1	2118.0	14.0	250.0		QL=6 ST=2 TYP=5	
	2695	SGMR	47 GB	2117.3	2120.0	11.5	210.0		QL=6 ST=2 TYP=5	
	1415	PALE	47 GB	2117.3	2120.5	11.7	270.0		QL=6 ST=2 TYP=5	
	2695	PALE	47 GB	2117.6	2120.6	10.2	189.0		QL=6 ST=2 TYP=5	
	200	HIRA	46 C	2118.4	2129.4	41.7	180.0	16.0	WL	
	610	PALE	47 GB	2119.0	2120.5	5.1	160.0		QL=6 ST=2 TYP=5	
	610	SGMR	47 GB	2119.1	2120.0	5.0	130.0		QL=6 ST=2 TYP=5	
	410	SGMR	47 GB	2120.3	2120.5	1.0	51.0		QL=6 ST=2 TYP=5	
	100	HIRA	46 C	2122.7U	2122.9	20.0U	300.0	63.0U		
	410	PALE	47 GB	2125.6	2125.8	.4	62.0		QL=6 ST=2 TYP=5	
245	PALE	47 GB	2125.6	2126.1	8.7	250.0		QL=6 ST=2 TYP=5		
245	SGMR	47 GB	2125.8	2126.1	8.7	200.0		QL=6 ST=2 TYP=5		
3750	TYKW	30 PBI	2140.0		100.0	8.0	3.0			
9400	TYKW	29 PBI	2150.0		90.0	21.0	8.0			
2000	TYKW	31 ABS	2209.0	0100.0	420.0	-4.0	-2.0			
1000	TYKW	31 ABS	2217.0	0110.0	270.0	-1.0	-0.5			
1000	TYKW	45 C	2222.0	2224.4	18.0	2.0	.7			
3750	TYKW	31 ABS	2320.0	0110.0	270.0	-3.0	-1.5			
03	2840	PEKG	1 S	0248.0	0250.2	9.0	4.7	2.2		
	808	ONDR	46 C	0631.0	0631.5	1.5				
	3750	TYKW	5 S	0746.0	0747.4	3.0	2.5	1.0		
	9100	GORK	1 S	0746.9	0747.5	.7	5.0			
	2950	GORK	1 S	0747.0	0747.6	1.2	.9			
	3750	TYKW	29 PBI	0749.0		20.0	1.0	.5		
260	ONDR	8 S	1331.0	1331.0	.5	4.0				

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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 (W/m <sup>2</sup> Hz)		
03	33	UPIC	42 SER	1638.0	1638.5	10.2				
	29	UPIC	42 SER	1658.1	1658.6U	14.1U				
	2800	OTTA	20 GRF	1830.0	1830.0	60.0	1.2	.6		
04	260	ONDR	43 NS	1302.0	1400.0	78.00	16.0			
	3750	TYKW	5 S	0135.0	0140.0	20.0	1.5	.5		
	3750	TYKW	20 GRF	0207.0	0209.0	30.0U	1.0	.5		INTERFERENCE
	2840	PEKG	1 S	0604.0	0604.9	9.0	5.7	2.9		
	2950	GORK	1 S	0902.2	0904.8	4.7	1.1			
	2950	GORK	20 GRF	0908.7	0912.0	14.0	1.5			
	2800	OTTA	20 GRF	1200.0	1220.0	180.0	4.6	2.0		
	1470	POTS	20 GRF	1210.0	1228.0	110.0	3.0			
	9500	POTS	20 GRF	1210.0	1231.5	110.0	6.0			
	3000	POTS	20 GRF	1210.0	1231.8	110.0	5.0			
	2800	OTTA	20 GRF	1830.0	1855.0	70.0	2.4	1.3		
3750	TYKW	20 GRF	2200.0	2305.0	190.0	1.0	.5			
05	245	LEAR	43 NS	0010.1	0027.8	303.9	42.0			QL=6 ST=2 TYP=1
	245	PALE	43 NS	0050.1	0050.1		27.0			QL=6 ST=3 TYP=1
	260	ONDR	43 NS	0812.5	1328.0	469.5D	25.0			
	3750	TYKW	20 GRF	0440.0	0520.0	180.0	1.5	.7		
	650	GORK	2 S/F	0848.0	0851.1	7.0	4.0			
	9100	GORK	20 GRF	0936.2	0941.4	48.0	4.7			
	2950	GORK	21 GRF	0937.8	0941.6	31.2	1.8			
	204	IZMI	4 S/F	0938.0	0938.1	2.0	54.0	15.0		
	2950	GORK	3 S	0939.4	0940.2	1.9	8.0	4.0		
	950	GORK	2 S/F	0939.5	0940.0	1.3	7.5			
	3000	POTS	4 S/F	0939.5	0940.1	1.2	12.0			
	1470	POTS	4 S/F	0939.5	0940.1	1.5	8.0			
	650	GORK	1 S	0939.6	0940.1	.9	3.5			
	536	ONDR	8 S	0940.0	0940.0	.5	39.0			
	3000	IZMI	1 S	0940.0	0940.4	2.0	11.0	7.0		
	2950	GORK	20 GRF	1023.4	1024.7	12.5	.9			
	9100	GORK	20 GRF	1119.6	1144.9	40.4D	3.8			
	2950	GORK	20 GRF	1140.3	1145.2	20.0D	.9			
	2800	OTTA	22 GRF	1345.0	1400.0	25.0	1.2			
	3750	TYKW	5 S	2253.0	2254.3	12.0	1.5	.7		
2695	PENT	1 S	2253.0	2257.0	10.0	2.2	1.2			
2000	TYKW	5 S	2253.0	2258.0	15.0	1.5	.5			
06	200	HIRA	44 NS	1936.0E	0131.0	840.0D	20.0	3.0		WR
	245	LEAR	43 NS	2322.0	0007.1	613.0C	13.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2322.0	2329.1	613.0D	50.0			QL=6 ST=2 TYP=1
	3750	TYKW	21 GRF	0236.0	0243.0	90.0U	2.0	1.0		INTERFERENCE
	2000	TYKW	20 GRF	0237.0	0243.0	85.0	3.0	1.0		
	9400	TYKW	20 GRF	0237.0	0248.0	85.0	4.0	2.0		
	1000	TYKW	45 C	0241.0	0243.0	3.5	6.0	1.0		
	3750	TYKW	5 S	0342.0	0344.0	20.0	1.5	.5		
	2950	GORK	20 GRF	0706.0	0816.5	150.0D	3.0			
	3750	TYKW	20 GRF	0730.0	0810.0	110.0	2.0	1.0		
	2000	TYKW	20 GRF	0730.0	0810.0	110.0U	2.0	1.0		
	9100	GORK	20 GRF	0734.5	0817.6	79.4	6.3			
	2800	OTTA	20 GRF	1710.0	1718.0	20.0	2.2	.8		
	9400	TYKW	45 C	2122.0	2122.8	3.0	6.0	2.0		
	9400	TYKW	30 PBI	2125.0		10.0	2.0	1.0		
	9400	TYKW	31 ABS	2135.0	2215.0	65.0	-3.0	-1.5		
	9400	TYKW	5 S	2234.0	2234.6	1.5	3.0	1.0		
	2800	OTTA	20 GRF	2235.0	2305.0	60.0	1.6	.8		
	9400	TYKW	5 S	2237.0	2237.6	2.0	4.0	1.5		
	2000	TYKW	21 GRF	2240.0	2300.0	50.0	1.0	.5		
	1000	TYKW	45 C	2243.0	2243.8	3.0	21.0	3.0		
	9400	TYKW	5 S	2248.0	2250.0	9.0	3.0	1.0		
	3750	TYKW	21 GRF	2248.0	2300.0	40.0	1.0	.5		
	9400	TYKW	21 GRF	2248.0	2304.0	40.0	4.0	2.0		
	9400	TYKW	45 C	2317.0	2318.6	7.0	7.0	2.0		
	3750	TYKW	5 S	2318.0	2318.5	3.0	1.5	.5		
	3750	TYKW	31 ABS	2328.0	2343.0	32.0	-1.5	-0.7		
9400	TYKW	31 ABS	2328.0	2345.0	30.0	-2.0	-1.0			
2000	TYKW	31 ABS	2330.0	2340.0	30.0	-1.0	-0.5			
07	200	GORK	44 NS	0024.8E		414.0D		5.0		

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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		
07	260	ONDR	44 NS	0656.0		434.00	36.0			
	245	PALE	43 NS	1633.0	2029.6	711.00	83.0			QL=6 ST=2 TYP=1
	245	LEAR	43 NS	2322.0	0550.3	613.00	27.0			QL=6 ST=2 TYP=1
	9400	TYKW	5 S	0011.0	0012.7	3.0	11.0	4.0		
	9400	TYKW	29 PBI	0014.0		10.0	2.0	1.0		
	9400	TYKW	45 C	0039.0	0041.1	6.0	5.0	2.0		
	9400	TYKW	30 PBI	0045.0		10.0	2.0	1.0		
	1000	TYKW	32 ABS	0045.0	0110.0	85.0	-1.0	-0.5		
	9400	TYKW	31 ABS	0055.0	0109.0	65.0	-6.0	-3.0		
	2000	TYKW	32 ABS	0103.0	0109.0	30.0	-1.5	-0.5		
	3750	TYKW	32 ABS	0103.0	0109.0	57.0	-4.0	-1.0		
	2000	TYKW	5 S	0222.0	0222.3	1.0	1.0	.3		
	3750	TYKW	5 S	0222.0	0222.4	1.0	1.0	.3		
	500	HIRA	8 S	0222.0	0222.0	.1	130.0			0
	610	LEAR	8 S	0222.1	0222.3	.2	41.0			QL=6 ST=2 TYP=3
	410	LEAR	47 GB	0222.1	0222.3	.2	68.0			QL=6 ST=2 TYP=5
	245	LEAR	8 S	0222.3	0222.3	.2	11.0			QL=6 ST=2 TYP=3
	2950	GORK	2 S/F	0520.8	0522.5	4.3	3.0	1.0		
	3750	TYKW	5 S	0522.3	0522.5	1.0	3.0	1.0		
	1000	TYKW	5 S	0522.3	0522.5	.5	1.0	.3		
	2000	TYKW	5 S	0522.3	0522.5	1.0	3.0	.7		
	2000	TYKW	32 ABS	0525.0	0535.0	25.0	-1.0	-0.5		
	3750	TYKW	32 ABS	0527.0	0536.0	22.0	-2.0	-1.0		
	9400	TYKW	32 ABS	0529.0	0534.0	25.0	-2.0	-1.0		
	2950	GORK	20 GRF	0536.9	0633.0	242.00	3.7			
	3750	TYKW	32 ABS	0615.0	0622.0	35.0	-2.0	-1.0		
	9400	TYKW	32 ABS	0615.0	0625.0	30.0	-2.0	-1.0		
	2000	TYKW	32 ABS	0616.0	0622.0	30.0	-1.0	-0.5		
	2000	TYKW	5 S	0721.0	0722.0	4.0	2.0	0.7		
	9100	GORK	20 GRF	0804.8	0909.6	95.00	9.5			
	3750	TYKW	20 GRF	0805.0	0832.0	75.0	2.0	1.0		
	2000	TYKW	20 GRF	0815.0	0832.0	65.0	1.0	0.5		
	1470	POTS	1 S	1025.0	1032.1	12.0	2.0			
	536	ONDR	46 C	1150.0	1150.7	1.2	53.0			
	536	ONDR	8 S	1207.5	1207.5	.1	8.0			
	2800	OTTA	21 GRF	1510.0	1520.0	35.0	1.8	.9		
	2800	OTTA	8 S	1540.0	1540.3	.5	20.0	6.6		
	2800	OTTA	8 S	1632.2	1632.6	.5	3.8			
	2800	OTTA	22 GRF	1710.0	1747.0	75.0	3.0	1.5		
	2800	OTTA	1 S	1840.0	1842.0	10.0	1.0	.6		
2800	OTTA	20 GRF	1855.0	1904.0	20.0	2.0	1.0			
2800	OTTA	1 S	1930.0	1934.0	7.0	1.6	.9			
2800	OTTA	21 GRF	2040.0	2120.0	70.0	2.2	1.1			
3750	TYKW	20 GRF	2110.0	2118.0	35.0	2.0	1.0			
9400	TYKW	20 GRF	2110.0	2125.0	35.0	4.0	2.0			
2800	OTTA	8 S	2123.2	2123.4	.3	2.8				
9400	TYKW	28 PRE	2220.0	2221.3	4.0	4.0	2.0			
9400	TYKW	45 C	2224.0	2226.7	10.0	15.0	8.0			
3750	TYKW	20 GRF	2224.0	2228.0	35.0	1.0	.5			
9400	TYKW	30 PBI	2234.0		40.0	6.0	2.0			
9400	TYKW	5 S	2248.0	2249.0	3.0	3.0	1.0			
2000	TYKW	5 S	2250.0	2252.5	6.0	2.0	.7			
3750	TYKW	20 GRF	2330.0	2340.0	35.0	1.5	.7			
08	200	GORK	44 NS	0257.0E		551.00		5.0		
	200	HIRA	43 NS	0340.0	0654.0	370.00	20.0	4.0		MR
	100	GORK	43 NS	0504.6		183.0		10.0		
	260	ONDR	44 NS	0617.0E	0750.8	494.00	40.0			
	100	GORK	43 NS	1054.0		74.0		5.0		
	245	PALE	44 NS	1635.0E	2312.5	430.00	56.0			QL=6 ST=2 TYP=1
	245	LEAR	44 NS	2322.0E	0038.3		22.0			QL=6 ST=1 TYP=1
	9400	TYKW	5 S	0105.0	0107.4	10.0	3.0	1.0		
	1000	TYKW	45 C	0142.4	0142.7	.8	9.0	2.0		
	3750	TYKW	20 GRF	0220.0	0234.0	50.0	3.0	1.5		
	9400	TYKW	5 S	0231.8	0232.0	1.5	3.0	1.0		
	9400	TYKW	20 GRF	0358.0	0408.0	35.0	6.0	3.0		
	3750	TYKW	45 C	0359.0	0406.0	14.0	3.0	1.0		
	9400	TYKW	20 GRF	0535.0	0603.0	70.0	6.0	3.0		
	3750	TYKW	20 GRF	0543.0	0549.0	55.0	2.0	1.0		
	2950	GORK	20 GRF	0706.0	0957.4	277.00	5.0			
3750	TYKW	5 S	0745.0	0746.5	15.0	1.5	.7			

