



U.S. DEPARTMENT OF COMMERCE

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

Thomas N. Pyke, Jr., Assistant Administrator

SEPTEMBER 1990 NUMBER 553 - Part II

Solar-Geophysical Data comprehensive reports

Data for March 1990

International Standard Serial Number: 0038-0911

Library of Congress Catalog Number: 79-640375 //r81

NATIONAL GEOPHYSICAL DATA CENTER

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Boulder, Colorado

Subscription information is on the inside back cover.

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

NUMBER 553

(Issued in Two Parts)

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H α SOLAR FLARES

MARCH 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks				
								USAF					Region	Mo	Day		(Min)	Opt	Xray	See
0001	LEAR	01	0030	0034	0058	N32	E38	5961	03	4.0	28	SF	C	8.6	3	E	55		E	
0002	VORO	01	0131	0134	0143	S21	E26	5958	03	3.0	12	SF			2	C	0134	45	0.5	
0003	LEAR	01	0221	0224	0247	N31	E37	5961	03	4.0	26	SF			3	E		26		
0004		01	0249	0307	0330	N32	E34	5961	03	3.8	41	SN						74	1.4	E
	LEAR	01	0249	0307	0331	N31	E37	5961	03	4.0	42	SF			3	E		43		
	PEKG	01	0300E	0302U	0330	N32	E32	5961	03	3.6	30D	SB				P	0302	84	1.3	E
	YUNN	01	0307E	0307U	0334D	N33	E34	5961	03	3.8	27D	SN				P	0307	94	1.6	
0005		01	03392	03404	0418	N30	E38	5961	03	4.1	39	2B	M	1.9				308	6.1	E
	LEAR	01	0339	0340	0430	N30	E39	5961	03	4.2	51	1B	M	1.9	3	E		237		
	PEKG	01	0341	0344	0405	N29	E37	5961	03	4.0	24	2B				P	0344	378	6.1	E
0006		01	0356	04045	0453	S19	W45	5947	02	25.8	57	2N	M	1.7				255		K
	LEAR	01	0356	0404	0453	S19	W45	5947	02	25.8	57	2N	M	1.7		E		276		K
	LEAR	01	0356	0409	0453	S19	W45	5947	02	25.8	57	2N	M	1.7	3	E		234		
0007	LEAR	01	0435	0440	0456	N31	E36	5961	03	4.0	21	SF			3	E		33		
0008		01	05282	05314	0556	N30	E34	5961	03	3.9	28	1N	M	1.8				200	4.2	DEF
	PEKG	01	0528	0531	0531D	N30	E36	5961	03	4.0	3D	1B				P	0531	168	2.8	D
	LEAR	01	0528	0533	0556	N30	E34	5961	03	3.9	28	SN	M	1.8	3	E		87		FE
	TACH	01	0530	0535	0557	N31	E32	5961	03	3.7	27	2N			2	C	0535	344	5.5	E
0009		01	0641	0654	0658	N32	E33	5961	03	3.9	17	SN	C	2.0				59	1.5	F
	YUNN	01	0641E	0641U	0657	N30	E32	5961	03	3.8	16D	SN				P	0641	94	1.5	
	SVTO	01	0641	0654	0658	N33	E34	5961	03	4.0	17	SF	C	2.0	3	E		24		F
0010	LEAR	01	0706	0707	0714	S18	W47	5947	02	25.8	8	SF			3	E		20		
0011	YUNN	01	0707	0708	0714	N31	E33	5961	03	3.9	7	SF				C		47	0.7	
0012		01	0718*	07352	0755	N32	E32	5961	03	3.8	37	1N	C	2.9				94	2.5	FW
	SVTO	01	0718	0737	0807	N33	E33	5961	03	3.9	49	SN	C	2.9	3	E		95		F
	YUNN	01	0724	0742U	0755	N33	E32	5961	03	3.8	31	1F				P	0742	157	2.5	
	LEAR	01	0732	0735	0750	N30	E33	5961	03	3.9	18	SF			3	E		29		
	ISTA	01	0733		0748	N30	E31	5961	03	3.7	15	1B				P				W
0013		01	08253	0831*	0914	N31	E32	5961	03	3.9	49	1N	C	5.6				112	3.4	BFK
	SVTO	01	0825	0833	0952	N32	E33	5961	03	4.0	87	1N	C	5.6	3	E		103		F
	SVTO	01	0825	0857	0952	N32	E33	5961	03	4.0	87	SN				E		75		K
	YUNN	01	0826	0831	0859	N32	E32	5961	03	3.9	33	1B				C		220	3.5	
	ISTA	01	0828		0925	N30	E32	5961	03	3.9	57	1B				P				B
	ATHN	01	0830E	0830U	0840	N31	E31	5961	03	3.8	10D	1B			3	V	0830	207	3.3	
	LEAR	01	0832E	0832U	0839	N30	E32	5961	03	3.9	7D	SF			2	E		48		
	LEAR	01	0908E	0908U	0911D	N32	E33	5961	03	4.0	3D	SF	C	8.7	2	E		19		
0014		01	10141	10164	1037	S18	W48	5947	02	25.9	23	SF						34	0.6	D
	KANZ	01	1014	1018	1042	S19	W49	5947	02	25.8	28	SF				C				
	SVTO	01	1015	1016	1040	S17	W47	5947	02	25.9	25	SF			3	E		26		
	KAND	01	1015	1020	1030	S17	W49	5947	02	25.8	15	SN				P	1020	42	0.6	D
0015		01	10153	10183	1031	N32	E31	5961	03	3.9	16	SF	C	2.1				19		
	SVTO	01	1015	1021	1031	N33	E32	5961	03	4.0	16	SF	C	2.1	3	E		19		
	KANZ	01	1018	1018	1031	N30	E30	5961	03	3.8	13	SF				C				
0016	SVTO	01	1106	1109	1155	S16	W48	5947	02	25.9	49	SF			3	E		41		
0017	KANZ	01	1108	1108	1116	S23	W45	5957	02	26.1	8	SF				C				
0018		01	11413	11422	1150	S21	E21	5958	03	3.1	9	SF						14		
	SVTO	01	1141	1142	1152	S20	E21	5958	03	3.1	11	SF			3	E		14		
	KANZ	01	1144	1144	1147	S22	E21	5958	03	3.1	3	SF				C				
0019		01	12179	1217*	1242	N33	E30	5961	03	3.9	25	SF	C	2.5				22	0.4	
	KANZ	01	1217	1217	1229	N31	E30	5961	03	3.9	12	SF				C				
	SVTO	01	1226	1229	1255	N32	E30	5961	03	3.9	29	SF	C	2.5	3	E		13		
	HTPR	01	1230E		1236D	N36	E30	5961	03	3.9	6D	SF				C	1230	30	0.4	

H α SOLAR FLARES

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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)		
0020	KANZ	01	1308	1311	1311	N27	E33	5961	03	4.1	3	SF		C					
0021		01	13105	13154	1322	S21	W46	5957	02	26.1	12	SN	C 2.7			102	2.7	EH	
	KAND	01	1310	1315	1322	S19	W46	5957	02	26.1	12	1B		P	1315	187	2.7	EH	
	SVTO	01	1312	1317	1320	S21	W46	5957	02	26.1	8	SF	C 2.7	3	E	18		H	
	KANZ	01	1315	1319	1323	S23	W47	5957	02	26.0	8	SF		C					
0022		01	1417	14183	1432	N30	E28	5961	03	3.8	15	SF				24		F	
	SVTO	01	1417	1418	1431	N32	E29	5961	03	3.9	14	SF		3	E	24		F	
	KANZ	01	1417	1421	1433	N29	E28	5961	03	3.8	16	SF		C					
0023		01	15011	15032	1515	N27	E30	5961	03	4.0	14	SN	C 6.0			69		F	
	KANZ	01	1501	1505	1516	N26	E31	5961	03	4.0	15	SN		C					
	SVTO	01	1502	1503	1515	N28	E30	5961	03	4.0	13	SN	C 6.0	3	E	69		F	
		01	1621		1627	No Flare Patrol													
0024	RAMY	01	1726	1731	1742	N31	E30	5961	03	4.1	16	SF		3	E	45			
0025	RAMY	01	1754	1758	1808	N30	E30	5961	03	4.1	14	SF		3	E	19			
0026	RAMY	01	1825	1829	1849	N31	E28	5961	03	4.0	24	SF		3	E	31		F	
		01	1842		1845	No Flare Patrol													
0027	HOLL	01	1909	1920	1932	S17	W53	5947	02	25.9	23	SF		3	E	31		F	
0028	HOLL	01	1920	1921	1931	N29	E29	5961	03	4.1	11	SF	C 1.8	3	E	32		F	
0029		01	2023	20231	2034	N26	E30	5961	03	4.2	11	SN	C 3.4			82		EF	
	HOLL	01	2023	2023	2033	N26	E30	5961	03	4.2	10	SN		2	E	91		FE	
	RAMY	01	2023	2024	2035	N26	E29	5961	03	4.1	12	SN	C 3.4	3	E	72			
0030	HOLL	01	2030	2036U	2110D	S36	W67	5942	02	24.6	40D	SF		2	E	34		F	
0031		01	2039*	2046*	2106	S15	W54	5947	02	25.9	27	SF	C 2.8			69		F	
	HOLL	01	2039	2047U	2129D	S14	W54	5947	02	25.9	50D	1F		2	E	105		F	
	RAMY	01	2041	2046	2057	S15	W54	5947	02	25.9	16	SF	C 2.8	3	E	77		F	
	RAMY	01	2107	2108	2115	S16	W54	5947	02	25.9	8	SF		3	E	26			
0032	RAMY	01	2107	2109	2132	N29	E26	5961	03	3.9	25	SF	C 3.9	3	E	25			
		01	2138		2159	No Flare Patrol													
0033	HOLL	01	2219	2220	2224	N29	E25	5961	03	3.9	5	SF		3	E	28		F	
0034	HOLL	01	2240	2247	2257	S18	W56	5947	02	25.8	17	SF	C 2.8	3	E	29		F	
0035	HOLL	01	2356	2402	2414	N28	E24	5961	03	3.9	18	SF		3	E	20		F	
0036		02	0059	0118*	0259	N30	E24	5961	03	3.9	120	1F	M 1.2			231	4.8	EJU	
	VORO	02	0059	0118	0253	N30	E23	5961	03	3.8	114	2F		2	C	0131	349	5.2	EJ
	LEAR	02	0120E	0122U	0220D	N30	E24	5961	03	3.9	60D	SF	M 1.2	2	E	31		U	
	YUNN	02	0140E	0145	0305	N29	E24	5961	03	3.9	85D	1N		P		314	4.4		
		02	0347		0356	No Flare Patrol													
		02	0418		0457	No Flare Patrol													
0037	YUNN	02	0701E	0702U	0707	S20	W10	5955A	03	1.5	6D	SN		P	0702	47	0.5		
0038	SVTO	02	0755	0757	0803	N31	E76	5964	03	8.3	8	SF		3	E	12		H	
0039	HPR	02	0813E		0813D	S20	E10	5958	03	3.1	8D	SF		C	0813	20	0.2	D	

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Mar 90

H α SOLAR FLARES

MARCH 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0040		02	0820*	0823*	0910	N31	E20	5961	03	3.9	50	SN	C 6.3			62	1.0	EFHK	
	KANZ	02	0820	0834	0922	N28	E18	5961	03	3.7	62	SN			C				
	SVTO	02	0821	0823	0929	N32	E21	5961	03	4.0	68	SN			E		46		K
	SVTO	02	0821	0836	0929	N32	E21	5961	03	4.0	68	SF	C 6.3	3	E		54		FH
	YUNN	02	0834E	0834U	0836	N31	E22	5961	03	4.1	20	SN			P	0834	79	1.1	
	HURB	02	0837	0837	0854	N27	E18	5961	03	3.8	17	SF							E
	HTPR	02	0900E	0903	0905D	N35	E20	5961	03	4.0	50	SF			C	0903	70	0.9	
0041		02	08271	08295	0844	S37	W70	5942	02	24.8	17	SF					20		
	KANZ	02	0827	0834	0844	S37	W72	5942	02	24.6	17	SF			C				
	SVTO	02	0828	0829	0843	S37	W69	5942	02	24.9	15	SF		3	E		20		
0042	SVTO	02	0916	0932	0935	N17	W56	5948	02	26.2	19	SF		3	E		26		
0043		02	0922	09221	0928	S37	W72	5942	02	24.7	6	SF					24		
	KANZ	02	0922	0922	0926	S37	W72	5942	02	24.7	4	SF			C				
	SVTO	02	0922	0923	0929	S37	W72	5942	02	24.7	7	SF		3	E		24		
0044	KANZ	02	0937E	0937U	0941	S23	E11	5958	03	3.2	40	SF			C				
0045		02	10093	1013	1027	S38	W74	5942	02	24.5	18	SF					22		
	KANZ	02	1009	1013	1027	S38	W76	5942	02	24.4	18	SF			C				
	SVTO	02	1012	1013	1027	S38	W71	5942	02	24.8	15	SF		3	E		22		
0046		02	10198	10301	1042	N30	E70	5964	03	7.9	23	1N	C 1.9				129		
	SVTO	02	1019	1031	1046	N30	E67	5964	03	7.7	27	1F	C 1.9	3	E		129		
	KANZ	02	1027	1030	1038	N30	E72	5964	03	8.1	11	SN			C				
0047	HTPR	02	1052E		1056D	S08	W80	5945	02	24.5	40	SF			C	1052			
0048	KANZ	02	1132	1136	1157	N34	E20	5961	03	4.1	25	SF			C				
0049	SVTO	02	1256	1301	1311	S36	W75	5942	02	24.6	15	SF		3	E		17		
0050	HTPR	02	1338E		1340D	S17	E12	5958	03	3.5	20	SF			C	1338	10	0.1	
0051		02	14292	14332	1513	S19	E09	5958	03	3.3	44	SF	C 2.8				31	0.2	F
	HTPR	02	1419E		1422D	S14	E12	5958	03	3.5	30	SF			C	1419	20	0.2	
	KANZ	02	1429	1433	1511	S20	E08	5958	03	3.2	42	SF			C				
	HOLL	02	1429	1434	1506	S20	E05	5958	03	3.0	37	SF		3	E		30		F
	SVTO	02	1429	1435	1505	S20	E10	5958	03	3.4	36	SF		3	E		26		F
	RAMY	02	1431	1431U	1530	S20	E08	5958	03	3.2	59	SF	C 2.8	3	E		49		F
0052		02	15062	15081	1516	S22	W15	5955	03	1.5	10	SF	C 2.0				21		
	SVTO	02	1506	1509	1514	S21	W15	5955	03	1.5	8	SF	C 2.0	3	E		21		
	KANZ	02	1508	1508	1519	S22	W15	5955	03	1.5	11	SF			C				
		02	1609		1621			No Flare Patrol											
		02	1623		1625			No Flare Patrol											
		02	1638		1652			No Flare Patrol											
		02	1935		1942			No Flare Patrol											
		02	2305		2400			No Flare Patrol											
		03	0000		0057			No Flare Patrol											
		03	0138		0209			No Flare Patrol											
0053	HTPR	03	0748E		0748D	S16	W04	5958	03	3.0	110	SF			C	0748	20	0.2	D
0054	HTPR	03	0853	0856	0903	S22	W04	5958	03	3.1	10	SF			C	0856	20	0.2	E
0055	HTPR	03	0859	0902	0920	S08	E67	5965	03	8.4	21	SF			C	0902	30	0.7	
0056		03	09384	09483	1017	S19	W03	5958	03	3.2	39	1F	C 4.5				158	1.7	FI
	HTPR	03	0938	0948	1020	S16	W04	5958	03	3.1	42	SN			C	0948	170	1.7	I
	KANZ	03	0940	0951	1013	S21	W01	5958	03	3.3	33	1F			C				
	SVTO	03	0942	0950	1018	S19	W03	5958	03	3.2	36	1F	C 4.5	2	E		145		F
0057		03	10134	10191	1028	S10	E66	5965	03	8.4	15	SF					40	1.0	
	HTPR	03	1013	1019	1030	S08	E67	5965	03	8.4	17	SF			C	1019	40	1.0	
	KANZ	03	1017	1020	1025	S12	E65	5965	03	8.3	8	SF			C				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0058		03	1017*	1031*	1055	N32	E07	5961	03	4.0	38	SF				65	1.1	
	HTPR	03	1017	1031	1045	N32	E04	5961	03	3.7	28	SF			C	1031	110	1.4
	KANZ	03	1025	1033	1051	N29	E05	5961	03	3.8	26	SF			C			
	HTPR	03	1053	1056	1100	N35	E10	5961	03	4.2	7	SF			C	1056	60	0.8
	SVTO	03	1057	1057	1104	N33	E09	5961	03	4.2	7	SF	3	E		24		
0059		03	12162	1220	1230	S10	E67	5965	03	8.5	14	SF					16	
	KANZ	03	1216	1220	1231	S10	E67	5965	03	8.5	15	SF			C			
	RAMY	03	1218	1220	1229	S10	E67	5965	03	8.5	11	SF	3	E		16		
0060		03	12584	1306	1331	S12	E65	5965	03	8.4	33	SN C 8.6					59	FH
	KANZ	03	1258	1306	1329	S11	E65	5965	03	8.4	31	SN			C			
	RAMY	03	1302	1306	1333	S12	E65	5965	03	8.4	31	SF C 8.6	3	E		59		FH
0061		03	14461	1447	1452	S22	W07	5958	03	3.1	6	SF					60	0.6
	HTPR	03	1446	1447	1454	S22	W07	5958	03	3.1	8	SF			C	1447	60	0.6
	KANZ	03	1447	1447	1451	S23	W07	5958	03	3.1	4	SF			C			
0062	HTPR	03	1509	1509	1509	S12	E22	5963	03	5.3	4	SF			C	1509	20	0.2
0063	HTPR	03	1536	1536	1545	S07	E70	5965	03	8.9	9	SF			C	1536	30	0.7
0064	RAMY	03	1634	1647	1730	N31	E05	5961	03	4.1	56	SF C 8.4	3	E		83		F
0065	RAMY	03	1650	1655	1740	S12	E63	5965	03	8.4	50	SF			3	E	23	
0066	RAMY	03	2017E	2025U	2025D	S12	W76	5947	02	26.2	8D	SF M 1.1	2	E		62		
		03	2026		2400			No Flare Patrol										
		04	0000		0034			No Flare Patrol										
0067	PURP	04	0214E	0214U	0224	S21	W12	5958	03	3.2	10D	SF			P	0214	41	0.4
0068	SVTO	04	1333	1334	1340	S10	E50	5965	03	8.3	7	SF	3	E		15		
0069		04	14191	14251	1430	S19	W89	5947	02	25.9	11	1F					111	
	SVTO	04	1419	1426	1431	S19	W90	5947	02	25.8	12	1F	3	E		137		
	HOLL	04	1420E	1425	1430	S19	W89	5947	02	25.9	10D	1F	3	E		101		
	RAMY	04	1420	1426	1428	S18	W88	5947	02	26.0	8	SF	3	E		96		
0070	HOLL	04	1442	1505	1525	S12	E50	5965	03	8.4	43	SF	3	E		16		
0071		04	15215	15261	1532	N32	W08	5961	03	4.0	11	SF					22	F
	HOLL	04	1521	1527	1535	N31	W08	5961	03	4.0	14	SF	3	E		35		F
	RAMY	04	1524	1526	1529	N32	W08	5961	03	4.0	5	SF	3	E		15		
	SVTO	04	1526	1527	1532	N32	W09	5961	03	3.9	6	SF	3	E		17		
		04	2106		2144			No Flare Patrol										
		04	2229		2300			No Flare Patrol										
		04	2321		2339			No Flare Patrol										
		04	2352		2400			No Flare Patrol										
		05	0000		0005			No Flare Patrol										
0072	LEAR	05	0532	0532	0536	S11	E42	5965	03	8.4	4	SF	3	E		12		F
0073	LEAR	05	0550	0554	0603	S11	E40	5965	03	8.2	13	SF	4	E		14		
0074	LEAR	05	0603	0607	0705	N29	W16	5961	03	4.0	62	SF C 1.4	4	E		43		F
0075	LEAR	05	0628	0637	0641	S10	E42	5965	03	8.4	13	SF	4	E		19		F
0076	LEAR	05	0706	0707	0726	N29	W17	5961	03	4.0	20	SF	4	E		25		F
0077	ISTA	05	0730		0747	S11	E41	5965	03	8.4	17	SF			P			E
0078	ISTA	05	0735	0735	0747	N32	W16	5961	03	4.0	12	SB			P			D

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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	Obs See Type	Area Measurement			Remarks	
												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0079		05 0751*	08062	0829	N28	W19	5961	03	3.8	38	SF		74		EF	
	KANZ	05 0751	0806	0825	N27	W20	5961	03	3.8	34	SF	C				
	LEAR	05 0751	0808	0842	N28	W19	5961	03	3.8	51	SF	3 E	74		F	
	ISTA	05 0807	0807	0819	N30	W19	5961	03	3.8	12	SN	P			E	
0080	ISTA	05 0803		0816	S11	E41	5965	03	8.4	13	SF	P			E	
0081	KAND	05 0900	0905	0918	N33	W19	5961	03	3.9	18	SF	P	0905	42	0.6	D
0082	KANZ	05 1002	1010	1017	N28	E27	5964	03	7.5	15	SF	C				
		05 1631		1710	No Flare Patrol											
		05 1739		1803	No Flare Patrol											
0083		05 18133	18142	1824	S20	W36	5958	03	3.0	11	SF			30		F
	HOLL	05 1813	1814	1824	S21	W30	5958	03	3.4	11	SF	3 E		46		F
	HOLL	05 1816	1816	1824	S20	W43	5958	03	2.5	8	SF	3 E		15		
0084	RAMY	05 2023E	2035	2053	N30	W24	5961	03	4.0	30D	SF	3 E		44		F
		05 2238		2244	No Flare Patrol											
		05 2249		2318	No Flare Patrol											
0085	HOLL	05 2334E	2336U	2340D	N32	W23	5961	03	4.2	6D	SF C 2.4	2 E		30		F
0086	LEAR	06 0125	0127	0144	S14	W10	5963	03	5.3	19	SF	3 E		24		F
0087	LEAR	06 0407	0409	0413	S12	E30	5965	03	8.4	6	SF	3 E		19		
0088		06 0431*	0446	0500	S14	W16	5963	03	5.0	29	SB			150	1.6	D
	YUNN	06 0431	0442U	0443D	S15	W16	5963	03	5.0	12D	SN	P	0442	110	1.2	
	PEKG	06 0442	0446	0500	S14	W15	5963	03	5.1	18	SB	P	0446	189	2.0	D
0089	LEAR	06 0636	0638	0654	S15	W17	5963	03	5.0	18	SF	3 E		19		
0090	SVTO	06 0642	0642	0657	N11	E59	5966	03	10.7	15	SF C 1.4	3 E		42		
0091	HTPR	06 0732E	0734	0741	S10	E27	5965	03	8.3	9D	SF	C	0734	70	0.8	
0092		06 0743*	0750*	0816	S14	W16	5963	03	5.1	33	SN			97	1.0	BDEFHKLT
	HTPR	06 0732E		0750	S15	W18	5963	03	4.9	18D	SF	C	0732	50	0.5	BLT
	HTPR	06 0743	0750	0800	S12	W15	5963	03	5.2	17	SF	C	0750	70	0.7	LT
	KAND	06 0745E		0758	S13	W16	5963	03	5.1	13D	SN	P	0752	42	0.4	DFT
	ISTA	06 0748		0801	S14	W13	5963	03	5.3	13	1B	P				FY
	YUNN	06 0748	0802U	0826	S14	W18	5963	03	5.0	38	SN	P	0802	110	1.2	
	SVTO	06 0750E	0750	0835	S14	W17	5963	03	5.0	45D	1F	E		109		K
	PURP	06 0750E	0800U	0813	S14	W17	5963	03	5.0	23D	SN	P	0800	109	1.2	E
	LEAR	06 0750	0801	0820	S13	W16	5963	03	5.1	30	SF	3 E		57		
	SVTO	06 0750E	0801	0835	S14	W17	5963	03	5.0	45D	1F	3 E		156		H
	HTPR	06 0755	0802	0830	S14	W17	5963	03	5.0	35	SN	C	0802	160	1.7	LT
	KAND	06 0758	0802	0819	S14	W18	5963	03	5.0	21	SB	P	0802	104	1.1	EFUT
	ISTA	06 0801		0819	S16	W15	5963	03	5.2	18	1N	P				F
0093	HTPR	06 0923	0928	0941	N32	E13	5964	03	7.4	18	SF	C	0928	60	0.8	
0094	HTPR	06 0925	0929	0950	S16	E19	5965	03	7.8	25	SF	C	0929	10	0.1	D
0095	HTPR	06 0947	0950	1010	N15	E62	5966	03	11.1	23	SF	C	0950	80	1.8	
0096		06 09473	0950	0958	S12	E32	5965	03	8.8	11	SF			84	1.0	D
	HTPR	06 0947	0950	0958	S12	E32	5965	03	8.8	11	SF	C	0950	60	0.6	
	BUCA	06 0950		1000D	S13	E31	5965	03	8.7	10D	SF	P	0955	107	1.3	D
0097		06 1002	10404	1100	S14	W18	5963	03	5.0	58	SF			110	1.2	ET
	KANZ	06 0950E	1044	1058D	S15	W19	5963	03	5.0	68D	SF	C				
	HTPR	06 1002	1040	1100	S14	W17	5963	03	5.1	58	SF	C	1040	110	1.2	ET
0098	HTPR	06 1017	1024	1030	S10	E27	5965	03	8.4	13	SF	C	1024	100	1.1	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region			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)		
0099		06	1054*	1058*	1137	S10	E26	5965	03	8.4	43	SF	C	1.7		61	0.8	EFK	
	HTPR	06	1054	1058	1135	S10	E27	5965	03	8.5	41	SF			C	1058	80	0.9	K
	HTPR	06	1054	1124	1135	S10	E27	5965	03	8.5	41	SN			C	1124	60	0.7	K
	SVTO	06	1056	1125	1135	S10	E25	5965	03	8.3	39	SF	C	1.7	4	E	24		F
	RAMY	06	1119	1126	1138	S10	E25	5965	03	8.4	19	SF			3	E	59		F
	KAND	06	1120	1125	1140	S10	E26	5965	03	8.4	20	SN			P	1125	83	0.9	E
0100		06	11023	11042	1136	S14	W18	5963	03	5.1	34	SN					90	1.0	EFHT
	HTPR	06	1102	1104	1120	S14	W17	5963	03	5.2	18	SF			C	1104	90	1.0	T
	SVTO	06	1105E	1105	1212	S14	W19	5963	03	5.0	67D	SN			4	E	98		HT
	KAND	06	1105	1106	1116	S13	W18	5963	03	5.1	11	SN			P	1106	83	0.9	EFT
0101		06	1202*	1207*	1245	S10	E26	5965	03	8.4	43	SF					49	0.7	K
	HTPR	06	1202	1207	1245	S10	E27	5965	03	8.5	43	SF			C	1207	50	0.5	K
	HTPR	06	1202	1230	1245	S10	E27	5965	03	8.5	43	SF			C	1230	80	0.9	K
	RAMY	06	1219	1224U	1306D	S11	E25	5965	03	8.4	47D	SF			3	E	17		
	KANZ	06	1220	1223	1238D	S10	E25	5965	03	8.4	18D	SF			C				
0102		06	1226*	12541	1330	S15	W20	5963	03	5.0	64	SN					82	0.8	EJTW
	HTPR	06	1226	1255	1330	S15	W20	5963	03	5.0	64	SF			C	1255	80	0.8	T
	KAND	06	1247	1254	1315D	S15	W21	5963	03	4.9	28D	SN			P	1254	83	0.9	EJW
0103		06	1256*	12599	1333	N29	W34	5961	03	3.9	37	SF	C	1.8			49	1.1	F
	HTPR	06	1256	1259	1400	N30	W35	5961	03	3.8	64	SF			C	1259	70	1.1	
	SVTO	06	1258	1308	1325	N32	W32	5961	03	4.0	27	SF	C	1.8	4	E	26		
	RAMY	06	1307	1307	1315	N29	W34	5961	03	3.9	8	SF			3	E	50		F
	KANZ	06	1318E		1333	N25	W36	5961	03	3.8	15D	SF			C				
0104		06	13461	13482	1402	N26	W37	5961	03	3.7	16	SF					16		
	KANZ	06	1346	1350	1406	N25	W36	5961	03	3.8	20	SF			C				
	SVTO	06	1347	1348	1357	N26	W38	5961	03	3.6	10	SF			4	E	16		
0105		06	13523	13542	1405	N30	E12	5964	03	7.5	13	SF					46	1.0	
	HTPR	06	1352	1354	1406	N32	E13	5964	03	7.6	14	SF			C	1354	80	1.0	
	KANZ	06	1354	1354	1410	N28	E12	5964	03	7.5	16	SF			C				
	SVTO	06	1355	1356	1359	N29	E10	5964	03	7.4	4	SF			4	E	11		
0106		06	14092	14122	1426	S14	W19	5963	03	5.1	17	SF	C	4.3			78	1.6	FT
	HOLL	06	1408E	1410U	1413D	S13	W17	5963	03	5.3	5D	SF			2	E	31		
	HTPR	06	1409	1412	1425	S14	W17	5963	03	5.3	16	SN			C	1414	150	1.6	T
	RAMY	06	1410	1413	1429	S14	W19	5963	03	5.1	19	SN			3	E	49		F
	KANZ	06	1410	1414	1422D	S14	W20	5963	03	5.1	12D	SF			C				
	SVTO	06	1411	1414	1425	S14	W21	5963	03	5.0	14	SF	C	4.3	4	E	80		
0107	HTPR	06	1438	1442	1447	N32	E13	5964	03	7.6	9	SF			C	1442	50	0.6	
0108		06	14436	14497	1512	S15	W20	5963	03	5.1	29	SF					28	0.3	F
	HTPR	06	1443	1456	1510	S15	W17	5963	03	5.3	27	SF			C	1456	30	0.3	
	HOLL	06	1449	1449	1515	S15	W23	5963	03	4.9	26	SF			3	E	27		F
0109		06	1512*	15261	1538	S14	W21	5963	03	5.0	26	SF	C	2.7			46	0.9	FT
	HTPR	06	1512	1526	1537	S14	W17	5963	03	5.3	25	SF			C	1526	80	0.9	T
	HOLL	06	1518	1526	1540	S15	W24	5963	03	4.8	22	SF			3	E	32		
	SVTO	06	1523	1527	1537	S14	W21	5963	03	5.0	14	SF	C	2.7	4	E	27		F
0110	HOLL	06	1550	1553	1557	S15	W25	5963	03	4.8	7	SF			3	E	16		
0111	HOLL	06	1622	1622	1632	S13	E24	5965	03	8.5	10	SF			3	E	13		
0112	RAMY	06	1640	1645	1655	S13	W18	5963	03	5.3	15	SF			3	E	19		
0113		06	1657*	1718*	1740	S14	W23	5963	03	5.0	43	SF	C	3.3			36		F
	RAMY	06	1657	1719	1747	S13	W22	5963	03	5.0	50	SN	C	3.3	3	E	57		F
	HOLL	06	1707	1718	1727	S14	W23	5963	03	5.0	20	SF			3	E	33		
	HOLL	06	1735	1739	1745	S15	W24	5963	03	4.9	10	SF			3	E	19		F
0114	HOLL	06	1757	1804	1810	S14	W24	5963	03	4.9	13	SF			3	E	41		EF
0115	HOLL	06	1814	1817	1823	S15	W24	5963	03	4.9	9	SF			3	E	15		F

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0116		06 1834	1834	1843	S13	W23	5963	03	5.0	9	SN					22		E	
	HOLL	06 1834	1834	1843	S13	W23	5963	03	5.0	9	SN	3	E			29		E	
	RAMY	06 1834	1835	1843	S13	W23	5963	03	5.0	9	SF	3	E			16			
0117	HOLL	06 1955	1957	2012	N27	W40	5961	03	3.7	17	SF			3	E		25		
0118	HOLL	06 2001	2001	2008	S14	W24	5963	03	5.0	7	SF			3	E		10		F
0119		06 2057	2058	2110	S14	W25	5963	03	5.0	13	SF C 2.0					32		EF	
	HOLL	06 2057	2058	2110	S14	W26	5963	03	4.9	13	SF C 2.0	3	E			30		FE	
	PALE	06 2058	2058	2110	S13	W24	5963	03	5.1	12	SF	3	E			35			
0120	HOLL	06 2119	2125	2130	N27	W41	5961	03	3.7	11	SF			3	E		16		
0121		06 2133	2137	2151	S14	W26	5963	03	4.9	18	SF			3	E		20		F
	HOLL	06 2133	2137	2151	S14	W26	5963	03	4.9	18	SF			3	E		20		F
	PALE	06 2153	2155	2225	S12	W23	5963	03	5.2	32	SF	3	E			17			
0122		06 2152	2155	2218	S12	W23	5963	03	5.2	26	SF C 1.8					24		F	
	HOLL	06 2152	2155	2218	S13	W23	5963	03	5.2	26	SF C 1.8	3	E			31		F	
	PALE	06 2153	2155	2225	S12	W23	5963	03	5.2	32	SF	3	E			17			
0123	HOLL	06 2213	2213	2225	N27	W40	5961	03	3.8	12	SF			3	E		14		
0124	HOLL	06 2310	2314	2317	S14	W27	5963	03	4.9	7	SF			3	E		16		F
0125	LEAR	07 0020	0027	0029	S14	W27	5963	03	5.0	9	SF			2	E		40		F
0126		07 0648	0654	0658	S14	W32	5963	03	4.9	10	SN C 3.2					90	1.8	D	
	PEKG	07 0648	0654	0657	S13	W31	5963	03	4.9	9	SB		C	0654		147	1.8	D	
	LEAR	07 0651E	0651U	0658	S15	W32	5963	03	4.9	7	SF C 3.2	2	E			32			
0127	ISTA	07 0726	0735	0811	S24	W30	5963A	03	5.0	45	SB				P				DEF
0128		07 0733*	0733*	0751	S13	W32	5963	03	4.9	18	SF					66	1.0	DFT	
	HTPR	07 0731E	0733	0743	S13	W35	5963	03	4.7	12	SF		C	0733		30	0.3	T	
	KANZ	07 0733	0736	0740	S14	W32	5963	03	4.9	7	SF		C						
	BUCA	07 0738E		0757	S13	W32	5963	03	4.9	19	1N		P	0738		172	2.1	D	
	HTPR	07 0744	0745	0755	S13	W30	5963	03	5.0	11	SF		C	0745		50	0.6		
	SVTO	07 0745	0745	0800	S14	W32	5963	03	4.9	15	SF		4	E			10		F
0129		07 0748	0751	0805	N29	E02	5964	03	7.5	17	SF					36	0.6	EFT	
	HTPR	07 0748	0751	0800	N32	W01	5964	03	7.2	12	SF		C	0751		50	0.6	T	
	SVTO	07 0748	0751	0807	N29	E02	5964	03	7.5	19	SF		4	E		21		F	
	ISTA	07 0748	0755	0810	N27	E04	5964	03	7.6	22	SF		P					E	
	KANZ	07 0750	0753	0804	N29	E01	5964	03	7.4	14	SF		C						
0130		07 0820	0825	0843	S13	W32	5963	03	4.9	23	SN					63	0.8	ET	
	KAND	07 0820	0825	0840	S13	W33	5963	03	4.8	20	SN		P	0825		83	1.0	ET	
	YUNN	07 0820	0830	0833	S14	W32	5963	03	4.9	13	SB		P			79	1.0		
	HTPR	07 0823	0827	0850	S13	W35	5963	03	4.7	27	SF		C	0827		40	0.5		
	KANZ	07 0826	0829	0837	S14	W31	5963	03	5.0	11	SF		C						
0131	ISTA	07 0825	0827	0844	S24	W30	5963A	03	5.0	19	SN				P				DE
0132		07 0834*	0848	0902	N30	E02	5964	03	7.5	28	SN					40	0.5	DE	
	HTPR	07 0834	0848	0900	N32	W01	5964	03	7.3	26	SF		C	0848		40	0.5		
	ISTA	07 0849	0851	0903	N27	E04	5964	03	7.7	14	SN		P					DE	
0133		07 0858	0906*	0937	S10	E12	5965	03	8.3	39	1N C 2.9					168	1.8	EFHZ	
	HTPR	07 0858	0906	0940	S09	E12	5965	03	8.3	42	SN		C	0906		150	1.5	Z	
	KANZ	07 0858	0906	0945	S10	E11	5965	03	8.2	47	1N		C						
	ISTA	07 0900	0907	0923	S11	E14	5965	03	8.4	23	SB		P					E	
	KAND	07 0900	0907	0935	S10	E12	5965	03	8.3	35	SN		P	0907		125	1.3	E	
	SVTO	07 0902	0911	0944	S12	E12	5965	03	8.3	42	1N C 2.9	3	E			144		FH	
	PEKG	07 0903	0916	0918	S10	E13	5965	03	8.3	15	1B		P	0916		252	2.7	E	

