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C. William Verity, Jr., Secretary

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William E. Evans, Under Secretary for Oceans and Atmosphere

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Thomas N. Pyke, Jr., Assistant Administrator

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Michael A. Chinnery, Director

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Editor: Helen E. Coffey

Chief: Joe H. Allen
Solar-Terrestrial Physics Division

Staff: Daniel C. Wilkinson
Carol Weathers
John A. McKinnon

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H α SOLAR FLARES

AUGUST 1988

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 (10-6 Disk)	Corr (Sq Deg)	
0001	PALE	01	0003E	0003	0013	S19	W37	5084	07	29.3	10D	SF	3	E		37		F
0002		01	0011	00086	0018	N36	E30	5092A	08	3.4	7	SF				103	1.4	DEIK
	VORO	01	0007E	0008	0018	N36	E29	5092A	08	3.3	11D	SF	2	C	0008	98	1.3	EI
	VORO	01	0011	0014	0018D	N36	E30	5092A	08	3.4	7D	SF	2	C	0014	108	1.4	DIK
0003	LEAR	01	0342	0342	0345	N11	W49	5085	07	28.6	3	SF	3	E		13		
0004		01	04031	0404	0436	N14	W34	5090	07	29.7	33	1N C 2.8				100	2.1	FY
	LEAR	01	0403	0404	0442	N14	W33	5090	07	29.8	39	SF C 2.8	3	E		36		
	TACH	01	0404	0409U	0430	N14	W34	5090	07	29.7	26	1B		C	0409	163	2.1	FY
0005		01	05244	0622	0710	N32	E27	5092	08	3.4	106	1N				506	6.5	FY
	MITK	01	0524		0711D	N32	E27	5092	08	3.4	107D	2B		P	0634	680	8.8	F
	TACH	01	0528		0541D	N31	E27	5092	08	3.3	13D	1N		C	0540	332	4.2	FY
	KANZ	01	0612E	0622	0710	N32	E28	5092	08	3.5	58D	1N		P				F
0006		01	0534	0624*	0712	N35	E27	5092A	08	3.4	98	1N M 2.0				335	6.0	EF
	SVTO	01	0533E	0624	0708D	N35	E30	5092A	08	3.6	95D	1B M 2.0	2	E		188		F
	LEAR	01	0534	0627	0709	N34	E28	5092A	08	3.5	95	1F	3	E		98		
	ABST	01	0540E	0540U	0542D	N35	E28	5092A	08	3.5	2D	1N		P	0540	175	2.3	E
	CATA	01	0642E	0642	0705D	N35	E27	5092A	08	3.4	23D	2B	2	P	0642	731	9.6	
	YUNN	01	0642E	0643	0716	N34	E24	5092A	08	3.2	34D	2B		P		482	6.1	F
0007	KHAR	01	0908	0911	0933	N25	W07	5096	07	31.8	25	SF	2	P	0911			DH
0008	KHAR	01	0924	0925	0942	N14	W41	5090	07	29.4	18	1F	2	P	0928	160	2.3	E
0009	KHAR	01	0933	0935	0952	N13	W56	5085	07	28.3	19	SF	2	P	0939	70	1.3	DH
0010	KHAR	01	0950U	0958U	1002	S26	E33	5097	08	4.0	12U	SF	2	V	0958			DH
0011	KANZ	01	1207	1207	1215	S20	W44	5084	07	29.2	8	SF		P				
0012		01	16425	16461	1654	N24	W11	5096	07	31.8	12	SF				10		F
	KANZ	01	1642	1646	1654	N24	W12	5096	07	31.8	12	SF		P				
	HOLL	01	1647	1647	1654	N25	W10	5096	07	31.9	7	SF	3	E		10		F
0013		01	17033	17061	1744	N16	W40	5090	07	29.8	41	SF				24		F
	HOLL	01	1703	1707	1815	N15	W39	5090	07	29.8	72	SF	3	E		24		F
	KANZ	01	1706	1706	1714	N18	W41	5090	07	29.7	8	SF		P				
0014		01	17382	17402	1753	N30	E15	5092	08	2.9	15	SF				18		
	HOLL	01	1738	1742	1753	N31	E16	5092	08	3.0	15	SF	3	E		19		
	RAMY	01	1739	1740	1753	N30	E15	5092	08	2.9	14	SF	3	E		16		
	KANZ	01	1740	1740	1742D	N30	E15	5092	08	2.9	2D	SF		P				
0015	HOLL	01	2042E	2044U	2044D	S27	E30	5097	08	4.2	2D	SF	2	E		23		
0016	PALE	01	2248	2250	2256D	N12	W46	5090	07	29.6	8D	SF	3	E		32		F
0017	PALE	01	2311	2319	2321	N12	W48	5085	07	29.4	10	SF	3	E		33		F
0018	LEAR	01	2334	2343	2347	N15	W42	5090	07	29.9	13	SF	3	E		25		
0019	LEAR	01	2356	2402	2416	N11	W47	5090	07	29.6	20	SF	3	E		20		
0020		02	0020	00328	0040	S21	W46	5084	07	29.6	20	SN				19	0.4	
	LEAR	02	0020	0032	0037	S20	W46	5084	07	29.6	17	SF	3	E		14		
	YUNN	02	0038E	0040	0044	S22	W46	5084	07	29.6	6D	SN		P		24	0.4	
0021		02	04293	0439	0444	S26	E27	5097	08	4.3	15	SN				28	0.3	D
	TACH	02	0429	0434U	0446	S26	E27	5097	08	4.3	17	SB		C	0434	26	0.3	D
	PALE	02	0432	0439	0443	S26	E27	5097	08	4.3	11	SF	3	E		29		
0022		02	05109	05146	0530	N10	W46	5090	07	29.8	20	SN				40	1.0	D
	TACH	02	0510	0514	0537	N10	W45	5090	07	29.9	27	SB		C	0514	66	1.0	D
	LEAR	02	0519	0520	0523	N10	W46	5090	07	29.9	4	SF	3	E		14		

H α SOLAR FLARES

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Aug 88

AUGUST 1988

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
					Region	Mo	Day							Apparent (10-6 Disk)	Corr (Sq Deg)		
0023	TACH	02 0601		0606	N25	W01	5092	08	2.2	5	SB		C	0601	97	1.1	D
		02 0601		0628	No Flare Patrol												
0024		02 06484	0652*	0705	N14	W50	5090	07	29.6	17	SF C 1.5				69	1.6	DE
	YUNN	02 0648	0652	0658D	N13	W50	5090	07	29.6	10D	SN C 1.5		P		80	1.3	
	KANZ	02 0651	0654	0705	N15	W50	5090	07	29.6	14	SF		P				E
	SVTO	02 0652	0658U	0706D	N15	W46	5090	07	29.9	14D	SF C 1.5	2	E		19		
	PEKG	02 0717E	0717	0717D	N14	W52	5090	07	29.5	14D	SF		P	0717	109	1.8	D
0025		02 08031	08031	0813	N14	W51	5090	07	29.6	10	SN				21		
	LEAR	02 0803	0803	0807	N14	W51	5090	07	29.6	4	SF		3	E	21		
	KANZ	02 0804	0804	0819	N15	W51	5090	07	29.6	15	SN		P				
0026		02 08365	08403	0848	N15	W52	5090	07	29.5	12	SN				14		
	KHAR	02 0836	0840	0847	N16	W53	5090	07	29.4	11	SN	2	V	0840			
	KANZ	02 0839	0843	0850	N16	W51	5090	07	29.6	11	SN		P				
	LEAR	02 0841	0842	0847	N14	W51	5090	07	29.6	6	SF	3	E		14		
0027		02 0905	0913	0932	N16	W52	5090	07	29.5	27	SN						DH
	KANZ	02 0905	0913	0930	N16	W52	5090	07	29.5	25	SN		P				
	KHAR	02 0920E	0920U	0935	N16	W53	5090	07	29.5	15D	SN	2	V	0920			DH
0028		02 1044	10431	1046	N26	W02	5092	08	2.3	2	SF				35	0.4	D
	KHAR	02 1042E	1043	1048	N26	W01	5092	08	2.4	6D	SF	2	P	1045	35	0.4	D
	KANZ	02 1044	1044	1044	N25	W03	5092	08	2.2	6	SF		P				
0029		02 1250	1250	1258	N30	E07	5092	08	3.1	8	SF				19		
	RAMY	02 1250	1250	1257	N29	E03	5092	08	2.8	7	SF	3	E		19		
	KANZ	02 1250	1250	1258	N30	E11	5092	08	3.4	8	SF		P				
0030		02 1548	1557	1646	N17	W54	5090	07	29.6	58	1N C 9.5				92		
	RAMY	02 1548	1557	1634	N14	W55	5090	07	29.6	46	1N C 9.5	3	E		124		
	HOLL	02 1634E	1637U	1657	N20	W54	5090	07	29.7	23D	SF	2	E		60		
0031	RAMY	02 1600	1611	1622	N30	E10	5092	08	3.4	22	SF	3	E		13		
0032		02 17212	17241	1800	N31	E10	5092	08	3.5	39	1B M 1.7				148		H
	HOLL	02 1721	1724	1805	N31	E10	5092	08	3.5	44	1B M 1.7	3	E		141		H
	PALE	02 1723	1725	1754	N31	E10	5092	08	3.5	31	1B M 1.7	3	E		154		H
0033		02 17306	17334	1801	N13	W56	5090	07	29.6	31	SF C 7.5				47		EF
	HOLL	02 1730	1733	1810	N13	W56	5090	07	29.6	40	SN C 7.5	3	E		87		FE
	RAMY	02 1732	1733	1807	N12	W58	5090	07	29.5	35	SF C 7.5	3	E		41		F
	PALE	02 1736	1737	1745	N15	W53	5090	07	29.8	9	SF C 7.5	3	E		13		
0034	HOLL	02 1810	1816	1847	N15	W66	5085	07	28.9	37	SF	3	E		23		H
0035		02 18204	1834	1852	N17	W62	5090	07	29.1	32	SF C 6.5				48		F
	HOLL	02 1820	1833U	1859D	N20	W62	5090	07	29.1	39D	SF C 6.5	3	E		59		
	RAMY	02 1824	1834	1852	N14	W62	5090	07	29.2	28	SF C 6.5	3	E		36		F
0036	RAMY	02 1857	1858	1903	S21	W61	5084	07	29.2	6	SF	3	E		15		F
0037	RAMY	02 1940	1942	1959	S19	W61	5084	07	29.3	19	SF	3	E		22		
0038	HOLL	02 2035	2040	2116	N15	W54	5090	07	29.9	41	SF C 5.7	3	E		40		F
0039		02 22043	22052	2216	N31	E08	5092	08	3.5	12	SF C 5.1				42		FH
	HOLL	02 2204	2205	2215	N31	E07	5092	08	3.5	11	SN C 5.1	3	E		58		H
	PALE	02 2207	2207	2217	N31	E07	5092	08	3.5	10	SF C 5.1	3	E		47		H
	RAMY	02 2208E	2208U	2216D	N31	E09	5092	08	3.6	8D	SF C 5.1	1	E		20		F
0040		02 22038	2211	2239	N15	W58	5090	07	29.6	36	SN C 7.8				76		F
	HOLL	02 2203	2211	2248	N15	W59	5090	07	29.5	45	SB C 7.8	3	E		95		F
	PALE	02 2211	2211	2230	N15	W57	5090	07	29.7	19	SF C 7.8	3	E		91		
	RAMY	02 2213E	2214U	2216D	N15	W59	5090	07	29.5	3D	SN C 7.8	1	E		42		
		02 2310		2330	No Flare Patrol												
		02 2342		2400	No Flare Patrol												

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
03 0000					0003 No Flare Patrol												
0041	LEAR	03 0018	0019	0026	S22	W57	5084	07	29.7	8	SF	3	E		21		
0042	YUNN	03 0141E	0141U	0144	N26	W30	5096	07	31.7	3D	SN		P	0141	24	0.3	
0043	YUNN	03 0234	0237	0256	N30	E00	5092	08	3.1	22	SF		C		32	0.4	
0044	YUNN	03 0259	0302	0303	N34	E03	5092A	08	3.4	4	SF		C		64	0.7	
0045	TACH	03 0307E		0341	N30	E02	5092	08	3.3	34D	SN		C	0308	112	1.3	E
0046	TACH	03 0341	0342U	0401	N25	W32	5096	07	31.7	20	SB		C	0342	87	1.1	E
0047	TACH	03 0524	0527	0537	N20	W60	5090	07	29.7	13	SB		C	0527	76	1.5	D
0048	TACH	03 0557E	0557U	0606D	N28	W01	5092	08	3.2	9D	SB		C	0557	56	0.6	E
0049	TACH	03 0557	0557	0606	N25	W26	5096	08	1.2	9	SB		C	0557	61	0.7	E
0050		03 0624	0639	0720	N14	W62	5090	07	29.7	56	1N C 3.3				94	2.1	
	LEAR	03 0624	0639	0742	N14	W61	5090	07	29.7	78	SN C 3.3	3	E		91		
	YUNN	03 0653E	0653U	0658	N13	W62	5090	07	29.7	5D	1F C 3.3		P	0653	96	2.1	
0051	YUNN	03 0704	0708	0720	N11	W67	5085	07	29.3	16	SF		C		24		
0052	LEAR	03 0727	0728	0738	S21	W60	5084	07	29.8	11	SF	3	E		40		
0053		03 0829I	0830A	0905	N15	W70	5090	07	29.1	36	2B C 8.3				387		
	LEAR	03 0829	0832	0907	N15	W70	5090	07	29.1	38	2N C 8.3	3	E		261		
	CATA	03 0830	0830	0907	N16	W70	5090	07	29.1	37	3B	2	C	0830	562		
	YUNN	03 0830E	0834	0902	N15	W69	5090	07	29.2	32D	2B C 8.3		P		338		
0054		03 1008E	1033	1102	N16	W63	5090	07	29.7	54D	1B				94	4.3	EF
	KANZ	03 1008E	1033	1108	N15	W62	5090	07	29.8	60D	1N		P				F
	KAND	03 1030E		1055	N17	W64	5090	07	29.7	25D	1B		P	1040	94	4.3	EF
0055	KAND	03 1224	1224	1230	S22	W68	5084	07	29.4	6	SB		P	1224	42		D
0056	KANZ	03 1258	1302	1309	N26	W31	5096	08	1.1	11	SF		P				
0057	KANZ	03 1412	1416	1420	N29	E80	5100	08	9.9	8	SF		P				
0058	HOLL	03 1435	1441	1512	N14	W67	5090	07	29.6	37	SF C 3.0	3	E		22		F
0059	HOLL	03 1525	1542	1546	N19	W68	5090	07	29.5	21	SN C 2.9	4	E		47		F
0060	HOLL	03 1848	1848	1859	N13	W68	5090	07	29.7	11	SF	3	E		29		F
03 1945					2011 No Flare Patrol												
0061	PALE	03 2034E		2104	N14	W64	5090	07	30.1	30D	SN M 1.3	3	E		88		F
03 2223					2331 No Flare Patrol												
0062	LEAR	04 0039	0047	0054	N13	W70	5090	07	29.8	15	SF	3	E		31		
0063	ABST	04 0450	0454	0459	N11	W85	5085	07	28.9	9	1N		C	0454	96		DV
0064	LEAR	04 0453	0453	0504	N14	W75	5090	07	29.6	11	SF C 2.2	3	E		33		
0065	ABST	04 0551	0552	0604	N31	W14	5092	08	3.1	13	SN		C	0552	87	1.0	DJ
0066		04 0710I	0710T	0723	N30	W13	5092	08	3.3	13	SN C 2.2				77	1.3	E
	CATA	04 0710	0710	0730D	N31	W12	5092	08	3.3	20D	SB	2	P	0710	84	1.0	E
	KAND	04 0710	0712	0715	N30	W13	5092	08	3.3	5	SN		P	0712	42	1.0	E
	LEAR	04 0711	0712	0722	N31	W13	5092	08	3.3	11	SF C 2.2	3	E		21		
	YUNN	04 0711	0717	0731	N30	W15	5092	08	3.1	20	SF C 2.2		C		161	1.9	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0067	KAND	04	0804	0805	0809	S23	W75	5084	07	29.6	5	SN		P	0805	42		D	
0068	CATA	04	1128	1128	1133	N27	W45	5096	08	1.0	5	SN	2	C	1128	56	0.9		
		04	1221		1239	No Flare Patrol													
		04	1421		1436	No Flare Patrol													
0069	HOLL	04	1716	1717	1729	N32	E78	5100	08	10.9	13	SF C 3.5	3	E		41		F	
0070	HOLL	04	1731	1733	1742	N25	W47	5096	08	1.1	11	SF	3	E		17			
0071		04	1819	1828*	1908	N30	W20	5092	08	3.2	49	SF C 2.8				46		FZ	
	RAMY	04	1819	1906	1938	N30	W20	5092	08	3.2	79	SF C 2.8	3	E		63		ZF	
	HOLL	04	1826	1828	1838	N29	W20	5092	08	3.2	12	SF C 2.0	3	E		28		F	
0072	RAMY	04	1926	1927	1941	N30	E74	5100	08	10.6	15	SF	3	E		63			
0073	RAMY	04	1957	2009	2016	N20	W48	5096	08	1.1	19	SF	3	E		49			
0074	RAMY	04	2040E	2042U	2045	N25	W51	5096	07	31.9	5D	SF C 1.6	2	E		24			
0075	RAMY	04	2052E	2057U	2120D	N27	W26	5092	08	2.8	28D	SF C 5.5	2	E		80		F	
0076	PALE	04	2315	2323	2328	N25	W28	5092	08	2.8	13	SF	3	E		11			
0077		05	0030	0030	0046	N25	W52	5096	08	1.0	16	SF				16			
	PALE	05	0030	0030	0038	N25	W53	5096	07	31.9	8	SF	3	E		15			
	LEAR	05	0031	0031	0055	N25	W50	5096	08	1.1	24	SF	3	E		17			
0078	ABST	05	0520	0524	0553	N25	W57	5096	07	31.8	33	SF		C	0524	87	1.6	D	
0079	ABST	05	0600	0604	0621	N28	W25	5092	08	3.3	21	SF		C	0604	87	1.0	DT	
0080	LEAR	05	0638	0640	0653	N29	E71	5100	08	10.8	15	SF	3	E		60			
0081	KAND	05	1045	1050	1104	S14	E12	5101	08	6.3	19	SF		P	1050	21	0.5	E	
0082	CATA	05	1050	1050	1055	N27	W59	5096	07	31.8	5	SN	2	C	1050	56	1.2		
0083	KAND	05	1144	1145	1154	S14	E12	5101	08	6.4	10	SB		O	1145	31	0.7	E	
0084	HOLL	05	1739	1742	1803	N27	W36	5092	08	2.9	24	SF	3	E		51		F	
0085	RAMY	05	2114	2128U	2153	N28	E56	5100	08	10.3	39	SF	3	E		50			
		05	2206		2223	No Flare Patrol													
		05	2242		2345	No Flare Patrol													
0086	PALE	05	2259E	2313U	2346D	N27	E56	5100	08	10.3	47D	SF	2	E		36			
0087		06	0516	0522	0548	N28	E58	5100	08	10.7	32	1N				156	3.2	E	
	MITK	06	0516	0522	0556	N27	E57	5100	08	10.7	40	1N		C	0522	120	2.3	E	
	ABST	06	0518	0522	0539	N29	E59	5100	08	10.8	21	1N		C	0522	192	4.2	E	
0088	ABST	06	0641	0644	0658	N23	W48	5092	08	2.6	17	SF		C	0644	87	1.4	D	
0089		06	0718	0726	0742	N25	E38	5099	08	9.2	24	1N				384	5.2	F	
	KANZ	06	0718	0726	0742	N22	E39	5099	08	9.3	24	SN		P				F	
	ABST	06	0718	0727	0751D	N27	E37	5099	08	9.2	33D	1N		P	0727	262	3.6	F	
	CATA	06	0728E	0728	0735D	N25	E38	5099	08	9.2	7D	2B	2	P	0728	506	6.9		
0090	RAMY	06	1311	1311	1322	N26	W47	5092	08	2.9	11	SF	3	E		13		F	
0091		06	1635	1638	1711	N28	W44	5092	08	3.2	36	SF C 3.8				46		EF	
	HOLL	06	1635	1638	1722	N28	W45	5092	08	3.2	47	SF C 3.8	3	E		44		FE	
	KANZ	06	1635	1639	1651	N30	W42	5092	08	3.4	16	SF		P					
	RAMY	06	1636	1639	1719	N27	W46	5092	08	3.1	43	SF C 3.8	3	E		49		FE	

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
					Lat	CMD	Region							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0092		06 1858	1901	1911	N28	W48	5092	08 3.0	13	SF				17		F	
	HOLL	06 1858	1901	1911	N28	W48	5092	08 3.0	13	SF	3	E		18		F	
	RAMY	06 1858	1901	1931D	N27	W48	5092	08 3.0	33D	SF	3	E		16			
0093		06 1956	1956	2013	S14	W10	5101	08 6.1	17	SF				28			
	PALE	06 1956	1956	2014	S14	W10	5101	08 6.1	18	SF	3	E		29			
	HOLL	06 1956	1958	2012	S14	W10	5101	08 6.1	16	SF	3	E		27			
0094		06 2032	2039	2116	N30	E48	5100	08 10.6	44	SF C 1.7				71		F	
	HOLL	06 2032	2037U	2129	N29	E49	5100	08 10.7	57	SF C 1.7	3	E		91		F	
	PALE	06 2035	2039	2102	N30	E48	5100	08 10.6	27	SF C 1.7	3	E		51		F	
		06 2256		2304	No Flare Patrol												
		06 2311		2320	No Flare Patrol												
		06 2328		2400	No Flare Patrol												
		07 0000		0004	No Flare Patrol												
		07 0036		0058	No Flare Patrol												
		07 0202		0224	No Flare Patrol												
0095	LEAR	07 0445	0446	0451	N14	E88	5105	08 13.8	6	SF	3	E		19			
0096	ABST	07 0645	0646	0658	N16	E82	5105	08 13.5	13	1F		C	0646	79		DV	
0097	CATA	07 1031E	1050	1050D	S16	W28	5101	08 5.3	19D	SN	2	P	1050	56	0.7		
0098		07 1518	1518	1536	N26	W62	5092	08 2.8	18	SF C 5.5				19			
	KANZ	07 1518	1518	1538	N28	W61	5092	08 2.9	20	SF		P					
	RAMY	07 1518	1521	1535	N25	W62	5092	08 2.8	17	SF C 5.5	3	E		19			
0099	RAMY	07 1720	1721	1737D	N26	W61	5092	08 3.0	17D	SF C 5.9	4	E		55		E	
		07 1738		1741	No Flare Patrol												
		07 1754		1818	No Flare Patrol												
		07 1830		1838	No Flare Patrol												
0100	HOLL	07 1944	1948	1952	N28	W60	5092	08 3.1	8	SF C 2.0	3	E		15		F	
0101	HOLL	07 2013	2020	2024	N27	W63	5092	08 2.9	11	SF	3	E		22		F	
0102	HOLL	07 2119	2123	2124D	N27	W62	5092	08 3.0	5D	SF	3	E		46			
		07 2129		2239	No Flare Patrol												
		07 2244		2321	No Flare Patrol												
0103		08 0121	0128	0142	N28	W64	5092	08 3.0	21	SN				46		D	
	LEAR	08 0121	0135	0142	N28	W62	5092	08 3.2	21	SF	3	E		28			
	YUNN	08 0122	0128	0141	N28	W65	5092	08 3.0	19	SN		C		64		D	
0104	YUNN	08 0122	0128	0138	S15	W30	5101	08 5.8	16	SF		C		32	0.4		
0105	YUNN	08 0122	0138	0141D	N22	E27	5099	08 10.1	19D	SF		P		129	1.5		
0106	YUNN	08 0148	0158U	0210	S16	W27	5101	08 6.0	22	SF		P	0158	32	0.4		
0107	ABST	08 0537	0540	0543	S15	W30	5101	08 6.0	6	SF		C	0540	87	1.1	D	
0108	ABST	08 0709	0710	0715	N27	W67	5092	08 3.1	6	1F		C	0710	87		DV	
0109	YUNN	08 0714E	0714U	0726	N27	E25	5100	08 10.2	12D	SF		P	0714	32	0.4		
0110	ABST	08 0745	0747	0758	N22	E77	5106	08 14.2	13	SF		C	0747	44		D	
0111	KANZ	08 0748	0748	0756	N19	E70	5105	08 13.7	8	SF		P					
0112		08 0756	0801	0848	N29	W66	5092	08 3.1	52	SN M 1.3				68	2.0	F	
	KANZ	08 0756	0804	0845	N30	W65	5092	08 3.2	49	SF		P					
	LEAR	08 0758	0803	0856D	N29	W65	5092	08 3.2	58D	SF M 1.3	3	E		87			
	CATA	08 0801E	0801	0820D	N27	W64	5092	08 3.3	19D	SB	2	P	0801	84	2.0		
	YUNN	08 0804E	0804U	0852	N29	W68	5092	08 3.0	48D	SB M 1.3		P	0804	32		F	

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Area Time (UT)	Area Measurement		Remarks	
													Apparent (10-6 Disk)	Corr (Sq-Deg)		
0113	YUNN	08 0847	0849U	0853	N22 E79	5106	08	14.4	6	SF		P	0849	48		
0114		08 09491	09503	1010	N34 W68	5092	08	3.0	21	1N				169		
	KANZ	08 0949	0953	1004	N35 W67	5092	08	3.0	15	SF		P				
	CATA	08 0950	0950	1016	N33 W68	5092	08	3.0	26	1B	2	C	0950	169		
0115	KANZ	08 1232	1232	1236	N26 W84	5096	08	2.0	4	SF		P				
		08 1344		1349	No Flare Patrol											
0116	RAMY	08 1603E	1605	1611	N23 E22	5099	08	10.4	8D	SF C 4.5	2	E		17		
		08 2056		2100	No Flare Patrol											
		08 2141		2337	No Flare Patrol											
		09 0038		0050	No Flare Patrol											
0117		09 0226	0232	0242	N22 E14	5099	08	10.2	16	SF				161	1.8	E
	MITK	09 0226	0232	0240	N22 E14	5099	08	10.2	14	SF		C	0232			
	YUNN	09 0231E	0231U	0245	N22 E15	5099	08	10.2	14D	SF		P	0231	161	1.8	E
0118	TACH	09 0418	0430U	0449	S12 W42	5101	08	6.0	31	1B		C	0430	214	3.2	D
0119	CATA	09 0635E	0635	0650	N30 W77	5092	08	3.2	15D	SN	2	P	0635	28		
0120	ABST	09 0642E	0642U	0706D	N20 E14	5099	08	10.4	24D	SF		P	0642	87	0.9	BD
0121		09 0635	0645*	0720	N24 E61	5106	08	14.0	45	1N				87	2.3	DEH
	BUCA	09 0635	0655	0720	N26 E60	5106	08	13.9	45	1F		C	0655	107	2.3	E
	ABST	09 0642E	0645	0706D	N23 E62	5106	08	14.0	24D	1N		P	0645	105		D
	KHAR	09 0655E		0715U	N24 E62	5106	08	14.1	20U	SN	2	P	0659	50		DH
0122	ABST	09 0659	0701	0706D	N23 W88	5092	08	2.5	7D	1F		P	0701	70		D
0123	CATA	09 0745	0745	0751	N27 W85	5092	08	2.7	6	SB	2	C	0745	28		
0124	KHAR	09 0755		0800D	S23 W58		08	4.9	5D	SF	2	P	0757	80	1.7	E
0125	KANZ	09 0822	0822	0829	N14 E55	5105	08	13.5	7	SN		P				
0126	YUNN	09 0836E	0837	0851	N14 E57	5105	08	13.7	15D	SN		P		32	0.6	
0127	YUNN	09 0836E	0837	0848	N24 E12	5099	08	10.3	12D	SN		P		64	0.7	
0128	YUNN	09 0836E	0837	0910	S14 W46	5101	08	5.9	34D	SN		P		48	0.8	
0129		09 0856	09022	0910	N14 E54	5105	08	13.4	14	1N				177	3.2	
	YUNN	09 0856	0902	0912	N14 E56	5105	08	13.6	16	1N		C		177	3.2	
	KANZ	09 0856	0904	0908	N15 E53	5105	08	13.4	12	SF		P				
0130	KANZ	09 1041	1041	1045D	N31 W78	5092	08	3.3	4D	SN		P				
0131	CATA	09 1131	1131	1144D	N15 E54	5105	08	13.6	13D	SB	2	P	1131	112	2.0	
0132	KANZ	09 1532	1536	1552	N16 E49	5105	08	13.4	20	SF		P				
0133		09 1540	15401	1548	N22 E08	5099	08	10.3	8	SF C 3.3				28		F
	KANZ	09 1540	1540	1548	N22 E08	5099	08	10.3	8	SF		P				
	RAMY	09 1540	1541	1602D	N22 E09	5099	08	10.3	22D	SF C 3.3	2	E		28		F
		09 1959		2220	No Flare Patrol											
		09 2230		2240	No Flare Patrol											
		09 2244		2250	No Flare Patrol											
0134	YUNN	10 0043E	0046U	0046D	N22 E03	5099	08	10.3	3D	SF		P	0046	64	0.7	
0135	YUNN	10 0153	0158	0158D	N21 E01	5099	08	10.1	5D	SF		P		80	0.9	

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	C	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0136	10	0232	0234	0240	N22	E00 5099	08	10.1	8	SN	C 4.9					89	2.1	F	
	YUNN	10 0232E	0232U	0259D	N21	E02 5099	08	10.2	27D	1B	C 4.9		P	0232		193	2.1	F	
	LEAR	10 0232	0234	0239	N22	W01 5099	08	10.0	7	SF	C 4.9	3	E			36		F	
	PALE	10 0232E	0236U	0240	N22	E00 5099	08	10.1	8D	SF	C 4.9	3	E			37		F	
0137	YUNN	10 0232E	0242	0259D	N21	E49 5106	08	13.9	27D	SF			P			64	1.0	D	
0138	10	0257E	0259U	0310D	S16	W56 5101	08	5.9	13D	SN	C 3.2					66	1.8	F	
	YUNN	10 0257E	0259U	0259D	S16	W59 5101	08	5.6	2D	SN	C 3.2		P	0259		80	1.8	F	
	PALE	10 0258E	0300U	0310D	S15	W53 5101	08	6.1	12D	SF	C 3.2	3	E			51		F	
0139	ABST	10 0423	0424	0442	N22	E50 5106	08	14.0	19	SF			C	0424		87	1.4	DV	
0140	LEAR	10 0629	0634	0658	S15	W58 5101	08	5.9	29	SF			3	E			29		
0141	10	0644E	0644	0650	N22	W02 5099	08	10.1	6D	SN						126	1.4		
	CATA	10 0644E	0644	0650	N24	W03 5099	08	10.0	6D	SN			2	P	0644		112	1.2	
	CATA	10 0644E	0644	0720D	N21	W01 5099	08	10.2	36D	SN			2	P	0644		141	1.5	
0142	10	0617*	06415	0704	N23	W02 5099	08	10.1	47	SN	C 2.1					129	1.9	EFJK	
	ABST	10 0617	0646	0720	N22	W01 5099	08	10.2	63	SN			C	0646		175	1.9	FJK	
	LEAR	10 0640	0641	0705	N23	W02 5099	08	10.1	25	SF	C 2.1	3	E			36		F	
	ABST	10 0640	0642	0648	N24	W02 5099	08	10.1	8	SN			C	0642		175	1.9	EJ	
0143	ABST	10 0721E	0726U	0733	N26	W90 5092	08	3.3	12D	1N			P	0726		87		AD	
0144	10	08051	08091	0818	S15	W58 5101	08	5.9	13	SF	C 7.2					116	4.5		
	LEAR	10 0805	0809	0817	S15	W57 5101	08	6.0	12	SF	C 7.2	3	E			39			
	YUNN	10 0806	0809	0815	S15	W60 5101	08	5.8	9	1N	C 7.2		C			193	4.5		
	KANZ	10 0806	0810	0823	S14	W57 5101	08	6.0	17	SF			P						
0145	YUNN	10 0806E	0806U	0809	N23	W04 5099	08	10.0	3D	SF			P	0806		129	1.4	F	
0146	YUNN	10 0824	0828	0840	N32	E03 5100	08	10.6	16	SN			C			24	0.3		
0147	10	0846	08473	0900	S15	W57 5101	08	6.0	14	SF						16			
	LEAR	10 0846	0847	0858	S16	W57 5101	08	6.0	12	SF			3	E		16			
	KANZ	10 0846	0850	0901	S14	W57 5101	08	6.0	15	SF			P						
0148	10	09072	09123	0929	N20	E44 5106	08	13.7	22	SN						120	2.6		
	YUNN	10 0907	0915	0928	N21	E46 5106	08	13.9	21	1B			C			241	3.6		
	CATA	10 0908E	0912	0935	N20	E46 5106	08	13.9	27D	SB			2	P	0912		112	1.7	
	SVTO	10 0908E	0915	0922	N20	E41 5106	08	13.5	14D	SF			2	E			58		
	LEAR	10 0908	0915	0930	N20	E44 5106	08	13.7	22	SF			3	E			67		
	KANZ	10 0909	0913	0928	N20	E45 5106	08	13.8	19	SF			P						
0149	10	09172	09172	0926	N22	W01 5099	08	10.3	9	SF						72	1.4		
	KANZ	10 0917	0917	0924	N23	W00 5099	08	10.4	7	SF			P						
	LEAR	10 0917	0919	0922	N21	W02 5099	08	10.2	5	SF			3	E		15			
	YUNN	10 0919	0919U	0931	N22	W02 5099	08	10.2	12	SN			P	0919		129	1.4		
0150	10	14091	14101	1414	N16	E37 5105	08	13.4	5	SF	C 3.5					17			
	RAMY	10 1409	1411	1415	N16	E38 5105	08	13.5	6	SF	C 3.5	3	E			17			
	KANZ	10 1410	1410	1414	N15	E36 5105	08	13.3	4	SF			P						
0151	10	14066	14131	1424	S14	W62 5101	08	5.9	18	SF						37			
	KANZ	10 1406	1414	1426	S13	W62 5101	08	5.9	20	SF			P						
	RAMY	10 1412	1413	1423	S16	W62 5101	08	5.9	11	SF			3	E			37		
0152	RAMY	10 1438	1441	1503	S15	W64 5101	08	5.8	25	SF			3	E			13		
0153	RAMY	10 1736	1736	1752	N23	E41 5106	08	13.9	16	SF			3	E			22		
	10	1857		1906	No Flare Patrol														
	10	1924		2313	No Flare Patrol														
0154	LEAR	11 0017	0033	0049	S15	W69 5101	08	5.8	32	SF			3	E			40		
0155	LEAR	11 0034	0036	0053	N16	E31 5105	08	13.4	19	SF			3	E			31		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement			Remarks
												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0156	PALE	11	0130	0133	0142	S14 W69	5101	08 5.8	12	SF	3 E		25		
0157	LEAR	11	0140	0141	0146	N16 E31	5105	08 13.4	6	SF	4 E		36		
0158		11	02052	0208	0216	N14 E34	5105	08 13.6	11	SF			17		F
	PALE	11	0205	0206U	0216	N15 E34	5105	08 13.7	11	SF	3 E		15		F
	LEAR	11	0207	0208	0215	N13 E34	5105	08 13.6	8	SF	4 E		19		
0159		11	0309	0310I	0316	N17 E30	5105	08 13.4	7	SF			55	0.9	EF
	TACH	11	0303E	0309U	0313D	N16 E28	5105	08 13.2	10D	SF	C	0309	80	1.0	E
	YUNN	11	0307E	0311	0315	N17 E30	5105	08 13.4	8D	SF	P		64	0.8	
	PALE	11	0309	0310	0316	N17 E32	5105	08 13.6	7	SF	3 E		22		F
0160	LEAR	11	0501	0504	0511	S24 E43	5108	08 14.5	10	SF	4 E		15		
0161	HOLL	11	1416E	1420	1429	S13 W77	5101	08 5.8	13D	SF	4 E		32		
		11	1738		1830	No Flare Patrol									
0162	HOLL	11	1933	1936	1946	N22 E28	5106	08 14.0	13	SF	3 E		15		
		11	2120		2132	No Flare Patrol									
		11	2159		2400	No Flare Patrol									
0163	PALE	11	2252E	2252U	2315D	N14 E17	5105	08 13.2	23D	SF	3 E		18		H
		12	0000		0017	No Flare Patrol									
		12	0024		0249	No Flare Patrol									
0164	YUNN	12	0302E	0312U	0318	N20 E23	5106	08 13.9	16D	SN	P	0312	80	0.9	F
		12	0303		0304	No Flare Patrol									
0165	SVTO	12	0604	0607U	0612	N30 W23	5100	08 10.4	8	SF C	1.0 2 E		35		H
0166		12	09394	0940*	0957	S28 E70	5110	08 17.9	18	SN			75		DH
	KHAR	12	0939	0946	0958	S28 E72	5110	08 18.0	19	SN	2 P	0946			DH
	CATA	12	0940	0940	0945D	S28 E68	5110	08 17.7	5D	1N	2 P	0945	84		
	KANZ	12	0943	0943	0957	S29 E69	5110	08 17.8	14	SN					
	SVTO	12	0945E	0950	0956	S25 E70	5110	08 17.8	11D	SN	2 E		66		
0167	KHAR	12	1002	1003	1008	N24 E85	5109	08 19.0	6	SF	2 V	1003			D
0168	KHAR	12	1026U		1048D	N30 W28	5100	08 10.2	22U	SF	2 V	1028			EL
0169	KAND	12	1305	1307	1312	S21 E18	5108	08 13.9	7	SF	P	1307	10	0.3	D
0170	HOLL	12	1422	1423	1433	N17 E12	5105	08 13.5	11	SF	3 E		12		F
0171	HOLL	12	1543	1545	1549	N26 W35	5099	08 9.9	6	SF	3 E		10		F
0172	HOLL	12	1744	1750	1808	N14 E04	5105	08 13.0	24	SF	4 E		15		FH
0173	HOLL	12	1821	1824	1849	N16 E10	5105	08 13.5	28	SF	4 E		27		
0174	HOLL	12	2056	2058	2103	N27 E17	5106	08 14.2	7	SF	4 E		19		
0175		13	07532	07546	0816	N23 E12	5106	08 14.2	23	SN			60	0.7	FH
	YUNN	13	0753	0754	0757D	N23 E13	5106	08 14.3	4D	SN	P		48	0.5	
	KANZ	13	0754	0757U	0757D	N23 E12	5106	08 14.2	3D	SF	P				
	SVTO	13	0755	0759	0813	N24 E12	5106	08 14.2	18	SF	3 E		47		FH
	CATA	13	0800E	0800	0818	N23 E13	5106	08 14.3	18D	SN	2 P	0800	84	0.9	
0176	CATA	13	1040	1040	1045	N27 W42	5100	08 10.2	5	SB	2 C	1040	112	1.6	
0177		13	18361	18361	1848	N24 E02	5106	08 13.9	12	SF			12		F
	RAMY	13	1836	1836	1848	N24 E01	5106	08 13.8	12	SF	3 E		13		
	HOLL	13	1837	1837	1849	N25 E03	5106	08 14.0	12	SF	3 E		11		F