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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)		
08	9100	GORK	20 GRF	0844.7	0848.9	20.8	5.4			
	9100	GORK	22 GRF	0936.5	0956.1	148.00	16.0			
	9300	KISV	20 GRF	0938.0	0958.0	44.0	17.0			
	9500	POTS	20 GRF	0940.0	0950.0	40.00	17.0			
	3100	CRIM	20 GRF	0949.0	0953.0	15.0	4.0	1.0		
	536	ONDR	1 S	1253.0	1253.3	1.0	3.0			
	2800	OTTA	20 GRF	1330.0	1335.0	280.0	5.0	2.5		
	2800	OTTA	240 R	1930.0	1955.0	25.0	2.6	1.3		
	2800	OTTA	20 GRF	2025.0	2115.0	115.0	2.2	1.1		
3750	TYKW	20 GRF	2310.0	2320.0	90.0	1.5	.7			
09	100	GORK	44 NS	0255.0E		548.00		20.0		
	200	GORK	44 NS	0255.0E		548.00		5.0		
	245	LEAR	43 NS	0300.0	0516.8	396.00	219.0			QL=6 ST=2 TYP=1
	260	ONDR	44 NS	0557.0E		508.00	78.0			
	200	HIRA	43 NS	0613.0	0657.0	120.0	17.0	5.0		WL
	245	LEAR	43 NS	2322.0	0527.8	614.00	37.0			QL=6 ST=3 TYP=1
	9400	TYKW	5 S	0002.0	0002.4	2.00	6.0	2.00		
	2000	TYKW	32 ABS	0041.0	0121.0	45.0	-1.0	0.5		
	9395	PEKG	45 C	0045.0	0045.7	9.0	21.0	12.3		
	3750	TYKW	32 ABS	0048.0	0122.0	45.0	-5.0	-3.0		
	9400	TYKW	32 ABS	0050.0	0113.0	45.0	-4.0	-2.0		RAIN
	1000	TYKW	5 S	0116.0	0116.6	1.5	1.0	.3		
	2695	PENT		0122.0	0155.0	35.00	160.0			
	2840	PEKG	46 C	0125.0	0158.0	54.0	223.0	114.5		
	1000	TYKW	45 C	0127.0	0150.8	90.0	275.0	35.0		
	2000	TYKW	28 PRE	0128.0	0145.0	17.0	7.0	3.5		
	9395	PEKG	28 PRE	0129.0		11.0	24.3	11.2		
	2000	TYKW	45 C	0129.0	0131.7	6.0	3.0	1.0		
	3750	TYKW	28 PRE	0133.0	0146.7	15.0	9.0	4.0		
	9400	TYKW	28 PRE	0135.0	0148.0	13.0	12.0	6.0		
	4995	LEAR	47 GB	0138.1	0156.8		290.0			QL=6 ST=1 TYP=5
	2000	TYKW	45 C	0139.0	0140.3	4.0	27.0	5.0		
	3750	TYKW	5 S	0139.0	0140.6	5.0	31.0	8.0		
	9400	TYKW	5 S	0139.0	0140.6	5.0	16.0	5.0		
	500	HIRA	48 C	0139.3	0153.0	22.7	700.0	250.0		SL
	500	HIRA		0139.3	0156.9		620.0			ML
	500	HIRA		0139.3	0158.6		430.0			WL
	1415	LEAR	47 GB	0139.3	0159.3		320.0			QL=6 ST=1 TYP=5
	610	LEAR	8 S	0139.8	0140.1		36.0			QL=6 ST=1 TYP=3
	2695	LEAR	8 S	0139.8	0157.8		350.0			QL=6 ST=1 TYP=3
	1415	PALE	47 GB	0140.1	0140.3		72.0			QL=6 ST=1 TYP=5
	9395	PEKG	45 C	0141.0	0141.7	4.0	16.2	6.8		
	8800	LEAR	47 GB	0141.5	0156.8		219.0			QL=6 ST=1 TYP=5
	15400	LEAR	8 S	0141.8	0201.8		180.0			QL=6 ST=1 TYP=3
	2000	TYKW	45 C	0145.0	0157.9		285.0	70.0		
	9395	PEKG	46 C	0146.0	0153.0	23.0	204.0	132.0		
17000	NOBE	20 GRF	0146.8	0159.2	54.0	72.0			L	
35000	NOBE	20 GRF	0146.8	0159.2	54.0	57.0			O	
80000	NOBE	20 GRF	0146.8	0159.2	54.0	18.0				
410	LEAR	47 GB	0147.8	0157.1		740.0			QL=6 ST=1 TYP=5	
3750	TYKW	45 C	0148.0	0157.0	50.0	305.0	60.0			
9400	TYKW	45 C	0148.0	0157.9	60.0	170.0	55.0			
200	HIRA	48 C	0148.0	0156.6	160.0	350.0	46.0		WL	
200	HIRA		0148.0	0246.7		130.0			SL	
100	HIRA	48 C	0148.5	0156.0	191.0	2100.0	350.0			
100	HIRA		0148.5	0211.0		1050.0				
245	LEAR	8 S	0148.8	0149.0		21.0			QL=6 ST=1 TYP=3	
1415	PALE	47 GB	0148.8	0153.0	18.0	340.0			QL=6 ST=2 TYP=5	
245	LEAR	47 GB	0148.8	0155.6		330.0			QL=6 ST=1 TYP=5	
8800	PALE	47 GB	0151.3	0155.0	21.8	250.0			QL=6 ST=2 TYP=5	
4995	PALE	47 GB	0151.5	0154.1	20.6	270.0			QL=6 ST=2 TYP=5	
2695	PALE	47 GB	0151.5	0154.6	16.6	360.0			QL=6 ST=2 TYP=5	
15400	PALE	47 GB	0154.1	0154.8	15.9	110.0			QL=6 ST=2 TYP=5	
500	HIRA	30 PBI	0202.0	0202.0	300.0	42.0	7.0		ML	
500	HIRA	46 C	0214.1	0214.4	1.6	45.0	17.0		WL	
1415	PALE	47 GB	0215.0	0215.1	.3	62.0			QL=6 ST=2 TYP=5	
2840	PEKG	29 PBI	0219.0		70.0	14.0	4.2			
2000	TYKW	30 PBI	0222.0		195.0	13.0	6.0			
2000	TYKW	45 C	0224.0	0227.7	7.0	4.0	1.0			
2000	TYKW	45 C	0235.5	0245.4	14.0	32.0	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		
09	500	HIRA	46 C	0237.3	0244.1	10.0	150.0	40.0		ML
	9400	TYKW	29 PBI	0248.0		90.0	14.0	6.0		
	3750	TYKW	29 PBI	0248.0		170.0	16.0	5.0		
	500	HIRA	46 C	0250.1	0252.4	3.4	160.0	30.0		ML
	2000	TYKW	45 C	0250.3	0251.0	3.0	12.0	3.0		
	1000	TYKW	30 PBI	0257.0		170.0	4.0	2.0		
	1000	TYKW	45 C	0258.0	0310.2	55.0	21.0	1.5D		
	650	GORK	23 GRF	0300.0E	0306.0	95.0D	5.0			
	950	GORK	23 GRF	0300.0E	0306.6	78.0D	3.7			
	2000	TYKW	45 C	0302.7	0303.9	2.30	10.0	1.5D		
	950	GORK	4 S/F	0303.0	0304.0	2.7	11.6			
	650	GORK	4 S/F	0306.0	0310.1	5.2	19.0			
	950	GORK	46 C	0307.5	0308.5	3.8	10.5			
	950	GORK		0307.5	0309.9		18.5			
	650	GORK	4 S/F	0313.4	0314.6	3.6	14.0			
	950	GORK	4 S/F	0330.0	0331.2	1.7	9.0			
	650	GORK	46 C	0330.0	0331.3	2.0	9.9			
	9100	GORK	26 FAL	0345.0E	0345.0	180.0D	19.5			
	2950	GORK	26 FAL	0345.0E	0345.0	420.0D	13.0			
	1000	TYKW	45 C	0354.0	0354.9	2.0	3.0	.7		
	1000	TYKW	45 C	0407.7	0411.3	4.5	2.0	.5		
	1000	TYKW	45 C	0415.0	0416.9	3.0	2.0	.5		
	536	ONDR	46 C	0608.0	0609.0	2.0	61.0			
	3750	TYKW	20 GRF	0610.0	0627.0	90.0	2.0	1.0		
	9400	TYKW	20 GRF	0610.0	0630.0	100.0U	4.0	2.0U		RAIN
	2000	TYKW	21 GRF	0610.0	0632.0	90.0	2.0	1.0		
	1000	TYKW	45 C	0615.0	0626.1	35.0	3.0	.3		
	2000	TYKW	45 C	0623.0	0626.0	5.0	4.0	1.0		
	257	TRST	46 C	0709.0	0709.2	.4	300.0			2L
	237	TRST	42 SER	0710.4	0711.3	.9	70.0			3L
	237	TRST	46 C	0726.3	0726.4	.4	200.0			1L
	9400	TYKW	20 GRF	0800.0U	0809.0U	50.0U	4.0	2.0U		
	3750	TYKW	20 GRF	0800.0	0809.0	50.0	3.0	1.5		
	536	ONDR	46 C	0806.0	0808.5	4.0	47.0			
	500	HIRA	45 C	0807.0	0808.4	3.7	38.0	20.0		0
	430	KRAK	4 S/F	0807.0	0808.5	4.0	8.0	3.0		
	650	GORK	46 C	0808.2	0808.7	2.5	8.0			
	650	GORK		0808.2	0810.0		8.0			
	536	ONDR	40 F	0845.0	0846.0	2.0	28.0			
	237	TRST	45 C	0847.8	0847.8	.2	50.0			3L
3100	CRIM	26 FAL	0900.0	1000.0		7.0				
9100	GORK	21 GRF	1015.7	1112.3	104.0D	10.0				
2950	GORK	20 GRF	1018.9	1140.0	122.0D	3.3				
430	KRAK	45 C	1022.5	1025.2	4.0	30.0	10.0			
536	ONDR	40 F	1106.5	1107.0	1.5	41.0				
15000	KISV	45 C	1106.9	1107.3	1.5	12.0				
9300	KISV	45 C	1106.9	1107.3	10.0	13.0				
9300	KISV		1106.9	1107.5		12.0				
15000	KISV		1106.9	1107.6		9.0				
9100	GORK	2 S/F	1106.9	1107.6	3.9	9.0				
536	ONDR	46 C	1338.5	1339.2	1.2	30.0				
808	ONDR	8 S	1339.0	1339.5	.6	40.0				
536	ONDR	40 F	1351.3	1354.5	5.5	60.0				
808	ONDR	40 F	1351.5	1355.0	5.0					
808	ONDR	8 S	1401.0	1401.5	1.0					
536	ONDR	8 S	1405.0	1405.1	.2	5.0				
536	ONDR	46 C	1411.0	1411.3	1.0	39.0				
2800	OTTA	21 GRF	1540.0	1700.0	210.0	3.4	1.7			
327	TRST	46 C	1541.9	1542.1	.4	146.0			4L	
408	TRST	46 C	1541.9	1542.2	.4	90.0			1R	
2800	OTTA	8 S	1543.0	1543.0	.1	4.0				
237	TRST	42 SER	1700.4	1700.4	.5	125.0			3L	
237	TRST	46 C	1700.7	1700.9	.3	115.0			2L	
2695	SGMR	47 GB	1733.0	1733.5	2.8	66.0			QL=6 ST=2 TYP=5	
1415	SGMR	47 GB	1734.0	1735.1	1.6	139.0			QL=6 ST=2 TYP=5	
245	SGMR	47 GB	1918.6	1918.6	.2	63.0			QL=6 ST=2 TYP=5	
2800	OTTA	20 GRF	2150.0	2215.0	110.0	1.6	.8			
3750	TYKW	20 GRF	2200.0	2215.0	75.0	2.0	1.0			
9400	TYKW	45 C	2213.0	2215.4	6.0	8.0	2.0			
245	SGMR	47 GB	2323.1	2323.3	.4	84.0			QL=6 ST=2 TYP=5	
9400	TYKW	45 C	2347.0	2349.2	5.0	6.0	1.5			

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)		
10	200	GORK	43 NS	0325.0		515.00		10.0		
	200	HIRA	43 NS	0435.0	0505.0	320.00	17.0	5.0		0
	100	GORK	43 NS	0442.0		248.0		30.0		
	260	ONDR	44 NS	0615.0E		428.00	42.0			
	100	GORK	43 NS	0909.0		150.0		5.0		
	410	SGMR	44 NS	0939.0E	1020.5	124.00	100.0			QL=1 ST=2 TYP=1
	245	SGMR	44 NS	0939.0E	1020.5		169.0			QL=1 ST=1 TYP=1
	200	HIRA	44 NS	1936.0E	2039.0	240.00	8.0	2.0		0
	500	HIRA	8 S	0730.7	0030.9	.3	23.0			WL
	2695	PENT	8 S	0030.9	0031.0	.5	3.0	1.2		
	1000	TYKW	32 ABS	0045.0	0200.0	190.0	-1.0	-0.5		
	2000	TYKW	32 ABS	0125.0	0245.0	150.0	-2.0	-1.0		
	9400	TYKW	32 ABS	0126.5	0127.7	3.0	-8.0	-3.0		
	9400	TYKW	32 ABS	0130.0	0225.0	200.00	-8.0	-4.00		RAIN
	3750	TYKW	32 ABS	0135.0	0230.0	140.0	-3.0	-1.5		
	2950	GORK	22 GRF	0456.3	0555.1	420.00	7.0			
	500	HIRA	22 GRF	0505.0	0538.9	70.0	6.0	2.0		WL
	1000	TYKW	28 PRE	0510.0	0527.0	26.0	2.5	1.0		
	2000	TYKW	21 GRF	0510.0	0535.0	190.0	3.0	1.5		
	3750	TYKW	20 GRF	0510.0	0555.0	200.0	5.0	2.5		
	9400	TYKW	20 GRF	0510.0	0555.0	140.00	4.0	2.00		
	650	GORK	23 GRF	0510.8	0554.0	81.5	2.0			
	9100	GORK	22 GRF	0515.0	0851.6	266.0	9.0			
	2840	PEKG	20 GRF	0521.0	0557.0	39.0	9.3	3.1		
	950	GORK	23 GRF	0527.5	0546.3	87.3	3.0			
	3100	CRIM	24 R	0524.6	0550.0		9.0			
	1000	TYKW	45 C	0536.0	0559.3	33.0	290.0	10.0		
	950	GORK	2 S/F	0537.4	0537.8	1.5	4.3			
	2000	TYKW	45 C	0547.0	0550.8	15.0	6.0	1.0		
	500	HIRA	45 C	0547.2	0548.9	4.0	10.0	5.0		WL
	950	GORK	4 S/F	0547.5	0549.1	2.6	47.0			
	650	GORK	4 S/F	0548.0	0548.8	2.2	24.0			
	610	LEAR	47 GB	0548.5	0548.8	1.0	69.0			QL=6 ST=2 TYP=5
	1415	ATHN	8 S	0549.0	0551.0	2.0	15.0			QL=5 ST=2 TYP=3
	1415	LEAR	8 S	0549.1	0550.6	1.7	18.0			QL=6 ST=2 TYP=3
	950	GORK	4 S/F	0554.0	0555.0	2.5	43.0			
	1415	ATHN	4 S/F	0554.0	0555.0	5.0	11.0			QL=5 ST=2 TYP=3
	650	GORK	46 C	0554.7	0555.1	6.3	3.0			
	650	GORK		0554.7	0558.6		9.0			
	950	GORK	4 S/F	0555.5	0559.3	3.4	320.0			
	500	HIRA	45 C	0604.0	0604.7	4.0	12.0	6.0		WL
	650	GORK	46 C	0604.1	0605.5	3.8	66.0			
	650	GORK		0604.1	0606.2		56.0			
	610	LEAR	47 GB	0604.3	0605.0	3.0	92.0			QL=6 ST=2 TYP=5
	950	GORK	4 S/F	0605.0	0606.1	2.8	375.0			
	1000	TYKW	30 PBI	0609.0		120.0	1.0	.5		
	1000	TYKW	5 S	0611.0	0611.4	1.5	5.0	1.5		
	1000	TYKW	45 C	0620.0	0621.3	3.0	3.0	.5		
	1000	TYKW	45 C	0714.0	0715.8	6.0	16.0	1.5		
	808	ONDR	4 S/F	0715.0	0716.0	1.5				
810	KRAK	4 S/F	0716.0	0717.0	2.5	13.0	5.0			
430	KRAK	4 S/F	0754.0	0755.5	3.0	8.0	3.0			
430	KRAK	40 F	0759.0	0800.0	7.0	4.0	2.0			
4995	ATHN	4 S/F	0859.0	0900.0	3.0	9.0			QL=6 ST=2 TYP=3	
8800	ATHN	4 S/F	0859.0	0900.0	3.0	11.0			QL=6 ST=2 TYP=3	
9300	KISV	1 S	0859.7	0900.2	1.0	9.0				
430	KRAK	42 SER	0900.0	0901.0	24.0	11.0				
430	KRAK		0900.0	0921.5		36.0				
3100	CRIM	26 FAL	0900.0	1100.0		6.0				
9100	GORK	22 GRF	1012.0E	1023.4	108.00	10.0				
9300	KISV	2 S/F	1014.0	1022.8	14.0	15.0				
536	ONDR	8 S	1015.7	1015.7	.3	16.0				
15000	KISV	1 S	1017.0	1023.5	10.0	14.0				
9395	PEKG	8 S	1023.0	1023.3	1.0	34.4	12.2			
2840	FEKG	1 S	1023.0	1023.3	1.0	5.6	2.1			
408	TRST	45 C	1243.7	1243.9	.4	59.0			6R	
237	TRST	42 SER	1243.7	1243.9	.4	120.0			2L	
327	TRST	41 F	1243.7	1243.9	.4	78.0			13L	
536	ONDR	40 F	1250.0	1250.7	1.0	7.0				
2800	OTTA	32 ABS	1545.0	1630.0	95.0	-4.0	-1.8			
9400	TYKW	5 S	2214.0	2214.7	2.0	3.0	1.0			