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Grp #	Sta	Start Day	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)		
0134		07 09354	09396	0956	N29	E01	5964	03	7.5	21	SN	C 2.4			94	1.3	EF	
	KAND	07 0935	0939	0952	N29	E02	5964	03	7.5	17	SN		P	0939	62	0.8	E	
	HTPR	07 0937	0942	1000	N32	W01	5964	03	7.3	23	SN		C	0942	110	1.3		
	KANZ	07 0937	0945	1001	N29	E01	5964	03	7.5	24	SN		C					
	SVTO	07 0939	0944	0956	N29	E01	5964	03	7.5	17	SF	C 2.4	3	E		47		F
ATHN	07 0942E	0943U	0950	N27	E04	5964	03	7.7	80	SN		3	V	0943	159	1.9		
0135		07 09371	09392	0943	S14	W34	5963	03	4.8	6	SF				38	0.6	DF	
	KANZ	07 0937	0941	0945	S14	W33	5963	03	4.9	8	SF		C					
	SVTO	07 0938	0939	0942	S14	W34	5963	03	4.8	4	SF		3	E		13		F
	KAND	07 0938	0939	0942	S14	W35	5963	03	4.7	4	SF		P	0939	42	0.5	D	
HTPR	07 0938	0939	0944	S13	W35	5963	03	4.8	6	SF		C	0939	60	0.7			
0136		07 10191	10191	1038	N30	W00	5964	03	7.4	19	SF				40	0.5		
	HTPR	07 1019	1019	1040	N32	W01	5964	03	7.3	21	SF		C	1019	40	0.5		
	KANZ	07 1020	1020	1036	N28	W00	5964	03	7.4	16	SF		C					
0137		07 1053	10561	1108	N30	W00	5964	03	7.4	15	SF				50	0.6		
	HTPR	07 1053	1056	1110	N32	W01	5964	03	7.4	17	SF		C	1056	50	0.6		
	KANZ	07 1053	1057	1105	N28	W00	5964	03	7.4	12	SF		C					
0138		07 10533	1057	1101	N28	W48	5961	03	3.7	8	SF				24			
	KANZ	07 1053	1057	1101	N28	W47	5961	03	3.8	8	SF		C					
	SVTO	07 1056	1057	1101	N28	W48	5961	03	3.7	5	SF		4	E		24		
0139		07 11122	11142	1119	S13	W35	5963	03	4.8	7	SF				47	1.0	F	
	HTPR	07 1112	1114	1120	S13	W35	5963	03	4.8	8	SF		C	1114	80	1.0		
	KANZ	07 1113	1116	1120	S14	W34	5963	03	4.9	7	SF		C					
	SVTO	07 1114	1115	1118	S13	W35	5963	03	4.8	4	SF		4	E		14		F
0140		07 11432	11462	1205	N29	W00	5964	03	7.5	22	SF				46	0.9	F	
	HTPR	07 1143	1148	1210	N32	W01	5964	03	7.4	27	SF		C	1148	70	0.9		
	SVTO	07 1145	1146	1200	N28	E00	5964	03	7.5	15	SF		4	E		21		F
	KANZ	07 1145	1148	1200D	N28	W00	5964	03	7.5	15D	SN		C					
0141		07 1216	12193	1236	N12	W66		03	2.5	20	SF				32	0.7	E	
	HTPR	07 1216	1219	1230	N09	W62		03	2.8	14	SF		C	1219	30	0.7	E	
	SVTO	07 1216	1222	1242	N15	W71		03	2.1	26	SF		4	E		33		
0142	HTPR	07 1321	1322	1335	N32	W01	5964	03	7.5	14	SF		C	1322	60	0.7		
0143		07 13538	13577	1414	N11	E46	5966	03	11.0	21	SF	C 1.3			64	1.6	F	
	HTPR	07 1353	1357	1415	N14	E48	5966	03	11.2	22	SF		C	1357	110	1.6		
	SVTO	07 1354	1358	1422	N10	E45	5966	03	11.0	28	SF	C 1.3	4	E		59		F
	RAMY	07 1359E	1404	1412	N10	E45	5966	03	11.0	13D	SF		3	E		36		F
	HOLL	07 1401	1401	1409	N11	E44	5966	03	10.9	8	SF		3	E		49		F
0144	HOLL	07 1408E	1410U	1413D	S13	W17	5963	03	6.3	50	SF		2	E		31		
0145		07 15231	15251	1538	N30	W02	5964	03	7.5	15	SN	C 1.3			68	1.3	U	
	HTPR	07 1523	1526	1540	N32	W01	5964	03	7.6	17	SN		C	1526	100	1.3		
	SVTO	07 1524	1525	1536	N29	W03	5964	03	7.4	12	SF	C 1.3	4	E		37		U
0146		07 19445	19474	2005	N28	W04	5964	03	7.5	21	SN	C 2.1			32		EK	
	HOLL	07 1944	1947	2006	N28	W04	5964	03	7.5	22	SF	C 2.1	4	E		48		E
	HOLL	07 1944	1951	2006	N28	W04	5964	03	7.5	22	SB		E		30		K	
	RAMY	07 1949	1949	2004	N27	W04	5964	03	7.5	15	SF		3	E		19		
0147		07 2014	2014	2028	S11	E06	5965	03	8.3	14	SF				18			
	RAMY	07 2014	2014	2027D	S11	E07	5965	03	8.4	130	SF		3	E		15		
	HOLL	07 2014	2014	2028	S11	E05	5965	03	8.2	14	SF		4	E		21		
0148	VORO	07 2317E	2325	2348	N31	W07	5964	03	7.4	310	SF		2	C	2325	90	1.1	DHJ
0149		07 2331	2329*	2409	S15	W40	5963	03	4.9	38	SF				94	1.2	DEJ	
	VORO	07 2317E	2329	2356	S16	W41	5963	03	4.9	390	SF		2	C	2329	108	1.5	EJ
	VORO	07 2331	2353	2422	S14	W39	5963	03	5.0	51	SF		2	C	2353	81	1.0	DJ
0150	HOLL	07 2328E	2330	2350	S36	W14	5963B	03	6.8	220	SF		3	E		22		F

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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)	
0151	08 0003	00051	0034	N30 W07 5964	03	7.4	34	1N	C	4.6			110	2.5	EFJ	
	VORO 08 0000	0006	0038	N31 W07 5964	03	7.4	38	1N			2	C	0006	197	2.5	EJ
	HOLL 08 0003	0005	0030	N29 W07 5964	03	7.4	27	SF	C	4.6	3	E		24		FE
0152	VORO 08 0256		0301D	S10 E03 5965	03	8.3	50	1N			2	C				EI
	08 0332		0359	No Flare Patrol												
0153	KANZ 08 0712	0712	0720	N28 W12 5964	03	7.4	8	SF				C				
0154	08 0734I	0737I	0750	N29 W10 5964	03	7.5	16	SN	C	4.9			67	0.9	EFW	
	LEAR 08 0734	0737	0745	N28 W11 5964	03	7.4	11	SF			3	E	50		F	
	ISTA 08 0735	0737	0750	N29 W12 5964	03	7.4	15	1B				P			W	
	KAND 08 0735	0738	0750	N29 W11 5964	03	7.4	15	SB				P	0738	104	1.3	E
	PURP 08 0736E	0738	0745D	N29 W10 5964	03	7.5	9D	SB				C	0738	41	0.5	E
	SVTO 08 0736E	0738	0754	N31 W05 5964	03	7.9	18D	SN	C	4.9	3	E		74		
	KANZ 08 0741E	0741U	0752	N28 W11 5964	03	7.5	11D	SF				C				
0155	08 1042A	1046A	1110	N18 E34 5966	03	11.0	28	SF					83	1.1	EG	
	KANZ 08 1042	1046	1116	N19 E33 5966	03	11.0	34	SF				C				
	KAND 08 1046	1048	1105	N18 E34 5966	03	11.0	19	SF				P	1048	83	1.1	EG
0156	KANZ 08 1254	1254	1300	S13 W09 5965	03	7.8	6	SF				C				
0157	08 1316	1316*	1340	S13 W02 5965	03	8.4	24	SF					15			
	RAMY 08 1316	1316	1332	S13 W02 5965	03	8.4	16	SF			3	E	15			
	KANZ 08 1322E	1334	1349	S13 W02 5965	03	8.4	27D	SF				C				
0158	KANZ 08 1334	1338	1353	N28 W14 5964	03	7.5	19	SF				C				
0159	08 1353	1353	1424	S16 W50 5963	03	4.8	31	SF					22		F	
	HOLL 08 1343E	1343U	1420D	S14 W48 5963	03	4.9	37D	SF			2	E	30		F	
	RAMY 08 1353	1353	1424	S16 W50 5963	03	4.8	31	SF			3	E	15			
	KANZ 08 1353	1356U	1356D	S18 W51 5963	03	4.7	3D	SF				C				
0160	HOLL 08 1403E	1405U	1423	S12 W03 5965	03	8.3	20D	SF			3	E	20		F	
0161	RAMY 08 1655	1702	1720	N29 W15 5964	03	7.5	25	SN	C	9.1	3	E	60			
0162	HOLL 08 1757	1820	1915	S13 W05 5965	03	8.4	78	SF	C	1.8	3	E	53		F	
0163	HOLL 08 2203	2204	2210D	N31 W11 5964	03	8.0	7D	SF	C	1.1	2	E	30			
	08 2210		2219	No Flare Patrol												
0164	09 0705E	0711U	0736	S11 W12 5965	03	8.4	31D	SN	C	1.9			102	2.0	F	
	YUNN 09 0705E	0711U	0724D	S11 W11 5965	03	8.5	19D	SN				P	0711	189	2.0	
	LEAR 09 0712E		0736	S11 W12 5965	03	8.4	24D	SF	C	1.9	3	E		15		F
0165	09 08355	08385	0851	S11 W14 5965	03	8.3	16	SN	C	1.4			58	0.9	E	
	SVTO 09 0835	0838	0851	S11 W14 5965	03	8.3	16	SF	C	1.4	3	E		32		
	KAND 09 0840	0843	0911D	S11 W14 5965	03	8.3	31D	SB				P	0843	83	0.9	E
	09 1241		1249	No Flare Patrol												
09 1401		1404	No Flare Patrol													
09 1540		1558	No Flare Patrol													
09 1604		1614	No Flare Patrol													
09 1620		1633	No Flare Patrol													
09 1644		1658	No Flare Patrol													
09 1703		1725	No Flare Patrol													
09 1818		1938	No Flare Patrol													
09 1949		1952	No Flare Patrol													
09 1956		2018	No Flare Patrol													
09 2028		2032	No Flare Patrol													
09 2045		2050	No Flare Patrol													
09 2245		2322	No Flare Patrol													
10 0405		0428	No Flare Patrol													
0166	LEAR 10 0655	0657	0708	N29 W35 5964	03	7.5	13	SF	C	2.1	4	E				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
			10 0732		0737			No Flare Patrol												
			10 0751		0837			No Flare Patrol												
			10 1249		1258			No Flare Patrol												
			10 1327		1332			No Flare Patrol												
0167	RAMY	10	1412	1414U	1424	N30	W39	5964	03	7.5	12	SF	C	2.6	2	E		77		
			10 1619		1628			No Flare Patrol												
			10 2152		2200			No Flare Patrol												
0168	YUNN	11	0042E	0043	0046	N20	E37	5967	03	13.8	4D	SN				P		79	1.2	
0169	SVTO	11	0924	0927	0930	N32	E58	5969	03	16.0	6	SF		4	E			18		
0170	SVTO	11	1229	1229	1237	N33	E56	5969	03	16.0	8	SF		4	E			31		
0171	SVTO	11	1318	1319	1324	N32	E55	5969	03	15.9	6	SF		4	E			52		
0172		11	15274	1535*	1600	N32	E56	5969	03	16.1	33	SF						34		FHU
	HOLL	11	1527	1536	1603	N31	E57	5969	03	16.1	36	SF		3	E			45		FH
	SVTO	11	1528	1601	1614	N33	E58	5969	03	16.2	46	SF		4	E			24		U
	KANZ	11	1531	1535	1542	N31	E54	5969	03	15.9	11	SF				C				
0173		11	15482	15503	1600	S11	W43	5965	03	8.4	12	SF						26		F
	HOLL	11	1548	1552	1602	S10	W42	5965	03	8.5	14	SF		4	E			23		
	SVTO	11	1548	1553	1605	S12	W45	5965	03	8.3	17	SF		4	E			28		F
	KANZ	11	1550	1550	1554	S11	W41	5965	03	8.6	4	SF				C				
		11	1649		1700			No Flare Patrol												
		11	1715		1756			No Flare Patrol												
0174		11	1857*	1910U	1918	N30	E52	5969	03	15.9	21	SF						27		F
	HOLL	11	1857	1913U	1921D	N30	E54	5969	03	16.0	24D	SF		3	E			37		F
	PALE	11	1910	1910U	1918	N30	E51	5969	03	15.8	8	SF		3	E			17		F
0175	HOLL	11	1958	1959	2036	N30	E53	5969	03	16.0	38	SN	C	2.1	3	E		75		EF
0176	HOLL	11	2104	2104	2110	N30	E54	5969	03	16.1	6	SF		3	E			17		F
0177		11	2149*	2155*	2214	N30	E55	5969	03	16.2	25	SF	C	1.0				36		EFH
	HOLL	11	2149	2155	2206	N29	E56	5969	03	16.3	17	SN		3	E			46		FE
	HOLL	11	2207	2212	2214	N30	E56	5969	03	16.3	7	SF		3	E			35		FH
	HOLL	11	2217	2219	2223	N30	E53	5969	03	16.1	6	SF	C	1.0	3	E		27		FH
0178	HOLL	11	2225	2227	2233	N10	W14	5966	03	10.9	8	SF		3	E			36		F
0179		11	2320*	2320*	2340	N10	W14	5966	03	10.9	20	SF						19		F
	HOLL	11	2320	2320	2335	N11	W14	5966	03	10.9	15	SF		3	E			14		F
	HOLL	11	2336	2338	2346	N10	W15	5966	03	10.8	10	SF		3	E			24		F
0180		12	00515	00562	0108	N30	E54	5969	03	16.3	17	1N	C	1.0				164	6.5	D
	PEKG	12	0051	0058	0108	N31	E55	5969	03	16.4	17	2B			P	0058		294	6.5	D
	LEAR	12	0056	0056	0107	N29	E53	5969	03	16.2	11	SF	C	1.0	3	E		35		
0181	PEKG	12	0428	0431	0437	N31	E45	5969	03	15.7	9	2B				C	0431	294	5.6	E
0182		12	04477	04541	0504	N31	E53	5969	03	16.4	17	SN						46	1.4	D
	PEKG	12	0447	0455	0505	N31	E53	5969	03	16.4	18	SB			P	0455		63	1.4	D
	LEAR	12	0454	0454	0502	N31	E53	5969	03	16.4	8	SF		3	E			29		
0183		12	05306	05371	0550	N32	E54	5969	03	16.5	20	SN	C	1.1				50	0.9	D
	PEKG	12	0530	0537	0545	N31	E53	5969	03	16.4	15	SB				C	0537	42	0.9	D
	ABST	12	0535E	0539U	0541D	N34	E57	5969	03	16.8	6D	SF				P	0539	87		D
	LEAR	12	0536	0538	0555	N31	E52	5969	03	16.3	19	SF	C	1.1	3	E		20		
0184		12	06003	06041	0613	N31	E54	5969	03	16.5	13	SN	C	1.1				50	1.4	D
	PEKG	12	0600	0605	0613	N31	E54	5969	03	16.5	13	SB				P	0605	63	1.4	D
	LEAR	12	0603	0604	0613	N31	E53	5969	03	16.4	10	SF	C	1.1	3	E		36		

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														Apparent (10-6 Disk)	Corr (Sq Deg)	
0202		13	06484	0653*	0756	N32	E37	5969	03	16.2	68	1N C 6.1		155	3.4	DEFIK
	LEAR	13	0648	0653	0757	N31	E36	5969	03	16.1	69	SF C 6.1 4	E	61		F
	LEAR	13	0648	0719	0757	N31	E36	5969	03	16.1	69	SF	E	122		K
	MITK	13	0649	0656	0724D	N33	E37	5969	03	16.2	35D	SN	C	0656		E
	ABST	13	0652	0657	0701	N31	E39	5969	03	16.4	9	SF	C	0657	1.4	D
	KANZ	13	0705E	0705U	0805	N30	E37	5969	03	16.2	60D	SF	C			
	ISTA	13	0724E		0816	N31	E38	5969	03	16.3	52D	1B	P			FI
	HTPR	13	0730E		0820	N37	E37	5969	03	16.3	50D	2N	C	0739	350	5.5
0203		13	07249	0724*	0739	S34	E25		03	15.3	15	SF			40	0.5
	KANZ	13	0724	0724	0739	S34	E25		03	15.3	15	SF	C			
	HTPR	13	0733	0737	0739	S33	E25		03	15.3	6	SF	C	0737	40	0.5
0204	ISTA	13	0754		0816	S10	W68	5965	03	8.2	22	SN	P			E
0205	KANZ	13	1022	1030	1038	S13	W68	5965	03	8.3	16	SF	C			
0206	HTPR	13	1035	1040	1050	N37	E37	5969	03	16.4	15	SF	C	1040	80	1.2
0207		13	11486	11542	1208	S33	E88	5974	03	20.5	20	SF			50	
	HTPR	13	1148	1156	1210	S32	E90	5974	03	20.6	22	SF	C	1156	50	AT
	KANZ	13	1154	1154	1205	S34	E86	5974	03	20.3	11	SF	C			AT
0208	HTPR	13	1245	1249	1315	N37	E37	5969	03	16.5	30	SF	C	1249	100	1.6
0209	KANZ	13	1300	1304	1315	S34	E86	5974	03	20.4	15	SF	C			
0210	HTPR	13	1340	1344	1415	N37	E37	5969	03	16.5	35	SF	C	1344	70	1.1
0211	HOLL	13	1504	1508	1517	N30	E32	5969	03	16.1	13	SF	3 E		16	F
0212	HTPR	13	1520E		1536D	S32	E90	5974	03	20.8	16D	1N	C	1520	130	AB
0213	HTPR	13	1531	1534	1536D	N37	E37	5969	03	16.6	5D	SF	C	1534	90	1.4
0214	HOLL	13	1959	2001	2015	S35	E84	5974	03	20.5	16	1N C 5.6	3 E		126	
0215	HOLL	13	2114	2117	2126	N31	E30	5969	03	16.2	12	SF	3 E		16	
0216		13	2137	21458	2233	N32	E28	5969	03	16.1	56	1N M 1.1			149	EFK
	HOLL	13	2137	2145	2231	N32	E28	5969	03	16.1	54	1N	E		143	K
	HOLL	13	2137	2153	2231	N32	E28	5969	03	16.1	54	1N M 1.1	3 E		220	FE
	PALE	13	2146E	2146U	2237	N33	E28	5969	03	16.1	51D	SF	3 E		85	F
0217	HOLL	13	2154	2155	2158	N29	W78	5964	03	7.8	4	SF	3 E		53	
0218	HOLL	13	2238	2240	2256	S35	E88	5974	03	21.0	18	SF C 2.4	3 E		85	
0219		14	01009	01107	0122	N32	E29	5969	03	16.3	22	SF C 5.5			47	1.3
	PEKG	14	0100	0111	0115	N32	E30	5969	03	16.4	15	SF	C	0111	84	1.3
	LEAR	14	0107	0110	0127	N31	E28	5969	03	16.2	20	SF C 5.5	3 E		19	D
	PALE	14	0109	0117	0125	N32	E29	5969	03	16.3	16	SF	3 E		39	F
0220	PEKG	14	0106	0108	0112	S32	E84	5974	03	20.7	6	1B	C	0108	139	D
0221		14	0342*	0402*	0538	N33	E26	5969	03	16.2	116	1N C 6.4			144	3.4
	PEKG	14	0342	0402	0555	N32	E26	5969	03	16.2	133	SN	C	0406	126	2.0
	PEKG	14	0342	0505	0555	N32	E26	5969	03	16.2	133	1N	C	0502	315	4.7
	PALE	14	0354	0419	0431	N34	E26	5969	03	16.2	37	SF	3 E		28	E
	LEAR	14	0354	0500	0612	N33	E25	5969	03	16.1	138	1F C 6.4	3 E		107	F
0222	LEAR	14	0427	0433	0436	S34	E85	5974	03	21.0	9	SF	3 E		60	H
0223		14	05227	05258	0547	S33	E78	5974	03	20.4	25	1N C 7.3			125	DK
	LEAR	14	0522	0525	0550	S33	E77	5974	03	20.3	28	SF	E		72	K
	LEAR	14	0522	0533	0550	S33	E77	5974	03	20.3	28	1F C 7.3	3 E		163	
	PEKG	14	0529	0533	0540	S32	E80	5974	03	20.6	11	1B	C	0533	139	D

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Area Measurement			Remarks				
								USAF Region					Mo	Day	(Min)		Opt	Xray	See	Type
0224		14	07194	07251	0739	S32	E81	5974	03	20.7	20	1N	C	3.9		165		ADF		
	KANZ	14	0718E	0726	0735	S34	E82	5974	03	20.8	17D	1F						F		
	LEAR	14	0719	0725	0736	S34	E79	5974	03	20.6	17	1F	C	3.9	3			D		
	PEKG	14	0723	0726	0735	S32	E79	5974	03	20.6	12	1B				0726	139	A		
	BUCA	14	0730E		0749	S30	E83	5974	03	20.8	19D	2B				0730	215			
0225		14	0747*	0747*	0832	N32	E24	5969	03	16.2	45	SN					80	1.5	DEF	
	ISTA	14	0747		0755	N30	E27	5969	03	16.4	8	SN							E	
	KANZ	14	0747	0747	0755	N30	E25	5969	03	16.3	8	SF								
	LEAR	14	0747	0747	0757	N31	E26	5969	03	16.4	10	SF			3				F	
	BUCA	14	0749	0749	0900	N33	E21	5969	03	16.0	71	SF				0749	107	1.6	E	
	KAND	14	0830	0840	0910	N33	E21	5969	03	16.0	40	SN				0840	83	1.2	EF	
	PEKG	14	0839E	0852	0912	N33	E24	5969	03	16.3	33D	SN				0852	105	1.6	D	
0226		14	08481	0849	0857	S33	E84	5974	03	21.0	9	SF					50			
	HTPR	14	0848	0849	0900	S32	E90	5974	03	21.5	12	1N				0849	90			
	LEAR	14	0849	0849	0854	S34	E80	5974	03	20.7	5	SF			3				11	
	KANZ	14	0849	0849	0857	S33	E81	5974	03	20.8	8	SF								
0227		14	10075	1012	1024	S33	E80	5974	03	20.8	17	SF					50			
	HTPR	14	1007	1012	1030	S32	E80	5974	03	20.7	23	SF				1012	50			
	KANZ	14	1012	1012	1019	S34	E79	5974	03	20.7	7	SF								
0228	HTPR	14	1100	1106	1130	N15	W80	5964A	03	8.4	30	SF				1106	20		A	
0229	HTPR	14	1127	1128	1131	S32	E80	5974	03	20.8	4	SF				1128	30		D	
		14	1402		1406	No Flare Patrol														
0230	HOLL	14	1542	1557	1611	N30	E20	5969	03	16.2	29	SF	C	1.8	3	E		46		F
0231		14	1624	16329	1709	S35	E76	5974	03	20.8	45	SF						52		K
	HOLL	14	1624	1632	1709	S35	E76	5974	03	20.8	45	SF			3	E		50		
	HOLL	14	1624	1641	1709	S35	E76	5974	03	20.8	45	SF				E		53		K
0232	PALE	14	1701E	1701U	1719	N20	W09	5967	03	14.0	18D	SF			3	E		15		F
0233		14	17475	17548	1807	N28	W09	5971	03	14.0	20	SN						89		EFHK
	HOLL	14	1747	1754	1809	N27	W09	5971	03	14.0	22	1N			3	E		197		FE
	HOLL	14	1747	1802	1809	N27	W09	5971	03	14.0	22	SN				E		30		K
	RAMY	14	1748	1752U	1806	N28	W08	5971	03	14.1	18	SF			2	E		66		FH
	PALE	14	1752	1754	1804	N28	W10	5971	03	14.0	12	SF			3	E		62		F
0234		14	18421	18466	1902	S34	E76	5974	03	20.8	20	SF	C	7.0				64		K
	HOLL	14	1842	1846	1902	S35	E75	5974	03	20.8	20	SN				E		84		K
	PALE	14	1842	1852	1901	S33	E76	5974	03	20.8	19	SF			3	E		42		
	HOLL	14	1842	1852	1902	S35	E75	5974	03	20.8	20	SF	C	7.0	3	E		78		
	RAMY	14	1843	1852	1901	S35	E76	5974	03	20.8	18	SF			3	E		53		
0235	HOLL	14	2020	2022	2036	N17	W13	5967	03	13.8	16	SF			3	E		34		
0236		14	20342	20431	2050	N31	E18	5969	03	16.3	16	SF						16		F
	RAMY	14	2034	2044	2050	N31	E18	5969	03	16.3	16	SF			3	E		17		F
	HOLL	14	2036	2043	2049	N31	E18	5969	03	16.3	13	SF			3	E		14		F
0237	HOLL	14	2043	2046	2053	S34	E72	5974	03	20.6	10	SF			3	E		29		
0238	HOLL	14	2120	2120	2125	N33	E13	5969	03	15.9	5	SF			3	E		13		H
0239	HOLL	14	2315	2318	2322	S35	E74	5974	03	20.9	7	SF			3	E		16		
0240	HOLL	14	2326	2327	2336	S19	E33	5969A	03	17.5	10	SF			3	E		10		
0241	HOLL	14	2349	2351	2401	N31	E12	5969	03	15.9	12	SF			3	E		39		
0242	HOLL	15	0013	0016	0024	S35	E69	5974	03	20.5	11	SF	C	1.5	3	E		16		
0243	PALE	15	0039	0046	0053	S33	E71	5974	03	20.7	14	SF			3	E		33		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	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)	
0244	LEAR	15	0114	0120	0137	N31	E12	5969	03	16.0	23	SF	3	E		26		
0245	LEAR	15	0159	0203	0207	S34	E71	5974	03	20.7	8	SF	3	E		20		
0246	LEAR	15	0513	0514	0531	S34	E63	5974	03	20.2	18	SF	C 2.9	3	E		30	
0247	PURP	15	0744	0750	0752D	N42	E49	5976	03	19.3	8D	SF		C	0750	48		
0248	ISTA	15	0827		0832	N43	E51	5976	03	19.5	5	SN		P				E
		15	1051		1105	No Flare Patrol												
0249	ISTA	15	1148		1158	N42	E51	5976	03	19.7	10	1N		P				J
0250	RAMY	15	1338	1340	1400	N19	W22	5967	03	13.9	22	SF	3	E		21		
0251		15	1353	1355	1410	S35	E62	5974	03	20.5	17	SF	C 3.3			40		FH
	RAMY	15	1353	1355	1410	S36	E62	5974	03	20.5	17	SF	C 3.3	3	E	32		F
	HOLL	15	1353	1355	1422D	S34	E61	5974	03	20.4	29D	SF		2	E	49		FH
0252	HOLL	15	1602	1622	1633	S34	E62	5974	03	20.6	31	SF	3	E		28		F
0253		15	1719*	1737*	1754	N33	E05	5969	03	16.1	35	SF				32		F
	RAMY	15	1719	1742U	1758D	N32	E06	5969	03	16.2	39D	SF	2	E		28		F
	PALE	15	1734	1737	1740	N34	E08	5969	03	16.4	6	SF	3	E		22		F
	HOLL	15	1757	1759	1807	N32	E01	5969	03	15.8	10	SF	3	E		46		F
0254		15	17512	17544	1808	N38	E44	5976	03	19.3	17	SF				36		F
	RAMY	15	1751	1754	1814	N37	E44	5976	03	19.3	23	SF	2	E		37		F
	HOLL	15	1753	1758	1802	N40	E45	5976	03	19.4	9	SF	3	E		35		F
0255	PALE	15	2125	2127	2138	S37	E65	5974	03	21.1	13	SF	C 3.9	4	E		32	
0256		16	02482	02492	0300	N31	W03	5969	03	15.9	12	SF	C 3.6			26		F
	LEAR	16	0248	0249	0304	N31	W03	5969	03	15.9	16	SF	C 3.6	4	E	37		F
	PALE	16	0250	0251	0255	N31	W03	5969	03	15.9	5	SF		3	E	14		F
0257	LEAR	16	0338	0339	0342	S34	E51	5974	03	20.2	4	SF	C 2.1	4	E		24	F
0258	LEAR	16	0411	0416	0421	S35	E56	5974	03	20.6	10	SF	C 2.7	4	E		13	F
0259		16	04533	0458	0511	S36	E56	5974	03	20.7	18	1N	C 2.5			94	2.6	E
	PEKG	16	0453	0458	0506	S35	E57	5974	03	20.8	13	1N		P	0458	126	2.6	E
	LEAR	16	0456	0458	0516	S37	E56	5974	03	20.7	20	SF	C 2.5	3	E	63		
0260	KHAR	16	0819U	0820U	0834	S34	E52	5974	03	20.5	15U	SF	2	V	0820			DL
0261		16	10339	10395	1048	N35	W04	5969	03	16.1	15	SF				70	0.9	EK
	HTPR	16	1033	1039	1048	N35	W05	5969	03	16.0	15	SF		C	1039	50	0.6	K
	HTPR	16	1033	1043	1048	N35	W05	5969	03	16.0	15	SF		C	1043	90	1.2	K
	KHAR	16	1042	1044	1049	N36	W03	5969	03	16.2	7	SF	2	V	1044			E
0262		16	1052	1112	1145	N31	W08	5969	03	15.8	53	SN	C 2.9			52	0.9	
	HTPR	16	1052	1112	1145	N32	W08	5969	03	15.8	53	SN		C	1112	70	0.9	
	RAMY	16	1110E	1111U	1154D	N30	W08	5969	03	15.8	44D	SF	C 2.9	2	E	33		
0263	HTPR	16	1056	1057	1105	S33	E60	5974	03	21.2	9	SF		C	1057	30	0.5	
0264	HTPR	16	1109	1111	1130	S33	E60	5974	03	21.2	21	SF		C	1111	30	0.5	
0265		16	12055	1215	1225	S34	E57	5974	03	21.0	20	SF	C 3.4			35	1.1	F
	HTPR	16	1205	1215	1225	S33	E60	5974	03	21.3	20	SF		C	1215	60	1.1	F
	RAMY	16	1210	1210U	1220D	S35	E54	5974	03	20.8	10D	SF	C 3.4	2	E	10		F
0266	HTPR	16	1225	1230	1236D	N20	E68	5978	03	21.7	11D	SF		C	1230	20	0.5	
		16	1237		1244	No Flare Patrol												
		16	1302		1314	No Flare Patrol												
		16	1330		1334	No Flare Patrol												