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF CMD Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement			Remarks	
											Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0178		13 2022	2024*	2053	N23 W48	5099	08 10.2	31	SF C 1.3			37		F	
	HOLL	13 2022	2024	2036D	N22 W46	5099	08 10.3	14D	SF C 1.3	3 E		34		F	
	PALE	13 2030E	2030U	2053	N26 W51	5099	08 9.9	23D	SF C 1.3	3 E		60		F	
	RAMY	13 2045E	2048	2105D	N22 W47	5099	08 10.2	20D	SF	1 E		17			
		13 2232		2239	No Flare Patrol										
		13 2252		2324	No Flare Patrol										
		14 0250		0308	No Flare Patrol										
0179	ABST	14 0510	0512U	0526	N15 W80		08 8.1	16	SF		P	0512	87	0.9	D
0180	HOLL	14 1759	1805	1813	S20 W03	5108	08 14.5	14	SF		4 E		12		
0181		14 19101	19121	1920	N26 W10	5106	08 14.0	10	SF				29		E
	PALE	14 1910	1912	1918	N27 W11	5106	08 13.9	8	SF		3 E		23		
	RAMY	14 1910	1913	1920	N26 W10	5106	08 14.0	10	SF		3 E		28		
	HOLL	14 1911	1912	1921	N26 W10	5106	08 14.0	10	SF		4 E		35		E
		14 2206		2222	No Flare Patrol										
		14 2351		2400	No Flare Patrol										
		15 0000		0008	No Flare Patrol										
		15 0028		0048	No Flare Patrol										
0182	LEAR	15 0154	0155	0206	N26 W14	5106	08 14.0	12	SF C 1.0	3 E			24		
		15 0217		0254	No Flare Patrol										
0183	KANZ	15 1209	1209	1213	N27 W75	5099	08 9.7	4	SF		P				
0184		15 13113	13142	1326	S25 W16	5108	08 14.3	15	SF				31		F
	SVTO	15 1310E	1316	1319	S25 W15	5108	08 14.4	9D	SF		3 E		34		
	HOLL	15 1311	1314	1320	S25 W15	5108	08 14.4	9	SF		2 E		28		F
	KANZ	15 1312	1316	1339	S25 W17	5108	08 14.2	27	SF		P				
	RAMY	15 1314	1314	1346D	S25 W15	5108	08 14.4	32D	SF		3 E		30		
0185	HOLL	15 1544	1545	1554	S25 W17	5108	08 14.3	10	SF		3 E		18		
		15 1817		1908	No Flare Patrol										
		15 2013		2019	No Flare Patrol										
0186	HOLL	15 2034	2034	2043	N23 W20	5106	08 14.3	9	SF		3 E		17		H
0187	HOLL	15 2043	2044	2059	N15 W32	5105	08 13.4	16	SF C 1.1	3 E			36		
0188	HOLL	15 2148	2150	2155	N23 W21	5106	08 14.3	7	SF		3 E		10		
0189		16 04362	0439	0452	N16 W36	5105	08 13.5	16	SN				47	1.0	TZ
	TACH	16 0436	0448U	0456	N16 W36	5105	08 13.5	20	SN		C	0448	80	1.0	TZ
	LEAR	16 0438	0439	0449	N16 W37	5105	08 13.4	11	SF		3 E		14		
0190	SVTO	16 0518E	0520U	0530	S27 W24	5108	08 14.3	12D	SF		3 E		26		
0191		16 0547	0549	0602	S27 W26	5108	08 14.2	15	SF C 1.2				51	0.9	E
	YUNN	16 0543E	0543U	0558	S28 W26	5108	08 14.2	15D	SF C 1.2		P	0543	64	0.9	
	LEAR	16 0547	0549	0554	S26 W26	5108	08 14.2	7	SF C 1.2	3 E			10		
	HTPR	16 0549E		0615	S28 W27	5108	08 14.1	26D	SF		C	0553	80	0.9	E
0192		16 07351	07361	0746	N18 E82		08 22.6	11	SF				20		D
	HTPR	16 0735	0736	0748	N18 E80		08 22.4	13	SF		C	0736	20		
	KHAR	16 0736	0737	0745	N18 E85		08 22.8	9	SF		2 P	0737			D
0193	HTPR	16 0935	0937	1000	S21 W26	5108	08 14.4	25	SF		C	0937	80	0.9	E
0194		16 10532	10557	1113	S17 W17	5113	08 15.2	20	SN				57	0.6	E
	HTPR	16 1053	1102	1113	S18 W16	5113	08 15.2	20	SF		C	1102	30	0.3	E
	CATA	16 1055	1055	1100D	S16 W18	5113	08 15.1	5D	SN		2 P	1055	84	1.0	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0195		16	11206	11253	1200	N23	W31	5106	08	14.1	40	SN				111	1.8	E	
	HTPR	16	1120	1128	1215	N23	W30	5106	08	14.2	55	SN		C	1128	130	1.4	E	
	CATA	16	1121	1125	1125D	N24	W30	5106	08	14.1	4D	1N	2	P	1125	169	2.1		
	SVTO	16	1126	1135U	1145	N21	W32	5106	08	14.0	19	SF	2	E		34			
0196	HTPR	16	1213	1218	1240	N23	W40	5106	08	13.4	27	SF		C	1218	20	0.3		
0197		16	15361	1537	1545	N18	W45	5105	08	13.2	9	SF				20	0.4	E	
	HTPR	16	1536	1537	1546	N18	W44	5105	08	13.3	10	SF		C	1537	30	0.4	E	
	HOLL	16	1537	1537	1544	N18	W46	5105	08	13.1	7	SF	3	E		11			
0198		16	1646	1654	1704	N17	W43	5105	08	13.4	18	SF				30		F	
	HOLL	16	1646	1654	1707	N17	W43	5105	08	13.4	21	SF	3	E		33		F	
	RAMY	16	1652E	1654U	1702	N17	W43	5105	08	13.4	10D	SF	3	E		27			
0199	LEAR	17	0010	0012	0043	S20	W33	5108	08	14.5	33	SF C	1.6	3	E		66		
0200		17	0607*	0607*	0634	N16	W52	5105	08	13.3	27	SN				56	1.1	D	
	LEAR	17	0607	0607	0611	N15	W51	5105	08	13.4	4	SF	3	E		19			
	HTPR	17	0609E		0625	N16	W52	5105	08	13.3	16D	SN		C	0620	80	1.2		
	ABST	17	0643	0644	0650	N15	W52	5105	08	13.3	7	SF		C	0644	87	1.4	D	
	HTPR	17	0644	0645	0651	N16	W52	5105	08	13.3	7	SN		C	0645	40	0.6		
0201		17	0800*	0819*	0830	N27	W43	5106	08	14.0	30	SF				30	0.4	E	
	HTPR	17	0800	0819	0830	N28	W42	5106	08	14.0	30	SF		C	0819	30	0.4	E	
	KANZ	17	0834	0834	0838D	N26	W44	5106	08	13.9	4D	SF		P					
0202	KHAR	17	0851U		0904U	N18	W56	5105	08	13.1	13U	SF	2	V				L	
0203		17	09308	09372	0951	S26	W40	5108	08	14.3	21	SN				36	0.8	E	
	HTPR	17	0930	0939	0955	S28	W40	5108	08	14.3	25	SN		C	0939	30	0.4		
	KAND	17	0931	0937	0943	S25	W40	5108	08	14.3	12	SN		P	0937	42	1.3	E	
	KHAR	17	0938	0942U	0955	S24	W40	5108	08	14.3	17	SF	2	V	0942				
0204		17	1054	1055	1102	S18	W30	5113	08	15.2	8	SN				56	0.9	E	
	HTPR	17	1054	1055	1105	S20	W29	5113	08	15.2	11	SN		C	1055	80	0.9	E	
	SVTO	17	1056E	1056U	1058	S17	W31	5113	08	15.1	2D	SF	2	E		31			
0205		17	1057	1057	1130	N18	W52	5105	08	13.5	33	SN				57	1.0	E	
	CATA	17	1057	1057	1110D	N18	W53	5105	08	13.4	13D	SN	2	P	1057	84	1.4		
	HTPR	17	1057	1057	1130	N18	W51	5105	08	13.6	33	SF		C	1057	30	0.5	E	
0206		17	13254	13321	1401	N26	W45	5106	08	14.1	36	SF				51	1.0	EF	
	HTPR	17	1325	1333	1420	N27	W43	5106	08	14.2	55	SN		C	1333	70	1.0	E	
	KANZ	17	1328	1332	1351	N26	W46	5106	08	14.0	23	SF		P					
	HOLL	17	1329	1332	1353	N25	W45	5106	08	14.1	24	SF	3	E		32		F	
0207		17	13441	13473	1352	N16	W56	5105	08	13.3	8	SF				17			
	KANZ	17	1344	1347	1351	N17	W57	5105	08	13.2	7	SF		P					
	HOLL	17	1345	1350	1352	N16	W56	5105	08	13.3	7	SF	3	E		17			
0208	HOLL	17	1406	1407	1415	N26	W46	5106	08	14.0	9	SF C	1.2	3	E		23		F
0209		17	15391	15421	1552	S22	W43	5108	08	14.3	13	SF				28	0.5	EF	
	HOLL	17	1539	1542	1552	S21	W41	5108	08	14.5	13	SF	3	E		22		F	
	SVTO	17	1540E	1542U	1548	S23	W45	5108	08	14.2	8D	SF	2	E		22		F	
	HTPR	17	1540	1543	1555	S21	W42	5108	08	14.4	15	SN		C	1543	40	0.5	E	
0210	HOLL	17	1745	1748	1801	N26	W48	5106	08	14.0	16	SF	3	E		17			
0211	HOLL	17	2016	2017	2038	N25	W50	5106	08	14.0	22	SF	4	E		42		F	
		17	2039		2051	No Flare Patrol													
0212	PALE	17	2100	2100	2113	S24	E33	5114	08	20.4	13	SF	3	E		11			
		17	2103		2110	No Flare Patrol													
0213	LEAR	18	0110	0113	0123	N27	W53	5106	08	13.9	13	SF	3	E		19			

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Area Measurement			Remarks	
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0232		23 0820*	0848*	1200	N16	E31	5122	08 25.7	220	2N	C	7.2			461	7.8	CEFILST	
	HTPR	23 0820	0935	1330	N17	E31	5122	08 25.7	310	1N			C	0935	450	4.9	IS	
	CATA	23 0833	0914	1010D	N17	E31	5122	08 25.7	97D	3B			2	P	0914	1124	13.6	T
	KAND	23 0836	0901	1030	N17	E32	5122	08 25.8	114	2B			P	0901	27	6.5	CEFT	
	LEAR	23 0840	0856	0953D	N17	E31	5122	08 25.7	73D	1F	C	7.2	3	E	156		S	
	KHAR	23 0841	0848	0940D	N14	E30	5122	08 25.6	59D	2F			2	P	0846	550	6.3	EL
0233	HTPR	23 1000	1010	1029	N21	E90	5123	08 30.3	29	SN			C	1010	60			
0234	HTPR	23 1424		1435D	S29	E62		08 28.5	11D	SF			C	1426	70	1.4	E	
0235	RAMY	23 1757	1800	1831	N24	E88	5123A	08 30.5	34	SF	M	2.4	3	E		26		Y
		23 2109		2118	No Flare Patrol													
0236	VORO	23 2301	2311	2327	N18	W23	5127	08 22.2	26	SF			2	C	2311	170	1.9	EIT
0237		23 2325*	2345	2529	N20	W04	5117	08 23.7	124	SF						114	2.0	EFIT
	PALE	23 2325	2353U	2529	N20	W05	5117	08 23.6	124	SF			3	E		41		
	VORO	23 2338	2345	2358D	N20	W04	5117	08 23.7	20D	SF			2	C	2346	188	2.0	EFIT
0238	LEAR	24 0056	0103	0124	N18	W01	5117	08 24.0	28	SF			4	E		15		F
0239		24 03466	03496	0418	N20	W05	5117	08 23.8	32	SN						187	4.9	EF
	LEAR	24 0346	0349	0403	N19	W04	5117	08 23.8	17	SF			4	E		46		F
	TACH	24 0346	0351U	0440	N22	W06	5117	08 23.7	54	1B			C	0351	464	4.9	E	
	PALE	24 0352	0355	0411	N20	W06	5117	08 23.7	19	SF			3	E		51		F
0240	ABST	24 0746	0748	0757	S21	E90	5126	08 31.2	11	1F			C	0748	87		ACE	
0241		24 0851	0905	0930	N20	W04	5117	08 24.1	39	SN	C	2.0			127	1.5	EI	
	LEAR	24 0851	0905	0935	N21	W07	5117	08 23.8	44	SF	C	2.0	3	E		80		
	HTPR	24 0852E		0853D	N20	W04	5117	08 24.1	1D	SN			C	0853	150	1.5	EI	
	KANZ	24 0859E	0859U	0924	N19	W02	5117	08 24.2	25D	SF			C					E
	HTPR	24 0909E		0941D	N20	W04	5117	08 24.1	32D	SN			C	0909	150	1.5	EI	
0242	HTPR	24 0852E		0853D	S18	W85		08 17.9	1D	SB			C	0853	80		A	
0243	LEAR	24 0853	0853	0858	S29	W70		08 18.9	5	SF			3	E		12		F
		24 1308		1312	No Flare Patrol													
0244		24 1824	18251	1834	N22	W14	5117	08 23.7	10	SF						17		
	PALE	24 1824	1825	1833	N23	W13	5117	08 23.8	9	SF			3	E		14		
	HOLL	24 1824	1826	1836	N21	W15	5117	08 23.6	12	SF			4	E		20		
0245	HOLL	24 1845	1845	1858	N21	W14	5117	08 23.7	13	SF			4	E		13		
		24 2104		2119	No Flare Patrol													
0246	PALE	24 2124	2125	2129	N20	W17	5117	08 23.6	5	SF			3	E		23		F
		24 2130		2145	No Flare Patrol													
0247	PALE	24 2147	2147	2203	N20	W17	5117	08 23.6	16	SF	C	2.7	3	E		21		F
		24 2226		2230	No Flare Patrol													
0248		24 23103	2314	2326	N20	W19	5117	08 23.5	16	SF	C	3.8				108	1.8	EFHIJKT
	VORO	24 2310	2314	2322	N19	W21	5117	08 23.4	12	SF			2	C	2314	161	1.8	EIJKT
	PALE	24 2313	2314	2331	N20	W17	5117	08 23.7	18	SF	C	3.8	3	E		54		FH
0249	PALE	24 2337	2337		N24	W27	5127	08 22.9		SF			3	E		13		
0250		24 23447	23563	2420	N20	W17	5117	08 23.7	36	SF						57		FH
	LEAR	24 2344	2356	2423	N20	W17	5117	08 23.7	39	SF			3	E		56		F
	PALE	24 2351	2359	2418	N20	W17	5117	08 23.7	27	SF			3	E		58		FH
0251	LEAR	25 0033	0037	0116	N21	W16	5117	08 23.8	43	SF			3	E		40		F

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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
0252	LEAR	25 0213	0217	0224	S22	E72	5126	08	30.6	11	SF		3	E		30		
0253		25 0519*	0531*	0600	N20	W21	5117	08	23.6	41	SF					83	1.2	ET
	ABST	25 0519	0531	0600	N20	W21	5117	08	23.6	41	SF			C	0531	105	1.2	ET
	SVTO	25 0540	0623	0623D	N19	W21	5117	08	23.6	43D	SF		1	E		61		
0254		25 0917E		1115D	N20	W22	5117	08	23.7	118D	SF					55	0.6	EIT
	HTPR	25 0917E		0935D	N20	W22	5117	08	23.7	18D	SF			C	0931	50	0.5	EIT
	HTPR	25 0940E		1115D	N20	W22	5117	08	23.7	95D	SF			C	0954	60	0.6	E
0255	HTPR	25 0917E		0948D	N22	E90	5128	09	1.3	31D	SN			C	0929	20		A
0256	HTPR	25 1200		1223D	N15	E13	5121	08	26.5	23D	SF			C	1207	120	1.2	EK
		25 1224		1304	No Flare Patrol													
0257	LVOV	25 1309E	1318U	1346D	N20	W26	5117	08	23.5	37D	1F			C	1318	200	2.3	BD
0258	HOLL	25 1932	1932	1940	N20	W28	5117	08	23.7	8	SF		3	E		18		F
0259	LEAR	26 0046	0048	0056	N20	W30	5117	08	23.7	10	SF	C 1.4	3	E		31		
0260	LEAR	26 0140	0147	0200	S23	E70	5126	08	31.5	20	SF	C 1.3	3	E		17		
0261	ABST	26 0447	0450	0454D	S13	E90	5129	09	2.0	7D	1N			P	0450	87		ACD
0262		26 0608*	0612*	0737	N19	E71	5128	08	31.7	89	SN					56		DKT
	ABST	26 0608	0612	0759	N19	E74	5128	08	31.9	111	1N			C	0612	87		DKT
	CATA	26 0720	0720	0725	N18	E70	5128	08	31.6	5	SN		2	C	0720	56		
	LEAR	26 0720	0722	0727	N19	E69	5128	08	31.6	7	SF		3	E		26		
0263	CATA	26 1120	1120	1125	S18	E90	5131	09	2.3	5	1F		2	C	1120	84		
0264		26 14192	1423	1432	N22	W48	5127	08	22.9	13	SF					36		
	KANZ	26 1419	1423	1431	N23	W48	5127	08	22.9	12	SF			P				
	RAMY	26 1421	1423	1429	N23	W48	5127	08	22.9	8	SF		3	E		14		
	SVTO	26 1427E	1427U	1436	N20	W49	5127	08	22.8	9D	SF		2	E		57		
0265		26 14481	14494	1500	N19	W38	5117	08	23.7	12	SF					20		
	RAMY	26 1448	1449	1500	N20	W37	5117	08	23.8	12	SF		3	E		25		
	SVTO	26 1449	1453	1500	N18	W39	5117	08	23.6	11	SF		3	E		14		
		26 2116		2125	No Flare Patrol													
		26 2138		2142	No Flare Patrol													
0266	HOLL	26 2150	2151	2205D	N21	W53	5127	08	22.8	15D	SF		2	E		24		
0267	HOLL	26 2213	2214	2220	N16	E26	5130	08	28.9	7	SF		3	E		20		
0268		27 04382	0444	0458	N14	W10	5122	08	26.4	20	SN					102	1.8	F
	ABST	27 0438	0444	0502	N14	W11	5122	08	26.4	24	SN			C	0444	175	1.8	F
	LEAR	27 0440	0444	0454	N14	W09	5122	08	26.5	14	SF		3	E		29		
0269	ABST	27 0522	0531	0656	N13	E21	5130	08	28.8	94	SF			C	0531	131	1.5	EKT
0270	LEAR	27 0617	0618	0628	N21	W56	5127	08	23.0	11	SF		3	E		14		
0271		27 0719*	07324	0742	N14	E20	5130	08	28.8	23	SF	C 1.5				52	1.4	EKT
	ABST	27 0719	0736	0835D	N13	E20	5130	08	28.8	76D	SN			P	0736	131	1.4	EKT
	LEAR	27 0732	0732	0741	N14	E20	5130	08	28.8	9	SF	C 1.5	3	E		13		
	SVTO	27 0732E	0732U	0742	N14	E21	5130	08	28.9	10D	SF	C 1.5	2	E		13		
0272		27 0800	0827*	0852	N15	E19	5130	08	28.8	52	SF	C 3.1				32	0.7	
	SVTO	27 0800	0827	0844	N15	E19	5130	08	28.8	44	SF		2	E		13		
	LEAR	27 0800	0840	0901	N14	E20	5130	08	28.8	61	SF	C 3.1	3	E		20		
	YUNN	27 0905E	0906U	0906D	N16	E19	5130	08	28.8	1D	SN			P	0906	64	0.7	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Area Measurement			Remarks	
												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0273		27	08082	08146	0850	N19 W48	5117	08 23.7	42	SF			91	3.0	EF	
	LEAR	27	0808	0814	0850	N19 W46	5117	08 23.8	42	SF	3	E	38			
	SVTO	27	0809	0820	0851	N19 W48	5117	08 23.7	42	SF	3	E	43		F	
	ABST	27	0810	0819	0836D	N20 W49	5117	08 23.6	26D	1N		P	0819	192	3.0	E
0274	CATA	27	0816E	0820	0910	N12 W49	5115	08 23.6	54D	2N	2	P	0820	337	5.2	
0275		27	0838	08411	0908	S22 E52	5126	08 31.3	30	SF			48		E	
	SVTO	27	0838	0841	0909	S21 E53	5126	08 31.4	31	SF	3	E	51		E	
	LEAR	27	0838	0842	0907	S23 E52	5126	08 31.4	29	SF	3	E	44			
0276	SVTO	27	1039	1043	1046	N22 E58	5128	08 31.9	7	SF	3	E	14			
0277	RAMY	27	1128E	1128U	1201D	N20 E57	5128	08 31.8	33D	SF	2	E	13			
0278	RAMY	27	1205	1206	1229	S19 E76	5131	09 2.3	24	SF C 4.0	3	E	53		F	
0279	SVTO	27	1415	1423	1436	N22 E56	5128	08 31.9	21	SF	3	E	11			
0280		27	14224	14233	1444	N20 W44	5117	08 24.2	22	SF			20		F	
	RAMY	27	1422	1423	1440	N19 W45	5117	08 24.2	18	SF	4	E	17		F	
	HOLL	27	1426	1426	1449	N20 W44	5117	08 24.2	23	SF	3	E	22		F	
0281	RAMY	27	1759	1805	1812	N20 W61	5127	08 23.1	13	SF	4	E	11			
0282		27	20371	2039	2046	N14 W41	5115	08 24.8	9	SF			14			
	PALE	27	2037	2039	2047	N14 W42	5115	08 24.7	10	SF	3	E	15			
	HOLL	27	2038	2039	2046	N15 W40	5115	08 24.8	8	SF	3	E	14			
0283	PALE	27	2037	2044	2053	N15 E12	5130	08 28.8	16	SF	3	E	17			
0284		28	01431	01451	0149	N14 E10	5130	08 28.8	6	SF			79	1.6	D	
	PEKG	28	0143	0145	0148	N15 E10	5130	08 28.8	5	SF		C	0145	147	1.6	D
	LEAR	28	0144	0146	0150	N14 E10	5130	08 28.8	6	SF	3	E	11			
0285	TACH	28	0340	0341U	0350	S19 E69	5131	09 2.4	10	SB		C	0341	13	E	
0286		28	07288	07353	0751	S20 E71	5131	09 2.7	23	SF			71		D	
	KANZ	28	0728	0736	0758	S20 E69	5131	09 2.6	30	SF		P				
	LEAR	28	0730	0735	0756	S20 E71	5131	09 2.7	26	SF	3	E	58			
	PEKG	28	0736	0738	0740	S19 E74	5131	09 3.0	4	1F		C	0738	84	D	
0287	KANZ	28	1128	1131	1147	S23 E66	5131	09 2.6	19	SF		P				
0288		28	14065	14113	1422	S20 E68	5131	09 2.8	16	SF			10			
	KANZ	28	1406	1414	1422	S20 E67	5131	09 2.7	16	SF		P				
	RAMY	28	1411	1411	1421	S19 E68	5131	09 2.8	10	SF	3	E	10			
0289		28	1410	14102	1418	N15 W50	5115	08 24.8	8	SF C 1.0			12		H	
	KANZ	28	1410	1410	1418	N15 W50	5115	08 24.8	8	SF		P				
	RAMY	28	1410	1412	1417	N15 W50	5115	08 24.8	7	SF C 1.0	4	E	12		H	
0290		28	14412	14458	1457	N20 E42	5128	08 31.8	16	SF			20			
	KANZ	28	1441	1445	1457	N18 E42	5128	08 31.8	16	SF		P				
	RAMY	28	1441	1446	1500	N19 E43	5128	08 31.9	19	SF	3	E	29			
	SVTO	28	1443	1453	1454	N22 E42	5128	08 31.8	11	SF	3	E	12			
0291	RAMY	28	1746	1746	1754	S14 E60	5129	09 2.3	8	SF	3	E	12			
		28	1823		1916	No Flare Patrol										
		28	1953		2049	No Flare Patrol										
		28	2120		2202	No Flare Patrol										
0292	PALE	28	2312	2315U	2338	S15 E60	5129	09 2.5	26	SN C 2.6	3	E	58			
0293		28	23312	23355	2351	N20 E36	5128	08 31.7	20	SN C 2.4			88	1.7	EFH	
	PEKG	28	2331	2335	2340	N18 E36	5128	08 31.7	9	SB C 2.4		C	2334	134	1.7	E
	PALE	28	2333	2340	2402	N22 E37	5128	08 31.8	29	SF C 2.4	3	E	41		FH	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0294	29	06297	06402	0700	N21 E35 5128	08	31.9	31	SF							30		
	KANZ	29	0629	0640	0703	N21 E35 5128	08	31.9	34	SF				C				
	LEAR	29	0636	0642	0658	N21 E35 5128	08	31.9	22	SF			3	E		30		
0295	29	08082	08121	0826	S22 E48 5131	09	2.0	18	SN							10	0.4	D
	KANZ	29	0808	0812	0833	S21 E47 5131	09	1.9	25	SF				P				
	KAND	29	0810	0813	0820	S22 E49 5131	09	2.1	10	SN				P	0813	10	0.4	D
0296	SVTO	29	0848	0951	1031	S16 E57 5131	09	2.7	103	SN	C	5.3	3	E		76		
0297	29	1544	1550	1612	S18 E53 5131	09	2.7	28	1N	C	9.7					102		F
	SVTO	29	1544	1550	1609	S16 E54 5131	09	2.7	25	1N	C	9.7	3	E		103		F
	RAMY	29	1553E	1554U	1616	S19 E52 5131	09	2.6	23D	1N	C	9.7	2	E		101		F
		29	1621		1640	No Flare Patrol												
		29	1739		1800	No Flare Patrol												
0298	PALE	29	1801E	1801	1810	S20 E50 5131	09	2.6	9D	SF			3	E		30		
0299	PALE	29	1821	1825	1846D	S18 E52 5131	09	2.7	25D	1N	C	2.4	3	E		106		F
		29	1834		1843	No Flare Patrol												
		29	1951		2129	No Flare Patrol												
0300	30	01552	0155*	0216	S21 E49 5131	09	2.8	21	SF							94	1.8	E
	LEAR	30	0155	0155	0201	S21 E48 5131	09	2.7	6	SF			3	E		11		
	PEKG	30	0157	0209	0230	S21 E50 5131	09	2.9	33	SF				C	0209	176	1.8	E
0301	PEKG	30	0201	0205	0213	S20 W80 5120	08	24.0	12	SF				C	0205	34		E
0302	PEKG	30	0210	0213	0237	N26 W11 5123A	08	29.2	27	SN				C	0213	168	1.8	E
0303	30	0411*	0415*	0421	S19 E46 5131	09	2.7	10	SN							69	1.4	DE
	LEAR	30	0411	0415	0421	S20 E45 5131	09	2.6	10	SF			3	E		44		
	TACH	30	0414	0415U	0424D	S19 E43 5131	09	2.4	10D	SB				C	0415	75	1.2	E
	ABST	30	0428	0428	0430D	S17 E50 5131	09	3.0	2D	SF				C	0428	87	1.5	D
0304	LEAR	30	0702	0705	0718	S21 E43 5131	09	2.6	16	SF	C	1.8	3	E		35		
0305	LEAR	30	0812	0814	0825	S21 E43 5131	09	2.6	13	SF			3	E		18		
		30	1021		1023	No Flare Patrol												
0306	30	11193	1119	1134	S20 W79 5120	08	24.4	15	1N							66		
	CATA	30	1119	1119	1134	S17 W76 5120	08	24.7	15	1N			2	C	1119	84		
	SVTO	30	1122	1125U	1157D	S22 W82 5120	08	24.2	35D	SF			3	E		47		
		30	1141		1156	No Flare Patrol												
		30	1200		1249	No Flare Patrol												
0307	30	1341*	1354*	1415	S21 E43 5131	09	2.9	34	SF	C	9.7					87		EF
	SVTO	30	1341	1354	1420	S21 E44 5131	09	2.9	39	1F	C	9.7	3	E		131		F
	RAMY	30	1346	1409	1418	S21 E42 5131	09	2.8	32	SF	C	9.7	4	E		43		FE
	KANZ	30	1400E	1400U	1408	S24 E43 5131	09	2.9	8D	SF				C				
	KANZ	30	1408	1412U	1412D	S18 E43 5131	09	2.9	4D	SN				C				
0308	RAMY	30	1419	1421	1425	S19 W81 5120	08	24.4	6	SF			3	E		21		
0309	RAMY	30	1436	1436	1445	S21 E41 5131	09	2.7	9	SF			4	E		20		
0310	RAMY	30	1739	1742	1811	S21 E40 5131	09	2.8	32	SN	C	6.3	3	E		69		F
0311	RAMY	30	1800	1805	1820	N18 W78 5115	08	24.8	20	SF			3	E		25		
		30	1931		2044	No Flare Patrol												
		30	2050		2104	No Flare Patrol												
0312	HOLL	30	2148E	2149	2201	N13 W81 5115	08	24.8	13D	SF			2	E		14		

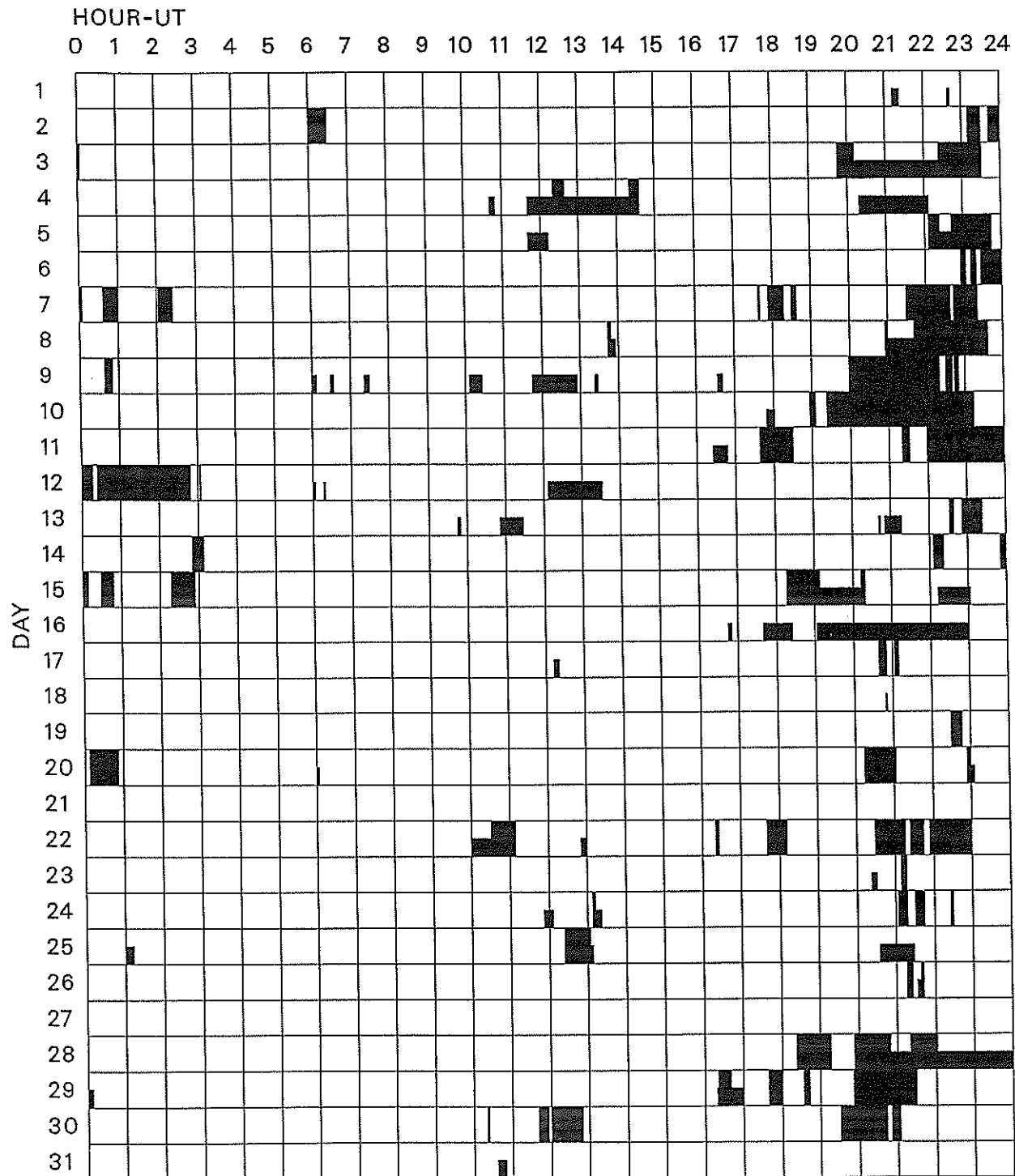
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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement			Remarks
												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0313	30	2338	2340	2402	N22 E12	5128	08 31.9	24	SF				26		F
	PALE 30	2338	2340	2353	N22 E10	5128	08 31.7	15	SF	3	E		26		F
	HOLL 30	2338	2341	2412	N23 E13	5128	09 1.0	34	SF	3	E		25		F
0314	LEAR 31	0119	0120	0128	S23 E36	5131	09 2.8	9	SF	3	E		13		
0315	TACH 31	0348	0349U	0354	N23 E13	5128	09 1.2	6	SB		C	0349	92	1.0	E
0316	LEAR 31	0403	0510	0524	N22 E06	5128	08 31.6	81	1F C 4.4	3	E		124		F
0317	31	0613*	0613*	0638	N22 E09	5128	08 31.9	25	SN C 2.1				47	0.9	DT
	LEAR 31	0613	0613	0619	N22 E09	5128	08 31.9	6	SF C 2.1	3	E		16		
	KANZ 31	0613E	0613U	0627	N22 E10	5128	09 1.0	14D	SF		C				
	KAND 31	0626E	0636	0700	N23 E09	5128	09 1.0	34D	SB		P	0636	42	0.9	DT
	CATA 31	0634E	0634	0640D	N23 E09	5128	09 1.0	6D	SB	2	P	0634	84	0.9	
0318	KAND 31	0635	0636	0640	S21 E22	5131	09 2.0	5	SN		P	0636	21	0.5	E
0319	31	0706	0710*	0733	S22 W04	5126	08 31.0	27	SN				56	0.7	
	KANZ 31	0706	0710	0733	S22 W04	5126	08 31.0	27	SF		P				
	CATA 31	0722E	0722	0727D	S23 W05	5126	08 30.9	5D	SN	2	P	0722	56	0.7	
0320	31	0814	0816	0833	N22 E07	5128	08 31.9	19	SF C 3.6				60	0.9	ETXY
	LEAR 31	0814	0817	0834	N22 E08	5128	08 31.9	20	SF C 3.6	3	E		83		
	KHAR 31	0815	0816	0829	N22 E08	5128	08 31.9	14	SF	2	V	0816			XY
	KAND 31	0815	0817	0828	N23 E08	5128	09 1.0	13	SB		P	0817	42	0.9	ET
	KANZ 31	0815	0819	0830	N21 E07	5128	08 31.9	15	SF		P				
SVTO 31	0817E	0819U	0843	N20 E04	5128	08 31.6	26D	SF C 3.6	2	E		54			
0321	KHAR 31	0932	0934	0942	S14 E24	5129	09 2.2	10	SF	2	V	0934			H
0322	KAND 31	0956	0957	1000	S20 E21	5131	09 2.0	4	SN		P	0957	21	0.5	EHT
0323	SVTO 31	1106	1121	1132	S20 E30	5131	09 2.7	26	SF	3	E		26		
0324	31	1118	1120	1124	N21 E10	5128	09 1.2	6	SN				18	0.4	DT
	RAMY 31	1118	1120	1122	N21 E09	5128	09 1.2	4	SF	3	E		15		
	KAND 31	1120	1120	1125	N21 E10	5128	09 1.2	5	SB		P	1120	21	0.4	DT
0325	RAMY 31	1230	1233	1240	N23 E10	5128	09 1.3	10	SF	3	E		16		
0326	31	1250	1254	1431	N20 E04	5128	08 31.8	101	SN C 1.8				44		U
	SVTO 31	1250	1254	1556	N20 E03	5128	08 31.8	186	SN C 1.8	3	E		65		
	RAMY 31	1253	1255	1306	N19 E05	5128	08 31.9	13	SF C 1.8	3	E		23		U
0327	31	1730	1733	1736	S20 W07	5126	08 31.2	6	SF				32		
	RAMY 31	1730	1733	1737	S20 W07	5126	08 31.2	7	SF	3	E		21		
	PALE 31	1730	1734	1736	S20 W07	5126	08 31.2	6	SF	3	E		44		
0328	PALE 31	1741	1743	1746	S19 W08	5126	08 31.1	5	SF	3	E		35		
0329	31	1805	1806	1819	S20 E24	5131	09 2.6	14	SF				22		
	HOLL 31	1805	1806	1822	S22 E26	5131	09 2.7	17	SF	3	E		21		
	PALE 31	1805	1810	1819	S19 E23	5131	09 2.5	14	SF	3	E		32		
	RAMY 31	1810	1810	1816	S19 E23	5131	09 2.5	6	SF	3	E		14		
0330	31	2015	2016	2020	S17 E26	5131	09 2.8	5	SF C 1.3				30		
	HOLL 31	2015E	2015U	2020	S17 E26	5131	09 2.8	5D	SF C 1.3	3	E		43		
	PALE 31	2015	2016	2020	S17 E27	5131	09 2.9	5	SF C 1.3	3	E		18		
0331	HOLL 31	2046	2049U	2142D	S15 E25	5131	09 2.7	56D	SF C 1.9	2	E		23		

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

AUGUST 1988



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
Bucharest
Catania

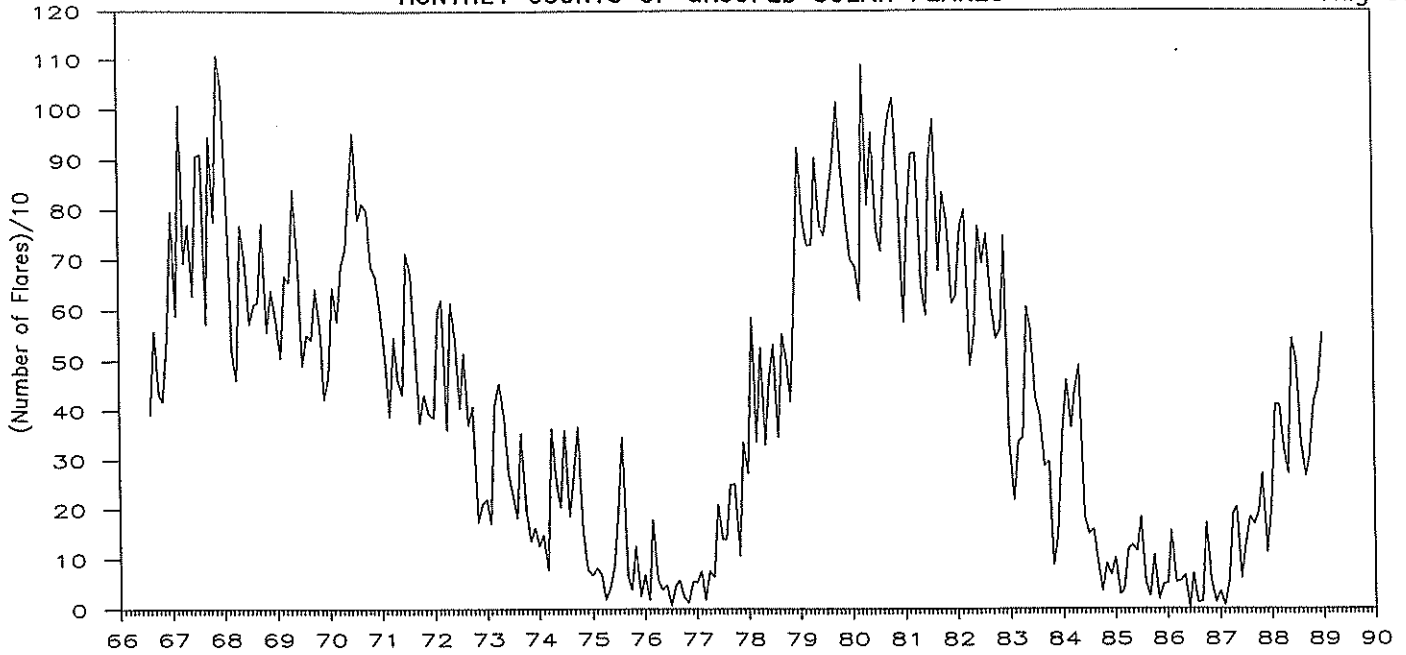
Haute Provence
Holloman
Kandilli

Kanzelhoehe
Kharkov
Learmonth
Lvov

Mitaka
Palehua
Peking
Ramey

San Vito
Tashkent
Voroshilov
Yunnan

MONTHLY COUNTS OF GROUPED SOLAR FLARES*



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1966								391	558	432	417	543	2341
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	171	198	273	114	1626
1988	209	412	412	328	272	544	499	331	267	308	415	447	4444
1989	555												555

*Flare counts are preliminary from July 1982 to present. In particular, the monthly totals for the last 6 months may change significantly, as more sites submit their reports. The term "grouped" means that observations of the same event by different stations have been lumped together and counted as one.