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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		
10	2800	OTTA	240 R	2225.0	2240.0	15.0	2.0	1.2		
	2000	TYKW	5 S	2227.0	2228.0	3.0	1.0	.3		
	3750	TYKW	20 GRF	2227.0	2240.0	105.0	2.0	1.0		
	2000	TYKW	21 GRF	2232.0	2235.0	55.0	1.0	.5		
	2000	TYKW	5 S	2259.0	2300.0	4.0	1.0	.3		
11	260	ONDR	44 NS	0717.0E	1343.5					
	200	HIRA	44 NS	1936.0E	2042.0	240.00	12.0	3.0		0
	3750	TYKW	20 GRF	0200.0	0235.0U	140.0	2.0	1.0U		INTERFERENCE
	2950	GORK	30 PBI	0254.0E		384.00	6.8			
	3750	TYKW	21 GRF	0445.0	0502.0	60.0	2.0	1.0		
	9100	GORK	1 S	0523.4	0530.0	6.6U	7.0	3.0		
	9400	TYKW	5 S	0529.5	0530.0	1.5	5.0	2.0		
	3750	TYKW	5 S	0529.5	0530.1	1.5	2.0	.7		
	2950	GORK	1 S	0529.5	0530.2	3.8	1.2	.5		
	245	LEAR	47 GB	0612.8	0613.0	.3	100.0			QL=6 ST=2 TYP=5
	410	LEAR	8 S	0613.0	0613.1	.1	8.0			QL=6 ST=2 TYP=3
	3750	TYKW	20 GRF	0620.0	0650.0	100.0	2.0	1.0		
	950	BORD	46 C	0705.4	0706.0	.6	11.0	3.0		
	2950	GORK	20 GRF	0931.2	1117.6	149.00	2.9			
	536	ONDR	8 S	1126.0	1126.0	.1	6.0			
	536	ONDR	8 S	1230.8	1231.0	.5	5.0			
	2800	OTTA	21 GRF	1335.0	1340.0	55.0	5.4			
	2800	OTTA	4 S/F	1345.0	1347.0	4.0	18.0	1.0		
	3000	POTS	4 S/F	1345.0	1346.9	10.0U	17.0			
	9500	POTS	4 S/F	1345.0	1346.9	28.0	46.0			
	2800	OTTA	29 PBI	1349.0	1349.0	15.0	4.6	1.3		
	2800	OTTA	1 S	1712.0	1713.3	2.5	1.0	.5		
	2800	OTTA	240 R	2105.0	2135.0	30.0	2.2	1.1		
	3750	TYKW	21 GRF	2130.0	2150.0	85.0	2.0	1.0		
	9400	TYKW	20 GRF	2205.0	2210.0	40.0	3.0	1.5		
500	HIRA	41 F	2205.2	2205.2	4.5	15.0	4.0		0	
3750	TYKW	45 C	2207.0	2210.8	8.0	2.0	.7			
12	260	ONDR	44 NS	0606.0E	1251.0	469.00	41.0			
	245	LEAR	43 NS	2321.0	0624.6	616.00	36.0			QL=6 ST=2 TYP=1
	9400	TYKW	5 S	0035.0	0036.1	6.0	6.0	2.0		
	2000	TYKW	45 C	0119.0	0119.7	2.0	10.0	3.5		
	2695	PENT	8 S	0119.5	0119.6	.3	2.8			
	3750	TYKW	45 C	0133.0	0145.0	20.0	2.0	1.0		
	9400	TYKW	28 PRE	0133.0	0138.3	4.0	2.0	1.0		
	9400	TYKW	45 C	0141.0	0141.7	7.0	18.0	5.0		
	9400	TYKW	30 PBI	0148.0		10.0	2.0	1.0		
	3750	TYKW	31 ABS	0153.0	0423.0	176.0	-4.0	-2.0		
	2000	TYKW	32 ABS	0155.0	0405.0	185.0	-1.5	-0.7		
	1000	TYKW	32 ABS	0155.0	0440.0	200.0	-2.0	-1.0		
	9400	TYKW	31 ABS	0158.0	0210.0	150.0	-4.0	-2.0		
	2000	TYKW	5 S	0233.0	0235.4	4.0	2.0	1.0		
	9400	TYKW	45 C	0234.0	0235.2	3.0	4.0	1.0		
	3750	TYKW	5 S	0234.0	0235.3	4.0	5.0	2.5		
	2000	TYKW	29 PBI	0237.0		40.0	1.0	.5		
	3750	TYKW	30 PBI	0237.0		40.0	2.0	1.0		
	3750	TYKW	5 S	0243.0	0245.0	8.0	1.0	.3		
	2950	GORK	25 GRF	0309.0E	0521.60	240.0	12.5			
	9400	TYKW	5 S	0329.5	0330.1	1.5	5.0	1.5		
	9100	GORK	1 S	0329.6	0330.2	1.4	5.4	2.0		
	9400	TYKW	5 S	0334.0	0334.4	1.0	4.0	1.0		
	9400	TYKW	5 S	0349.0	0349.7	1.0	3.0	1.0		
	9100	GORK	21 GRF	0421.0	0422.7	21.0	6.3			
	9400	TYKW	21 GRF	0434.0	0456.0	175.0	2.0	1.0		
	9400	TYKW	5 S	0437.0	0439.1	3.0	24.0	7.0		
	9100	GORK	3 S	0438.2	0439.0	2.3	25.0	10.0		
	8800	LEAR	8 S	0438.5	0439.0	1.0	31.0			QL=6 ST=2 TYP=3
	15000	KISV	2 S/F	0438.5	0439.1	2.5	10.0			
	15400	LEAR	8 S	0438.8	0439.0	.3	15.0			QL=6 ST=2 TYP=3
	9400	TYKW	29 PBI	0440.0		7.0	6.0	2.0		
9100	GORK	25 GRF	0450.2	0527.4	67.0	18.0				
2840	PEKG	46 C	0458.0	0527.9	40.0	23.6	11.2			
9395	PEKG	3 S	0500.0	0501.5	2.0	24.1	10.2			
9400	TYKW	21 GRF	0500.0	0513.0	110.0	8.0	4.0			
9395	PEKG	21 GRF	0500.0	0527.6	60.0	21.1	12.2			

S O L A R R A D I O E M I S S I O N  
O U T S T A N D I N G O C C U R R E N C E S

21  
Jul 85

J U L Y            1 9 8 5

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)		
12	9300	KISV	23 GRF	0500.4	0502.3	61.0	23.0			
	9400	TYKW	5 S	0500.5	0502.3	3.5	22.0	7.0		
	3750	TYKW	45 C	0501.0	0527.8	45.0	21.0	8.0		
	9100	GORK	1 S	0501.2	0502.3	2.3	17.0	8.0		
	2000	TYKW	45 C	0502.0	0528.7	45.0	25.0	5.0		
	9400	TYKW	29 PBI	0504.0		6.0	3.0	1.5		
	3100	CRIM	3 S	0504.0	0527.5	31.0	24.0	8.0		
	2950	GORK	45 C	0510.5	0512.5	8.1	2.1			
	2950	GORK		0510.5	0516.4		3.1			
	9400	TYKW		0515.0	0527.5		15.0			
	9400	TYKW	45 C	0515.0	0539.3	31.0	17.0	7.0		
	1000	TYKW	45 C	0522.0	0528.0	24.0	5.0	.7		
	2950	GORK	46 C	0522.5	0527.9	13.5	10.0			
	2950	GORK		0522.5	0528.6		9.0			
	2950	GORK		0522.5	0530.9		6.0			
	3100	CRIM	29 PBI	0535.0	0535.0	65.0	11.0	4.0		
	2840	PEKG	29 PBI	0538.0		32.0	6.8	3.2		
	9100	GORK	1 S	0538.5	0539.3	1.6	8.0	4.0		
	9400	TYKW	29 PBI	0546.0		25.0	6.0	3.0		
	3750	TYKW	29 PBI	0546.0		100.0	7.0	1.5		
	2000	TYKW	29 PBI	0547.0		100.0	4.0	1.5		
	9400	TYKW	5 S	0613.5	0615.8	5.5	98.0	23.0		
	15000	KISV	4 S/F	0613.7	0615.6	4.5	216.00			
	9100	GORK	3 S	0613.8	0615.6	4.6	87.0	36.0		
	9395	PEKG	3 S	0614.0	0615.6	6.0	126.0	57.0		
	17000	NOBE	3 S	0614.0	0615.6	3.0	310.0			R
	9300	KISV	4 S/F	0614.1	0615.6	4.0	75.0			
	35000	NOBE	3 S	0615.0	0615.3	2.0	250.0			R
	80000	NOBE	3 S	0615.0	0615.3	2.0	73.0			
	17000	NOBE	29 PBI	0617.0	0617.0	37.0	25.0			0
	9400	TYKW	29 PBI	0619.0		10.0	6.0	2.0		
	35000	NOBE	29 PBI	0632.0	0632.0	43.0	48.0			0
	9400	TYKW	20 GRF	0652.0	0657.0	15.0	2.0	1.0		
9100	GORK	3 S	0656.7	0657.9	3.1	32.0	15.0			
9400	TYKW	5 S	0732.0	0734.3	10.0	3.0	1.0			
2950	GORK	20 GRF	0830.0E	0939.5	198.00	4.2				
9300	KISV	2 S/F	1003.0	1003.7	2.0	15.0				
15000	KISV	2 S/F	1003.5	1003.7	1.5	24.0				
9100	GORK	1 S	1006.3	1006.7	2.7	20.0	7.0			
430	KRAK	2 S/F	1021.5	1022.5	1.5	5.0	2.0			
2800	OTTA	20 GRF	1134.0	1136.0	20.0	1.4	.7			
9300	KISV	2 S/F	1222.1	1222.3	1.5	8.0				
2800	OTTA	20 GRF	1520.0	1530.0	40.0	2.0	1.0			
15400	SGMR	47 GB	1749.1	1749.3	.9	110.0			QL=6 ST=2 TYP=5	
2800	OTTA	32 ABS	1900.0	1925.0	50.0	-2.0	-1.0			
13	260	ONDR	44 NS	0559.0E		546.00	14.0			
	9395	PEKG	3 S	0142.0	0143.4	2.0	22.7	10.9		
	2840	PEKG	1 S	0143.0	0143.8	2.0	6.1	3.2		
	9400	TYKW	5 S	0241.0	0242.6	4.0	14.0	7.0		
	8800	LEAR	8 S	0242.3	0242.6	.5	17.0			QL=6 ST=2 TYP=3
	9400	TYKW	30 PBI	0245.0		20.0	3.0	1.5		
	2950	GORK	23 GRF	0248.0E	0716.2	348.00	4.6			
	9400	TYKW	5 S	0258.0	0300.0U	10.0	6.0	2.00		
	2000	TYKW	5 S	0528.5	0529.2	1.5	1.5	.5		
	9300	KISV	21 GRF	0552.4	0601.7	24.0	18.0			
	9100	GORK	21 GRF	0552.5	0603.4	19.5	11.0			
	9395	PEKG	3 S	0601.0	0601.5	3.0	29.7	17.3		
	9400	TYKW	5 S	0601.0	0601.7	3.00	14.0	5.00		INTERFERENCE
	2840	PEKG	1 S	0601.0	0602.5	3.0	1.8	.7		
	9100	GORK	2 S/F	0601.1	0601.7	1.8	15.0	5.0		
	8800	LEAR	8 S	0601.3	0601.6	.8	25.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	0601.5	0601.6	.3	16.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	0601.6	0601.8	.4	11.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0603.0E	0603.0U	5.00	2.0	.70		
	3750	TYKW	5 S	0624.0	0625.0	15.0	1.0	.5		
	2000	TYKW	5 S	0624.0	0625.4	7.0	1.0	.3		
9300	KISV	2 S/F	0644.4	0644.9	1.5	5.0				
9100	GORK	2 S/F	0644.4	0645.0	1.3	8.0	4.0			
9400	TYKW	5 S	0644.5	0644.8	1.5	6.0	2.0			
9395	PEKG	3 S	0654.0	0657.0	9.0	22.7	14.3			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