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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)	
0267	HTPR	16	1439E	1444	1500	S30 E90	5983	03 23.7	21D	1N		C	1444	50		A
0268		16	14453	14593	1550	N15 E62	5978	03 21.3	65	1F C 4.8				180	5.0	FU
	HOLL	16	1445	1459	1550	N15 E63	5978	03 21.4	65	1F C 4.8	3	E		126		
	KANZ	16	1446	1502	1551	N14 E62	5978	03 21.3	65	1F		C				
	HTPR	16	1448	1501	1552D	N18 E68	5978	03 21.8	64D	1N		C	1501	200	5.0	U
	RAMY	16	1509E	1509U	1610D	N16 E62	5978	03 21.3	61D	1F	2	E		149		F
	SVTO	16	1521E	1524U	1529D	N14 E57	5978	03 20.9	8D	1F	2	E		244		
0269	HOLL	16	1539	1604	1609	S34 E54	5974	03 20.9	30	SF		E		10		
0270		16	1613	1632	1652	S34 E54	5974	03 21.0	39	SF C 3.5				62	1.6	B
	HOLL	16	1613	1632	1652	S34 E53	5974	03 20.9	39	SF C 3.5	4	E		23		
	HTPR	16	1621E		1632D	S33 E55	5974	03 21.0	11D	SF		C	1621	100	1.6	B
0271	HOLL	16	1729	1735	1741	S33 E52	5974	03 20.8	12	SF		E		11		
0272	HOLL	16	1747	1750	1756	S33 E52	5974	03 20.9	9	SF		E		16		
0273		16	1817	19107	1959	S34 E51	5974	03 20.8	102	SN				23		K
	HOLL	16	1817	1910	1959	S34 E51	5974	03 20.8	102	SB		E		24		K
	HOLL	16	1817	1917	1959	S34 E51	5974	03 20.8	102	SF	4	E		22		
0274	HOLL	16	1917	1917	1923	N35 W09	5969	03 16.1	6	SF		E		22		
0275	HOLL	16	2018	2018	2024	N14 E61	5978	03 21.4	6	SF		E		17		
0276		17	09155	09195	0938	N30 W18	5969	03 16.0	23	SF				17		
	KANZ	17	0915	0919	0926D	N30 W17	5969	03 16.0	11D	SF		C				
	SVTO	17	0920	0924	0938	N31 W18	5969	03 16.0	18	SF	3	E		17		
0277		17	0937	1010	1035	S34 E41	5974	03 20.7	58	SF				23		
	SVTO	17	0937	1010	1035	S33 E41	5974	03 20.6	58	SF	3	E		23		
	KANZ	17	1012E		1024D	S34 E41	5974	03 20.7	12D	SF		C				
0278	SVTO	17	1024	1028	1048	N31 W18	5969	03 16.0	24	SF		E		17		
0279		17	1139	1139	1151	S36 E40	5974	03 20.7	12	SF				15		
	KANZ	17	1139	1139	1151	S37 E41	5974	03 20.8	12	SF		C				
	RAMY	17	1140E	1143U	1148D	S34 E38	5974	03 20.5	8D	SF	2	E		15		
0280	KANZ	17	1257	1300	1304	S37 E41	5974	03 20.8	7	SF		C				
0281		17	14057	14125	1429	N15 E68		03 22.7	24	SF				16		H
	KANZ	17	1405	1412	1432	N15 E68		03 22.7	27	SF		C				
	RAMY	17	1406	1429U	1434	N14 E68		03 22.7	28	SF	3	E		15		H
	HOLL	17	1412	1417	1422	N15 E69		03 22.8	10	SF	3	E		16		
0282		17	14491	1450	1456	N34 W19	5969	03 16.1	7	SF				20		F
	HOLL	17	1449	1450	1454	N34 W19	5969	03 16.1	5	SF	3	E		22		F
	RAMY	17	1449	1450	1455	N34 W19	5969	03 16.1	6	SF	3	E		18		F
	KANZ	17	1450	1450	1458	N33 W19	5969	03 16.1	8	SF		C				
0283		17	16052	16101	1622	S34 E38	5974	03 20.7	17	SF C 2.9				44		F
	RAMY	17	1605	1611	1627	S35 E40	5974	03 20.9	22	SF C 2.9	3	E		44		F
	HOLL	17	1607	1610	1617	S34 E35	5974	03 20.5	10	SF	3	E		43		F
0284	HOLL	17	1613	1613	1619	N33 W19	5969	03 16.2	6	SF		E		28		
0285		17	17101	17115	1738	S35 E40	5974	03 20.9	28	SF C 5.9				48		F
	HOLL	17	1710	1716	1737	S35 E40	5974	03 20.9	27	SF	3	E		59		F
	RAMY	17	1711	1711	1739	S35 E39	5974	03 20.8	28	SF C 5.9	3	E		36		F
0286		17	1800*	1802*	1814	S35 E39	5974	03 20.9	14	SF				19		EF
	HOLL	17	1800	1802	1809	S36 E41	5974	03 21.0	9	SF	3	E		20		FE
	PALE	17	1801	1802	1808	S34 E34	5974	03 20.5	7	SF	3	E		18		F
	PALE	17	1811	1814	1824	S35 E41	5974	03 21.0	13	SF	3	E		19		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0287		17	1822	1822	1832	N37	W18	5969	03	16.3	10	SF					29		F	
	PALE	17	1822	1822	1831	N38	W19	5969	03	16.2	9	SF		3	E		17			
	RAMY	17	1822	1822	1832	N37	W17	5969	03	16.4	10	SF		3	E		15		F	
	HOLL	17	1822	1823	1832	N37	W18	5969	03	16.3	10	SF		3	E		54		F	
0288	HOLL	17	1856	1856	1913	N32	W24	5969	03	15.9	17	SF		4	E		18			
0289		17	1939*	1943*	2002	N15	E48	5978	03	21.4	23	SF					44		F	
	RAMY	17	1939	1945	2000	N15	E48	5978	03	21.4	21	SF		3	E		23			
	HOLL	17	1940	1943	1952	N15	E48	5978	03	21.4	12	SF		4	E		36			
	HOLL	17	1957	2000	2013	N14	E47	5978	03	21.4	16	SF		4	E		73		F	
0290	HOLL	17	2031	2034	2036	N31	W24	5969	03	16.0	5	SF		4	E		17		F	
0291		17	2102	2104	2114	N30	W24	5969	03	16.0	12	SF					18		F	
	RAMY	17	2102	2108	2122	N31	W23	5969	03	16.1	20	SF		3	E		15		F	
	HOLL	17	2103	2104	2107	N30	W26	5969	03	15.8	4	SF		3	E		21			
0292	HOLL	17	2132	2132	2145	S32	E84	5983	03	24.5	13	SF		3	E		30			
0293	HOLL	17	2140	2142	2145	N31	W24	5969	03	16.0	5	SF		3	E		17			
		17	2225		2303	No Flare Patrol														
		17	2327		2329	No Flare Patrol														
0294	VORO	18	0031	0037	0047	S38	E37	5974	03	21.0	16	1F		2	C	0037	170	2.5	EJ	
0295	VORO	18	0102	0105	0131	N39	W31	5969	03	15.5	29	1F		2	C	0105	134	2.4	E1JT	
0296		18	0510	0515	0530	N28	W29	5969	03	15.9	20	SN					108	1.9	EFH	
	PEKG	18	0510	0515	0530	N29	W30	5969	03	15.9	20	SN			P	0515	126	1.9	E	
	SVTO	18	0518E	0521U	0540D	N28	W28	5969	03	16.0	22D	SF		1	E		91		FH	
0297	SVTO	18	0624	0625	0717D	N17	E41	5978	03	21.4	53D	SF		2	E		38		H	
0298		18	0828	0834	0841	N34	W28	5969	03	16.1	13	SF	C 2.2				32		F	
	SVTO	18	0828	0836U	0843D	N33	W27	5969	03	16.2	15D	SF	C 2.2	2	E		32		F	
	KANZ	18	0831	0834	0841	N34	W29	5969	03	16.0	10	SF			C					
0299	KANZ	18	1029	1029	1033	S31	E79	5983	03	24.7	4	SF			C					
0300		18	1045	1048	1058	S32	E75	5983	03	24.4	13	1N					110		H	
	KANZ	18	1045	1049	1057	S32	E77	5983	03	24.5	12	SN			C					
	SVTO	18	1047E	1048	1059	S32	E73	5983	03	24.2	12D	1F		2	E		110		H	
0301		18	1053	1113	1155	N29	W33	5969	03	15.9	62	1F			C					
	SVTO	18	1053	1113	1155	N29	W33	5969	03	15.9	62	1F			C					
	KANZ	18	1053	1113	1155	N29	W33	5969	03	15.9	62	1F			C					
	RAMY	18	1101	1119	1204	N29	W29	5969	03	16.2	63	1N		3	E		120		F	
0302		18	1115	1130	1220	S35	E31	5974	03	20.9	65	1B	M 3.2				130	2.5		
	SVTO	18	1115	1130	1220	S35	E31	5974	03	20.9	65	1B	M 3.2	3	E		133			
	KANZ	18	1116	1128	1220	S35	E32	5974	03	21.0	64	2N			C					
	RAMY	18	1120	1127	1206	S35	E30	5974	03	20.9	46	SB		3	E		65			
	ATHN	18	1130	1140	1145	S37	E30	5974	03	20.9	15	1N		2	V	1140	191	2.5		
0303	RAMY	18	1123	1124	1128	S33	E77	5983	03	24.6	5	SF		3	E		18			
0304		18	1337*	1401	1435	N19	E37	5978	03	21.4	58	1N					204		F	
	RAMY	18	1337	1401	1438	N18	E37	5978	03	21.4	61	1N		3	E		202		F	
	KANZ	18	1338	1402	1431	N19	E37	5978	03	21.4	53	1N			C					
	SVTO	18	1354	1402	1437	N19	E36	5978	03	21.3	43	1N		3	E		229		F	
	HOLL	18	1400E	1411U	1444D	N19	E37	5978	03	21.4	44D	1F		3	E		181		F	
0305		18	1544	1547	1554	S31	E75	5983	03	24.6	10	SF	C 2.9				31			
	KANZ	18	1544	1547	1550	S31	E77	5983	03	24.7	6	SN			C					
	RAMY	18	1544	1549	1554	S32	E76	5983	03	24.7	10	SF		3	E		26			
	SVTO	18	1544	1549	1558	S31	E73	5983	03	24.4	14	SF	C 2.9	3	E		36			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0306		18	17243	17245	1732	S32	E76	5983	03	24.7	8	SF						11			
	HOLL	18	1724	1724	1732	S33	E78	5983	03	24.9	8	SF		3	E			10			
	RAMY	18	1727	1729	1732	S32	E74	5983	03	24.6	5	SF		3	E			12			
0307		18	17345	1740	1745	N34	W32	5969	03	16.2	11	SF	C 2.5					20			
	RAMY	18	1734	1740	1748	N34	W32	5969	03	16.2	14	SF	C 2.5	3	E			26			
	PALE	18	1739	1740	1742	N35	W32	5969	03	16.2	3	SF		3	E			13			
0308	HOLL	18	1742	1742	1755	S33	E77	5983	03	24.8	13	SF		3	E			24	F		
0309		18	17512	17562	1817	N32	W34	5969	03	16.0	26	SF						24	F		
	RAMY	18	1751	1758	1832	N31	W35	5969	03	16.0	41	SF		3	E			20	F		
	HOLL	18	1753	1756	1802	N33	W34	5969	03	16.0	9	SF		3	E			29	F		
0310	HOLL	18	1919	1924	1933	S33	E77	5983	03	24.9	14	SF		4	E			43	F		
0311		18	20172	20192	2028	S33	E70	5983	03	24.4	11	1F	C 2.7					108	EH		
	RAMY	18	2017	2019	2028	S32	E69	5983	03	24.3	11	SF		3	E			70	H		
	HOLL	18	2017	2019	2029	S34	E71	5983	03	24.5	12	1N	C 2.7	4	E			130	EH		
	PALE	18	2019	2021	2026	S32	E71	5983	03	24.5	7	1F		3	E			124			
0312		18	2029	20291	2044	S34	E24	5974	03	20.8	15	SF						16			
	RAMY	18	2029	2029	2036	S35	E28	5974	03	21.1	7	SF		3	E			12			
	HOLL	18	2029	2030	2053	S34	E20	5974	03	20.4	24	SF		3	E			19			
0313	RAMY	18	2107	2119	2129D	S36	E29	5974	03	21.2	22D	SF		3	E			14			
0314	RAMY	18	2110	2111	2114	S16	E76	5987	03	24.6	4	SF		3	E			16			
0315	HOLL	18	2302	2305	2310	N16	E50		03	22.7	8	SF		4	E			28			
0316	LEAR	19	0241	0247	0252	S31	E72	5983	03	24.8	11	SF		3	E			70			
0317	LEAR	19	0334	0335	0423	N31	W40	5969	03	16.0	49	SF	M 1.3	3	E			44			
0318		19	04382	0442*	0643	N33	W39	5969	03	16.1	125	1N						235	4.8	DEFKU	
	LEAR	19	0438	0442	0638	N32	W40	5969	03	16.0	120	1B			E			219		K	
	LEAR	19	0438	0453	0638	N32	W40	5969	03	16.0	120	1B		3	E			212		UF	
	PEKG	19	0440	0457	0612	N34	W40	5969	03	16.0	92	2B			C	0508		294	5.4	E	
	PURP	19	0507E	0510U	0641	N32	W40	5969	03	16.0	94D	2N			C	0510		374	7.0		
	MITK	19	0516E		0716	N35	W38	5969	03	16.2	120D	2N			C	0517		280	5.2	F	
	SVTO	19	0537E	0552	0655	N32	W38	5969	03	16.2	78D	1N		3	E			174		F	
	ABST	19	0602E	0610U	0631D	N34	W36	5969	03	16.4	29D	SF			P	0610		96	1.7	D	
0319		19	0505	0509	0520	S34	E72	5983	03	24.9	15	1N						122		FH	
	LEAR	19	0505	0509	0519	S33	E69	5983	03	24.7	14	1N		3	E			127		FH	
	PURP	19	0507E	0510U	0520	S35	E74	5983	03	25.1	13D	1N			C	0510		116		H	
0320		19	0604*	0606*	0650	S13	E61	5984	03	23.8	46	SF						23			
	SVTO	19	0604	0606	0657	S13	E60	5984	03	23.8	53	SF		3	E			30			
	LEAR	19	0618	0623	0642	S13	E62	5984	03	23.9	24	SF		3	E			16			
0321		19	07213	07241	0738	S35	E23	5974	03	21.1	17	SF						24			
	LEAR	19	0721	0724	0733	S35	E23	5974	03	21.1	12	SF		3	E			22			
	SVTO	19	0724	0725	0742	S35	E23	5974	03	21.1	18	SF		3	E			26			
0322	KANZ	19	0759	0807	0821	S15	E59	5984	03	23.8	22	SF			C						
0323		19	08532	08532	0901	N18	E27	5978	03	21.4	8	SN						30	0.5	DE	
	ISTA	19	0853		0903	N19	E30	5978	03	21.6	10	SB			P					E	
	KANZ	19	0853	0853	0901	N18	E27	5978	03	21.4	8	SF			C						
	LEAR	19	0853	0854	0900	N19	E26	5978	03	21.3	7	SF		3	E			17			
	KAND	19	0855	0855	0901	N18	E26	5978	03	21.3	6	SN			P	0855		42	0.5	D	
0324		19	0857*	0901*	0929	S15	E63	5984	03	24.1	32	1F						59		EF	
	KANZ	19	0857	0901	0943	S17	E63	5984	03	24.2	46	SF			C						
	LEAR	19	0858	0901	0910	S15	E63	5984	03	24.1	12	SF		3	E			69		F	
	KAND	19	0858	0901	0915	S17	E65	5984	03	24.3	17	SN			P	0901		83		E	
	ISTA	19	0900		0928	S13	E63	5984	03	24.1	28	2N			P						F
	SVTO	19	0928	0931	0947	S13	E60	5984	03	23.9	19	SF		3	E			24			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region			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)	
0325		19	0857	0905	0922	S36	E70	5983	03	25.0	25	SF					21		
	KANZ	19	0857	0905	0920	S36	E70	5983	03	25.0	23	SF			C				
	SVTO	19	0918E	0920U	0923	S35	E70	5983	03	25.0	5D	SF		3	E		21		
0326	KANZ	19	0932	0932	0936	N18	E71	5989	03	24.8	4	SF			C				
0327		19	09355	09416	0952	S32	E69	5983	03	24.9	17	SF					27		
	LEAR	19	0935	0941	0950	S32	E69	5983	03	24.9	15	SF		3	E		27		
	KANZ	19	0940	0947	0954	S32	E69	5983	03	24.9	14	SF			C				
0328	SVTO	19	1030	1032	1038	S13	E57	5984	03	23.7	8	SF		3	E		12		
0329		19	11221	11231	1134	S36	E22	5974	03	21.2	12	SF					29		
	RAMY	19	1122	1124	1134	S36	E21	5974	03	21.1	12	SF		3	E		29		
	KANZ	19	1123	1123	1133	S35	E22	5974	03	21.2	10	SF			C				
0330		19	1226	12273	1234	S35	E20	5974	03	21.1	8	SF					18		
	RAMY	19	1226	1227	1235	S35	E20	5974	03	21.1	9	SF		3	E		18		
	KANZ	19	1226	1230	1234	S35	E20	5974	03	21.1	8	SF			C				
0331	KANZ	19	1230	1230	1234	S35	E69	5983	03	25.0	4	SF			C				
0332		19	1234	12353	1245	S14	E58	5984	03	23.9	11	SF	C 5.8				22		
	RAMY	19	1234	1235	1245	S13	E58	5984	03	23.9	11	SF	C 5.8	3	E		22		
	KANZ	19	1234	1238	1245	S14	E57	5984	03	23.8	11	SF			C				
0333		19	13121	1316	1337	S35	E68	5983	03	25.0	25	1F	M 1.3				126	Y	
	SVTO	19	1312	1316	1337	S34	E66	5983	03	24.8	25	1N	M 1.3	3	E		160	Y	
	KANZ	19	1313	1316	1335	S36	E72	5983	03	25.3	22	1F			C				
	HOLL	19	1329E	1330U	1340	S35	E65	5983	03	24.8	11D	SF		1	E		92	Y	
0334		19	13503	13531	1406	S14	E72	5987	03	25.0	16	1N	M 4.2				115	EFY	
	RAMY	19	1350	1354	1403D	S14	E69	5987	03	24.8	13D	1N	M 4.2	3	E		124	Y	
	KANZ	19	1353	1353	1401	S14	E72	5987	03	25.0	8	1F			C				
	SVTO	19	1354E	1354U	1413	S13	E71	5987	03	24.9	19D	1N		2	E		178	FE	
	HOLL	19	1356E	1358U	1403	S16	E74	5987	03	25.2	7D	SB		2	E		43		
0335	RAMY	19	1427	1427	1431	S33	E65	5983	03	24.8	4	SF		3	E		18		
0336	KANZ	19	1430	1434	1438	N06	E01	5973	03	19.7	8	SF			C				
0337		19	15065	15093	1520	S35	E67	5983	03	25.0	14	SF					17		
	RAMY	19	1506	1509	1519	S35	E66	5983	03	24.9	13	SF		3	E		19		
	HOLL	19	1511	1512	1520	S35	E68	5983	03	25.1	9	SF		3	E		15		
0338		19	15531	15541	1606	S14	E54	5984	03	23.7	13	SF					16		
	HOLL	19	1553	1555	1606	S14	E55	5984	03	23.8	13	SF		3	E		14		
	RAMY	19	1553	1555	1607	S14	E53	5984	03	23.7	14	SF		3	E		17		
	KANZ	19	1554	1554	1606D	S13	E55	5984	03	23.8	12D	SF			C				
0339	KANZ	19	1602	1602	1606D	N06	E00	5973	03	19.7	4D	SF			C				
0340	RAMY	19	1612	1612	1623	S33	E64	5983	03	24.7	11	SF		3	E		16		
		19	1717		1721	No Flare Patrol													
0341	RAMY	19	1737	1741	1747	S33	E63	5983	03	24.7	10	SF		3	E		22		
0342		19	1759	1800	1816	S36	E14	5974	03	20.9	17	SF					22	F	
	HOLL	19	1750E	1800U	1816	S35	E15	5974	03	20.9	26D	SF		3	E		21	F	
	RAMY	19	1759	1800	1815	S36	E13	5974	03	20.8	16	SF		3	E		23	F	
0343	RAMY	19	1801	1828	1859	S35	E65	5983	03	24.9	58	SF		3	E		34		
0344	RAMY	19	1903	1904	1912	S34	E63	5983	03	24.8	9	SF		3	E		15		
0345	HOLL	19	2018	2019	2023	S08	E70	5988	03	25.1	5	SF		3	E		26		
0346	HOLL	19	2026	2029	2034	S15	E68	5987	03	25.0	8	SF		3	E		25		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	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)	
			19 2046	2103			No Flare Patrol										
0347		20	0306	0332	0407	S36 E14	5974	03	21.2	61	SN				48	0.8	F
	LEAR	20	0306	0332	0407	S36 E14	5974	03	21.2	61	SF	3	E		33		F
	YUNN	20	0337E	0337U	0342D	S35 E13	5974	03	21.2	5D	SN		C	0337	63	0.8	
0348	PALE	20	0357	0404	0411	N32 W51	5969	03	16.1	14	SF	3	E		22		
0349	LEAR	20	0522	0523	0533	S35 E63	5983	03	25.3	11	SF	3	E		21		
0350	LEAR	20	0534	0538	0542	S05 E73	5988	03	25.7	8	SF	3	E		21		
0351		20	0551*	0613	0640	N18 E16	5978	03	21.5	49	SF C 2.1				46		F
	LEAR	20	0551	0613	0653	N19 E16	5978	03	21.5	62	SF C 2.1	3	E		31		
	SVTO	20	0609	0613	0628	N18 E17	5978	03	21.5	19	SF C 2.1	3	E		62		F
0352		20	0616	06165	0626	S34 E60	5983	03	25.0	10	SF C 3.5				13		F
	LEAR	20	0616	0616	0625	S35 E60	5983	03	25.1	9	SF C 3.5	3	E		10		
	SVTO	20	0616	0621	0628	S34 E59	5983	03	25.0	12	SF	3	E		16		F
0353	SVTO	20	0647	0652	0706	N17 E14	5978	03	21.3	19	SF	3	E		21		F
0354	SVTO	20	0650	0656	0717	S34 E02	5974	03	20.4	27	SF	3	E		19		F
0355		20	0925	0925	0934	S34 E56	5983	03	24.8	9	SF C 1.8				23		
	LEAR	20	0925	0925	0932	S34 E58	5983	03	25.0	7	SF C 1.8	3	E		23		
	KANZ	20	0925	0925	0937	S34 E54	5983	03	24.7	12	SF		C				
0356		20	10083	1011*	1048	S05 E70	5988	03	25.6	40	SF C 2.4				184		EH
	KANZ	20	1008	1011	1050	S05 E69	5988	03	25.6	42	SF		C				
	KHAR	20	1010	1013	1043	S04 E67	5988	03	25.4	33	1F	2	P	1016	300		EH
	SVTO	20	1011	1025	1050	S07 E74	5988	03	26.0	39	SF C 2.4	4	E		67		
0357	KHAR	20	1033	1034	1038	S33 E01	5974	03	20.5	5	SF	2	V	1034			D
0358	KHAR	20	1050	1051	1052	S33 E01	5974	03	20.5	2	SF	2	V	1051			D
0359		20	11423	11423	1152	S14 E40	5984	03	23.5	10	SF				17		
	RAMY	20	1142	1142	1150	S15 E40	5984	03	23.5	8	SF	3	E		17		
	KANZ	20	1145	1145	1153	S14 E40	5984	03	23.5	8	SF		C				
0360		20	12381	12381	1244	S06 E68	5988	03	25.6	6	SF				15		
	RAMY	20	1238	1238	1244	S06 E67	5988	03	25.5	6	SF	3	E		15		
	KANZ	20	1239	1239	1243	S05 E70	5988	03	25.8	4	SF		C				
0361	RAMY	20	1324	1326	1331	S36 E50	5983	03	24.6	7	SF	3	E		17		
0362		20	14381	1443	1500	S05 E66	5988	03	25.5	22	1N C 5.3				232		EH
	SVTO	20	1438	1443	1502D	S04 E65	5988	03	25.5	24D	1N C 5.3	3	E		246		
	HOLL	20	1439	1443	1500	S06 E67	5988	03	25.6	21	1N C 5.3	3	E		219		EH
0363	HOLL	20	1447	1447	1453	S34 E00	5974	03	20.6	6	SF	3	E		14		
0364		20	15141	1521	1634	S37 E55	5983	03	25.1	80	1N M 1.2				204		FU
	HOLL	20	1514	1521	1634	S36 E53	5983	03	24.9	80	1N M 1.2	3	E		214		UF
	SVTO	20	1515	1521	1625D	S37 E57	5983	03	25.2	70D	1N	3	E		167		F
	RAMY	20	1515	1528U	1632D	S37 E54	5983	03	25.0	77D	1F	3	E		230		F
0365		20	1627	1629	1641	N34 W55	5969	03	16.3	14	SN				53		H
	HOLL	20	1627	1629	1641	N34 W55	5969	03	16.3	14	SN	3	E		66		H
	RAMY	20	1629E	1629U	1643D	N34 W55	5969	03	16.3	14D	SF	2	E		40		
0366	HOLL	20	1653	1656	1742	S36 E05	5974	03	21.1	49	SN C 6.4	3	E		67		EF
0367	HOLL	20	1857	1857	1911	N17 E11	5978	03	21.6	14	SF	3	E		21		
0368	HOLL	20	1949	1951	1954	S07 E70	5988	03	26.1	5	SF	3	E		44		
0369	HOLL	20	1955E	2009U	2019	N20 E13	5978	03	21.8	24D	SF	3	E		60		

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Grp #	Sta	Start Day	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)			
0370	HOLL	20	2009	2013	S05	E63 5988	03 25.5	25	1B M 1.3	3	E	139		EF		
0371		20	2025	2026	S34	W04 5974	03 20.5	25	1N M 2.1			74		FU		
	HOLL	20	2025	2026	S34	W03 5974	03 20.6	25	1B M 2.1	3	E	103		UF		
	RAMY	20	2037E	2037U	2041D	S33	W04 5974	03 20.5	40	SF	2	E	45			
		20	2057		2103	No Flare Patrol										
0372	HOLL	20	2113	2120	2131	N39	W19 5976	03 19.3	18	SF		3	E	22		
		20	2243		2246	No Flare Patrol										
0373		20	23002	23091	2341	S34	W05 5974	03 20.5	41	1N M 1.8			118		EFU	
	HOLL	20	2300	2309	2328D	S34	W05 5974	03 20.5	28D	1N	3	E	131		UE	
	LEAR	20	2302	2310	2341	S33	W05 5974	03 20.6	39	1F M 1.8	3	E	105		F	
0374	LEAR	21	0108	0110	0116	S34	W04 5974	03 20.7	8	SF		3	E	28	F	
0375		21	0225*	0243*	0409	S34	W07 5974	03 20.5	104	1N			236	2.8	E1JT	
	YUNN	21	0225	0243	0409	S34	W06 5974	03 20.6	104	1N		C	314	3.7		
	PURP	21	0225	0255	0323D	S33	W08 5974	03 20.5	58D	SN		C	0255	143	1.7	
	VORO	21	0238	0244	0308D	S35	W07 5974	03 20.5	30D	1F	2	C	0244	251	2.9	E1JT
0376		21	0225*	03024	0336	S13	E37 5984	03 23.9	71	1N C 6.6			122	1.6	EFJ	
	LEAR	21	0225	0304	0342	S13	E36 5984	03 23.8	77	1F C 6.6	3	E	108		F	
	YUNN	21	0242	0302	0343	S13	E38 5984	03 24.0	61	SN		C	94	1.2		
	PURP	21	0242	0306	0323	S12	E37 5984	03 23.9	41	SN		C	0306	88	1.1	
	VORO	21	0252	0306	0308D	S13	E36 5984	03 23.8	16D	1F	2	C	0306	197	2.4	EJ
0377		21	0447	0448	0450	S34	W06 5974	03 20.7	3	SF C 4.1			108	2.0	F	
	YUNN	21	0440E	0448U	0450	S34	W06 5974	03 20.7	10D	SF		P	0448	173	2.0	
	LEAR	21	0447	0448	0451	S34	W07 5974	03 20.6	4	SF C 4.1	3	E	44		F	
0378	LEAR	21	0516	0518	0553	N19	E06 5978	03 21.7	37	SF C 3.3	3	E	35			
0379	SVTO	21	0647	0652	0703	S04	E57 5988	03 25.5	16	SF		3	E	23		
0380		21	08007	08331	0919	S13	E35 5984	03 24.0	79	1F C 5.5			69		DF	
	LEAR	21	0800	0833	0921	S13	E35 5984	03 24.0	81	SF C 5.5	3	E	69		F	
	KANZ	21	0807	0834	0917	S13	E34 5984	03 23.9	70	SF		C				
	KHAR	21	0831U		0838D	S13	E36 5984	03 24.1	7U	SF	1	V	0833		D	
	ISTA	21	0848E		0920	S13	E36 5984	03 24.1	32D	2N		P			F	
0381	KANZ	21	1050	1054	1102	N19	E02 5978	03 21.6	12	SF		C				
0382	KANZ	21	1102	1106	1109	S37	W11 5974	03 20.6	7	SF		C				
0383		21	11119	11137	1141	S05	E56 5988	03 25.6	30	SF C 3.4			78		FH	
	SVTO	21	1111	1114	1144	S06	E57 5988	03 25.7	33	SF C 3.4	3	E	85		FH	
	KANZ	21	1113	1113	1137	S04	E55 5988	03 25.6	24	SF		C				
	RAMY	21	1120	1120	1143	S06	E55 5988	03 25.6	23	SF	3	E	72			
0384	RAMY	21	1130	1131	1138	S33	E43 5983	03 24.9	8	SF		3	E	35		
0385	RAMY	21	1320	1321	1329	S34	W09 5974	03 20.8	9	SF		3	E	11		
0386		21	13513	1352*	1436	S13	E30 5984	03 23.8	45	SF C 3.2			67		FKU	
	HOLL	21	1347E	1347U	1430D	S14	E30 5984	03 23.8	43D	SF	3	E	80		UF	
	RAMY	21	1351	1352	1436	S13	E30 5984	03 23.8	45	SF		E	36		K	
	RAMY	21	1351	1409	1436	S13	E30 5984	03 23.8	45	SF C 3.2	3	E	85			
	KANZ	21	1354	1410	1427D	S13	E28 5984	03 23.7	33D	SF		C				
0387	RAMY	21	1427	1429	1443	S35	W05 5974	03 21.2	16	SF		3	E	24		
0388		21	14462	14588	1537	S12	E28 5984	03 23.7	51	SF			64		EFK	
	HOLL	21	1446	1459	1542	S12	E28 5984	03 23.7	56	SF	3	E	93		FE	
	RAMY	21	1446	1502	1603	S12	E28 5984	03 23.7	77	SF	3	E	67			
	SVTO	21	1448	1458	1522	S12	E27 5984	03 23.6	34	SF	3	E	49			
	SVTO	21	1448	1506	1522	S12	E27 5984	03 23.6	34	SF		E	48		K	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0389	HOLL	21	1451	1459	1503	N19	W01	5978	03	21.5	12	SF		3	E		57		F	
0390	RAMY	21	1551	1553	1556	S05	E53	5988	03	25.6	5	SF		3	E		15			
0391	RAMY	21	1613	1615	1619	S06	E50	5988	03	25.4	6	SF		3	E		33			
0392	RAMY	21	1656	1658	1704	S31	E34	5983	03	24.4	8	SF		3	E		19		H	
0393	RAMY	21	1726	1730	1737	S13	E27	5984	03	23.8	11	SF		3	E		17		F	
0394		21	1741	1742	1756	N18	W01	5978	03	21.7	15	SF					30			
	HOLL	21	1741	1742	1800	N18	W01	5978	03	21.7	19	SF		3	E		41			
	RAMY	21	1741	1743	1751	N19	W01	5978	03	21.7	10	SF		3	E		19			
0395		21	1741*	17529	1820	S07	E53	5988	03	25.7	39	SF					49		F	
	HOLL	21	1741	1801	1818	S08	E50	5988	03	25.5	37	SF		3	E		85		F	
	RAMY	21	1746	1752	1825	S07	E55	5988	03	25.9	39	SF		3	E		36		F	
	PALE	21	1751	1756	1816	S05	E53	5988	03	25.7	25	SF		4	E		27			
0396		21	18563	18591	1907	S31	E33	5983	03	24.4	11	SF	C 3.4				51		EF	
	HOLL	21	1856	1859	1906	S32	E33	5983	03	24.4	10	SF	C 3.4	3	E		83		FE	
	RAMY	21	1857	1900	1910	S29	E29	5983	03	24.1	13	SF		3	E		32		F	
	PALE	21	1859	1859	1905	S32	E36	5983	03	24.6	6	SF	C 3.4	4	E		39			
0397		21	19111	19162	1932	S34	W10	5974	03	21.0	21	SF					34			
	PALE	21	1911	1918	1926	S34	W09	5974	03	21.1	15	SF		4	E		24			
	RAMY	21	1912	1916	1938	S35	W10	5974	03	21.0	26	SF		3	E		44			
0398	RAMY	21	1912	1927	1935	S32	E36	5983	03	24.6	23	SF		2	E		16			
0399	RAMY	21	1916	1924	1940	S14	E25	5984	03	23.7	24	SF		2	E		19			
0400		21	2012	2017	2139	S36	W12	5974	03	20.9	87	SN	C 6.3				70		F	
	PALE	21	2012	2017	2157D	S36	W09	5974	03	21.1	105D	SF	C 6.3	4	E		62		F	
	HOLL	21	2029E	2030U	2139	S35	W14	5974	03	20.7	70D	SN		2	E		78		F	
0401	HOLL	21	2126	2128	2131	S06	E48	5988	03	25.5	5	SF		3	E		31			
		21	2204		2208	No Flare Patrol														
		21	2219		2222	No Flare Patrol														
		21	2230		2241	No Flare Patrol														
		21	2245		2253	No Flare Patrol														
0402		21	23347	23411	2357	N18	W09	5978	03	21.3	23	SF					85	1.7	EFG	
	VORO	21	2334	2342	2354D	N18	W09	5978	03	21.3	20D	SF		2	C	2342	152	1.7	EG	
	PALE	21	2341	2341	2357	N19	W09	5978	03	21.3	16	SF		4	E		18		F	
0403		22	00355	00383	0044	N32	W77	5969	03	15.9	9	SF					66			
	LEAR	22	0035	0038	0044	N33	W76	5969	03	16.0	9	SF		3	E		90			
	PALE	22	0040	0041	0044	N31	W78	5969	03	15.9	4	SF		4	E		41			
0404		22	01513	01553	0217	S14	E23	5984	03	23.8	26	SF					49	1.0	DFIJ	
	LEAR	22	0151	0157	0223	S14	E22	5984	03	23.7	32	SF		3	E		36			
	PALE	22	0154	0155	0210	S14	E24	5984	03	23.9	16	SF		3	E		22		F	
	VORO	22	0154	0158	0217	S14	E24	5984	03	23.9	23	SF		2	C	0158	90	1.0	DIJ	
0405		22	02203	02282	0239	S35	E29	5983	03	24.4	19	SF					50	1.3	D1	
	VORO	22	0220	0228	0237	S36	E30	5983	03	24.5	17	SF		2	C	0228	99	1.3	DI	
	LEAR	22	0222	0230	0245	S34	E29	5983	03	24.4	23	SF		3	E		33			
	PALE	22	0223	0230	0234	S34	E29	5983	03	24.4	11	SF		3	E		18			
0406	LEAR	22	0323	0323	0333	S33	E36	5983	03	25.0	10	SF	C 4.4	3	E		44		F	
0407		22	04057	04173	0428	S35	E27	5983	03	24.3	23	1B	C 7.5				164	2.8	H	
	LEAR	22	0405	0420	0430	S35	E28	5983	03	24.4	25	1N	C 7.5	3	E		108		H	
	YUNN	22	0412	0417	0425	S35	E26	5983	03	24.2	13	1B			C		220	2.8		
0408	LEAR	22	0537	0539	0542	S31	E26	5983	03	24.3	5	SF		3	E		24			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
						Lat	CMD	Region						Mo	Day	Time (UT)		Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)
0409		22	0534	0543*	0653	S14	E21	5984	03	23.8	79	SF	M 1.1		97		EFK		
	LEAR	22	0534	0543	0651	S14	E21	5984	03	23.8	77	SF	M 1.1	3	E		FE		
	LEAR	22	0534	0612	0651	S14	E21	5984	03	23.8	77	1F			E	116		K	
	SVTO	22	0545E	0545U	0656	S13	E20	5984	03	23.7	71D	SN		2	E		82	F	
0410		22	0629*	07083	0725	S06	E46	5988	03	25.7	56	SF				91	2.4	F	
	SVTO	22	0629	0711	0741	S06	E48	5988	03	25.9	72	SN		3	E		71		
	LEAR	22	0657	0708	0721	S06	E45	5988	03	25.6	24	SF			E	45			
	ABST	22	0702	0710	0712	S06	E46	5988	03	25.7	10	1F			C	0710	157	2.4	F
0411		22	0737*	0741*	0858	S12	E18	5984	03	23.7	81	SN	C 4.7			83	1.6	BFKT	
	SVTO	22	0737	0741	0914	S12	E18	5984	03	23.7	97	SN	C 4.7	3	E		80		F
	SVTO	22	0737	0808	0914	S12	E18	5984	03	23.7	97	SN			E		37		K
	LEAR	22	0742	0743	0804	S14	E19	5984	03	23.7	22	SF		3	E		61		
	HTPR	22	0806	0816	0906	S12	E17	5984	03	23.6	60	SF		3	E		22		
	HTPR	22	0811E	0815	0920	S12	E18	5984	03	23.7	69D	SN			C	0815	100	1.1	T
	KHAR	22	0825E		0850	S13	E17	5984	03	23.6	25D	1F		2	P	0832	200	2.1	B
0412		22	0755	0756	0802	S34	W34	5974	03	19.6	7	SF				62	1.5	D	
	BUCA	22	0745E		0805	S34	W34	5974	03	19.6	20D	SF			P	0745	107	1.5	D
	LEAR	22	0755	0756	0800	S34	W34	5974	03	19.6	5	SF		3	E		16		
0413	HTPR	22	0836	0840	0849	N33	W75	5969	03	16.4	13	SN			C	0840	20		A
0414	SVTO	22	0838	0840	0843	N30	W76	5969	03	16.4	5	SF		3	E		15		
0415		22	08389	0841*	0904	S33	E25	5983	03	24.3	26	SN	C 5.1			77	1.2	DEK	
	LEAR	22	0838	0841	0904	S34	E23	5983	03	24.2	26	SF		3	E		49		
	HTPR	22	0839	0843	0905	S32	E26	5983	03	24.4	26	SB			C	0843	140	1.7	EK
	SVTO	22	0839	0843	0906	S32	E28	5983	03	24.6	27	SF	C 5.1	3	E		28		
	HTPR	22	0839	0856	0905	S32	E26	5983	03	24.4	26	SB			C	0856	100	1.2	EK
	BUCA	22	0840	0845	0905D	S33	E24	5983	03	24.3	25D	SF			P	0845	64	0.8	D
	KHAR	22	0847		0902	S36	E26	5983	03	24.4	15	SF		2	V	0854			
	KANZ	22	0847E	0855	0904	S34	E24	5983	03	24.3	17D	SF			C				
	KAND	22	0856E		0903	S34	E24	5983	03	24.3	7D	SN			P	0856	83	1.0	D
0416	KHAR	22	0843		0855	N32	W85	5969	03	15.6	12	SF		2	P	0844	80		DH
0417		22	0847E	0855	0914	S12	E17	5984	03	23.6	27D	SN				104	1.1	E	
	KANZ	22	0847E	0855	0912	S12	E16	5984	03	23.6	25D	SF			C				
	KAND	22	0856E		0915	S12	E18	5984	03	23.7	19D	SB			P	0856	104	1.1	E
0418		22	0914*	0929*	0954	S33	W23	5974	03	20.5	40	SF				78	1.3	D	
	HTPR	22	0914	0929	1000	S33	W22	5974	03	20.6	46	SF			C	0929	110	1.3	
	LEAR	22	0914	0940	0950	S33	W27	5974	03	20.2	36	SF		3	E		47		
	KANZ	22	0916	0932	0947	S33	W25	5974	03	20.4	31	SF			C				
	KHAR	22	0940		0955U	S32	W24	5974	03	20.5	15U	SF		2	V	0942			D
	KHAR	22	0955		1000	S36	W16	5974	03	21.1	5	SF		2	V	0956			D
0419	HTPR	22	0924	0930	1010	S05	E47	5988	03	25.9	46	SN			C	0930	70	1.0	
0420	KHAR	22	0933	0958	1025	N28	W90	5969	03	15.4	52	2N		2	P				H
0421	HTPR	22	0944	0952	1005	S12	E18	5984	03	23.8	21	SF			C	0952	50	0.5	
0422		22	1020	1033	1134	S12	E17	5984	03	23.7	74	SF				44	0.4	EFH	
	HTPR	22	1020	1033	1130	S12	E18	5984	03	23.8	70	SF			C	1033	40	0.4	
	KHAR	22	1040U		1125U	S12	E17	5984	03	23.7	45U	1F		2	V				EH
	RAMY	22	1051E	1051U	1137	S13	E17	5984	03	23.7	46D	SF		2	E		49		F
0423		22	10222	10242	1036	S34	E23	5983	03	24.3	14	SB				138	1.7	DEHJTVZ	
	ISTA	22	1022	1024	1027	S35	E27	5983	03	24.6	5	1N			P				E
	KAND	22	1023	1024	1038	S34	E22	5983	03	24.2	15	SB			P	1024	145	1.7	DT
	HTPR	22	1023	1025	1048	S32	E26	5983	03	24.5	25	SB			C	1025	160	2.0	HJVZ
	KANZ	22	1024	1024	1031	S34	E22	5983	03	24.2	7	SB			C				
	HURB	22	1024	1024	1036	S34	E18	5983	03	23.9	12	SB							D
	KHAR	22	1024	1026	1033	S34	E23	5983	03	24.3	9	SB		2	P	1029	110	1.4	DH
0424	HTPR	22	1104	1107	1111	N18	W13	5978	03	21.5	7	SF			C	1107	20	0.2	D

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Grp #	Sta	Start Day	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)		
0425	HTPR	22	1131	1135	1210	N27 W80 5969	03 16.2	39	SF		C	1135	20		AT
0426		22	1149*	1150*	1221	S06 E44 5988	03 25.8	32	SF				50	2.0	FIK
	SVTO	22	1149	1150	1232	S05 E44 5988	03 25.8	43	SF	3	E		34		F
	HTPR	22	1149	1152	1230	S05 E47 5988	03 26.0	41	SN		C	1152	140	2.0	I
	KANZ	22	1149	1153	1200	S07 E44 5988	03 25.8	11	SF		C				
	SVTO	22	1149	1221	1232	S05 E44 5988	03 25.8	43	SF		E		38		K
	RAMY	22	1151	1151	1202	S06 E43 5988	03 25.7	11	SF	3	E		26		F
	RAMY	22	1218	1221	1229	S06 E41 5988	03 25.6	11	SF	3	E		14		F
0427	HTPR	22	1154	1157	1210	S37 W13 5974	03 21.4	16	SF		C	1157	90	1.0	
0428	HTPR	22	1210	1211	1218	S32 W35 5986	03 19.7	8	SF		C	1211	20	0.2	D
0429		22	1221	1222*	1400	S13 E17 5984	03 23.8	99	SF				71	1.1	KT
	RAMY	22	1221	1222	1403	S13 E16 5984	03 23.7	102	SF		E		37		K
	RAMY	22	1221	1251	1403	S13 E16 5984	03 23.7	102	SF	3	E		67		
	HTPR	22	1221	1255	1355	S12 E18 5984	03 23.9	94	SN		C	1255	110	1.1	T
0430		22	1227*	12309	1242	S33 E26 5983	03 24.6	15	SF				40	0.4	D
	HTPR	22	1227	1230	1233	S31 E28 5983	03 24.7	6	SF		C	1230	20	0.2	D
	HTPR	22	1235	1239	1250	S32 E26 5983	03 24.6	15	SN		C	1239	60	0.7	
	KANZ	22	1239	1239	1243D	S35 E23 5983	03 24.4	4D	SF		C				
0431		22	12402	1244	1302	S36 W18 5974	03 21.1	22	SF				44	1.1	F
	HTPR	22	1240	1244	1300	S37 W13 5974	03 21.5	20	SF		C	1244	90	1.1	
	RAMY	22	1242	1244	1254	S36 W17 5974	03 21.2	12	SF	3	E		16		F
	SVTO	22	1242	1244	1311	S34 W25 5974	03 20.5	29	SF	3	E		25		
0432	HTPR	22	1308	1315	1337	S12 W43 5992	03 19.3	29	SF		C	1315	50	0.6	
0433	HTPR	22	1310	1316	1340	N10 E85 5993	03 28.9	30	SF		C	1316	20		A
0434	HTPR	22	1328	1331	1340	S32 E26 5983	03 24.6	12	SF		C	1331	90	1.1	J
0435		22	1331*	1341*	1359	S07 E40 5988	03 25.5	28	SF				43	0.6	H
	HTPR	22	1331	1341	1355	S10 E31 5988	03 24.9	24	SF		C	1341	80	0.9	
	HTPR	22	1342	1343	1352	S05 E47 5988	03 26.1	10	SF		C	1343	30	0.4	
	HTPR	22	1352	1356	1400	S07 E42 5988	03 25.7	8	SN		C	1356	40	0.5	H
	RAMY	22	1354	1355	1358	S07 E39 5988	03 25.5	4	SF	3	E		17		
	HTPR	22	1403	1404	1411	S05 E41 5988	03 25.6	8	SF		C	1404	50	0.7	
0436		22	1359	14001	1416	S33 E24 5983	03 24.5	17	SN				41	0.7	
	RAMY	22	1359	1400	1407	S34 E22 5983	03 24.3	8	SF	3	E		22		
	HTPR	22	1359	1401	1425	S32 E26 5983	03 24.6	26	SN		C	1401	60	0.7	
0437		22	1400*	1404*	1427	N27 W75 5969	03 16.7	27	SF				35		AT
	HTPR	22	1400	1404	1406	N27 W75 5969	03 16.7	6	SF		C	1404	30		AT
	HTPR	22	1413	1415	1448	N27 W75 5969	03 16.7	35	SF		C	1415	40		AT
0438	HTPR	22	1414	1417	1423	S33 W22 5974	03 20.8	9	SF		C	1417	80	1.0	
0439		22	14103	1430*	1501	S13 E17 5984	03 23.9	51	SF				64	0.8	AFST
	HTPR	22	1410	1430	1524D	S12 E18 5984	03 23.9	74D	SF		C	1430	80	0.8	AST
	RAMY	22	1413	1531	1642D	S13 E14 5984	03 23.6	149D	SF	3	E		37		
	SVTO	22	1437E	1445U	1501	S13 E18 5984	03 24.0	24D	SF	3	E		75		F
0440	HTPR	22	1441	1443	1458	S39 E35 5983	03 25.4	17	SF		C	1443	70	1.0	E
0441	HTPR	22	1442	1444	1447	S05 E41 5988	03 25.7	5	SF		C	1444	70	0.9	H
0442	HTPR	22	1450	1456	1524D	N27 W75 5969	03 16.8	34D	SF		C	1456	40		A
0443		22	1601	1602	1618	S36 W18 5974	03 21.2	17	SF	C 9.1			42	0.7	F
	HOLL	22	1601E	1601U	1618	S34 W16 5974	03 21.4	17D	SF		E		33		F
	RAMY	22	1601	1602	1619	S36 W19 5974	03 21.1	18	SF	C 9.1	3	E	33		F
	HTPR	22	1603E		1608D	S37 W18 5974	03 21.2	5D	SN		C	1603	60	0.7	
0444	HTPR	22	1603E	1604	1608D	S05 E47 5988	03 26.2	5D	SF		C	1604	100	1.3	

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						Region	Lat CMD							Time (UT)	Apparent (10-6 Disk)	
0445	HOLL	22	1705	1710	1725	S13 E12	5984	03 23.6	20	SF		3	E		39	
0446	HOLL	22	1747	1748	1755	S07 E43	5988	03 26.0	8	SF		3	E		18	
0447		22	1823	1842*	1943	S13 E12	5984	03 23.7	80	SN C 9.6					58	EFK
	PALE	22	1823	1842	2002D	S13 E12	5984	03 23.7	99D	SF C 9.6		3	E		57	F
	PALE	22	1823	1916	2002D	S13 E12	5984	03 23.7	99D	SB			E		48	K
	HOLL	22	1824E	1836U	1943	S13 E11	5984	03 23.6	79D	SF		2	E		85	FE
	HOLL	22	1824E	1938	1943	S13 E11	5984	03 23.6	79D	SB			E		40	K
0448	HOLL	22	1839	1840	1845	S06 E36	5988	03 25.5	6	SF		3	E		20	
		22	1951		1957	No Flare Patrol										
0449	HOLL	22	2024	2035	2048	S16 E34	5987	03 25.4	24	SF		3	E		44	F
0450	HOLL	22	2106	2116	2138	N22 E14	5991	03 23.9	32	SF		3	E		11	
0451	HOLL	22	2116	2121	2125	S06 E33	5988	03 25.3	9	SF		3	E		33	
0452		22	2154	2156	2219	S13 E11	5984	03 23.7	25	SF		3	E		31	F
	HOLL	22	2154	2156	2219	S13 E11	5984	03 23.7	25	SF		3	E		31	F
	PALE	22	2155	2159	2213	S13 E13	5984	03 23.9	18	SF		3	E		23	
0453	HOLL	22	2201	2202	2208	S34 E17	5983	03 24.3	7	SF C 3.4		4	E		20	F
0454	HOLL	22	2253	2255	2301	S13 E10	5984	03 23.7	8	SF		3	E		15	
0455	HOLL	22	2302	2304	2308	S07 E32	5988	03 25.3	6	SF		3	E		20	
0456	HOLL	23	0002	0005	0011	S14 E08	5984	03 23.6	9	SF		4	E		19	
0457		23	0007*	0013*	0041	S06 E34	5988	03 25.5	34	SF C 7.3					65	EFK
	HOLL	23	0007	0013	0109D	S06 E33	5988	03 25.5	62D	SF			E		46	K
	HOLL	23	0007	0024	0109D	S06 E33	5988	03 25.5	62D	1F C 7.3		4	E		154	FE
	LEAR	23	0012	0013	0016	S07 E32	5988	03 25.4	4	SF		3	E		25	
	PALE	23	0012	0013	0016	S06 E32	5988	03 25.4	4	SF		3	E		22	
	LEAR	23	0019	0024	0047	S07 E38	5988	03 25.8	28	SF		3	E		73	F
	PALE	23	0021	0023	0124	S05 E34	5988	03 25.5	63	SF		3	E		68	
0458	HOLL	23	0014	0016	0029	N22 E12	5991	03 23.9	15	SF		4	E		15	
0459	HOLL	23	0024	0024	0030	S12 E07	5984	03 23.5	6	SF		4	E		13	
0460	HOLL	23	0102E	0102U	0109D	S35 E15	5983	03 24.2	7D	SF		2	E		17	
0461		23	0130	0131	0146	N24 W14	5978	03 22.0	16	SN					97	2.0
	YUNN	23	0130E	0130U	0145	N24 W15	5978	03 21.9	15D	SB			P	0130	157	2.0
	LEAR	23	0130	0131	0146	N25 W14	5978	03 22.0	16	SF		3	E		37	
0462		23	0309	0316	0326	S34 E15	5983	03 24.3	17	SF C 4.0					47	1.1
	YUNN	23	0309	0319	0329	S34 E15	5983	03 24.3	20	SN			C		94	1.1
	PALE	23	0315	0316	0324	S35 E16	5983	03 24.4	9	SF		3	E		21	F
	LEAR	23	0315	0316	0326	S34 E15	5983	03 24.3	11	SF C 4.0		3	E		27	
0463	LEAR	23	0351	0351	0358	S14 E06	5984	03 23.6	7	SF		3	E		11	
0464	LEAR	23	0423	0423	0434	S37 W28	5974	03 20.9	11	SF		3	E		12	
0465		23	0613	0622	0641	S34 W34	5974	03 20.5	28	1N C 8.2					146	3.4
	LEAR	23	0613	0622	0652	S34 W34	5974	03 20.5	39	SF C 8.2		3	E		59	F
	ATHN	23	0622	0625U	0630	S35 W32	5974	03 20.7	8	1F		2	V	0625	239	3.2
	YUNN	23	0623E	0623U	0640D	S33 W36	5974	03 20.4	17D	1B			P	0623	267	3.7
	SVTO	23	0640E	0640U	0742D	S34 W34	5974	03 20.6	62D	SF		3	E		21	FH
0466	LEAR	23	0645	0708	0742	S12 E04	5984	03 23.6	57	SF		3	E		78	
0467	LEAR	23	0714	0718	0727	S06 E29	5988	03 25.5	13	SF		3	E		16	