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Aug 88

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

AUGUST 1988

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
01	200	GORK	44 NS	0245.0E		555.0D		20.0		
	100	GORK	44 NS	0248.0E		552.0D		10.0		
	245	SVTO	43 NS	0404.0	1417.0	822.0D	170.0			QL=1 ST=2 TYP=1
	234	POTS	44 NS	0540.0E	0910.0	560.0D	77.0			
	260	ONDR	44 NS	0550.0E	0753.0	513.0D				
	204	IZMI	43 NS	0600.0		360.0	30.0			
	127	TORN	44 NS	0620.0E		560.0D		300.0D		V=1
	245	SGMR	44 NS	0958.0E	1258.0	203.0D	96.0			QL=1 ST=2 TYP=1
	245	PALE	44 NS	1623.0E	1748.0	751.0D	100.0			QL=1 ST=2 TYP=1
	245	PALE	44 NS	1640.0E	1748.0	734.0D	100.0			QL=1 ST=3 TYP=1
	100	HIRA	44 NS	2000.0E	0630.0	820.0D	210.0	87.0		
	200	HIRA	44 NS	2000.0E	2205.0	820.0D	47.0	28.0		MR
	245	LEAR	44 NS	2314.0E	0039.0	46.0D	100.0			QL=1 ST=1 TYP=1
	2950	GORK	23 GRF	0336.9	0620.8	503.0D	36.0			
	100	HIRA	46 C	0338.1	0338.9	2.0	940.0			
	200	HIRA	8 S	0338.3	0338.9	0.6	310.0			WR
	100	GORK	41 F	0338.5	0339.1	1.4	730.0			
	100	GORK	41 F	0338.5	0339.9		320.0			
	200	GORK	4 S/F	0338.7	0339.0	0.8	200.0			
	9100	GORK	1 S	0338.8	0339.2	0.8	7.0	3.0		
	245	PALE	4 S/F	0339.0	0339.0		110.0			QL=1 ST=2 TYP=3
	2950	GORK	2 S/F	0402.5	0403.9	3.1	3.6			
	2950	GORK	2 S/F	0413.1	0414.6	3.0	3.9			
	3100	CRIM	23 GRF	0510.0	0621.0	190.0	24.0			
	9100	GORK	20 GRF	0518.0	0639.6	192.4	38.0			
	2840	PEKG	22 GRF	0529.0	0537.4	88.0	27.4			
	2950	GORK	22 GRF	0530.9	0537.3	10.3	38.0			
	3100	CRIM	1 S	0531.0	0537.0	11.0	16.0	5.0		
	950	GORK	46 C	0531.1	0539.5		7.0			
	950	GORK	46 C	0531.1	0532.5	14.0	27.0			
	650	GORK	46 C	0532.0	0537.4		19.0			
	650	GORK	46 C	0532.0	0533.5		5.6			
	650	GORK	46 C	0532.0	0532.5	19.6	5.6			
	650	GORK	46 C	0613.0	0614.2		3.4			
	650	GORK	46 C	0613.0	0613.3	3.5	3.9			
	950	GORK	2 S/F	0614.4	0614.9	1.3	2.8			
	100	HIRA	42 SER	0618.5		8.6	1000.0D			
	100	GORK	41 F	0619.0	0624.1		320.0			
	100	GORK	41 F	0619.0	0625.2		180.0			
	100	GORK	41 F	0619.0	0619.8	7.8	3570.0			
	3100	CRIM	3 S	1036.0	1039.5	16.0	41.2	13.0		
	3100	CRIM	42 SER	1046.9	1051.0		12.6			
	3100	CRIM	42 SER	1046.9	1047.5	6.0	26.3	8.0		
	536	ONDR	8 S	1108.6	1108.7	0.3	102.0			
	33	UPIC	42 SER	1115.0		325.5				
	100	GORK	41 F	1125.7	1126.0	6.3	190.0			
	100	GORK	41 F	1125.7	1131.1		140.0			
	100	GORK	41 F	1125.7	1127.3		330.0			
	100	GORK	41 F	1125.7	1129.9		180.0			
	3100	CRIM	1 S	1204.0	1206.0	4.0	8.0	3.0		
3000	POTS	3 S	1204.0	1206.0	5.2	10.0				
9500	POTS	1 S	1204.6	1205.6	13.0	10.0				
1470	POTS	1 S	1205.0	1206.2	6.5	4.0				
810	KRAK	8 S	1354.3	1354.7	0.5	7.0				
430	KRAK	8 S	1354.3	1354.7	0.5	6.0				
2800	OTTA	3 S	1427.2	1427.9	4.3	16.2	6.0			
410	SVTO	49 GB	1605.0E	1605.0	1.0D	760.0			QL=1 ST=2 TYP=6	
410	SGMR	49 GB	1605.0E	1605.0	475.0D	1700.0			QL=1 ST=3 TYP=6	
2800	OTTA	32 ABS	1700.0	1720.0	40.0	4.0	2.0			
245	PALE	4 S/F	1708.0	1708.0		260.0			QL=1 ST=2 TYP=3	
245	SVTO	4 S/F	1708.0	1708.0		270.0			QL=1 ST=2 TYP=3	
2800	OTTA	4 S/F	1720.6	1723.1	6.6	112.2	33.0			
2800	OTTA	40 F	1727.2	1727.7	12.0					
245	PALE	8 S	1856.0	1856.0	1.0	220.0			QL=1 ST=2 TYP=3	
245	SGMR	8 S	1856.0	1856.0	1.0	240.0			QL=1 ST=2 TYP=3	
02	200	GORK	44 NS	0247.0E		553.0D		10.0		
	100	GORK	44 NS	0248.0E		552.0D		10.0		
	245	SVTO	43 NS	0408.0	0920.0	813.0D	140.0			QL=1 ST=3 TYP=1

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

23
Aug 88

AUGUST 1988

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
02	204	IZMI	43 NS	0600.0		360.0	40.0			
	234	POTS	44 NS	0600.0E	1349.0	536.0D				
	260	ONDR	44 NS	0600.0E	1249.6	500.0D	60.0			
	127	TORN	44 NS	0620.0E		560.0D		300.0D		V=1
	245	SGMR	44 NS	0959.0E	1052.0	194.0D	38.0			QL=1 ST=2 TYP=1
	245	SGMR	44 NS	1516.0E	1733.0	504.0D	500.0			QL=1 ST=2 TYP=1
	245	PALE	44 NS	1640.0E	1902.0	734.0D	210.0			QL=1 ST=3 TYP=1
	200	HIRA	44 NS	2000.0E	2100.0	820.0D	75.0	43.0		MR
	100	HIRA	44 NS	2000.0E	2317.0	820.0D	260.0	140.0		
	245	LEAR	44 NS	2313.0E	0022.0	633.0D	130.0			QL=1 ST=2 TYP=1
	200	HIRA	46 C		2205.3		450.0			ML
	3100	CRIM	1 S	0356.5	0357.5	3.0	8.5	3.0		
	2950	GORK	23 GRF	0541.0	0818.0	381.0D	9.0			
	100	GORK	8 S	0545.3	0545.4	0.5	2400.0			
	200	GORK	8 S	0545.4	0545.5	0.6	4200.0			
	2950	GORK	1 S	0802.4	0802.6	1.3	5.6			
	950	GORK	2 S/F	0838.0	0838.2	1.6	4.5			
	1470	POTS	1 S	0937.0	0937.3	3.0	4.0			
	3000	POTS	1 S	0937.0	0938.4	3.0	3.0			
	9500	POTS	1 S	0937.3	0938.5	2.7	10.0			
	5900	KISV	2 S/F	0937.6	0938.4	2.5	6.0			
	9100	GORK	1 S	0937.6	0938.5	2.2	6.3			
	2950	GORK	2 S/F	0937.6	0937.8	2.4	2.4			
	950	GORK	2 S/F	0937.7	0938.1	2.3	5.6			
	650	GORK	45 C	0937.7	0937.8	1.4	6.0			
	650	GORK	45 C	0937.7	0938.8		5.0			
	5900	KISV	1 S	1016.1	1017.2	2.5	4.0			
	2950	GORK	1 S	1020.2	1020.4	0.6	2.4			
	5900	KISV	1 S	1020.2	1020.5	2.5	6.0			
	100	GORK	41 F	1153.5	1154.0	3.0	135.0			
	100	GORK	41 F	1153.5	1154.5		580.0			
	5900	KISV	2 S/F	1248.3	1249.8	4.5	23.0			
	536	ONDR	45 C	1248.4	1249.1	3.9	46.0			
	1470	POTS	4 S/F	1248.5	1249.7	5.1	10.0			
	410	SGMR	4 S/F	1249.0	1249.0		390.0			QL=1 ST=2 TYP=3
	410	SVTO	8 S	1249.0	1249.0	1.0	290.0			QL=1 ST=2 TYP=3
	3100	CRIM	1 S	1249.1	1249.6	1.5	10.8	3.0		
	3000	POTS	4 S/F	1249.2	1249.7	6.8	14.0			
	9500	POTS	4 S/F	1249.2	1249.7	8.8	18.0			
	9300	KISV	2 S/F	1249.3	1249.8	4.0	5.0			
	33	UPIC	45 C	1337.6	1337.9	1.2				
	1470	POTS	3 S	1425.6	1428.0	7.9	19.0			
	3000	POTS	3 S	1425.7	1427.8	4.8	20.0			
	410	SGMR	8 S	1426.0	1427.0	2.0	160.0			QL=1 ST=2 TYP=3
	9500	POTS	3 S	1426.8	1427.8	4.7	13.0			
	610	SGMR	8 S	1427.0	1427.0	1.0	270.0			QL=1 ST=2 TYP=3
	610	SVTO	4 S/F	1720.0	1721.0	5.0	180.0			QL=1 ST=2 TYP=3
	610	PALE	4 S/F	1721.0	1721.0	4.0	290.0			QL=1 ST=2 TYP=3
	1415	PALE	8 S	1721.0	1722.0	2.0	230.0			QL=1 ST=2 TYP=3
	410	PALE	49 GB	1721.0E	1722.0	4.0D	3100.0			QL=1 ST=2 TYP=6
	245	PALE	49 GB	1721.0E	1721.0	4.0D	2400.0			QL=1 ST=2 TYP=6
	245	SGMR	49 GB	1721.0E	1721.0	4.0D	3400.0			QL=1 ST=2 TYP=6
	410	SGMR	49 GB	1721.0E	1722.0	4.0D	3900.0			QL=1 ST=2 TYP=6
	610	SGMR	4 S/F	1721.0	1721.0	4.0	290.0			QL=1 ST=2 TYP=3
	1415	SGMR	8 S	1721.0	1722.0	2.0	240.0			QL=1 ST=2 TYP=3
245	SVTO	49 GB	1721.0E	1721.0	1.0D	2000.0			QL=1 ST=3 TYP=6	
410	SVTO	49 GB	1721.0E	1722.0	4.0D	2900.0			QL=1 ST=2 TYP=6	
1415	SVTO	8 S	1721.0	1722.0	2.0	280.0			QL=1 ST=2 TYP=3	
33	UPIC	45 C	1721.3	1721.5	2.0					
2695	PALE	8 S	1722.0	1723.0	1.0	110.0			QL=1 ST=2 TYP=3	
2695	SVTO	8 S	1722.0	1723.0	2.0	130.0			QL=1 ST=2 TYP=3	
4995	SVTO	8 S	1722.0	1722.0	1.0	64.0			QL=1 ST=2 TYP=3	
33	UPIC	45 C	1727.2	1727.7	1.3					
610	PALE	4 S/F	1729.0	1731.0	4.0	320.0			QL=1 ST=2 TYP=3	
610	SGMR	4 S/F	1729.0	1732.0	3.0	310.0			QL=1 ST=2 TYP=3	
245	PALE	4 S/F	1733.0	1733.0	5.0	380.0			QL=1 ST=2 TYP=3	
245	SVTO	8 S	1733.0	1733.0	1.0	250.0			QL=1 ST=2 TYP=3	
200	HIRA	42 SER	2123.8	2124.9	1.5	190.0			O	
500	HIRA	46 C	2202.5	2204.3	13.0	265.0	40.0		MR	

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Aug 88

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

AUGUST 1988

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
02	100 HIRA	46 C	2202.6		4.8	1000.0D	230.0D		
	200 HIRA	46 C	2202.6	2207.9	6.7	1130.0	74.0		0
	245 PALE	8 S	2203.0	2205.0	2.0	270.0			QL=1 ST=2 TYP=3
	410 PALE	4 S/F	2204.0	2204.0		290.0			QL=1 ST=2 TYP=3
	610 SGMR	4 S/F	2204.0	2204.0		160.0			QL=1 ST=3 TYP=3
	410 SGMR	49 GB	2204.0E	2208.0	4.0D	920.0			QL=1 ST=3 TYP=6
	245 SGMR	4 S/F	2205.0	2205.0	4.0	380.0			QL=1 ST=3 TYP=3
	410 PALE	49 GB	2207.0E	2208.0	1.0D	800.0			QL=1 ST=3 TYP=6
	245 PALE	8 S	2208.0	2208.0	2.0	91.0			QL=1 ST=2 TYP=3
03	100 GORK	44 NS	0248.0E		555.0D		20.0		
	200 GORK	44 NS	0248.0E		555.0D		5.0		
	245 SVTO	43 NS	0409.0	0536.0	811.0D	81.0			QL=1 ST=2 TYP=1
	204 IZMI	43 NS	0600.0		360.0	5.0			
	260 ONDR	44 NS	0610.0E	0710.0	487.0D	25.0U			
	127 TORN	44 NS	0620.0E		560.0D		83.0		V=1
	245 PALE	44 NS	1715.0E	1724.0	698.0D	32.0			QL=1 ST=2 TYP=1
	200 HIRA	44 NS	2000.0E	0725.0	820.0D	22.0	9.0		MR
	100 HIRA	44 NS	2000.0E	2136.0	820.0D	180.0	105.0		
	245 LEAR	4 S/F	0030.0	0036.0	8.0	100.0			QL=1 ST=2 TYP=3
	610 LEAR	4 S/F	0031.0	0036.0	7.0D	42.0			QL=1 ST=2 TYP=3
	410 LEAR	4 S/F	0031.0	0036.0	6.0	17.0			QL=1 ST=2 TYP=3
	2950 GORK	23 GRF	0455.2	0542.2	143.0	5.3			
	5900 KISV	45 C	0555.9	0600.6	12.0	9.0			
	9300 KISV	2 S/F	0559.3	0600.7	6.0	5.0			
	650 GORK	4 S/F	0559.5	0600.5	7.0	7.0			
	950 GORK	2 S/F	0600.0	0604.2	5.4	4.0			
	3100 CRIM	1 S	0600.0	0600.5	1.0	4.0	1.0		
	2950 GORK	1 S	0600.0	0600.6	0.9	5.9			
	9300 KISV	2 S/F	0627.6	0630.2	5.5	6.0			
	5900 KISV	45 C	0629.1	0634.4	26.0	8.0			
	3100 CRIM	20 GRF	0633.5	0634.5	46.0	2.6	1.0		
	5900 KISV	2 S/F	0725.1	0726.3	3.5	4.0			
	9300 KISV	2 S/F	0725.4	0726.3	4.5	5.0			
	2950 GORK	23 GRF	0800.0	1036.7	240.0D	15.0			
	5900 KISV	23 GRF	0826.6	0840.0		13.0			
	5900 KISV	23 GRF	0826.6	0830.7	81.0	24.0			
	650 GORK	22 GRF	0827.0	0829.5	13.6	6.6			
	9300 KISV	23 GRF	0827.1	0845.2		11.0			
	9300 KISV	23 GRF	0827.1	0830.7	69.5	10.0			
	3100 CRIM	29 PB1	0829.0	0832.0	28.0	3.0	1.0		
	3100 CRIM	1 S	0829.0	0830.4	3.0	11.0	4.0		
	950 GORK	3 S	0829.0	0830.9	5.0	6.0	3.0		
	3000 POTS	4 S/F	0829.2	0830.6	2.4D	12.0			
	1470 POTS	4 S/F	0829.2	0830.6	2.2D	8.0			
	2950 GORK	2 S/F	0829.4	0830.5	2.9	14.0			
	430 KRAK	41 F	0829.5	0833.0	15.0	13.0	3.0		
	9500 POTS	1 S	0829.5	0830.6	1.7D	7.0			
	3013 IZMI	5 S	0830.0	0830.6	2.0	13.0	7.0		
	810 KRAK	8 S	0831.0	0831.0	0.1	6.0			
	9100 GORK	21 GRF	0954.1	1033.1	126.0D	24.0			
	3100 CRIM	21 GRF	1004.0	1031.0	133.0	10.0	3.0		
9300 KISV	46 C	1005.2	1015.0		17.0				
9300 KISV	46 C	1005.2	1029.1		28.0				
9300 KISV	46 C	1005.2	1008.6	143.0	79.0				
5900 KISV	46 C	1005.7	1015.0		21.0				
5900 KISV	46 C	1005.7	1029.5		36.0				
5900 KISV	46 C	1005.7	1008.6	136.0	56.0D				
9500 POTS	4 S/F	1005.8	1008.4	5.8	69.0				
9100 GORK	4 S/F	1006.0	1008.4	4.2	74.0				
3000 POTS	4 S/F	1006.2	1008.4	5.2	13.0				
8800 SVTO	8 S	1007.0	1008.0	1.0	75.0			QL=1 ST=2 TYP=3	
3100 CRIM	1 S	1007.0	1008.4	3.0	7.8	3.0			
2950 GORK	2 S/F	1007.2	1008.6	2.8	9.2				
15000 KISV	2 S/F	1007.4	1008.5	2.5	19.0				
15400 SVTO	8 S	1008.0	1008.0	2.0	65.0			QL=1 ST=2 TYP=3	
536 ONDR	45 C	1026.8	1242.0	135.2					
3100 CRIM	1 S	1027.0	1029.8	4.0	7.8	3.0			
9100 GORK	2 S/F	1027.5	1028.9	2.7	16.5				

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
03	2950 GORK	2 S/F	1027.7	1029.4	3.6	8.4			
	100 GORK	4 S/F	1148.5	1149.2	1.1	280.0			
04	100 GORK	44 NS	0249.0E		557.0D		15.0		
	200 GORK	44 NS	0250.0E		556.0D		5.0		
	204 IZMI	43 NS	0600.0		360.0	10.0			
	260 ONDR	44 NS	0600.0E	0818.7	480.0D	51.0			
	127 TORN	44 NS	0620.0E		560.0D		250.0D		V=1
	245 SGMR	43 NS	1001.0	1919.0	817.0D	55.0			QL=1 ST=2 TYP=1
	200 HIRA	44 NS	2000.0E	0808.0	820.0D	13.0	6.0		WR
	100 HIRA	44 NS	2000.0E	2135.0	820.0D	160.0	85.0		
	2950 GORK	20 GRF	0522.4	0524.0	6.9	2.4			
	9100 GORK	2 S/F	0551.2	0551.9	1.0	15.0			
	5900 KISV	29 PBI	0709.1	0712.1	10.0	9.0			
	5900 KISV	4 S/F	0709.1	0710.6	3.0	42.0			
	9500 POTS	4 S/F	0709.3	0710.6	3.7	39.0			
	9100 GORK	45 C	0709.7	0711.0		32.0			
	9100 GORK	29 PBI	0709.7	0711.3	31.8	15.0			
	9100 GORK	45 C	0709.7	0710.5	1.6	48.0			
	9300 KISV	4 S/F	0709.7	0710.6	8.0	50.0			
	8800 LEAR	8 S	0710.0	0711.0	2.0	52.0			QL=1 ST=2 TYP=3
	8800 SVTO	8 S	0710.0	0710.0	1.0	60.0			QL=1 ST=2 TYP=3
	9500 POTS	1 S	0732.6	0733.4	1.0	9.0			
	950 GORK	4 S/F	0804.9	0805.1	0.5	74.0			
	3100 CRIM	45 C	0944.5	0958.0		7.6			
	2950 GORK	22 GRF	0944.5	0957.0	21.0	9.4			
3100 CRIM	45 C	0944.5	0948.0	60.0	4.2	2.5			
3100 CRIM	45 C	0944.5	1033.5		3.3				
9100 GORK	1 S	0947.2	0948.1	2.0	16.0				
9500 POTS	3 S	0947.8	0948.1	0.7	12.0				
2950 GORK	20 GRF	1018.4	1030.8	26.0	4.3				
650 GORK	2 S/F	1034.3	1034.8	1.0	5.4				
536 ONDR	42 SER	1127.5	1223.3	115.1	68.0				
05	200 GORK	44 NS	0250.0E		551.0D		5.0		
	100 GORK	44 NS	0250.0E		550.0D		10.0		
	245 LEAR	44 NS	0546.0E	0547.0	241.0D	41.0			QL=1 ST=2 TYP=1
	204 IZMI	43 NS	0600.0		360.0	10.0			
	260 ONDR	44 NS	0600.0E	0825.7	473.0D	169.0			
	127 TORN	44 NS	0620.0E		560.0D		41.0		V=1
	33 UPIC	43 NS	0946.5		493.5D				
	3100 CRIM	20 GRF	0601.0	0741.0	179.0	5.8	2.0		
	5900 KISV	2 S/F	0601.7	0604.2	8.0	11.0			
	204 IZMI	5 S	0608.0	0608.2	0.2	7200.0	7100.0		
	9100 GORK	20 GRF	0734.4	0740.8	45.0	6.0			
2950 GORK	20 GRF	0737.6	0741.0	25.0	6.9				
5900 KISV	2 S/F	0932.2	0932.8	2.0	10.0				
06	200 GORK	44 NS	0243.0E		412.0D		5.0		
	100 GORK	44 NS	0244.0E		406.0D		5.0		
	127 TORN	44 NS	0620.0E		560.0D		9.0		V=1
	245 SGMR	44 NS	1003.0E	1304.0	772.0D	79.0			QL=1 ST=3 TYP=1
	200 HIRA	43 NS	2230.0	0325.0	660.0D	6.0	3.0		WR
	9100 GORK	20 GRF	0339.9	0413.0	111.0	6.8			
	2950 GORK	21 GRF	0406.3	0420.5	111.0	5.9			
	100 HIRA	42 SER	0510.6		15.8	1000.0D			
	200 HIRA	42 SER	0511.2	0521.1	15.8	1100.0			WL
	200 GORK	41 F	0511.3	0517.0	15.7	8.0			
	200 GORK	41 F	0511.3	0524.5		30.0D			
	200 GORK	41 F	0511.3	0521.5		2200.0			
	3100 CRIM	21 GRF	0514.5	0520.0	36.0	2.0	0.5		
	650 GORK	23 GRF	0518.4	0526.6	14.5	2.0			
	2950 GORK	2 S/F	0519.6	0521.0	2.7	5.6			
	950 GORK	1 S	0519.8	0521.3	2.4	1.3	0.6		
3100 CRIM	1 S	0520.0	0521.0	2.5	4.0	1.0			
245 SVTO	8 S	0520.0	0520.0	1.0	250.0			QL=1 ST=2 TYP=3	
100 GORK	41 F	0520.3	0524.5		450.0				
100 GORK	41 F	0520.3	0521.5		1200.0				
100 GORK	41 F	0520.3	0520.6	5.0	1270.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
06	100	GORK	41 F	0520.3	0524.7		630.0			
	245	LEAR	8 S	0521.0	0521.0	1.0	250.0			QL=1 ST=2 TYP=3
	650	GORK	2 S/F	0521.0	0521.2	1.0	5.0			
	650	GORK	1 S	0523.3	0523.4	0.3	5.0			
	950	GORK	2 S/F	0524.0	0524.9	1.2	4.0			
	260	ONDR	42 SER	0640.0E	0842.6	440.0D	198.0			
	204	IZMI	5 S	0703.0	0703.2	0.8	80.0	70.0		
	950	GORK	46 C	0719.7	0722.4		3.5			
	950	GORK	46 C	0719.7	0721.5	3.0	5.0			
	3100	CRIM	20 GRF	0721.0	0730.0	41.0	4.0	1.5		
	2950	GORK	22 GRF	0721.0	0738.0	42.0	7.0			
	2950	GORK	21 GRF	0809.8	0817.7	16.7	6.0			
	3100	CRIM	1 S	0813.0	0814.8	7.0	10.0	3.0		
	5900	KISV	4 S/F	0813.1	0814.6	9.0	23.0			
	3000	POTS	29 PBI	0813.2	0814.5	13.0	12.0			
	2950	GORK	2 S/F	0813.4	0814.7	4.2	10.0			
	9100	GORK	2 S/F	0813.5	0814.5	4.5	13.5			
	9300	KISV	2 S/F	0813.5	0814.5	5.0	12.0			
	9500	POTS	29 PBI	0813.5	0814.5	12.0	13.0			
	3013	IZMI	5 S	0814.0	0815.0	5.0	8.0	4.0		
100	GORK	8 S	0828.1	0828.5	0.5	130.0				
1470	POTS	27 RF	0950.0	1006.0	140.0	5.0				
9500	POTS	27 RF	1000.0	1002.8	110.0	7.0				
3000	POTS	27 RF	1000.3	1058.0	104.0	7.0				
245	SGMR	49 GB	1257.0E	1257.0	837.0D	750.0			QL=1 ST=2 TYP=6	
33	UPIC	45 C	1354.3	1354.9	1.7					
07	200	GORK	44 NS	0248.0E		548.0D		5.0		
	204	IZMI	43 NS	0600.0		360.0	5.0			
	245	SGMR	44 NS	1004.0E	1402.0	776.0D	74.0			QL=1 ST=2 TYP=1
	200	HIRA	44 NS	2000.0E	2330.0	820.0D	10.0	5.0		MR
	2950	GORK	21 GRF	0555.0	0640.6	137.0	4.5	2.0		
	9500	POTS	4 S/F	0654.2	0654.8	1.7	12.0			
	9100	GORK	20 GRF	0705.7	0717.5	42.3	5.4			
	9500	POTS	1 S	0715.4	0717.1	4.2	10.0			
	9500	POTS	1 S	0733.5	0734.8	2.7	10.0			
	2950	GORK	1 S	0746.4	0746.6	0.4	2.4	1.2		
	9100	GORK	1 S	0815.7	0816.6	2.5	6.4			
	9500	POTS	1 S	0816.3	0816.7	1.1	10.0			
	2950	GORK	21 GRF	0824.0	0920.4	72.0	4.2	2.0		
	2950	GORK	1 S	0838.8	0840.7	3.6	1.8	0.9		
	2950	GORK	1 S	0917.9	0918.3	2.4	2.0	1.0		
	3100	CRIM	24 R	0952.0	1130.0		5.0			
	536	ONDR	8 S	1130.6	1130.7	0.7	35.0			
	245	SGMR	8 S	1137.0	1137.0	1.0	120.0			QL=1 ST=2 TYP=3
	245	SVTO	8 S	1137.0	1138.0	1.0	90.0			QL=1 ST=2 TYP=3
	204	IZMI	5 S	1138.5	1138.7	0.3	52.0	45.0		
	8400	BERN	3 S	1437.0	1445.0	16.0	40.0			13% QS
	11800	BERN	3 S	1437.0	1445.0	16.0	35.0			8% QS
	5200	BERN	3 S	1437.0	1445.0	16.0	42.0			18% QS
	3200	BERN	3 S	1437.0	1445.0	16.0	17.0			10% QS
	8800	SGMR	8 S	1516.0	1516.0	1.0	140.0			QL=1 ST=2 TYP=3
	15400	SGMR	8 S	1516.0	1516.0	1.0	70.0			QL=1 ST=2 TYP=3
	15400	SVTO	8 S	1516.0	1517.0	1.0	57.0			QL=1 ST=3 TYP=3
	8800	SVTO	8 S	1516.0	1517.0	1.0	140.0			QL=1 ST=3 TYP=3
	15400	PALE	8 S	1719.0	1719.0	1.0	81.0			QL=1 ST=2 TYP=3
	8800	PALE	8 S	1719.0	1719.0	1.0	97.0			QL=1 ST=2 TYP=3
8800	SGMR	8 S	1719.0	1720.0	2.0	85.0			QL=1 ST=2 TYP=3	
15400	SGMR	4 S/F	1719.0	1720.0		80.0			QL=1 ST=2 TYP=3	
08	200	GORK	44 NS	0250.0E		544.0D		5.0		
	245	SVTO	43 NS	0414.0	1343.0	801.0D	91.0			QL=1 ST=2 TYP=1
	410	SVTO	43 NS	0414.0	1140.0	801.0D	54.0			QL=1 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	20.0			
	260	ONDR	44 NS	0600.0E	1319.8	487.0D	162.0			
	234	POTS	43 NS	0735.0	1122.0	445.0D	55.0			
	127	TORN	43 NS	0852.0		408.0		135.0D		V=1
	100	GORK	43 NS	0909.0		180.0D		10.0		
	245	SGMR	44 NS	1005.0E	1257.0	808.0D	110.0			QL=1 ST=2 TYP=1