JULY 1985

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
13	2000	TYKW	20 GRF	0654.0	0706.0	70.0	1.5	.7		
	3750	TYKW	5 S	0655.0	0657.7	5.0	12.0	5.0		
	9400	TYKW	5 S	0655.0	0657.9	6.0	31.0	12.0		
	15000	KISV	1 S	0655.1	0657.6	3.0	11.0			
	9300	KISV	23 GRF	0655.2	0657.9	36.0	28.0			
	9100	GORK	21 GRF	0655.5	0719.4	38.0	11.0			
	2840	PEKG	1 S	0656.0	0656.8	4.0	3.6	2.1		
	2950	GORK	1 S	0656.3	0657.6	2.8	2.5	1.0		
	4995	LEAR	8 S	0657.1	0657.8	1.5	21.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	0657.1	0658.0	1.2	21.0			QL=6 ST=2 TYP=3
	8800	LEAR	4 S/F	0657.1	0658.1	2.5	36.0			QL=6 ST=2 TYP=3
	1000	TYKW	29 PBI	0700.0		80.0	4.0	2.0		
	1000	TYKW	30 PBI	0701.0		35.0	4.0	2.0		
	237	TRST	46 C	0710.2	0710.3	.3	60.0			2L
	9400	TYKW	5 S	0714.0	0716.0	9.0	3.0	1.0		
	15400	SGMR	47 GB	1318.5	1319.5	1.8	260.0			QL=6 ST=2 TYP=5
	9500	POTS	3 S	1318.8	1320.4	15.0	82.0			
	8800	SGMR	47 GB	1319.1	1319.3	1.0	66.0			QL=6 ST=2 TYP=5
	536	ONDR	8 S	1322.5	1322.5	.3	13.0			
	536	ONDR	8 S	1354.0	1354.0	.3	9.0			
	2800	OTTA	32 ABS	1415.0	1455.0	60.0	-2.0	-1.0		
	15400	SGMR	47 GB	1842.5	1842.8	.8	130.0			QL=1 ST=2 TYP=5
	2800	OTTA	20 GRF	1855.0	1905.0	25.0	1.6	.8		
2000	TYKW	45 C	2213.0	2213.6	1.5	4.0	.7			
1000	TYKW	45 C	2213.0	2213.8	1.5	36.0	1.5			
2695	PENT	21 GRF	2355.0	0005.0	55.0	1.6	.8			
3750	TYKW	5 S	2355.5	2357.6	3.5	3.0	1.5			
2695	PENT	1 S	2356.0	2357.5	2.5	1.0	.5			
3750	TYKW	29 PBI	2359.0		40.0	1.5	.7			
14	260	ONDR	43 NS	0633.5	0903.5	203.5	5.0			
	3750	TYKW	5 S	0327.0	0329.5	10.0	1.0	.5		
	3750	TYKW	20 GRF	0433.0	0455.0	70.0	1.5	.7		
	9395	PEKG	3 S	0643.0	0646.6	5.0	24.4	10.2		
	2950	GORK	20 GRF	0825.8	0828.5	19.9	1.0			
	536	ONDR	42 SER	1352.0	1424.0	33.00	24.0			
260	ONDR	46 C	1424.0	1424.5	1.0	14.0				
15	930	BORD	46 C	0719.0	0719.8	.9	53.0	5.0		
	260	ONDR	46 C	0825.0	0825.0	.5	4.0			
	260	ONDR	4 S/F	0839.0	0839.0	1.0	3.0			
	536	ONDR	8 S	1206.8	1206.9	.3	45.0			
	930	BORD	8 S	1220.2	1220.2	.6	154.0	3.0		
16	204	IZMI	4 S/F	0707.4	0707.5	1.2	80.0	40.0		
	930	BORD	46 C	0816.0	0816.4	.6	82.0	4.0		
	260	ONDR	46 C	0818.0	0820.5	4.0	7.0			
	430	KRAK	45 C	0900.5	0904.5	9.5	10.0	3.0		
	430	KRAK	4 S/F	0921.2	0922.5	3.5	4.0	2.0		
	260	ONDR	8 S	1012.0	1012.0	.1	12.0			
930	BORD	46 C	1224.7	1224.8	.4	75.0	3.0			
17	1000	TYKW	45 C	0324.0	0335.3	36.0	6.0	1.0		
	950	GORK	21 GRF	0324.3	0327.6	24.5	1.0			
	650	GORK	23 GRF	0325.0	0339.9	20.2	2.0			
	200	HIRA	42 SER	0325.3	0326.8	12.3	140.0			0
	200	GORK	46 C	0325.6	0326.5	25.0	500.0			
	200	GORK		0325.6	0328.3		75.0			
	200	GORK		0325.6	0334.5		20.0			
	500	HIRA	45 C	0325.6	0334.9	30.0	10.0	2.0		0
	200	GORK		0325.6	0335.9		20.0			
	100	HIRA	42 SER	0325.6	0339.3	26.3	250.0			
	100	GORK	46 C	0325.7	0327.0	16.5	180.0			
	100	GORK		0325.7	0330.5		50.00			
	100	GORK		0325.7	0339.3		250.0			
	245	LEAR	47 GB	0325.8	0328.0	2.5	77.0			QL=6 ST=2 TYP=5
	410	LEAR	4 S/F	0330.8	0334.8	10.0	6.0			QL=6 ST=2 TYP=3
	610	LEAR	4 S/F	0330.8	0335.3	9.0	10.0			QL=6 ST=2 TYP=3
2000	TYKW	45 C	0331.0	0333.0	20.0	1.0	.3			
245	LEAR	4 S/F	0331.6	0334.3	6.7	9.0			QL=6 ST=2 TYP=3	
650	GORK	46 C	0331.7	0335.1	7.2	8.0				

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

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JULY 1985

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)		
17	650	GORK		0331.7	0336.4		5.0			
	950	GORK	45 C	0332.2	0333.9	4.4	2.5			
	950	GORK		0332.2	0335.4		3.5			
	930	BORD	8 S	1230.6	1230.8	.5	36.0	3.0		
	950	BORD	41 F	1424.0	1424.2	.5	11.0	2.0		
18	245	LEAR	8 S	0238.6	0238.6	.2	4.0			QL=6 ST=2 TYP=3
	1470	POTS	4 S/F	0918.6	0919.8	6.9	5.0			
	430	KRAK	46 C	1045.5	1050.0	6.5	17.0	5.0		
	930	BORD	8 S	1219.8	1219.8	.3	17.0	2.0		
	1470	POTS	40 F	1222.6	1230.9	22.0	7.0			
19	930	BORD	41 F	0745.4	0745.9	.8	15.0	3.0		
	536	ONDR	42 SER	1158.5	1158.5	73.0	31.0			
	930	BORD	8 S	1212.8	1212.8	.4	103.0	3.0		
	100	HIRA	42 SER	2350.6	2353.0	7.7	740.0			
	2695	PENT	20 GRF	2355.0	2359.0	20.0	4.0	1.8		
	3750	TYKW	5 S	2355.0	2359.0	20.0	3.0	1.00		
	2000	TYKW	5 S	2355.0	2359.0	25.0	4.0	1.5		
	1000	TYKW	5 S	2355.0	2359.4	25.0	6.0	2.00		
500	HIRA	27 RF	2356.6	0002.0	15.0	3.0	2.0		0	
22	260	ONDR	6 S	0948.0	0948.5	1.0	2.0			
	930	BORD	8 S	1238.0	1238.0	.2	12.0	2.0		
23	260	ONDR	8 S	0849.5	0849.6	.3	2.0			
24	260	ONDR	8 S	1131.0	1131.0	.3	9.0			
	930	BORD	8 S	1200.9	1200.9	.2	8.0	2.0		
	930	BORD	46 C	1709.6	1710.0	1.0	144.0	3.0		
25	260	ONDR	2 S/F	1020.0	1020.0	.5	2.0			
	260	ONDR	8 S	1131.3	1131.3	.2	2.0			
	930	BORD	8 S	1223.6	1223.7	.3	10.0	2.0		
	536	ONDR	8 S	1258.0	1258.0	.3	17.0			
	9500	POTS	4 S/F	1421.0	1421.2	1.2	62.0			
26	260	ONDR	44 NS	0807.0		454.00	6.0			
	536	ONDR	42 SER	1116.0	1125.0	.9	34.0			
	536	ONDR	8 S	1211.0		.2	16.0			
	536	ONDR	42 SER	1305.5	1323.5	26.0	30.0			
	33	UPIC	2 S/F	1544.5	1544.9	.5				
	29	UPIC	2 S/F	1545.0	1545.2	.5				
	3750	TYKW	21 GRF	2210.0	2230.0	90.0	1.5	.7		
	3750	TYKW	5 S	2214.8	2215.4	1.5	2.0	.7		
	1000	TYKW	45 C	2235.0	2235.4	2.0	6.0	1.0		
	2000	TYKW	45 C	2235.0	2237.4	5.0	7.0	.5		
500	HIRA	8 S	2235.0	2235.4	.6	2.0			0	
27	245	LEAR	43 NS	2317.0	0720.1	627.00	29.0			QL=6 ST=2 TYP=1
	33	UPIC	3 S	1552.4	1552.6	.4				
	29	UPIC	1 S	1552.6	1552.7	.5				
28	260	ONDR	44 NS	0614.0E	0745.0	480.00	75.0			
	200	HIRA	43 NS	2100.0	0626.0	760.00	9.0	4.0		WL
	245	LEAR	43 NS	2316.0	0220.8	628.00	40.0			QL=6 ST=2 TYP=1
	500	HIRA	8 S	0004.7	0004.7	.3	5.0			0
	500	HIRA	42 SER	0308.0	0308.2	7.7	4.0			0
	2000	TYKW	5 S	2312.8	2313.0	0.5	5.0	1.0		
	2695	PENT	8 S	2312.9	2313.0	.3	6.4			
	3750	TYKW	20 GRF	2313.0	2316.0	30.0	2.0	1.0		
29	200	GORK	44 NS	0558.0E		542.00		5.0		
	260	ONDR	44 NS	0550.0E	0606.5	504.00	134.0			
	204	IZMI	43 NS	0600.0		360.0	20.0			
	245	LEAR	43 NS	2315.0	0811.0	629.00	68.0			QL=6 ST=2 TYP=1
	2840	PEKG	1 S	0605.0	0607.1	4.0	6.6	2.4		
	536	ONDR	8 S	0606.0	0606.5	1.0	13.0			
	500	HIRA	46 C	0606.0	0606.6	3.0	13.0	2.0		WL
	200	HIRA	46 C	0606.0	0606.7	2.0	550.0	100.0		0
113	POTS	4 S/F	0606.1	0606.7	3.7	1800.0	50.0			

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

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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)		
29	30	POTS	4 S/F	0606.1	0606.9	2.5	7000.0	700.0		
	234	POTS	4 S/F	0606.2	0606.6	3.8	2300.0	100.0		
	204	IZMI	7 C	0606.2	0607.0	1.4	560.0	200.0		
	100	HIRA	46 C	0606.3	0606.8	2.8	1800.0	210.0		
	100	GORK	46 C	0606.3	0606.9	1.0	1350.0			
	100	GORK		0606.3	0607.0		1200.0			
	200	GORK	4 S/F	0606.3	0607.0	3.3	790.0			
	245	LEAR	49 GB	0606.3	0607.0	2.7	920.0			QL=6 ST=3 TYP=6
	650	GORK	2 S/F	0606.3	0607.0	1.4	7.2			
	410	LEAR	8 S	0606.6	0607.1	1.5	21.0			QL=6 ST=3 TYP=3
	2950	GORK	2 S/F	0606.7	0607.0	3.0	3.5			
	29	UPIC	1 S	0606.7	0607.3	1.5				
	950	GORK	1 S	0606.9	0607.4	.5	3.2	1.5		
	4995	ATHN	4 S/F	0607.0	0607.0	3.0	4.0			QL=5 ST=2 TYP=3
	610	LEAR	8 S	0607.0	0607.1	.1	9.0			QL=6 ST=3 TYP=3
	536	ONDR	41 F	0753.0	0753.5	4.0	11.0			
	33	UPIC	2 S/F	0913.0	0913.4	.5				
	29	UPIC	1 S	0913.1	0913.2	.2				
	9300	KISV	2 S/F	1129.6	1130.5	2.0	10.0			
	536	ONDR	8 S	1220.2	1220.5	.5	21.0			
930	BORD	46 C	1236.3	1237.1	1.0	8.0	4.0			
2800	OTTA	21 GRF	1558.0	1606.0	25.0	3.0	1.0			
2800	OTTA	40 F	1603.0	1604.0	4.0	4.8				
930	BORD	46 C	1603.0	1604.2	3.2	92.0	8.0			
2800	OTTA	1 S	1615.0	1617.5	5.0	2.0	.9			
930	BORD	8 S	1635.6	1635.7	.4	13.0	2.0			
30	260	ONDR	44 NS	0549.0E	0811.0	496.00	44.0			
	1000	TYKW	45 C	0233.0	0233.6	1.5	28.0	3.0		
	1000	TYKW	45 C	0235.0	0235.3	1.0	4.0	1.0		
	930	BORD	46 C	0720.0	0720.6	1.0	11.0	3.0		
	930	BORD	41 F	0722.0	0727.5	6.0	19.4			
	204	IZMI	41 F	0806.0	0807.2	7.8	50.0			
	808	ONDR	41 F	0855.8		2.5				
	2950	GORK	26 FAL	1008.3	1114.6	111.00	2.3			
	204	IZMI	41 F	1111.6	1111.7	2.8	40.0			
	9100	GORK	26 FAL	1137.5	1159.8	25.50	3.8			
	610	SGMR	47 GB	1745.3	1745.3	.3	239.0			QL=6 ST=2 TYP=5
	245	SGMR	47 GB	1745.3	1745.3	.3	100.0			QL=6 ST=2 TYP=5
	410	SGMR	47 GB	1745.3	1745.3	.3	150.0			QL=6 ST=2 TYP=5
31	260	ONDR	44 NS	0550.0E	0642.0	500.00	104.0			
	245	LEAR	43 NS	2315.0	0355.5	630.00	90.0			QL=6 ST=2 TYP=1
	200	HIRA	42 SER	0333.0	0335.3	23.0	105.0			WR
	500	HIRA	46 C	0333.0	0335.6	3.3	27.0	4.0		WL
	610	LEAR	8 S	0333.6	0333.6	.2	4.0			QL=6 ST=2 TYP=3
	410	LEAR	47 GB	0333.6	0335.8	2.2	56.0			QL=6 ST=2 TYP=5
	245	LEAR	47 GB	0333.8	0335.8	2.2	119.0			QL=6 ST=2 TYP=5
	3750	TYKW	5 S	0335.0	0335.4	2.0	1.0	.3		
	2950	GORK	21 GRF	0534.4	0544.7	31.9	1.1			
	100	GORK	46 C	0535.2	0536.2	3.3	1100.0			
	100	GORK		0535.2	0536.3		750.0			
	200	HIRA	46 C	0535.3	0535.8	2.6	2600.0	250.0		0
	200	GORK	4 S/F	0535.5	0536.2	2.7	478.0			
	3100	CRIM	1 S	0535.5	0536.5	3.0	9.0	3.0		
	500	HIRA	45 C	0535.8	0535.8	2.6	22.0	5.0		WL
	100	HIRA	46 C	0535.9	0536.3	2.3	2000.0	340.0		
	2950	GORK	1 S	0535.9	0536.6	2.0	4.8	2.0		
	2000	TYKW	5 S	0536.0	0536.6	3.0	7.0	2.0		
	3750	TYKW	45 C	0536.0	0536.7	3.0	9.0	2.0		
	1000	TYKW	45 C	0536.0	0536.7	3.0	12.0	4.0		
	33	UPIC	4 S/F	0536.0	0536.1	2.2				
	30	POTS	4 S/F	0536.0	0536.2	2.0	9000.0	600.0		
	234	POTS	4 S/F	0536.0	0536.5	2.5	55.0	3.0		
9100	GORK	2 S/F	0536.0	0536.6	3.0	14.0				
950	GORK	4 S/F	0536.0	0536.7	2.0	12.0	6.0			
650	GORK	4 S/F	0536.0	0536.8	2.0	12.0	6.0			
113	POTS	4 S/F	0536.0	0537.0	2.2	200.0	20.0			
245	LEAR	47 GB	0536.1	0536.3	1.9	320.0			QL=6 ST=2 TYP=5	
9300	KISV	2 S/F	0536.1	0536.7	1.0	13.0				
4995	LEAR	R S	0536.1	0536.8	1.9	11.0			QL=6 ST=2 TYP=3	