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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)		
0468	LEAR	23	0734	0810	0820	S05 E32	5988	03 25.7	46	SF C 3.5	3	E		13			
0469	KAND	23	1030	1035	1044	S14 E01	5984	03 23.5	14	SF		P	1035	62	0.6	E	
0470	KAND	23	1039	1044	1054	S19 E25	5987	03 25.3	15	SN		P	1044	104	1.2	E	
0471	SVTO	23	1140E	1142U	1200D	S16 E26	5987	03 25.4	20D	SF	3	E		65		F	
		23	1236		1249	No Flare Patrol											
0472		23	1250E	1252U	1306	S07 E28	5988	03 25.6	16D	1N M 1.2				130		EF	
	RAMY	23	1250E	1252U	1310	S07 E25	5988	03 25.4	20D	1N	2	E		153		FE	
	SVTO	23	1252E	1256U	1301	S07 E31	5988	03 25.8	9D	1N M 1.2	3	E		108			
0473		23	1429	1438	1449	S06 E30	5988	03 25.8	20	SF				21		F	
	RAMY	23	1427E	1438U	1452D	S06 E29	5988	03 25.8	25D	SF	2	E		18		F	
	HOLL	23	1429	1438	1449	S07 E31	5988	03 25.9	20	SF	4	E		24		F	
0474		23	1529I	1532*	1622	S36 W36	5974	03 20.7	53	SF				45		EFK	
	HOLL	23	1529	1532	1629	S36 W36	5974	03 20.7	60	SF		E		50		K	
	HOLL	23	1529	1555	1629	S36 W36	5974	03 20.7	60	SF	4	E		55		FE	
	RAMY	23	1530	1532	1614	S35 W37	5974	03 20.7	44	SF		E		28		K	
	RAMY	23	1530	1555	1614	S35 W37	5974	03 20.7	44	SF	3	E		46		F	
0475	HOLL	23	1615	1628	1634	S15 W03	5984	03 23.4	19	SF	4	E		23			
0476	HOLL	23	1632	1633	1647	S07 E22	5988	03 25.3	15	SF C 5.1	4	E		54			
0477	HOLL	23	1658	1658	1704	S07 E30	5988	03 25.9	6	SF	4	E		32			
0478	HOLL	23	1737	1738	1744	S34 W40	5974	03 20.5	7	SF	4	E		18			
0479	HOLL	23	1742	1745	1750	S13 E04	5984	03 24.0	8	SF	4	E		10			
0480	HOLL	23	1808	1813	1819	S34 W41	5974	03 20.5	11	SF	4	E		25		F	
0481	HOLL	23	1835	1836	1847	S10 E23	5988	03 25.5	12	SF	4	E		49			
0482		23	1835I	1837I	1848	S35 E07	5983	03 24.3	13	SF C 2.4				38			
	PALE	23	1835	1837	1849	S35 E07	5983	03 24.3	14	SF	3	E		40			
	HOLL	23	1836	1838	1846	S35 E07	5983	03 24.3	10	SF C 2.4	4	E		35			
		23	2024		2031	No Flare Patrol											
		23	2047		2049	No Flare Patrol											
0483	PALE	23	2127	2127	2135	S05 E24	5988	03 25.7	8	SF C 2.4	3	E		21			
		23	2139		2201	No Flare Patrol											
0484	VORO	24	0024	0025	0027	S08 E19	5988	03 25.4	3	SF	2	C	0025	54	0.6	DIJ	
0485	VORO	24	0049	0051	0057	S35 W61		03 19.1	8	SF	2	C	0051	81	1.7	EI	
0486	LEAR	24	0134	0142	0156	S36 W39	5974	03 20.9	22	SF	3	E		11			
0487	VORO	24	0206	0209	0223	S05 E18	5988	03 25.4	17	SF	2	C	0209	90	1.0	DIJ	
0488	LEAR	24	0218	0227	0235	S36 W38	5974	03 21.0	17	SF	3	E		14			
0489		24	0253E	0255E	0307	S36 E02	5983	03 24.3	14	1N				218	2.6	EIJ	
	VORO	24	0253	0255	0308	S36 E02	5983	03 24.3	15	1N	2	C	0255	233	2.8	EIJ	
	YUNN	24	0259	0300	0306	S35 E03	5983	03 24.4	7	1N		C		204	2.4		
0490		24	0254E	0257E	0308	S06 E18	5988	03 25.5	14	1N				175	2.2	EFIJ	
	VORO	24	0254	0257	0308	S05 E18	5988	03 25.5	14	1N	2	C	0257	197	2.1	EIJ	
	LEAR	24	0254	0257	0311	S06 E18	5988	03 25.5	17	SN	4	E		87		FE	
	YUNN	24	0259	0300	0306	S06 E17	5988	03 25.4	7	1B		C		240	2.2		
0491	TACH	24	0341	0342	0401	S12 W10	5984	03 23.4	20	SB	2	C	0342	46	0.5	E	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0492		24	03472	0349	0352	S08	E18	5988	03	25.5	5	SN					28	0.4	DT
	TACH	24	0347	0349	0353	S07	E18	5988	03	25.5	6	SB	2	C	0349		36	0.4	DT
	LEAR	24	0349	0349	0352	S08	E18	5988	03	25.5	3	SF	4	E			21		
0493		24	04241	0426	0436	S06	E16	5988	03	25.4	12	SN					30	0.4	ET
	LEAR	24	0424	0426	0434	S06	E16	5988	03	25.4	10	SF	3	E			20		
	TACH	24	0425	0426	0438	S06	E16	5988	03	25.4	13	SB	2	C	0426		41	0.4	ET
0494		24	0442*	0503*	0551	S05	E18	5988	03	25.5	69	SN	M 1.2				97	1.2	ET
	LEAR	24	0442	0503	0613	S06	E18	5988	03	25.5	91	SF	M 1.2	3	E		69		
	TACH	24	0443	0503	0554	S06	E21	5988	03	25.8	71	SB		2	C	0503	92	1.0	ET
	ABST	24	0516	0519	0525	S04	E15	5988	03	25.3	9	SN			C	0519	131	1.3	E
0495		24	05591	0605	0620	S35	W42	5974	03	20.9	21	SN					62	1.3	D
	LEAR	24	0559	0605	0625	S36	W41	5974	03	20.9	26	SF		3	E		38		
	ABST	24	0600	0605	0615	S34	W44	5974	03	20.7	15	SN			C	0605	87	1.3	D
0496		24	06031	0605	0612	S13	W04	5984	03	23.9	9	SN					56	0.9	D
	LEAR	24	0603	0605	0615	S13	W04	5984	03	23.9	12	SF		3	E		25		
	ABST	24	0604	0605	0610	S13	W04	5984	03	23.9	6	SN			C	0605	87	0.9	D
0497		24	06381	0640	0646	S06	E16	5988	03	25.5	8	SN	C 5.9				81	0.9	D
	LEAR	24	0638	0640	0648	S07	E15	5988	03	25.4	10	SF	C 5.9	3	E		75		
	ABST	24	0639	0640	0645	S05	E17	5988	03	25.5	6	SN			C	0640	87	0.9	D
0498	LEAR	24	0745	0745	0800	S34	W01	5983	03	24.2	15	SF		3	E		38		
0499	LEAR	24	0747	0750	0759	S13	W03	5984	03	24.1	12	SF		3	E		33		
0500	LEAR	24	0904	0907	0911	S13	W04	5984	03	24.1	7	SF		3	E		44		
0501	LEAR	24	0923	0924	0943	S18	E11	5987	03	25.2	20	SF		3	E		24		
0502	LEAR	24	0955	0957	1010	S37	W48	5974	03	20.5	15	SF		3	E		52		
0503	ATHN	24	1017E	1017U	1021	S37	W41	5974	03	21.1	40	1N		2	V	1017	159	2.5	
0504	RAMY	24	1136	1137	1203	S12	W08	5984	03	23.9	27	SF		3	E		28		FH
0505	RAMY	24	1246	1258	1303	S13	W07	5984	03	24.0	17	SF		3	E		23		
0506		24	14581	14591	1504	S13	W14	5984	03	23.6	6	SF					21		F
	HOLL	24	1458	1500	1503	S13	W15	5984	03	23.5	5	SF		3	E		17		
	RAMY	24	1459	1459	1504	S13	W14	5984	03	23.6	5	SF		3	E		25		F
0507	HOLL	24	1528	1533	1537	S13	W08	5984	03	24.0	9	SF		3	E		14		
0508		24	1535*	1600*	1640	S05	E12	5988	03	25.5	65	SF	C 2.8				40		H
	HOLL	24	1535	1605	1645	S06	E12	5988	03	25.5	70	SF		3	E		62		
	RAMY	24	1542	1600	1623	S05	E12	5988	03	25.5	41	SF	C 2.8	3	E		37		H
	RAMY	24	1628	1631	1651	S05	E13	5988	03	25.6	23	SF		3	E		20		
0509	HOLL	24	1625	1625	1637	S12	W09	5984	03	24.0	12	SF		3	E		22		F
0510	RAMY	24	1658	1702	1746	S05	E13	5988	03	25.7	48	SF		3	E		24		
0511		24	17572	1801*	1842	S05	E08	5988	03	25.3	45	SF					28		FK
	RAMY	24	1757	1801	1845	S05	E08	5988	03	25.3	48	SN			E		17		K
	RAMY	24	1757	1811	1845	S05	E08	5988	03	25.3	48	SF		3	E		26		F
	PALE	24	1759	1811	1837	S05	E09	5988	03	25.4	38	SF		4	E		40		F
0512	RAMY	24	1940	1943	2003	S06	E08	5988	03	25.4	23	SF	C 2.5	3	E		57		H
0513		24	2016	2023	2042	S06	E12	5988	03	25.7	26	SF					47		F
	RAMY	24	2016	2023	2040	S06	E12	5988	03	25.7	24	SF		3	E		36		
	HOLL	24	2023E	2024U	2045	S07	E12	5988	03	25.7	22D	SF		2	E		58		F
0514	HOLL	24	2128	2131	2135	S15	W16	5984	03	23.7	7	SF		3	E		12		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Imp See	Obs Type	Time (UT)	Area Measurement		Remarks
						Region	Lat								Apparent (10-6 Disk)	Corr (Sq Deg)	
0515	HOLL	24	2138	2140	2146	S06 E10	5988	03 25.6	8	SF		3	E		16		F
0516	HOLL	24	2154	2158	2221	S14 W17	5984	03 23.6	27	SF C 2.6		3	E		58		F
0517		24	2220	2220	2238	S36 W02	5983	03 24.8	18	SN C 2.5					61		EF
	PALE	24	2211E	2221U	2235	S36 E00	5983	03 24.9	24D	SF		3	E		51		F
	HOLL	24	2220	2220	2242	S35 W03	5983	03 24.7	22	SN C 2.5		3	E		71		FE
0518	VORO	25	0144		0159D	S15 W22	5984	03 23.4	15D	SF		2	C	0148	90	1.0	DIJ
0519	LEAR	25	0343	0346	0356	S13 W23	5984	03 23.4	13	SF		3	E		17		
0520		25	04106	04232	0514	S13 W20	5984	03 23.7	64	1N C 6.4					132	2.6	EFTU
	TACH	25	0410	0425	0503	S12 W20	5984	03 23.7	53	1B		2	C	0425	235	2.6	ETU
	PALE	25	0416	0423	0427D	S13 W19	5984	03 23.7	11D	SN		2	E		48		F
	LEAR	25	0416	0424	0524	S13 W20	5984	03 23.7	68	1F C 6.4		3	E		114		F
0521	LEAR	25	0643	0645	0703	S14 W21	5984	03 23.7	20	SF C 3.3		3	E		21		F
0522		25	0904	0908	0918	S13 W24	5984	03 23.6	14	SF C 5.2					71	1.4	DF
	ABST	25	0902E	0902U	0905	S13 W25	5984	03 23.5	3D	SN			P	0902	131	1.4	D
	LEAR	25	0904	0908	0932	S13 W24	5984	03 23.6	28	SF C 5.2		3	E		46		F
	SVTO	25	0908E	0911U	0920D	S13 W24	5984	03 23.6	12D	SF		2	E		37		
0523	KHAR	25	0905		0950	S13 W27	5984	03 23.3	45	SF		2	V	0905			
0524	ATHN	25	1015E	1015U	1023D	S14 W24	5984	03 23.6	8D	1N		3	V	1015	318	3.6	
0525	SVTO	25	1115E	1117U	1122D	S13 W32	5984	03 23.0	7D	SF M 1.3		2	E		47		
			25	1126		1152	No Flare Patrol										
0526	RAMY	25	1208	1209	1215	S12 W25	5984	03 23.6	7	SF		2	E		45		F
0527		25	1302	1302	1310	S33 W13	5983	03 24.5	8	SF					29		
	SVTO	25	1301E	1303U	1307	S34 W13	5983	03 24.5	6D	SF		2	E		29		
	RAMY	25	1302	1302	1312	S32 W13	5983	03 24.5	10	SF		3	E		29		
		25	1323		1335	No Flare Patrol											
0528	RAMY	25	1355	1402	1415	S05 E01	5988	03 25.6	20	SF C 2.7		2	E		37		F
0529	RAMY	25	1429	1429	1456	S10 W30	5984	03 23.3	27	SF C 2.2		2	E		27		F
			25	1447		1454	No Flare Patrol										
0530		25	16131	1618*	1859	S12 W25	5984	03 23.8	166	1N M 1.0					113		EFK
	RAMY	25	1613	1618	1906	S11 W26	5984	03 23.7	173	SN			E		77		K
	RAMY	25	1613	1758	1906	S11 W26	5984	03 23.7	173	1N M 1.0		3	E		161		F
	HOLL	25	1614	1619	1852	S12 W24	5984	03 23.9	158	1N			E		93		K
	HOLL	25	1614	1757	1852	S12 W24	5984	03 23.9	158	1N		3	E		160		FE
	PALE	25	1806E	1806U	1846D	S12 W27	5984	03 23.7	40D	SF		3	E		73		F
0531	HOLL	25	1659	1659	1704	S06 E00	5988	03 25.7	5	SF		3	E		15		F
0532	RAMY	25	1750	1750	1755	S35 W58	5974	03 21.1	5	SF		3	E		17		
0533		25	18325	1833*	1842	S32 W16	5983	03 24.5	10	SF					20		F
	RAMY	25	1832	1833	1839	S31 W17	5983	03 24.4	7	SF		3	E		17		F
	HOLL	25	1837	1843	1845	S32 W16	5983	03 24.5	8	SF		3	E		24		F
0534	RAMY	25	1836	1837	1847	S04 W03	5988	03 25.5	11	SF		3	E		17		F
0535	RAMY	25	1859	1901	1907	S35 W58	5974	03 21.1	8	SF		3	E		21		
0536		25	1932	1953*	2045	S13 W30	5984	03 23.5	73	1N M 2.7					111		EFK
	RAMY	25	1932	1953	2045	S12 W29	5984	03 23.6	73	1B M 2.7		3	E		145		F
	HOLL	25	1952E	1953U	2050D	S13 W30	5984	03 23.6	58D	1B		3	E		157		FE
	HOLL	25	1952E	2018	2050D	S13 W30	5984	03 23.6	58D	SF			E		32		K

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See Type	Time (UT)	Area Measurement		Remarks		
												Apparent (10-6 Disk)	Corr (Sq Deg)			
0537	RAMY	25	2141	2149	S31	W68 5974	03 20.5	14	SF C 3.1	3	E		21			
		25	2207	2210	No Flare Patrol											
0538	VORO	25	2354	2356	S05	W08 5988	03 25.4	10	SF	2	C	2356	72		DI	
0539	LEAR	26	0009	0012	S32	W67 5974	03 20.7	17	SF C 3.2	3	E		16			
0540	LEAR	26	0021	0025	S13	W28 5984	03 23.9	24	SF	3	E		21			
0541		26	00361	00371	0042	S29 W26 5983	03 24.0	6	SF				56	1.1	D	
	VORO	26	0036	0038	0041	S29 W27 5983	03 23.9	5	SF	2	C	0038	90	1.1	D	
	LEAR	26	0037	0037	0042	S29 W26 5983	03 24.0	5	SF	3	E		21			
0542		26	00455	00512	0109	S36 W63 5974	03 21.0	24	SF C 4.8				68	1.8	EJ	
	LEAR	26	0045	0053	0114	S37 W63 5974	03 20.9	29	SF C 4.8	3	E		50			
	VORO	26	0047	0051	0108	S36 W65 5974	03 20.8	21	1F	2	C	0051	108	2.6	EJ	
	YUNN	26	0050	0053	0106	S36 W62 5974	03 21.0	16	SN		C		47	1.1		
0543		26	01376	01386	0144	S29 W27 5983	03 23.9	7	SF				50	0.6	D	
	VORO	26	0137	0138	0139	S29 W27 5983	03 23.9	2	SF	2	C	0138	45	0.6	D	
	VORO	26	0143	0144	0148	S29 W27 5983	03 23.9	5	SF	2	C	0144	54	0.7	D	
0544		26	01521	01562	0206	S04 W10 5988	03 25.3	14	SN				140	1.4	DEI	
	VORO	26	0152	0156	0207	S04 W10 5988	03 25.3	15	SF	2	C	0156	134	1.4	DI	
	PEKG	26	0153	0158	0205	S05 W10 5988	03 25.3	12	SN		C	0158	147	1.5	E	
0545		26	0210	02136	0230	S06 E07 5988	03 26.6	20	SF C 4.1				72	0.3	EI	
	VORO	26	0210	0213	0229	S06 E07 5988	03 26.6	19	SF	2	C	0213	152		EI	
	PALE	26	0215E	0219	0235D	S06 E07 5988	03 26.6	20D	SF C 4.1	3	E		33			
	YUNN	26	0220E	0220U	0230	S07 E06 5988	03 26.5	10D	SN		P	0220	31	0.3		
0546	VORO	26	0217	0219	0228	S15 W36 5984	03 23.4	11	SF	2	C	0219	72	0.9	DIJ	
0547	LEAR	26	0341	0343	0348	S34 W73 5974	03 20.3	7	SF	3	E		22			
0548		26	0409*	0506*	0550	S13 W33 5984	03 23.7	101	SN M 3.5				109	2.0	EFK	
	LEAR	26	0341E	0343U	0407	S13 W30 5984	03 23.9	26D	1N M 3.5	3	E		100			
	PALE	26	0359E	0359U	0415D	S12 W30 5984	03 23.9	16D	SF	3	E		47			
	LEAR	26	0409	0506	0622	S13 W35 5984	03 23.5	133	1N M 2.6	3	E		163		F	
	LEAR	26	0409	0532	0622	S13 W35 5984	03 23.5	133	SN		E		77		K	
	ABST	26	0611	0613	0628	S14 W35 5984	03 23.6	17	SN		C	0613	157	2.0	E	
0549	LEAR	26	0506	0508	0517	S04 W13 5988	03 25.2	11	SF	3	E		54			
0550	LEAR	26	0611	0613	0637	S06 E03 5988	03 26.5	26	SF C 6.7	3	E		47		F	
0551		26	0756*	0815*	0849	S15 W36 5984	03 23.6	53	1N C 4.6				50		EFU	
	ISTA	26	0756	0825	0835	S13 W37 5984	03 23.5	39	1N		P				E	
	LEAR	26	0811	0821	0856	S16 W37 5984	03 23.5	45	SF C 4.6	3	E		50		F	
	HURB	26	0815	0815		S18 W33 5984	03 23.8		1N						U	
	ISTA	26	0840		0857	S13 W35 5984	03 23.7	17	1N		P				E	
0552	ISTA	26	0857E		0910	S05 W10 5988	03 25.6	13D	1F		P				E	
0553	LEAR	26	0922	0923	0927	S14 W38 5984	03 23.5	5	SF	3	E		27			
		26	1026		1104	No Flare Patrol										
0554	KAND	26	1110	1113	1126	S10 W42 5980	03 23.3	16	SB		P	1113	125	1.7	E	
0555	RAMY	26	1203	1204	1218	S13 W40 5984	03 23.5	15	SF	3	E		21			
0556	RAMY	26	1219	1220	1226	S08 E02 5988	03 26.7	7	SF C 4.9	3	E		16		F	
0557	RAMY	26	1232	1232	1238	S33 W73 5974	03 20.7	6	SF	3	E		13			
0558		26	1307	1312*	1344	S13 W41 5984	03 23.4	37	SF C 9.0				29		K	
	RAMY	26	1307	1312	1344	S13 W41 5984	03 23.4	37	SF		E		19		K	
	RAMY	26	1307	1322	1344	S13 W41 5984	03 23.4	37	SF C 9.0	3	E		39			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0559	RAMY	26	1318	1324	1338	N22	W36	5991	03 23.8	20	SF		3	E		44			
0560	RAMY	26	1331	1335	1348	S32	W74	5974	03 20.7	17	SF		3	E		55			F
0561	RAMY	26	1410	1422	1456	S14	W41	5984	03 23.5	46	SF C	3.4	3	E		18			
0562	RAMY	26	1412	1415	1442	N19	E27		03 28.6	30	SF		3	E		52			
0563	RAMY	26	1445	1446	1450	S31	W71	5974	03 21.0	5	SF C	3.3	3	E		13			
0564	RAMY	26	1507	1508	1528	S14	W41	5984	03 23.5	21	SF		3	E		15			
0565	RAMY	26	1530	1545	1554	S31	W28	5983	03 24.4	24	SF		3	E		18			
0566	RAMY	26	1533	1534	1543	S13	W41	5984	03 23.5	10	SF		3	E		16			
0567		26	15551	15583	1623	S06	W02	5988	03 26.5	28	1N C	6.1				108			EF
	RAMY	26	1555	1601	1623	S06	E01	5988	03 26.7	28	1F C	6.1	3	E		172			FE
	HOLL	26	1556	1558	16260	S06	W06	5988	03 26.2	300	SN		2	E		43			FE
		26	2052		2057														No Flare Patrol
		26	2106		2125														No Flare Patrol
		26	2137		2242														No Flare Patrol
0568	LEAR	27	0129	0129	0132	S37	W74	5974	03 21.1	3	SF		3	E		16			
0569	LEAR	27	0145	0145	0155	S31	W33	5983	03 24.5	10	SF C	2.5	3	E		22			F
0570	LEAR	27	0353	0356	0401	S13	W49	5984	03 23.5	8	SF		3	E		15			F
0571		27	0355*	0358*	0427	S04	W22	5988	03 25.5	32	SN					51	1.5		EF
	TACH	27	0355	0410	0501	S05	W22	5988	03 25.5	66	SB		1	C	0410	132	1.5		E
	LEAR	27	0356	0358	0400	S04	W21	5988	03 25.6	4	SF		3	E		14			
	LEAR	27	0406	0410U	0417	S05	W22	5988	03 25.5	11	SF		3	E		31			
	LEAR	27	0417	0423	0431	S04	W21	5988	03 25.6	14	SF		3	E		27			F
0572	LEAR	27	0411	0414	0421	S12	W48	5984	03 23.5	10	SF		3	E		16			
0573		27	04142	04171	0430	S35	W78	5974	03 20.9	16	1N M	1.1				153			DH
	LEAR	27	0414	0417	0432	S37	W76	5974	03 21.0	18	1N M	1.1	3	E		198			H
	PALE	27	0414	0418	04270	S33	W81	5974	03 20.7	130	1F		3	E		124			
	TACH	27	0416	0417	0429	S35	W76	5974	03 21.1	13	1B		1	C	0417	138			D
0574		27	0735	07366	0812	S12	W52	5984	03 23.4	37	1F					22			
	LEAR	27	0735	0742	0806	S12	W51	5984	03 23.5	31	SF		3	E		22			
	KHAR	27	0736E	0736	0818	S13	W52	5984	03 23.4	420	1F		2	P	0736				
0575	KHAR	27	0748	0750	0757	N23	W46	5991	03 23.8	9	SF		2	P	0752				EL
0576		27	07581	07581	0804	S16	W26	5987	03 25.4	6	SN C	3.8				54	0.8		DE
	YUNN	27	0757E	0757U	0802	S17	W27	5987	03 25.3	50	SN			P	0757	94	1.1		
	LEAR	27	0758	0758	0804	S16	W25	5987	03 25.4	6	SF C	3.8	3	E		29			
	KHAR	27	0758	0759	0804	S16	W28	5987	03 25.2	6	SN		2	V	0759				D
	HPR	27	0759	0759	0805	S17	W24	5987	03 25.5	6	SF			C	0759	40	0.5		E
0577	KHAR	27	0802	0803	0810	S03	W25	5988	03 25.5	8	SF		2	V	0803				D
0578	KHAR	27	0815	0816	0825	S34	W85	5974	03 20.6	10	SF		2	V	0816				D
0579		27	0828*	0834*	0843	S15	W52	5984	03 23.4	15	SF					45	0.7		D
	KHAR	27	0828	0834	0840	S14	W53	5984	03 23.3	12	SN		2	P	0834				D
	HPR	27	0832	0834	0838	S14	W53	5984	03 23.3	6	SF			C	0834	40	0.6		
	HPR	27	0847	0848	0850	S16	W50	5984	03 23.6	3	SF			C	0848	50	0.8		
0580	HPR	27	0836	0836	0850	S08	W23	5988	03 25.6	14	SF			C	0836	20	0.2		D
0581	HPR	27	0838	0840	0845	N22	W48	5991	03 23.7	7	SF			C	0840	30	0.5		D
0582	HPR	27	0948	0955	1020	S05	W11	5988	03 26.6	32	SF			C	0955	40	0.4		EH

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Grp #	Sta	Start Day (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)		
0583		27 09484	0953	1000	S03	W25	5988	03	25.5	12	SF			90	1.0	J		
	HTPR	27 0948	0953	1000	S03	W25	5988	03	25.5	12	SF		C	0953	90	1.0	J	
	KHAR	27 0952		0955D	S03	W25	5988	03	25.5	3D	SF	1	V	0952				
0584		27 1011	1041*	1229D	S14	W45	5984	03	24.0	138D	SF			83	1.3	JK		
	HTPR	27 1011	1041	1229D	S14	W45	5984	03	24.0	138D	SF		C	1043	40	0.6	JK	
	HTPR	27 1011	1128	1229D	S14	W45	5984	03	24.0	138D	SF		C	1128	60	0.9	K	
	HTPR	27 1011	1209	1229D	S14	W45	5984	03	24.0	138D	1F		C	1209	150	2.3	K	
0585		27 1051*	1055*	1130	S05	W26	5988	03	25.5	39	SF			15	0.2	D		
	HTPR	27 1051	1055	1120	S07	W27	5988	03	25.4	29	SF		C	1055	10	0.1	D	
	HTPR	27 1116	1120	1140	S03	W25	5988	03	25.6	24	SF		C	1120	20	0.2		
0586	HTPR	27 1158	1200	1205	S07	W27	5988	03	25.5	7	SF		C	1203	30	0.3	H	
0587	HTPR	27 1214	1225	1229D	N22	W48	5991	03	23.8	15D	1N		C	1225	120	2.1		
		27 1230		1239	No Flare Patrol													
		27 1249		1344	No Flare Patrol													
0588		27 1345E	1418	1510	S12	W48	5984	03	23.9	85D	1N	C 6.8		82	1.0			
	SVTO	27 1345E	1345U	1410D	S10	W50	5984	03	23.8	25D	1N	C 6.8	1	E	103			
	HTPR	27 1417E	1418	1510	S14	W45	5984	03	24.2	53D	SF		C	1418	60	1.0		
		27 1405		1409	No Flare Patrol													
		27 1412		1416	No Flare Patrol													
0589	HTPR	27 1419	1429	1437	S07	W27	5988	03	25.6	18	SN		C	1429	40	0.5		
0590	HTPR	27 1511	1524	1555	S12	W47	5984	03	24.1	44	SN		C	1524	60	0.9		
0591		27 1534*	1555*	1626	S06	W26	5988	03	25.7	52	SF			74	1.1	H		
	HTPR	27 1534	1555	1620	S04	W25	5988	03	25.8	46	SN		C	1555	170	2.0		
	HTPR	27 1605	1608	1625	S08	W23	5988	03	25.9	20	SF		C	1608	50	0.6		
	HTPR	27 1627	1630	1637D	S07	W27	5988	03	25.7	10D	SF		C	1630	60	0.7		
	RAMY	27 1628E	1629	1633	S05	W31	5988	03	25.4	5D	SF	3	E		14		H	
0592	HTPR	27 1535	1546	1610	S35	W29	5983	03	25.3	35	SF		C	1546	40	0.5		
0593	HOLL	27 1615E	1619U	1637	S14	W54	5984	03	23.6	22D	SF	3	E		49		F	
0594	HOLL	27 1652E	1652U	1659D	N11	W19		03	26.3	7D	SF	3	E		20		H	
0595	RAMY	27 1743E	1743U	1747	S12	W54	5984	03	23.7	4D	SF	C 2.8	3	E		16		F
0596		27 1903	1911	1932	S12	W52	5984	03	23.9	29	SF	C 3.2		74				
	RAMY	27 1900E	1909U	1933D	S11	W50	5984	03	24.0	33D	SF	1	E		74			
	HOLL	27 1903	1911	1932	S11	W51	5984	03	23.9	29	1F	C 3.2	3	E		128		
	PALE	27 1930E	1932U	1939D	S13	W56	5984	03	23.6	9D	SF	3	E		20			
		27 1919		1927	No Flare Patrol													
		27 1954		2006	No Flare Patrol													
0597	PALE	27 1959	2017	2045	S14	W56	5984	03	23.6	46	1F	C 9.5	3	E		130		F
		27 2103		2125	No Flare Patrol													
		27 2152		2221	No Flare Patrol													
0598	VORO	27 2234	2237	2246	S14	W56	5984	03	23.7	12	1F		2	C	2237	143	2.6	E1T
0599	VORO	27 2240	2241	2256	S06	W36	5988	03	25.2	16	SF		2	C	2241	134	1.7	DH1JT
0600	PALE	27 2338	2338	2345D	S13	W58	5984	03	23.6	7D	SF		3	E		18		F
0601		28 00081	0010	0016	S04	W31	5988	03	25.7	8	SF	C 2.8		67	1.4	E1JT		
	VORO	28 0008	0010	0016	S03	W35	5988	03	25.4	8	SF		2	C	0010	116	1.4	E1JT
	PALE	28 0009	0010	0021D	S05	W27	5988	03	26.0	12D	SF	C 2.8	3	E		18		

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0602		28	01374	01405	0200	S12	W54	5984	03	24.0	23	1F				97	2.9	EIT
	VORO	28	0137	0140	0156	S12	W54	5984	03	24.0	19	1F	2	C	0140	170	2.9	EIT
	PALE	28	0141	0145	0205	S11	W54	5984	03	24.0	24	SF	3	E		24		
0603		28	01512	01542	0209	S04	W32	5988	03	25.7	18	SF C 4.9				91	2.6	EFIJT
	LEAR	28	0151	0156	0209	S03	W33	5988	03	25.6	18	SF	3	E		42		F
	PALE	28	0152E	0154	0215D	S05	W32	5988	03	25.7	23D	SF C 4.9	3	E		16		
	VORO	28	0153	0156	0200D	S05	W32	5988	03	25.7	7D	1F	2	C	0156	215	2.6	EIJT
0604	LEAR	28	0229	0230	0238	N23	W60	5991	03	23.5	9	SF C 3.5	3	E		32		
0605	LEAR	28	0453	0453	0503	S13	W63	5984	03	23.4	10	SF C 2.8	3	E		20		
0606	LEAR	28	0551	0557	0606	S12	W65	5984	03	23.3	15	SF C 3.7	3	E		32		
0607		28	0656	0700	0712	N23	W62	5991	03	23.5	16	SF C 5.2				41	1.5	
	HTPR	28	0656	0700	0710	N23	W62	5991	03	23.5	14	SF		C	0700	60	1.5	
	LEAR	28	0656	0700	0713	N23	W63	5991	03	23.4	17	SF C 5.2	3	E		22		
0608	ISTA	28	0657		0700	S13	W66	5984	03	23.3	3	SN		P				D
0609		28	07122	07141	0719	S14	W65	5984	03	23.4	7	SN				43	1.2	D
	HTPR	28	0712	0715	0720	S14	W68	5984	03	23.2	8	SN		C	0715	40	1.0	D
	KAND	28	0713	0714	0719	S15	W65	5984	03	23.4	6	SB		P	0714	62	1.4	D
	LEAR	28	0713	0714	0721	S13	W67	5984	03	23.2	8	SF	3	E		27		
	ISTA	28	0714		0717	S13	W60	5984	03	23.8	3	SF		P				D
0610		28	07274	0733*	0948	S05	W35	5988	03	25.7	141	2N M 4.2				387	5.5	EFIJKWZ
	HTPR	28	0727	0741	0915D	S07	W35	5988	03	25.7	108D	1B		C	0741	400	4.9	IJUWZ
	ISTA	28	0731		0825D	S06	W35	5988	03	25.7	54D	3B		P				FIJKZ
	LEAR	28	0731	0733	0948	S04	W37	5988	03	25.5	137	2F		E		272		K
	LEAR	28	0731	0745	0948	S04	W37	5988	03	25.5	137	2N M 4.2	3	E		250		FE
	ATHN	28	0733E	0745U	0812D	S07	W35	5988	03	25.7	39D	2B	3	V	0745	509	6.3	
	KAND	28	0744E		0757D	S01	W36	5988	03	25.6	13D	2B		P	0747	416	5.2	EZ
	ATHN	28	0825E	0830U	0855D	S08	W31	5988	03	26.0	30D	2N	3	V	0830	477	5.6	
0611		28	07366	07444	0806	S14	W66	5984	03	23.3	30	SF				51	1.2	
	HTPR	28	0736	0744	0805	S14	W68	5984	03	23.2	29	SF		C	0744	50	1.2	
	LEAR	28	0742	0748	0806	S14	W65	5984	03	23.4	24	SF	3	E		52		
0612		28	07416	07427	0759	S19	W38	5987	03	25.4	18	SF				42	0.6	D
	HTPR	28	0741	0742	0744	S20	W40	5987	03	25.3	3	SF		C	0742	50	0.8	
	HTPR	28	0741	0744	0755	S18	W36	5987	03	25.6	14	SN		C	0744	50	0.6	
	LEAR	28	0741	0745	0808	S19	W39	5987	03	25.3	27	SF	3	E		50		
	HTPR	28	0747	0749	0810	S20	W38	5987	03	25.4	23	SF		C	0749	20	0.3	D
0613	HTPR	28	0755	0818	0950	N11	W46		03	24.9	115	SF		C	0818	140	2.0	W
0614	HTPR	28	0830	0915	1015D	S17	W38	5987	03	25.5	105D	SF		C	0915	110	1.4	
0615		28	09284	09342	0954	N24	W62	5991	03	23.6	26	1N M 1.4				64	2.5	
	HTPR	28	0928	0934	1005	N23	W62	5991	03	23.6	37	1N		C	0934	100	2.5	
	LEAR	28	0932	0936	0944	N26	W61	5991	03	23.6	12	SF M 1.4	3	E		27		
0616		28	0941	09486	1000	S14	W68	5984	03	23.3	19	SF				35	0.9	K
	HTPR	28	0941	0948	1000	S14	W68	5984	03	23.3	19	SF		C	0948	30	0.8	K
	HTPR	28	0941	0954	1000	S14	W68	5984	03	23.3	19	SF		C	0954	40	1.0	K
0617		28	1147	1148	1203	S06	W38	5988	03	25.6	16	SF C 7.9				42		H
	RAMY	28	1147	1148	1203	S06	W39	5988	03	25.6	16	SF C 7.9	2	E		42		H
	KANZ	28	1149E		1157D	S07	W38	5988	03	25.6	8D	SF		C				
0618	SVTO	28	1151E	1151U	1204D	S06	W38	5988	03	25.6	13D	SF	1	E		30		
0619	RAMY	28	1218	1218	1230	N25	W62	5991	03	23.7	12	SF	3	E		14		
0620	RAMY	28	1308	1316	1325	S06	W39	5988	03	25.6	17	SF	3	E		31		
0621	HTPR	28	1512	1524	1535	S14	W68	5984	03	23.5	23	SF		C	1524	20	0.5	E