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
08	200	HIRA	44 NS	2000.0E	2350.0	820.0D	44.0	16.0		0
	245	LEAR	44 NS	2310.0E	0115.0	639.0D	120.0			QL=1 ST=2 TYP=1
	2950	GORK	21 GRF	0336.0	0520.0	165.0	9.0			
	2950	GORK	1 S	0349.9	0352.0	5.0	5.0	2.5		
	9100	GORK	20 GRF	0428.7	0435.2	111.0	14.0			
	100	GORK	41 F	0428.7	0428.8	8.5	5000.0			
	100	GORK	41 F	0428.7	0436.9		25.0			
	5200	BERN	3 S	0754.0	0754.4	1.5	390.0			171% QS
	19600	BERN	3 S	0754.0	0754.4	1.5	470.0			67% QS
	11800	BERN	3 S	0754.0	0754.4	1.5	920.0			218% QS
	8400	BERN	3 S	0754.0	0754.4	1.5	780.0			246% QS
	2950	GORK	20 GRF	0758.3	1134.1	243.0D	10.8			
	9100	GORK	21 GRF	0758.6	0813.5	242.0D	20.0			
	4995	SVTO	4 S/F	0800.0	0801.0	8.0	50.0			QL=1 ST=2 TYP=3
	3100	CRIM	1 S	0800.0	0801.5	2.0	5.3	1.5		
	5900	KISV	23 GRF	0800.1	0815.0		21.0			
	5900	KISV	23 GRF	0800.1	0801.4	43.0	59.0			
	9300	KISV	22 GRF	0800.3	0801.3	25.0	42.0			
	15000	KISV	21 GRF	0800.4	0801.3	38.5	19.0			
	9100	GORK	3 S	0800.5	0801.2	2.6	34.0			
	3000	POTS	29 PBI	0800.5	0801.4	25.0	9.0			
	9500	POTS	29 PBI	0800.5	0801.4	25.0	31.0			
	204	IZMI	5 S	1048.5	1048.7	0.4	250.0	200.0		
	8400	BERN	3 S	1145.0	1146.2	3.0	135.0			42% QS
	5200	BERN	3 S	1145.0	1146.2	3.0	90.0			40% QS
	11800	BERN	3 S	1145.0	1145.2	3.0	95.0			23% QS
	11800	BERN	46 C	1201.0	1202.3	4.0	160.0			38% QS
	8400	BERN	46 C	1201.0	1202.3	4.0	140.0			45% QS
	5200	BERN	46 C	1201.0	1202.3	4.0	90.0			35% QS
	2800	OTTA	20 GRF	1415.5	1421.0	72.0	18.9	3.0		
	9500	POTS	4 S/F	1415.5	1419.6	10.0	13.0			
	3000	POTS	4 S/F	1415.5	1419.7	20.0	18.0			
	09	100	GORK	44 NS	0254.0E		546.0D		5.0	
245		SVTO	44 NS	0415.0E	1332.0	799.0D	100.0			QL=1 ST=2 TYP=1
204		IZMI	43 NS	0600.0		225.0	10.0			
260		ONDR	44 NS	0600.0E	1341.0U	480.0D				
127		TORN	44 NS	0620.0E	0916.8	560.0D	340.0	10.0		V=1
245		SGMR	43 NS	1006.0	1329.0	806.0D	240.0			QL=1 ST=2 TYP=1
234		POTS	43 NS	1252.0	1332.0	128.0D	66.0			
200		HIRA	44 NS	2000.0E	2225.0	240.0D	5.0	3.0		WR
245		LEAR	44 NS	2309.0E	0627.0	640.0D	120.0			QL=1 ST=2 TYP=1
2840		PEKG	1 S	0226.0	0226.8	2.0	9.0			
2840		PEKG	29 PBI	0228.0		30.0	1.8			
2950		GORK	21 GRF	0351.0	1133.0	490.0D	16.0			
5900		KISV	21 GRF	0425.2	0430.0	31.0	13.0			
9300		KISV	21 GRF	0427.2	0428.2	30.0	9.0			
5900		KISV	23 GRF	0524.0	0535.0	22.0	9.0			
9300		KISV	22 GRF	0527.0	0535.0	18.0	7.0			
2950		GORK	1 S	0534.4	0535.0	1.7	3.7	1.5		
9100		GORK	21 GRF	0603.0	0637.6	358.0D	15.0			
100		GORK	8 S	0611.7	0611.9	0.5	135.0			
3100		CRIM	25 R	0617.0	0641.0		5.0			
9300		KISV	23 GRF	0631.0	0636.7	38.0	24.0			
5900		KISV	23 GRF	0631.0	0636.7	31.0	36.0			
9100		GORK	1 S	0635.8	0636.7	1.5	21.0			
2950		GORK	1 S	0636.0	0636.7	1.5	6.0	3.0		
2950		GORK	1 S	0640.0	0641.0	2.3	5.5			
1470		POTS	1 S	1107.1	1107.4	0.8	4.0			
5900		KISV	2 S/F	1112.6	1113.5	6.0	3.0			
9300		KISV	21 GRF	1112.8	1113.6	16.0	3.0			
3000		POTS	27 RF	1200.5	1207.4	25.0	5.0			
9500		POTS	1 S	1205.5	1207.0	8.0	8.0			
5900	KISV	2 S/F	1205.5	1206.8	7.0	11.0				
9300	KISV	2 S/F	1206.0	1207.4	6.0	7.0				
3100	CRIM	1 S	1246.0	1246.5	2.0	14.5	5.0			
33	UPIC	4 S/F	1359.4	1359.6U	1.2					
245	SVTO	4 S/F	1419.0	1419.0		94.0			QL=1 ST=2 TYP=3	
500	HIRA	41 F	2234.5	2235.2	1.2	56.0			0	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
10	200	GORK	44 NS	0254.0E		556.0D		5.0		
	260	ONDR	44 NS	0550.0E	0933.8U	490.0D	46.0U			
	127	TORN	43 NS	0704.0	0950.0	436.0	240.0	7.0		V=1
	245	SGMR	43 NS	1007.0	1600.0	803.0D	58.0			QL=1 ST=2 TYP=1
	410	PALE	44 NS	1643.0E	1930.0	571.0D	41.0			QL=1 ST=3 TYP=1
	245	PALE	43 NS	1643.0	0034.0	726.0	33.0			QL=1 ST=2 TYP=1
	200	HIRA	44 NS	2000.0E	0817.0	800.0D	7.0	4.0		WL
	245	LEAR	44 NS	2308.0E	0644.0	642.0D	67.0			QL=1 ST=2 TYP=1
	2840	PEKG	1 S	0231.4	0232.4	4.0	5.1			
	2840	PEKG	3 S	0313.8	0314.2	8.0	10.9			
	2950	GORK	21 GRF	0352.7	0846.9	487.0D	18.0			
	245	SVTO	8 S	0626.0	0626.0	1.0	110.0			QL=1 ST=2 TYP=3
	9100	GORK	21 GRF	0639.0	0807.8	246.0	12.0			
	9100	GORK	1 S	0707.6	0707.7	0.5	7.5	3.0		
	2950	GORK	1 S	0720.4	0720.7	1.1	3.6	1.5		
	5900	KISV	45 C	0737.0	0742.1		9.0			
	5900	KISV	45 C	0737.0	0740.3	19.0	12.0			
	3000	POTS	27 RF	0738.0	0742.4	35.0	14.0			
	3100	CRIM	29 PBI	0739.0	0747.0	25.0	4.3	1.5		
	3100	CRIM	1 S	0739.0	0742.5	8.0	9.7	3.0		
	2950	GORK	4 S/F	0739.4	0742.5	6.0	11.0			
	9500	POTS	1 S	0740.1	0740.8	0.9	6.0			
	5900	KISV	22 GRF	0758.0	0804.5	18.0	8.0			
	9300	KISV	2 S/F	0803.0	0804.5	6.0	5.0			
	9300	KISV	42 SER	0907.0	0907.7	23.0	9.0			
	5900	KISV	1 S	0907.0	0907.8	1.5	4.0			
	9300	KISV	42 SER	0907.0	0911.9		16.0			
	9500	POTS	27 RF	0910.5	0911.9	25.0	10.0			
	5900	KISV	45 C	0911.0	0919.0		9.0			
	9100	GORK	2 S/F	0911.0	0911.8	4.0	15.0			
	5900	KISV	45 C	0911.0	0911.8	25.0	12.0			
	2950	GORK	1 S	0918.5	0918.8	1.0	4.2	2.0		
	950	GORK	1 S	0939.0	0939.3	0.5	1.3	0.6		
	100	GORK	8 S	0939.6	0940.3	1.5	90.0			
	9300	KISV	1 S	1028.0	1030.4	3.0	11.0			
	5900	KISV	2 S/F	1029.5	1030.4	4.0	10.0			
9100	GORK	1 S	1029.7	1030.3	1.2	11.0				
430	KRAK	42 SER	1039.0	1039.0	141.0D	15.0				
5900	KISV	1 S	1042.2	1042.9	2.0	3.0				
100	GORK	46 C	1113.1	1113.6	4.3	130.0				
100	GORK	46 C	1113.1	1113.9		130.0				
650	GORK	46 C	1139.6	1140.0		13.0				
650	GORK	46 C	1139.6	1139.8	0.8	14.0				
5900	KISV	1 S	1222.5	1223.5	3.5	14.0				
9300	KISV	1 S	1229.2	1229.4	0.6	5.0				
536	ONDR	40 F	1344.6	1346.7	3.8	39.0				
9500	POTS	3 S	1408.3	1409.3	1.5	15.0				
11	200	GORK	44 NS	0254.0E		556.0D		5.0		
	221	ABST	43 NS	0500.0	0745.0	300.0	7.0			QL= ST= TYP=1
	100	GORK	43 NS	0529.6		330.4		5.0		
	204	I2MI	43 NS	0600.0		360.0	15.0			
	260	ONDR	44 NS	0600.0E	0907.3	480.0D	85.0			
	127	TORN	44 NS	0620.0E		480.0D		11.0		V=1
	245	SVTO	44 NS	0750.0E	0853.0	581.0D	90.0			QL=1 ST=2 TYP=1
	245	SGMR	44 NS	1008.0E	1315.0	832.0D	120.0			QL=1 ST=3 TYP=1
	9300	KISV	21 GRF	0402.5	0405.3	40.0	12.0			
	5900	KISV	46 C	0403.0	0412.3		6.0			
	5900	KISV	45 C	0403.0	0405.3	21.0	11.0			
	5900	KISV	46 C	0403.0	0416.4		8.0			
	9100	GORK	2 S/F	0404.8	0405.4	4.2	5.9			
	2950	GORK	20 GRF	0424.5	1143.0	460.0D	11.0			
	245	SVTO	8 S	0544.0	0544.0	1.0	57.0			QL=1 ST=2 TYP=3
	245	SVTO	8 S	0644.0	0644.0	1.0	98.0			QL=1 ST=2 TYP=3
	9300	KISV	2 S/F	0729.5	0730.1	5.0	5.0			
	5900	KISV	2 S/F	0729.6	0730.0	4.0	7.0			
	430	KRAK	42 SER	0736.0E	0847.5	322.0D	51.0			
	245	SVTO	8 S	0748.0	0748.0	1.0	130.0			QL=1 ST=2 TYP=3
5900	KISV	1 S	0810.0	0811.1	2.0	6.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
11	204	IZMI	41 F	0852.5	0853.0	3.0	110.0			
	5900	KISV	20 GRF	0938.0	0941.5	19.0	3.0			
	9300	KISV	21 GRF	0939.0	0941.8	19.0	6.0			
	204	IZMI	41 F	1136.0	1147.5	14.0	100.0			
	100	HIRA	42 SER	2145.5	2145.5	4.0	760.0			
	200	HIRA	42 SER	2145.5	2145.6	4.0	74.0			WL
12	260	ONDR	44 NS	0620.0E	0843.8	455.0D	227.0			
	127	TORN	43 NS	0914.0	1018.3	300.0	390.0	2.0		V=1
	5900	KISV	2 S/F	0448.0	0449.5	12.0	15.0			
	9100	GORK	22 GRF	0449.2	0449.5	12.0	9.0			
	9300	KISV	2 S/F	0449.3	0449.6	5.0	7.0			
	650	GORK	21 GRF	0531.0	0539.7	14.5	5.2			
	650	GORK	4 S/F	0536.7	0538.3	3.0	48.0			
	2950	GORK	20 GRF	0606.7	0652.9	68.0	6.0			
	100	GORK	46 C	0741.4	0742.4		130.0			
	100	GORK	46 C	0741.4	0741.8	1.2	460.0			
	950	GORK	22 GRF	0828.4	0906.0	211.0D	9.5			
	237	TRST	42 SER	0842.7	0843.3	1.3	191.0			10R
	204	IZMI	41 F	0843.0	0843.5	1.5	73.0			
	3000	POTS	1 S	0939.5	0940.3	1.5	6.0			
	1470	POTS	1 S	0939.7	0940.4	1.1	3.0			
	2950	GORK	1 S	0939.7	0940.7	1.2	5.8			
	327	TRST	45 C	0939.8	0940.4	0.9	40.0			OR
	204	IZMI	5 S	0939.8	0940.5	1.5	38.0	28.0		
	237	TRST	46 C	0939.8	0940.6	0.9	58.0			2R
	950	GORK	46 C	0943.0	0945.7		27.0			
950	GORK	46 C	0943.0	0944.8		67.0				
950	GORK	46 C	0943.0	0946.9		24.0				
950	GORK	46 C	0943.0	0943.9	5.2	94.0				
100	GORK	8 S	1017.3	1017.8	0.7	180.0				
237	TRST	46 C	1017.4	1017.4	0.4	180.0			13L	
650	GORK	4 S/F	1017.5	1018.0	1.8	7.0				
950	GORK	1 S	1024.2	1024.3	0.4	9.0				
13	260	ONDR	44 NS	0610.0E	0914.2	470.0D	39.0U			
	3100	CRIM	1 S	1040.0	1040.2	0.8	2.0	0.7		
	430	KRAK	8 S	1040.0	1040.2	0.5	32.0			
	810	KRAK	8 S	1040.2	1040.2	0.1	3.0			
14	260	ONDR	44 NS	0610.0E	0932.6	470.0D	82.0			
	245	SGMR	44 NS	1011.0E	1135.0	794.0D	69.0			QL=1 ST=2 TYP=1
	245	LEAR	43 NS	2305.0	0616.0	646.0	160.0			QL=1 ST=2 TYP=1
	2840	PEKG	4 S/F	0252.0	0252.9	2.0	18.2			
	2950	GORK	22 GRF	0454.9	0510.0	34.2	5.5			
	3100	CRIM	1 S	0509.0	0509.8	1.5	2.4	0.8		
	9100	GORK	1 S	0509.2	0509.9	4.8	3.9			
	5900	KISV	2 S/F	0627.0	0628.1	3.0	8.0			
	2950	GORK	1 S	0627.3	0628.0	1.0	5.5			
	2950	GORK	29 PBI	0627.3	0628.4	40.0	3.0			
	3100	CRIM	1 S	0627.5	0628.0	3.0	4.0	1.0		
	9300	KISV	2 S/F	0627.5	0628.5	1.5	11.0			
	9100	GORK	1 S	0627.5	0627.9	2.2	4.9			
	3013	IZMI	5 S	0628.0	0630.0	4.0	45.0	35.0		
430	KRAK	42 SER	0811.5	0819.0	177.5	34.0				
204	IZMI	41 F	0907.5	0916.0	10.0	42.0				
536	ONDR	4 S/F	1308.6	1308.7	0.8	77.0				
15	200	HIRA	43 NS	0000.0	0103.0	180.0	18.0	4.0		WR
	245	PALE	44 NS	0000.0E	0043.0	286.0D	90.0			QL=1 ST=2 TYP=1
	410	PALE	44 NS	0017.0E	0226.0	269.0D	88.0			QL=1 ST=2 TYP=1
	410	LEAR	43 NS	0045.0	0229.0	546.0	63.0			QL=1 ST=2 TYP=1
	200	GORK	44 NS	0248.0E		556.0D		5.0		
	245	SVTO	44 NS	0420.0E	0649.0	786.0D	71.0			QL=1 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	80.0			
	260	ONDR	44 NS	0600.0E	1054.5	490.0D	182.0			
	245	SGMR	43 NS	1012.0	1742.0	791.0D	180.0			QL=1 ST=2 TYP=1
	245	PALE	44 NS	1639.0E	1742.0	687.0D	200.0			QL=1 ST=2 TYP=1
	245	LEAR	44 NS	2304.0E	2308.0	56.0D	62.0			QL=1 ST=1 TYP=1

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AUGUST 1988

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
15	500	HIRA	22 GRF	0000.0	0109.0	105.0	13.0	5.0		WR
	410	PALE	4 S/F	0223.0	0223.0		100.0			QL=1 ST=2 TYP=3
	500	HIRA	41 F	0224.0	0238.0	35.0	9.0			WR
	200	HIRA	42 SER	0558.7	0636.0	67.0	18.0			O
	430	KRAK	42 SER	0740.5	0754.5	29.5	13.0			
	204	IZMI	41 F	0815.0	0817.0	2.0	240.0			
	204	IZMI	41 F	0828.0	0835.5	11.0	330.0			
	1470	POTS	4 S/F	0846.1	0846.5	1.4	8.0			
	234	POTS	4 S/F	0939.9	0940.5	1.3	360.0	20.0		
	1470	POTS	41 F	0944.5	0951.0	14.0	10.0			
	234	POTS	4 S/F	1055.0	1055.3	1.2	600.0	100.0		
	2800	OTTA	4 S/F	2042.7	2043.6	2.4	20.1	10.0		
	245	PALE	8 S	2236.0	2237.0	1.0	450.0			QL=1 ST=2 TYP=3
16	200	GORK	44 NS	0248.0E		552.0D		5.0		
	245	SVTO	44 NS	0421.0E	0915.0	784.0D	78.0			QL=1 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	20.0			
	260	ONDR	44 NS	0610.0E	0837.4U	475.0D	203.0			
	245	SGMR	43 NS	1013.0	1745.0	789.0D	290.0			QL=1 ST=2 TYP=1
	245	PALE	44 NS	1642.0E	1952.0	618.0D	87.0			QL=1 ST=2 TYP=1
	245	LEAR	43 NS	2304.0	0733.0	648.0D	130.0			QL=1 ST=2 TYP=1
	2840	PEKG	1 S	0242.0	0243.1	2.0	6.6			
	2950	GORK	20 GRF	0411.6	0549.0	174.0	7.4			
	9100	GORK	22 GRF	0545.3	0547.4	9.5	8.0			
	1470	POTS	27 RF	0931.4	0936.1	29.0	3.0			
	3000	POTS	27 RF	0933.8	0936.1	36.0	3.0			
	9500	POTS	27 RF	0935.0	0937.5	45.0	4.0			
	237	TRST	46 C	1017.4	1017.5	0.7	95.0			5R
	204	IZMI	41 F	1017.5	1018.0	1.0	117.0			
	408	TRST	42 SER	1017.5	1017.5	0.6	55.0			12R
	327	TRST	46 C	1017.5	1017.8	0.6	112.0			11R
	9100	GORK	20 GRF	1109.2		52.0D				
	2950	GORK	20 GRF	1109.9	1133.8	50.0D	4.0			
	3000	POTS	27 RF	1111.0	1140.0	75.0	4.0			
1470	POTS	23 GRF	1111.1	1140.6	75.0	11.0				
33	UPIC	42 SER	1327.0		88.1					
245	PALE	8 S	1743.0	1744.0	1.0	230.0			QL=1 ST=3 TYP=3	
17	200	GORK	43 NS	0407.0		473.0D		5.0		
	245	SVTO	44 NS	0421.0E	1345.0	782.0D	130.0			QL=1 ST=2 TYP=1
	260	ONDR	44 NS	0610.0E	1003.4U	470.0D	117.0			
	245	SGMR	44 NS	1014.0E	1343.0	786.0D	160.0			QL=1 ST=2 TYP=1
	200	HIRA	43 NS	2206.0	0640.0	660.0D	37.0	8.0		MR
	245	PALE	44 NS	2210.0E	2236.0	110.0D	56.0			QL=1 ST=3 TYP=1
	245	LEAR	44 NS	2303.0E	2347.0	649.0D	90.0			QL=1 ST=2 TYP=1
	2950	GORK	22 GRF	0657.4	0719.0	50.0	3.7			
	3100	CRIM	1 S	0718.6	0719.0	1.5	2.0	0.7		
	3100	CRIM	1 S	0832.0	0834.5	6.0	2.0	0.7		
	3100	CRIM	1 S	0912.0	0915.2	6.0	5.0	2.0		
	9500	POTS	20 GRF	0912.0	0916.5	43.0	7.0			
	3000	POTS	22 GRF	0913.0	0915.5	32.0	7.0			
	1470	POTS	4 S/F	0913.0	0914.8	6.5	49.0			
	430	KRAK	8 S	0916.2	0916.5	0.4	92.0			
	237	TRST	46 C	1052.3	1052.3	0.2	213.0			3R
	536	ONDR	42 SER	1056.7		198.3				
	9500	POTS	1 S	1104.0	1104.7	1.5	6.0			
	3000	POTS	1 S	1104.0	1104.8	2.0	3.0			
	1470	POTS	42 SER	1117.0	1123.2	18.0	9.0			
234	POTS	4 S/F	1337.5	1337.6	0.5	140.0	35.0			
245	PALE	8 S	1908.0	1909.0	1.0	130.0			QL=1 ST=2 TYP=3	
245	SGMR	8 S	1908.0	1909.0	1.0	160.0			QL=1 ST=2 TYP=3	
245	PALE	8 S	2152.0	2152.0	1.0	96.0			QL=1 ST=2 TYP=3	
15400	LEAR	8 S	2319.0	2319.0	1.0	170.0			QL=1 ST=2 TYP=3	
18	200	GORK	44 NS	0243.0E		557.0D		10.0		
	245	SVTO	43 NS	0450.0	0520.0	752.0	120.0			QL=1 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	50.0			
	260	ONDR	44 NS	0620.0E	1210.3	473.0D				
	127	TORN	43 NS	0751.0		469.0		15.0		V=2

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m ² Hz)	Mean		
18	245 SGMR	44 NS	1015.0E	1341.0	784.0D	140.0			QL=1 ST=2 TYP=1
	3100 CRIM	1 S	0400.1	0400.9	2.0	5.6	2.0		
	500 HIRA	27 RF	0500.0	0557.0	95.0	6.0	3.0		WR
	237 TRST	46 C	0919.3	0919.4	0.4	72.0			16R
	327 TRST	45 C	0919.3	0919.5	0.4	44.0			13R
	204 IZMI	5 S	0920.0	0920.2	0.5	530.0	400.0		
	237 TRST	46 C	0920.8	0921.2	1.3	201.0			6R
	327 TRST	42 SER	0921.0	0921.1	1.1	71.0			10R
	408 TRST	42 SER	0921.0	0921.7	1.0	49.0			8R
	204 IZMI	5 S	1111.5	1111.8	0.8	520.0	400.0		
	245 SVTO	4 S/F	1205.0	1205.0		350.0			QL=1 ST=2 TYP=3
	33 UPIC	45 C	1205.7	1205.8	0.8				
	237 TRST	47 GB	1206.3	1206.6	0.6	952.0			6R Var. Pol.
	327 TRST	41 F	1206.4	1206.4	0.3	73.0			14R Noise Storm
	245 SGMR	49 GB	1209.0E	1209.0	1.0D	1500.0			QL=1 ST=2 TYP=6
	245 SVTO	49 GB	1209.0E	1209.0	1.0D	1100.0			QL=1 ST=3 TYP=6
	237 TRST	47 GB	1210.2	1210.5	1.7	3588.0			7R Var. Pol.
	327 TRST	42 SER	1210.2	1210.5	1.4	458.0			9R Var. Pol.
408 TRST	42 SER	1210.5	1210.8	0.5	115.0			14R	
19	200 GORK	44 NS	0247.0E		561.0D		5.0		
	245 SVTO	44 NS	0450.0E	0646.0	330.0D	65.0			QL=1 ST=2 TYP=1
	245 LEAR	43 NS	0500.0	0647.0	146.0	58.0			QL=1 ST=2 TYP=1
	204 IZMI	43 NS	0600.0		360.0	20.0			
	260 ONDR	44 NS	0610.0E	0839.5U	471.0D	50.0U			
	245 SGMR	44 NS	1501.0E	1507.0	497.0D	65.0			QL=1 ST=2 TYP=1
	204 IZMI	5 S	0839.5	0839.7	0.8	48.0	35.0		
	536 ONDR	4 S/F	1307.3	1307.6	1.4	17.0			
	3000 POTS	20 GRF	1335.0	1340.2	35.0	7.0			
	1470 POTS	29 PBI	1338.0	1340.0	31.0	23.0			
	9500 POTS	20 GRF	1340.0	1352.0	30.0	12.0			
	234 POTS	27 RF	1340.0	1354.5	65.0	36.0	9.0		
	536 ONDR	45 C	1341.0	1344.1	8.1	74.0			
	410 SGMR	8 S	1343.0	1344.0	2.0	110.0			QL=1 ST=2 TYP=3
	410 SVTO	8 S	1343.0	1344.0	2.0	92.0			QL=1 ST=2 TYP=3
127 TORN	41 F	1346.0	1359.8	27.0	90.0	55.0			
20	810 KRAK	8 S	0734.9	0735.0	0.2	6.0			
	810 KRAK	8 S	0839.2	0839.4	0.4	12.0			
	260 ONDR	42 SER	1021.3		8.0	47.0			
	810 KRAK	8 S	1027.8	1028.0	0.3	13.0			
	430 KRAK	42 SER	1027.8	1028.0	1.2	28.0			
	408 TRST	45 C	1028.1	1028.2	0.2	50.0			OR
	237 TRST	46 C	1028.1	1028.3	0.3	76.0			1L
	260 ONDR	42 SER	1323.5	1327.0	73.5				
21	260 ONDR	42 SER	0550.0E	0821.9	492.0D				
	33 UPIC	45 C	1201.7	1202.2	1.0				
	536 ONDR	4 S/F	1347.2	1347.6	1.1	22.0			
22	260 ONDR	42 SER	0659.5	1236.0	350.5	8.0			
	237 TRST	46 C	0950.5	0950.6	0.3	64.0			3L
	327 TRST	45 C	0950.5	0950.6	0.3	46.0			0L
	430 KRAK	2 S/F	1232.1	1232.6	1.0	10.0	1.0		
	536 ONDR	4 S/F	1232.4	1232.5	4.6	22.0			
	430 KRAK	8 S	1236.0	1236.1	0.3	9.0			
23	245 SVTO	43 NS	0103.0	0858.0	972.0D	310.0			QL=1 ST=3 TYP=1
	260 ONDR	44 NS	0607.0E	0932.2	479.0D	133.0U			
	245 SVTO	43 NS	0631.0	0858.0	644.0D	310.0			QL=1 ST=2 TYP=1
	200 GORK	43 NS	0637.0		323.0D		5.0		
	100 GORK	43 NS	0833.0		154.0		10.0		
	245 SGMR	44 NS	1020.0E	1453.0	771.0D	140.0			QL=1 ST=2 TYP=1
	200 HIRA	44 NS	2000.0E	0228.0	790.0D	7.0	2.0		WL
	3000 POTS	20 GRF		0905.0					
	245 LEAR	4 S/F	0605.0	0605.0		210.0			QL=1 ST=2 TYP=3
	245 SVTO	8 S	0605.0	0605.0	1.0	190.0			QL=1 ST=2 TYP=3
	200 HIRA	8 S	0605.3	0605.3	0.3	205.0			0
204 IZMI	5 S	0611.0	0611.5	1.8	9.0	5.0			

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Outstanding Occurrences

AUGUST 1988

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 ⁻²² W/m ² Hz)	Mean		
23	536 ONDR	45 C	0730.00	0925.6	398.00	64.00			
	237 TRST	46 C	0740.6	0740.7	0.3	234.0		4L	
	650 GORK	23 GRF	0741.2	0848.4	261.00	12.0			
	237 TRST	46 C	0751.3	0751.3	0.3	71.0		6L	
	245 SVTO	8 S	0800.0	0800.0		70.0		QL=1 ST=2 TYP=3	
	204 IZMI	42 SER	0800.0	0925.2	120.0	240.0			
	237 TRST	27 RF	0810.0	0923.0		34.0		47R	
	408 TRST	27 RF	0810.0	0812.0	95.0	59.0		39R	
	327 TRST	27 RF	0810.0	0831.0	95.0	45.0		51R	
	237 TRST	27 RF	0810.0	0838.0	95.0	50.0		64R	
	408 TRST	2 S/F	0813.7	0813.7	0.1	74.0		1L	
	237 TRST	4 S/F	0813.7	0813.7	0.1	219.0		2L	
	327 TRST	4 S/F	0813.7	0813.7	0.1	100.0		2R	
	234 POTS	25 R	0819.5	0857.5	101.0	31.0	12.0		
	9300 KISV	22 GRF	0825.0	0945.0	255.0	30.0			
	950 GORK	23 GRF	0828.4	0906.0	211.00	9.5			
	100 GORK	46 C	0829.6	0830.2		320.0			
	100 GORK	46 C	0829.6	0829.8	2.0	500.0			
	200 GORK	46 C	0829.7	0829.8	2.8	16.0			
	200 GORK	46 C	0829.7	0830.9		150.0			
	430 KRAK	27 RF	0830.0	0841.0	29.00	28.0	12.0		
	5900 KISV	22 GRF	0830.0	0940.0	200.0	29.0			
	610 LEAR	4 S/F	0835.0	0837.0	7.0	32.0		QL=1 ST=2 TYP=3	
	1470 POTS	22 GRF	0835.00	0931.5	290.00	41.0			
	650 GORK	46 C	0835.4	0839.0		34.0			
	650 GORK	46 C	0835.4	0837.8	9.0	34.0			
	9500 POTS	20 GRF	0836.0	0941.0	184.0	28.0			
	3100 CRIM	24 R	0837.0	0930.0		19.0			
	410 LEAR	4 S/F	0838.0	0841.0	4.0	29.0		QL=1 ST=2 TYP=3	
	2950 GORK	22 GRF	0838.8	0933.6	201.00	27.0			
	200 GORK	27 RF	0839.0	0901.6	79.0	20.0		QL=1 ST=2 TYP=3	
	245 LEAR	8 S	0841.0	0843.0	2.0	15.0		QL=1 ST=2 TYP=3	
	9100 GORK	22 GRF	0843.2	0943.3	197.00	30.0			
	237 TRST	46 C	0844.6	0845.0	0.5	138.0		4R	
	408 TRST	46 C	0844.8	0844.9	0.4	311.0		3L Fine Struct.	
	327 TRST	4 S/F	0844.9	0844.9	0.2	315.0		3R	
	15000 KISV	22 GRF	0845.0	0936.0	220.0	40.0			
	650 GORK	4 S/F	0848.4	0849.6	2.3	13.0			
	410 LEAR	8 S	0904.0	0904.0	1.0	120.0		QL=1 ST=2 TYP=3	
	245 LEAR	8 S	0904.0	0905.0	1.0	48.0		QL=1 ST=2 TYP=3	
	245 SVTO	8 S	0904.0	0904.0	1.0	200.0		QL=1 ST=2 TYP=3	
	410 SVTO	8 S	0904.0	0905.0	1.0	150.0		QL=1 ST=2 TYP=3	
	2695 LEAR	20 GRF	0904.0	0918.0	14.0	34.0		QL=1 ST=2 TYP=2	
	100 GORK	41 F	0907.9	0908.2	17.2	180.0			
	100 GORK	41 F	0907.9	0924.4		560.0			
	100 GORK	41 F	0907.9	0910.6		320.0			
	15400 LEAR	8 S	0908.0	0908.0	1.0	21.0		QL=1 ST=2 TYP=3	
	650 GORK	8 S	0910.6	0910.9	0.5	52.0			
	237 TRST	2 S/F	0911.1	0911.2	0.1	49.0		5R	
	408 TRST	2 S/F	0911.1	0911.2	0.1	50.0		8R	
327 TRST	2 S/F	0911.1	0911.2	0.1	54.0		5R		
327 TRST	46 C	0912.3	0912.3	0.2	158.0		2R		
408 TRST	46 C	0912.3	0912.3	0.2	84.0		2R		
237 TRST	47 GB	0912.3	0912.3	0.2	616.0		1L		
327 TRST	42 SER	0912.9	0913.8	1.1	86.0		1R		
237 TRST	42 SER	0912.9	0913.8	1.1	89.0		6R		
408 TRST	42 SER	0912.9	0912.9	1.1	65.0		4R		
15400 LEAR	8 S	0919.0	0919.0	1.0	31.0		QL=1 ST=2 TYP=3		
2695 LEAR	4 S/F	0919.0	0919.0	14.0	16.0		QL=1 ST=2 TYP=3		
610 LEAR	8 S	0920.0	0921.0	1.0	21.0		QL=1 ST=2 TYP=3		
245 LEAR	8 S	0920.0	0921.0	1.0	16.0		QL=1 ST=2 TYP=3		
650 GORK	46 C	0920.2	0921.3		24.0				
650 GORK	46 C	0920.2	0920.6	2.5	25.0				
2695 LEAR	4 S/F	0923.0	0925.0	5.0	15.0		QL=1 ST=2 TYP=3		
245 LEAR	8 S	0924.0	0924.0	2.0	65.0		QL=1 ST=2 TYP=3		
200 GORK	4 S/F	0924.0	0925.1	1.3	100.0				
410 LEAR	8 S	0925.0	0925.0	1.0	57.0		QL=1 ST=2 TYP=3		
610 LEAR	8 S	0925.0	0925.0	1.0	100.0		QL=1 ST=2 TYP=3		
650 GORK	8 S	0925.5	0925.8	0.5	44.0				

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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
23	2695	LEAR	8 S	0928.0	0929.0	1.0	18.0			QL=1 ST=2 TYP=3	
	610	LEAR	8 S	0929.0	0929.0	2.0	28.0			QL=1 ST=2 TYP=3	
	15400	LEAR	8 S	0929.0	0929.0	1.0	18.0			QL=1 ST=2 TYP=3	
	245	LEAR	8 S	0932.0	0932.0	2.0	200.0			QL=1 ST=2 TYP=3	
	234	POTS	4 S/F	0932.3	0932.4	0.3	440.0	150.0			
	650	GORK	46 C	0937.5	0938.3	10.5	15.0				
	650	GORK	46 C	0937.5	0945.5		14.0				
	950	GORK	46 C	0943.0	0945.7		27.0				
	950	GORK	46 C	0943.0	0944.8		67.0				
	950	GORK	46 C	0943.0	0943.9	5.2	94.0				
	950	GORK	46 C	0943.0	0946.9		24.0				
	950	GORK	1 S	1024.2	1024.3	0.4	9.0				
	245	SVTO	8 S	1145.0	1145.0	1.0	460.0				QL=1 ST=3 TYP=3
	33	UPIC	42 SER	1305.3	1314.8	61.8					
	245	SGMR	8 S	1313.0	1314.0	1.0	160.0				QL=1 ST=2 TYP=3
	234	POTS	41 F	1313.1	1314.3	1.7	165.0				
	30	POTS	41 F	1313.4	1314.4	1.4	600.0				
	2800	OTTA	20 GRF	1656.3	1850.0	540.00	33.9	16.0			
	2800	OTTA	3 S	1703.7	1707.5	10.2	44.9	22.0			
	245	PALE	8 S	2004.0	2005.0	2.0	140.0				QL=1 ST=2 TYP=3
	2800	OTTA	3 S	2005.7	2006.2	5.7	23.6	7.0			
	24	245	LEAR	44 NS	0030.0E	0103.0	1410.00	70.0			QL=1 ST=1 TYP=1
		245	PALE	44 NS	0145.0E	0255.0	175.00	69.0			QL=1 ST=2 TYP=1
200		GORK	44 NS	0254.0E		546.00		5.0			
245		SVTO	44 NS	0409.0E	0538.0	1191.00	26.0			QL=1 ST=1 TYP=1	
245		SVTO	44 NS	0429.0E	0538.0	1171.00	26.0			QL=1 ST=1 TYP=1	
260		ONDR	44 NS	0600.0E	1254.8	507.00	163.0				
245		SGMR	44 NS	1021.0E	2021.0	769.00	170.0				QL=1 ST=2 TYP=1
245		PALE	44 NS	2035.0E	0000.0	416.00	68.0				QL=1 ST=2 TYP=1
245		LEAR	4 S/F	0605.0	0605.0		210.0				QL=1 ST=2 TYP=3
3100		CRIM	24 R	0606.0	0720.0		4.0				
204		IZMI	41 F	0645.0	0645.5	5.0	33.0				
204		IZMI	42 SER	0713.0	0727.5	42.0	100.0				
200		GORK	41 F	0720.8	0746.0		30.00				
200		GORK	41 F	0720.8	0727.1		30.0				
200		GORK	41 F	0720.8	0725.1	29.4	25.0				
430		KRAK	42 SER	0721.0	0727.2	6.5	20.0				
237		TRST	41 F	0727.0	0727.1	0.3	145.0				68L Noise Storm
408		TRST	45 C	0727.0	0727.2	0.3	46.0				4L
327		TRST	45 C	0727.0	0727.2	0.3	34.0				1R
430		KRAK	8 S	0745.9	0745.9	0.1	6.0				
245		LEAR	8 S	0800.0	0800.0	1.0	55.0				QL=1 ST=2 TYP=3
200		GORK	8 S	0847.7	0847.8	0.4	25.0				
5900		KISV	20 GRF	0848.0	0913.0	117.0	5.0				
430		KRAK	8 S	0938.5	0938.6	0.3	3.0				
200		GORK	4 S/F	0938.8	0939.1	0.6	25.0				
430		KRAK	41 F	1113.8	1119.5	15.7	11.0	3.0			
234		POTS	42 SER	1247.8	1254.7	7.5	190.0	2.0			
245		SGMR	4 S/F	1248.0	1248.0		140.0				QL=1 ST=2 TYP=3
30		POTS	42 SER	1248.2	1250.1	9.9	350.0	5.0			
536		ONDR	4 S/F	1253.6	1254.4	7.1	34.0				
245	SGMR	8 S	1254.0	1254.0	1.0	190.0				QL=1 ST=2 TYP=3	
810	KRAK	8 S	1254.0	1254.3	1.0	3.0					
430	KRAK	8 S	1254.0	1254.5	1.0	51.0					
245	SGMR	8 S	1530.0	1530.0	1.0	250.0				QL=1 ST=2 TYP=3	
245	SVTO	8 S	1530.0	1530.0	1.0	150.0				QL=1 ST=2 TYP=3	
245	PALE	4 S/F	1747.0	1747.0		110.0				QL=1 ST=2 TYP=3	
25	200	GORK	44 NS	0305.0E		535.00		5.0			
	100	GORK	43 NS	0354.0		131.0		5.0			
	260	ONDR	44 NS	0600.0E	0904.3	247.00	16.0				
	100	GORK	43 NS	0906.0		123.0		10.0			
	15400	LEAR	4 S/F	0047.0	0052.0	8.0	110.0				QL=1 ST=2 TYP=5
	100	GORK	5 S	0729.7	0730.2	1.0	46.0				
	430	KRAK	8 S	0729.8	0730.0	0.4	5.0				
	810	KRAK	8 S	0729.8	0730.0	0.4	27.0				
	1470	POTS	8 S	0729.8	0730.4	0.9	62.0				
	1415	SVTO	8 S	0730.0	0730.0	2.0	75.0				QL=1 ST=2 TYP=3