SOLAR RADIO EMISSION  
OUTSTANDING OCCURRENCES

25  
Jul 85

JULY 1985

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		
31	410 LEAR	8 S	0536.3	0536.3	1.7	16.0			QL=6 ST=2 TYP=3
	610 LEAR	8 S	0536.3	0536.6	1.7	20.0			QL=6 ST=2 TYP=3
	1415 LEAR	8 S	0536.3	0536.8	1.7	9.0			QL=6 ST=2 TYP=3
	2695 LEAR	8 S	0536.3	0536.8	1.7	7.0			QL=6 ST=2 TYP=3
	8800 LEAR	8 S	0536.3	0536.8	1.7	11.0			QL=6 ST=2 TYP=3
	950 GORK	29 PBI	0538.0	0538.0	4.2	2.4			
	650 GORK	29 PBI	0538.0	0538.0	5.7	3.0			
	200 HIRA	42 SER	0604.5	0642.0	39.0	240.0			MR
	204 IZMI	41 F	0627.0	0642.4	21.0	230.0			
	113 POTS	42 SER	0636.5	0642.6	7.7	80.0	2.0		
	234 POTS	42 SER	0636.8	0642.2	7.4	200.0	10.0		
	30 POTS	42 SER	0636.9	0642.5	7.5	400.0	120.0		
	100 GORK	41 F	0637.0	0637.4	8.0	75.0			
	100 GORK		0637.0	0637.6		80.0			
	100 HIRA	42 SER	0637.0	0637.6	8.0	1900.0			
	100 GORK		0637.0	0642.6		780.0			
	200 GORK	41 F	0637.1	0637.4	7.8	160.0			
	200 GORK		0637.1	0642.3		360.0			
	33 UPIC	45 C	0637.3	0638.5	1.7				
	500 HIRA	42 SER	0637.9	0637.9	6.0	5.0			WL
	2840 PEKG	1 S	0641.0	0642.3	4.0	3.7	1.4		
	2000 TYKW	5 S	0642.0	0642.5	1.5	1.0	.3		
	1000 TYKW	5 S	0642.0	0642.8	3.0	1.0			
	3750 TYKW	5 S	0642.2	0642.6	1.0	3.0	1.0		
	33 UPIC	4 S/F	0642.4	0642.4	1.5				
	1470 POTS	1 S	0717.0	0724.1	11.0	4.0			
	3000 POTS	1 S	0718.0	0723.5	7.0	3.0			
	204 IZMI	41 F	0719.2	0719.5	6.6	50.0			
	33 UPIC	46 C	0719.5	0723.5	5.4				
	3750 TYKW	5 S	0720.0	0725.0	20.0	2.0	1.0		
	2950 GORK	22 GRF	0720.7	0723.7	10.0	3.3			
2000 TYKW	45 C	0721.0	0724.0	8.0	3.0	1.0			
1000 TYKW	45 C	0722.4	0723.6	3.0	1.5	.5			
950 GORK	1 S	0722.8	0723.6	2.2	1.0				
650 GORK	1 S	0722.8	0723.8	1.7	1.2				
410 LEAR	8 S	0723.6	0724.3	.9	49.0			QL=6 ST=2 TYP=3	
808 ONDR	8 S	0909.5	0909.5	.2					
204 IZMI	3 S	0930.6	0931.0	1.0	46.0	20.0			
204 IZMI	41 F	1057.4	1058.5	2.6	72.0				
33 UPIC	45 C	1058.0	1059.0	1.6					
29 UPIC	45 C	1058.0	1059.3	1.7					

Reports are received routinely from the following observatories:

ATHN = Athens	HUAN = Huancayo	NAGO = Nagoya	POTS = Potsdam
BERN = Berne	IRKU = Irkutsk	NOBE = Nobeyama	SAOP = Sao Paulo
BORD = Bordeaux	IZMI = IZMIRAN	ONDR = Ondrejov	SGMR = Sagamore Hill
CRIM = Crimea	KISV = Kislovodsk	OTTA = Ottawa	TORN = Torun
DWIN = Dwingeloo	KRAK = Krakow	PALE = Palohua	TYKW = Toyokawa
GORK = Gorky	LEAR = Learmonth	PEKG = Peking	TRST = Trieste
HIRA = Hirasao	MANI = Manila	PENT = Penticton	UPIC = Upice
			VORO = Voroshilov

Explanation of Type Code:

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

Remarks:

QL = Quality (1=poor to 6=excellent)  
 ST = Status (1=real time; 2=final; 3=correction; 4=deletion)  
 TYP= Type (1=noise storm; 2=rise in noise level; 3=minor; 4=group; 5=major; 6=major plus; 7=Castell U-type burst)