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks		
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0622		28	1538*	1552*	1626	S13	W69	5984	03	23.4	48	SF	C	5.0			54	0.9	HK	
	HTPR	28	1538	1552	1615	S14	W68	5984	03	23.5	37	SN				1552	30	0.8		
	RAMY	28	1549	1552	1631	S12	W70	5984	03	23.4	42	SF					58		K	
	RAMY	28	1549	1558	1631	S12	W70	5984	03	23.4	42	SF	C	5.0	3	E	90		H	
	HTPR	28	1619	1622	1625	S14	W68	5984	03	23.5	6	SF				1622	40	1.0		
0623	RAMY	28	1645	1648	1700	S12	W71	5984	03	23.3	15	SF	C	4.0	3	E				
0624	RAMY	28	1703	1711	1728	S12	W67	5984	03	23.7	25	SF								
		28	1738		1843	No Flare Patrol														
0625		28	1831	1846	1859	S13	W68	5984	03	23.6	28	SF	C	4.3				61		
	RAMY	28	1831	1846	1859	S13	W68	5984	03	23.6	28	SF			3	E		61		
	RAMY	28	1844E	1846U	1859	S13	W68	5984	03	23.6	15D	SF	C	4.3	3	E		61		
0626	RAMY	28	1927	1927	1932	S12	W72	5984	03	23.4	5	SF			3	E				
0627		28	2030	2031	2113	S13	W71	5984	03	23.5	43	SN	C	7.0				34	EFH	
	PALE	28	2030	2031	2113D	S13	W69	5984	03	23.6	43D	SF	C	7.0	4	E		31	F	
	HOLL	28	2031E	2031U	2113	S13	W73	5984	03	23.3	42D	SN			2	E		37	EH	
		28	2127		2136	No Flare Patrol														
		28	2144		2146	No Flare Patrol														
0628	PALE	28	2154	2155	2202	S07	W43	5988	03	25.7	8	SF	C	2.3	3	E		25	F	
		28	2220		2229	No Flare Patrol														
		28	2237		2246	No Flare Patrol														
0629	VORO	28	2247E	2308	2421	N24	W70	5991	03	23.5	94D	1F			2	C	2308	108	EJ	
0630		28	2305	2325	2338	S14	W75	5984	03	23.3	33	1N	C	4.0				66	DHIJ	
	VORO	28	2305	2325	2338	S14	W79	5984	03	23.0	33	1N			2	C	2325	99	DHIJ	
	PALE	28	2323E	2323U	2342D	S13	W71	5984	03	23.6	19D	SF	C	4.0	3	E		33		
0631	VORO	28	2356	2359	2402	S14	W79	5984	03	23.0	6	1F			2	C	2359	81	DIJ	
0632	VORO	29	0029	0031	0041	S14	W79	5984	03	23.0	12	1F			2	C	0031	90	DIJ	
0633	LEAR	29	0105	0121	0139	N24	W74	5991	03	23.3	34	1F			3	E		122		
0634	LEAR	29	0121	0128	0135	S12	W74	5984	03	23.5	14	SF	C	2.9	3	E		54		
0635	HTPR	29	0718	0727	0743	S14	W80	5984	03	23.2	25	SF				C	0727	20		
0636	HTPR	29	0758	0759	0817	S15	E10	5998	03	30.1	19	SF				C	0759	60	0.6	H
0637	HTPR	29	0810	0812	0815	S07	W54	5988	03	25.3	5	SF				C	0812	20	0.3	D
0638	HTPR	29	0822	0827	0830	N25	W80	5991	03	23.1	8	SF				C	0827	30		
0639		29	08273	08302	0845	S32	W60	5983	03	24.6	18	SF	C	3.8				46	1.7	
	HTPR	29	0827	0832	0850	S30	W60	5983	03	24.6	23	SF				C	0832	70	1.7	
	KANZ	29	0830	0830	0841	S33	W60	5983	03	24.6	11	SF				C				
	LEAR	29	0830	0832	0843	S33	W61	5983	03	24.5	13	SF	C	3.8	3	E		22		
0640	HTPR	29	0837	0837	0842	S14	W80	5984	03	23.3	5	SF				C	0837	20		
0641	KHAR	29	0952U		1011	N14	E90	6001	04	5.2	19U	SF			2	P	0952		E	
0642	HTPR	29	0953	0954	1003D	N23	E80		04	4.6	10D	SF				C	0954	10		
0643	HTPR	29	0955	0956	1005	S14	W80	5984	03	23.4	10	SF				C	0956	40		
0644	HTPR	29	1215	1218	1221	S05	W58	5988	03	25.2	6	1F				C	1218	120	2.2	
0645	HTPR	29	1222	1224	1227	S14	W80	5984	03	23.5	5	SF				C	1224	40	A	

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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)	
0646	HTPR	29	1303	1305	1325	S14 W80	5984	03 23.5	22	1F	C	1305	60		A
			29 1337		1343	No Flare Patrol									
			29 1357		1426	No Flare Patrol									
0647	RAMY	29	1633	1635	1650	S12 W84	5984	03 23.4	17	SF	3 E		15		
0648	RAMY	29	1657	1658	1701	N24 W80	5991	03 23.5	4	SF	3 E		28		
0649	HOLL	29	1909	1909	1927D	N23 W78	5991	03 23.8	180	SF	3 E		76		
			29 1917		1925	No Flare Patrol									
			29 1930		1943	No Flare Patrol									
			29 1950		2013	No Flare Patrol									
			29 2026		2034	No Flare Patrol									
0650	VORO	30	0057	0059	0114	S08 W61	5988	03 25.5	17	SF	2 C	0059	72	1.4	DIJ
0651	VORO	30	0118	0119	0123	S12 W85	5984	03 23.6	5	1F	2 C	0119	36		DHIJ
0652		30	0158	0159	0203	S12 W85	5984	03 23.7	5	1F C 4.0			91		DHIJ
	VORO	30	0158		0200D	S12 W85	5984	03 23.7	20	2F	2 C	0159	99		DHIJ
	PALE	30	0158	0159	0203	S13 W85	5984	03 23.7	5	SF C 4.0	3 E		83		
0653	HTPR	30	0650E	0652	0705	N08 W12	5993	03 29.4	150	SF	C	0652	70	0.7	
0654		30	0720*	0724*	0746	S12 W85	5984	03 23.9	26	1N C 6.9			45		AFHKY
	HTPR	30	0720	0725	0750	S12 W85	5984	03 23.9	30	1N	C	0725	60		AK
	HTPR	30	0720	0729	0750	S12 W85	5984	03 23.9	30	1N	C	0729	70		AK
	HTPR	30	0720	0745	0750D	S12 W85	5984	03 23.9	300	SN	C	0745	40		AK
	LEAR	30	0724	0724	0732	S11 W88	5984	03 23.7	8	SF C 6.9	3 E		23		F
	KHAR	30	0732E		0750	S14 W90	5984	03 23.5	180	1N	2 P				HY
	YUNN	30	0737E	0740U	0748D	S15 W81	5984	03 24.2	110		P	0740			
	LEAR	30	0744	0745	0749	S12 W83	5984	03 24.1	5	SF C 2.5	3 E		31		
0655		30	0856*	0858*	0917	S14 W90	5984	03 23.6	21	SN					H
	KHAR	30	0856	0858	0905U	S14 W90	5984	03 23.6	90	SN	2 P				H
	KHAR	30	0913	0914	0917	S14 W90	5984	03 23.6	4	SF	2 V	0914			H
0656	KHAR	30	0955U		1020U	N30 E12	5996A	03 31.3	250	SF	2 V	0955			D
			30 1021		1026	No Flare Patrol									
			30 1028		1039	No Flare Patrol									
0657	KHAR	30	1040E		1102D	N29 E16	5996A	03 31.7	220	SF	2 V	1040			D
0658	KHAR	30	1057	1058	1102D	S14 W90	5984	03 23.6	50	1F	2 V	1058			E
			30 1342		1412	No Flare Patrol									
			30 1434		1441	No Flare Patrol									
0659	RAMY	30	1657	1657	1701	S04 W67	5988	03 25.7	4	SF	3 E		16		
0660		30	1931	1935	1942	S30 W80	5983	03 24.5	11	SF			25		F
	HOLL	30	1931	1935	1948D	S31 W80	5983	03 24.5	170	SF	3 E		30		F
	RAMY	30	1934E	1938U	1942	S29 W80	5983	03 24.5	80	SF	3 E		20		
			30 2103		2142	No Flare Patrol									
			31 0403		0414	No Flare Patrol									
			31 0418		0519	No Flare Patrol									
0661	HTPR	31	0747	0751	0800	N28 W04	5996A	03 31.0	13	SF	C	0751	30	0.4	
0662		31	08338	0841	0854	S06 W76	5988	03 25.7	21	SF			52		F
	HTPR	31	0833	0841	0908	S07 W73	5988	03 25.9	35	1N	C	0841	80		
	SVTO	31	0837	0841	0857	S05 W78	5988	03 25.5	20	SF	3 E		60		F
	LEAR	31	0840	0841	0844	S06 W76	5988	03 25.7	4	SF	3 E		17		
	KANZ	31	0841	0841	0845	S04 W75	5988	03 25.7	4	SF	C				

H α SOLAR FLARES

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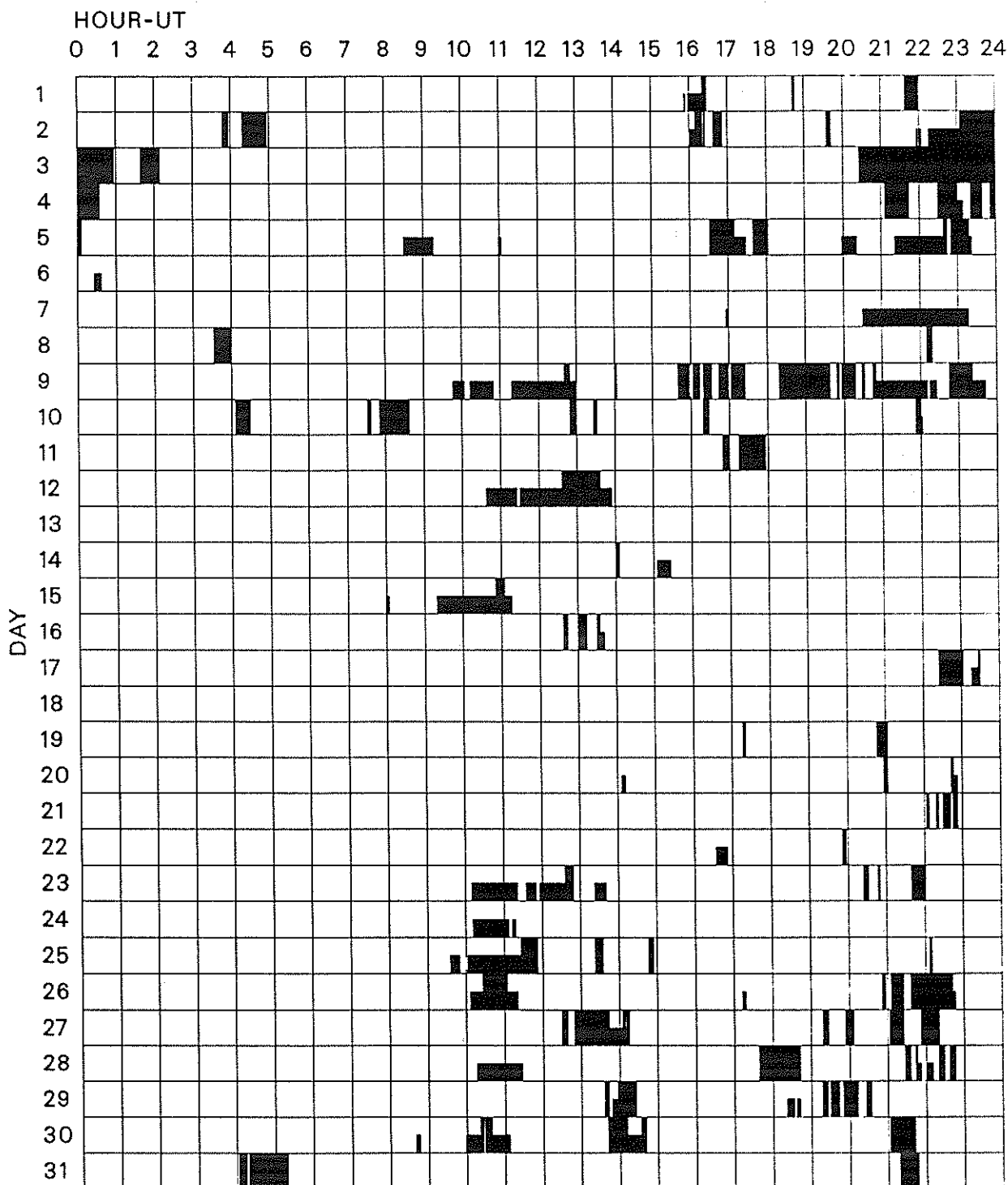
Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0663	HTPR	31	0918	0921	0930	S07 W73	5988	03	25.9	12	SF		C	0921	30		
0664		31	11161	11173	1127	S05 W76	5988	03	25.8	11	SF C 8.7				34		F
	HTPR	31	1116	1117	1130	S07 W73	5988	03	26.0	14	1F		C	1117	50		
	KANZ	31	1116	1120	1128	S05 W77	5988	03	25.7	12	SF		C				
	RAMY	31	1117	1117	1122	S03 W78	5988	03	25.6	5	SF C 8.7	3	E		19		F
		31	2118		2147	No Flare Patrol											

"Remarks"

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

MARCH 1990



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

Abastumani
Athens
Bucharest
Haute Provence

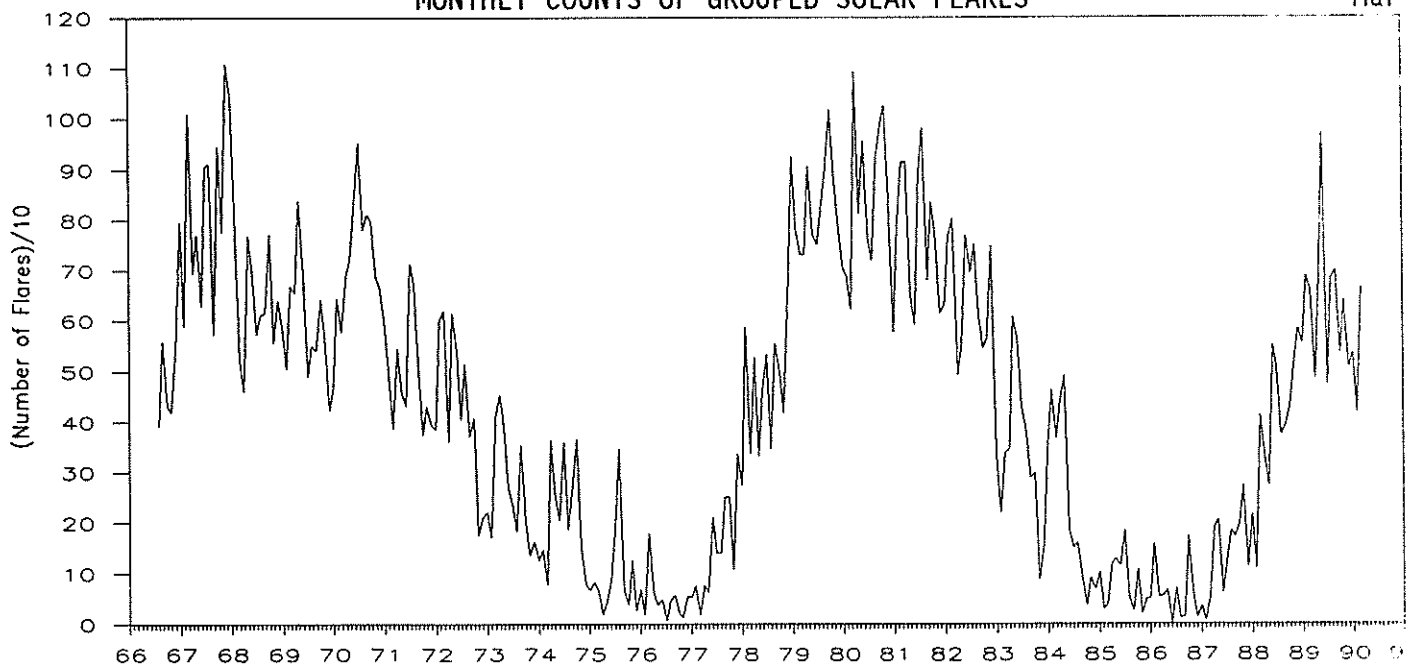
Holloman
Hurbanovo
Istanbul
Kandilli

Kanzelhoehe
Kharkov
Learmonth
Mitaka

Palehua
Peking
Purple Mt.
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	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	390	429	508	584	4680
1989	689	539	658	485	686	971	473	684	699	535	640	507	7566
1990	536	415	664										1615

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

MARCH 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
01	100	GORK	44 NS	0443.0E		409.0D				
	200	GORK	43 NS	0445.0		405.0				
	127	TORN	44 NS	0630.0E		510.0D		14.0		V=1
	204	IZMI	43 NS	0700.0		300.0		10.0		
	260	ONDR	44 NS	0800.0E	1311.5	440.0D		431.0		
	100	HIRA	42 SER	0109.0	0111.0	38.0		615.0		
	200	HIRA	42 SER	0130.4	0134.3	9.2		115.0		0
	245	LEAR	8 S	0133.0E	0135.0	2.0D		54.0		QL=4 ST=2 TYP=3
	17000	NOBE	7 C	0338.7	0339.3	15.0		56.0		0,80,35GHz:0
	500	HIRA	42 SER	0338.8	0339.5	32.5		144.0		0
	4995	LEAR	20 GRF	0402.0E	0410.0	12.0D		47.0		QL=4 ST=2 TYP=2
	610	LEAR	8 S	0409.0E	0410.0	1.0D		110.0		QL=4 ST=2 TYP=3
	200	HIRA	42 SER	0426.4	0435.6	11.2		60.0		0
	200	HIRA	42 SER	0503.0	0518.2	17.2		71.0		0
	9300	KISV	22 GRF	0517.0	0522.5	22.5		15.0		
	9100	GORK	22 GRF	0527.0	0532.4	66.0		14.0		
	5900	KISV	23 GRF	0527.2	0529.9	23.4		12.0		
	5900	KISV	2 S/F	0531.3	0532.3	3.5		16.0		
	2950	GORK	1 S	0531.8	0532.4	1.7		7.0		
	100	GORK	42 SER	0612.0	0630.2			650.0		
	100	GORK	42 SER	0612.0	0615.2	20.0		650.0		
	100	GORK	42 SER	0612.0	0624.4			390.0		
	200	GORK	41 F	0612.0	0618.4	18.0		220.0		
	200	GORK	41 F	0612.0	0627.6			160.0		
	100	GORK	42 SER	0612.0	0627.6			840.0		
	100	GORK	42 SER	0612.0	0617.8			1000.0		
	100	HIRA	42 SER	0613.2	0617.3	14.5		910.0		
	950	GORK	41 F	0614.6	0628.0			3.0		
	950	GORK	41 F	0614.6	0624.1			1.0		
	950	GORK	41 F	0614.6	0618.9			7.0		
	950	GORK	41 F	0614.6	0614.9	13.6		2.0		
	650	GORK	41 F	0614.7	0628.0			8.0		
	650	GORK	41 F	0614.7	0624.1			5.0		
	200	HIRA	42 SER	0614.7	0618.1	13.2		280.0		0
	650	GORK	41 F	0614.7	0617.2			30.0		
	650	GORK	41 F	0614.7	0614.9	13.5		17.0		
	245	LEAR	4 S/F	0617.0E	0618.0	3.0D		130.0		QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0617.0E	0617.0	3.0D		170.0		QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0617.0	0627.5	11.5		76.0		WL
	245	LEAR	8 S	0627.0E	0627.0	U		190.0		QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0704.8	0705.7	2.9		5.0		
	5900	KISV	1 S	0819.8	0820.3	1.0		3.0		
	9300	KISV	1 S	0820.1	0820.2	0.9		4.0		
	9100	GORK	21 GRF	0827.0	1018.0	273.0D		9.0		
	9100	GORK	3 S	0828.5	0829.0	1.2		32.0		
	5900	KISV	4 S/F	0828.5	0829.0	4.1		34.0		
	9300	KISV	4 S/F	0828.5	0829.0	5.5		37.0		
	2950	GORK	1 S	0828.7	0829.2	1.2		3.0		
	15000	KISV	2 S/F	0828.8	0829.0	1.4		15.0		
	245	SVTO	8 S	0837.0E	0838.0	1.0D		64.0		QL=2 ST=2 TYP=3
5900	KISV	45 C	0903.3	0907.2			3.0			
5900	KISV	45 C	0903.3	0904.2	6.1		5.0			
9300	KISV	20 GRF	0903.5	0904.4	27.3		6.0			
9300	KISV	20 GRF	0903.5	0916.7			6.0			
245	SVTO	8 S	0928.0E	0928.0	U		290.0		QL=4 ST=2 TYP=3	
5900	KISV	20 GRF	0943.9	0945.3	13.7		5.0			
200	GORK	4 S/F	0947.2	0948.7	2.0		40.0			
100	GORK	4 S/F	0947.7	0948.7	1.6		25.0			
204	IZMI	41 F	0948.0	0951.2	4.7		118.0			
5900	KISV	23 GRF	1011.4	1022.5	17.2		7.0			
9300	KISV	20 GRF	1014.5	1015.9	16.4		5.0			
5900	KISV	2 S/F	1014.9	1015.9	4.0		9.0			
204	IZMI	41 F	1017.0	1017.2	1.5		150.0			
100	GORK	4 S/F	1104.0	1106.0	2.9		395.0			
200	GORK	4 S/F	1104.1	1106.0	5.0		40.0D			
204	IZMI	41 F	1105.0	1106.0	2.3		250.0			
113	POTS	4 S/F	1105.3E	1106.2	2.2D		1400.0			
127	TORN	4 S/F	1105.3	1106.4	1.7		3500.0D	1700.0		
40	POTS	4 S/F	1105.3E	1105.7	4.7D		20000.0D			

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

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MARCH 1990

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
						Peak (10 ⁻²² W/m ² Hz)	Mean (2 Hz)			
01	33 UPIC	46 C	1105.4	1105.5	2.6					
	536 ONDR	8 S	1105.4	1105.6	1.4	45.0				
	2950 GORK	1 S	1105.7	1106.0	0.6	3.0				
	650 GORK	2 S/F	1107.2	1107.6	0.6	3.0				
	5900 KISV	2 S/F	1133.5	1134.5	6.0	6.0				
	234 POTS	4 S/F	1138.1	1138.4	1.3	100.0				
	33 UPIC	46 C	1140.5	1140.9	1.3					
	1470 POTS	8 S	1231.5	1231.6	0.5	9.0				
	33 UPIC	46 C	1307.8	1311.3U	6.7					
	536 ONDR	41 F	1308.5	1311.3	4.0	17.0				
	113 POTS	4 S/F	1309.8	1311.5	4.6	875.0				
	30 POTS	4 S/F	1309.9	1311.0U	4.6	4000.00				
	245 SGMR	8 S	1310.0E	1311.0	2.00	160.0			QL=2 ST=2 TYP=3	
	234 POTS	4 S/F	1310.0	1311.6	3.9	200.0				
	127 TORN	4 S/F	1310.0	1311.9	3.0	3400.0	230.0			
	245 SVTO	8 S	1311.0E	1311.0	1.00	120.0			QL=4 ST=2 TYP=3	
	1470 POTS	1 S	1311.0U	1312.0U	2.0U	4.0				
	3000 POTS	4 S/F	1311.0U	1312.0U	2.0U	26.0				
	9500 POTS	1 S	1311.0	1311.7	2.0	3.0				
	2800 OTTA	22 GRF	1417.0	1417.8	5.5	7.1	1.0			
	536 ONDR	42 SER	1417.0	1417.4	1.0	45.0				
	9500 POTS	1 S	1417.0	1417.5	1.2	8.0				
	3000 POTS	3 S	1417.2	1417.5	2.8	9.0				
	1470 POTS	1 S	1417.3	1417.7	1.7	4.0				
	2800 OTTA	28 PRE	1444.5	1449.2	4.7	3.1	1.0			
	600 HUMN	1 S	1449.0	1450.0	1.5	9.0	4.0			
	8400 BERN	3 S	1449.0	1449.8	30.0	13.0				
	5200 BERN	3 S	1449.0	1449.8	30.0	15.0				
	3200 BERN	3 S	1449.0	1449.8	30.0	18.0				
	2800 OTTA	4 S/F	1449.2	1449.8	1.6	47.7	14.0			
	2800 OTTA	29 PBI	1450.6	1450.6	32.0	6.6	3.0			
	2800 OTTA	3 S	1501.6	1502.4	2.0	53.0	16.0			
	33 UPIC	46 C	1501.9	1503.9	2.3					
	245 SVTO	4 S/F	1502.0E	1502.0	4.00	280.0			QL=4 ST=2 TYP=3	
	8800 SVTO	8 S	1502.0E	1502.0	1.00	91.0			QL=4 ST=2 TYP=3	
	2695 SVTO	8 S	1502.0E	1502.0	1.00	43.0			QL=4 ST=2 TYP=3	
	15400 SVTO	8 S	1502.0E	1502.0	1.00	45.0			QL=4 ST=2 TYP=3	
	4995 SVTO	8 S	1502.0E	1502.0	1.00	100.0			QL=4 ST=2 TYP=3	
	245 SGMR	8 S	1505.0E	1505.0	1.00	64.0			QL=4 ST=2 TYP=3	
	245 SGMR	8 S	1608.0E	1608.0	U	61.0			QL=2 ST=2 TYP=3	
	245 SVTO	8 S	1608.0E	1608.0	U	93.0			QL=4 ST=2 TYP=3	
	245 SGMR	8 S	1800.0E	1800.0	U	57.0			QL=4 ST=2 TYP=3	
	2800 OTTA	3 S	1937.1	1937.3	3.0	9.3	2.0			
	2800 OTTA	3 S	2022.8	2022.9	2.8	15.9	3.0			
	2800 OTTA	3 S	2041.3	2041.7	1.6	19.4	4.0			
	245 SGMR	8 S	2043.0E	2043.0	U	52.0			QL=2 ST=2 TYP=3	
	8800 SGMR	49 GB	2127.0E	2129.0	2.00	1000.0			QL=2 ST=3 TYP=6	
	8800 SGMR	49 GB	2128.0E	2129.0	1.00	850.0			QL=2 ST=2 TYP=6	
	02	100 GORK	44 NS	0428.0E		500.00				
		127 TORN	44 NS	0630.0E		330.00		13.0		V=1
204 IZMI		43 NS	0700.0		300.0		15.0			
260 ONDR		44 NS	0800.0E	0934.1	440.00	217.0				
200 HIRA		44 NS	2107.0E	2343.0	680.00	11.0	3.0		WR	
500 HIRA		46 C	0053.5	0106.5	22.0	24.0	6.0		WL	
245 LEAR		8 S	0208.0E	0208.0	U	58.0			QL=4 ST=2 TYP=3	
950 GORK		21 GRF	0457.0E	0501.0	132.50	13.0				
5900 KISV		22 GRF	0503.5	0517.1	27.0	7.0				
950 GORK		2 S/F	0504.3	0505.2	1.2	11.0				
650 GORK		4 S/F	0504.3	0504.9	1.1	20.0				
9300 KISV		1 S	0522.3	0522.6	0.7	16.0				
5900 KISV		20 GRF	0539.5	0544.3	12.6	5.0				
245 LEAR		4 S/F	0652.0E	0654.0	6.00	170.0			QL=4 ST=2 TYP=3	
200 GORK		41 F	0652.5	0654.5	13.8	35.00				
200 GORK		41 F	0652.5	0702.9		35.00				
650 GORK		1 S	0653.4	0654.8	4.1	3.0				
100 GORK		4 S/F	0654.3	0654.9	1.2	350.0				
204 IZMI		22 GRF	0700.3	0703.0	4.5	36.0				
9100 GORK		23 GRF	0706.7	0836.0	286.7	21.0				

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

MARCH 1990

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak	Mean		
						(10 -22 W/m 2 Hz)			
02	2950 GORK	22 GRF	0751.9	0758.0	23.1	4.0			
	9300 KISV	2 S/F	0757.5	0758.0	3.8	4.0			
	5900 KISV	23 GRF	0814.2	0832.1	79.3	19.0			
	5900 KISV	45 C	0814.3	0821.4		7.0			
	5900 KISV	45 C	0814.3	0820.5	8.0	9.0			
	2950 GORK	2 S/F	0818.7	0834.3	41.9	9.0			
	9300 KISV	23 GRF	0819.8	0831.5	73.3	10.0			
	3013 IZMI	40 F	0820.0	0825.4	14.0	12.0			
	204 IZMI	41 F	0823.3	0825.4	2.5	200.0			
	650 GORK	2 S/F	0824.8	0825.3	3.1	8.0			
	950 GORK	1 S	0824.8	0825.5	3.1	1.0			
	9300 KISV	4 S/F	0824.8	0825.5	3.7	221.0			
	5900 KISV	4 S/F	0824.8	0825.6	3.8	151.0			
	4995 LEAR	8 S	0825.0E	0825.0	2.00	100.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0825.0E	0825.0	U	150.0			QL=4 ST=2 TYP=3
	8800 LEAR	8 S	0825.0E	0825.0	1.00	160.0			QL=4 ST=2 TYP=3
	410 LEAR	49 GB	0825.0E	0825.0	U	1000.0			QL=4 ST=2 TYP=6
	4995 SVTO	8 S	0825.0E	0825.0	1.00	98.0			QL=4 ST=2 TYP=3
	410 SVTO	49 GB	0825.0E	0825.0	1.00	1300.0			QL=4 ST=2 TYP=6
	245 SVTO	8 S	0825.0E	0825.0	1.00	160.0			QL=4 ST=2 TYP=3
	8800 SVTO	8 S	0825.0E	0825.0	1.00	160.0			QL=4 ST=2 TYP=3
	15400 SVTO	8 S	0825.0E	0825.0	1.00	49.0			QL=4 ST=2 TYP=3
	430 KRAK	8 S	0825.0	0825.3	0.6	420.00			
	9500 POTS	3 S	0825.0	0825.4	4.0	136.0			
	9100 GORK	4 S/F	0825.0	0825.5	2.7	215.0			
	3000 POTS	3 S	0825.0	0825.5	3.0	11.0			
	3200 BERN	4 S/F	0825.0	0825.5	20.0	12.0			
	8400 BERN	4 S/F	0825.0	0825.5	20.0	201.0			
	11800 BERN	4 S/F	0825.0	0825.5	20.0	117.0			
	5200 BERN	4 S/F	0825.0	0825.5	20.0	98.0			
	234 POTS	4 S/F	0825.1	0825.6	1.1	100.00			
	15000 KISV	2 S/F	0825.2	0825.5	2.8	48.0			
	2950 GORK	1 S	0825.2	0825.6	2.1	12.0			
	600 HUMN	1 S	0825.3	0825.4	0.5	18.0	8.0		
	2950 GORK	45 C	0830.3	0832.1		8.0			
	2950 GORK	45 C	0830.3	0831.1	2.8	5.0			
	5900 KISV	20 GRF	0854.7	0858.9	9.8	5.0			
	113 POTS	4 S/F	0930.4	0930.6	3.4	770.0			
	200 GORK	4 S/F	0930.5	0931.8	3.8	30.00			
	950 GORK	45 C	0930.7	0931.0	3.3	12.0			
	100 GORK	4 S/F	0930.7	0931.2	2.2	2240.0			
	950 GORK	45 C	0930.7	0931.7		4.0			
	950 GORK	45 C	0930.7	0933.9		1.0			
	127 TORN	4 S/F	0930.8	0931.6	2.0	2500.0	1200.0		
	650 GORK	41 F	0930.9	0934.0		12.0			
	650 GORK	41 F	0930.9	0931.7	3.2	7.0			
	33 UPIC	46 C	0931.0	0931.3	2.0				
245 SVTO	8 S	0934.0E	0934.0	U	200.0			QL=4 ST=2 TYP=3	
204 IZMI	5 S	0934.0	0934.1	0.2	350.0	170.0			
600 HUMN	1 S	1009.0	1009.3	0.6	13.0	5.0			
5900 KISV	4 S/F	1131.8	1133.1	3.8	21.0				
9500 POTS	1 S	1132.0	1133.0	2.0	7.0				
3000 POTS	1 S	1132.0	1133.0	1.5	5.0				
9300 KISV	2 S/F	1132.1	1133.1	3.2	16.0				
2950 GORK	1 S	1132.1	1133.2	4.2	4.0				
3013 IZMI	2 S/F	1132.2	1133.1	2.0	5.0	3.0			
9100 GORK	3 S	1132.4	1133.1	1.4	12.0				
5900 KISV	2 S/F	1145.5	1148.1	3.1	13.0				
9100 GORK	1 S	1146.4	1147.6	2.3	4.0				
9300 KISV	2 S/F	1146.9	1147.7	2.5	4.0				
245 SVTO	8 S	1438.0E	1438.0	U	88.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	2035.0E	2035.0	1.00	120.0			QL=2 ST=2 TYP=3	
03	200 GORK	43 NS	0451.0		320.00				
	204 IZMI	43 NS	0700.0		300.0	15.0			
	260 ONDR	44 NS	0750.0E	1000.0	460.00	186.0			
	127 TORN	43 NS	0913.0		223.0		6.0	V=0	
	100 HIRA	42 SER	0305.3	0307.1	5.0	2000.0		0	
245 LEAR	8 S	0306.0E	0307.0	1.00	320.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
03	500	HIRA	8 S	0306.8	0307.0	0.5	87.0			0
	410	LEAR	8 S	0307.0E	0307.0	U	91.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0539.1	0540.0	2.9	4.0			
	5900	KISV	2 S/F	0558.6	0559.7	6.0	2.0			
	2950	GORK	21 GRF	0607.0	0613.5	13.6	5.0			
	5900	KISV	23 GRF	0608.4	0611.8	12.6	5.0			
	9100	GORK	21 GRF	0609.0	0759.1	168.0	9.0			
	2950	GORK	1 S	0609.3	0610.4	2.1	6.0			
	5900	KISV	2 S/F	0609.3	0610.4	1.7	9.0			
	9300	KISV	2 S/F	0609.5	0610.4	1.9	7.0			
	9100	GORK	1 S	0609.8	0610.3	1.0	6.0			
	2950	GORK	1 S	0734.7	0738.2	5.5	2.0			
	200	GORK	41 F	0735.0	0750.5		35.00			
	200	GORK	41 F	0735.0	0736.6	16.0	35.00			
	3013	IZMI	20 GRF	0742.2	0744.2	10.0	17.0	10.0		
	204	IZMI	3 S	0742.5	0742.6	0.2	64.0			
	3000	POTS	3 S	0747.0	0749.2	8.0	17.0			
	2950	GORK	21 GRF	0747.0	0752.4	15.8	5.0			
	5900	KISV	23 GRF	0747.5	0752.3	28.6	6.0			
	5900	KISV	2 S/F	0747.5	0749.4	4.5	18.0			
	9300	KISV	22 GRF	0747.5	0749.7	28.7	12.0			
	2950	GORK	3 S	0748.0	0749.0	4.1	14.0			
	9500	POTS	1 S	0748.5	0749.5	6.5	6.0			
	9100	GORK	3 S	0748.7	0749.6	3.1	11.0			
	100	GORK	4 S/F	0753.0	0754.4	2.5	35.0			
	100	GORK	41 F	0821.4	0845.3	40.9	140.0			
	100	GORK	41 F	0821.4	0859.8		825.0			
	100	GORK	46 C	0851.5	0852.3	2.5	1650.0			
	100	GORK	46 C	0851.5	0852.6		960.0			
	113	POTS	4 S/F	0851.8	0852.4	1.4	400.0			
	2950	GORK	1 S	0851.9	0852.3	0.8	1.0			
	40	POTS	4 S/F	0851.9	0852.7	2.2	15000.0			
	9100	GORK	20 GRF	0933.0	0954.7	69.0	11.0			
	2950	GORK	21 GRF	0933.8	1006.9	62.7	6.0			
	950	GORK	1 S	0937.7	0938.8	1.2	4.0			
	9300	KISV	20 GRF	0941.0	0951.9	29.5	7.0			
	650	GORK	1 S	0941.2	0941.4	0.3	2.0			
	950	GORK	2 S/F	0941.2	0941.4	0.3	6.0			
	5900	KISV	20 GRF	0941.3	0954.5	28.4	9.0			
	234	POTS	42 SER	0944.2	0959.8	16.8	140.0			
	204	IZMI	40 F	0945.0	0946.0	20.0	35.0			
	113	POTS	42 SER	0945.2	0959.9	15.6	270.0			
	40	POTS	42 SER	0945.6	1000.0	14.7	11000.0			
	245	LEAR	8 S	0959.0E	0959.0	1.00	130.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0959.5	0959.7	0.5	110.0			
	245	SVTO	8 S	1000.0E	1000.0	U	120.0			QL=2 ST=2 TYP=3
	536	ONDR	41 F	1001.0	1007.5	52.0	13.0			
	3013	IZMI	1 S	1024.3	1024.3	4.0	9.0	5.0		
	2950	GORK	1 S	1024.6	1025.2	1.7	7.0			
	204	IZMI	3 S	1048.5	1048.6	0.1	73.0			
5900	KISV	46 C	1053.2	1055.2		2.0				
5900	KISV	46 C	1053.2	1054.2		3.0				
5900	KISV	46 C	1053.2	1055.6	5.2	5.0				
2950	GORK	2 S/F	1053.3	1054.2	2.5	2.0				
9300	KISV	2 S/F	1211.0	1212.5	8.7	4.0				
5900	KISV	2 S/F	1211.3	1212.4	7.0	6.0				
245	SGMR	8 S	1227.0E	1228.0	1.00	71.0			QL=2 ST=2 TYP=3	
113	POTS	4 S/F	1227.2	1227.3	1.4	100.0				
234	POTS	4 S/F	1227.2	1228.6	1.6	100.0				
40	POTS	4 S/F	1227.6	1227.8	1.1	3000.0				
410	SVTO	8 S	1228.0E	1228.0	U	42.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	1228.0E	1228.0	U	65.0			QL=2 ST=2 TYP=3	
9300	KISV	2 S/F	1231.9	1233.2	3.3	4.0				
9500	POTS	29 PBI	1301.0	1304.5	49.0	18.0				
3000	POTS	4 S/F	1301.0	1304.6	7.5	23.0				
1415	SGMR	4 S/F	1302.0E	1302.0	3.00	100.0			QL=4 ST=2 TYP=3	
1470	POTS	4 S/F	1302.0	1303.7	6.5	75.0				
810	KRAK	4 S/F	1302.5	1305.4	5.0	87.0	47.0			
536	ONDR	46 C	1302.5	1306.7	16.0	96.0				