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

AUGUST 1988

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks	
25	810	KRAK	8 S	0746.7	0746.7	0.5	5.0				
	650	GORK	23 GRF	0903.7E	0947.2	151.00	9.5				
	1470	POTS	4 S/F	0906.0	0908.5	5.2	28.0				
	810	KRAK	2 S/F	0906.5	0906.8	1.8	15.0	2.0			
	650	GORK	4 S/F	0906.7	0908.5	3.0	11.5				
	2950	GORK	23 GRF	0907.6E	0938.2	77.40	4.5				
	950	GORK	4 S/F	0908.1	0908.4	1.3	21.0				
	950	GORK	23 GRF	0908.2	0959.5	172.00	13.0				
	810	KRAK	3 S	0920.3	0921.5	4.0	9.0	3.0			
	950	GORK	46 C	0921.1	0925.0		11.0				
	950	GORK	46 C	0921.1	0923.5	5.1	9.6				
	1470	POTS	4 S/F	0921.5	0922.5	5.0	16.0				
	650	GORK	4 S/F	0921.6	0922.5	5.3	12.0				
	3100	CRIM	3 S	0921.8	0923.5	2.5	15.5	3.0			
	3000	POTS	4 S/F	0922.0	0923.2	2.0	13.0				
	950	GORK	46 C	0940.4	0941.2		14.0				
	950	GORK	46 C	0940.4	0940.6	1.1	27.0				
	234	POTS	4 S/F	1020.1	1020.5	0.6	120.0	40.0			
	100	GORK	8 S	1128.4	1128.7	0.5	330.0				
	200	GORK	8 S	1128.4	1128.7	0.9	30.00				
	26	200	GORK	44 NS	0258.0E		542.00		5.0		
		204	IZMI	43 NS	0600.0		360.0	10.0			
		260	ONDR	44 NS	0610.0E	1124.6	495.00	56.0			
		100	GORK	43 NS	0811.0		51.0		5.0		
		245	SGMR	44 NS	1510.0E	1610.0	477.00	62.0			QL=1 ST=2 TYP=1
245		PALE	44 NS	1758.0E	1759.0	259.00	12.0			QL=1 ST=2 TYP=1	
200		HIRA	27 RF	0505.0	0528.0	75.0	6.0	2.0		0	
100		GORK	41 F	0702.4	0705.0		180.0				
100		GORK	41 F	0702.4	0702.5	2.4	90.0				
33		UPIC	42 SER	1024.9		310.1					
5900		KISV	28 PRE	1046.00	1117.1	32.00	8.0				
9300		KISV	1 S	1046.5	1048.3	3.0	7.0				
9300		KISV	28 PRE	1049.5	1118.0	28.5	4.0				
15000		KISV	28 PRE	1054.0	1118.0	24.0	5.0				
2950		GORK	21 GRF	1106.4	1116.8	24.5	5.9				
3000		POTS	4 S/F	1106.5	1123.3	40.0	39.0				
1470		POTS	20 GRF	1107.0	1124.5	48.0	7.0				
3100		CRIM	29 PBI	1109.0	1130.0	21.0	3.0	1.0			
3100		CRIM	3 S	1109.0	1123.4	21.0	27.8	9.0			
2950		GORK	3 S	1117.6	1123.2	10.3	18.0				
9500		POTS	3 S	1118.0	1124.0	26.0	42.0				
15000		KISV	29 PBI	1118.0	1128.0	36.0	9.0				
9300		KISV	29 PBI	1118.0	1129.0	41.0	11.0				
950		GORK	46 C	1118.0	1120.1	14.2	16.0				
950		GORK	46 C	1118.0	1123.3		8.5				
950		GORK	46 C	1118.0	1121.7		11.5				
9100		GORK	3 S	1118.0	1123.7	11.0	58.0	25.0			
9300		KISV	4 S/F	1118.0	1123.9	11.0	53.0				
5900		KISV	4 S/F	1118.0	1123.9	12.0	61.0				
15000		KISV	2 S/F	1118.0	1123.9	10.0	21.0				
650		GORK	40 F	1118.1	1124.5	7.1	11.0				
234		POTS	27 RF	1118.5	1125.5	32.0	65.0				
200		GORK	2 S/F	1119.1	1119.8	1.4	20.0				
3013		IZMI	5 S	1120.0	1124.0	7.0	16.0	8.0			
204		IZMI	41 F	1120.0	1131.5	18.0	31.0				
200		GORK	27 RF	1120.9	1125.8	39.00	15.0				
100		GORK	41 F	1121.0	1131.6		140.0				
100		GORK	41 F	1121.0	1124.8	12.0	18.0				
15400		SGMR	4 S/F	1122.0	1123.0	4.0	67.0			QL=1 ST=2 TYP=3	
4995		SVTO	4 S/F	1122.0	1123.0	3.0	65.0			QL=1 ST=2 TYP=3	
4995		SGMR	8 S	1123.0	1123.0	1.0	65.0			QL=1 ST=2 TYP=3	
245		SGMR	4 S/F	1123.0	1125.0	3.0	82.0			QL=1 ST=2 TYP=3	
8800		SGMR	8 S	1123.0	1124.0	1.0	54.0			QL=1 ST=2 TYP=3	
245		SVTO	8 S	1124.0	1125.0	2.0	53.0			QL=1 ST=2 TYP=3	
810		KRAK	41 F	1128.5E	1128.8	1.5D	5.0	1.0			
5900	KISV	29 PBI	1130.0		49.0	12.0					
30	POTS	42 SER	1132.5	1147.6	18.0	400.0					
810	KRAK	41 F	1321.0	1321.0	3.5	12.0	1.0				

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

35
Aug 88

AUGUST 1988

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m ² Hz)	Mean			
27	200	GORK	44 NS	0301.0E		392.0D		5.0			
	245	LEAR	44 NS	0437.0E	0517.0	319.0D	73.0			QL=1 ST=2 TYP=1	
	204	IZMI	43 NS	0600.0		360.0	15.0				
	245	SVTO	44 NS	0607.0E	1012.0	293.0D	69.0			QL=1 ST=2 TYP=1	
	100	GORK	43 NS	0626.0		187.0		10.0			
	260	ONDR	44 NS	0630.0E	1012.3	450.0D	62.0				
	245	SGMR	44 NS	1024.0E	1607.0	761.0D	85.0			QL=1 ST=2 TYP=1	
	100	GORK	41 F	0621.0	0621.1	27.0	90.0				
	100	GORK	41 F	0621.0	0641.9		30.0				
	100	GORK	41 F	0621.0	0625.9		90.0				
	650	GORK	23 GRF	0624.0	0814.0	186.0D	12.0				
	950	GORK	23 GRF	0627.3	0730.0	171.0	20.0				
	950	GORK	46 C	0744.1	0745.4		6.5				
	950	GORK	46 C	0744.1	0744.5	2.3	6.5				
	9100	GORK	20 GRF	0753.4	0810.2	40.0	10.0				
	200	GORK	2 S/F	0812.6	0812.7	1.5	25.0D				
	650	GORK	2 S/F	0812.7	0813.2	1.3	3.0				
	1470	POTS	42 SER	1141.5	1142.6	5.0	31.0				
	9300	KISV	2 S/F	1156.5	1159.1	6.5	38.0				
	5900	KISV	2 S/F	1157.5	1159.1	7.0	30.0				
	3000	POTS	1 S	1158.0	1159.0	3.0	5.0				
	15000	KISV	2 S/F	1158.0	1159.2	1.6	13.0				
	9500	POTS	3 S	1158.3	1159.0	4.7	26.0				
	245	LEAR	4 S/F	2310.0	2310.0		290.0			QL=1 ST=2 TYP=3	
	245	PALE	4 S/F	2310.0	2310.0		360.0			QL=1 ST=2 TYP=3	
	200	HIRA	8 S	2310.0	2310.3	0.7	2300.0			0	
	28	245	LEAR	43 NS	0219.0	0811.0	457.0D	70.0			QL=1 ST=2 TYP=1
245		PALE	44 NS	0233.0E	0307.0	1287.0D	54.0			QL=1 ST=3 TYP=1	
200		GORK	44 NS	0304.0E		389.0D		5.0			
260		ONDR	44 NS	0630.0E	1125.4	476.0D	126.0				
245		SGMR	44 NS	1025.0E	1213.0	758.0D	110.0			QL=1 ST=2 TYP=1	
245		SVTO	43 NS	1114.0	1125.0	112.0D	110.0			QL=1 ST=2 TYP=1	
100		HIRA	44 NS	2000.0E	0713.0	790.0D	140.0	85.0			
200		HIRA	44 NS	2000.0E	0636.0	790.0D	36.0	12.0		MR	
200		GORK	27 RF	0414.3	0449.6	194.5	10.0				
245		SVTO	8 S	0726.0	0726.0	1.0	74.0			QL=1 ST=2 TYP=3	
234		POTS	4 S/F	0726.0	0726.5	1.1	110.0	35.0			
204		IZMI	5 S	0726.5	0726.7	0.5	80.0	70.0			
5900		KISV	1 S	0733.6	0734.0	2.0	6.0				
9300		KISV	1 S	0733.6	0734.0	1.2	8.0				
9100		GORK	1 S	0733.7	0734.0	1.1	11.0	5.0			
234		POTS	4 S/F	1123.5	1125.2	3.4	500.0	25.0			
9300		KISV	22 GRF	1124.0	1130.0	10.0	6.0				
5900		KISV	22 GRF	1124.0	1130.0	12.0	7.0				
204		IZMI	5 S	1124.5	1125.2	2.0	570.0	400.0			
245		SGMR	8 S	1125.0	1125.0	1.0	170.0			QL=1 ST=2 TYP=3	
33		UPIC	45 C	1235.7	1235.8	0.8					
200		HIRA	46 C	2312.3	2314.3	3.3	85.0	18.0		0	
610		LEAR	8 S	2313.0	2314.0	2.0	51.0			QL=1 ST=2 TYP=3	
200		HIRA	8 S	2336.3	2337.0	0.8	305.0			0	
29		200	GORK	44 NS	0258.0E		504.0D		5.0		
		100	GORK	44 NS	0300.0E		504.0D		5.0		
		245	SVTO	44 NS	0433.0E	1623.0	753.0D	56.0			QL=1 ST=3 TYP=1
	204	IZMI	43 NS	0600.0		360.0	40.0				
	234	POTS	44 NS	0600.0E	1418.0	533.0D	55.0				
	260	ONDR	44 NS	0605.0E	1057.5	475.0D	66.0				
	245	SGMR	44 NS	1027.0E	1754.0	755.0D	210.0			QL=1 ST=2 TYP=1	
	245	PALE	44 NS	1649.0E	2336.0	706.0D	250.0			QL=1 ST=2 TYP=1	
	200	HIRA	44 NS	2010.0E	2354.0	790.0D	68.0	37.0		MR	
	100	HIRA	44 NS	2010.0E	2230.0	790.0D	46.0	14.0			
	2950	GORK	21 GRF	0640.1	1137.7	320.0D	11.0				
	3100	CRIM	25 R	0643.0	1140.0		9.0				
	5900	KISV	23 GRF	0832.5	0840.7	33.5	5.0				
	5900	KISV	29 PBI	0941.4	0951.1	25.5	16.0				
	5900	KISV	4 S/F	0941.4	0948.6	9.5	156.0				
	3000	POTS	3 S	0945.0	0948.5	15.0	87.0				
	9500	POTS	3 S	0945.0	0948.5	38.0	98.0				

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

AUGUST 1988

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 ⁻²² W/m ² Hz)		Int	Remarks
						Peak	Mean		
29	3100 CRIM	29 PBI	0945.2	0951.0	12.0	5.0	3.0		
	3100 CRIM	3 S	0945.2	0948.3	6.0	31.4	10.0		
	9300 KISV	4 S/F	0945.3	0948.5	5.0	112.0			
	9300 KISV	29 PBI	0945.3	0950.5	24.0	11.0			
	9100 GORK	21 GRF	0945.9	0950.7	17.2	10.7			
	2950 GORK	3 S	0946.9	0949.0	51.0	60.0			
	8800 SVTO	8 S	0947.0	0948.0	2.0	110.0			QL=1 ST=3 TYP=3
	4995 SVTO	8 S	0947.0	0948.0	2.0	100.0			QL=1 ST=3 TYP=3
	9100 GORK	3 S	0947.0	0948.5	3.8	126.0			
	15000 KISV	2 S/F	0947.1	0948.6	4.0	37.0			
	1470 POTS	1 S	0948.0	0948.4	1.2	2.0			
	536 ONDR	41 F	1023.5	1026.5	3.7	29.0			
	9100 GORK	20 GRF	1051.0	1114.0	38.0	6.6			
	5900 KISV	22 GRF	1103.2	1105.1	19.5	6.0			
	9300 KISV	2 S/F	1103.3	1105.3	3.5	3.0			
	430 KRAK	42 SER	1200.8	1213.0	46.5	16.0			
	5900 KISV	2 S/F	1333.2	1334.7	6.5	10.0			
	8800 SGMR	8 S	1545.0	1545.0	1.0	63.0			QL=1 ST=2 TYP=3
	8800 SVTO	8 S	1545.0	1545.0	2.0	65.0			QL=1 ST=3 TYP=3
	610 PALE	4 S/F	1715.0	1715.0	5.0	82.0			QL=1 ST=2 TYP=3
245 PALE	8 S	1753.0	1754.0	2.0	140.0			QL=1 ST=2 TYP=3	
30	200 GORK	44 NS	0258.0E		542.0D		5.0		
	100 GORK	44 NS	0300.0E		540.0D		5.0		
	245 SVTO	43 NS	0434.0	1159.0	750.0D	90.0			QL=1 ST=3 TYP=1
	234 POTS	44 NS	0550.0E	1348.0	548.0D	50.0			
	204 IZMI	43 NS	0600.0		360.0	20.0			
	260 ONDR	44 NS	0600.0E	1019.0	480.0D	84.0			
	245 SGMR	44 NS	1028.0E	1347.0	752.0D	170.0			QL=1 ST=2 TYP=1
	245 PALE	44 NS	1656.0E	1658.0	698.0D	87.0			QL=1 ST=2 TYP=1
	100 HIRA	43 NS	2010.0	0745.0	790.0D	280.0	120.0		
	200 HIRA	44 NS	2010.0E	0729.0	790.0D	36.0U	22.0U		MR
	245 LEAR	44 NS	2251.0E	0809.0	666.0D	86.0			QL=1 ST=2 TYP=1
	245 LEAR	44 NS	2252.0E	2336.0	664.0D	220.0			QL=1 ST=2 TYP=1
	100 GORK	4 S/F	0332.4	0334.9	5.2	340.0			
	500 HIRA	20 GRF	0347.0	0415.0	110.0	5.0	3.0		0
	410 LEAR	8 S	0425.0	0427.0	2.0	81.0			QL=1 ST=2 TYP=3
	245 LEAR	8 S	0426.0	0427.0	1.0	130.0			QL=1 ST=2 TYP=3
	100 GORK	46 C	0559.3	0601.3		340.0			
	100 GORK	46 C	0559.3	0600.8	2.3	220.0			
	430 KRAK	8 S	0733.0	0733.1	0.3	46.0			
	810 KRAK	8 S	0805.8	0805.8	0.1	4.0			
	234 POTS	41 F	0941.0	1019.0	41.0	500.0			
	9300 KISV	1 S	0948.8	0950.2	2.8	4.0			
	15000 KISV	1 S	0949.8	0950.0	0.7	6.0			
	5900 KISV	2 S/F	0949.8	0950.1	1.1	3.0			
	9300 KISV	22 GRF	1022.5	1030.4	12.6	4.0			
	9300 KISV	2 S/F	1024.0	1024.4	1.3	5.0			
	5900 KISV	1 S	1107.4	1109.4	6.0	4.0			
	536 ONDR	41 F	1221.6	1221.7	6.8	2.0			
	5900 KISV	1 S	1300.5	1301.0	1.4	2.0			
	810 KRAK	2 S/F	1330.5	1330.7	1.0	27.0	2.0		
	5900 KISV	45 C	1342.0	1351.1		40.0			
	5900 KISV	45 C	1342.0	1347.6	42.0	75.0			
	2800 OTTA	4 S/F	1343.3	1348.0	59.0	44.7	13.0		
	9300 KISV	45 C	1343.5	1351.1		27.0			
	9300 KISV	45 C	1343.5	1347.7	40.5D	45.0			
245 SVTO	8 S	1344.0	1344.0	1.0	73.0			QL=1 ST=2 TYP=3	
4995 SGMR	8 S	1347.0	1347.0	1.0	64.0			QL=1 ST=2 TYP=3	
245 SVTO	8 S	1347.0	1348.0	1.0	66.0			QL=1 ST=2 TYP=3	
4995 SVTO	8 S	1347.0	1347.0	1.0	74.0			QL=1 ST=2 TYP=3	
15000 KISV	1 S	1347.1	1347.8	2.3	18.0				
15000 KISV	1 S	1350.4	1351.2	1.7	12.0				
3000 POTS	4 S/F	1406.0	1408.4	19.0	98.0				
5900 KISV	46 C	1407.8	1408.3	1.5	118.0				
9300 KISV	46 C	1407.9	1409.2		27.0				
9300 KISV	46 C	1407.9	1408.4	2.5	43.0				
9500 POTS	4 S/F	1407.9	1408.5	2.1	30.0				
2695 SGMR	8 S	1408.0	1408.0	1.0	100.0			QL=1 ST=3 TYP=3	

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

37
Aug 88

AUGUST 1988

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
30	4995	SGMR	4 S/F	1408.0	1408.0		110.0			QL=1 ST=2 TYP=3
	4995	SVTO	8 S	1408.0	1408.0	1.0	100.0			QL=1 ST=3 TYP=3
	2695	SVTO	4 S/F	1408.0	1408.0	9.0	160.0			QL=1 ST=3 TYP=3
	1470	POTS	4 S/F	1408.0	1409.5U	7.0	42.0			
	245	SVTO	4 S/F	1409.0	1411.0	4.0	290.0			QL=1 ST=3 TYP=3
	234	POTS	5 S	1409.0	1411.5	5.5	330.0	60.0		
	30	POTS	4 S/F	1409.5	1412.7	6.0	2000.0	100.0		
	410	SGMR	8 S	1411.0	1413.0	2.0	320.0			QL=1 ST=3 TYP=3
	245	SGMR	49 GB	1411.0E	1411.0	1.0D	530.0			QL=1 ST=3 TYP=6
	410	SVTO	8 S	1411.0	1411.0	2.0	360.0			QL=1 ST=3 TYP=3
	9500	POTS	4 S/F	1434.8	1435.5	5.2	13.0			
15400	LEAR	8 S	2327.0	2327.0	1.0	110.0			QL=1 ST=2 TYP=3	
31	200	GORK	44 NS	0300.0E		543.0D		5.0		
	100	GORK	44 NS	0300.0E		540.0D		35.0		
	234	POTS	44 NS	0550.0E	0859.0	550.0D	32.0			
	204	IZMI	43 NS	0600.0		360.0	35.0			
	260	ONDR	44 NS	0600.0E	1126.6	470.0D				
	245	SGMR	43 NS	1029.0	1612.0	811.0	300.0			QL=1 ST=1 TYP=1
	245	SGMR	44 NS	1029.0E	1229.0	811.0D	66.0			QL=1 ST=1 TYP=1
	245	SGMR	44 NS	1029.0E	1458.0	811.0D	100.0			QL=1 ST=1 TYP=1
	245	PALE	44 NS	1639.0E	0232.0	714.0D	180.0			QL=1 ST=3 TYP=1
	200	HIRA	44 NS	2010.0E	2300.0	790.0D	37.0	14.0U		0
	245	LEAR	44 NS	2250.0E	0232.0	662.0D	210.0			QL=1 ST=2 TYP=1
	410	LEAR	8 S	0134.0	0135.0	1.0	390.0			QL=1 ST=2 TYP=3
	410	PALE	8 S	0134.0	0135.0	1.0	280.0			QL=1 ST=2 TYP=3
	500	HIRA	41 F	0134.7	0135.0	1.6	840.0			0
	610	LEAR	8 S	0224.0	0224.0	1.0	92.0			QL=1 ST=2 TYP=3
	2950	GORK	20 GRF	0356.5	1154.7	480.0D	16.0			
	410	LEAR	8 S	0457.0	0459.0	2.0	250.0			QL=1 ST=2 TYP=3
	500	HIRA	42 SER	0457.1	0459.0	2.1	25.0			0
	950	GORK	1 S	0458.0	0459.3	2.0	4.0			
	410	SVTO	8 S	0459.0	0459.0	2.0	390.0			QL=1 ST=3 TYP=3
	3100	CRIM	24 R	0642.0	0709.0		9.0			
	5900	KISV	1 S	0642.0	0644.4	6.5	6.0			
	9300	KISV	1 S	0644.0	0644.4	1.0	2.0			
	9100	GORK	20 GRF	0820.0U	0946.6	406.0D	11.0			
	5900	KISV	2 S/F	0849.0	0851.4	6.8	6.0			
	9300	KISV	2 S/F	0850.2	0851.3	5.0	4.0			
	5900	KISV	22 GRF	0937.7	0942.2	59.0	8.0			
	5900	KISV	46 C	1107.7	1108.2	2.4	3.0			
	234	POTS	4 S/F	1115.6	1117.3	3.8	1900.0	30.0		
	245	SGMR	49 GB	1116.0E	1116.0	1.0D	580.0			QL=1 ST=2 TYP=6
	245	SVTO	8 S	1116.0	1116.0	1.0	350.0			QL=1 ST=2 TYP=3
	200	GORK	46 C	1116.5	1117.5		1750.0			
	204	IZMI	41 F	1116.5	1117.5	3.5	7000.0			
	200	GORK	46 C	1116.5	1116.8	2.6	730.0			
	237	TRST	42 SER	1116.8	1117.5	2.2	2956.0			29L Var. Pol.
	327	TRST	42 SER	1116.8	1116.9	2.2	280.0			7L Spike
	30	POTS	4 S/F	1117.1	1118.3	2.1	1200.0	200.0		
	9300	KISV	2 S/F	1138.3	1138.7	2.7	6.0			
	9100	GORK	1 S	1138.4	1138.7	2.1	9.3			
	5900	KISV	1 S	1154.0	1155.0	2.0	3.0			
536	ONDR	42 SER	1217.1	1229.2	18.4	103.0				
245	SGMR	8 S	1224.0	1226.0	2.0	380.0			QL=1 ST=2 TYP=3	
245	SVTO	8 S	1224.0	1226.0	2.0	200.0			QL=1 ST=2 TYP=3	
234	POTS	41 F	1224.1	1226.0	4.0	360.0	20.0			
810	KRAK	8 S	1226.0	1226.0	0.1	10.0				
410	SGMR	49 GB	1229.0E	1229.0	2.0D	1300.0			QL=1 ST=2 TYP=6	
410	SVTO	49 GB	1229.0E	1229.0	2.0D	1700.0			QL=1 ST=3 TYP=6	
5900	KISV	20 GRF	1235.0	1236.9	4.5	5.0				
245	SGMR	8 S	1238.0	1238.0	2.0	150.0			QL=1 ST=2 TYP=3	
245	SGMR	49 GB	1255.0E	1255.0	1.0D	2000.0			QL=1 ST=2 TYP=6	
245	SVTO	49 GB	1255.0E	1255.0	1.0D	800.0			QL=1 ST=3 TYP=6	
234	POTS	4 S/F	1255.7	1255.8	0.5	2900.0	725.0			
9300	KISV	22 GRF	1323.5	1331.5	12.0	7.0				
5900	KISV	2 S/F	1351.0	1351.3	0.6	10.0				
9300	KISV	1 S	1351.1	1351.2	0.4	6.0				
245	SGMR	8 S	1430.0	1431.0	1.0	410.0			QL=1 ST=2 TYP=3	

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

AUGUST 1988

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
31	245 SVTO	8 S	1430.0	1431.0	1.0	240.0			QL=1 ST=2 TYP=3
	245 SGMR	49 GB	1605.0E	1605.0	2.0D	630.0			QL=1 ST=2 TYP=6
	2695 SGMR	8 S	1642.0	1643.0	1.0	230.0			QL=1 ST=3 TYP=3

Reports are received routinely from the following observatories:

BERN = Berne	IZMI = IZMIRAN	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	KISK = Kislovodsk	OTTA = Ottawa	SYDN = Sydney
GORK = Gorky	KRAK = Krakow	PALE = Palehua	TORN = Torun
HIRA = Hiraio	LEAR = Learmonth	PENT = Penticton	TRST = Trieste
HUAN = Huancayo	NOBE = Nobeyama	POTS = Potsdam	TYKW = Toyokawa
		SGMR = Sagamore Hill	UPIC = Upice

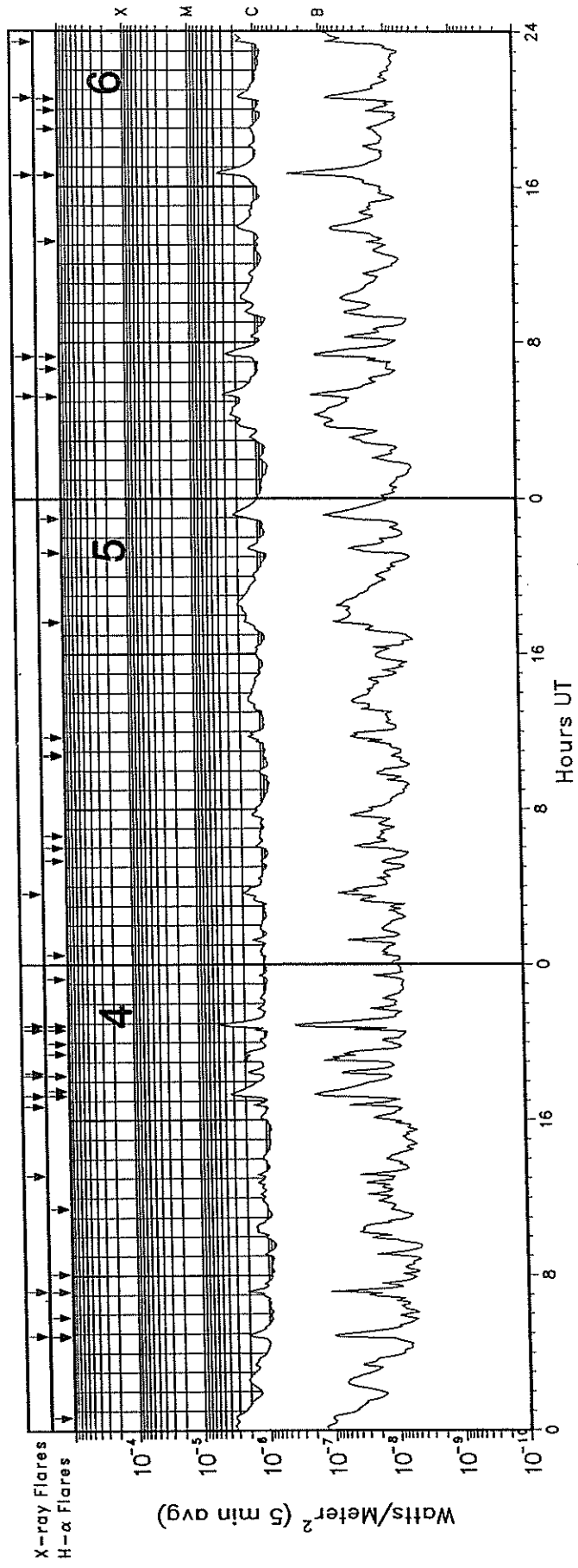
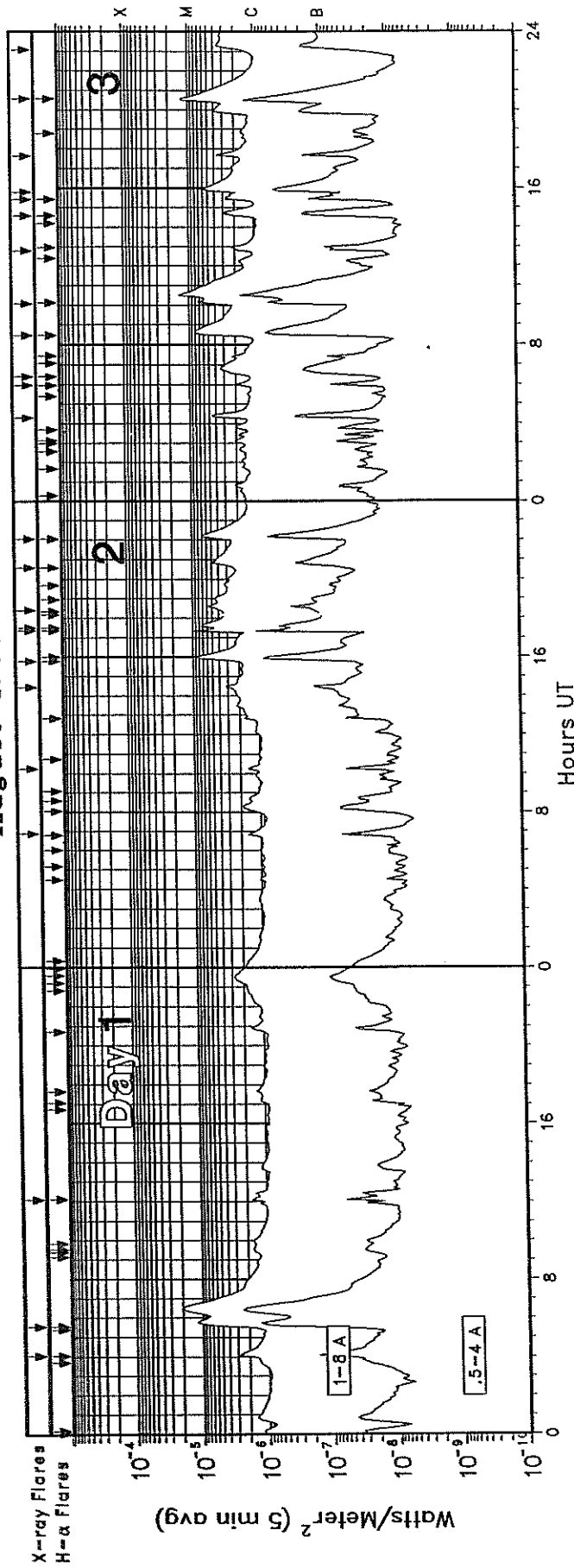
Explanation of Type Code:

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

RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Ottawa, Canada 2800 MHz; Hiraio, Japan 500 and 200 MHz; and Toyokawa, Japan 9400, 3750, 2000 and 1000 MHz.

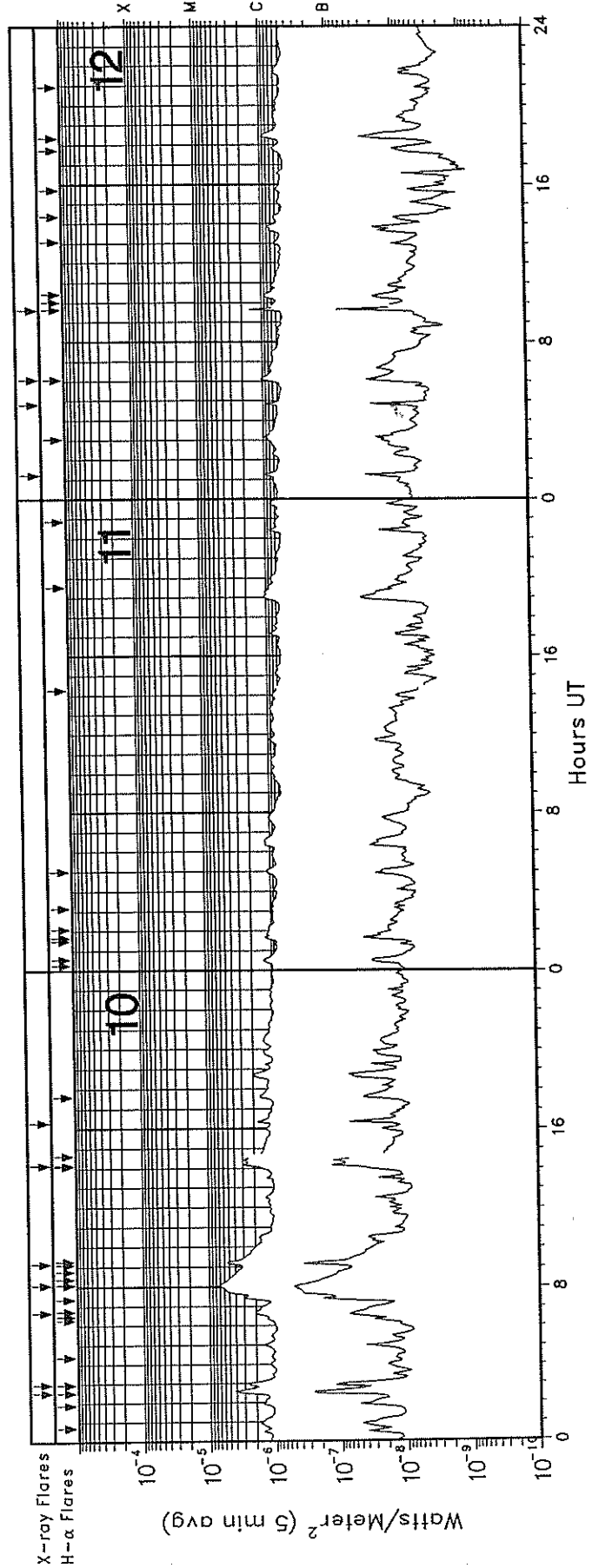
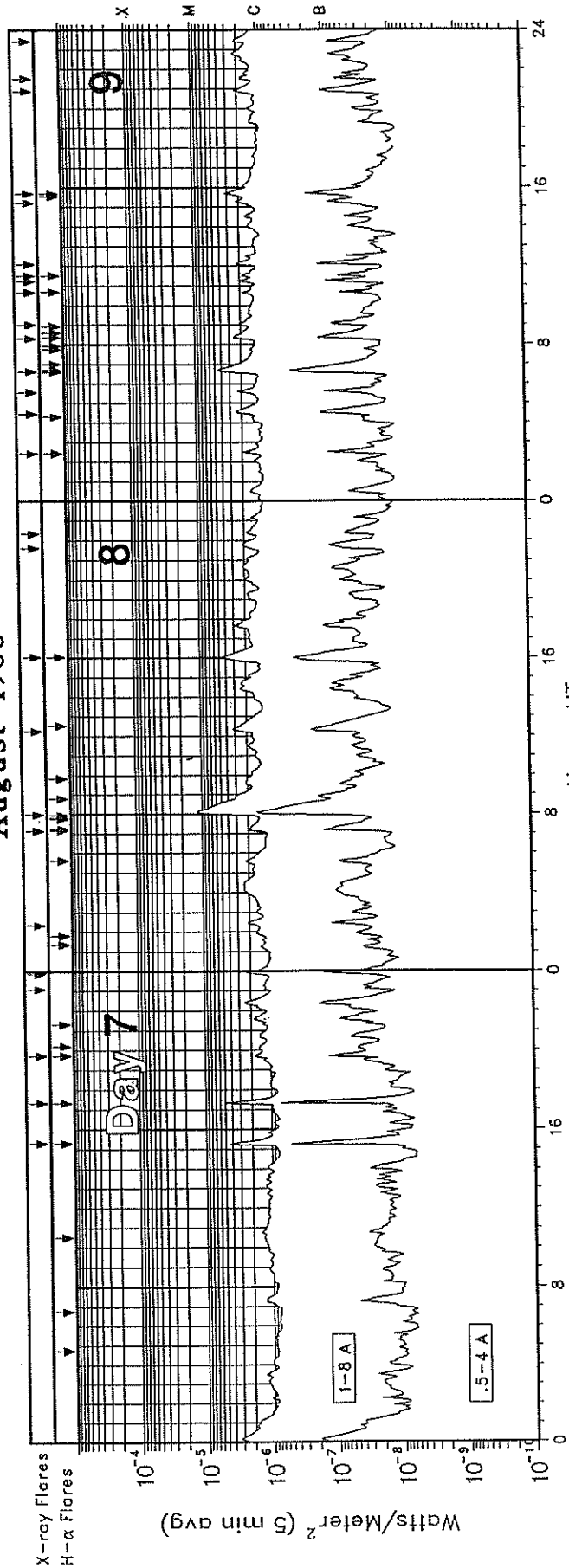
GOES-7 X-RAY DETECTOR

August 1988



GOES-7 X-RAY DETECTOR

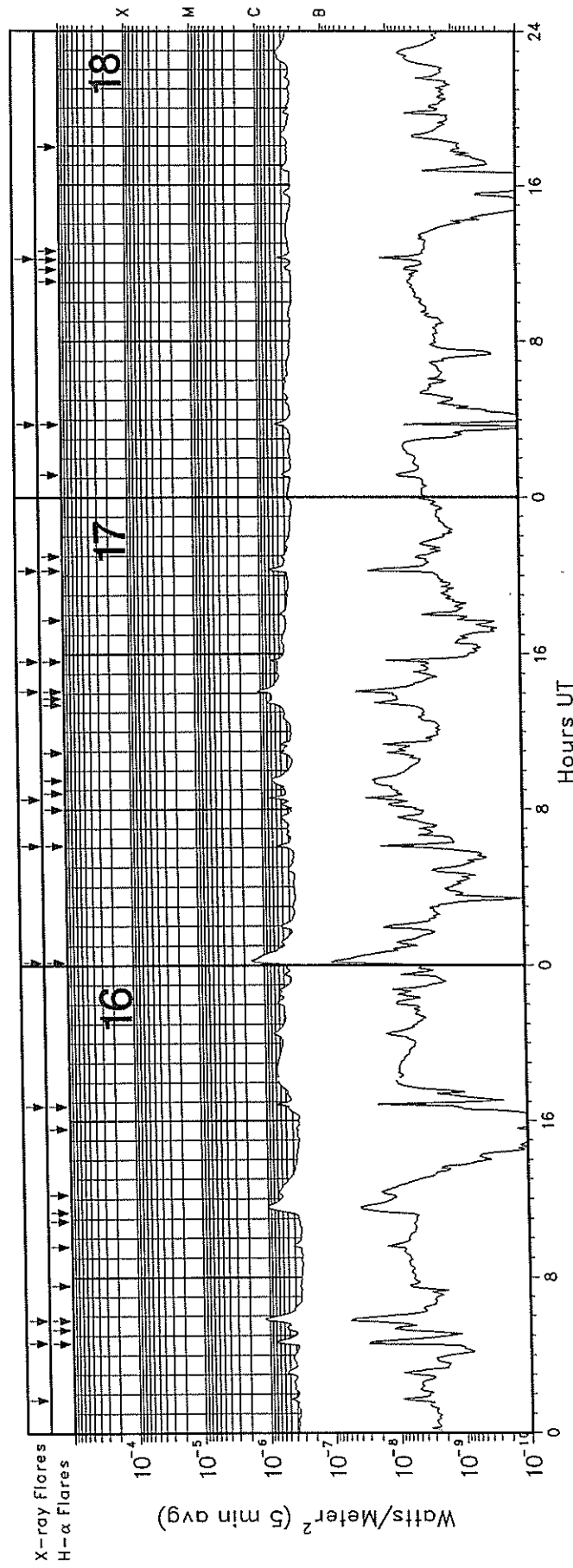
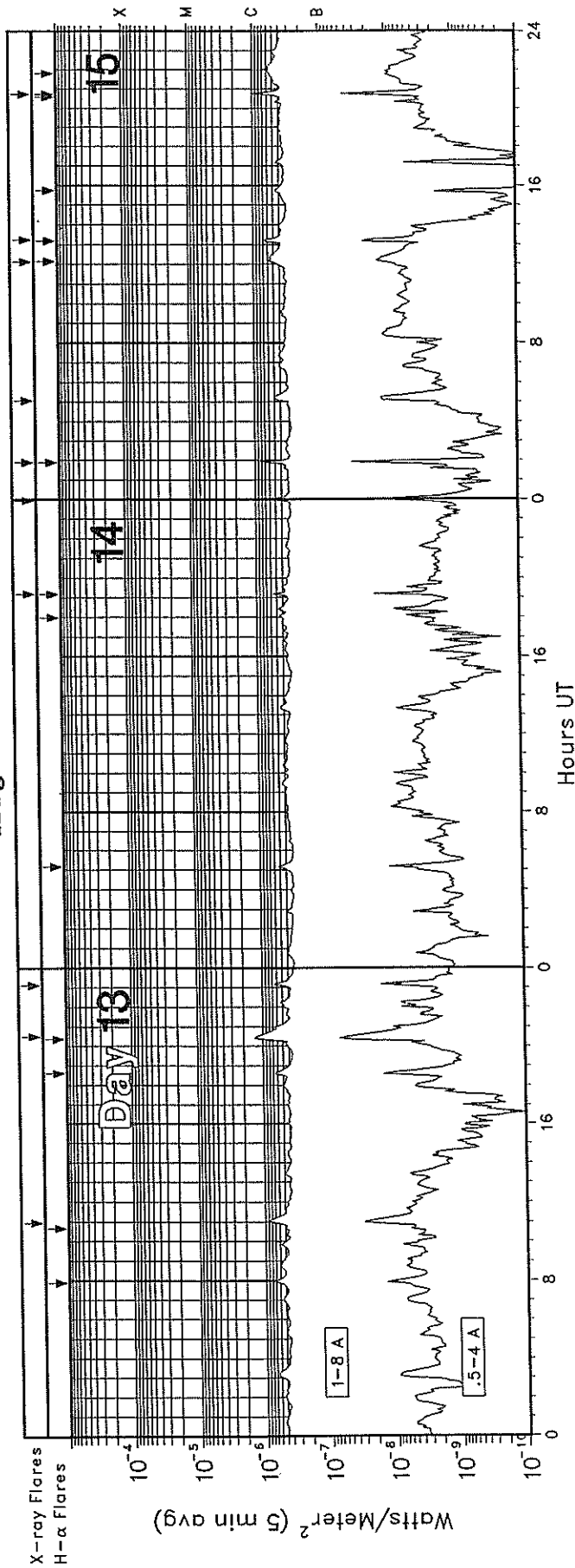
August 1988