# GOES 6 X-RAYS

JULY 1985

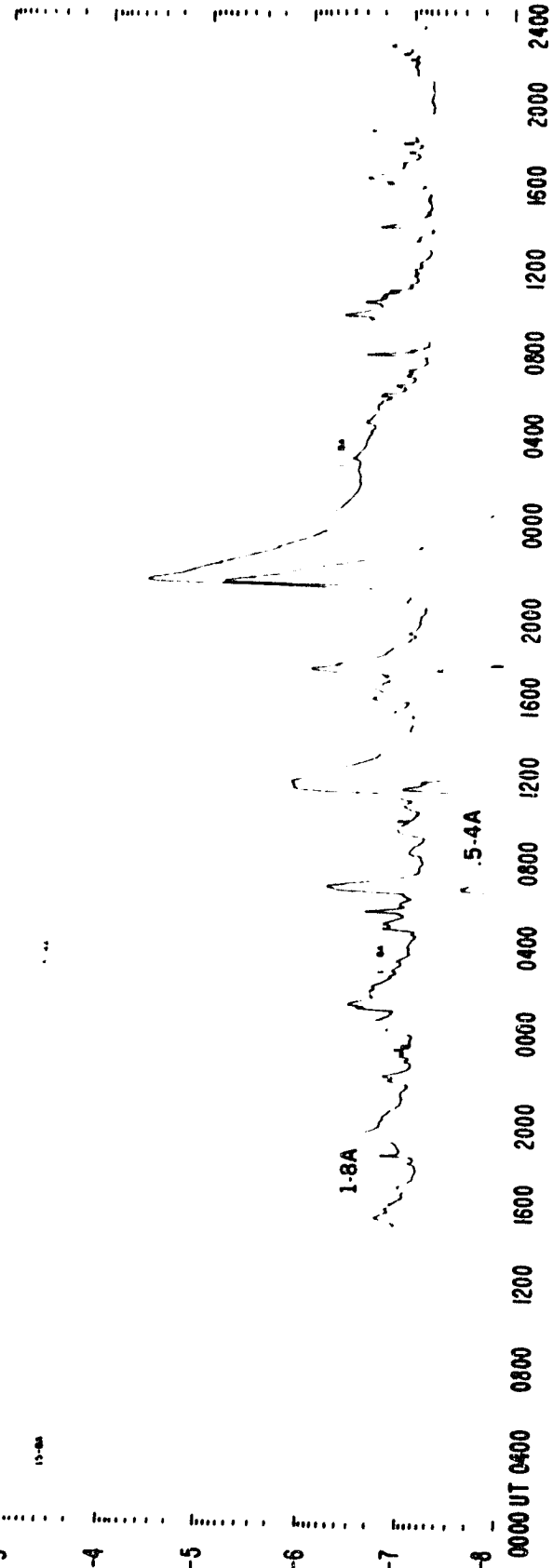
O1

O2

O3

Logarithmic Scale

W/m<sup>2</sup>



O4

O5

O6

Logarithmic Scale

W/m<sup>2</sup>



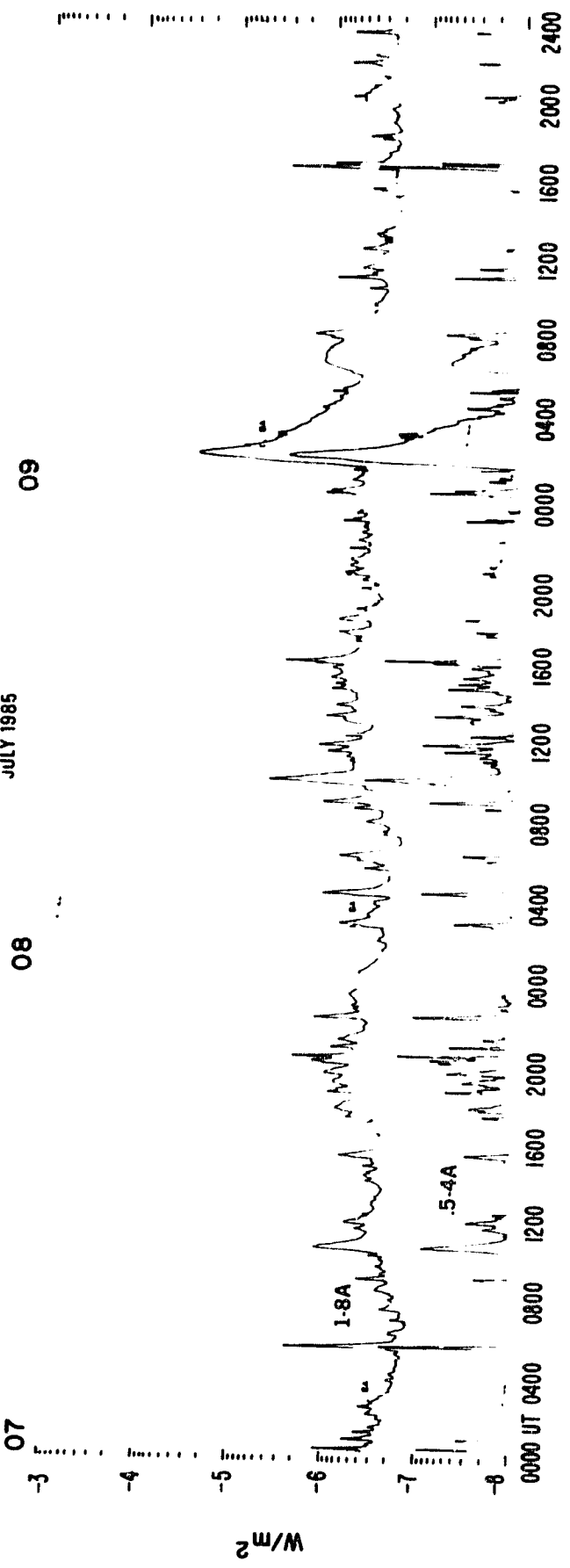
# GOES 6 X-RAYS

JULY 1985

07

08

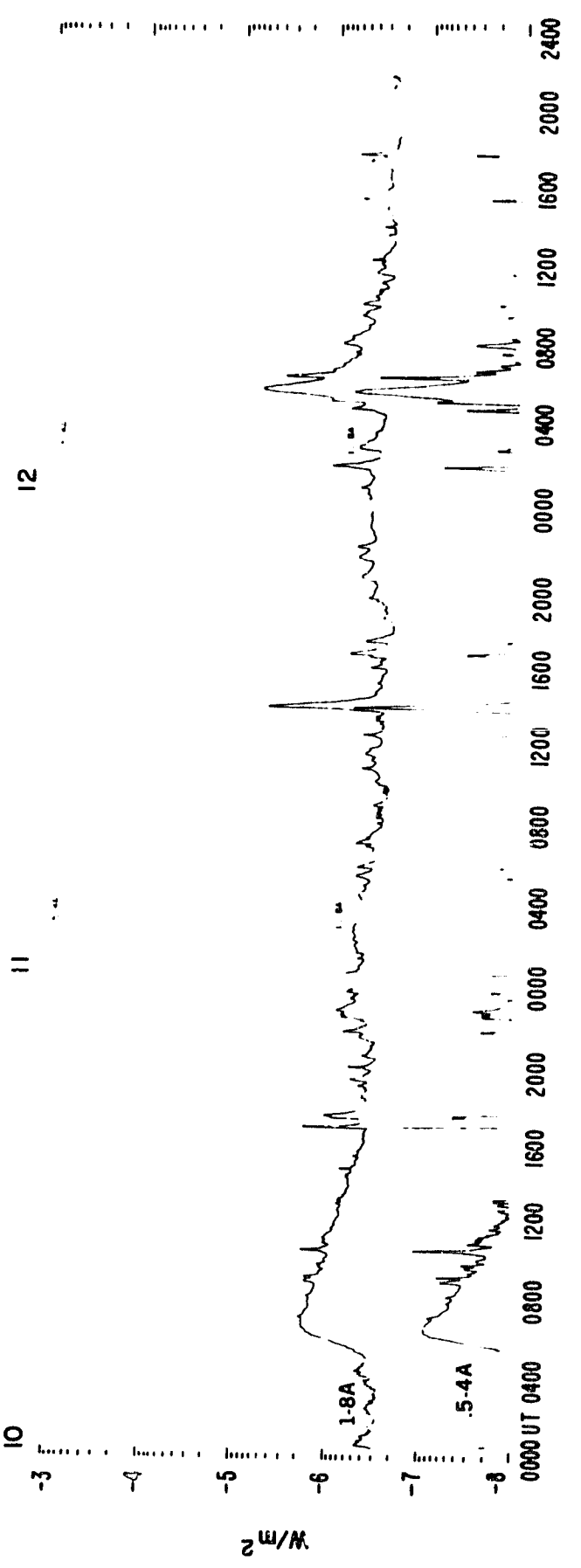
09



10

11

12





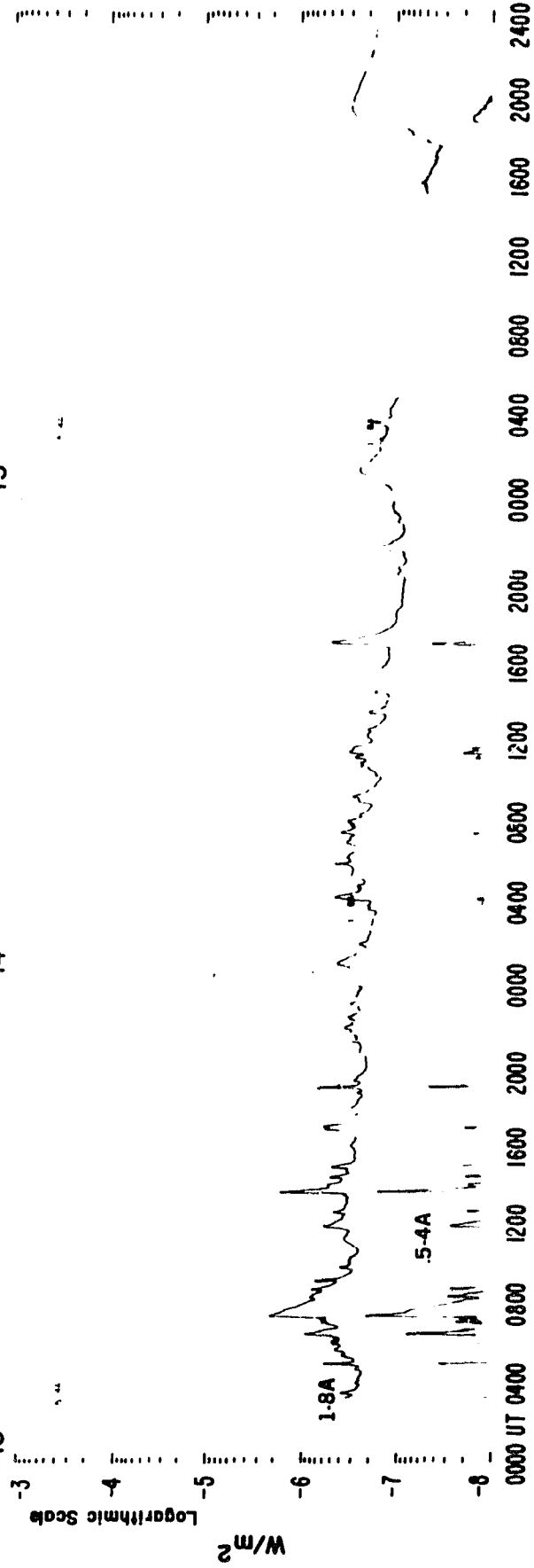
# GOES 6 X-RAYS

JULY 1985

14

15

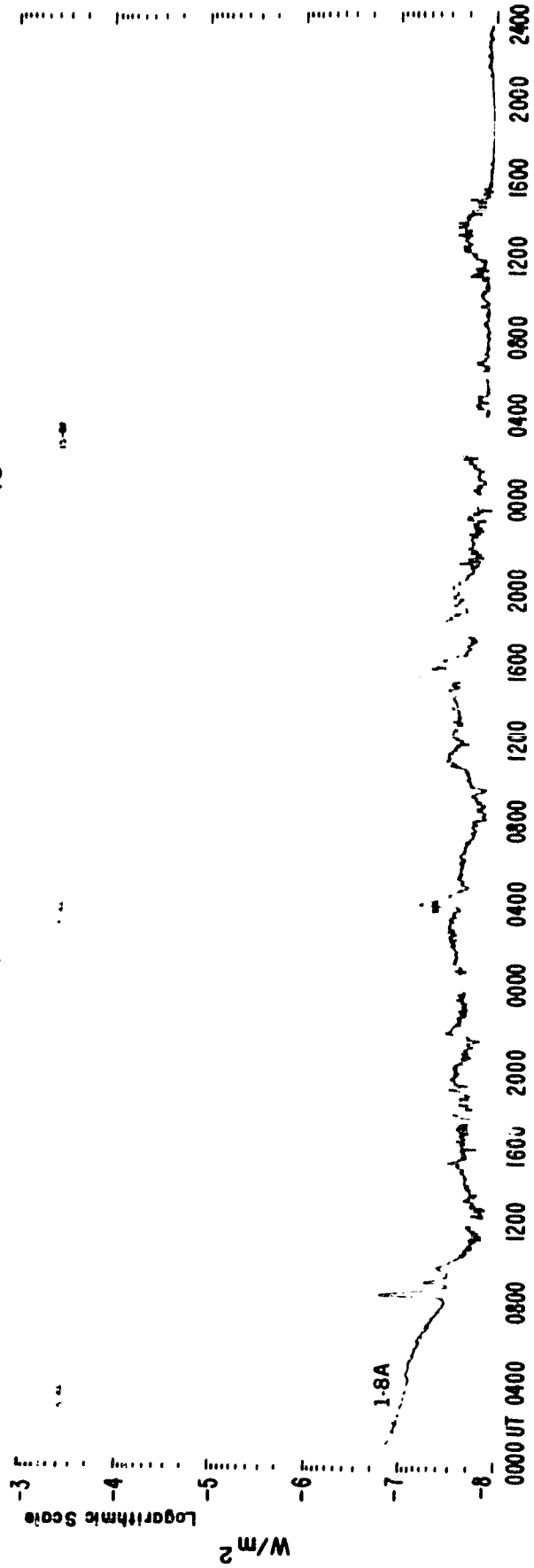
13



17

18

16



# GOES 6 X-RAYS

JULY 1985

19

20

21

Logarithmic Scale  
W/m<sup>2</sup>

1.8A

0000 UT 0400 0800 1200 1600 2000 2400

22

23

24

Logarithmic Scale  
W/m<sup>2</sup>

1.8A

0000 UT 0400 0800 1200 1600 2000 2400

# GOES 6 X-RAYS

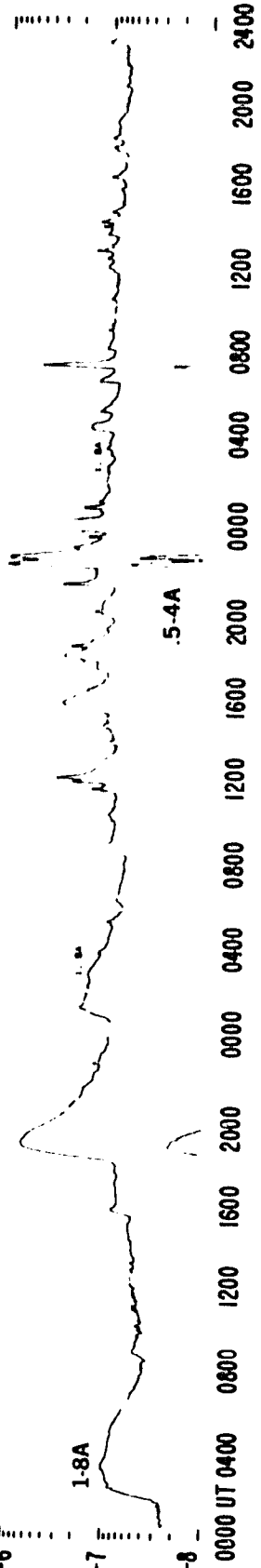
JULY 1985

25

26

27

Logarithmic Scale  
W/m<sup>2</sup>

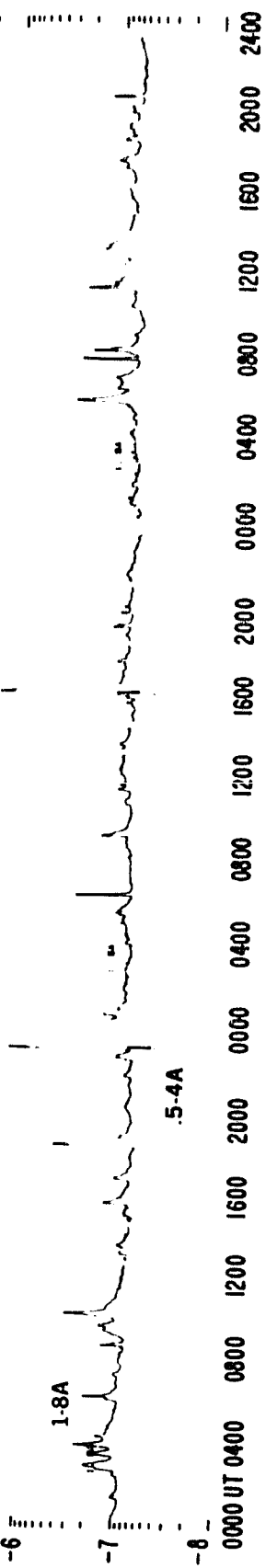


29

30

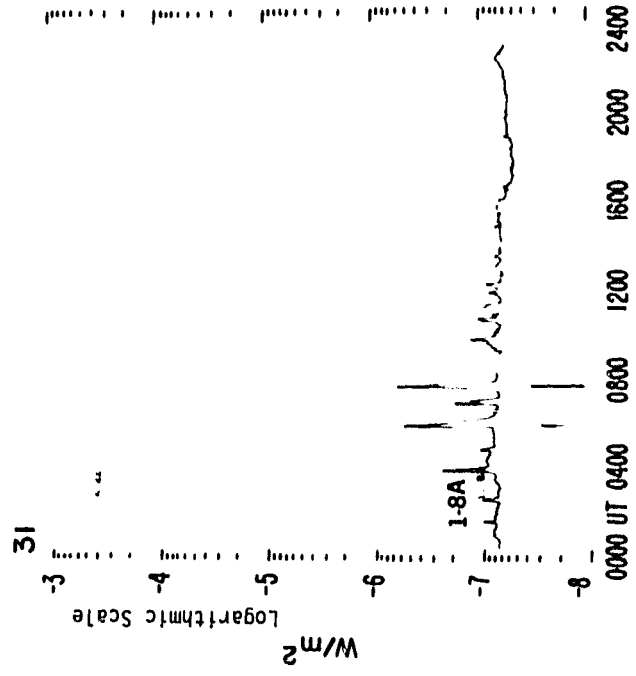
28

Logarithmic Scale  
W/m<sup>2</sup>



# GOES 6 X-RAYS

JULY 1985



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

July 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp Opt	Xray
01	0216	0220	0230	S09	E59	4670	SN	B1.8
01	0528	0539	0553					B4.0
01	0616	0621	0625					B2.4
01	0646	0703	0718					B2.7
01	0747	0751	0757					B2.6
01	1740	1743	1754	S07	E48	4670	SN	B1.6
01	2357	0001	0006					B2.0
02	0032	0049	0102			4670		B3.6
02	0251	0254	0256					B4.8
02	0426	0519	0545	S12	E69	4671	SF	B1.7
02	0515	0520	0524			4671		B2.5
02	0612	0619	0704	S12	E67	4671	SF	B6.2
02	1110	1112	1220	S13	E64	4671	SN	C1.8
02	1532	1545	1633					B2.2
02	1651	1706	1732	S14	E58	4671	SN	B9.6
02	2056	2133	2310	S15	E56	4671	2B	M4.5
03	0744	0750	0756					B2.8
03	0929	0944	0955					B4.8
03	1304	1312	1327					B1.5
03	1357	1403	1414					B2.2
03	1605	1626	1645					B2.9
03	1804	1808	1812					B1.3
03	1844	1844	1856	S12	E50	4671	SF	B2.7
03	2225	2229	2234					B1.4
04	0213	0214	0219	S11	E46	4671	SF	B1.9
04	0542	0554	0607					B1.2
04	0903	0913	0917	S11	E38	4671	SF	B4.6
04	1007	1012	1015					B1.4
04	1213	1216	1235	S18	E39	4671	SF	B9.3
04	1833	1855	1903					B6.3
05	0321	0328	0333			4672		B1.7
05	0514	0519	0525					B1.3
05	0827	0832	0844					B1.1
05	0936	0941	0946					B4.9
05	1051	1054	1057					B1.4
05	1134	1144	1213	S18	E25	4672	SN	B3.2
05	1347	1352	1415D	S18	E24	4672	SN	B4.1
05	1702	1724	1745			4672		B1.4
05	1800	1803	1806					B1.9
05	2251	2301	2313					B8.2
05	2338	2344	2355					B3.6
06	0022	0026	0033	S11	E16	4671	SF	B4.1
06	0238	0248	0311	S11	E16	4671	SF	C1.0
06	0341	0345	0351			4671		B4.0
06	0415	0419	0422					B2.9
06	0502	0506	0510					B2.1
06	0815	0819	0822					B4.9
06	0913	0917	0921					B2.6
06	1410	1413	1415					B1.5
06	1712	1721	1757			4672		B3.6
06	1834	1838	1851	S17	E08	4672	SF	B4.2
06	1923	1923	1943	S19	E09	4672	SB	B9.4
06	2119	2130	2133					B6.0
06	2234	2306	2323					C1.0
07	0012	0013	0018	S16	E05	4672	SF	C1.3
07	0038	0043	0047			4672		B6.2
07	0101	0105	0108					B5.0
07	0526	0527	0535	S13	E00	4671	SN	C3.0
07	0719	0724	0733					B2.5

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp Opt	Xray
07	0855	0858	0903					B4.5
07	1007	1010	1014					B3.4
07	1027	1037	1045					C1.3
07	1148	1157	1202					B6.3
07	1517	1522	1528					B7.3
07	1833	1838	1850					C1.0
07	1931	1937	1946					C1.1
07	2002	2014	2018					C1.7
07	2024	2027	2030					C2.7
07	2053	2057	2101					B9.5
07	2223	2228	2235					C1.4
08	0357	0408	0415					C1.2
08	0548	0603	0611	S14	W13	4671	SF	B8.2
08	0705	0709	0715					B2.7
08	0827	0831	0835					B5.8
08	0850	0850	0859	S11	W14	4671	SN	C1.2
08	0954	0955	1013	S15	W14	4671	SN	C4.8
08	1123	1124	1136	S14	W16	4671	SN	C1.1
08	1141	1147	1152					C1.4
08	1254	1308	1310					B7.3
08	1314	1317	1319					C1.1
08	1437	1440	1446					C1.0
08	1555	1559	1602					C1.9
08	1603	1606	1610					C3.3
08	1810	1816	1825					B9.0
08	2034	2043	2048					B7.6
08	2153	2157	2159					B7.3
08	2322	2322	2329	S16	W21	4671	SF	B8.3
09	0004	0007	0010					C1.2
09	0126	0204	0227			4671		M2.9
09	0514	0517	0519					C1.2
09	0808	0814	0831	N05	E00	4676	SN	C1.9
09	1103	1108	1112					C1.0
09	1133	1138	1147					B5.5
09	1231	1240	1244					B5.6
09	1652	1652	1718	S18	W33	4671	SB	C3.6
09	1659	1704	1706					C1.2
09	1815	1818	1822					B3.5
09	1824	1827	1831					B4.8
09	2013	2019	2035	S18	W34	4671	SF	B7.6
09	2211	2215	2218					B7.8
09	2344	2349	2351					B7.7
10	0530	0556	0608					C1.7
10	1020	1024	1027					C1.9
10	1644	1647	1650			4671		C2.2
10	1722	1724	1730	S08	W59	4674	SF	C1.1
10	1830	1833	1835					C1.3
10	1952	1956	1958					B6.7
10	2142	2146	2151					B7.7
10	2229	2232	2234					B8.2
11	0332	0336	0338					B7.8
11	0528	0533	0539					B5.3
11	0646	0647	0653	S07	W68	4674	SF	B5.4
11	1222	1225	1228					B5.0
11	1345	1346	1410	S18	W59	4671	SN	C5.1
11	1551	1555	1600					B4.0
11	1625	1638	1647					B6.8
11	1712	1717	1725					B4.6
12	0139	0144	0148					C1.1
12	0235	0235	0244	S13	W65	4671	SF	B5.7

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

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 Jul 85

July 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Opt	Imp Xray
12	0436	0441	0448					B7.1
12	0439	0537	0552					C6.3
12	0613	0617	0622					C3.7
12	0958	1004	1012					B5.6
12	1220	1223	1225					B4.5
12	1403	1406	1408					B3.9
12	1528	1533	1542					B5.6
12	1747	1751	1755					B6.2
13	0240	0244	0250					B3.9
13	0429	0432	0434					B6.6
13	0550	0551	0610	S14	W79	4671	SN	B9.8
13	0601	0604	0611			4671		B9.4
13	0653	0702	0723			4671		C2.3
13	0849	0850	0858	S15	W78	4671	SB	B9.0
13	1130	1137	1142					B5.9
13	1434	1437	1445					B4.7
13	1317	1321	1326					C2.0
13	1629	1645	1650					B5.7
13	1842	1845	1853	S17	W84	4671	SN	B7.2
14	0331	0336	0341					B4.3
14	0515	0518	0520					B4.6
14	1259	1303	1312					B1.9
14	1630	1640	1649					B5.0
14	2120	2128	2139					B1.9
15	0621	0624	0626					B4.4
16	0815	0824	0832					B1.7
17	1044	1047	1049					C1.0
22	0946	0954	1004					B1.0
25	1815	1840	1843					B7.3
26	0812	0822	0832					B2.3
26	1112	1123	1127					B1.6
26	1139	1156	1203					B3.6
26	1735	1753	1807					B3.1
26	1817	1820	1826					B2.8

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Opt	Imp Xray
26	2115	2123	2128					B3.3
26	2208	2221	2232					C1.2
26	2234	2240	2248					C1.1
26	2353	0000	0004					B2.6
27	0031	0036	0040					B2.0
27	0634	0638	0653					B1.4
27	0717	0726	0731					B5.5
28	0337	0342	0346					B2.4
28	0601	0606	0608					B2.0
28	0833	0836	0840					B1.4
28	1007	1011	1014			4682		B3.2
28	1533	1537	1546					B1.2
28	1821	1830	1837			4682		B4.4
28	2312	2315	2328	N08	E58	4680	SN	C1.3
29	0605	0609	0625	N09	E56	4680	SN	B2.7
29	0902	0903	0912	S19	E64	4682	SN	B1.8
29	1118	1121	1124					B1.1
29	1305	1308	1313					B1.3
29	1559	1602	1635	S17	E60	4682	1N	C2.1
29	1919	1923	1925					B1.5
29	2130	2134	2144	N06	E40	4680	SF	B1.8
30	0536	0544	0549	S18	E51	4682	SF	B3.1
30	0745	0748	0755	N06	E33	4680	SB	B2.4
30	0806	0812	0823					B2.6
30	1111	1116	1126	S19	E49	4682	1F	B2.5
30	1310	1311	1330	N05	E38	4680	SF	B2.0
30	2041	2046	2048					B1.5
31	0212	0215	0221					B1.0
31	0332	0337	0345	N04	E21	4680	SF	B2.4
31	0535	0540	0600	N04	E20	4680	SN	B5.9
31	0637E	0638	0645	N04	E19	4680	SF	B1.8
31	0723E	0725	0734	N06	E21	4680	SB	B7.3
31	0928	0932	0934					B1.1
31	1020	1028	1031					B1.0
31	1049	1052	1054					B1.1
31	1057	1101	1104					B1.1