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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		
03	600	HUMN	4 S/F	1302.7	1303.9	5.9	73.0	26.0		
	4995	SGMR	8 S	1303.0E	1304.0	2.00	31.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1303.0E	1304.0	2.00	32.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1303.0E	1304.0	4.00	120.0			QL=2 ST=2 TYP=3
	430	KRAK	4 S/F	1303.5	1306.3	5.5	49.0	23.0		
	410	SGMR	8 S	1305.0E	1307.0	2.00	90.0			QL=2 ST=2 TYP=3
	430	KRAK	40 F	1312.2		3.9	6.0	4.0		
	245	SVTO	8 S	1324.0E	1324.0	U	52.0			QL=2 ST=2 TYP=3
	127	TORN	45 C	1444.0	1446.3	3.3	150.00	25.00		
	2800	OTTA	22 GRF	1626.0	1634.5	165.0	18.3	9.0		
	410	SGMR	4 S/F	1633.0E	1641.0	18.00	430.0			QL=4 ST=3 TYP=3
	600	HUMN	27 RF	1633.5	1637.0	9.0	7.0	3.0		
	245	SGMR	8 S	1926.0E	1926.0	1.00	63.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1933.0E	1933.0	1.00	220.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1933.0E	1933.0	1.00	510.0			QL=2 ST=2 TYP=3
	2800	OTTA	28 PRE	1951.0	2011.5	20.5	8.1	4.0		
	2800	OTTA	3 S	2011.5	2020.5	25.5	270.9	54.0		
	2695	SGMR	4 S/F	2013.0E	2020.0	17.00	250.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	2015.0E	2020.0	15.00	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2015.0E	2020.0	13.00	250.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2015.0E	2020.0	10.00	69.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	2019.0E	2019.0	2.00	61.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	2019.0E	2019.0	1.00	32.0			QL=2 ST=2 TYP=3
15400	SGMR	8 S	2020.0E	2020.0	U	24.0			QL=4 ST=2 TYP=3	
2800	OTTA	29 PBI	2037.0	2037.0	205.0	29.4	14.0			
200	HIRA	24 R	2105.0E	2730.0	680.00	5.0	2.0			0
04	200	GORK	44 NS	0444.0E		408.00				
	204	IZMI	43 NS	0700.0		300.0	10.0			
	260	ONDR	44 NS	0750.0E	1305.9	460.00	104.0			
	127	TORN	43 NS	0907.0		353.0		4.0		V=0
	200	HIRA	42 SER	0510.6	0520.8	33.0	54.0			0
	9100	GORK	20 GRF	0515.0	0526.8	21.0	9.0			
	9100	GORK	20 GRF	0617.1	0721.9	117.0	11.0			
	2950	GORK	22 GRF	0640.1	0643.6	17.9	4.0			
	5900	KISV	20 GRF	0645.3	0647.3	15.9	3.0			
	204	IZMI	3 S	0913.1	0913.2	0.1	15.0			
	536	ONDR	41 F	1000.0	1133.2	240.0	7.0			
	204	IZMI	41 F	1003.7	1005.4	2.6	30.0			
	9100	GORK	1 S	1107.8	1109.0	4.2	6.0			
	245	SGMR	8 S	1856.0E	1856.0	U	68.0			QL=2 ST=2 TYP=3
	05	204	IZMI	43 NS	0700.0		300.0	10.0		
127		TORN	43 NS	0926.0		186.0		2.0		V=0
9100		GORK	22 GRF	0518.0	0628.5	102.0	12.0			
5900		KISV	2 S/F	0551.7	0552.5	3.9	2.0			
5900		KISV	45 C	0601.5	0606.1	16.1	9.0			
5900		KISV	45 C	0601.5	0606.6		8.0			
9300		KISV	2 S/F	0611.4	0612.2	4.8	3.0			
15000		KISV	2 S/F	0611.7	0612.2	3.3	4.0			
9300		KISV	2 S/F	0623.3	0628.7	9.5	7.0			
15000		KISV	2 S/F	0627.7	0628.5	5.6	6.0			
2950		GORK	1 S	0627.7	0628.8	3.1	3.0			
2950		GORK	20 GRF	0705.8	0707.0	31.7	3.0			
5900		KISV	2 S/F	0705.8	0707.1	4.0	2.0			
204		IZMI	7 C	0710.4	0710.5	1.2	19.0			
9300		KISV	2 S/F	0734.1	0734.6	3.8	3.0			
5900		KISV	22 GRF	0734.2	0735.0	13.8	3.0			
260		ONDR	41 F	0740.0E	0742.9	470.00	120.0			
5900		KISV	20 GRF	0855.2	0900.2	29.6	4.0			
536		ONDR	27 RF	0900.0	0957.9	270.0	4.0			
430	KRAK	1 S	0928.2	0929.0	1.2	8.0	4.0			
5900	KISV	20 GRF	0954.2	1009.6	28.5	6.0				
430	KRAK	8 S	1003.5	1003.6	0.5	22.0				
5900	KISV	2 S/F	1123.4	1123.9	1.7	5.0				
2800	OTTA	22 GRF	1739.0	1917.0	225.0	5.2	2.0			
06	200	HIRA	44 NS	2100.0E	0120.0	690.00	7.0	3.0		0
	5900	KISV	45 C	0552.9	0555.2		3.0			

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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 (2 Hz)		
06	5900	KISV	45 C	0552.9	0554.5	3.8	3.0			
	5900	KISV	20 GRF	0724.9	0734.1	24.3	4.0			
	204	IZMI	41 F	0727.2	0743.5	30.0	88.0			
	200	GORK	41 F	0733.5	0734.0	14.6	40.00			
	200	GORK	41 F	0733.5	0747.5		40.00			
	100	GORK	41 F	0733.7	0734.0	10.6	270.0			
	100	GORK	41 F	0733.7	0743.6		545.0			
	260	ONDR	41 F	0740.0E		470.00				
	9100	GORK	20 GRF	0757.0	0803.0	27.0	9.0			
	2950	GORK	22 GRF	0757.3	0759.4	17.4	3.0			
	9300	KISV	20 GRF	0759.0	0802.6	12.5	5.0			
	33	UPIC	4 S/F	0821.0	0821.1	0.6				
	410	LEAR	4 S/F	0837.0E	0838.0	3.00	39.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0837.0E	0838.0	3.00	41.0			QL=2 ST=2 TYP=3
	204	IZMI	7 C	0837.6	0838.3	1.5	49.0	25.0		
	33	UPIC	45 C	0838.0	0838.1	2.0				
	430	KRAK	8 S	0838.2	0838.5	0.7	39.0			
	536	ONDR	27 RF	0900.0	0952.1	270.0	8.0			
	204	IZMI	8 S	0917.6	0917.7	0.1	92.0			
	2950	GORK	1 S	1053.6	1055.9	3.1	2.0			
	5900	KISV	2 S/F	1054.0	1055.9	8.8	13.0			
	9100	GORK	22 GRF	1055.0	1055.9	38.0	9.0			
	9300	KISV	2 S/F	1055.4	1055.9	4.1	8.0			
	5900	KISV	2 S/F	1120.9	1121.8	6.4	6.0			
	100	GORK	46 C	1216.3	1217.3	3.6	820.0			
	100	GORK	46 C	1216.3	1219.4		1090.0			
	113	POTS	42 SER	1216.8	1219.2	3.8	320.0			
	200	GORK	4 S/F	1217.0	1217.1	3.5	220.0			
	5900	KISV	2 S/F	1244.3	1245.0	2.2	7.0			
	245	SGMR	8 S	1301.0E	1301.0	U	110.0			QL=4 ST=3 TYP=3
	40	POTS	4 S/F	1301.0	1301.2	0.9	1300.0			
	234	POTS	4 S/F	1301.0	1301.6	0.8	100.0			
	113	POTS	4 S/F	1301.0	1301.7	1.1	140.0			
2800	OTTA	3 S	1525.0	1525.5	2.6	8.5	2.0			
2800	OTTA	22 GRF	1603.0	1700.0	180.0	3.1	1.0			
07	200	GORK	44 NS	0439.0E		298.00				
	204	IZMI	43 NS	0600.0		48.0	25.0			
	2695	PENT	4 S/F	0003.9	0004.5	3.0	25.8	5.0		
	200	HIRA	41 F	0103.3	0105.9	3.2	230.0			0
	245	PALE	4 S/F	0232.0E	0234.0	3.00	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0233.0E	0234.0	2.00	100.0			QL=2 ST=2 TYP=3
	500	HIRA	41 F	0241.2	0241.7	2.0	18.0			0
	200	HIRA	41 F	0453.0	0509.0	17.0	29.0			MR
	100	HIRA	42 SER	0521.5	0539.9	27.7	780.0			
	5900	KISV	2 S/F	0521.7	0521.9	1.6	3.0			
	200	HIRA	27 RF	0523.0	0600.0	53.0	21.0	16.0		0
	500	HIRA	27 RF	0537.0	0605.0	45.0	5.0	2.0		0
	100	GORK	41 F	0540.3	0549.0		270.0			
	100	GORK	41 F	0540.3	0540.8	10.1	950.0			
	500	HIRA	8 S	0631.0	0631.1	0.2	550.0			0
	5900	KISV	22 GRF	0726.8	0729.7	12.4	5.0			
	2950	GORK	20 GRF	0728.3	0729.8	26.0	2.0			
	200	HIRA	41 F	0731.4	0732.7	1.9	310.0			0
	204	IZMI	41 F	0733.0	0734.0	2.5	103.0			
	260	ONDR	41 F	0800.0E		450.00				
	204	IZMI	4 S/F	0815.4	0815.6	0.5	8.0			
	9300	KISV	2 S/F	0824.5	0825.0	7.2	4.0			
	2950	GORK	1 S	0826.1	0826.6	1.7	2.0			
	5900	KISV	2 S/F	0826.2	0826.7	6.1	6.0			
	5900	KISV	22 GRF	0838.2	0846.2	15.8	5.0			
	2950	GORK	20 GRF	0857.0	0902.3	39.00	6.0			
	536	ONDR	41 F	0900.0	1034.7	360.0	18.0			
204	IZMI	5 S	0901.0	0901.2	0.5	20.0				
100	GORK	46 C	0922.5	0923.2	2.0	670.0				
100	GORK	46 C	0922.5	0923.5		270.0				
113	POTS	42 SER	0922.6	0923.3	19.4	200.0				
200	GORK	46 C	0922.8	0923.1	1.7	35.00				
204	IZMI	42 SER	0922.8	0923.1	1.5	18.0				

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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 (2 Hz)		
07	200	GORK	46 C	0922.8	0923.9		14.0			
	40	POTS	42 SER	0923.1	0924.4	20.1	750.0			
	5900	KISV	2 S/F	0937.9	0939.1	2.1	6.0			
	113	POTS	4 S/F	1111.9	1112.3	1.1	750.0			
	204	IZMI	42 SER	1112.0	1120.0	14.0	98.0			
	30	POTS	4 S/F	1112.1	1112.9	1.5	1400.00			
	2800	OTTA	3 S	1523.1	1524.5	2.8	9.3	2.0		
	2800	OTTA	3 S	1944.0	1944.9	2.6	6.8	1.0		
	410	SGMR	49 GB	1944.0E	1944.0		690.0			QL=2 ST=2 TYP=6
	610	SGMR	8 S	1944.0E	1945.0	1.00	59.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1944.0E	1944.0		26.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	2012.9	2014.0	2.6	17.5	3.0		
08	204	IZMI	43 NS	0600.0		115.0	10.0			
	245	LEAR	44 NS	0647.0E	0647.0	160.00	180.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1516.0E	1518.0	139.00	71.0			QL=2 ST=2 TYP=1
	410	LEAR	8 S	0003.0E	0005.0	2.00	60.0			QL=2 ST=2 TYP=3
	500	HIRA	41 F	0003.8	0004.8	2.1	27.0			WL
	2840	PEKG	3 S	0254.0	0300.7	15.0	167.8			
	4995	LEAR	4 S/F	0258.0E	0300.0	5.00	140.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0258.0E	0259.0	6.00	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0259.0E	0300.0	5.00	31.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0259.0E	0300.0	5.00	86.0			QL=4 ST=2 TYP=3
	610	LEAR	4 S/F	0259.0E	0300.0	5.00	20.0			QL=2 ST=2 TYP=3
	1415	LEAR	4 S/F	0259.0E	0259.0	5.00	170.0			QL=4 ST=2 TYP=3
	17000	NOBE	1 S	0259.3	0259.9	1.5	19.0			25R,80,35GHz:0
	100	HIRA	42 SER	0527.7	0528.8	3.8	105.0			
	100	GORK	46 C	0527.8	0529.1	5.2	135.0			
	100	GORK	46 C	0527.8	0532.2		40.0			
	2840	PEKG	5 S	0530.0	0531.0	14.0	26.5			
	9100	GORK	22 GRF	0530.1	0531.1	8.9	11.0			
	2950	GORK	3 S	0530.3	0531.1	2.7	19.0			
	950	GORK	20 GRF	0530.3	0530.7	9.3	3.0			
	650	GORK	2 S/F	0530.3	0531.7	1.4	10.0			
	2950	GORK	30 PBI	0533.0	0533.0	11.1	7.0			
	2950	GORK	2 S/F	0536.2	0536.5	0.6	7.0			
	200	HIRA	42 SER	0542.0	0547.2	48.0	130.0			0
	2950	GORK	20 GRF	0618.4	0620.9	11.8	5.0			
	245	LEAR	8 S	0630.0E	0631.0	1.00	76.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0647.0E	0648.0	1.00	180.0			QL=2 ST=2 TYP=3
	650	GORK	20 GRF	0652.3	0658.1	28.5	4.0			
	100	HIRA	42 SER	0653.0	0653.5	2.9	435.0			
	200	HIRA	42 SER	0653.1	0653.2	3.4	190.0			0
	200	GORK	3 S	0653.6	0653.9	0.5	40.00			
	100	GORK	41 F	0653.7	0654.1	31.7	135.0			
	100	GORK	41 F	0653.7	0724.9		35.0			
	113	POTS	41 F	0653.9	0654.3	3.3	250.0			
	204	IZMI	41 F	0654.0	0655.2	3.0	200.0			
	9100	GORK	22 GRF	0710.4	0711.0	10.6	5.0			
	200	GORK	41 F	0724.0	0724.7	31.0	40.00			
	200	GORK	41 F	0724.0	0754.8		40.00			
	204	IZMI	8 S	0724.5	0724.7	0.4	104.0	90.0		
	2840	PEKG	1 S	0732.0	0734.6	8.0	13.0			
	3000	POTS	4 S/F	0733.0	0734.6	15.0	14.0			
	9500	POTS	4 S/F	0733.0	0735.9	21.0	28.0			
	9300	KISV	45 C	0733.1	0736.7		35.0			
	9300	KISV	45 C	0733.1	0735.8	15.1	35.0			
	5900	KISV	45 C	0733.2	0736.8	8.6	33.0			
	5900	KISV	45 C	0733.2	0735.9		31.0			
	1470	POTS	3 S	0733.5	0735.2	5.5	7.0			
	9100	GORK	46 C	0733.5	0734.4	5.2	21.0			
	9100	GORK	46 C	0733.5	0735.7		36.0			
	9100	GORK	46 C	0733.5	0736.8		32.0			
	2950	GORK	2 S/F	0733.6	0734.7	5.6	12.0			
	3013	IZMI	5 S	0733.9	0734.6	6.0	20.0	10.0		
950	GORK	2 S/F	0734.0	0735.4	2.5	8.0				
650	GORK	4 S/F	0734.1	0736.0	3.3	45.0				
9100	GORK	29 PBI	0738.7	0738.7	16.6	11.0				
260	ONDR	41 F	0740.0E		470.00					

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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	204	IZMI	8 S	0754.5	0754.6	0.2	120.0	100.0		
	536	ONDR	41 F	0900.0	1306.5	360.0	31.0			
	5900	KISV	2 S/F	0912.8	0913.5	3.0	5.0			
	245	SVTO	8 S	0924.0E	0925.0	1.00	94.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0927.0E	0927.0	1.00	120.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1023.0E	1024.0	1.00	72.0			QL=2 ST=2 TYP=3
	33	UPIC	42 SER	1038.0	1038.2	14.5				
	650	GORK	2 S/F	1039.0	1039.9	2.4	5.0			
	950	GORK	2 S/F	1039.0	1039.9	2.4	3.0			
	2950	GORK	1 S	1039.2	1039.9	1.2	3.0			
	9100	GORK	1 S	1039.3	1039.9	1.3	9.0			
	15000	KISV	2 S/F	1039.6	1039.8	2.0	11.0			
	2695	SVTO	4 S/F	1115.0E	1116.0	7.00	160.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1139.5	1154.0	21.0	400.0			
	234	POTS	41 F	1150.5	1154.1	8.1	200.0			
	245	SGMR	8 S	1153.0E	1154.0	1.00	150.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1154.0E	1154.0	U	130.0			QL=4 ST=2 TYP=3
	9300	KISV	2 S/F	1250.5	1252.6	5.3	6.0			
	1470	POTS	1 S	1252.0	1252.8	1.2	3.0			
	33	UPIC	42 SER	1310.5	1327.7	19.0				
	1470	POTS	4 S/F	1313.0	1316.0	9.0	16.0			
	3000	POTS	4 S/F	1313.0U	1315.8U	5.0U	16.0			
	245	SGMR	8 S	1315.0E	1315.0	1.00	78.0			QL=2 ST=2 TYP=3
	430	KRAK	2 S/F	1315.0	1316.6	2.5	33.0	14.0		
	610	SGMR	8 S	1316.0E	1316.0	U	32.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1316.0E	1316.0	U	52.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1414.0E	1414.0	2.00	76.0			QL=2 ST=2 TYP=3
	33	UPIC	45 C	1440.4	1440.6	1.7				
	2800	OTTA	4 S/F	1653.8	1658.0	10.6	35.1	7.0		
	8800	SGMR	4 S/F	1655.0E	1656.0	6.00	130.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1656.0E	1656.0	5.00	100.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1656.0E	1658.0	5.00	100.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1656.0E	1656.0	424.00	29.0			QL=2 ST=1 TYP=3
610	SGMR	8 S	1658.0E	1658.0	U	140.0			QL=2 ST=2 TYP=3	
2800	OTTA	22 GRF	1753.0	1807.0	80.0	4.2	2.0			
245	SGMR	8 S	2052.0E	2052.0	1.00	320.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	2057.0E	2058.0	1.00	130.0			QL=2 ST=2 TYP=3	
245	LEAR	4 S/F	2250.0E	2251.0	3.00	120.0			QL=4 ST=2 TYP=3	
09	200	GORK	43 NS	0534.5		355.50				
	204	IZMI	43 NS	0600.0		360.0	20.0			
	234	POTS	43 NS	0826.0	0949.0	260.0	27.0			
	127	TORN	43 NS	0948.0		312.0		4.0		V=1
	5900	KISV	2 S/F	0610.9	0611.3	1.1	2.0			
	2695	LEAR	8 S	0634.0E	0634.0	U	120.0			QL=4 ST=2 TYP=3
	3013	IZMI	1 S	0700.0	0700.5	1.0	3.0			
	15000	KISV	2 S/F	0702.0	0706.0	4.0	8.0			
	5900	KISV	20 GRF	0702.2	0706.6	15.3	5.0			
	3013	IZMI	2 S/F	0702.5	0704.0	2.0	3.0	2.0		
	2950	GORK	21 GRF	0703.7E	0704.1	61.00	9.0			
	9100	GORK	23 GRF	0703.7	0729.8	41.3	8.0			
	9100	GORK	3 S	0719.8	0720.1	0.7	10.0			
	5900	KISV	1 S	0719.8	0720.2	0.9	9.0			
	950	GORK	1 S	0719.9	0720.1	0.7	2.0			
	15000	KISV	1 S	0719.9	0720.1	0.8	16.0			
	650	GORK	8 S	0719.9	0720.2	0.8	80.0			
	9300	KISV	1 S	0719.9	0720.2	1.2	11.0			
	2950	GORK	2 S/F	0720.0	0720.2	0.7	12.0			
	260	ONDR	41 F	0830.0E	1145.7	360.00	96.0			
	2950	GORK	20 GRF	0830.1	0839.1	19.7	2.0			
	204	IZMI	5 S	0838.0	0838.5	1.0	73.0	30.0		
	536	ONDR	41 F	0900.0	1136.8	215.0	9.0			
30	POTS	4 S/F	0947.6	0948.7	3.7	600.0U				
113	POTS	4 S/F	0947.7	0948.5	3.3	800.0				
100	GORK	46 C	0947.7	0948.6	2.0	1300.0				
100	GORK	46 C	0947.7	0948.9		1100.0				
127	TORN	7 C	0948.5	0949.3	1.4	1100.0	500.0			
2800	OTTA	22 GRF	1635.0	1700.0	95.0	3.4	1.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
10	200	HIRA	27 RF	0030.0	0039.0	40.0	8.0	4.0		0
	245	LEAR	8 S	0033.0E	0033.0	U	64.0			QL=4 ST=2 TYP=3
	5900	KISV	22 GRF	0651.9	0656.5	24.0	9.0			
	2840	PEKG	1 S	0652.0	0656.6	9.0	8.5			
	2950	GORK	22 GRF	0652.7	0656.7	26.4	6.0			
	245	SVTO	8 S	0705.0E	0705.0	U	50.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	0705.0E	0705.0	U	50.0			QL=4 ST=2 TYP=3
	260	ONDR	41 F	0800.0	1148.4	450.00	204.0			
	5900	KISV	20 GRF	0900.8	0910.4	24.7	3.0			
	3000	POTS	1 S	1412.0U	1413.0U	2.0U	7.0			
	1470	POTS	3 S	1412.5	1413.0	1.5	6.0			
	200	HIRA	42 SER	2350.0	2416.5	43.0	150.0			0
11	245	LEAR	44 NS	0016.0E	0114.0	58.00	97.0			QL=4 ST=2 TYP=1
	200	HIRA	46 C	0040.6	0042.2	2.0	170.0			MR
	100	HIRA	46 C	0040.6	0041.7	2.6	980.0			WR
	410	LEAR	8 S	0430.0E	0430.0	U	16.0			QL=4 ST=3 TYP=3
	410	LEAR	8 S	0555.0E	0555.0	U	130.0			QL=4 ST=3 TYP=3
	2950	GORK	1 S	0654.4	0654.7	0.8	2.0			
	260	ONDR	41 F	0800.0E	1307.1	420.00	82.0			
	200	GORK	41 F	0807.7	0809.5	15.1	960.0			
	200	GORK	41 F	0807.7	0822.6		30.00			
	204	IZMI	41 F	0808.0	0809.4	2.2	260.0			
	100	GORK	41 F	0809.0	0812.1	14.5	630.0			
	100	GORK	41 F	0809.0	0822.6		630.0			
	204	IZMI	5 S	0822.5	0822.7	0.5	56.0	28.0		
	204	IZMI	41 F	1030.0	1030.7	1.0	10.0			
	536	ONDR	41 F	1040.0	1323.1	215.0	20.0			
	950	GORK	2 S/F	1125.8	1126.1	1.1	4.0			
	430	KRAK	42 SER	1148.5	1200.2	37.2	16.0			
	9300	KISV	2 S/F	1228.9	1229.6	1.6	7.0			
	3000	POTS	3 S	1229.0	1229.5	2.0	14.0			
	9500	POTS	1 S	1229.0	1229.7	1.0	8.0			
	5900	KISV	2 S/F	1229.1	1229.5	1.4	9.0			
	2950	GORK	1 S	1229.2	1229.6	0.8	12.0			
	9100	GORK	1 S	1229.3	1229.6	0.9	8.0			
	1470	POTS	3 S	1229.4	1229.7	1.1	10.0			
	2950	GORK	30 PBI	1230.0	1230.0	16.7	4.0			
	2950	GORK	1 S	1235.9	1236.4	1.2	2.0			
	245	SGMR	8 S	1301.0E	1301.0	U	64.0			QL=4 ST=2 TYP=3
33	UPIC	40 F	1357.2	1401.1	19.6U					
610	PALE	8 S	1958.0E	1958.0	U	180.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1958.0E	1958.0	1.00	250.0			QL=4 ST=3 TYP=3	
12	127	TORN	43 NS	0946.0		214.0		3.0		V=1
	410	LEAR	8 S	0430.0E	0430.0	U	96.0			QL=4 ST=3 TYP=3
	9100	GORK	3 S	0430.0	0430.4	0.8	20.0			
	200	GORK	4 S/F	0431.1	0431.4	1.0	35.00			
	100	GORK	4 S/F	0431.2	0431.5	0.5	1300.0			
	2950	GORK	1 S	0554.3	0556.1	3.9	2.0			
	410	LEAR	8 S	0555.0E	0555.0	U	130.0			QL=4 ST=3 TYP=3
	9100	GORK	1 S	0555.4	0556.0	1.1	7.0			
	9100	GORK	22 GRF	0735.6	0735.9	9.4	10.0			
	5900	KISV	2 S/F	0741.5	0741.9	2.8	18.0			
	9300	KISV	2 S/F	0741.6	0741.9	1.8	12.0			
	260	ONDR	41 F	0800.0	0940.3	420.0	147.0			
	9100	GORK	22 GRF	0831.6	0836.4	57.4	15.0			
	9300	KISV	22 GRF	0833.3	0836.4	20.0	15.0			
	5900	KISV	2 S/F	0834.4	0836.4	8.8	14.0			
	5900	KISV	2 S/F	0909.8	0911.3	6.3	3.0			
	245	LEAR	8 S	0938.0E	0939.0	2.00	140.0			QL=4 ST=2 TYP=3
	204	IZMI	8 S	0939.8	0940.0	0.2	350.0	300.0		
	650	GORK	1 S	0949.2	0949.3	0.4	10.0			
	950	GORK	2 S/F	0949.2	0949.4	0.5	12.0			
	5900	KISV	23 GRF	1019.2	1030.2	19.1	6.0			
	9100	GORK	23 GRF	1021.0	1027.7	159.00	10.0			
	3000	POTS	4 S/F	1025.0	1027.0	5.0	11.0			
2950	GORK	45 C	1025.1	1027.1		6.0				
2950	GORK	45 C	1025.1	1025.8	2.2	9.0				

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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			
12	9100	GORK	46 C	1025.2	1027.0		11.0				
	15000	KISV	45 C	1025.2	1027.0	5.9	8.0				
	9300	KISV	25 R	1025.2	1027.0		17.0				
	5900	KISV	45 C	1025.2	1027.0		15.0				
	9100	GORK	46 C	1025.2	1025.7	2.1	28.0				
	9300	KISV	25 R	1025.2	1025.7	3.8	32.0				
	15000	KISV	45 C	1025.2	1025.7		7.0				
	5900	KISV	45 C	1025.2	1025.8	4.5	40.0				
	9500	POTS	4 S/F	1025.3	1025.7	2.7	21.0				
	3013	IZMI	7 C	1025.4	1025.8	2.5	9.0	4.0			
	2950	GORK	29 PBI	1027.3	1027.3	17.0	3.0				
	536	ONDR	41 F	1113.0	1113.4	15.0	7.0				
	9300	KISV	1 S	1152.4	1152.7	0.5	17.0				
	950	GORK	21 GRF	1206.9	1238.5	52.10	7.0				
	650	GORK	21 GRF	1211.0	1239.1	48.00	8.0				
	536	ONDR	42 SER	1230.0	1243.1	110.0	51.0				
	15400	SGMR	4 S/F	1236.0E	1237.0	684.00	29.0			QL=2 ST=1 TYP=3	
	100	GORK	41 F	1236.9	1252.0		390.0				
	100	GORK	41 F	1236.9	1238.5	16.9	520.0				
	410	SGMR	8 S	1238.0E	1238.0	1.00	60.0			QL=2 ST=2 TYP=3	
	245	SGMR	8 S	1238.0E	1238.0	U	71.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	1238.0E	1238.0	U	58.0			QL=4 ST=2 TYP=3	
	234	POTS	4 S/F	1238.1	1238.3	1.4	100.0				
	200	GORK	3 S	1238.3	1238.4	0.4	200.0				
	113	POTS	42 SER	1238.3	1238.5	16.1	130.0				
	2950	GORK	1 S	1238.3	1238.8	3.9	2.0				
	40	POTS	42 SER	1238.4	1252.5	15.3	2500.0				
	950	GORK	2 S/F	1251.5	1252.2	1.1	4.0				
	650	GORK	1 S	1251.5	1252.5	1.2	4.0				
	2950	GORK	1 S	1252.0	1252.3	0.6	1.0				
	245	SGMR	8 S	1958.0E	1958.0	U	71.0			QL=4 ST=2 TYP=3	
	13	127	TORN	43 NS	0836.0	1037.2	472.0	1000.0	5.0		V=1
		100	GORK	43 NS	0930.0		160.0				
100		HIRA	44 NS	2050.0E	2137.0	129.00	67.0	25.0			
200		HIRA	44 NS	2050.0E	2237.0	280.00	13.0	5.0		MR	
1415		LEAR	8 S	0201.0E	0201.0	U	53.0			QL=4 ST=2 TYP=3	
245		LEAR	4 S/F	0306.0E	0308.0	3.00	74.0			QL=4 ST=2 TYP=3	
3013		IZMI	21 GRF	0649.0	0653.5	6.0	3.0	2.0			
5900		KISV	23 GRF	0649.1	0659.0	94.7	10.0				
9100		GORK	22 GRF	0651.9	0715.3	75.1	11.0				
2840		PEKG	1 S	0712.0	0714.0	3.0	7.7				
3013		IZMI	7 C	0713.8	0715.1	4.0	12.0	8.0			
5900		KISV	2 S/F	0713.8	0715.4	4.0	14.0				
2950		GORK	2 S/F	0713.9	0715.2	2.7	9.0				
9300		KISV	20 GRF	0714.0	0715.4	30.1	8.0				
2950		GORK	21 GRF	0748.5	0753.8	98.0	6.0				
260		ONDR	41 F	0800.0	0951.3	450.00	70.0				
5900		KISV	2 S/F	0951.2	0951.7	7.3	4.0				
33		UPIC	4 S/F	1011.1	1011.7	1.3					
5900		KISV	2 S/F	1034.4	1036.6	5.9	4.0				
204		IZMI	24 R	1043.0		32.0	50.0				
245		SGMR	8 S	1248.0E	1248.0	U	370.0			QL=4 ST=2 TYP=3	
2800		OTTA	3 S	2141.9	2144.1	4.6	138.0	28.0			
2695		PALE	8 S	2143.0E	2144.0	2.00	110.0			QL=4 ST=2 TYP=3	
4995		PALE	4 S/F	2143.0E	2144.0	3.00	120.0			QL=4 ST=2 TYP=3	
2695		SGMR	8 S	2143.0E	2144.0	2.00	110.0			QL=4 ST=2 TYP=3	
4995		SGMR	8 S	2143.0E	2144.0	2.00	96.0			QL=4 ST=2 TYP=3	
8800		SGMR	8 S	2144.0E	2144.0	U	48.0			QL=4 ST=2 TYP=3	
2800	OTTA	29 PBI	2146.5	2146.5	70.0	14.1	7.0				
410	PALE	8 S	2152.0E	2153.0	1.00	210.0			QL=4 ST=2 TYP=3		
245	PALE	8 S	2153.0E	2154.0	1.00	210.0			QL=4 ST=2 TYP=3		
245	SGMR	8 S	2153.0E	2153.0	1.00	210.0			QL=4 ST=2 TYP=3		
410	SGMR	8 S	2153.0E	2153.0	U	200.0			QL=4 ST=2 TYP=3		
500	HIRA	22 GRF	2235.0	2410.0	245.0	10.0	4.0		WR		
14	100	GORK	44 NS	0415.0E		524.00					
	127	TORN	43 NS	0832.0		398.0		10.0		V=1	
	245	SGMR	44 NS	1832.0E	1836.0	93.00	60.0			QL=4 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		
14	200 HIRA	44 NS	2050.0E	0720.0	710.00	198.0	60.0		SR
	100 HIRA	44 NS	2050.0E	0730.0	710.00	490.0	130.0		
	2695 LEAR	8 S	0118.0E	0119.0	1.00	56.0			QL=4 ST=3 TYP=3
	15400 LEAR	8 S	0119.0E	0119.0	U	61.0			QL=4 ST=3 TYP=3
	200 HIRA	27 RF	0300.0	0400.0	145.0	21.0	8.0		O
	500 HIRA	46 C	0331.5	0351.0	42.0	19.0	8.0		WR
	9100 GORK	20 GRF	0430.0	0506.7	81.0	10.0			
	650 GORK	2 S/F	0430.5	0432.1	2.2	15.0			
	950 GORK	2 S/F	0430.5	0431.5	2.0	20.0			
	2950 GORK	21 GRF	0445.0E	0828.9	363.00	8.0			
	5900 KISV	2 S/F	0524.2	0524.9	1.3	4.0			
	5900 KISV	22 GRF	0529.3	0530.0	10.0	3.0			
	650 GORK	2 S/F	0612.8	0613.3	0.8	20.0			
	2950 GORK	1 S	0629.5	0630.1	1.4	8.0			
	260 ONDR	41 F	0800.0		420.0				
	204 IZMI	41 F	0923.0	0924.0	7.0	107.0			
	5900 KISV	2 S/F	0927.8	0929.1	5.6	2.0			
	650 GORK	1 S	0928.6	0928.8	0.8	3.0			
	950 GORK	1 S	0928.7	0929.0	0.6	5.0			
	2950 GORK	1 S	0928.8	0929.2	0.7	3.0			
	810 KRAK	8 S	1034.5	1034.7	0.2	19.0			
	536 ONDR	42 SER	1329.0	1337.9	15.0	19.0			
	430 KRAK	2 S/F	1334.5	1335.0	1.5	42.0	8.0		
245 SGMR	8 S	1407.0E	1407.0	1.00	52.0			QL=4 ST=2 TYP=3	
2800 OTTA	40 F	1555.0	1556.0	95.0	6.5				
2800 OTTA	22 GRF	1745.0	1908.0	255.0	6.2	3.0			
245 SGMR	8 S	1815.0E	1815.0	1.00	96.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1909.0E	1910.0	1.00	310.0			QL=4 ST=2 TYP=3	
245 SGMR	4 S/F	2015.0E	2018.0	9.00	110.0			QL=4 ST=2 TYP=3	
15	100 GORK	44 NS	0427.0E		513.00				
	200 GORK	44 NS	0427.0E		513.00				
	245 LEAR	44 NS	0520.0E	0638.0	297.00	280.0			QL=2 ST=2 TYP=1
	245 SVTO	44 NS	0522.0E	0721.0	352.00	340.0			QL=4 ST=2 TYP=1
	113 POTS	44 NS	0555.0E	0621.0	468.00	250.0			
	234 POTS	44 NS	0556.0E	0617.0	469.00	275.0			
	204 IZMI	43 NS	0600.0		360.0	70.0			
	127 TORN	44 NS	0630.0E		520.00		75.0		V=2
	410 LEAR	44 NS	0834.0E	0853.0	56.00	85.0			QL=4 ST=3 TYP=1
	410 SVTO	44 NS	0835.0E	0853.0	52.00	120.0			QL=4 ST=2 TYP=1
	245 LEAR	8 S	0228.0E	0228.0	2.00	50.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0237.0E	0237.0	U	64.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0237.0E	0237.0	U	69.0			QL=2 ST=2 TYP=3
	245 LEAR	4 S/F	0241.0E	0243.0	3.00	70.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0344.0E	0344.0	1.00	54.0			QL=4 ST=2 TYP=3
	650 GORK	23 GRF	0509.7	0851.0	387.7	35.0			
	500 HIRA	24 R	0510.0	0750.0	210.00	23.0	11.0		MR
	245 LEAR	4 S/F	0514.0E	0515.0	3.00	51.0			QL=4 ST=2 TYP=3
	2950 GORK	21 GRF	0551.6	0808.6	428.40	7.0			
	2840 PEKG	1 S	0554.0	0556.4	6.0	10.4			
	650 GORK	2 S/F	0554.6	0555.7	3.2	9.0			
	950 GORK	46 C	0555.2	0557.3		7.0			
	950 GORK	46 C	0555.2	0555.6	6.2	6.0			
	2950 GORK	2 S/F	0556.0	0557.6	4.6	7.0			
	245 SVTO	8 S	0621.0E	0621.0	U	240.0			QL=4 ST=2 TYP=3
	245 SVTO	4 S/F	0636.0E	0638.0	3.00	360.0			QL=4 ST=2 TYP=3
	204 IZMI	4 S/F	0642.3	0643.0	1.0	2500.0			
	950 GORK	23 GRF	0731.8	0827.6	89.8	5.0			
	204 IZMI	41 F	0735.2	0736.0	1.3	2800.0			
	410 LEAR	8 S	0747.0E	0747.0	U	54.0			QL=4 ST=2 TYP=3
245 LEAR	8 S	0747.0E	0747.0	U	110.0			QL=2 ST=3 TYP=3	
245 SVTO	8 S	0747.0E	0747.0	U	240.0			QL=4 ST=2 TYP=3	
410 SVTO	8 S	0747.0E	0747.0	U	66.0			QL=4 ST=2 TYP=3	
430 KRAK	27 RF	0757.5E	0853.6	92.00	117.0	40.0			
260 ONDR	41 F	0800.0E		470.00					
650 GORK	46 C	0852.4	0853.5	5.2	17.0				
650 GORK	46 C	0852.4	0856.7		20.0				
950 GORK	2 S/F	0855.9	0856.4	1.4	8.0				
536 ONDR	42 SER	0926.5	0929.5	5.0	157.0				