GOES-7 X-RAY DETECTOR

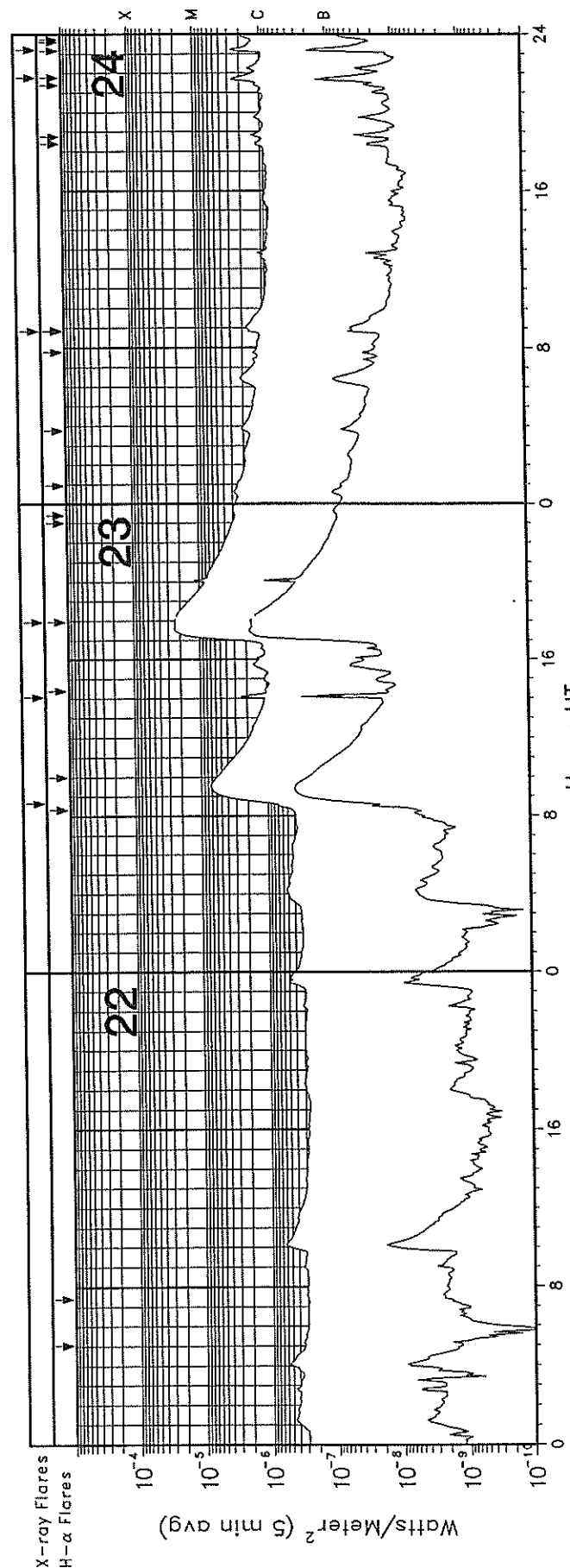
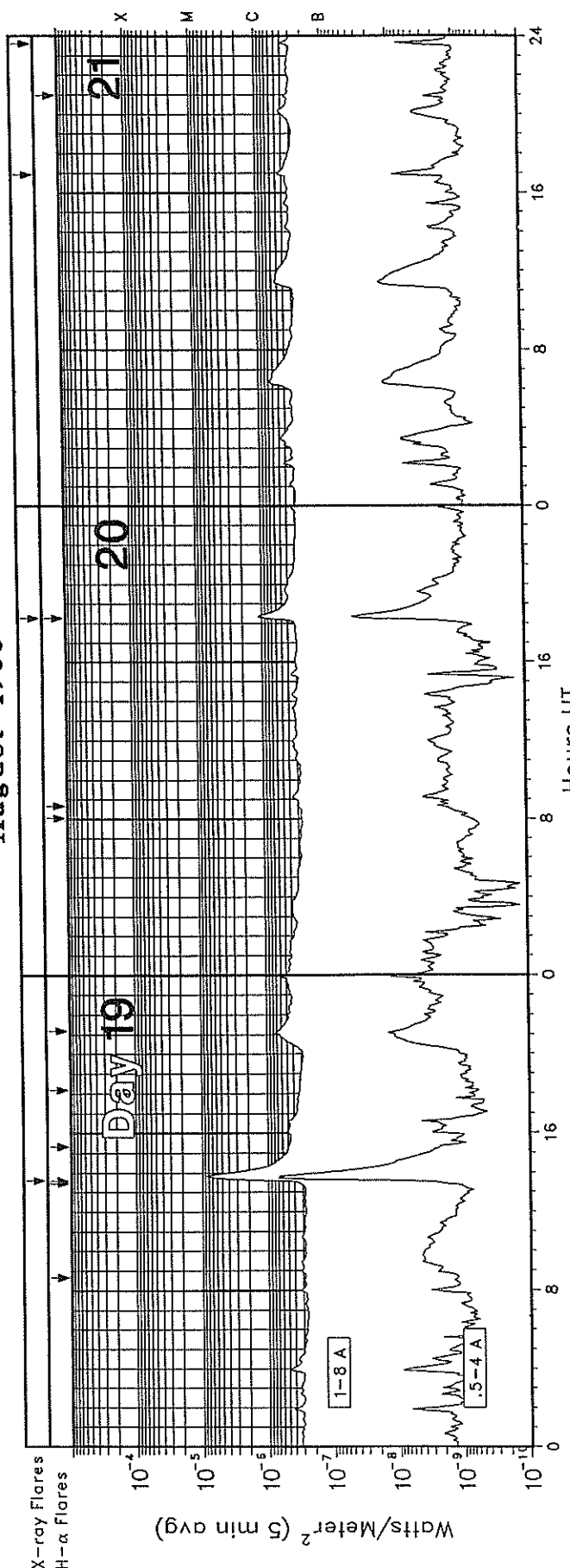
August 1988

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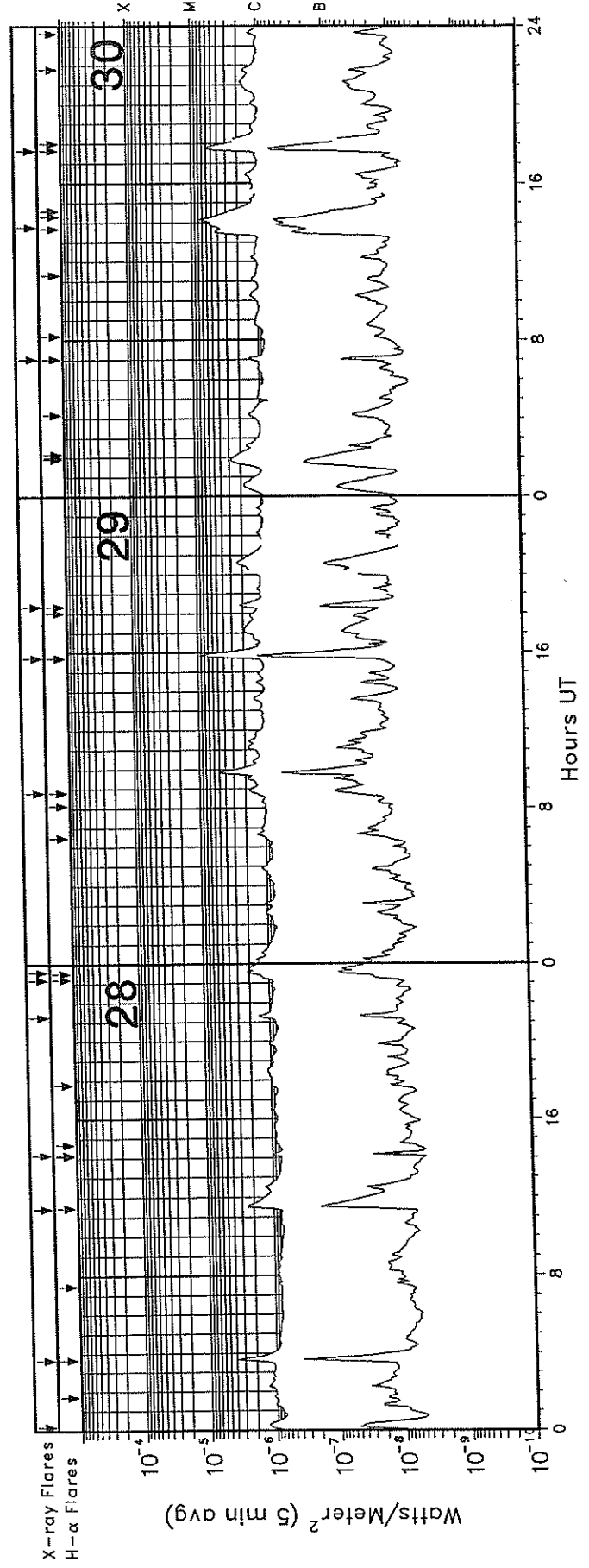
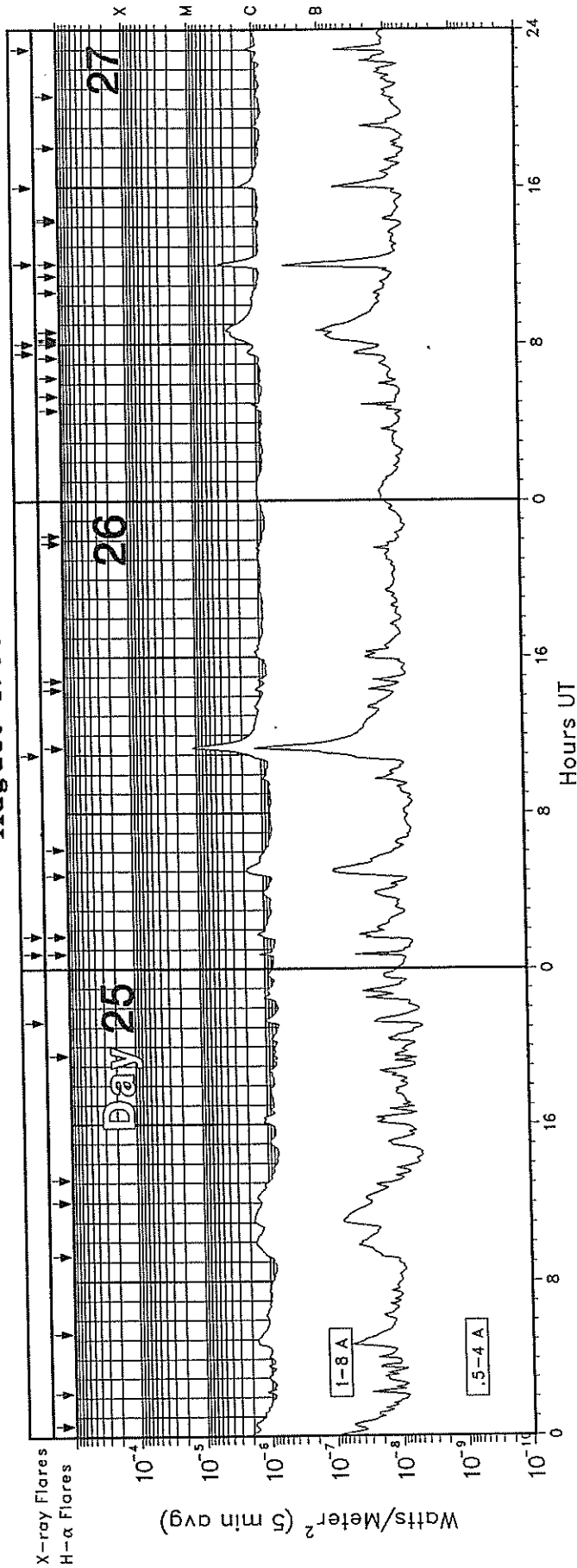
GOES-7 X-RAY DETECTOR

August 1988



GOES-7 X-RAY DETECTOR

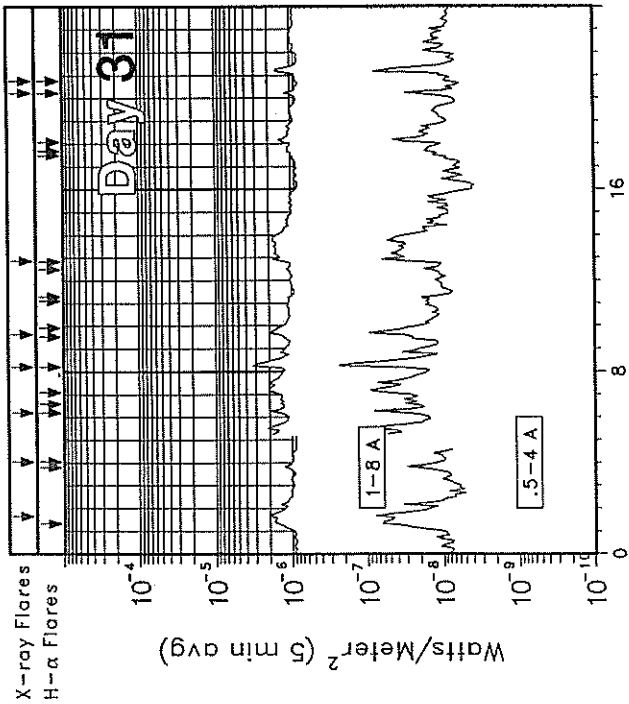
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GOES-7 X-RAY DETECTOR

August 1988



GOES SOLAR X-RAY FLARES
Preliminary Listing

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August 1988

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
01	0403E	0404	0442D	N14	W33	SF	C2.8	5090
01	0533	0624	0708	N35	E30	1B	M2.0	5092
01	1205	1209	1213				C1.9	
02	0652E	0658U	0706	N15	W46	SF	C1.5	5090
02	1015	1018	1023				C1.6	
02	1427	1431	1433				C3.9	
02	1548E	1557	1634D	N14	W55	1N	C9.5	5090
02	1721E	1724	1805D	N31	E10	1B	M1.7	5092
02	1730E	1733	1810D	N13	W56	SN	C7.5	5090
02	1824E	1834	1852D	N14	W62	SF	C6.5	5090
02	2035E	2040	2116D	N15	W54	SF	C5.7	5090
02	2203E	2211	2248D	N15	W59	SB	C7.8	5090
02	2204E	2205	2215D	N31	E07	SN	C5.1	5092
03	0418	0425	0434				C4.8	
03	0558	0601	0606				C2.1	
03	0624E	0639	0742D	N14	W61	SN	C3.3	5090
03	0829E	0832	0907D	N15	W70	2N	C8.3	5085
03	1005	1034	1108				M1.5	
03	1248	1303	1306				C2.6	
03	1435E	1441	1512D	N14	W67	SF	C3.0	5090
03	1525E	1542	1546D	N19	W68	SN	C2.9	5090
03	1548	1557	1614				C6.1	
03	1738	1744	1749				C3.8	
03	2034	2034U	2104D	N14	W64	SN	M1.3	5090
03	2305E	2313	2330D	N15	W70	1F	C3.5	5090
04	0453E	0453	0504D	N14	W75	SF	C2.2	5090
04	0711E	0712	0722D	N31	W13	SF	C2.2	5092
04	1309	1312	1315				C1.5	
04	1643	1647	1653				C1.5	
04	1716E	1717	1729D	N32	E78	SF	C3.5	5100
04	1819E	1906	1938D	N30	W20	SF	C2.8	5092
04	1826E	1828	1838D	N29	W20	SF	C2.0	5092
04	2040	2042U	2045D	N25	W51	SF	C1.6	5096
04	2052	2057U	2120	N27	W26	SF	C5.5	5092
05	0337	0342	0348				C2.0	
06	0518E	0522	0537D	N31	E55	SF	C3.3	5100
06	0718	0728	0738				C2.9	
06	1635E	1638	1722D	N28	W45	SF	C3.8	5092
06	2035E	2039	2102D	N30	E48	SF	C1.7	5100
06	2327	0012	0033				C3.2	
07	1518E	1521	1535D	N25	W62	SF	C5.5	5092
07	1720E	1721	1737	N26	W61	SF	C5.9	5092
07	1944E	1948	1952D	N28	W60	SF	C2.0	5092
07	2305	2308	2312				C1.3	
07	2352	2359	0004				C2.3	
08	0220	0235	0243				C2.3	
08	0708	0711	0731				C2.1	
08	0758E	0803	0856	N29	W65	SF	M1.3	5092
08	1215	1221	1232				C3.2	
08	1603	1605	1611D	N23	E22	SF	C4.5	5099
08	2136	2148	2204				C2.1	
08	2220	2225	2231				C1.9	
09	0225	0233	0238				C2.0	
09	0427E	0431	0457D	S14	W43	SN	C2.5	5101
09	0533	0537	0542				C2.4	
09	0637E	0646	0714D	N25	E63	1N	C4.9	5106
09	0818	0822	0838				C2.5	
09	0901	0905	0908				C2.5	
09	1040	1043	1045				C2.2	
09	1113	1116	1121				C2.4	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
09	1130	1134	1137					C2.0
09	1205	1209	1214					C2.8
09	1512	1518	1526					C2.1
09	1540E	1541	1602	N22	E09	SF	C3.3	5099
09	2052	2056	2101					C2.3
09	2131	2134	2139					C2.2
09	2325	2329	2338					C2.2
10	0232E	0234	0239D	N22	W01	SF	C4.9	5099
10	0258	0300U	0310	S15	W53	SF	C3.2	5101
10	0640E	0641	0705D	N23	W02	SF	C2.1	5099
10	0805E	0809	0817D	S15	W57	SF	C7.2	5101
10	0910	0915	0918					C7.0
10	1409E	1411	1415D	N16	E38	SF	C3.5	5105
10	1618	1622	1627					C1.8
12	0113	0118U	0121					C1.0
12	0448	0449U	0455					B9.3
12	0604E	0607U	0612D	N30	W23	SF	C1.0	5100
12	0938	0942U	0944					C2.3
13	1057	1107	1117					B8.5
13	2030E	2030	2053	N26	W51	SF	C1.3	5099
13	2307	2312	2318					B7.0
14	1911E	1912	1921D	N26	W10	SF	B7.1	5106
14	2357	0002	0008					B6.4
15	0154E	0155	0206D	N26	W14	SF	C1.0	5106
15	0504	0517	0526					B5.0
15	1207	1210	1229					B6.2
15	1314E	1314	1346	S25	W15	SF	B7.8	5108
15	2043E	2044	2059D	N15	W32	SF	C1.1	5105
16	0142	0146	0149					B5.5
16	0438E	0439	0449D	N16	W37	SF	B8.3	5105
16	0547E	0549	0554D	S26	W26	SF	C1.2	5108
16	1646E	1654	1707D	N17	W43	SF	B7.7	5105
17	0010E	0012	0043D	S20	W33	SF	C1.6	5108
17	0607E	0607	0611D	N15	W51	SF	B7.1	5105
17	0832	0837	0842					B8.1
17	1406E	1407	1415D	N26	W46	SF	C1.2	5106
17	1539E	1542	1552D	S21	W41	SF	B7.6	5108
17	2016E	2017	2038D	N25	W50	SF	B8.1	5106
18	0346E	0348	0357D	N23	E07	SF	B6.1	5109
18	1213	1218	1222					B4.9
19	1337	1342	1428	N24	W75	1B	C8.9	5106
20	1816E	1817	1827D	S18	W77	SF	C1.1	5108
21	1656	1659	1708					B5.1
21	2337	2341	2346					B4.3
23	0840E	0856	0953	N17	E31	1F	C7.2	5122
23	1404	1409	1413					C3.0
23	1757E	1800	1831D	N24	E90			M2.4
24	0851E	0905	0935D	N21	W07	SF	C2.0	5117
24	2147E	2147	2203D	N20	W17	SF	C2.7	5117
24	2313E	2314	2331D	N20	W17	SF	C3.8	5117
25	2115	2124	2134					C1.0
26	0046E	0048	0056D	N20	W30	SF	C1.4	5117
26	0140E	0147	0200D	S23	E70	SF	C1.3	5126

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GOES SOLAR X-RAY FLARES
Preliminary Listing

August 1988

Start Day	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
26	1058E	1112	1130D	S20 E66	SF	M1.2	5126
27	0732E	0732	0741D	N14 E20	SF	C1.5	5130
27	0800E	0840	0901D	N14 E20	SF	C3.1	5130
27	1205E	1206	1229D	S19 E76	SF	C4.0	5131
27	1558	1604	1614			C1.6	
27	2259	2304	2309			C1.4	
28	0011	0015	0027			C1.4	
28	0339		0350	S19 E72	SN	C4.5	5131
28	1126	1134	1150			C2.6	
28	1410E	1412	1417D	N15 W50	SF	C1.0	5115
28	2116E	2119	2124D	N19 W78	1F	C1.8	5127
28	2311E	2314	2337D	S16 E55	SN	C2.6	5131
28	2335E	2335	2339	N18 E35	SF	C2.4	5128

Start Day	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
29	0848E	0951	1031D	S16 E57	SN	C5.3	5131
29	1544E	1550	1609D	S16 E54	1N	C9.7	5131
29	1821E	1825	1846D	S18 E52	1N	C2.4	5131
30	0702E	0705	0718D	S21 E43	SF	C1.8	5131
30	1346E	1409	1418D	S21 E42	SF	C9.7	5131
30	1739E	1742	1811D	S21 E40	SN	C6.3	5131
31	0139E	0141	0148D	N20 E08	1F	C2.2	5128
31	0403E	0510	0524D	N22 E06	1F	C4.4	5128
31	0613E	0613	0619D	N22 E09	SF	C2.1	5128
31	0814E	0817	0834D	N22 E08	SF	C3.6	5128
31	0939	0944	0951			C2.0	
31	1253E	1255	1306D	N19 E05	SF	C1.8	5128
31	2015E	2016	2020D	S17 E27	SF	C1.3	5131
31	2046E	2049U	2142	S15 E25	SF	C1.9	5131

Preliminary GOES Satellite Data
Daily Average X-ray Background
September 1987 - August 1988

Day	1987				1988							
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1	B1.1	A6.8	B2.2	A7.6	B2.0	B2.5	B1.0	B4.4	B1.9	B7.5	B8.4	B9.4
2	B1.3	A6.8	B3.8	A8.3	B1.4	B2.5	A8.5	B3.5	B2.6	B6.6	B7.1	B9.8
3	B1.3	A7.7	B3.4	A5.2	B4.6	B1.9	B1.1	B3.7	B3.7	B7.1	B9.7	C1.1
4	B1.3	B1.2	B3.4	A4.8	B2.4	B1.5	B1.8	B3.5	B5.1	B9.5	B6.3	B8.6
5	B1.4	B1.1	B2.1	A5.3	B2.3	B1.7	B1.6	B4.2	B4.1	B6.0	B6.4	B8.3
6	B1.4	B1.0	B2.1	A7.8	B2.5	B1.5	B1.4	B4.3	B2.9	B4.8	B6.5	B7.9
7	B2.7	B1.1	B1.7	A8.5	B2.5	B2.4	B1.6	B3.8	B3.1	B5.6	B6.8	B8.2
8	B2.2	B1.7	B1.2	A9.1	B2.7	B1.8	B1.6	B3.9	B2.5	B5.2	B7.0	C1.1
9	B1.6	B2.1	A8.8	B1.4	B2.3	B1.8	B1.6	B3.2	B1.8	B6.4	B7.7	C1.0
10	B1.7	B2.0	A8.8	A9.4	B3.0	B1.5	B1.8	B3.1	B1.6	B4.9	B9.1	C1.0
11	B1.6	B1.8	B1.9	B2.3	B2.1	B1.6	B2.8	B4.5	B1.6	B4.3	B7.7	B6.7
12	B1.3	B1.7	B1.4	B3.2	B3.1	B1.8	B3.4	B5.5	B1.5	B3.7	B4.9	B5.1
13	B1.2	B2.3	B1.4	B1.8	--	B1.8	B3.4	B4.4	B1.4	B3.0	B5.3	B3.9
14	A9.5	B2.1	A8.2	B1.3	B4.0	B1.5	B2.5	B6.0	B1.3	B2.8	B5.0	B3.1
15	A7.1	B2.2	A9.7	B1.4	B3.9	B1.4	B6.0	B7.4	B1.1	B3.3	B4.7	B3.2
16	A4.6	B2.6	B1.1	B1.2	B5.1	B1.2	B6.9	B9.2	B1.3	B3.7	B5.5	B3.0
17	A5.2	B2.1	B1.1	A9.5	B3.6	B1.2	B4.6	B5.3	B2.0	B3.6	B4.8	B3.2
18	A3.8	B2.6	B1.6	A8.9	B2.2	B1.6	B3.0	B3.9	B3.2	B4.0	B6.7	B2.8
19	A4.7	B2.4	B2.7	A7.3	B2.5	B1.4	B3.3	B5.5	B2.9	B2.6	B9.2	B2.7
20	A7.6	B1.7	B5.2	A7.1	B2.3	B1.2	B4.4	B5.1	B3.2	B2.6	B4.5	B2.7
21	A5.9	B1.5	B3.5	A9.8	B2.4	B1.3	B3.8	B4.7	B4.1	B3.5	B6.5	B2.8
22	A5.0	B1.6	B3.6	B1.5	B2.0	A9.9	B3.7	B3.1	B5.8	B4.6	B7.2	B2.7
23	A3.4	B1.4	B3.0	B1.0	B2.0	B1.0	B6.0	B2.2	B8.8	B9.8	B6.1	B7.4
24	A3.7	B1.4	B2.9	B2.3	B3.1	A9.0	B6.8	B2.6	B4.5	C1.2	B6.7	B7.7
25	A3.0	B1.8	B2.9	B4.9	B1.9	A9.0	B6.1	B2.0	B5.3	---	B7.7	B7.3
26	A2.7	B1.9	B2.9	B4.7	B2.2	B9.5	B4.5	B1.5	B3.8	C2.7	B8.0	B7.4
27	A7.6	B2.5	B2.0	B3.4	B4.6	B1.0	B4.0	B1.1	B3.7	C1.1	B8.9	B8.1
28	B1.0	B2.7	B1.7	B2.3	B5.1	B1.2	B3.5	B1.1	B5.0	C1.6	B9.4	B7.3
29	A9.8	B1.9	B1.7	B1.8	B4.4	B2.0	B3.5	B1.1	B7.2	C1.5	B9.9	B9.2
30	A7.0	B2.7	B1.1	B2.5	B2.7		B3.3	B1.6	B8.0	B8.1	B7.8	B9.4
31		B2.7		---	B2.1		B4.2		B8.5		B9.4	B8.9

MASS EJECTIONS FROM THE SUN

AUGUST 1988

Sta	Day	Observed UT			Location		Freq or Wavelength	Kind of Event		
		Start	Max	End	RA ^o	R/R _o				
SVTO	Aug 01	[	0623		0627		Meter	II		
CULG	Aug 01		0623		0626		Meter; dekameter	II Single burst		
CULG	Aug 01		0623.0		0727.0		Meter	II		
WEIS	Aug 01		0619.1		0625.3		150-30 MHz	II Herringbone		
KHAR	Aug 01		0750 E		0815	019	0.43	H-alpha	S	
KHAR	Aug 01			0908		0933	340	0.36	H-alpha	S
KHAR	Aug 01			0935		0958	263	0.81	H-alpha	S
KHAR	Aug 01			0955		1004	139	0.70	H-alpha	S
KHAR	Aug 02		0920 E		0936	D 004		0.35	H-alpha	S
KHAR	Aug 02		1055 E		1105	D 254		0.98	H-alpha	S
PALE	Aug 02	[	1725.0		1738.0				Meter	II
KHAR	Aug 02		1725.0		1738.0				H-alpha	II
WEIS	Aug 02		1725		1737.0				96-30 MHz	II Herringbone
KHAR	Aug 09		0655 E		0758	D 064		0.88	H-alpha	S
KHAR	Aug 09			0725		0740	D 074	0.82	H-alpha	S
KHAR	Aug 09			0730 E		0740	070	0.92	H-alpha	S
KHAR	Aug 09			0750 E		0800	D 070	0.92	H-alpha	S
KHAR	Aug 09			0941 E		1045	D 066	0.90	H-alpha	S
ABST	Aug 10		0721 E	0725 U	0734	D 296		100	H-alpha	SP
KHAR	Aug 13			0805		0830	290	1.00	H-alpha	S
KHAR	Aug 16			0723		0728	214	0.65	H-alpha	S
KHAR	Aug 16			0727		0740	302	0.50	H-alpha	S
KHAR	Aug 17			1035		1053	075	1.00	H-alpha	S
KHAR	Aug 20		0733 E		0745	D 075		0.85	H-alpha	S
KHAR	Aug 20		0803 E		0806	D 289		0.98	H-alpha	S
KHAR	Aug 20			0843		0849	065	0.72	H-alpha	S
KHAR	Aug 21		0827 E		0900	D 080		0.75	H-alpha	S
KHAR	Aug 21			1000		1030	D 080	0.75	H-alpha	S
KHAR	Aug 22		1005 E		1020	112		1.00	H-alpha	S
KHAR	Aug 23		0700 E	0721	0755	111-113		1.00-1.08	H-alpha	S
KHAR	Aug 23			0920		0940	D 111-113	1.00-1.08	H-alpha	S
KHAR	Aug 23		1020 E		1035	111		1.00	H-alpha	S
PALE	Aug 23	[	1707.0		1712.0				Meter	II
KHAR	Aug 23		1707.0		1712.0				H-alpha	II
SGMR	Aug 23		1707.0		1718.0				Meter	II
KHAR	Aug 23		1707.0		1718.0				H-alpha	II
ABST	Aug 24		0426 E	0800 U	0806	D 110		100	H-alpha	SP
SVTO	Aug 24				0847.0				Decimeter	II
ABST	Aug 26		0455 E	0455 U	0627	D 103		100	H-alpha	SP
SGMR	Aug 26	[	1131.0		1149.0				Meter	II
WEIS	Aug 26		1131.2		1149.8				86-30 MHz	II Herringbone
SVTO	Aug 26		1132.0		1142.0				Meter	II
KHAR	Aug 31		0930 E		0948	D 126		0.59	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES

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

TYPE OF EVENT

A = eruptive active region prominence
 CB = coronal cloud bubble
 D = coronal depletions
 E = coronal enhancement
 EL = coronal expanding loop
 II = Type II radio burst
 IVm = moving Type IV radio burst
 Q = eruptive quiescent prominence
 R = coronal ray or streamer

REPORTING STATIONS

ABST = Abastumani
 CULG = Culgoora
 KHAR = Kharkov
 PALE = Palehua
 SGMR = Sagamore Hill
 SVTO = San Vito
 WEIS = Weissenau

S = flare-surge if there is a known flare association
 SP = flare-spray if there is a known flare association
 * = movement may be caused by ionospheric refraction

ACTIVE PROMINENCES AND FILAMENTS

AUGUST 1988

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Sta Reg#	Remarks
01	ASR	0115E	0943D	N28	W89	07 25.2			8	9	E	LEAR 5093	
01	ADF	0240E	0943D	S21	W35	07 29.5	1	07	9	9	E	LEAR 5084	
01	ADF	0524E	1647D	S22	W35	07 29.6	1	09	9	9	E	SVTO 5084	
01	ADF	0529E	1647D	N16	W45	07 28.9	1	15	9	9	E	SVTO 5090	
01	AFS	0530E	1647D	N14	W28	07 30.2		03	9	9	E	SVTO 5090	
01	ADF	0611E	1647D	S26	E35	08 4.0	1	07	9	9	E	SVTO 5097	
01	DSD	0716E	0735	N26	E21	08 2.9	1				C	CATA	
01	DSD	0750E	0815	N30	E10	08 2.1	1				V	KHAR	
01	ADF	0820E	0856	S18	W47	07 28.9	1				V	KHAR	
01	DSD	0908	0933	N25	W08	07 31.8	1				V	KHAR	
01	BSL	0916E	0931	S23	W90	07 25.5	2				C	CATA	
01	DSD	0935	0958	N15	W55	07 28.3	1				V	KHAR	
01	DSD	0955	1004	S27	E33	08 4.0	1				V	KHAR	
01	SDF	1145E	0637D	S32	E06	08 2.0	2				C	CATA	
01	ADF	1316E	0006D	S20	W41	07 29.5		08	9	9	E	HOLL 5084	
01	ADF	1329E	0006D	N25	W10	07 31.8		02	9	9	E	HOLL 5096	
01	AFS	1412E	1557D	S25	E29	08 3.8		02	8	6	E	RAMY 5097	
01	AFS	1412E	1559D	N14	W40	07 29.7		02	8	6	E	RAMY 5090	
01	ADF	1412E	2152D	N15	W52	07 28.7	2	07	9	9	E	RAMY 5090	
01	AFS	1412E	2152D	N23	W11	07 31.7		03	9	9	E	RAMY 5096	
01	DSD	1412E	2152D	N29	E16	08 2.8		02	9	9	E	RAMY 5092	
01	ADF	1412E	2152D	S21	W42	07 29.5	2	10	9	9	E	RAMY 5084	
01	ADF	1412E	2152D	S31	W36	07 29.8	2	12	9	9	E	RAMY 5084	
01	AFS	1922E	2152D	S25	E26	08 3.8		02	9	9	E	RAMY 5097	
01	SDF	2005E	2031D	N27	E13	08 2.8		05	0	0	E	HOLL 5092	
01	SDF	2200E	1734D	S34	W04	08 1.6		14	0	0	E	PALE	
01	AFS	2345E	0945D	N13	W46	07 29.6		02	9	9	E	LEAR 5090	
02	AFS	0000E	0945D	N24	W17	07 31.7		02	9	9	E	LEAR 5096	
02	SDF	0006E	1704D	S19	E02	08 2.1		14	0	0	E	HOLL	
02	AFS	0525E	0945D	S25	E22	08 3.9		02	9	9	E	LEAR 5097	
02	SDF	0643E	0037D	N17	W37	07 30.6		18	0	0	E	LEAR	
02	SDF	0643E	0037D	N23	W17	08 1.0		16	0	0	E	LEAR	
02	SDF	0643E	0037D	N24	W04	08 2.0		16	0	0	E	LEAR	
02	SDF	0643E	0037D	N30	W24	07 31.4		18	0	0	E	LEAR	
02	BSL	0830	0838D	S77	W90	07 25.1	1-				C	CATA	
02	DSD	0920E	0936D	N25	E02	08 2.5	1				V	KHAR	
02	DSD	1055E	1105D	S16	W85	07 27.1	1				V	KHAR	
02	APR	1710E	2309D	N18	E90	08 9.6	2		9	9	E	HOLL	
02	AFS	1710E	2309D	N25	W26	07 31.7	1	02	8	9	E	HOLL 5096	
02	ADF	1710E	2309D	N26	E00	08 2.7	1	04	9	9	E	HOLL 5092	
02	ADF	1710E	2309D	S19	W57	07 29.5	1	21	9	9	E	HOLL 5084	
02	ASR	1710E	1930D	N21	W90	07 26.9			9	9	E	RAMY 5089	
02	DSD	1723	1830D	N30	W10	08 1.9		07	9	9	E	RAMY 5092	Flare Associated
02	DSD	1729E	1754	N30	E12	08 3.7		08	9	9	E	HOLL 5092	Flare Associated
02	DSD	1733E	1736D	N31	E10	08 3.5		04	9	9	E	PALE 5092	Flare Associated
02	ASR	1819E	0450D	N24	E90	08 9.7			9	9	E	PALE	
02	BSD	1834E	1848D	N18	W73	07 28.3		06	9	9	E	HOLL 5058	Flare Associated
02	ADF	1937E	0450D	S20	W58	07 29.5	1	24	9	9	E	PALE 5084	
02	BSD	2211E	2230D	N31	E07	08 3.5		05	9	9	E	HOLL 5092	Flare Associated
02	DSD	2218E	2248D	N31	E07	08 3.5		04	9	9	E	PALE 5092	Flare Associated
02	AFS	2324E	0929D	N18	W55	07 29.9		05	9	9	E	LEAR 5090	
03	ASR	0025E	0929D	N21	E90	08 9.9			9	9	E	LEAR	
03	ASR	0025E	0929D	N32	E90	08 10.1			9	9	E	LEAR	
03	ADF	0458E	0610D	N34	E00	08 3.2	1	06	9	9	E	SVTO 5092	
03	ADF	0530E	1709D	N13	W77	07 28.5	1	13	9	9	E	SVTO 5085	
03	DSD	0609E	1530D	N24	W29	08 1.0		03	9	9	E	SVTO 5096	
03	AFS	0730E	0929D	N30	W02	08 3.1		03	9	7	E	LEAR 5092	
03	BSL	0827E	0837	N24	E90	08 10.3	1				C	CATA	
03	AFS	0940E	1709D	N32	W02	08 3.2		04	9	9	E	SVTO 5092	
03	BSL	1125	1135	S88	E90	08 11.9	1-				C	CATA	
03	ASR	1232E	1614D	N25	E86	08 10.2			9	9	E	RAMY 5099	
03	ADF	1333E	1614D	N28	W07	08 3.0	2	05	9	9	E	RAMY 5092	
03	AFS	1333E	1614D	N30	W04	08 3.2		03	9	9	E	RAMY 5092	
03	ASR	1500E	1758D	S18	W77	07 28.9			9	9	E	HOLL 5084	
03	AFS	1502E	1804D	S18	W27	08 1.6		02	9	9	E	HOLL	
03	AFS	1510E	1614D	S18	W27	08 1.6		02	9	9	E	RAMY 5098	
03	ASR	1935E	1944D	N23	E90	08 10.7			7	7	E	HOLL 5099	
03	ASR	2126E	0041D	S21	W70	07 29.6			9	9	E	PALE 5084	