MASS EJECTIONS FROM THE SUN

JULY 1985

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event
		Start	Max	End	RA°	R/R <sub>0</sub>		
KHAR	Jul 01	0655	E	0710	D 104	0.80	H-alpha	S
KHAR	Jul 02	0656		0707	D 101	0.61	H-alpha	S
KHAR	Jul 02	0754	E	0830	D 103	0.91	H-alpha	SP
PALE	Jul 02	2116.1		2122.8			Meter	II
SGMR	Jul 02	2116.3		2145.0			Meter	IV
PALE	Jul 02	2122.8		2150.5			Meter	IV
PALE	Jul 09	0154.1		0204.0			Meter	II
LEAR	Jul 09	0155.6		0213.0			Meter	II
PALE	Jul 09	0204.0		0430.0			Meter	IV
KHAR	Jul 09	0700	E	0713	D 257	0.67	H-alpha	S
KHAR	Jul 09	0705		0745	D 090	0.05	H-alpha	S
KHAR	Jul 09	0820	E	0834	D 090	0.05	H-alpha	S
KHAR	Jul 09	0820	E	0834	D 252	0.68	H-alpha	S
KHAR	Jul 11	0642	E	0720	D 259	0.91	H-alpha	S
KHAR	Jul 11	0737	E	0800	D 256	0.95	H-alpha	S
KHAR	Jul 12	0802	E	0810	D 276	0.60	H-alpha	S
KHAR	Jul 13	0733	E	0740	D 268	0.81	H-alpha	S
KHAR	Jul 13	0857	E	0902	D 255	1.00	H-alpha	S
KHAR	Jul 13	0934	E	0944	D 255	1.00	H-alpha	S
KHAR	Jul 13	1043	E	1050	D 255	1.00	H-alpha	S
KHAR	Jul 16	0600	E	0620	D 276	1.00	H-alpha	S
KHAR	Jul 16	0830	E	0908	D 276	1.00	H-alpha	S
KHAR	Jul 16	1010	E	1035	D 102	1.00	H-alpha	S
LEAR	Jul 17	0333.6		0348.0			Meter	II
KHAR	Jul 20	0938	E	0950	D 104	1.00	H-alpha	S
KHAR	Jul 20	1022	E	1032	D 104	1.00	H-alpha	S
KHAR	Jul 22	0830	E	0905	D 106	0.92	H-alpha	S
KHAR	Jul 22	0917	E	0925	D 106	0.92	H-alpha	S
KHAR	Jul 22	0940	E	0950	D 106	0.92	H-alpha	S
KHAR	Jul 26	0725	E	0750	072	1.00	H-alpha	S
KHAR	Jul 26	0748		0802	085	1.00	H-alpha	S
KHAR	Jul 26	0820		0839	085	1.00	H-alpha	S
KHAR	Jul 26	0958		1025	083	1.00	H-alpha	S
KHAR	Jul 26	0958		1040	D 085	1.00	H-alpha	SP
KHAR	Jul 26	1050	E	1056	D 097	1.00	H-alpha	S
WEND	Jul 28	1016	E 1018	1034	108	0.98-1.08	H-alpha	SP
KHAR	Jul 30	0643	E	0705	D 080	0.54	H-alpha	S
KHAR	Jul 30	0725	E 0752	U 0845	D 087	0.50	H-alpha	SP
KHAR	Jul 30	0811		0845	D 085	0.56	H-alpha	S
KHAR	Jul 30	0857	E 0910	U 0947	D 081	0.52	H-alpha	S
KHAR	Jul 30	0945	E	1005	D 263	1.00	H-alpha	S
KHAR	Jul 30	1003	E	1018	D 080	0.52	H-alpha	S
KHAR	Jul 30	1023	E	1030	D 080	0.52	H-alpha	SP
WEIS	Jul 31	0728.7		0730.2			140-50 MHz	II Harmonic

## ACTIVE PROMINENCES AND FILAMENTS

35  
Jul 85

JULY 1985

Type	Day	Observed UT		Lat CMD	Imp	Type	Sta	Remarks
		Start	End					
AFS	Jul 01	0730	1330	S07 E32		V	ATHN	
ADF	Jul 01	1230	1330	S08 E48		V	ATHN	
AFS	Jul 02	0608	1400	S08 E39		V	ATHN	
AFS	Jul 02	0700	1400	S12 E60		V	ATHN	
BSL	Jul 02	0725	0735	S05 E90	1-	C	CATA	
DSD	Jul 02	0810	1150	S12 E65		V	ATHN	
BSL	Jul 02	0925	0930	N05 W90	1-	C	CATA	
DSD	Jul 02	1110	1130	S17 E65		V	ATHN	
BSL	Jul 02	1125	1135	S70 W90	1-	C	CATA	
BSL	Jul 02	1125	1140	S74 W90	1-	C	CATA	
SDF	Jul 02	1140E	0630D	S26 W60	1	C	CATA	
DSD	Jul 02	1153	1400	S18 E63		V	ATHN	
DSD	Jul 03	0252	0259	S15 E57	1	C	CULG	.06 R to SSE, B.
EPL	Jul 03	0550	0705	S18 W90		V	ATHN	
APR	Jul 03	0645	1400	S16 E90		V	ATHN	
ADF	Jul 03	0645	1400	S13 E52		V	ATHN	
APR	Jul 03	0705	0810	S18 W90		V	ATHN	
ADF	Jul 03	0718	1400	S23 E53		V	ATHN	
BSL	Jul 03	0720	0725	S79 E90	1-	C	CATA	
AFS	Jul 03	0725	1400	S06 E27		V	ATHN	
BSL	Jul 03	0925	0940	N53 E90	1-	C	CATA	
ADF	Jul 04	0932	1400	S14 E13		V	ATHN	
AFS	Jul 04	0932	1120	S14 E38		V	ATHN	
DSD	Jul 04	0932	1004	S21 E40		V	ATHN	
APR	Jul 04	1010	1400	N01 W90		V	ATHN	
APR	Jul 04	1015	1400	S18 E90		V	ATHN	
BSL	Jul 04	1055	1105	N85 E90	1-	C	CATA	
ADF	Jul 04	1120	1400	S16 E37		V	ATHN	
BSL	Jul 04	1120	1130	N33 W90	1-	C	CATA	
SDF	Jul 04	2240	2302	S06 E17	1	C	CULG	6 degrees long.
ADF	Jul 05	0710	1300	S11 E27		V	ATHN	
BSL	Jul 05	0725	0740	N02 E90	1-	C	CATA	
BSL	Jul 05	0930	0955	S60 W90	1-	C	CATA	
BSL	Jul 05	1015	1020	S63 W90	1-	C	CATA	
BSL	Jul 05	1100	1125D	N01 E90	1-	C	CATA	
BSL	Jul 06	0730	0745	S75 E90	1-	C	CATA	
ADF	Jul 06	0740	1330	S13 E15		V	ATHN	
BSL	Jul 06	0930	0940	S22 W90	1-	C	CATA	
ADF	Jul 08	0851	1400	S10 W13		V	ATHN	
AFS	Jul 08	0851	1400	S07 W23		V	ATHN	
BSL	Jul 08	0910	0920	N78 W90	1-	C	CATA	
APR	Jul 08	0930	1400	S47 E90		V	ATHN	
BSL	Jul 08	1005	1015	N78 E90	1-	C	CATA	
BSL	Jul 08	1025	1035	S84 W90	1-	C	CATA	
AFS	Jul 08	1115	1400	N08 W25		V	ATHN	
BSL	Jul 08	1140	1140D	S84 E90	1-	C	CATA	
BSL	Jul 09	0630E	0635	S59 W90	1-	C	CATA	
BSL	Jul 09	0635	0640	N78 W90	1-	C	CATA	
BSL	Jul 09	0640	0645	S57 W90	1-	C	CATA	
ADF	Jul 09	0700	0900	S10 W51		V	ATHN	
AFS	Jul 09	0700	1400	S08 W38		V	ATHN	
DSD	Jul 09	0700	1400	S16 W28		V	ATHN	
ADF	Jul 09	0700	1400	S14 W23		V	ATHN	
AFS	Jul 09	0700	1400	N03 E02		V	ATHN	
DSD	Jul 09	0700	1400	N02 E01		V	ATHN	
DSD	Jul 09	0732	1400	S20 W30		V	ATHN	
BSL	Jul 09	1000	1008	N87 E90	1-	C	CATA	
BSL	Jul 09	1008	1015	N45 E90	1-	C	CATA	
BSL	Jul 09	1008	1015	N68 E90	1-	C	CATA	
BSL	Jul 09	1035	1040	N62 W90	1-	C	CATA	
DSD	Jul 09	1125E	1135	S32 W33	1-	C	CATA	



## ACTIVE PROMINENCES AND FILAMENTS

JULY 1985

Type	Day	Observed UT		Lat	CMD	Imp	Type	Sta	Remarks
		Start	End						
ADF	Jul 10	0122E	0705D	S05	W05	1	C	CULG	16 degrees.
BSL	Jul 10	0715	0720	N86	W90	1-	C	CATA	
AFS	Jul 10	0730	1400	N06	W10		V	ATHN	
AFS	Jul 10	0730	1400	S06	W50		V	ATHN	
ADF	Jul 10	0730	1400	S14	W39		V	ATHN	
ADF	Jul 10	0755	1400	S08	W50		V	ATHN	
BSL	Jul 10	0905	0915	S87	E90	1-	C	CATA	
DSD	Jul 10	0919	1400	S16	W52		V	ATHN	
APR	Jul 10	0930	1400	S30	E90		V	ATHN	
BSL	Jul 10	0930	0940	S78	E90	1-	C	CATA	
BSL	Jul 10	0940	0955	S67	W90	1-	C	CATA	
BSL	Jul 10	1015	1020	S75	W90	1-	C	CATA	
BSL	Jul 10	1105	1145D	S11	E90	1-	C	CATA	
BSL	Jul 10	1110	1115	S04	W90	1-	C	CATA	
ADF	Jul 11	0650	1315	S16	W56		V	ATHN	
AFS	Jul 11	0740	1315	N05	W23		V	ATHN	
APR	Jul 11	0805	1315	N30	W90		V	ATHN	
SDF	Jul 11	1010E	0630D	S07	W20	1	C	CATA	
APR	Jul 11	1200	1315	S35	W90		V	ATHN	
ADF	Jul 11	2236	0143	S07	W27	3	C	CULG	18 square degrees.
BSL	Jul 12	0650	0600	S22	W90	1-	C	CATA	
ADF	Jul 12	0715	1400	N02	W39		V	ATHN	
ASR	Jul 12	0715	1400	S02	W90		V	ATHN	
APR	Jul 12	0715	1400	N07	W90		V	ATHN	
BSL	Jul 12	0810	0820	N87	E90	1-	C	CATA	
BSL	Jul 12	0825	0840	N10	E90	1-	C	CATA	
BSL	Jul 12	1005	1015	S55	E90	1-	C	CATA	
BSL	Jul 12	1045	1100	S54	E90	1-	C	CATA	
BSL	Jul 12	1135	1140	N62	E90	1-	C	CATA	
ASR	Jul 13	0643	0800	S16	W90		V	BUCH	
BSL	Jul 13	0655	0710	S13	W90	1-	C	CATA	
ASR	Jul 13	0720	1300	S12	W90		V	ATHN	
APR	Jul 13	0720	1300	S24	W90		V	ATHN	
ADF	Jul 13	0730	1300	N03	W50		V	ATHN	
BSL	Jul 13	0735	0750	N08	W90	1-	C	CATA	
BSL	Jul 13	0735	0750	N16	W90	1-	C	CATA	
BSL	Jul 13	0900	0905	S04	E90	1-	C	CATA	
EPL	Jul 13	0915	1145D	S32	W90	1	C	CATA	
ASR	Jul 13	2202E	0546	S17	W90		C	CULG	Small surges.
BSL	Jul 14	0525	0535	S18	W90	1-	C	CATA	
BSL	Jul 14	0530	0600	S14	W90	1-	C	CATA	
BSL	Jul 14	0755	0800	N05	W90	1-	C	CATA	
SSL	Jul 14	0945	1000	N54	W90	1-	C	CATA	
BSL	Jul 14	1025	1045	N05	W90	1-	C	CATA	
BSL	Jul 14	1045	1055	S17	W90	1-	C	CATA	
BSL	Jul 14	1115	1125	N38	E90	1-	C	CATA	
BSL	Jul 14	1135	1140	N41	E90	1-	C	CATA	
BSL	Jul 15	0725	0740	N82	W90	1-	C	CATA	
BSL	Jul 15	0725	0740	S52	E90	1-	C	CATA	
BSL	Jul 15	0840	0915	S12	E90	1-	C	CATA	
BSL	Jul 15	0850	0900	S74	W90	1-	C	CATA	
ASR	Jul 15	2136E	0532D	S03	W90		C	CULG	Up to .05 R.
APR	Jul 16	0615	1400	S28	E90		V	ATHN	
BSL	Jul 16	0720	0735	N89	E90	1-	C	CATA	
APR	Jul 16	0730	1400	N07	W90		V	ATHN	
BSL	Jul 16	0740	0755	S65	E90	1-	C	CATA	
BSL	Jul 16	0755	0800D	S83	E90	1-	C	CATA	
BSL	Jul 16	0755	0800D	S71	W90	1-	C	CATA	
BSL	Jul 16	0830	0840	N72	W90	1-	C	CATA	
BSL	Jul 16	0900	0910	N76	E90	1-	C	CATA	

## ACTIVE PROMINENCES AND FILAMENTS

37  
Jul 85

JULY 1985

Type	Day	Observed UT		Lat	CMD	Imp	Type	Sta	Remarks
		Start	End						
BSL	Jul 16	0925	0930D	N89	E90	1-	C	CATA	
APR	Jul 16	0945	1400	S18	E90		V	ATHN	
BSL	Jul 16	0945	0955	N04	W90	1-	C	CATA	
BSL	Jul 16	1015	1125	N04	W90	1-	C	CATA	
BSL	Jul 16	1055	1100	S82	E90	1-	C	CATA	
BSL	Jul 16	1110	1115	S89	E90	1-	C	CATA	
BSL	Jul 16	1120	1135D	N08	W90	1-	C	CATA	
BSL	Jul 16	1140E	1145D	N08	W90	1-	C	CATA	
AFS	Jul 17	0640	1330	S15	E60		V	ATHN	
APR	Jul 17	0640	1330	S25	E90		V	ATHN	
BSL	Jul 17	0640	0655	N72	E90	1-	C	CATA	
BSL	Jul 17	0745	0800	S10	W90	1-	C	CATA	
BSL	Jul 17	0755	0850	S06	E90	1-	C	CATA	
BSL	Jul 17	0810	0815	N87	E90	1-	C	CATA	
BSL	Jul 17	1020	1030	N47	E90	1-	C	CATA	
BSL	Jul 17	1175	1150D	S53	E90	1-	C	CATA	
BSL	Jul 18	0900	0905D	N89	E90	1-	C	CATA	
BSL	Jul 18	0950	1010	S04	W90	1-	C	CATA	
ADF	Jul 18	1015	1400	S18	E50		V	ATHN	
APR	Jul 18	1028	1400	N07	W90		V	ATHN	
BSL	Jul 18	1055	1105	N85	E90	1-	C	CATA	
BSL	Jul 18	1110	1110D	N89	E90	1-	C	CATA	
DSD	Jul 19	0515	0740	S15	E41		V	ATHN	
BSL	Jul 19	0710	0720	S84	W90	1-	C	CATA	
AFS	Jul 19	0730	0740	S14	E37		V	ATHN	
BSL	Jul 19	0750	0755	S06	E90	1-	C	CATA	
BSL	Jul 19	0820E	0835	N37	W90	1-	C	CATA	
BSL	Jul 19	0925E	0940	N52	W90	1-	C	CATA	
ASR	Jul 20	0600	0700	S13	E90		V	ATHN	
APR	Jul 20	0600	1400	N23	W90		V	ATHN	
ADF	Jul 20	0600	1400	S12	E58		V	ATHN	
APR	Jul 20	0600	1400	S26	E90		V	ATHN	
ADF	Jul 20	0645	1400	S14	E21		V	ATHN	
BSL	Jul 20	0710	0715	N78	W90	1-	C	CATA	
BSL	Jul 20	0805	0810	S53	E90	1-	C	CATA	
BSL	Jul 20	0855	0910	N05	W90	1-	C	CATA	
BSL	Jul 20	0910	0945D	S16	E90	1-	C	CATA	
ASR	Jul 20	0930	0945	S13	E90		V	ATHN	
BSL	Jul 20	1010	1105D	S15	E90	1-	C	CATA	
BSL	Jul 20	1010	1055	S34	W90	1-	C	CATA	
BSL	Jul 20	1030	1040	S87	W90	1-	C	CATA	
ADF	Jul 21	0515	1300	S16	E15		V	ATHN	
BSL	Jul 21	0610	0620	N84	E90	1-	C	CATA	
BSL	Jul 21	0630	0635	N75	W90	1-	C	CATA	
BSL	Jul 21	0640	0655	N68	W90	1-	C	CATA	
BSL	Jul 21	0735	0750	S84	E90	1-	C	CATA	
BSL	Jul 21	0845	0900	N83	E90	1-	C	CATA	
BSL	Jul 21	0855	0910	N78	E90	1-	C	CATA	
BSL	Jul 21	1030	1035	N79	W90	1-	C	CATA	
BSL	Jul 21	1135	1140	S74	W90	1-	C	CATA	
APR	Jul 22	0650	1333	S05	W90		V	ATHN	
BSL	Jul 22	0655	0705	S48	E90	1-	C	CATA	
BSL	Jul 22	0850	0900D	N89	E90	1-	C	CATA	
BSL	Jul 22	0855	0900D	S76	W90	1-	C	CATA	
APR	Jul 22	0945	1333	S08	E90		V	ATHN	
DSD	Jul 22	0945	1040	S14	E61	1-	C	CATA	
BSL	Jul 22	0955	1005	N89	E90	1-	C	CATA	
BSL	Jul 22	1000	1010	N75	W90	1-	C	CATA	
BSL	Jul 22	1050	1100	N84	E90	1-	C	CATA	
AFS	Jul 22	1220	1333	S11	E57		V	ATHN	