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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		
15	950	GORK	2 S/F	0928.4	0928.6	1.2	5.0			
	650	GORK	4 S/F	0928.6	0929.0	1.1	75.0			
	204	IZMI	5 S	1005.7	1005.8	0.2	80.0	40.0		
	950	GORK	8 S	1113.7	1114.1	0.8	14.0			
	5900	KISV	2 S/F	1212.6	1214.0	4.5	6.0			
	2950	GORK	1 S	1219.3	1220.0	1.3	4.0			
	536	ONDR	42 SER	1225.3	1225.5	2.0	8.0			
	33	UPIC	45 C	1301.0	1301.1	0.7				
	245	SGMR	49 GB	1336.0E	1336.0	1.00	520.0			QL=4 ST=3 TYP=6
	245	SVTO	8 S	1336.0E	1337.0	1.00	400.0			QL=4 ST=2 TYP=3
	536	ONDR	42 SER	1336.0	1336.4	4.0	14.0			
	234	POTS	4 S/F	1336.1	1336.7	1.0	200.0			
	2800	OTTA	22 GRF	1634.0	1727.0	160.0	7.9	4.0		
	245	PALE	8 S	1950.0E	1950.0	1.00	52.0			QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	2120.2	2126.2	6.0	12.4	3.0		
16	127	TORN	43 NS	0806.0		340.0		3.0		V=0
	950	GORK	1 S	0513.1	0513.3	0.6	3.0			
	2950	GORK	21 GRF	0710.9	0825.2	310.1	5.0			
	260	ONDR	41 F	0800.0	1142.4	460.0	65.0			
	536	ONDR	41 F	0912.0	0920.5	13.0	7.0			
	430	KRAK	8 S	0920.4	0920.7	0.6	43.0			
	430	KRAK	8 S	0924.0	0924.4	0.5	25.0			
	5900	KISV	46 C	1107.7	1108.1		3.0			
	5900	KISV	46 C	1107.7	1111.2	9.5	6.0			
	5900	KISV	46 C	1107.7	1109.3		4.0			
	5900	KISV	46 C	1107.7	1109.8		5.0			
	9300	KISV	20 GRF	1108.5	1114.3	15.0	6.0			
	2950	GORK	1 S	1110.3	1111.1	1.6	2.0			
	536	ONDR	42 SER	1112.4	1150.0	38.0	49.0			
	9100	GORK	22 GRF	1204.3	1207.9	19.7	18.0			
	5900	KISV	46 C	1204.6	1210.1		7.0			
	5900	KISV	46 C	1204.6	1208.1	8.1	16.0			
	9300	KISV	46 C	1204.6	1206.4		11.0			
	9300	KISV	46 C	1204.6	1207.4		15.0			
	5900	KISV	46 C	1204.6	1206.4		11.0			
	5900	KISV	46 C	1204.6	1207.5		11.0			
	9300	KISV	46 C	1204.6	1207.8	14.1	18.0			
	2950	GORK	45 C	1206.1	1206.3	2.4	5.0			
	2950	GORK	45 C	1206.1	1207.9		6.0			
	2800	OTTA	22 GRF	1426.0	1458.0	135.0	10.0	5.0		
245	PALE	8 S	2127.0E	2128.0	1.00	100.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2127.0E	2128.0	1.00	97.0			QL=4 ST=2 TYP=3	
17	2950	GORK	2 S/F	0530.6	0530.9	1.2	2.0			
	950	GORK	1 S	0601.6	0603.9	4.8	2.0			
	204	IZMI	41 F	0603.0	0603.7	3.0	35.0			
	650	GORK	1 S	0603.3E	0604.1	3.40	3.0			
	200	HIRA	42 SER	0603.3	0603.4	2.7	45.0			0
	204	IZMI	4 S/F	0737.0	0737.4	1.0	2.0			
	260	ONDR	41 F	0800.0	1222.5	450.0	45.0			
	204	IZMI	5 S	0805.0	0805.4	1.0	17.0	8.0		
	9100	GORK	22 GRF	0853.2	0913.2	156.80	6.0			
	2950	GORK	1 S	0909.4	0910.3	1.2	9.0			
	2950	GORK	29 PBI	0910.6	0910.6	10.7	5.0			
	5900	KISV	22 GRF	0912.2	0913.2	23.4	8.0			
	9300	KISV	2 S/F	0912.7	0915.2	3.1	3.0			
	536	ONDR	42 SER	1256.4	1259.3	4.0	104.0			
	430	KRAK	8 S	1348.0	1348.1	0.2	17.0			
	2800	OTTA	3 S	1531.8	1532.3	2.3	10.4	2.0		
	2695	SVTO	8 S	1532.0E	1532.0	1.00	51.0			QL=4 ST=2 TYP=3
	3200	BERN	3 S	1532.0	1532.3	15.0	93.0			
	5200	BERN	3 S	1532.0	1532.3	15.0	31.0			
	2800	OTTA	3 S	1548.1	1548.9	2.1	16.9	3.0		
	610	SGMR	8 S	1609.0E	1610.0	1.00	64.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	1609.8	1610.1	2.0	18.2	4.0		
245	PALE	8 S	1816.0E	1816.0	U	4.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1816.0E	1816.0	1.00	320.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1823.0E	1823.0	1.00	100.0			QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
17	2800	OTTA	20 GRF	1935.0	2030.0	90.0	7.1	3.0		
	2800	OTTA	3 S	2131.5	2132.3	5.0	31.0	6.0		
	245	LEAR	8 S	2329.0E	2329.0	2.00	160.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2329.0E	2329.0	1.00	210.0			QL=4 ST=2 TYP=3
18	200	GORK	43 NS	0437.0		422.00				
	245	LEAR	44 NS	0538.0E	0601.0	146.00	74.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	0548.0E	0601.0	133.00	75.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	20.0			
	260	ONDR	43 NS	0700.0	1122.6	530.0	400.0			
	127	TORN	43 NS	0726.0		444.0		10.0		V=1
	410	LEAR	8 S	0101.0E	0101.0	U	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0243.0E	0243.0	U	50.0			QL=4 ST=2 TYP=3
	2950	GORK	21 GRF	0458.0	0849.3	401.00	14.0			
	9300	KISV	2 S/F	0549.0	0553.1	5.9	8.0			
	9100	GORK	1 S	0552.6	0553.0	1.4	9.0			
	5900	KISV	2 S/F	0552.6	0554.3	4.4	5.0			
	2950	GORK	1 S	0622.7	0623.7	3.0	4.0			
	9100	GORK	23 GRF	0649.3	1139.0U	289.70	32.0			
	9100	GORK	45 C	0754.2	0755.3		10.0			
	9100	GORK	45 C	0754.2	0754.7	2.1	10.0			
	5900	KISV	45 C	0754.4	0755.4	5.1	9.0			
	9300	KISV	45 C	0754.4	0755.4	4.0	11.0			
	5900	KISV	45 C	0754.4	0754.8		6.0			
	9300	KISV	45 C	0754.4	0754.8		10.0			
	5900	KISV	2 S/F	0845.7	0847.0	7.3	16.0			
	9300	KISV	2 S/F	0846.3	0847.0	5.5	11.0			
	9100	GORK	2 S/F	0846.3	0846.9	1.7	8.0			
	2950	GORK	1 S	0846.4	0847.0	2.9	2.0			
	3000	POTS	21 GRF	1045.0U	1119.5	120.00	30.0			
	2950	GORK	4 S/F	1045.6	1046.5	1.9	34.0			
	600	HUMN	4 S/F	1045.8	1046.5	1.0	110.0	40.0		
	650	GORK	4 S/F	1045.9	1046.8	2.8	140.0			
	410	SVTO	8 S	1046.0E	1046.0	1.00	61.0			QL=4 ST=3 TYP=3
	1470	POTS	21 GRF	1046.0	1111.3	114.0	7.0			
	3013	IZMI	5 S	1046.0	1046.5	1.5	30.0	15.0		
	9500	POTS	1 S	1046.0	1046.5	1.0	8.0			
	1470	POTS	3 S	1046.0	1046.5	2.5	7.0			
	3000	POTS	3 S	1046.0	1046.5	1.0	33.0			
	950	GORK	4 S/F	1046.0	1046.6	3.6	36.0			
	9100	GORK	1 S	1046.1	1046.6	0.7	8.0			
	810	KRAK	2 S/F	1046.2	1047.0	0.8	92.0	40.0		
	430	KRAK	8 S	1046.2	1046.5	0.8	99.0			
	536	ONDR	42 SER	1046.3	1047.0	63.0	103.0			
	950	GORK	20 GRF	1050.2	1106.0	26.2	4.0			
9500	POTS	21 GRF	1055.0	1245.0	115.0	26.0				
3013	IZMI	40 F	1057.0	1100.0	11.5	10.0	5.0			
100	GORK	41 F	1057.3	1106.1	40.7	210.0				
100	GORK	41 F	1057.3	1133.4		5200.0				
100	GORK	41 F	1057.3	1130.8		6900.0				
2950	GORK	2 S/F	1057.7	1059.4	3.6	12.0				
5900	KISV	23 GRF	1057.9	1119.6	110.7	15.0				
1470	POTS	4 S/F	1058.5	1059.4	1.5	15.0				
200	GORK	41 F	1058.8	1126.1		2400.0				
200	GORK	41 F	1058.8	1122.4	29.9	400.0				
200	GORK	41 F	1058.8	1127.8		3200.0				
3000	POTS	3 S	1059.0	1100.0	2.5	27.0				
234	POTS	4 S/F	1059.8	1126.3	28.4	750.0				
113	POTS	4 S/F	1059.8	1129.5	36.9	3200.00				
40	POTS	42 SER	1101.0	1132.6	42.7	11000.0				
9300	KISV	23 GRF	1104.7	1130.3	63.7	22.0				
650	GORK	20 GRF	1104.7	1110.7	11.7	4.0				
2950	GORK	1 S	1104.9	1105.5	2.3	10.0				
3000	POTS	3 S	1105.0	1105.5	1.5	29.0				
1470	POTS	4 S/F	1105.3	1106.0	2.2	21.0				
5900	KISV	45 C	1120.7	1124.5		62.0				
5900	KISV	45 C	1120.7	1126.8	8.2	69.0				
9300	KISV	45 C	1121.0	1124.0	8.2	49.0				
245	SVTO	49 GB	1121.0E	1122.0	2.00	1300.0			QL=4 ST=2 TYP=6	

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		
18	4995	SVTO	20 GRF	1121.0E	1127.0	7.00	89.0			QL=4 ST=2 TYP=2
	2950	GORK	46 C	1121.0	1124.5	7.9	40.0			
	2950	GORK	46 C	1121.0	1126.8		50.0			
	3013	IZMI	7 C	1121.0	1126.8	8.0	30.0	15.0		
	9300	KISV	45 C	1121.0	1126.8		43.0			
	3200	BERN	46 C	1121.0	1126.8	80.0	45.0			
	11800	BERN	46 C	1121.0	1126.8	80.0	43.0			
	8400	BERN	46 C	1121.0	1126.8	80.0	44.0			
	5200	BERN	46 C	1121.0	1126.8	80.0	63.0			
	650	GORK	46 C	1121.3	1123.3	6.4	90.0			
	950	GORK	46 C	1121.3	1123.3	6.4	30.0			
	950	GORK	46 C	1121.3	1124.6		18.0			
	650	GORK	46 C	1121.3	1124.8		90.0			
	9100	GORK	46 C	1121.5	1124.0	7.2	42.0			
	1470	POTS	4 S/F	1121.5	1123.4	7.5	31.0			
	3000	POTS	4 S/F	1121.5	1126.7	7.5	72.0			
	9100	GORK	46 C	1121.5	1126.8		39.0			
	9500	POTS	4 S/F	1121.5	1126.8	7.5	54.0			
	204	IZMI	46 C	1122.0	1128.0	7.0	7000.0			
	245	SGMR	49 GB	1122.0E	1122.0	1.00	810.0			QL=4 ST=2 TYP=6
	2695	SVTO	4 S/F	1122.0E	1127.0	6.00	61.0			QL=4 ST=2 TYP=5
	410	SVTO	8 S	1122.0E	1123.0	2.00	130.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1122.0E	1124.0	10.00	58.0			QL=4 ST=2 TYP=3
	15000	KISV	45 C	1122.1	1124.1		20.0			
	15000	KISV	45 C	1122.1	1126.8	12.4	24.0			
	430	KRAK	2 S/F	1122.4	1123.4	1.9	102.0	20.0		
	810	KRAK	41 F	1122.5	1123.3	3.6	39.0	12.0		
	600	HUMN	4 S/F	1122.9	1125.0	6.0	34.0	9.0		
	245	SGMR	8 S	1125.0E	1125.0	1.00	130.0			QL=4 ST=2 TYP=3
	650	GORK	29 PBI	1127.7	1127.7	11.30	6.0			
	950	GORK	29 PBI	1127.7	1127.7	11.30	3.0			
	127	TORN	47 GB	1128.3	1133.7	6.0	1300.0	320.0		
	610	SGMR	8 S	1146.0E	1146.0	1.00	140.0			QL=4 ST=2 TYP=3
	600	HUMN	4 S/F	1146.0	1146.2	0.4	150.0	60.0		
	536	ONDR	41 F	1224.5	1242.2	25.0	15.0			
	430	KRAK	42 SER	1323.5	1329.3	25.5	76.0			
	2800	OTTA	22 GRF	1330.0	1400.0	190.0	23.3	9.0		
	3000	POTS	3 S	1357.5	1359.0	4.5	15.0			
	9500	POTS	29 PBI	1358.0	1359.7	27.0	13.0			
	410	PALE	8 S	1841.0E	1841.0	U	230.0			QL=2 ST=3 TYP=3
410	SGMR	8 S	1841.0E	1841.0	U	160.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	2018.0E	2018.0	1.00	380.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2018.0E	2018.0	1.00	330.0			QL=4 ST=2 TYP=3	
200	HIRA	24 R	2043.0E	2440.0	320.00	8.0	4.0		WR	
19	204	IZMI	43 NS	0600.0		360.0	15.0			
	200	GORK	43 NS	0633.0		387.00				
	260	ONDR	43 NS	0720.0	1212.0	490.0	225.0			
	127	TORN	43 NS	0756.0		400.0		4.0		V=0
	234	POTS	43 NS	1034.0	1155.0	176.0	28.0			
	2840	PEKG	5 S	0331.0	0334.5	5.0	115.9			
	2695	PALE	8 S	0334.0E	0334.0	1.00	71.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0334.0E	0334.0	1.00	70.0			QL=4 ST=2 TYP=3
	2840	PEKG	30 PBI	0336.0		57.0	26.5			
	2840	PEKG	45 C	0351.0	0355.7	12.0	35.3			
	15400	LEAR	49 GB	0400.0E	0444.0	112.00	1000.0			QL=4 ST=2 TYP=7
	2840	PEKG	47 GB	0433.0	0453.7	41.0	1451.9			
	9100	GORK	23 GRF	0433.0E	0537.8	159.00	120.0			
	1415	LEAR	49 GB	0435.0E	0459.0	88.00	710.0			QL=4 ST=2 TYP=7
	650	GORK	23 GRF	0435.5	0515.6	84.0	34.0			
	2695	LEAR	49 GB	0436.0E	0453.0	80.00	1400.0			QL=4 ST=2 TYP=7
	950	GORK	23 GRF	0436.3E	0517.0	87.70	20.0			
	500	HIRA	48 C	0437.0	0446.0		365.0			ML
	500	HIRA	48 C	0437.0	0453.0		555.0			ML
	500	HIRA	48 C	0437.0	0441.0	80.0	855.0	102.0		O
4995	LEAR	49 GB	0437.0E	0444.0	85.00	2100.0			QL=4 ST=2 TYP=7	
500	HIRA	48 C	0437.0	0539.5		106.0			WR	
17000	NOBE	29 PBI	0437.7	0509.0	69.0	108.0			O	
35000	NOBE	29 PBI	0437.7	0509.0	69.0	126.0			O	

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

MARCH 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
19	17000	NOBE	45 C	0437.7	0444.7	31.0	670.0			15R
	35000	NOBE	7 C	0437.7	0444.7	31.0	294.0			6R,80GHZ:NO OBS
	610	LEAR	4 S/F	0438.0E	0446.0	72.00	450.0			QL=4 ST=2 TYP=5
	650	GORK	46 C	0438.7	0446.3	31.7	400.0			
	650	GORK	46 C	0438.7	0454.6		235.0			
	650	GORK	46 C	0438.7	0452.9		250.0			
	2950	GORK	47 GB	0439.0E	0446.0	63.00	1070.0			
	410	LEAR	49 GB	0439.0E	0453.0	70.00	930.0			QL=4 ST=2 TYP=7
	8800	LEAR	49 GB	0439.0E	0444.0	71.00	1900.0			QL=4 ST=2 TYP=7
	2950	GORK	47 GB	0439.0E	0453.6		1340.0			
	950	GORK	46 C	0439.8	0453.0		102.0			
	950	GORK	46 C	0439.8	0445.7	31.6	116.0			
	950	GORK	46 C	0439.8	0459.8		110.0			
	9100	GORK	47 GB	0440.1	0444.6	37.9	1880.0			
	200	HIRA	48 C	0440.3	0541.3		120.0			MR
	200	HIRA	48 C	0440.3	0450.3	74.6	690.0	110.0		0
	200	GORK	46 C	0442.0	0500.8		410.0			
	200	GORK	46 C	0442.0	0450.8	20.7	430.0			
	100	HIRA	48 C	0442.4	0445.9	60.7	2400.0	146.0		MR
	100	GORK	46 C	0442.7	0457.1		380.0			
	100	GORK	46 C	0442.7	0448.2		4060.0			
	100	GORK	46 C	0442.7	0446.7	18.7	9800.0			
	245	LEAR	49 GB	0443.0E	0449.0	31.00	2700.0			QL=4 ST=2 TYP=6
	8800	SVTO	4 S/F	0514.0	0516.0	4.00	61.0			QL=2 ST=2 TYP=3
	2695	SVTO	4 S/F	0514.0	0533.0	32.00	330.0			QL=2 ST=2 TYP=5
	4995	SVTO	4 S/F	0514.0	0514.00	9.00	88.0			QL=2 ST=2 TYP=3
	2840	PEKG	45 C	0515.0	0532.7	46.0	429.5			
	1415	SVTO	8 S	0516.0E	0517.0	2.00	70.0			QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	0523.0E	0524.0	8.00	50.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0525.0E	0526.0	1.00	71.0			QL=2 ST=2 TYP=3
	410	SVTO	20 GRF	0525.0E	0540.0	22.00	140.0			QL=2 ST=2 TYP=2
	650	GORK	46 C	0525.4	0535.1	22.0	70.0			
	650	GORK	46 C	0525.4	0539.5		95.0			
	950	GORK	46 C	0527.2	0537.5		85.0			
	950	GORK	46 C	0527.2	0533.6	20.8	77.0			
	5900	KISV	45 C	0528.3	0534.2		107.0			
	5900	KISV	45 C	0528.3	0537.6	23.4	125.0			
	9300	KISV	22 GRF	0529.3	0537.7	22.7	66.0			
	2950	GORK	29 PBI	0542.0	0542.0	342.0	100.0			
	200	HIRA	42 SER	0629.7	0709.6	56.0	32.0			WL
	950	GORK	22 GRF	0630.2	0639.2	19.2	8.0			
	650	GORK	22 GRF	0636.5	0639.5	8.5	5.0			
	200	HIRA	46 C	0740.3	0753.8	37.0	26.0			WL
	204	IZMI	40 F	0747.0	0759.0	20.0	10.0			
	9100	GORK	22 GRF	0854.0	1234.3	246.00	16.0			
	5900	KISV	2 S/F	0946.4	0947.4	2.9	6.0			
	536	ONDR	42 SER	1158.3	1246.6	55.0	21.0			
	234	POTS	4 S/F	1210.6	1211.4	1.9	500.0			
	5900	KISV	23 GRF	1226.8	1230.5	13.4	5.0			
	9300	KISV	23 GRF	1228.6	1236.8	17.4	6.0			
950	GORK	2 S/F	1233.0	1234.3	2.5	3.0				
2950	GORK	2 S/F	1233.4	1234.2	1.9	16.0				
5900	KISV	4 S/F	1233.5	1234.3	2.0	20.0				
650	GORK	1 S	1233.5	1234.4	1.9	3.0				
9300	KISV	2 S/F	1234.1	1234.3	2.0	12.0				
9500	POTS	20 GRF	1305.0	1316.1	25.0	11.0				
2800	OTTA	4 S/F	1314.1	1316.1	6.7	23.8	5.0			
3000	POTS	3 S	1315.0	1316.0	9.0	22.0				
1470	POTS	1 S	1315.0	1316.2	2.0	5.0				
33	UPIC	46 C	1340.5	1348.7	8.9					
2800	OTTA	4 S/F	1348.8	1350.4	5.2	26.6	5.0			
4995	SGMR	4 S/F	1349.0E	1350.0	3.00	50.0			QL=4 ST=2 TYP=3	
4995	SVTO	8 S	1349.0E	1350.0	2.00	51.0			QL=4 ST=2 TYP=3	
3000	POTS	4 S/F	1349.0	1350.2	6.0	22.0				
9500	POTS	3 S	1349.0	1350.3	5.0	30.0				
11800	BERN	4 S/F	1349.0	1350.3	40.0	38.0				
8400	BERN	4 S/F	1349.0	1350.3	40.0	47.0				
3200	BERN	4 S/F	1349.0	1350.3	40.0	20.0				
5200	BERN	4 S/F	1349.0	1350.3	40.0	36.0				

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Outstanding Occurrences

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
19	410	SGMR	8 S	1350.0E	1351.0	2.00	81.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1350.0E	1351.0	1.00	62.0			QL=4 ST=2 TYP=3
	1470	POTS	3 S	1350.0	1350.5	3.5	14.0			
	33	UPIC	31 ABS	1350.3	1354.2	10.2U				
	9500	POTS	4 S/F	1413.0	1413.6	1.0	14.0			
	245	SGMR	8 S	1430.0E	1430.0	1.00	58.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	1713.0E	1714.0	1.00	66.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1713.0E	1713.0	1.00	100.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1713.0E	1713.0	1.00	98.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1713.0E	1713.0	1.00	96.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	1713.0E	1713.0	1.00	93.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1713.0E	1713.0	1.00	130.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1713.0E	1714.0	1.00	96.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1713.0E	1713.0	1.00	110.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1713.0E	1713.0	1.00	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2007.0E	2008.0	1.00	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2008.0E	2008.0	U	70.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2048.0E	2048.0	U	900.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	2100.0E	2100.0	U	65.0			QL=4 ST=2 TYP=3
	20	127	TORN	43 NS	0712.0		420.0		3.0	
260		ONDR	43 NS	1410.0		60.0				
536		ONDR	43 NS	1442.8		8.0				
5900		KISV	20 GRF	0548.4	0553.0	11.3	7.0			
2950		GORK	21 GRF	0548.7	1011.5	432.3D	13.0			
9100		GORK	22 GRF	0551.0	0616.7	67.0	7.0			
2950		GORK	45 C	0551.6	0553.1		6.0			
2950		GORK	45 C	0551.6	0552.1	2.2	4.0			
5900		KISV	23 GRF	0608.8	0616.0	29.6	11.0			
5900		KISV	23 GRF	0608.8	0611.1		7.0			
204		IZMI	41 F	0654.0	0655.3	2.0	33.0			
260		ONDR	41 F	0700.0	1328.0	420.0	48.0			
610		LEAR	8 S	0733.0E	0733.0	U	110.0			QL=4 ST=2 TYP=3
2950		GORK	1 S	0733.2	0733.5	0.6	5.0			
650		GORK	8 S	0733.3	0733.5	0.4	30.0			
950		GORK	1 S	0733.4	0733.5	0.7	2.0			
536		ONDR	41 F	0840.0	0840.8	2.0	10.0			
5900		KISV	2 S/F	0922.6	0925.0	6.4	8.0			
9100		GORK	20 GRF	1024.0	1031.0	34.7	3.0			
9100		GORK	20 GRF	1206.0	1244.0	54.0D	4.0			
245		SGMR	8 S	1449.0E	1450.0	1.00	61.0			QL=4 ST=2 TYP=3
234		POTS	8 S	1449.5	1449.8	1.0	150.0			
245		SVTO	8 S	1450.0E	1450.0	U	61.0			QL=4 ST=2 TYP=3
245		SGMR	8 S	1511.0E	1511.0	U	220.0			QL=4 ST=2 TYP=3
2800		OTTA	4 S/F	1513.9	1519.4	7.5	53.3	11.0		
2695		SGMR	4 S/F	1517.0E	1519.0	3.00	51.0			QL=4 ST=2 TYP=3
4995		SGMR	4 S/F	1517.0E	1519.0	12.00	71.0			QL=4 ST=2 TYP=3
4995		SVTO	8 S	1518.0E	1519.0	2.00	57.0			QL=4 ST=2 TYP=3
2695		SVTO	8 S	1518.0E	1519.0	2.00	43.0			QL=4 ST=2 TYP=3
1415		SGMR	8 S	1519.0E	1519.0	U	150.0			QL=4 ST=2 TYP=3
1415		SVTO	8 S	1519.0E	1519.0	1.00	150.0			QL=4 ST=2 TYP=3
8800		SVTO	8 S	1519.0E	1519.0	U	28.0			QL=4 ST=2 TYP=3
2800	OTTA	29 PBI	1521.4	1521.4	90.0	16.2	8.0			
2800	OTTA	40 F	1652.5	1655.9	14.0	10.0	4.0			
2800	OTTA	4 S/F	2010.3	2013.6	14.0	21.7	5.0			
8800	SGMR	8 S	2024.0E	2025.0	1.00	59.0			QL=2 ST=2 TYP=3	
4995	SGMR	8 S	2024.0E	2025.0	1.00	85.0			QL=2 ST=2 TYP=3	
2800	OTTA	3 S	2024.4	2025.6	4.2	17.8	4.0			
2800	OTTA	22 GRF	2125.0	2300.0	195.0	32.9	16.0			
21	100	GORK	44 NS	0414.0E		466.0D		5.0		V=1
	127	TORN	43 NS	0800.0		370.0				
	260	ONDR	43 NS	1213.0	1429.8	200.0	363.0			
	245	SVTO	44 NS	1351.0E	1443.0	169.0D	93.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1426.0E	1445.0	177.0D	91.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0232.0E	0232.0	1.00	52.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0232.0E	0232.0	U	58.0			QL=4 ST=2 TYP=3
	204	IZMI	5 S	0639.0	0639.5	1.0	180.0	90.0		
5900	KISV	20 GRF	0739.0	0742.2	10.3	6.0				

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MARCH 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
21	9300	KISV	2 S/F	0741.4	0742.4	3.4	4.0			
	536	ONDR	41 F	0747.0	0837.5	156.0	14.0			
	5900	KISV	21 GRF	0753.4	0754.4	5.3	4.0			
	5900	KISV	20 GRF	0805.1	0816.7	21.3	8.0			
	9100	GORK	22 GRF	0809.6	0838.0	73.7	13.0			
	950	GORK	1 S	0816.5	0816.8	1.2	1.0			
	650	GORK	2 S/F	0816.6	0817.0	0.9	4.0			
	100	GORK	4 S/F	0834.3	0836.2	4.2	560.0			
	200	GORK	3 S	0834.4	0834.5	0.6	230.0			
	204	IZMI	8 S	0834.5	0834.7	0.2	61.0	50.0		
	5900	KISV	2 S/F	0854.7	0855.1	1.3	3.0			
	260	ONDR	42 SER	0914.0	0939.0	35.0	402.0			
	260	ONDR	41 F	0948.0	1036.4	150.0	85.0			
	5900	KISV	2 S/F	1051.7	1052.7	2.7	2.0			
	5900	KISV	22 GRF	1059.0	1127.5	58.0	11.0			
	2850	CRIM	20 GRF	1110.1	1112.2	80.0	8.0	3.0		
	2950	GORK	1 S	1110.8	1112.2	6.3	9.0			
	245	SGMR	8 S	1220.0E	1222.0	2.00	61.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1301.0E	1301.0	659.00	37.0			QL=2 ST=1 TYP=3
	536	ONDR	42 SER	1323.0	1336.2	20.0	122.0			
	245	SGMR	8 S	1400.0E	1400.0	U	56.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1400.0E	1400.0	U	360.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1417.0E	1417.0	2.00	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1433.0E	1433.0	1.00	280.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1439.0E	0000.0		260.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1626.0E	1626.0	U	78.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	1717.0E	1717.0	U	78.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	1857.0	1857.8	2.8	26.8	5.0		
	245	PALE	49 GB	1857.0E	1857.0	1.00	1700.0			QL=4 ST=2 TYP=6
	15400	PALE	8 S	1857.0E	1857.0	1.00	64.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	1857.0E	1857.0	1.00	84.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	1857.0E	1857.0	1.00	69.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1857.0E	1857.0	1.00	400.0			QL=2 ST=2 TYP=3
410	SGMR	49 GB	1857.0E	1857.0	1.00	550.0			QL=2 ST=2 TYP=6	
4995	SGMR	8 S	1857.0E	1857.0	1.00	78.0			QL=4 ST=2 TYP=3	
610	SGMR	8 S	1857.0E	1857.0	1.00	50.0			QL=4 ST=2 TYP=3	
8800	SGMR	8 S	1857.0E	1857.0	1.00	96.0			QL=2 ST=2 TYP=3	
15400	SGMR	8 S	1857.0E	1857.0	1.00	60.0			QL=4 ST=2 TYP=3	
245	SGMR	49 GB	1857.0E	1857.0	1.00	1500.0			QL=4 ST=2 TYP=6	
245	PALE	8 S	2204.0E	2204.0	U	410.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2204.0E	2204.0	U	250.0			QL=4 ST=2 TYP=3	
22	33	UPIC	43 NS	0838.2		441.80				
	127	TORN	43 NS	1010.0		206.0		1.0		V=1
	245	SGMR	44 NS	1811.0E	1839.0	61.00	130.0			QL=4 ST=2 TYP=1
	410	SGMR	44 NS	1812.0E	1823.0	60.00	210.0			QL=2 ST=2 TYP=1
	245	LEAR	8 S	0225.0E	0225.0	U	130.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0247.0	1029.0	465.00	92.0			QL=4 ST=2 TYP=5
	410	LEAR	49 GB	0414.0E	0415.0	2.00	1600.0			QL=4 ST=2 TYP=6
	245	LEAR	49 GB	0414.0E	0415.0	2.00	640.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0414.0E	0415.0	2.00	710.0			QL=4 ST=2 TYP=6
	200	HIRA	46 C	0414.2	0415.2	3.3	910.0			0
	100	HIRA	46 C	0414.5	0415.2	5.9	1700.0	384.0		WR
	500	HIRA	46 C	0414.8	0415.8	8.0	198.0	12.0		0
	2695	LEAR	8 S	0415.0E	0415.0	1.00	60.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0415.0E	0415.0	1.00	55.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0415.0E	0415.0	1.00	59.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0415.0E	0415.0	U	21.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0415.0E	0415.0	2.00	50.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0415.0E	0416.0	2.00	22.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0415.0E	0415.0	1.00	400.0			QL=2 ST=2 TYP=3
	17000	NOBE	1 S	0415.0	0415.7	1.5	19.0			10R, 80, 35GHz:0
	5900	KISV	20 GRF	0505.2	0510.5	10.5	7.0			
	245	LEAR	8 S	0525.0E	0525.0	U	95.0			QL=4 ST=2 TYP=3
	2950	GORK	21 GRF	0528.5	0914.1	451.50	22.0			
5900	KISV	23 GRF	0530.4	0618.5	154.1	27.0				
9300	KISV	22 GRF	0532.6	0611.8	123.2	29.0				
9100	GORK	22 GRF	0533.0	0612.0	165.0	25.0				
650	GORK	21 GRF	0533.3	0546.3	44.5	5.0				

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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		
22	950	GORK	23 GRF	0533.9	0541.3	32.1	8.0			
	200	HIRA	46 C	0536.0	0537.0	1.5	320.0			O
	245	LEAR	8 S	0536.0E	0537.0	1.00	220.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0536.0E	0536.0	2.00	18.0			QL=4 ST=2 TYP=3
	2695	LEAR	4 S/F	0536.0E	0537.0	4.00	16.0			QL=4 ST=2 TYP=3
	200	GORK	46 C	0536.3	0537.3	1.8	430.0			
	200	GORK	46 C	0536.3	0537.9		170.0			
	500	HIRA	4 S/F	0537.0	0540.0	7.0	13.0			O
	4995	LEAR	4 S/F	0537.0E	0537.0	3.00	13.0			QL=4 ST=2 TYP=3
	100	GORK	4 S/F	0537.1	0537.5	0.5	40.00			
	15000	KISV	22 GRF	0537.3	0616.3	109.2	27.0			
	610	LEAR	8 S	0538.0E	0538.0	1.00	22.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	0538.0	0538.9	2.0	33.0			
	950	GORK	4 S/F	0540.2	0540.9	1.0	10.0			
	650	GORK	46 C	0541.3	0543.4		17.0			
	650	GORK	46 C	0541.3	0541.5	5.0	16.0			
	650	GORK	46 C	0541.3	0544.7		14.0			
	950	GORK	4 S/F	0542.9	0544.8	3.6	100.0			
	1415	LEAR	8 S	0544.0E	0544.0	1.00	80.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	0544.0E	0545.0	1.00	74.0			QL=4 ST=2 TYP=3
	2950	GORK	45 C	0655.5	0702.6		8.0			
	2950	GORK	45 C	0655.5	0658.8	13.1	8.0			
	950	GORK	1 S	0712.8	0713.1	1.1	2.0			
	5900	KISV	45 C	0737.0	0737.2		5.0			
	5900	KISV	45 C	0737.0	0739.5	4.1	7.0			
	950	GORK	4 S/F	0754.3	0754.9	2.5	15.0			
	650	GORK	2 S/F	0754.7	0754.8	2.1	7.0			
	536	ONDR	42 SER	0820.0		164.0	93.0			
	5900	KISV	23 GRF	0827.9	0833.1		8.0			
	9300	KISV	23 GRF	0828.5	0838.2	108.8	10.0			
	9100	GORK	23 GRF	0830.0	1250.0	270.00	14.0			
	5900	KISV	46 C	0835.5	0838.0		10.0			
	5900	KISV	46 C	0835.5	0841.0	12.4	21.0			
	5900	KISV	46 C	0835.5	0844.8		17.0			
	2695	LEAR	8 S	0836.0E	0838.0	2.00	17.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0837.0E	0845.0	8.00	18.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0837.0E	0841.0	4.00	390.0			QL=4 ST=2 TYP=3
	113	POTS	41 F	0837.1	0838.2	9.7	800.0			
	950	GORK	45 C	0837.6	0838.3	9.9	4.0			
	950	GORK	45 C	0837.6	0841.3		7.0			
	200	GORK	46 C	0837.6	0838.3	4.3	220.0			
	200	GORK	46 C	0837.6	0841.3		3900.0			
	100	GORK	46 C	0837.6	0838.6	4.2	6620.0			
	100	GORK	46 C	0837.6	0840.9		740.0			
	2850	CRIM	42 SER	0837.7	0845.1		12.0			
	2850	CRIM	42 SER	0837.7	0838.3	9.0	29.0	10.0		
	234	POTS	41 F	0837.7	0841.3	8.4	1200.0			
	2950	GORK	45 C	0837.8	0841.0		9.0			
	2950	GORK	45 C	0837.8	0845.0		13.0			
	2950	GORK	45 C	0837.8	0838.1	8.6	18.0			
127	TORN	47 GB	0837.8	0838.8	5.4	1700.0	90.0			
30	POTS	41 F	0837.9	0838.2	5.1	600.00				
204	IZMI	45 C	0838.0	0841.0	5.0	700.0				
245	SVTO	8 S	0838.0E	0838.0	1.00	150.0			QL=4 ST=2 TYP=3	
3013	IZMI	41 F	0838.0	0838.2	9.0	12.0				
650	GORK	46 C	0838.1	0838.3	10.2	7.0				
650	GORK	46 C	0838.1	0841.5		8.0				
9300	KISV	45 C	0840.0	0845.0		11.0				
9300	KISV	45 C	0840.0	0841.0	6.8	14.0				
9500	POTS	42 SER	0840.0	0841.0	8.0	10.0				
245	SVTO	8 S	0840.0E	0841.0	2.00	440.0			QL=4 ST=2 TYP=3	
8400	BERN	4 S/F	0840.3	0841.0	70.0	213.0				
5200	BERN	4 S/F	0840.3	0841.0	70.0	31.0				
3200	BERN	4 S/F	0840.3	0841.0	70.0	15.0				
9100	GORK	1 S	0840.3	0841.1	2.0	12.0				
1470	POTS	42 SER	0840.5	0841.0	6.5	7.0				
9100	GORK	1 S	0844.3	0845.0	2.2	10.0				
5900	KISV	22 GRF	0907.7	0914.8	15.6	7.0				
9300	KISV	2 S/F	0910.8	0915.3	8.9	5.0				

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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 (2 Hz)		
22	430	KRAK	42 SER	0922.8	0923.0	1.2	230.00			
	410	LEAR	8 S	0929.0E	0930.0	1.00	120.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0939.0	0939.5	5.2	7.0			
	9300	KISV	2 S/F	1009.0	1009.5	3.0	5.0			
	5900	KISV	2 S/F	1018.7	1019.6	3.5	4.0			
	3000	POTS	4 S/F	1022.5	1024.0U	5.5	114.0			
	1470	POTS	3 S	1022.5	1024.3	15.5	109.0			
	3013	IZMI	7 C	1022.5	1023.8	5.5	56.0	35.0		
	9500	POTS	4 S/F	1022.5	1023.9	5.5	290.0			
	113	POTS	4 S/F	1022.6	1024.0U	4.0	4000.00			
	15000	KISV	4 S/F	1022.6	1024.2	7.4	498.0			
	113	POTS	4 S/F	1022.6	1024.2	3.5	2100.0			
	430	KRAK	4 S/F	1022.7	1023.6	7.5	230.00			30.0
	33	UPIC	48 C	1022.8		3.2				
	2950	GORK	4 S/F	1022.8	1023.9	5.1	115.0			
	5900	KISV	4 S/F	1022.8	1024.9	7.5	184.0			
	100	GORK	46 C	1022.9	1024.0	6.6	10500.0			
	9300	KISV	46 C	1022.9	1024.0	7.4	279.0			
	100	GORK	46 C	1022.9	1028.1		270.0			
	9300	KISV	46 C	1022.9	1026.3		25.0			
	9300	KISV	29 PBI	1022.9	1030.3	23.7	6.0			
	9300	KISV	46 C	1022.9	1026.6		25.0			
	9300	KISV	46 C	1022.9	1025.8		40.0			
	810	KRAK	3 S	1023.0	1024.0	8.5	47.0	14.0		
	8800	SVTO	4 S/F	1023.0E	1024.0	3.00	280.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1023.0E	1024.0	2.00	130.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1023.0E	1024.0	2.00	95.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1023.0E	1024.0	1.00	1200.0			QL=4 ST=2 TYP=6
	4995	SVTO	4 S/F	1023.0E	1024.0	3.00	160.0			QL=4 ST=2 TYP=3
	650	GORK	4 S/F	1023.0	1024.1	4.0	46.0			
	950	GORK	5 S	1023.0	1024.1	4.0	70.0			
	127	TORN	47 GB	1023.0	1025.1	2.3	1700.0	800.0		
	200	GORK	41 F	1023.0	1024.3	5.5	35.00			
	200	GORK	41 F	1023.0	1028.3		20.0			
	9100	GORK	4 S/F	1023.0	1023.8	4.8	500.0			
	3200	BERN	47 GB	1023.1	1023.8	15.0	253.0			
	5200	BERN	47 GB	1023.1	1023.8	15.0	379.0			
	8400	BERN	47 GB	1023.1	1023.8	15.0	3921.0			
	11800	BERN	47 GB	1023.1	1023.8	15.0	8602.0			
	19600	BERN	47 GB	1023.1	1023.8	15.0	7716.0			
	35000	BERN	47 GB	1023.1	1023.8	15.0	2656.0			
	204	IZMI	42 SER	1023.5	1024.7	7.0	70.0			
	610	SVTO	4 S/F	1024.0E	1029.0	8.00	92.0			QL=4 ST=2 TYP=5
	15400	SVTO	8 S	1024.0E	1024.0	U	400.0			QL=4 ST=2 TYP=3
	650	GORK	29 PBI	1027.0	1027.0	10.7	17.0			
950	GORK	29 PBI	1027.0	1027.0	10.7	16.0				
5900	KISV	2 S/F	1045.9	1046.4	5.1	3.0				
260	ONDR	41 F	1100.0	1238.0	390.0					
9300	KISV	2 S/F	1148.2	1149.5	3.1	8.0				
5900	KISV	2 S/F	1148.2	1149.5	7.1	15.0				
2950	GORK	1 S	1148.6	1149.8	2.4	6.0				
536	ONDR	42 SER	1154.0	1442.2	169.0	78.0				
5900	KISV	2 S/F	1221.0	1221.9	2.1	3.0				
113	POTS	42 SER	1223.0U	1237.5	22.0U	375.0				
30	POTS	42 SER	1227.4	1227.5	17.1	700.0U				
100	GORK	4 S/F	1236.3	1237.8	1.8	135.0				
245	SGMR	49 GB	1237.0E	1237.0	1.00	2100.0			QL=4 ST=2 TYP=6	
245	SVTO	49 GB	1237.0E	1237.0	1.00	2000.0			QL=4 ST=2 TYP=6	
234	POTS	42 SER	1237.2	1237.6	3.8	2500.0				
200	GORK	46 C	1237.3	1237.5	0.8	1500.0				
200	GORK	46 C	1237.3	1237.7		1100.0				
9300	KISV	1 S	1237.4	1237.6	0.7	8.0				
430	KRAK	8 S	1240.5	1240.7	0.4	230.00				
5900	KISV	2 S/F	1241.7	1242.8	2.4	5.0				
245	SGMR	8 S	1532.0E	1532.0	U	150.0			QL=4 ST=2 TYP=3	
2800	OTTA	22 GRF	1555.0	1559.0	65.0	26.3	13.0			
245	SGMR	49 GB	1706.0E	1707.0	2.00	560.0			QL=4 ST=2 TYP=6	
245	PALE	49 GB	1707.0E	1707.0	1.00	880.0			QL=4 ST=2 TYP=6	
410	PALE	8 S	1707.0E	1707.0	1.00	290.0			QL=2 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 ⁻²² W/m ² Hz)	Mean		
22	410	SGMR	4 S/F	1707.0E	1707.0	4.00	260.0			QL=2 ST=2 TYP=3
		2800	OTTA	22 GRF	1720.0	1914.0	200.0	15.8	7.0	
	245	PALE	49 GB	1746.0E	1746.0	1.00	910.0			QL=2 ST=2 TYP=6
		SGMR	49 GB	1746.0E	1746.0	1.00	770.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	1823.0E	1824.0	1.00	130.0			QL=2 ST=3 TYP=3
		SGMR	8 S	1823.0E	1824.0	1.00	130.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	1823.0E	1824.0	1.00	770.0			QL=2 ST=2 TYP=6
	245	PALE	8 S	1841.0E	1842.0	1.00	190.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2034.0E	2034.0	1.00	130.0			QL=4 ST=2 TYP=3
	200	HIRA	27 RF	2339.0	0000.0	54.0	25.0	4.0		WL
23	127	TORN	43 NS	0852.0		320.0		1.0		V=0
	260	ONDR	43 NS	1120.0	1245.5	250.0	126.0			
	500	HIRA	42 SER	0329.4	0329.5	7.0	443.0			0
	950	GORK	1 S	0521.3	0521.5	0.5	3.0			
	200	GORK	4 S/F	0542.6	0543.1	0.6	35.00			
	100	GORK	4 S/F	0542.7	0543.1	0.7	130.0			
	5900	KISV	25 R	0613.6	0620.0	14.0	23.0			
	9100	GORK	22 GRF	0615.0	0707.9	151.5	24.0			
	9300	KISV	25 R	0615.3	0620.1	8.7	17.0			
	2950	GORK	21 GRF	0616.5	0620.0	153.7	11.0			
	650	GORK	4 S/F	0631.4	0631.7	1.1	42.0			
	950	GORK	2 S/F	0631.5	0631.6	0.4	3.0			
	204	IZMI	5 S	0635.0	0635.3	1.0	25.0	15.0		
	500	HIRA	42 SER	0637.6	0639.5	3.0	106.0			0
	650	GORK	2 S/F	0649.3	0651.2	2.5	8.0			
	950	GORK	1 S	0649.5	0649.6	0.2	2.0			
	245	LEAR	8 S	0703.0E	0704.0	2.00	17.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0703.0E	0704.0	2.00	43.0			QL=2 ST=2 TYP=3
	9300	KISV	45 C	0703.4	0705.4		4.0			
	9300	KISV	45 C	0703.4	0707.9	10.7	11.0			
	2695	LEAR	8 S	0704.0E	0705.0	1.00	26.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0704.0E	0704.0	1.00	74.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0704.0E	0704.0	U	63.0			QL=2 ST=2 TYP=3
	2950	GORK	4 S/F	0704.4	0705.2	1.2	43.0			
	5900	KISV	46 C	0704.4	0705.2		6.0			
	650	GORK	41 F	0704.4	0712.5		10.0			
	5900	KISV	46 C	0704.4	0707.7		17.0			
	650	GORK	41 F	0704.4	0704.7	11.5	30.0			
	650	GORK	41 F	0704.4	0715.8		7.0			
	950	GORK	41 F	0704.4	0711.8		130.0			
	950	GORK	41 F	0704.4	0716.8		17.0			
	950	GORK	41 F	0704.4	0715.9		15.0			
	5900	KISV	46 C	0704.4	0707.9	7.6	17.0			
	950	GORK	41 F	0704.4	0704.9	12.6	23.0			
	3000	POTS	40 F	0704.5	0705.1	1.0	18.0			
	1470	POTS	4 S/F	0704.5	0704.8	2.5	68.0			
	1415	SVTO	8 S	0705.0E	0705.0	U	66.0			QL=4 ST=2 TYP=3
	3000	POTS	3 S	0706.5	0707.7	2.5	11.0			
	2850	CRIM	1 S	0706.9	0707.8	1.4	17.0	6.0		
	9500	POTS	1 S	0707.5	0708.0	2.5	6.0			
1470	POTS	2 S/F	0707.5	0707.9	1.5	5.0				
410	LEAR	8 S	0711.0E	0711.0	2.00	160.0			QL=2 ST=2 TYP=3	
2850	CRIM	1 S	0712.2	0712.4	0.6	14.0	5.0			
245	LEAR	8 S	0728.0E	0729.0	1.00	59.0			QL=2 ST=2 TYP=3	
5900	KISV	2 S/F	0733.6	0735.1	4.5	6.0				
650	GORK	1 S	0733.6	0734.5	1.5	3.0				
950	GORK	45 C	0733.8	0734.0	1.2	3.0				
950	GORK	45 C	0733.8	0734.4		2.0				
5900	KISV	2 S/F	0844.5	0845.1	2.2	3.0				
245	LEAR	8 S	0902.0E	0902.0	U	64.0			QL=2 ST=2 TYP=3	
204	IZMI	5 S	0902.2	0902.5	0.8	43.0	20.0			
410	SVTO	8 S	0910.0E	0910.0	1.00	110.0			QL=2 ST=2 TYP=3	
1470	POTS	40 F	0910.0	0910.8	2.2	17.0				
650	GORK	2 S/F	0910.2	0910.7	1.8	4.0				
950	GORK	1 S	0910.3	0910.8	1.7	3.0				
204	IZMI	41 F	1013.0	1013.5	4.0	115.0				
2850	CRIM	1 S	1038.0	1039.8	4.0	13.0	4.0			
2950	GORK	21 GRF	1038.2	1149.4	145.80	8.0				