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ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Sta Reg#	Remarks
04	ASR	0113	0925D	S23	W90	07 28.2			9	9	E	LEAR 5084	
04	BSL	0431	0728	S18	W90	07 28.4	1				C	ABST	
04	APR	0431	0728	S41	W90	07 27.9	1				C	ABST	
04	AFS	0503E	1634D	N25	W42	07 31.9		03	9	9	E	SVTO 5096	
04	BSD	0805E	0818D	S20	W76	07 29.6		09	5	6	E	SVTO 5084	
04	BSL	0815E	0819	S25	W90	07 28.5	1				C	CATA	
04	ADF	0825E	1634D	N29	W19	08 2.9	1	07	9	9	E	SVTO 5092	
04	BSL	1016	1025	N10	W90	07 28.8	1-				C	CATA	
04	BSL	1025	1040D	S26	W90	07 28.5	1-				C	CATA	
04	BSL	1031	1035	N14	W90	07 28.7	1-				C	CATA	
04	BSL	1050E	1100	N12	W90	07 28.8	1-				C	CATA	
04	DSD	1246E	2033D	N25	W31	08 2.1		02	9	9	E	RAMY 5092	
04	AFS	1246E	2142D	N26	W24	08 2.7		02	8	8	E	RAMY 5092	
04	AFS	1246E	2142D	N28	W20	08 3.0		02	9	9	E	RAMY 5092	
04	AFS	1736E	1903D	S14	E19	08 6.2		02	9	9	E	HOLL 5101	
04	DSD	1802E	1951D	S14	E19	08 6.2		02	9	9	E	RAMY	
04	ASR	1859E	1903D	N14	W83	07 29.6			7	8	E	HOLL 5090	
04	AFS	2301E	0301D	S13	E17	08 6.2		02	9	9	E	PALE 5101	
04	AFS	2328E	0934D	S14	E16	08 6.2		03	7	5	E	LEAR 5101	
05	ASR	0200E	0934D	N24	W90	07 29.2			8	5	E	LEAR 5084	
05	AFS	0245E	0934D	N29	W23	08 3.3		02	9	6	E	LEAR 5092	
05	BSL	0434	0502	S44	W90	07 28.8	1				C	ABST	
05	BSL	0434	0801	N18	W90	07 29.4	1				C	ABST	
05	BSL	0434	0801	N55	E90	08 13.0	1				C	ABST	
05	BSL	0434	0801	S21	W90	07 29.4	1				C	ABST	
05	BSL	0702	0730	S22	W90	07 29.5	1-				C	CATA	
05	BSL	0730	0740	S24	W90	07 29.4	1-				C	CATA	
05	BSL	0740	0740D	S52	W90	07 28.7	1-				C	CATA	
05	BSL	0811E	0815	S22	W90	07 29.5	1-				C	CATA	
05	BSL	1005	1046	S22	W90	07 29.6	1-				C	CATA	
05	BSL	1011	1022	S28	W90	07 29.5	1-				C	CATA	
05	SDF	1140E	0627D	N55	E40	08 8.9	1				C	CATA	
05	AFS	1220E	2241D	N27	W34	08 2.9		03	9	9	E	RAMY 5092	
05	ASR	1228E	2241D	N14	W90	07 29.8			8	9	E	RAMY 5090	
05	ASR	1440E	2039D	S22	W90	07 29.8			9	9	E	RAMY 5084	
05	AFS	1448E	2241D	S14	E06	08 6.1		03	9	9	E	RAMY 5101	
05	ADF	1500E	2241D	N29	W29	08 3.3	1	09	9	9	E	RAMY 5092	
05	AFS	1718E	2049D	N27	W36	08 2.9		02	9	9	E	HOLL 5092	
05	SDF	1835E	1735D	N10	E13	08 6.7		04	0	0	E	HOLL	
05	SDF	1835E	1735D	N27	W38	08 2.8		12	0	0	E	HOLL 5092	
05	SDF	1835E	1735D	S19	E46	08 9.3		08	0	0	E	HOLL	
05	AFS	1900E	0359D	N27	W37	08 2.9		03	9	9	E	PALE 5092	
05	AFS	2002E	2049D	S13	E03	08 6.1		02	9	9	E	HOLL 5101	
05	AFS	2014E	2241D	N24	W65	07 31.8		03	9	9	E	RAMY 5096	
05	AFS	2017E	2241D	N22	E59	08 10.4		02	9	9	E	RAMY 5099	
05	AFS	2035E	0359D	S14	E03	08 6.1		03	9	9	E	PALE 5101	
05	AFS	2036E	0359D	N24	E59	08 10.4		03	9	9	E	PALE 5099	
05	ASR	2037	2049D	N16	W89	07 30.2			9	9	E	HOLL 5090	
05	ASR	2051E	0200D	S21	W90	07 30.1			9	9	E	PALE 5084	
06	AFS	0213E	0753D	N22	E55	08 10.3		03	9	6	E	LEAR 5099	
06	AFS	0213E	0753D	S15	E01	08 6.2		02	8	4	E	LEAR 5101	
06	BSL	0506	0540	S20	W90	07 30.4	1				C	ABST	
06	BSL	0506	0540	S21	E90	08 13.1	1				C	ABST	
06	BSL	0506	0752	N23	E90	08 13.1	1				C	ABST	
06	BSL	0509	0752	N10	E90	08 13.0	1				C	ABST	
06	BSL	0509	0752	N27	W90	07 30.3	1				C	ABST	
06	BSL	0728E	0735D	N21	E90	08 13.2	1-				C	CATA	
06	BSL	0731	0752	S30	W90	07 30.3	1				C	ABST	
06	BSL	0756E	0825D	N23	E90	08 13.3	1-				C	CATA	
06	BSL	0812E	0834	N21	E90	08 13.2	1-				C	CATA	
06	BSL	0834	0846	N23	E90	08 13.3	1-				C	CATA	
06	BSL	0900E	0915	N23	E90	08 13.3	1				C	CATA	
06	BSL	0932	0956	S25	E90	08 13.4	1-				C	CATA	
06	BSL	1025	1041	N23	E90	08 13.4	1-				C	CATA	
06	ADF	1110E	1545D	N28	W43	08 3.1	1	07	9	7	E	RAMY 5092	
06	AFS	1110E	1940D	N27	W44	08 3.0		02	9	9	E	RAMY 5092	
06	ASR	1127E	1420D	S16	E90	08 13.3			9	9	E	RAMY 5102	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
06	ASR	1127E	1940D	N15	E90	08 13.3			9	9	E	RAMY		
06	AFS	1132E	1940D	S14	W07	08 5.9		03	9	9	E	RAMY	5101	
06	AFS	1132E	1940D	S15	W05	08 6.1		03	9	9	E	RAMY	5101	
06	AFS	1315E	1740D	N27	W44	08 3.1		02	9	9	E	HOLL	5092	
06	ASR	1315E	2308D	N16	E89	08 13.3			9	9	E	HOLL		
06	AFS	1315E	2308D	S15	W06	08 6.1		03	9	9	E	HOLL	5101	
06	AFS	1445E	1940D	N22	E45	08 10.1		02	9	9	E	RAMY	5099	
06	AFS	1449E	1940D	N17	W05	08 6.2		02	9	9	E	RAMY	5104	
06	AFS	1707E	0452D	N29	W44	08 3.3		02	9	9	E	PALE	5092	
06	AFS	1708E	0452D	S13	W10	08 5.9		03	9	9	E	PALE	5101	
06	ASR	1753E	0452D	N15	E88	08 13.4			9	9	E	PALE		
07	AFS	0008E	0939D	S13	W13	08 6.0		03	9	9	E	LEAR	5101	
07	ASR	0015E	0939D	N15	E88	08 13.7			9	9	E	LEAR		
07	BSL	0444	0508	N20	E90	08 14.1	1				C	ABST		
07	AFS	0530E	1645D	S16	W14	08 6.2		02	9	9	E	SVTO	5101	
07	BSL	0535	0744	N52	E90	08 14.9	1				C	ABST		
07	ASR	0555E	1645D	S17	E90	08 14.1			9	9	E	SVTO		
07	AFS	0620E	1645D	N22	E41	08 10.4		03	9	9	E	SVTO	5099	
07	BSL	0622	0630D	S76	E90	08 15.6	1-				C	CATA		
07	BSL	0650	0705	N38	W90	07 31.0	1-				C	CATA		
07	BSL	0656	0720D	N24	W90	07 31.3	1-				C	CATA		
07	BSL	0836	0915	S24	E90	08 14.3	1				C	CATA		
07	BSL	0921	0930	S26	E90	08 14.4	1				C	CATA		
07	DSD	1152E	1416D	N16	E76	08 13.2		02	9	9	E	RAMY	5105	
07	ASR	1152E	1600D	S19	E78	08 13.4			9	9	E	RAMY	5102	
07	AFS	1152E	1752D	S15	W20	08 6.0		03	9	9	E	RAMY	5101	
07	ASR	1416E	1752D	N14	E78	08 13.5			9	9	E	RAMY	5105	
07	AFS	1805E	1806D	S14	W26	08 5.8		03	9	9	E	PALE	5101	
07	AFS	1955E	0131D	S13	W25	08 5.9		03	7	8	E	HOLL	5101	
07	SDF	2121E	1710D	S34	W28	08 5.6		30	0	0	E	HOLL		
07	AFS	2322E	0947D	S12	W26	08 6.0		03	9	9	E	LEAR	5101	
07	AFS	2340E	0947D	N28	W63	08 3.1		03	9	9	E	LEAR	5092	
08	AFS	0115E	0947D	N22	E27	08 10.1		02	9	9	E	LEAR	5099	
08	ASR	0304E	0405	N28	W74	08 2.3			9	9	E	LEAR	5092	
08	ASR	0500	0915D	N28	W74	08 2.4			9	9	E	LEAR	5092	
08	AFS	0715E	1634D	N22	E23	08 10.1		03	9	9	E	SVTO	5099	
08	AFS	0719E	1634D	S14	W30	08 6.0		03	9	9	E	SVTO	5101	
08	BSL	0802E	0805	S83	E90	08 16.7	1-				C	CATA		
08	BSL	0820	0820D	N46	W90	07 31.8	1-				C	CATA		
08	SDF	0822E	0855D	S37	W28	08 6.1		33	0	0	E	LEAR		
08	BSL	1037	1037D	N33	E90	08 15.6	1-				C	CATA		
08	AFS	1430E	2140D	N22	E19	08 10.1		02	9	9	E	RAMY	5099	
08	ASR	1430E	2140D	N24	W79	08 2.5			9	9	E	RAMY	5099	
08	AFS	1430E	2140D	N26	E92	08 15.7		02	9	9	E	RAMY	5099	
08	ADF	1430E	2140D	S16	W34	08 6.0	2	04	9	9	E	RAMY	5101	
08	DSD	1440E	2140D	N22	E69	08 13.9		03	9	9	E	RAMY	5106	
08	AFS	1510E	2140D	N16	E64	08 13.5		02	9	9	E	RAMY	5105	
08	AFS	1735E	2034D	N22	E19	08 10.2		03	9	9	E	HOLL	5099	
08	SDF	1840E	2126D	S03	W53	08 4.8		20	0	0	E	PALE		
08	DSD	2050E	2140D	S14	W39	08 5.9		02	9	9	E	RAMY	5101	
08	AFS	2352E	0324D	N21	E15	08 10.1		03	9	9	E	LEAR	5099	
08	AFS	2352E	0324D	S12	W41	08 5.9		02	8	7	E	LEAR	5101	
09	AFS	0620E	1702D	N16	E56	08 13.5		04	9	9	E	SVTO	5105	
09	AFS	0620E	1702D	S14	W42	08 6.1		05	9	9	E	SVTO	5101	
09	DSD	0655E	0758D	N25	E65	08 14.3	1				V	KHAR		
09	DSD	0725	0740D	N17	E57	08 13.6	1				V	KHAR		
09	DSD	0730E	0740	N21	E68	08 14.5	1				V	KHAR		
09	BSL	0740	0752	N29	W90	08 2.3	1-				C	CATA		
09	BSL	0745	0752	N75	W90	08 1.0	1-				C	CATA		
09	DSD	0750E	0800D	N21	E68	08 14.5	1				V	KHAR		
09	ADF	0755E	1702D	N28	E59	08 13.9	1	05	9	8	E	SVTO	5106	
09	BSL	0905	0905D	N28	W90	08 2.3	1-				C	CATA		
09	BSL	0920E	0924	N28	W90	08 2.3	1-				C	CATA		
09	BSL	0930	0946	N28	W90	08 2.4	1-				C	CATA		
09	DSD	0941E	1045D	N25	E65	08 14.4	1				V	KHAR		
09	BSL	0950	0950D	N26	W90	08 2.4	1-				C	CATA		
09	BSL	1125	1136	N28	W90	08 2.4	1-				C	CATA		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
09	BSL	1144	1144D	N27	W90	08 2.5	1-				C	CATA		
09	ASR	1338E	1620D	N24	W83	08 3.1			9	9	E	RAMY 5092		
09	AFS	1401E	1620D	N16	E51	08 13.4		02	8	7	E	RAMY 5105		
09	AFS	1401E	1620D	N22	E09	08 10.3		02	8	6	E	RAMY 5099		
09	ADF	1401E	1620D	N56	E01	08 9.7	1	04	9	9	E	RAMY 5105		
09	AFS	1401E	1620D	S14	W49	08 5.9		01	8	6	E	RAMY 5101		
09	ASR	1431E	1620D	N28	W79	08 3.4			9	9	E	RAMY 5092		
09	AFS	1706E	0423D	N17	E51	08 13.6		02	9	9	E	PALE 5105		
09	ASR	1718E	0423D	N28	W90	08 2.7			7	7	E	PALE 5092		
09	ASR	2332	2338D	N90	W28	08 7.4			8	7	E	LEAR 5105		
09	AFS	2335E	0755D	N16	E46	08 13.5		03	9	9	E	LEAR 5105		
09	AFS	2335E	0820D	S13	W53	08 6.0		04	9	9	E	LEAR 5101		
10	ADF	0530E	0534D	S21	E01	08 10.3	1	04	9	9	E	SVTO 5099		
10	DSD	0530E	0950D	N32	E06	08 10.7		03	9	9	E	SVTO 5100		
10	AFS	0539E	1632D	S16	W58	08 5.8		02	9	9	E	SVTO 5101		
10	AFS	0600E	1632D	N16	E43	08 13.5		03	9	9	E	SVTO 5105		
10	ASR	0720E	1632D	N22	W90	08 3.4			9	9	E	SVTO 5092		
10	APR	0721	0739	N26	W90	08 3.3	1				C	ABST		
10	BSL	0734E	0735D	N25	W90	08 3.3	1-				C	CATA		
10	ADF	0837	0935D	N22	E00	08 10.3		04	9	9	E	LEAR 5099		
10	BSL	0935	1002D	N25	W90	08 3.4	1				C	CATA		
10	BSL	1036E	1141D	N22	W90	08 3.5	2				C	CATA		
10	BSL	1136	1141D	N85	W90	08 2.1	1-				C	CATA		
10	ASR	1153E	1415D	N28	W90	08 3.5			9	9	E	RAMY 5092		
10	AFS	1225E	1749D	N21	W03	08 10.3		02	9	9	E	RAMY 5099		
10	AFS	1231E	1749D	N16	E38	08 13.4		03	9	9	E	RAMY 5105		
10	AFS	1420E	1749D	S14	W63	08 5.8		04	9	9	E	RAMY 5101		
10	ASR	1502E	1749D	N29	W90	08 3.6			9	9	E	RAMY 5092		
10	AFS	1643E	1749D	N23	E41	08 13.8		04	9	9	E	RAMY 5106		
10	AFS	1810E	0414D	N21	E40	08 13.8		03	9	9	E	PALE 5106		
10	AFS	1810E	0414D	N22	W07	08 10.2		02	9	9	E	PALE 5099		
10	AFS	2058E	0414D	S14	W65	08 6.0		03	9	9	E	PALE 5101		
11	AFS	0241E	1703D	S17	E44	08 14.4		03	9	9	E	SVTO 5108		
11	AFS	0510E	0851D	N22	W15	08 10.1		03	9	9	E	LEAR 5099		
11	APR	0743	0804	N40	E90	08 18.6	1				C	ABST		
11	APR	0743	0804	N48	E90	08 18.9	1				C	ABST		
11	ADF	0833E	1703D	N17	E32	08 13.8	1	04	9	9	E	SVTO 5105		
11	ADF	0840E	1703D	S15	W22	08 9.7	1	04	9	9	E	SVTO 5102		
11	ADF	0842E	1703D	N18	E28	08 13.5	1	02	9	9	E	SVTO 5105		
11	BSL	0850E	0850D	S13	W90	08 4.6	1-				C	CATA		
11	AFS	1200E	1550D	N17	E26	08 13.5		02	9	9	E	RAMY 5105		
11	AFS	1200E	1649D	N17	E26	08 13.5		04	8	9	E	RAMY 5105		
11	AFS	1200E	1649D	N21	E28	08 13.6		03	9	9	E	RAMY 5106		
11	AFS	1200E	1649D	S13	W74	08 5.9		03	9	9	E	RAMY 5101		
11	AFS	1200E	1649D	S18	E42	08 14.7		03	8	8	E	RAMY 5108		
11	ASR	1900E	2158D	N24	E90	08 18.7			9	9	E	HOLL		
11	ASR	1904E	2158D	S16	W89	08 5.0			9	9	E	HOLL 5101		
11	ASR	2048E	0448D	N24	E90	08 18.8			9	9	E	PALE		
11	ASR	2056E	0448D	S12	W86	08 5.4			9	9	E	PALE 5101		
11	AFS	2104E	0448D	N24	W25	08 9.9		03	9	9	E	PALE 5099		
11	AFS	2109E	0448D	N23	E26	08 13.9		03	9	9	E	PALE 5106		
11	SDF	2158E	1420D	N51	E25	08 14.0		15	0	0	E	HOLL		
12	AFS	0339E	0448D	S17	E08	08 12.7		04	9	9	E	PALE 5102		
12	DSD	0605	0617D	N30	W23	08 10.4	1	02	9	9	E	SVTO 5100	Flare Associated	
12	BSL	0640	0647	S79	E90	08 20.6	1-				C	CATA		
12	APR	0700E	0814	N37	W90	08 5.0	1				V	KHAR		
12	BSL	0722	0725D	S21	E90	08 19.2	1-				C	CATA		
12	ADF	0807	0818	N29	W28	08 10.1	1				V	KHAR		
12	APR	0958	1048D	S29	E90	08 19.5	1				V	KHAR		
12	ADF	1026E	1048D	N29	W28	08 10.2	1				V	KHAR		
12	ADF	1053E	1701D	N28	W30	08 10.1	1	07	9	9	E	SVTO 5099		
12	DSD	1101E	1222D	N26	W27	08 10.4	1	03	9	9	E	SVTO 5099		
12	BSL	1115	1127	N29	W90	08 5.4	1-				C	CATA		
12	AFS	1406E	1701D	N25	E84	08 19.1		04	9	9	E	SVTO		
12	DSD	1450	1535D	N32	E07	08 13.2		02	9	9	E	HOLL 5107		
12	ASR	1500E	1525D	S19	W90	08 5.7			9	9	E	RAMY 5101		
12	AFS	1500E	1948D	N25	E18	08 14.0		02	9	9	E	RAMY 5106		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Sta	Reg#	Remarks
12	ADF	1500E	2149D	N14	E12	08	13.5	1	05	9	9	E	RAMY	5105	
12	ADF	1500E	2149D	N27	W31	08	10.2	1	04	9	9	E	RAMY	5099	
12	ASR	1504E	1538	S16	W90	08	5.8			9	9	E	HOLL	5101	
12	ASR	1513E	1538D	S19	W90	08	5.8			9	9	E	SVTO	5101	
12	DSD	1618E	2149D	S20	E24	08	14.5		02	9	9	E	RAMY	5108	
12	DSD	1755E	1959D	N14	E04	08	13.0		04	9	9	E	HOLL	5105	Flare Associated
12	ASR	1817E	1944D	S13	W90	08	6.0			9	9	E	PALE	5101	
12	ASR	1845E	0114D	S11	W90	08	6.0			7	7	E	HOLL	5101	
12	DSD	1858E	2149D	N14	E05	08	13.2		03	9	9	E	RAMY	5105	
12	DSD	1933E	2053D	N12	E03	08	13.0		04	9	9	E	HOLL	5105	
12	DSD	2252E	0012D	N14	E17	08	14.2		03	9	9	E	PALE	5105	
13	ASR	0535E	0944D	N18	W90	08	6.4			9	9	E	LEAR		
13	AFS	0605E	1640D	N20	W41	08	10.1		03	9	9	E	SVTO	5099	
13	ADF	0606E	1223D	N26	W40	08	10.1	1	06	9	9	E	SVTO	5099	
13	ADF	0618E	0926D	N28	E14	08	14.3	1	07	8	8	E	SVTO	5106	
13	SDF	0655E	0926D	N28	E14	08	14.4		07	8	8	E	SVTO	5106	
13	DSD	0755E	0814	N24	E12	08	14.2	1	04	9	9	E	SVTO	5106	Flare Associated
13	BSL	0805	0830	N20	W90	08	6.4	1				V	KHAR		
13	AFS	1108E	1253D	N21	W43	08	10.2		02	9	9	E	RAMY	5099	
13	DSD	1108E	1807D	S20	E13	08	14.4		02	9	9	E	RAMY	5108	
13	ADF	1108E	2050D	N24	W43	08	10.1	2	04	9	9	E	RAMY	5099	
13	DSD	1212E	1535D	N14	E04	08	13.8		02	9	9	E	RAMY	5105	
13	AFS	1227E	1640D	S22	E13	08	14.5		02	9	9	E	SVTO	5108	
13	AFS	1253E	1558D	N15	E00	08	13.5		02	9	9	E	RAMY	5105	
13	ADF	1253E	1919D	S24	E08	08	14.1	1	05	9	9	E	RAMY	5108	
13	DSD	1315E	1430D	N17	E01	08	13.6		03	9	9	E	HOLL	5105	
13	ADF	1535E	1915D	N28	W43	08	10.3	2	04	9	9	E	RAMY	5100	
13	AFS	1707E	0447D	S22	E11	08	14.5		01	9	9	E	PALE	5108	
13	AFS	1710E	2000D	N14	E00	08	13.7		02	9	9	E	RAMY	5105	
13	DSD	2008E	2140D	N15	W07	08	13.3		05	7	5	E	RAMY	5105	
13	DSD	2040E	0447D	N15	W07	08	13.3		04	8	7	E	PALE	5105	
14	AFS	0155E	0925D	S18	W16	08	12.9		02	9	9	E	LEAR	5102	
14	AFS	0205E	0925D	N17	W11	08	13.2		02	9	9	E	LEAR	5105	
14	AFS	0210E	0925D	N23	W53	08	10.0		02	9	9	E	LEAR	5099	
14	AFS	0215E	0925D	N24	E00	08	14.1		02	9	9	E	LEAR	5106	
14	ADF	0627E	1522D	N26	E58	08	18.8	1	06	9	9	E	SVTO	5109	
14	BSL	0631E	0705	N15	W90	08	7.4	2				C	CATA		
14	ADF	0636E	1213D	S18	W19	08	12.8	1	05	9	9	E	SVTO	5102	
14	AFS	0742E	1033D	N17	W57	08	10.0		06	9	9	E	SVTO	5099	
14	ADF	0747E	1522D	S27	W01	08	14.2	1	05	9	9	E	SVTO	5108	
14	AFS	0830E	1640D	N06	E12	08	15.2		04	9	9	E	SVTO		
14	APR	0930E	1030D	N50	E90	08	22.0	1				V	KHAR		
14	BSL	1003	1010	N20	W90	08	7.5	1-				C	CATA		
14	ADF	1035E	1640D	N19	W10	08	13.7	1	04	9	9	E	SVTO	5106	
14	AFS	1213E	1640D	N32	W18	08	13.1		02	9	9	E	SVTO	5107	
14	AFS	1510E	1850D	N32	W17	08	13.3		01	7	7	E	HOLL	5107	
14	AFS	1545E	1953D	N33	W16	08	13.4		02	9	9	E	RAMY	5107	
14	AFS	1849E	1929D	N24	E52	08	18.8		02	7	8	E	HOLL	5109	
15	DSD	0602E	0655D	S17	E01	08	15.3		03	9	9	E	LEAR		
15	AFS	0602E	0951D	N15	W26	08	13.3		04	9	9	E	LEAR	5105	
15	AFS	0602E	0951D	N22	W64	08	10.3		04	9	9	E	LEAR	5099	
15	DSD	0615E	0706D	S17	E02	08	15.4		03	9	9	E	SVTO		
15	AFS	0621E	1702D	N19	W67	08	10.1		02	9	9	E	SVTO	5099	
15	AFS	0622E	1601D	N15	W25	08	13.4		04	9	9	E	SVTO	5105	
15	AFS	0928E	1702D	N32	W28	08	13.2		02	9	9	E	SVTO	5107	
15	DSD	1133E	1537D	N15	W25	08	13.6		02	9	9	E	RAMY	5105	
15	ASR	1225E	1601D	N25	E90	08	22.5	1		9	9	E	SVTO		
15	AFS	1300E	1601D	N24	W21	08	13.9		02	9	9	E	SVTO	5106	
15	ASR	1317E	1714D	N20	E90	08	22.4			9	9	E	RAMY		
15	SSB	1350		264	W30	08	20.6			0	0	E	HOLL		
15	ADF	1536E	1714D	N17	W29	08	13.4	1	03	9	9	E	RAMY	5105	
15	ADF	1540E	1714D	N24	W23	08	13.9	1	04	9	9	E	RAMY	5106	
15	ADF	1550E	1702D	S24	E23	08	17.4	1	03	9	9	E	SVTO	5106	
15	SDF	1702E	0453D	N37	E30	08	18.1		08	0	0	E	SVTO		
15	ASR	1724E	1726D	N20	E90	08	22.6			9	9	E	HOLL		
15	DSD	2034	2345D	N24	W19	08	14.4		04	9	9	E	HOLL	5106	Flare Associated
15	SDF	2201E	2232D	N28	W10	08	15.1		12	0	0	E	PALE		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
15	SDF	2201E	2232D	N36	W34	08 13.2		07	0	0	E	PALE		
15	DSD	2315E	0230D	S24	W21	08 14.3		02	9	9	E	LEAR	5108	
15	AFS	2320E	0950D	N23	E36	08 18.7		03	7	5	E	LEAR	5109	
16	AFS	0533E	0903D	N22	W27	08 14.1		03	9	9	E	SVTO	5106	
16	SDF	0632E	0608D	S31	E36	08 19.1		10	0	0	E	SVTO		
16	ADF	0713E	0750D	N46	E49	08 20.4	1				V	KHAR		
16	DSD	0723	0728	S27	W24	08 14.4	1				V	KHAR		
16	DSD	0727	0740	N22	W27	08 14.2	1				V	KHAR		
16	DSD	0750E	0856D	S21	W29	08 14.1		03	9	9	E	SVTO	5108	
16	AFS	0855E	1656D	N25	W32	08 13.9		01	9	9	E	SVTO	5106	
16	ADF	0902E	0950	N46	E49	08 20.5	1				V	KHAR		
16	ADF	1238E	1520D	N29	W81	08 10.2	1	05	9	9	E	RAMY	5100	
16	ADF	1255E	1902D	N17	W42	08 13.3	1	04	9	9	E	RAMY	5105	
16	APR	1350E	1725D	S36	E90	08 23.8	1		9	9	E	RAMY		
16	DSD	1730E	1826D	N23	E27	08 18.8		01	9	9	E	RAMY	5109	
16	SSB	1829		264	W47	08 22.1			0	0	E	HOLL		
16	ADF	2043E	2134D	N23	W40	08 13.8		02	9	9	E	HOLL	5106	
16	SDF	2111E	1513D	N34	E18	08 18.3		08	0	0	E	HOLL		
16	SDF	2111E	1513D	N43	W32	08 14.2		08	0	0	E	HOLL		
16	AFS	2302E	0938D	N16	W48	08 13.3		04	9	9	E	LEAR	5105	
16	AFS	2302E	0938D	S22	W36	08 14.2		02	9	9	E	LEAR	5108	
17	ASR	0200E	0938D	N21	W90	08 10.2			9	9	E	LEAR	5099	
17	ADF	0207E	0938D	N14	W50	08 13.3	3	12	9	9	E	LEAR	5105	
17	DSD	0555E	0840D	S20	W50	08 13.4		03	9	9	E	SVTO	5108	
17	DSD	0700E	0803	N13	W52	08 13.4		04	9	9	E	SVTO	5105	
17	AFS	0706E	1702D	N25	E18	08 18.7		03	8	8	E	SVTO	5109	
17	ADF	0715E	1702D	N22	W46	08 13.8	1	06	9	9	E	SVTO	5106	
17	ADF	0854E	0925	N06	W52	08 13.5	2				V	KHAR		
17	BSL	1000	1010	N17	E90	08 24.2	1-				C	CATA		
17	BSL	1019	1045	N22	E90	08 24.3	1				C	CATA		
17	BSL	1035	1053	N15	E90	08 24.2	1				V	KHAR		
17	BSL	1041	1050	N14	E90	08 24.2	1				C	CATA		
17	BSL	1057	1111	S52	E90	08 25.1	1-				C	CATA		
17	BSL	1100	1111	N20	E90	08 24.3	1-				C	CATA		
17	BSL	1111	1111D	N22	E90	08 24.4	1				C	CATA		
17	SSB	1401		263	W55	08 23.0			0	0	E	HOLL		
17	ASR	1625E	2328D	N21	W90	08 10.8			9	9	E	HOLL	5099	
17	SDF	1702E	0414D	N26	E60	08 22.4		10	0	0	E	SVTO		
17	ASR	1903E	2328D	N12	E90	08 24.6			8	8	E	HOLL		
17	AFS	2127E	0444D	S21	W44	08 14.5		02	9	9	E	PALE	5108	
17	AFS	2131E	0444D	S25	E33	08 20.4		02	9	9	E	PALE		
17	SDF	2134E	1530D	S35	W18	08 16.4		16	0	0	E	HOLL		
17	SDF	2134E	1530D	S46	W22	08 16.1		11	0	0	E	HOLL		
17	ASR	2310E	0942D	N11	E90	08 24.7			9	8	E	LEAR		
17	ADF	2310E	0942D	N14	W61	08 13.3	1	10	8	6	E	LEAR	5105	
17	AFS	2310E	0942D	N22	E12	08 18.9		04	9	9	E	LEAR	5109	
17	AFS	2310E	0942D	S21	W49	08 14.2		04	9	9	E	LEAR	5108	
18	SDF	0125E	1320D	N30	W22	08 16.3		05	0	0	E	HOLL		
18	ADF	0540E	1705D	N22	W58	08 13.8	1	08	9	9	E	SVTO	5106	
18	BSL	0849	0855D	N60	W90	08 10.4	1-				C	CATA		
18	BSL	0905E	0910	N60	W90	08 10.4	1-				C	CATA		
18	BSL	1025	1036	S75	E90	08 26.7	1-				C	CATA		
18	EPL	1055	1100	N85	E90	08 26.8	1-				C	CATA		
18	SSB	1309		262	W68	08 24.1			0	0	E	HOLL		
18	ADF	1400E	2328D	N25	W63	08 13.7	1	06	9	9	E	HOLL	5106	
18	ADF	1515E	2046D	N24	W57	08 14.2	1	08	9	9	E	RAMY	5106	
18	DSD	1515E	2122D	N15	W67	08 13.6		05	9	9	E	RAMY	5105	
18	ASR	1633E	1720D	N19	E90	08 25.5			9	9	E	HOLL	5115	
18	DSD	1705E	1719	N14	W76	08 13.0		06	9	9	E	HOLL	5105	
18	ASR	1719	1740D	N14	W76	08 13.0			9	9	E	HOLL	5105	
18	SDF	2232E	1805D	S19	W12	08 18.0		14	0	0	E	PALE		
18	AFS	2310E	0952D	N24	W03	08 18.7		02	9	9	E	LEAR	5109	
18	ADF	2313E	0952D	N14	W72	08 13.5	1	13	8	8	E	LEAR	5105	
19	DSD	0555E	0840D	S20	W50	08 15.4		03	9	9	E	SVTO	5108	
19	BSL	0635E	0646	S62	E90	08 27.2	1-				C	CATA		
19	BSL	0729	0745	N84	W90	08 10.9	1-				C	CATA		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
19	BSL	1024	1031	N32	E90	08 26.5	1-				C	CATA		
19	AFS	1210E	1658D	N30	W28	08 17.3		02	9	9	E	SVTO		
19	AFS	1217E	1542D	N31	W27	08 17.4		02	9	9	E	RAMY		
19	AFS	1327E	2148D	S25	E10	08 20.3		02	9	9	E	RAMY 5114		
19	BSD	1338E	1424D	N23	W75	08 13.8		22	9	9	E	RAMY 5106		Flare Associated
19	BSD	1338	1354	N24	W77	08 13.6		10	9	9	E	SVTO 5106		
19	BSL	1338	1442D	N24	W77	08 13.6			9	9	E	SVTO 5106		
19	ASR	1340E	1353	N28	W75	08 13.7			9	9	E	HOLL 5106		Flare Associated
19	BSL	1353	1452D	N23	W75	08 13.8			9	9	E	HOLL 5106		Flare Associated
19	SSB	1415				262 W80			0	0	E	HOLL		
19	AFS	1415E	0111D	S25	E10	08 20.4		01	9	9	E	HOLL 5114		
19	AFS	1415E	2041D	N31	W27	08 17.5		02	7	7	E	HOLL 5116		
19	ADF	1440E	2148D	N20	W69	08 14.3	2	04	9	9	E	RAMY 5106		
19	AFS	1727E	2148D	N30	W29	08 17.4		02	6	5	E	RAMY 5116		
19	AFS	1819E	1918D	N29	W29	08 17.5		02	7	7	E	PALE 5116		
19	AFS	1820E	0321D	S26	E09	08 20.5		02	9	9	E	PALE 5114		
19	AFS	2009E	0321D	S25	E20	08 21.4		02	5	5	E	PALE		
19	AFS	2020E	2148D	S25	E20	08 21.4		01	9	6	E	RAMY		
19	AFS	2040E	0111D	S25	E19	08 21.3		01	8	8	E	HOLL		
19	DSD	2110E	2148D	N21	E39	08 22.9		03	9	9	E	RAMY		Flare Associated
20	ASR	0058E	0111D	N15	E90	08 26.8			9	9	E	HOLL		
20	AFS	0203E	0555D	S25	E14	08 21.2		02	9	9	E	LEAR		
20	AFS	0658E	1323D	N22	E33	08 22.8		03	9	9	E	SVTO		
20	AFS	0700E	1655D	S25	E02	08 20.4		02	9	9	E	SVTO 5114		
20	AFS	0702E	1655D	S24	E14	08 21.4		02	8	8	E	SVTO 5118		
20	DSD	0733E	0745D	N15	E60	08 24.8	1				V	KHAR		
20	DSD	0803	0806	N20	W82	08 14.1	1				V	KHAR		
20	DSD	0843	0849	N22	E45	08 23.8	1				V	KHAR		
20	ADF	0933E	0947D	N15	E75	08 26.1	1				V	KHAR		
20	AFS	1143E	1725D	S24	E10	08 21.3		02	9	9	E	RAMY 5118		
20	AFS	1306E	1709D	S24	E09	08 21.2		02	8	8	E	HOLL 5118		
20	ADF	1431E	2013D	S20	E56	08 24.9	1	04	9	9	E	RAMY		
20	ASR	1634E	1725D	N22	W84	08 14.2			9	9	E	RAMY 5106		
20	ASR	2330E	0730D	N25	W90	08 14.0			9	9	E	LEAR 5106		
21	ASR	0037E	0323D	N23	W90	08 14.1			9	9	E	PALE 5106		
21	BSL	0521	0632	S27	E90	08 28.2	1				C	ABST		
21	BSL	0645E	0655	S17	W90	08 14.4	1				C	CATA		
21	ADF	0740E	0842D	N24	W39	08 18.3	1				V	KHAR		
21	DSD	0827E	0900D	N11	E50	08 25.1	1				V	KHAR		
21	BSL	0855	0921	S17	W90	08 14.5	1-				C	CATA		
21	BSL	0955	1020D	S64	E90	08 29.4	1-				C	CATA		
21	BSL	1000	1020D	S16	W90	08 14.6	1-				C	CATA		
21	DSD	1000	1030D	N11	E50	08 25.2	1				V	KHAR		
21	ASR	1020E	1700D	S20	W90	08 14.5			9	9	E	SVTO 5113		
21	BSL	1056E	1135D	S16	W90	08 14.6	1-				C	CATA		
21	BSL	1056E	1135D	S64	E90	08 29.5	1-				C	CATA		
21	ASR	1130E	2200D	S19	W90	08 14.6			9	9	E	RAMY 5113		
21	ASR	1149E	1345D	N23	W90	08 14.5			9	9	E	RAMY 5106		
21	ADF	1201E	2200D	N15	E56	08 25.7	2	09	9	9	E	RAMY 5115		
21	ADF	1206E	2200D	S18	E41	08 24.6	1	06	9	9	E	RAMY 5120		
21	ASR	1340E	1707D	S17	W90	08 14.7			9	9	E	HOLL 5108		
21	ASR	1805E	0054D	N21	E90	08 28.6			9	9	E	HOLL		
21	SDF	2200E	1130D	S04	E08	08 22.5		19	0	0	E	RAMY 5120		
22	ASR	0245E	0748D	N20	E90	08 29.0			9	9	E	LEAR		
22	BSL	0604	0803	N25	E90	08 29.2	1				C	ABST		
22	BSL	0604	0803	N53	E90	08 30.0	1				C	ABST		
22	ADF	0728E	0735	N20	E45	08 25.7	1				V	KHAR		
22	BSL	0742E	0755	S62	W90	08 14.3	1-				C	CATA		
22	BSL	0800	0820D	S21	E90	08 29.2	2				C	CATA		
22	BSL	0820E	0820D	S79	W90	08 14.0	1				C	CATA		
22	APR	0955E	1030D	N22	E90	08 29.3	1				V	KHAR		
22	BSL	1005E	1020	S22	E90	08 29.3	1				V	KHAR		
22	AFS	1130E	1335D	N19	E43	08 25.8		02	9	9	E	RAMY		
22	APR	1130E	1655D	N37	E90	08 29.7	2		9	9	E	RAMY		
22	ADF	1130E	1655D	S25	E37	08 25.3	1	12	9	9	E	RAMY 5120		
22	ADF	1515E	1655D	N18	E44	08 26.0	2	06	9	9	E	RAMY		
22	ASR	1640E	1655D	N26	E90	08 29.7			9	9	E	RAMY		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
22	ASR	1643E	0037D	N28	E90	08 29.7			9	9	E	HOLL		
22	APR	1643E	0037D	N34	E90	08 29.9			9	9	E	HOLL		
23	ADF	0342	0953D	S25	E29	08 25.4		12	9	9	E	LEAR 5120		
23	BSL	0542	0801	N27	E90	08 30.2	1				C	ABST		
23	BSL	0542	0801	N54	E90	08 31.0	1				C	ABST		
23	BSL	0655	0745	S24	E90	08 30.2	2				C	CATA		
23	BSL	0700E	0755	S21	E90	08 30.2	1				V	KHAR		
23	APR	0715	0730	N36	E90	08 30.5	1				V	KHAR		
23	BSL	0725	0740	S21	E90	08 30.2	1-				C	CATA		
23	ADF	0730E	0820D	N16	E32	08 25.7	1				V	KHAR		
23	ADF	0730E	0828D	N19	E34	08 25.9	1	07	9	9	E	SVTO 5122		
23	BSL	0740	0801	S18	E90	08 30.2	1				C	CATA		
23	BSL	0815	0834	S20	E90	08 30.2	1-				C	CATA		
23	ADF	0830	0850	N27	E36	08 26.1	1				V	KHAR		
23	SDF	0830E	0837D	N13	E32	08 25.8	3	10	8	6	E	LEAR 5122	Flare Associated	
23	BSL	0842	0906	S22	E90	08 30.3	1-				C	CATA		
23	APR	0854	0940D	N32	E90	08 30.5	1				V	KHAR		
23	ADF	0903	0930	N27	E36	08 26.2	1				V	KHAR		
23	BSL	0906	1010D	S19	E90	08 30.2	2				C	CATA		
23	BSL	0920	0940D	S21	E90	08 30.3	1				V	KHAR		
23	APR	1020E	1030	N32	E90	08 30.5	1				V	KHAR		
23	BSL	1020E	1035	S21	E90	08 30.3	1				V	KHAR		
23	ADF	1020E	1043D	N15	E30	08 25.7	1				V	KHAR		
23	BSL	1110	1120	S20	E90	08 30.3	1-				C	CATA		
23	LPS	1124E	1222D	N27	E90	08 30.5			9	9	E	RAMY		
23	DSD	1135E	1230D	N34	E88	08 30.5		08	9	9	E	RAMY	Flare Associated	
23	ASR	1135E	1230D	N34	E90	08 30.6			9	9	E	RAMY	Flare Associated	
23	ADF	1150E	2108D	N14	E32	08 25.9	2	10	9	9	E	RAMY 5122		
23	ADF	1215E	2105D	S25	E25	08 25.4	1	12	9	9	E	RAMY 5120		
23	AFS	1215E	2108D	S38	E31	08 26.0		02	9	9	E	RAMY		
23	ASR	1325E	2044D	S18	E90	08 30.4			9	9	E	HOLL		
23	ASR	1450E	1809D	N26	E90	08 30.6			9	9	E	RAMY		
23	APR	1500E	2108D	N35	E90	08 30.8	1		9	9	E	RAMY		
23	ASR	1500E	2108D	S22	E90	08 30.5			9	9	E	RAMY		
23	EPL	1505E	1705	N14	E90	08 30.4	3		9	7	E	HOLL		
23	APR	1535E	2044D	N33	E90	08 30.8	1		9	9	E	HOLL		
23	AFS	1535E	2044D	S38	E27	08 25.8	1	02	9	9	E	HOLL 5124		
23	EPL	1630E	1708D	N20	E90	08 30.6	3		9	8	E	RAMY		
23	AFS	1736E	0440D	S37	E28	08 26.0		02	9	9	E	PALE 5124		
23	APR	1744E	1954D	S22	E90	08 30.6	1		8	8	E	PALE		
23	ASR	1745	1920D	N30	E90	08 30.8			9	9	E	HOLL		
23	APR	1756E	1920D	N27	E90	08 30.8			9	9	E	HOLL		
23	APR	1801E	1955D	N27	E90	08 30.8			9	9	E	PALE		
23	LPS	1806E	2044D	N27	E90	08 30.8			9	9	E	HOLL		
23	LPS	1809E	2108D	N24	E90	08 30.7			9	9	E	RAMY	Flare Associated	
23	AFS	1930	2044D	N20	W01	08 23.7		01	9	9	E	HOLL 5117		
23	ADF	1930E	2108D	N27	E69	08 29.2	1	10	9	9	E	RAMY 5123		
23	AFS	1955E	0440D	N20	W02	08 23.7		01	9	9	E	PALE 5117		
23	APR	2038E	2240D	S22	E90	08 30.8	1		9	9	E	PALE		
23	ASR	2228E	0440D	S18	E88	08 30.6			9	9	E	PALE		
23	AFS	2258E	0947D	N19	W04	08 23.6		02	9	9	E	LEAR 5117		
23	ADF	2258E	0947D	N21	E01	08 24.0		09	9	9	E	LEAR 5117		
24	ASR	0030E	0947D	S23	E90	08 30.9			7	5	E	LEAR		
24	ADF	0411E	0440D	N31	W01	08 24.1	1	10	9	9	E	PALE 5117		
24	BSL	0426	0806	S20	E90	08 31.1	1				C	ABST		
24	BSL	0630E	0635	S22	E90	08 31.2	1-				C	CATA		
24	BSL	0710	0720	S40	W90	08 17.0	1				C	CATA		
24	BSL	0715	0731	S26	W90	08 17.3	1-				C	CATA		
24	BSL	0758E	0817	S34	E90	08 31.5	2				C	CATA		
24	BSL	0758E	0820	S25	E90	08 31.3	1				C	CATA		
24	BSL	0837	0855	S25	E90	08 31.3	1-				C	CATA		
24	BSL	0837	0930	S23	E90	08 31.3	1				C	CATA		
24	BSL	0855	0920	S25	W90	08 17.4	1				C	CATA		
24	ASR	0902E	0947D	S25	W75	08 18.6			9	9	E	LEAR 5110		
24	BSL	0956	1015	S26	W90	08 17.4	1-				C	CATA		
24	BSL	0956	1024D	S21	W90	08 17.5	1-				C	CATA		
24	SDF	1134E	0645D	N38	W13	08 23.4	1				C	CATA		
24	SDF	1134E	0645D	N48	W28	08 22.1	1				C	CATA		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Sta Reg#	Remarks
24	AFS	1230E	1307D	N14	E28	08 26.6		02	8	8	E	RAMY 5121	
24	AFS	1230E	1307D	N19	W11	08 23.7		04	9	9	E	RAMY 5117	
24	ADF	1230E	1307D	N32	E65	08 29.7	1	10	9	9	E	RAMY 5123	
24	ADF	1230E	1307D	S15	W05	08 24.1	1	20	9	9	E	RAMY 5120	
24	ASR	1230E	1307D	S25	W90	08 17.5			9	9	E	RAMY 5110	
24	ADF	1300E	1307D	N25	E83	08 31.0	2	09	9	9	E	RAMY 5125	
24	ASR	1300E	1307D	S21	E90	08 31.4			9	9	E	RAMY	
24	ASR	1325E	2044D	S18	E90	08 31.4			9	9	E	HOLL	
24	AFS	1331E	2102D	N20	W11	08 23.7		03	9	9	E	HOLL 5117	
24	DSD	1331E	2102D	N21	W12	08 23.6		03	9	9	E	HOLL 5117	
24	SDF	1352E	1525D	N24	W07	08 24.0		04	0	0	E	HOLL 5117	
24	ASR	1425E	1700D	S29	W90	08 17.5			9	9	E	SVTO 5110	
24	ASR	1454E	2102D	S26	W87	08 17.9			9	9	E	HOLL 5110	
24	AFS	1510E	1700D	N19	W15	08 23.5		04	9	9	E	SVTO 5117	
24	AFS	1515E	2102D	N15	E27	08 26.7		03	8	9	E	HOLL 5121	
24	ADF	1525E	2102D	N29	W07	08 24.1	1	07	9	9	E	HOLL 5117	
24	APR	1535E	2044D	N33	E90	08 31.8	1		9	9	E	HOLL	
24	AFS	1535E	2044D	S38	E27	08 26.8	1	02	9	9	E	HOLL 5124	
24	ADF	1540E	1652D	N25	E59	08 29.2	2	06	9	9	E	HOLL 5123	
24	ASR	1710E	0439D	S26	W90	08 17.7			9	9	E	PALE 5110	
24	DSD	1725E	0421D	N18	W15	08 23.6		02	9	9	E	PALE 5117	
24	AFS	1725E	0439D	N19	W15	08 23.6		03	9	9	E	PALE 5117	
24	AFS	1735E	0439D	N15	E26	08 26.7		02	7	4	E	PALE 5121	
24	LPS	1806E	2044D	N27	E90	08 31.8			9	9	E	HOLL	
24	ASR	1822E	2102D	S21	E90	08 31.7			9	8	E	HOLL	
24	AFS	1932	2044D	N20	W01	08 24.7		01	9	9	E	HOLL 5117	
24	ASR	1948	2102D	N22	E90	08 31.7			9	9	E	HOLL 5125	
24	BSL	2203E	2250	S36	W90	08 17.7	1				C	VORO	
24	EPL	2208E	2237	N34	E90	09 1.1	1				C	VORO	
24	LPS	2223E	2255	N26	E90	08 31.9			9	9	E	PALE 5125	
24	APR	2237	0146D	S46	W90	08 17.4	1				C	VORO	
24	ASR	2324E	0439D	S20	E84	08 31.4			9	9	E	PALE	
25	AFS	0015E	0953D	N20	W18	08 23.6		02	9	9	E	LEAR 5117	
25	ASR	0015E	0953D	S24	W76	08 19.1			9	9	E	LEAR 5110	
25	ASR	0040E	0953D	N21	E90	08 31.9			9	9	E	LEAR 5125	
25	ADF	0145E	0953D	N19	W20	08 23.5	2	05	9	9	E	LEAR 5117	
25	ASR	0335E	0953D	S22	E79	08 31.2			9	9	E	LEAR	
25	AFS	0548E	1605D	N20	W20	08 23.7		03	9	9	E	SVTO 5117	
25	BSL	0601	0801	S40	E90	09 1.6	1				C	ABST	
25	ADF	0608E	1605D	N18	W22	08 23.6	1	04	9	9	E	SVTO 5117	
25	AFS	0619E	1605D	N23	E49	08 29.0		02	9	9	E	SVTO 5123	
25	BSL	0645E	0650	S76	E90	09 2.6	1-				C	CATA	
25	BSL	0734E	0736D	N10	E90	09 1.1	1				C	CATA	
25	BSL	0734E	0736D	N84	E90	09 2.7	1-				C	CATA	
25	BSL	0736E	0736D	N76	W90	08 17.0	1-				C	CATA	
25	BSL	0936	0950	S22	E90	09 1.3	1-				C	CATA	
25	BSL	1012	1020D	S22	E90	09 1.3	1-				C	CATA	
25	BSL	1100	1135	S24	W90	08 18.5	1				C	CATA	
25	AFS	1553E	0041D	N23	E44	08 29.0		02	9	9	E	HOLL 5123	
25	BSD	1553E	1735D	N20	E83	09 1.0		05	9	9	E	HOLL	
25	AFS	1736E	0041D	N20	W24	08 23.9		03	8	8	E	HOLL 5117	
25	AFS	1744E	1914D	N20	W36	08 23.0		02	9	9	E	PALE 5127	
25	AFS	1805E	1914D	N20	W26	08 23.8		03	9	9	E	PALE 5117	
25	APR	2250	0030D	S41	W90	08 18.6	1				C	VORO	
25	AFS	2330E	0946D	N21	E39	08 29.0		02	8	8	E	LEAR 5123	
26	DSD	0142	0235	S21	E61	08 30.7		06	9	9	E	LEAR 5126	
26	BSL	0455	0627	S13	E90	09 2.0	1				C	ABST	
26	BSL	0455	0809	S30	E90	09 2.3	1				C	ABST	
26	BSL	0455	0809	S36	W90	08 19.0	1				C	ABST	
26	AFS	0540E	1703D	N24	E33	08 28.8		02	9	9	E	SVTO 5123	
26	AFS	0540E	1703D	N24	E35	08 28.9		02	9	9	E	SVTO 5123	
26	ADF	0549E	1703D	N18	W33	08 23.7	1	06	9	9	E	SVTO 5117	
26	AFS	0558E	1703D	N19	W44	08 22.9		05	9	9	E	SVTO 5127	
26	ADF	0618E	1703D	N13	E02	08 26.4	1	05	9	9	E	SVTO 5121	
26	AFS	0632E	1521D	S25	E73	08 31.9		03	9	9	E	SVTO 5126	
26	ADF	0649E	1703D	N25	E74	09 1.0	1	07	9	9	E	SVTO 5125	
26	BSL	0650E	0725	S33	E90	09 2.4	1-				C	CATA	
26	BSL	0931E	0935	S24	E90	09 2.3	1-				C	CATA	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Reg#	Remarks
26	BSL	0948	1010	S19	E90	09 2.3	1-				C	CATA	
26	BSL	1001	1030	N01	E90	09 2.1	1-				C	CATA	
26	BSL	1130	1135D	S28	E90	09 2.5	1				C	CATA	
26	DSD	1300E	1927D	N20	W38	08 23.6		03	9	9	E	RAMY 5117	
26	AFS	1300E	2137D	N21	W47	08 22.9		02	9	9	E	RAMY 5127	
26	ASR	1335E	2128D	S26	W81	08 20.3			9	9	E	RAMY 5144	
26	ASR	1359E	2137D	S18	E88	09 2.3			9	9	E	RAMY	
26	AFS	1441E	1755D	N21	E30	08 28.9		02	9	9	E	RAMY 5123	
26	ADF	1441E	2128D	N22	W10	08 25.8	2	09	9	9	E	RAMY 5122	
26	ASR	1622E	1951D	S25	W90	08 19.7			9	9	E	HOLL 5114	
26	ASR	1622E	2346D	S20	E88	09 2.4			8	9	E	HOLL	
26	ASR	1632E	1703D	S16	E90	09 2.5			9	9	E	SVTO	
26	AFS	1639E	2346D	N21	W49	08 22.9		03	9	9	E	HOLL 5127	
26	ASR	1705E	0437D	S18	E85	09 2.2			9	9	E	PALE	
26	DSD	1740E	1951D	N20	W39	08 23.7		04	9	9	E	HOLL 5117	
26	AFS	1746E	0437D	N20	W50	08 22.9		03	9	9	E	PALE 5127	
26	AFS	1750E	0437D	N22	E28	08 28.9		03	9	9	E	PALE 5123	
26	DSD	1755E	2200D	N20	W40	08 23.7		05	9	9	E	PALE 5117	
26	AFS	2215E	2346D	N15	E26	08 28.9	1	03	9	9	E	HOLL	
26	AFS	2239E	2240D	N15	E25	08 28.8		03	9	9	E	PALE	
26	ASR	2255E	2346D	S20	E87	09 2.6			9	9	E	HOLL	
27	ASR	0000E	0955D	S19	E90	09 2.9			9	9	E	LEAR	
27	AFS	0030E	0955D	N14	E24	08 28.8		02	9	9	E	LEAR	
27	DSD	0035E	0320D	N13	E24	08 28.8		03	9	9	E	LEAR	
27	BSL	0405	0657	S33	W90	08 20.0	1				C	ABST	
27	BSL	0504	0822	S39	E90	09 3.5	1				C	ABST	
27	BSL	0529	0822	S13	E90	09 3.0	1				C	ABST	
27	ASR	0530E	1704D	S19	E90	09 3.1			9	8	E	SVTO	
27	AFS	0534E	1704D	N15	E21	08 28.8		03	9	9	E	SVTO	
27	DSD	0558E	0910D	N18	W60	08 22.7		03	9	9	E	SVTO 5127	
27	BSL	0635	0656	S17	E90	09 3.1	1-				C	CATA	
27	BSL	0730E	0756D	S24	E90	09 3.3	1-				C	CATA	
27	BSL	0739	0822	S20	E90	09 3.2	1				C	ABST	
27	BSL	0816E	0902	S20	E90	09 3.2	1				C	CATA	
27	BSL	0850	0937	S24	E90	09 3.3	1				C	CATA	
27	ASR	0950E	1704D	S26	W90	08 20.4			9	9	E	SVTO 5114	
27	AFS	0952E	1704D	N19	W60	08 22.8		02	9	5	E	SVTO 5127	
27	BSL	1020	1036	S23	E90	09 3.4	1-				C	CATA	
27	BSL	1045	1056	S23	E90	09 3.4	1-				C	CATA	
27	BSL	1111	1125	S48	W90	08 19.9	1-				C	CATA	
27	AFS	1245E	2208D	N19	W50	08 23.7		02	9	9	E	RAMY 5117	
27	AFS	1245E	2208D	N21	W60	08 22.9		02	9	9	E	RAMY 5127	
27	AFS	1310E	2208D	N14	E17	08 28.8		03	9	9	E	RAMY	
27	DSD	1310E	2208D	N15	E18	08 28.9		03	9	9	E	RAMY	
27	ASR	1321E	2208D	S21	E83	09 2.9			9	9	E	RAMY	
27	DSD	1350E	1630D	N22	E20	08 29.1		02	9	9	E	RAMY 5123	
27	DSD	1502E	2256D	N16	E18	08 29.0		02	9	9	E	HOLL 5130	
27	DSD	1935E	2208D	N16	W39	08 24.8		03	9	9	E	RAMY 5115	
27	DSD	1950E	2256D	N13	W39	08 24.9		03	9	9	E	HOLL 5115	
27	AFS	1950E	2256D	N16	W41	08 24.7		02	9	9	E	HOLL 5115	
27	AFS	2011E	2256D	N20	E53	08 31.9		04	9	9	E	HOLL 5128	
27	ASR	2015E	2256D	S19	E90	09 3.7			9	9	E	HOLL 5131	
27	AFS	2105E	2208D	N19	E52	08 31.8		03	9	9	E	RAMY 5128	
27	AFS	2118E	0436D	N15	W43	08 24.6		03	9	9	E	PALE 5115	
27	AFS	2133E	2208D	N17	W40	08 24.8		03	9	9	E	RAMY 5115	
28	AFS	0020E	0954D	N15	W42	08 24.8		03	5	5	E	LEAR 5115	
28	AFS	0100E	0954D	N20	E50	08 31.9		02	9	6	E	LEAR 5128	
28	ADF	0320E	0954D	N19	E46	08 31.6	1	07	9	9	E	LEAR 5128	
28	AFS	0522E	1706D	N14	W46	08 24.7		03	9	9	E	SVTO 5115	
28	AFS	0522E	1706D	N22	E45	08 31.7		02	9	7	E	SVTO 5128	
28	ADF	0522E	1706D	S15	E61	09 1.8	1	05	9	9	E	SVTO 5131	
28	AFS	0620E	0954D	N14	E07	08 28.8		02	9	9	E	LEAR 5130	
28	AFS	0620E	0954D	S27	E45	08 31.8		05	9	9	E	LEAR 5126	
28	ADF	0747E	1706D	N20	E46	08 31.8	1	05	9	9	E	SVTO 5128	
28	BSL	0836	0846	S82	E90	09 5.7	1-				C	CATA	
28	BSL	1005	1017	S85	W90	08 20.0	1-				C	CATA	
28	AFS	1140E	1759D	N17	W48	08 24.8		04	9	9	E	RAMY 5115	
28	ADF	1145E	1540D	S20	E36	08 31.2	1	15	9	9	E	RAMY 5126	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/USAF Sta Reg#	Remarks
28	AFS	1150E	1759D	N20	E44	08 31.8		03	9	9	E	RAMY 5128	
28	ADF	1155E	1759D	S21	E65	09 2.5	2	09	9	9	E	RAMY 5131	
28	DSD	1414E	1759D	N14	W52	08 24.7		03	9	9	E	RAMY 5115	Flare Associated
28	AFS	1540E	1759D	N14	W52	08 24.7		03	9	9	E	RAMY 5115	
28	AFS	1722E	1759D	N21	E03	08 28.9		02	5	6	E	RAMY 5123	
28	AFS	1809E	0436D	N17	W23	08 27.0		03	9	9	E	PALE 5115	
28	AFS	1813E	0436D	N21	E41	08 31.9		02	9	9	E	PALE 5128	
28	DSD	2338	0436D	N20	E37	08 31.8		04	9	9	E	PALE 5128	Flare Associated
29	AFS	0019E	0937D	N19	E38	08 31.9		03	9	9	E	LEAR 5128	
29	AFS	0019E	0937D	S23	E32	08 31.5		03	9	9	E	LEAR 5126	
29	AFS	0019E	0937D	S23	E60	09 2.6		04	9	9	E	LEAR 5131	
29	ADF	0818E	1618D	N14	W61	08 24.7	1	05	9	9	E	SVTO 5115	
29	ADF	0818E	1618D	S22	E27	08 31.4	1	08	9	9	E	SVTO 5126	
29	AFS	0819E	1618D	N24	E33	08 31.9		03	9	9	E	SVTO 5128	
29	ADF	0820E	1618D	N15	W07	08 28.8	1	09	9	9	E	SVTO 5130	
29	ADF	0821E	1618D	S13	E51	09 2.2	1	08	9	9	E	SVTO 5131	
29	BSL	1036	1045	N82	E90	09 6.8	1-				C	CATA	
29	AFS	1130E	1738D	N14	W61	08 24.9		02	9	9	E	RAMY 5115	
29	AFS	1145E	1738D	S21	E55	09 2.7		03	9	9	E	RAMY 5131	
29	ASR	1801E	0435D	N19	W90	08 22.9			9	7	E	PALE 5127	
29	AFS	1801E	0435D	S20	E50	09 2.6		03	9	9	E	PALE 5131	
29	AFS	2313E	0948D	N26	W25	08 28.0		03	9	9	E	LEAR	
29	AFS	2313E	0948D	S21	E50	09 2.8		04	9	9	E	LEAR 5131	
29	AFS	2313E	0948D	S24	E19	08 31.4		05	9	9	E	LEAR 5126	
30	AFS	0029E	0435D	N22	E20	08 31.5		03	9	9	E	PALE 5128	
30	DSD	0242	0435D	S15	E41	09 2.2		03	9	9	E	PALE 5131	
30	ASR	0310	0435D	N90	E27	09 1.6			9	9	E	PALE	
30	AFS	0330E	0948D	N35	E73	09 5.0		03	9	9	E	LEAR	
30	ASR	0815E	0948D	N90	E24	09 1.6			9	9	E	LEAR	
30	BSL	0816E	0851	N26	E90	09 6.3	1-				C	CATA	
30	ASR	0816E	1637D	N27	E90	09 6.3			9	9	E	SVTO	
30	BSL	0916	0930	S14	E90	09 6.2	1-				C	CATA	
30	BSL	0936	0941	N28	E90	09 6.4	1-				C	CATA	
30	BSL	1005	1020D	N74	W90	08 22.1	1				C	CATA	
30	AFS	1310E	2122D	N21	E22	09 1.2		03	8	8	E	RAMY 5128	
30	DSD	1315E	2122D	S19	E42	09 2.7		10	9	9	E	RAMY 5131	
30	AFS	1315E	2122D	S20	E41	09 2.7		03	9	9	E	RAMY 5131	
30	ASR	1325E	2122D	N24	E86	09 6.2			9	9	E	RAMY	
30	ASR	1615E	2122D	S19	W83	08 24.3			9	9	E	RAMY	
30	ADF	1650E	2122D	N23	W19	08 29.2	1	04	9	9	E	RAMY 5123	
30	AFS	1715E	2122D	S20	E06	08 31.2		03	9	9	E	RAMY 5126	
30	ASR	1820E	1820D	N20	W85	08 24.3			9	9	E	RAMY 5117	
30	ASR	2245E	0110D	N14	W85	08 24.5			7	7	E	HOLL 5115	
30	AFS	2245E	0110D	N21	E14	09 1.0		03	9	9	E	HOLL 5128	
30	ASR	2245E	0110D	N23	E90	09 6.9			7	8	E	HOLL	
30	ASR	2245E	0110D	S17	W82	08 24.7			9	9	E	HOLL	
30	AFS	2245E	0110D	S20	E36	09 2.7		03	9	9	E	HOLL 5131	
30	AFS	2305E	0950D	S20	E02	08 31.1		02	9	9	E	LEAR 5126	
30	AFS	2305E	0950D	S20	E36	09 2.7		03	9	9	E	LEAR 5131	
30	ASR	2330E	0950D	N20	W77	08 25.1			9	9	E	LEAR 5117	
30	AFS	2345E	0950D	N20	E13	09 1.0		03	9	9	E	LEAR 5128	
31	AFS	0001E	0408D	N21	E13	09 1.0		03	9	9	E	PALE 5128	
31	ASR	0120E	0950D	N81	W15	08 29.7			9	9	E	LEAR 5115	
31	BSL	0722E	0725D	N13	W90	08 24.5	1-				C	CATA	
31	BSL	0725	0725D	N16	W90	08 24.5	1-				C	CATA	
31	BSL	0725	0725D	N22	W90	08 24.4	1-				C	CATA	
31	BSL	0756E	0802D	S22	W90	08 24.4	1-				C	CATA	
31	BSL	0856E	0901	N33	E90	09 7.5	1-				C	CATA	
31	BSL	0856E	0905	S22	W90	08 24.4	1-				C	CATA	
31	DSD	0930E	0948D	N14	E28	09 2.5	1				V	KHAR	
31	EPL	0946	1035D	S14	W90	08 24.6	1				C	CATA	
31	BSL	0955	1004	N64	W90	08 23.4	1-				C	CATA	
31	BSL	1002	1010	N01	W90	08 24.7	1-				C	CATA	
31	BSL	1002	1024	N14	W90	08 24.6	1				C	CATA	
31	BSL	1020	1110D	N05	W90	08 24.7	1				C	CATA	
31	BSL	1030	1035	S28	W90	08 24.4	1-				C	CATA	
31	ASR	1119E	2211D	N15	W85	08 25.0			9	9	E	RAMY 5115	