ACTIVE PROMINENCES AND FILAMENTS

JULY 1985

Type	Day	Observed UT Start End	Lat CMD	Imp	Type	Sta	Remarks
APR	Jul 23	0615 1315	S35 E90		V	ATHN	
BSL	Jul 23	0830 0840	N64 E90	1-	C	CATA	
BSL	Jul 23	0845 0850	N72 E90	1-	C	CATA	
BSL	Jul 23	0850 0900	S57 W90	1-	C	CATA	
BSL	Jul 23	1115 1125	S50 W90	1-	C	CATA	
SDF	Jul 23	1145E 0630D	N36 W27	1	C	CATA	
ADF	Jul 24	0600 1330	S24 W20		V	ATHN	
ADF	Jul 24	0600 1330	S01 W13		V	ATHN	
ADF	Jul 24	0600 1330	S11 E36		V	ATHN	
ASR	Jul 24	0600 1330	N01 W90		V	ATHN	
ADF	Jul 24	0708 2113	S13 E02	3	C	CULG	Overnight, 8 degree arc.
ASR	Jul 24	0740 0810	S04 E90		V	ATHN	
BSL	Jul 24	0840 0845D	N71 W90	1-	C	CATA	
BSL	Jul 24	0935 0940	N54 W90	1-	C	CATA	
ADF	Jul 25	0245 0430U	S14 W38	1	C	CULG	Active over the whole length.
BSL	Jul 25	0725 0730D	N85 E90	1-	C	CATA	
BSL	Jul 25	0815 0825	S36 W90	1-	C	CATA	
ADF	Jul 25	0850 1400	S12 W50		V	ATHN	
BSL	Jul 25	0945 0955	S62 E90	1-	C	CATA	
BSL	Jul 25	0945 1000	N68 E90	1-	C	CATA	
BSL	Jul 25	1105 1110	S74 E90	1-	C	CATA	
BSL	Jul 25	1125 1135	N04 E90	1-	C	CATA	
BSL	Jul 26	0625 0650D	S12 E90	1-	C	CATA	
BSL	Jul 26	0640 0650D	N07 E90	1-	C	CATA	
ADF	Jul 26	0655 1330	S09 E08		V	ATHN	
ASR	Jul 26	0730 1330	N02 E90		V	ATHN	
BSL	Jul 26	0810 0830D	N01 E90	1	C	CATA	
BSL	Jul 26	0925 0935	S68 W90	1-	C	CATA	
BSL	Jul 26	1000 1000D	N04 E90	1-	C	CATA	
BSL	Jul 26	1000 1000D	N05 E90	1-	C	CATA	
BSL	Jul 26	1000 1000D	N07 E90	1-	C	CATA	
BSL	Jul 26	1010E 1025	N04 E90	1-	C	CATA	
BSL	Jul 26	1010E 1025	N08 E90	1-	C	CATA	
BSL	Jul 26	1010E 1015	S75 E90	1-	C	CATA	
BSL	Jul 26	1010E 1025	S84 W90	1-	C	CATA	
BSL	Jul 26	1035 1040	S32 E90	1-	C	CATA	
BSL	Jul 26	1055 1100	S05 E90	1-	C	CATA	
BSL	Jul 26	2225 2239	S15 E90	1	C	CULG	.07 R.
BSL	Jul 27	0419 0445	S11 E90	1	C	CULG	.07 R, South.
APR	Jul 27	0500 1330	S23 W90		V	ATHN	
APR	Jul 27	0500 1330	S07 E90		V	ATHN	
ASR	Jul 27	0500 0645	N05 E90		V	ATHN	
APR	Jul 27	0500 1330	N21 E90		V	ATHN	
ADF	Jul 27	0500 1330	S08 W04		V	ATHN	
APR	Jul 27	0600 1330	S17 E90		V	ATHN	
ASR	Jul 27	0600 0645	S12 E90		V	ATHN	
BSL	Jul 27	0645 0710	S11 E90		V	BUCH	
ASR	Jul 27	0800 0810	S16 E90		V	ATHN	
BSL	Jul 27	0835 0910	S02 E90	1-	C	CATA	
BSL	Jul 27	0935E 0945	N01 E90	1-	C	CATA	
BSL	Jul 27	1010 1100	N01 E90	2	C	CATA	
BSL	Jul 27	1020 1045	N04 E90	1-	C	CATA	
BSL	Jul 27	1020 1055	S24 E90	1-	C	CATA	
BSL	Jul 27	1110 1135	N01 E90	1-	C	CATA	
APR	Jul 27	1150 1330	S21 E90		V	ATHN	
APR	Jul 28	0500 1345	N15 E90		V	ATHN	
BSL	Jul 28	0535 0605	S34 E90	1-	C	CATA	
BSL	Jul 28	0550 0600	S29 E90	1-	C	CATA	
BSL	Jul 28	0600 0605D	N26 W90	1-	C	CATA	
DSD	Jul 28	0610 0855	N05 E67		V	ATHN	
ADF	Jul 28	0700 1345	S14 E63		V	ATHN	

## ACTIVE PROMINENCES AND FILAMENTS

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Jul 85

JULY 1985

Type	Day	Observed UT		Lat CMD	Imp	Type	Sta	Remarks
		Start	End					
BSL	Jul 28	0900	0925	N02 W90	1-	C	CATA	
BSL	Jul 28	1002	1033	S16 E78		V	ATHN	
BSL	Jul 28	1005	1040	S23 E90	2	C	CATA	
LPS	Jul 28	1033	1037	S16 E78		V	ATHN	
APR	Jul 28	1053	1345	S01 E90		V	ATHN	
DSD	Jul 28	1325	1345	N06 E60		V	ATHN	
DSD	Jul 28	2315	2339	N08 E57	1	C	CULG	C, .07 R, SE.
AFS	Jul 29	0600	1300	S05 W67		V	ATHN	
BSL	Jul 29	0835	0855	N64 E90	1-	C	CATA	
APR	Jul 29	0850	1300	S15 W90		V	ATHN	
ADF	Jul 29	0915	1300	S18 E67		V	ATHN	
AFS	Jul 29	1110	1300	N06 E04		V	ATHN	
ADF	Jul 29	1110	1300	N04 E42		V	ATHN	
DSD	Jul 29	1132	1200	N04 E03		V	ATHN	
DSD	Jul 30	0557	0616	N07 E32	1	C	CULG	.08 R, South, A.
BSL	Jul 30	0640	0645	N05 E90	1-	C	CATA	
BSL	Jul 30	0640	0700	S29 E90	1-	C	CATA	
DSD	Jul 30	0640	0700	N03 E31	1	C	CATA	
ADF	Jul 30	0715	1400	N11 E45		V	ATHN	
DSD	Jul 30	0745	0800	N06 E32		V	BUCH	
DSD	Jul 30	0750	0835	N04 E30		V	ATHN	
DSD	Jul 30	0755	0820D	N05 E31	2	C	CATA	
BSL	Jul 30	0815	0820D	N03 E90	1-	C	CATA	
BSL	Jul 30	0815	0820D	S78 E90	1-	C	CATA	
DSD	Jul 30	0900	0910D	N06 E90	1-	C	CATA	
BSL	Jul 30	1000	1005	N59 W90	1-	C	CATA	
DSD	Jul 30	1010E	1020D	N05 E30	1	C	CATA	
DSD	Jul 30	1035	1045	N06 E28	1-	C	CATA	
DSD	Jul 30	1045	1145D	N03 E29	2	C	CATA	
ASR	Jul 31	0051	0213	N06 E23		C	CULG	
ADF	Jul 31	0500	1445	N07 E34		V	ATHN	
ADF	Jul 31	0500	1445	S15 E28		V	ATHN	
APR	Jul 31	0545	1445	N08 E90		V	ATHN	
DSD	Jul 31	0635	0710	N06 E21		V	BUCH	
BSL	Jul 31	0735	0745	N84 W90	1-	C	CATA	
BSL	Jul 31	0755	0825	S07 W90	1-	C	CATA	
DSD	Jul 31	0930	1016	N08 E21		V	ATHN	
DSD	Jul 31	0945E	1000D	N10 E19	1	C	CATA	
BSL	Jul 31	1015	1025	N72 E90	1-	C	CATA	
ADF	Jul 31	2249	2400D	S27 E29	2	C	CULG	20 square degrees.

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 = Culgoora

KODA = Kodakanal

MANI = Manila

WEND = Wendelstein

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

C O N T E N T S

Comprehensive Reports

MISCELLANEOUS DATA

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Part II

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Late  
May 85

CARTE SYNOPTIQUE

ACTIVE REGIONS  
CARRINGTON ROTATION 1761

(16 April to 13 May 1985)

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Region No.	Coordinates		Imp	Age at	Spotless Region	Region No. in Rotation 1760	Activity at West Limb
	Lat.	Long.		CMP (Days)			
1	12°S	341	1	>6	X		dispersed
2	2°N	309	2	-5			?
3	11°S	292	1	>6	X		disappeared
4	19°S	290	1	+3	X		disappeared
5	9°S	266	1	>6	X		dispersed
6	18°N	249	1	>6	X		decreasing
7	15°N	232	5	+6			decreasing
8	9°N	112	1	+4	X		disappeared
9	5°N	94	3	0			decreasing
10	4°N	87	1	>6	X		decreasing
11	3°N	68	1	>6	X		dispersed
12	13°S	2	5	>6			decreasing

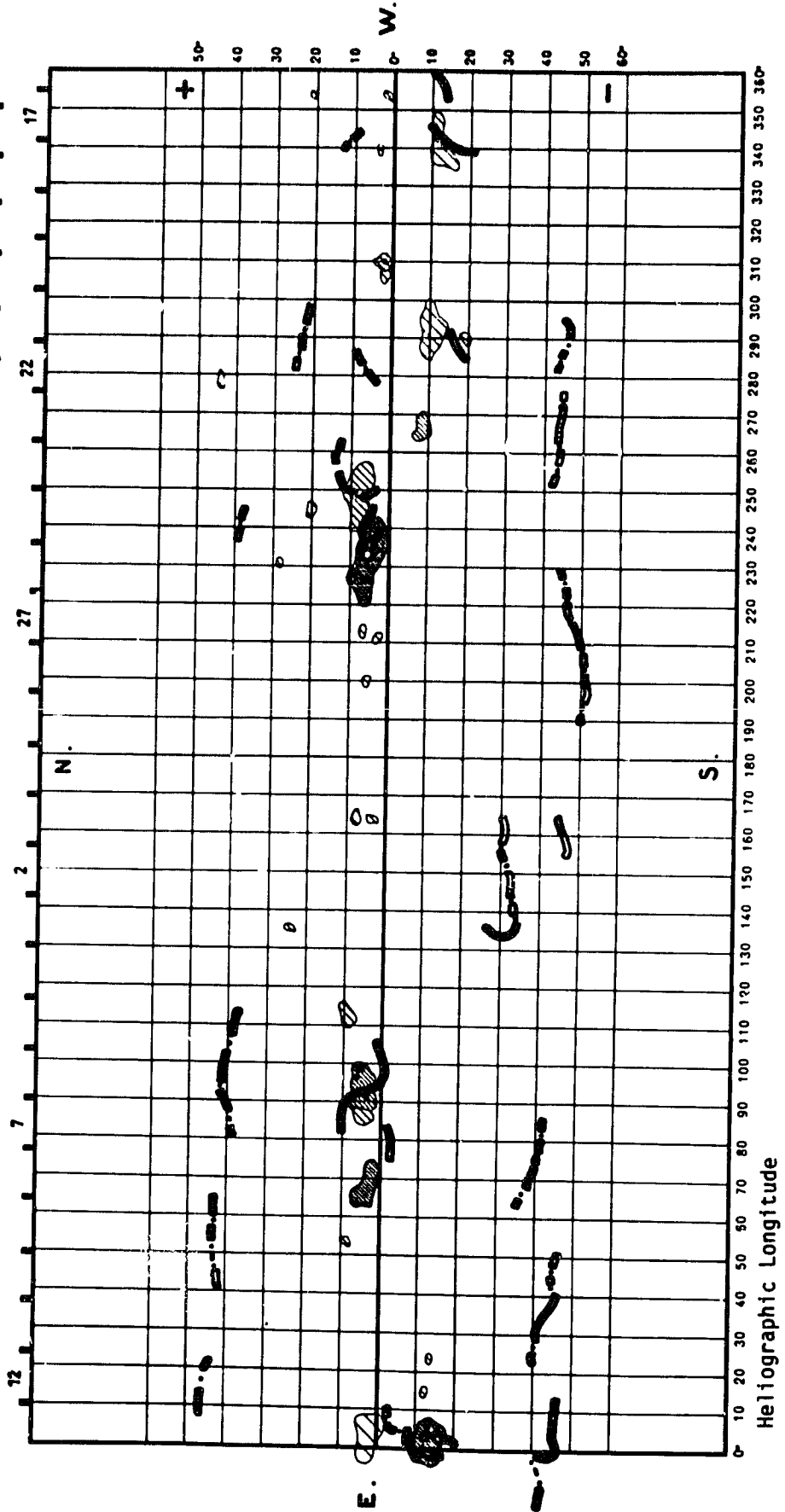
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CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1761  
(April 16 to May 13, 1985)

Meudon Observatory

April 1985



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*	83*	152*
1984	353*	461*	366*	440*	492*	185*	151*	161*	95*	36*	92*	69*
1985	104*	29*	38*	118*	126*	113*	177*					

\* Preliminary