ACTIVE PROMINENCES AND FILAMENTS

AUGUST 1988

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
31	AFS	1119E	2211D	N20	E06	08	31.9		03	9	9	E	RAMY	5128	
31	AFS	1119E	2211D	N21	E04	08	31.8		02	9	9	E	RAMY	5128	
31	DSD	1119E	2211D	N23	E10	09	1.2		02	9	9	E	RAMY	5128	
31	ADF	1119E	2211D	N24	W29	08	29.2	1	04	9	9	E	RAMY	5123	
31	DSD	1119E	2211D	S16	E31	09	2.8		02	9	9	E	RAMY	5131	
31	AFS	1119E	2211D	S20	E28	09	2.6		02	9	9	E	RAMY	5131	
31	ADF	1125E	1635D	S26	E01	08	31.5	1	08	9	9	E	SVTO	5126	
31	ADF	1128E	1635D	N19	E07	09	1.0	1	04	9	9	E	SVTO	5128	
31	AFS	1131E	1635D	S18	E31	09	2.8		03	9	9	E	SVTO	5131	
31	ASR	1350E	1635D	N11	W90	08	24.8			9	9	E	SVTO	5115	
31	ASR	1456E	2220D	N18	W82	08	25.4			9	9	E	HOLL	5115	
31	ASR	1456	2211D	N17	W89	08	24.8			9	9	E	RAMY	5115	
31	AFS	1515E	0032D	N21	E03	08	31.9	1	03	9	9	E	HOLL	5128	
31	DSD	1515E	0032D	N23	E09	09	1.3		04	9	9	E	HOLL	5128	
31	DSD	1515E	0032D	S21	E21	09	2.2		05	9	9	E	HOLL	5131	
31	ADF	1515E	2225D	N20	W30	08	29.3	1	08	9	9	E	HOLL	5123	
31	DSD	1522E	1635D	N23	E09	09	1.3		07	9	9	E	SVTO	5128	
31	DSD	1522E	1635D	N25	E09	09	1.3		05	9	9	E	SVTO	5128	
31	AFS	1845E	0408D	S19	E39	09	3.7		02	9	9	E	PALE	5131	
31	ASR	1903E	0408D	S20	W88	08	25.1			9	9	E	PALE		
31	AFS	2305E	0956D	N21	E00	09	1.0		03	9	9	E	LEAR	5128	
31	AFS	2305E	0956D	S19	E20	09	2.5		04	9	9	E	LEAR	5131	
31	AFS	2320E	0032D	S20	E23	09	2.7		04	9	9	E	HOLL	5131	
31	ADF	2325E	0956D	S14	E14	09	2.0	1	04	9	8	E	LEAR	5129	

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

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

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

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

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

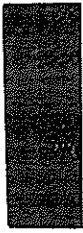
C O N T E N T S

Comprehensive Reports

MISCELLANEOUS DATA

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CARTE SYNOPTIQUE
ACTIVE REGIONS
CARRINGTON ROTATION 1804

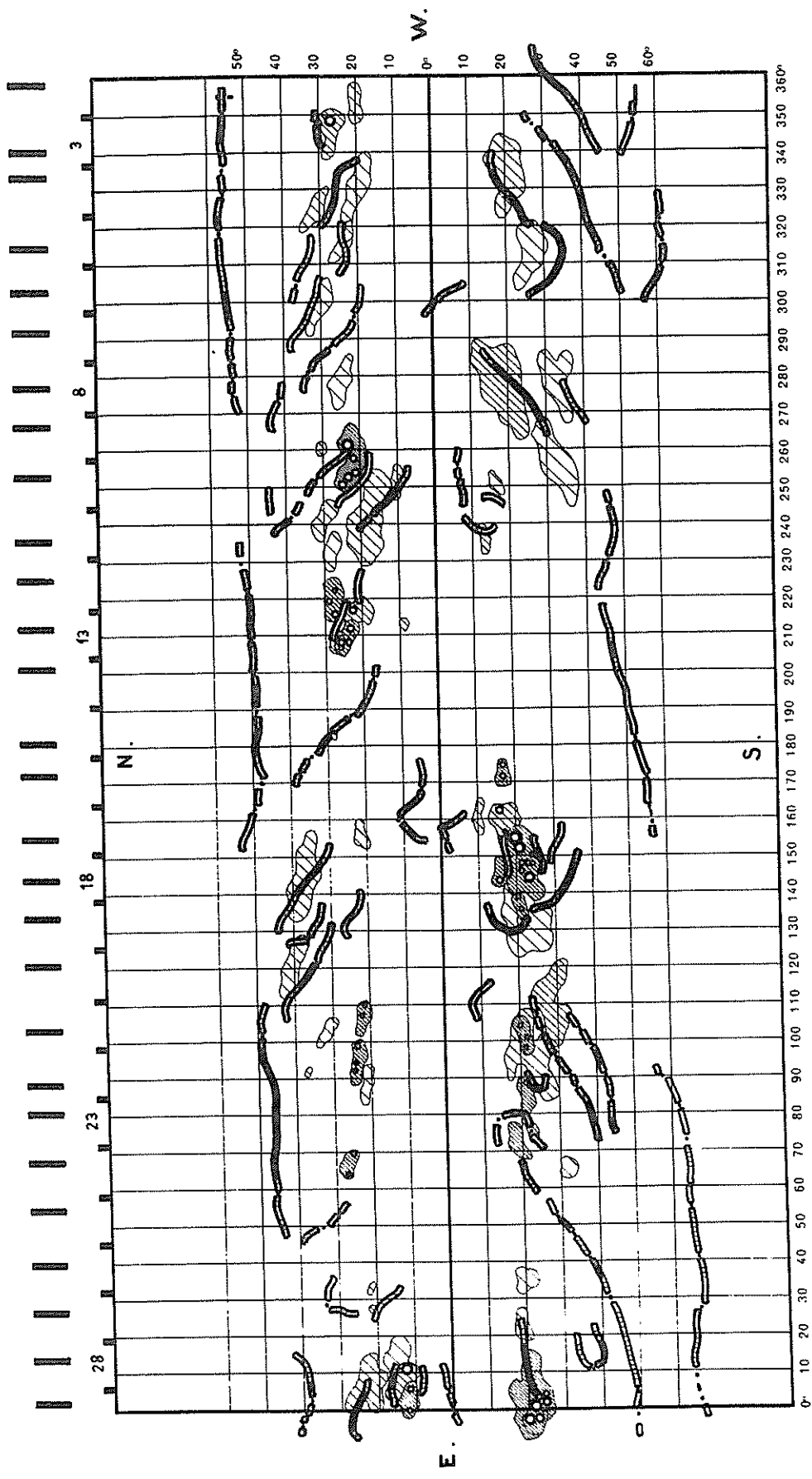
(2 July to 29 July 1988)

Region No.	Coordinates Lat. Long.	Imp	Age at CMP (Days)	Spotless Region	Region No. in Rotation 1803	Activity at West Limb
1	20 N 354	1	>6	x		dispersed
2	27 N 345	3	>6		2	decreasing
3	21 S 334	1	>6	x	7	decreasing
4	31 N 325	1	>6	x		dispersed
5	22 N 319	1	>6	x		decreasing
6	18 S 278	1	>6	x	12	decreasing
7	30 N 261	1	-3	x		dispersed
8	22 N 258	4	+6			decreasing
9	10 N 252	1	>6	x	14	dispersed
10	16 S 251	1	+2	x		disappeared
11	18 N 243	1	>6	x	15	decreasing
12	30 N 242	1	>6	x		dispersed
13	13 S 237	1	+6	x		dispersed
14	28 N 220	3	+3			decreasing
15	24 N 215	2	>6			decreasing
16	24 N 210	3	>6			decreasing
17	17 S 174	2	0			stable
18	10 S 162	1	>6	x		dispersed
19	16 S 160	2	>6		24	decreasing
20	22 N 157	1	>6	x		dispersed
21	22 S 149	6	>6			decreasing
22	15 S 147	2	+5			decreasing
23	37 N 145	1	>6	x	22	dispersed
24	21 S 137	2	-1			decreasing
25	41 N 122	1	>6	x	25	dispersed
26	28 S 110	1	>6	x	28	dispersed
27	22 N 107	2	-2			decreasing
28	21 S 102	2	-1			decreasing
29	21 S 97	1	>6	x	29+30	disappeared
30	24 N 96	2	0			decreasing
31	21 S 86	2	>6			decreasing
32	22 S 76	1	-1	x		stable
33	18 S 73	1	>6	x		dispersed
34	27 N 67	2	-2			decreasing
35	22 N 34	1	+3	x		disappeared
36	19 S 24	1	>6	x	36	dispersed
37	14 N 9	3	>6		42	decreasing
38	24 N 7	1	>6	x	39	decreasing
39	21 S 5	2	>6		37+41	decreasing
40	13 N 4	2	>6		43	decreasing
41	22 S 0	5	+3			decreasing

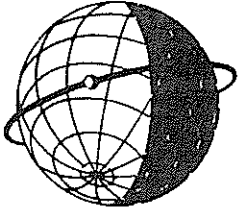
CARTE SYNOPTIQUE
CARRINGTON ROTATION NUMBER 1804
(2 July to 29 July 1988)

July 1988

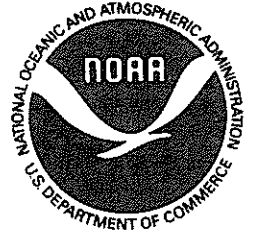
Meudon Observatory



Heliographic Longitude



WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS



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

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