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Day	Freq	Sta.	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean (W/m ² Hz)	Int	Remarks
23	536	ONDR	42	SER	1056.0	1059.9	55.0	114.0		
	204	IZMI	42	SER	1105.6	1113.4	9.0	111.0		
	245	SGMR	8	S	1113.0E	1113.0	U	91.0		QL=2 ST=2 TYP=3
	5900	KISV	2	S/F	1205.4	1206.1	3.0	5.0		
	430	KRAK	4	S/F	1248.5	1252.2	4.3	210.00	9.0	
	536	ONDR	42	SER	1249.7	1252.1	4.0	110.0		
	2850	CRIM	3	S	1250.4	1252.4	4.0	30.0	10.0	
	15000	KISV	2	S/F	1250.7	1254.0	7.0	12.0		
	9100	GORK	22	GRF	1251.0	1252.2	12.00	24.0		
	9500	POTS	29	PBI	1251.0	1252.2	39.0	18.0		
	5900	KISV	4	S/F	1251.5	1252.3	6.6	32.0		
	9300	KISV	2	S/F	1251.5	1252.3	7.7	20.0		
	2950	GORK	2	S/F	1251.6	1252.3	1.4	19.0		
	650	GORK	4	S/F	1251.7	1252.2	1.5	24.0		
	1470	POTS	3	S	1251.7	1252.3	2.3	19.0		
	950	GORK	2	S/F	1251.8	1252.2	1.5	10.0		
	810	KRAK	2	S/F	1251.8	1252.2	0.8	59.0	5.0	
	3000	POTS	3	S	1252.0U	1252.2U	2.0U	26.0		
	245	SGMR	8	S	1330.0E	1330.0	U	62.0		QL=4 ST=2 TYP=3
	410	PALE	49	GB	1836.0E	1837.0	1.00	600.0		QL=2 ST=3 TYP=6
	410	SGMR	8	S	1837.0E	1837.0	U	790.0		QL=4 ST=3 TYP=3
	245	PALE	8	S	1948.0E	1948.0	U	69.0		QL=4 ST=2 TYP=3
	410	PALE	49	GB	1948.0E	1948.0	U	620.0		QL=2 ST=2 TYP=6
	410	SGMR	49	GB	1948.0E	1948.0	U	1100.0		QL=2 ST=2 TYP=6
	610	PALE	8	S	1951.0E	1951.0	1.00	75.0		QL=4 ST=2 TYP=3
	610	SGMR	8	S	1951.0E	1951.0	1.00	87.0		QL=4 ST=2 TYP=3
	610	PALE	8	S	2117.0E	2117.0	1.00	130.0		QL=4 ST=2 TYP=3
	610	SGMR	8	S	2117.0E	2117.0	1.00	130.0		QL=4 ST=2 TYP=3
	410	PALE	8	S	2118.0E	2118.0	U	99.0		QL=2 ST=2 TYP=3
	410	SGMR	8	S	2118.0E	2118.0	U	140.0		QL=2 ST=2 TYP=3
500	HIRA	42	SER	2220.5	2225.3	5.5	350.0		0	
24	200	GORK	44	NS	0418.0E		437.00		5.0	
	204	IZMI	43	NS	0600.0		360.0	15.0		
	260	ONDR	44	NS	0700.0E	1017.0	520.00	390.0		
	127	TORN	43	NS	0710.0		420.0		2.0	V=0
	410	PALE	4	S/F	0253.0E	0254.0	3.00	430.0		QL=4 ST=2 TYP=3
	610	PALE	4	S/F	0253.0E	0255.0	3.00	470.0		QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0253.0E	0256.2	12.00	138.1		
	2840	PEKG	45	C	0253.0E	0254.6		109.3		
	500	HIRA	46	C	0253.4	0256.4	17.0	334.0	8.0	0
	100	HIRA	48	C	0254.0		6.5	15000.00		
	245	LEAR	49	GB	0254.0E	0254.0	3.00	2100.0		QL=4 ST=2 TYP=6
	1415	PALE	4	S/F	0254.0E	0254.0	3.00	85.0		QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	0254.0E	0254.0	1266.00	100.0		QL=4 ST=1 TYP=3
	245	PALE	49	GB	0254.0E	0254.0	1266.00	2200.0		QL=4 ST=1 TYP=6
	200	HIRA	42	SER	0254.1	0254.3	7.9	1100.0		0
	610	LEAR	8	S	0348.0E	0348.0	1.00	280.0		QL=4 ST=2 TYP=3
	610	PALE	8	S	0348.0E	0348.0	U	150.0		QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0424.0E	0424.0	7.00	45.0		QL=2 ST=3 TYP=3
	410	LEAR	49	GB	0424.0E	0424.0	7.00	1400.0		QL=2 ST=2 TYP=6
	650	GORK	2	S/F	0424.0	0424.3	1.7	5.0		
	950	GORK	2	S/F	0424.0	0424.5	1.2	4.0		
	15000	KISV	29	PBI	0447.8	0518.0	31.0	22.0		
	15000	KISV	46	C	0447.8	0502.3		23.0		
	15000	KISV	46	C	0447.8	0506.3	20.2	33.0		
	15000	KISV	46	C	0447.8	0507.9		28.0		
	9100	GORK	22	GRF	0448.0E	0506.3	58.40	56.0		
	8800	LEAR	4	S/F	0455.0E	0506.0	25.00	71.0		QL=4 ST=2 TYP=5
	2695	LEAR	4	S/F	0455.0E	0506.0	20.00	110.0		QL=4 ST=2 TYP=5
	4995	LEAR	4	S/F	0455.0E	0506.0	25.00	89.0		QL=4 ST=2 TYP=5
	5900	KISV	46	C	0455.4	0501.0		50.0		
5900	KISV	30	PBI	0455.4	0514.0	70.0	22.0			
5900	KISV	46	C	0455.4	0508.1		65.0			
5900	KISV	46	C	0455.4	0506.2	18.6	70.0			
2950	GORK	46	C	0455.6	0508.1		60.0			
2950	GORK	46	C	0455.6	0506.3		83.0			
2950	GORK	46	C	0455.6	0501.3	13.8	52.0			
9300	KISV	46	C	0456.5	0508.1		50.0			

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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		
24	9300	KISV	46 C	0456.5	0506.2	17.7	64.0			
	9300	KISV	29 PBI	0456.5	0514.2	69.8	20.0			
	9300	KISV	46 C	0456.5	0502.8		42.0			
	1415	LEAR	4 S/F	0458.0E	0506.0	14.00	57.0			QL=4 ST=2 TYP=5
	650	GORK	21 GRF	0458.4	0900.0	394.60	23.0			
	950	GORK	46 C	0500.3	0508.0		22.0			
	950	GORK	46 C	0500.3	0506.3	12.5	30.0			
	2850	CRIM	45 C	0500.4	0508.0		80.0			
	2850	CRIM	45 C	0500.4	0503.3		129.0			
	2850	CRIM	45 C	0500.4	0506.3		101.0			
	2850	CRIM	45 C	0500.4	0501.6	12.5	94.0	43.0		
	650	GORK	46 C	0500.8	0508.0		10.0			
	650	GORK	46 C	0500.8	0506.3	8.8	16.0			
	500	HIRA	46 C	0503.0	0506.3	7.5	35.0			WR
	1415	SVTO	4 S/F	0506.0E	0508.0	5.00	52.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	0506.0E	0506.0	2.00	59.0			QL=2 ST=2 TYP=3
	2950	GORK	29 PBI	0509.4	0509.4	28.0	22.0			
	650	GORK	1 S	0523.8	0524.3	0.9	4.0			
	950	GORK	4 S/F	0523.8	0524.3	0.8	33.0			
	2950	GORK	1 S	0553.6	0554.2	1.1	6.0			
	650	GORK	2 S/F	0553.7	0554.2	0.8	14.0			
	950	GORK	4 S/F	0553.7	0554.2	1.4	45.0			
	2850	CRIM	1 S	0553.8	0554.2	0.7	9.0	3.0		
	2950	GORK	21 GRF	0557.1	1026.7	335.90	10.0			
	9100	GORK	22 GRF	0600.0	0639.5	60.0	30.0			
	5900	KISV	2 S/F	0601.7	0602.0	7.8	7.0			
	950	GORK	23 GRF	0622.6	0713.3	85.4	9.0			
	500	HIRA	42 SER	0624.8	0639.0	26.0	44.0			0
	650	GORK	46 C	0625.1	0628.4	23.9	90.0			
	650	GORK	46 C	0625.1	0639.7		20.0			
	650	GORK	46 C	0625.1	0642.8		30.0			
	610	LEAR	4 S/F	0626.0E	0628.0	3.00	68.0			QL=4 ST=2 TYP=3
	950	GORK	46 C	0626.2	0628.6U		150.00			
	950	GORK	46 C	0626.2	0626.7	4.5	95.0			
	2850	CRIM	3 S	0627.3	0628.6	2.1	23.0	8.0		
	2950	GORK	2 S/F	0627.3	0628.7	2.2	16.0			
	3013	IZMI	5 S	0628.2	0628.6	3.0	9.0	5.0		
	245	LEAR	8 S	0629.0E	0629.0	U	47.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0638.0E	0639.0	2.00	44.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0638.0E	0639.0	2.00	62.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0638.0	0638.7	1.5	1300.0			0
	100	HIRA	46 C	0638.0	0638.9	2.0	930.0			
	234	POTS	4 S/F	0638.1	0639.2	2.4	1500.0			
	2850	CRIM	7 C	0638.3	0639.0	2.0	20.0	7.0		
	2850	CRIM	7 C	0638.3	0639.3		20.0			
	100	GORK	46 C	0638.4	0639.4	2.0	840.0			
	100	GORK	46 C	0638.4	0639.7		1120.0			
	113	POTS	4 S/F	0638.4	0639.7	2.6	650.0			
	204	IZMI	41 F	0638.5	0639.5	1.4	1100.0			
	200	GORK	46 C	0638.6	0639.3	1.5	680.0			
200	GORK	46 C	0638.6	0639.5		680.0				
40	POTS	4 S/F	0638.7	0639.6	2.6	2200.0				
2950	GORK	2 S/F	0638.8	0639.9	1.7	12.0				
3013	IZMI	5 S	0639.0	0640.0	1.5	8.0	4.0			
245	SVTO	8 S	0639.0E	0639.0	1.00	450.0			QL=4 ST=2 TYP=3	
950	GORK	2 S/F	0639.0	0639.7	1.4	7.0				
650	GORK	4 S/F	0645.3	0648.5	6.8	10.0				
950	GORK	46 C	0645.7	0650.0		12.0				
950	GORK	46 C	0645.7	0648.3	5.6	13.0				
950	GORK	46 C	0657.1	0659.0	7.3	10.0				
950	GORK	46 C	0657.1	0702.0		17.0				
9300	KISV	2 S/F	0658.5	0659.1	4.2	6.0				
5900	KISV	2 S/F	0658.5	0659.1	2.7	7.0				
9100	GORK	22 GRF	0706.8	0708.7	9.1	15.0				
9300	KISV	2 S/F	0706.9	0708.7	8.1	15.0				
5900	KISV	2 S/F	0707.0	0708.7	5.8	11.0				
950	GORK	46 C	0716.5	0720.4		14.0				
950	GORK	46 C	0716.5	0718.8	5.7	13.0				
410	LEAR	49 GB	0744.0E	0744.0	1.00	600.0			QL=4 ST=2 TYP=6	

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean	Int	Remarks
24	2950 GORK	1 S	0744.3	0745.0	1.3	5.0			
	410 SVTO	8 S	0745.0E	0745.0	U	360.0			QL=4 ST=2 TYP=3
	2850 CRIM	1 S	0754.1	0754.9	1.3	9.0	3.0		
	9100 GORK	2 S/F	0905.3	0906.8	4.6	10.0			
	650 GORK	4 S/F	0905.6	0907.0	2.4	85.0			
	610 LEAR	8 S	0906.0E	0906.0	2.00	85.0			QL=4 ST=2 TYP=3
	536 ONDR	42 SER	0906.0	0907.1	3.0	94.0			
	5900 KISV	45 C	0906.0	0907.3		8.0			
	1470 POTS	3 S	0906.0	0906.7	2.5	6.0			
	5900 KISV	45 C	0906.0	0906.8	3.6	13.0			
	9500 POTS	1 S	0906.0	0906.8	2.5	5.0			
	950 GORK	2 S/F	0906.3	0906.8	1.7	3.0			
	9300 KISV	2 S/F	0906.3	0906.8	3.1	9.0			
	3000 POTS	1 S	0906.3	0906.8	1.7	6.0			
	2950 GORK	1 S	0906.5	0906.8	1.4	5.0			
	5900 KISV	45 C	0921.7	0923.4	13.8	16.0			
	5900 KISV	45 C	0921.7	0923.9		15.0			
	9300 KISV	2 S/F	0922.1	0923.4	5.9	10.0			
	9100 GORK	23 GRF	0922.6	1026.8	130.40	10.0			
	950 GORK	21 GRF	1006.5	1018.7	20.5	3.0			
	9300 KISV	28 PRE	1008.0	1009.2	5.7	12.0			
	9300 KISV	29 PBI	1008.0	1019.3	20.7	8.0			
	9300 KISV	46 C	1008.0	1014.5	11.3	60.0			
	9300 KISV	46 C	1008.0	1016.7		46.0			
	9300 KISV	46 C	1008.0	1015.7		35.0			
	650 GORK	4 S/F	1008.1	1009.8	2.4	10.0			
	5900 KISV	28 PRE	1008.5	1009.2	3.5	17.0			
	950 GORK	2 S/F	1008.7	1009.0	0.4	6.0			
	9100 GORK	1 S	1008.8	1009.2	0.8	10.0			
	9500 POTS	1 S	1009.0	1009.0	1.0	8.0			
	5900 KISV	29 PBI	1012.0	1019.2	20.8	8.0			
	5900 KISV	46 C	1012.0	1014.5	7.2	66.0			
	5900 KISV	46 C	1012.0	1015.6		51.0			
	5900 KISV	46 C	1012.0	1016.6		56.0			
	3013 IZMI	7 C	1013.5	1014.4	5.0	30.0	15.0		
	2950 GORK	46 C	1013.7	1014.5	4.5	30.0			
	2950 GORK	46 C	1013.7	1016.5		27.0			
	3000 POTS	4 S/F	1013.8	1016.2		31.0			
	650 GORK	4 S/F	1013.8	1014.3	4.6	30.0			
	2850 CRIM	45 C	1013.8	1016.5		36.0			
	9100 GORK	46 C	1013.8	1014.5	5.3	50.0			
	9100 GORK	46 C	1013.8	1016.5		33.0			
3000 POTS	4 S/F	1013.8	1014.5	5.2	25.0				
2850 CRIM	45 C	1013.8	1014.7	4.5	40.0	14.0			
610 SVTO	8 S	1014.0E	1014.0	1.00	86.0			QL=2 ST=2 TYP=3	
536 ONDR	41 F	1014.0	1015.1	110.0	34.0				
950 GORK	46 C	1014.0	1016.3		8.0				
950 GORK	46 C	1014.0	1014.5	4.7	4.0				
9500 POTS	4 S/F	1014.0U	1016.5		28.0				
9500 POTS	4 S/F	1014.0U	1014.5	6.0U	38.0				
1470 POTS	4 S/F	1014.0	1016.5		15.0				
1470 POTS	4 S/F	1014.0	1014.7	5.0	15.0				
15000 KISV	46 C	1014.2	1014.5	5.1	12.0				
15000 KISV	46 C	1014.2	1015.6		8.0				
15000 KISV	46 C	1014.2	1016.7		12.0				
430 KRAK	4 S/F	1036.5	1037.5	3.5	52.0	9.0			
5900 KISV	22 GRF	1133.9	1136.3	26.1	11.0				
9300 KISV	20 GRF	1134.6	1136.7	19.4	5.0				
9300 KISV	2 S/F	1249.3	1250.1	3.2	6.0				
536 ONDR	41 F	1250.0	1250.4	160.0	122.0				
2695 PENT	3 S	2219.5	2220.5	8.2	45.2	9.0			
25	200 HIRA	43 NS	0148.0	0400.0	490.0	7.0	3.0		WR
	200 GORK	44 NS	0417.0E		433.00		5.0		
	204 IZMI	43 NS	0600.0		360.0	15.0			
	260 ONDR	44 NS	0700.0E	0852.0	530.00	371.0			
	127 TORN	43 NS	0955.0		191.0		2.0		V=1
	245 PALE	8 S	0311.0E	0311.0	U	140.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0331.0E	0331.0	U	80.0			QL=4 ST=2 TYP=3

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
25	245 PALE	8 S	0331.0E	0331.0	1.00	81.0			QL=4 ST=2 TYP=3
	9100 GORK	22 GRF	0436.0E	0457.0	64.20	10.0			
	5900 KISV	2 S/F	0523.7	0527.1	6.3	9.0			
	9300 KISV	2 S/F	0526.7	0527.1	2.3	4.0			
	9100 GORK	23 GRF	0609.0	0735.3	129.0	15.0			
	950 GORK	1 S	0621.0	0622.0	1.5	4.0			
	650 GORK	1 S	0621.0	0621.7	1.5	2.0			
	204 IZMI	3 S	0625.0	0625.1	0.2	136.0	100.0		
	2840 PEKG	5 S	0642.0	0643.4	2.0	17.7			
	3013 IZMI	7 C	0642.8	0643.5	2.0	14.0	7.0		
	9100 GORK	3 S	0642.8	0643.6	1.2	22.0			
	2850 CRIM	1 S	0642.9	0643.5	1.3	6.0	2.0		
	950 GORK	4 S/F	0643.1	0643.5	0.9	46.0			
	2950 GORK	1 S	0643.2	0643.6	0.6	13.0			
	2950 GORK	29 PBI	0643.8	0643.8	13.5	5.0			
	9300 KISV	2 S/F	0721.8	0723.4	4.6	5.0			
	9300 KISV	2 S/F	0732.7	0735.3	7.3	10.0			
	5900 KISV	2 S/F	0734.7	0735.3	4.0	3.0			
	15000 KISV	2 S/F	0734.7	0736.3	4.6	6.0			
	9300 KISV	2 S/F	0745.5	0746.1	6.5	5.0			
	3013 IZMI	41 F	0847.0	0852.0	9.0	15.0			
	9300 KISV	23 GRF	0847.1	0848.7	78.9	10.0			
	9100 GORK	22 GRF	0847.4	0932.5	165.60	30.0			
	5900 KISV	45 C	0847.6	0852.0		13.0			
	2850 CRIM	7 C	0847.6	0848.8	6.0	2.0	2.0		
	5900 KISV	45 C	0847.6	0848.8	12.4	15.0			
	2850 CRIM	7 C	0847.6	0851.9		6.0			
	2950 GORK	2 S/F	0847.6	0851.9	6.4	14.0			
	4995 LEAR	8 S	0851.0E	0851.0	1.00	20.0			QL=4 ST=2 TYP=3
	2695 LEAR	8 S	0851.0E	0851.0	1.00	22.0			QL=4 ST=2 TYP=3
	245 LEAR	49 GB	0851.0E	0851.0	1.00	780.0			QL=4 ST=2 TYP=6
	1470 POTS	3 S	0851.0	0852.0	3.0	17.0			
	650 GORK	5 S	0851.2	0852.0	4.5	13.0			
	950 GORK	5 S	0851.4	0852.1	2.6	18.0			
	3000 POTS	3 S	0851.5	0851.7	1.5	19.0			
	234 POTS	8 S	0851.6	0851.8	0.8	2400.0			
	810 KRAK	2 S/F	0851.9	0852.1	1.1	13.0	3.0		
	245 SVTO	49 GB	0852.0E	0852.0	U	820.0			QL=4 ST=2 TYP=6
	9300 KISV	4 S/F	0930.3	0932.5	4.5	24.0			
	5900 KISV	2 S/F	0932.3	0932.5	1.2	12.0			
	9500 POTS	8 S	0932.3	0932.5	0.5	11.0			
	536 ONDR	41 F	0933.8	0947.0	15.0	7.0			
	5900 KISV	2 S/F	1000.8	1002.9	4.0	4.0			
	204 IZMI	41 F	1036.0	1036.5	1.5	100.0			
	3013 IZMI	20 GRF	1105.0	1114.0	16.0	8.0	4.0		
	9300 KISV	20 GRF	1108.5	1127.1	72.0	20.0			
	9500 POTS	20 GRF	1110.0	1121.5	70.0	9.0			
	2950 GORK	20 GRF	1110.6	1114.2	22.40	10.0			
	5900 KISV	22 GRF	1110.6	1126.6	64.6	14.0			
	3000 POTS	20 GRF	1111.0	1114.0	64.0	12.0			
1470 POTS	1 S	1126.5	1127.0	1.0	3.0				
245 SGMR	8 S	1246.0E	1246.0	U	67.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1342.0E	1343.0	2.00	76.0			QL=2 ST=2 TYP=3	
245 SGMR	8 S	1421.0E	1421.0	2.00	450.0			QL=4 ST=2 TYP=3	
410 SGMR	8 S	1421.0E	1421.0	U	420.0			QL=2 ST=2 TYP=3	
245 SVTO	8 S	1421.0E	1421.0	2.00	460.0			QL=4 ST=2 TYP=3	
410 SVTO	8 S	1421.0E	1421.0	1.00	480.0			QL=4 ST=2 TYP=3	
536 ONDR	41 F	1421.0	1429.0	10.0	12.0				
410 SGMR	4 S/F	1428.0E	1429.0	3.00	95.0			QL=2 ST=2 TYP=3	
245 SGMR	8 S	1438.0E	1439.0	2.00	75.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1452.0E	1452.0	1.00	78.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1527.0E	1527.0	U	52.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1550.0E	1550.0	2.00	110.0			QL=4 ST=2 TYP=3	
245 SVTO	8 S	1550.0E	1550.0	1.00	140.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1601.0E	1602.0	2.00	53.0			QL=4 ST=2 TYP=3	
2800 OTTA	22 GRF	1614.0	1810.0	205.0	13.9	7.0			
245 SGMR	8 S	1625.0E	1625.0	1.00	51.0			QL=4 ST=2 TYP=3	
2800 OTTA	22 GRF	1947.0	1952.0	53.0	14.1	7.0			
610 PALE	8 S	2013.0E	2014.0	1.00	56.0			QL=4 ST=2 TYP=3	

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

MARCH 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m 2 Hz)			
25	245	PALE	8 S	2013.0E	2013.0	1.00	60.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	2013.0E	2013.0	1.00	3000.0			QL=4 ST=2 TYP=6
	610	SGMR	8 S	2013.0E	2014.0	1.00	68.0			QL=4 ST=2 TYP=3
	410	SGMR	49 GB	2013.0E	2014.0	1.00	6400.0			QL=2 ST=2 TYP=6
	410	SGMR	8 S	2016.0E	2017.0	2.00	200.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	2017.0E	2017.0	1.00	240.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2042.0E	2042.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2129.0E	2129.0	U	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2147.0E	2147.0	U	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2147.0E	2147.0	U	67.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	2201.0E	2201.0	1.00	560.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	2201.0E	2201.0	1.00	360.0			QL=2 ST=2 TYP=3
	500	HIRA	41 F	2201.5	2201.9	3.4	445.0			0
	245	LEAR	8 S	2303.0E	2303.0	U	54.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2303.0E	2303.0	U	58.0			QL=4 ST=2 TYP=3
26	200	HIRA	43 NS	0313.0	0512.0	340.00	8.0	3.0		WR
	200	GORK	44 NS	0344.0E		496.00		5.0		
	204	IZMI	43 NS	0600.0		360.0	20.0			
	260	ONDR	44 NS	0700.0E	1109.8	520.00	553.0			
	127	TORN	43 NS	0826.0		483.0		2.0		V=1
	200	HIRA	44 NS	2032.0E	0636.0	740.00	9.0	2.0		WL
	245	LEAR	8 S	0014.0E	0014.0	1.00	82.0			QL=4 ST=2 TYP=3
	500	HIRA	42 SER	0155.8	0159.5	15.5	344.0			0
	410	LEAR	8 S	0159.0E	0159.0	1.00	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0209.0E	0209.0	1.00	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0216.0E	0216.0	U	150.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0216.0E	0216.0	U	190.0			QL=4 ST=2 TYP=3
	4995	LEAR	49 GB	0335.0E	0338.0	14.00	550.0			QL=4 ST=2 TYP=6
	1415	LEAR	4 S/F	0336.0E	0338.0	7.00	220.0			QL=4 ST=2 TYP=3
	15400	LEAR	49 GB	0336.0E	0338.0	8.00	680.0			QL=4 ST=2 TYP=6
	8800	PALE	49 GB	0336.0E	0338.0	5.00	770.0			QL=4 ST=2 TYP=6
	4995	PALE	49 GB	0336.0E	0338.0	7.00	560.0			QL=4 ST=2 TYP=6
	2695	PALE	4 S/F	0336.0E	0338.0	8.00	370.0			QL=4 ST=2 TYP=3
	15400	PALE	49 GB	0336.0E	0338.0	4.00	620.0			QL=4 ST=2 TYP=6
	8800	LEAR	49 GB	0336.0E	0338.0	10.00	720.0			QL=4 ST=2 TYP=6
	2695	LEAR	4 S/F	0336.0E	0338.0	12.00	410.0			QL=4 ST=2 TYP=3
	17000	NOBE	7 C	0336.1	0338.4	12.0	474.0			15L
	35000	NOBE	7 C	0336.1	0338.4	12.0	300.0			10L, 80GHz:UNCER
	1415	PALE	4 S/F	0337.0E	0338.0	6.00	220.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0337.0E	0338.5	7.00	54.9			
	9100	GORK	22 GRF	0412.0	0507.3	169.5	80.0			
	9300	KISV	23 GRF	0440.5	0504.5	75.5	35.0			
	2950	GORK	21 GRF	0441.4	0513.1	132.9	18.0			
	9300	KISV	46 C	0443.6	0448.2	11.9	20.0			
	9300	KISV	46 C	0443.6	0452.5		11.0			
	9300	KISV	46 C	0443.6	0444.6		12.0			
	2840	PEKG	3 S	0504.0	0506.8	10.0	46.4			
	9300	KISV	45 C	0506.0	0507.1		31.0			
	9300	KISV	45 C	0506.0	0507.3	8.8	34.0			
	2950	GORK	4 S/F	0506.2	0507.1	4.4	29.0			
	5900	KISV	45 C	0506.3	0507.1	5.7	37.0			
	5900	KISV	45 C	0506.3	0507.4		36.0			
	2850	CRIM	1 S	0506.5	0507.0	4.5	39.0	10.0		
	15000	KISV	45 C	0506.6	0507.1	9.2	15.0			
	15000	KISV	45 C	0506.6	0507.4		15.0			
	650	GORK	4 S/F	0506.9	0507.1	0.4	110.0			
	950	GORK	1 S	0507.0	0507.0	3.4	4.0			
	2840	PEKG	5 S	0605.0	0612.6	17.0	9.6			
	234	POTS	42 SER	0607.5	0611.0	9.6	300.0			
	100	GORK	4 S/F	0609.3	0609.7	0.6	430.0			
650	GORK	46 C	0609.8	0612.4		20.0				
650	GORK	46 C	0609.8	0610.5	6.6	5.0				
245	LEAR	8 S	0610.0E	0611.0	1.00	240.0			QL=4 ST=2 TYP=3	
245	SVTO	8 S	0610.0E	0611.0	1.00	200.0			QL=4 ST=2 TYP=3	
950	GORK	46 C	0610.0	0612.4		7.0				
500	HIRA	46 C	0610.0	0612.5	6.0	23.0			0	
950	GORK	46 C	0610.0	0610.7	6.1	25.0				
200	GORK	3 S	0610.2	0610.9	1.2	680.0				

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Outstanding Occurrences

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MARCH 1990

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
26	2850 CRIM	7 C	0610.4	0611.0	3.5	10.0	3.0		
	2850 CRIM	7 C	0610.4	0612.5		9.0			
	2950 GORK	45 C	0610.4	0612.6		7.0			
	2950 GORK	45 C	0610.4	0610.9	3.1	8.0			
	204 IZMI	41 F	0610.8	0611.0	1.3	750.0			
	1415 LEAR	8 S	0612.0E	0612.0	U	59.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0612.0E	0612.0	1.00	36.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0612.0E	0612.0	U	17.0			QL=4 ST=2 TYP=3
	410 SVTO	8 S	0612.0E	0612.0	1.00	55.0			QL=4 ST=2 TYP=3
	2850 CRIM	26 FAL	0655.0	0730.0		12.0			
	9300 KISV	2 S/F	0712.0	0712.5	6.8	8.0			
	5900 KISV	2 S/F	0714.7	0716.0	3.3	5.0			
	204 IZMI	3 S	0736.0	0736.1	0.2	250.0	200.0		
	9100 GORK	22 GRF	0754.0	0824.4	81.8	12.0			
	536 ONDR	41 F	0900.0	1100.6	140.0	85.0			
	2950 GORK	1 S	0903.9	0904.7	5.7	4.0			
	5900 KISV	2 S/F	0930.0	0930.7	2.3	5.0			
	9300 KISV	2 S/F	0930.1	0930.8	2.0	5.0			
	5900 KISV	2 S/F	1001.6	1003.4	5.8	8.0			
	9100 GORK	22 GRF	1021.7	1110.7	98.30	25.0			
	200 GORK	41 F	1107.9	1118.1		40.00			
	200 GORK	41 F	1107.9	1110.7	11.4	40.00			
	9300 KISV	2 S/F	1108.5	1110.7	6.4	18.0			
	3200 BERN	4 S/F	1108.8	1109.3	30.0	18.0			
	8400 BERN	4 S/F	1108.8	1109.3	30.0	10.0			
	5200 BERN	4 S/F	1108.8	1109.3	30.0	31.0			
	5900 KISV	45 C	1108.9	1109.5		29.0			
	5900 KISV	45 C	1108.9	1110.7	6.9	30.0			
	600 HUMN	2 S/F	1109.0	1110.0	4.0	21.0	5.0		
	245 SGMR	8 S	1109.0E	1109.0	1.00	95.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	1109.0E	1110.0	1.00	240.0			QL=4 ST=2 TYP=3
	3013 IZMI	41 F	1109.0	1109.3	2.3	20.0			
	430 KRAK	42 SER	1109.0	1109.30	5.5	200.00			
	2950 GORK	45 C	1109.0	1109.4	1.9	19.0			
	204 IZMI	41 F	1109.0	1110.4	2.5	260.0			
	3000 POTS	4 S/F	1109.0	1109.4	2.3	20.0			
	2850 CRIM	7 C	1109.0	1109.5	3.2	24.0	8.0		
	9500 POTS	3 S	1109.0	1110.5	6.0	11.0			
	430 KRAK	42 SER	1109.0	1110.50		200.00			
	2850 CRIM	7 C	1109.0	1110.6		11.0			
	1470 POTS	4 S/F	1109.0	1110.7	3.5	9.0			
	2950 GORK	45 C	1109.0	1110.8		9.0			
	650 GORK	46 C	1109.1	1109.3	5.5	12.0			
	40 POTS	41 F	1109.1	1110.3	2.7	5600.0			
	100 GORK	41 F	1109.1	1110.4	2.2	855.0			
	950 GORK	45 C	1109.1	1109.7	3.4	11.0			
	113 POTS	41 F	1109.1	1110.7	2.90	200.0			
	950 GORK	45 C	1109.1	1110.8		12.0			
	100 GORK	41 F	1109.1	1110.9		1140.0			
	650 GORK	46 C	1109.1	1110.9		28.0			
	810 KRAK	41 F	1109.2	1110.8	2.8	12.0	5.0		
	33 UPIC	46 C	1109.4	1110.4	2.0				
	2950 GORK	30 PBI	1110.9	1110.9	33.5	5.0			
	5900 KISV	2 S/F	1116.4	1118.3	3.1	6.0			
	2950 GORK	1 S	1118.1	1118.4	0.8	3.0			
	5900 KISV	2 S/F	1124.8	1126.4	4.4	6.0			
	5900 KISV	22 GRF	1132.4	1136.8	11.3	7.0			
	5900 KISV	45 C	1152.1	1154.1		5.0			
	5900 KISV	23 GRF	1152.1	1215.3	47.3	8.0			
	5900 KISV	45 C	1152.1	1156.4	9.5	13.0			
	9300 KISV	2 S/F	1155.3	1156.5	2.3	8.0			
	9500 POTS	24 R	1305.0	1321.5	60.0	39.0			
	245 SGMR	8 S	1414.0E	1414.0	1.00	130.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	1415.0E	1415.0	U	130.0			QL=4 ST=2 TYP=3
	2800 OTTA	3 S	1419.9	1421.8	4.5	20.0	4.0		
	9500 POTS	3 S	1420.0	1421.0	10.0	16.0			
	3000 POTS	42 SER	1420.0	1421.5	15.0	24.0			
	9500 POTS	3 S	1445.0	1446.0	3.0	11.0			
	410 SVTO	8 S	1453.0E	1453.0	U	76.0			QL=4 ST=2 TYP=3

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

MARCH 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Mean (10 ⁻²² W/m ² Hz)	Int	Remarks
26	2800	OTTA	22 GRF	1555.0	1558.0	22.0	15.5	6.0		
	410	SGMR	8 S	1555.0E	1555.0	1.00	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1555.0E	1555.0	1.00	53.0			QL=4 ST=2 TYP=3
	2800	OTTA	20 GRF	1818.0	1955.0	165.0	10.5	5.0		
	410	PALE	8 S	1907.0E	1907.0	U	120.0			QL=4 ST=2 TYP=3
27	200	GORK	44 NS	0410.0E		471.00		5.0		
	204	IZMI	43 NS	0600.0		360.0	15.0			
	260	ONDR	43 NS	0700.0	0846.6	195.0	194.0			
	245	SVTO	44 NS	0703.0E	0724.0	37.00	90.0			QL=4 ST=3 TYP=1
	127	TORN	43 NS	0729.0		367.0		2.0		V=0
	245	LEAR	49 GB	0145.0E	0145.0	1.00	2100.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	0145.0E	0145.0	U	2100.0			QL=4 ST=3 TYP=6
	410	LEAR	8 S	0203.0E	0203.0	1.00	51.0			QL=4 ST=2 TYP=3
	410	LEAR	49 GB	0408.0E	0408.0	1.00	1600.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0408.0E	0408.0	U	200.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0408.0E	0408.0	U	210.0			QL=4 ST=2 TYP=3
	410	PALE	49 GB	0408.0E	0408.0	1.00	2000.0			QL=4 ST=2 TYP=6
	500	HIRA	20 GRF	0410.0	0545.0	200.0	8.0	4.0		0
	9100	GORK	21 GRF	0422.5E	0449.7	73.00	14.0			
	5900	KISV	23 GRF	0457.6	0504.9	16.9	7.0			
	9300	KISV	2 S/F	0457.7	0458.6	2.4	4.0			
	5900	KISV	2 S/F	0457.8	0458.6	3.4	9.0			
	5900	KISV	2 S/F	0519.3	0520.5	5.4	7.0			
	9300	KISV	45 C	0519.7	0521.0		9.0			
	9300	KISV	45 C	0519.7	0520.5	6.7	13.0			
	9100	GORK	2 S/F	0520.2	0520.5	2.5	13.0			
	245	LEAR	8 S	0554.0E	0554.0	U	110.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0554.0E	0554.0	U	21.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0554.0E	0554.0	1.00	110.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0554.1	0554.8	2.0	4.0			
	9300	KISV	2 S/F	0554.3	0554.8	1.4	6.0			
	9100	GORK	1 S	0554.5	0554.8	1.6	6.0			
	5900	KISV	22 GRF	0614.2	0617.2	18.0	6.0			
	245	LEAR	8 S	0637.0E	0637.0	1.00	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0637.0E	0638.0	1.00	170.0			QL=4 ST=2 TYP=3
	5900	KISV	2 S/F	0656.2	0657.4	5.0	7.0			
	9300	KISV	2 S/F	0657.0	0657.5	2.3	9.0			
	9100	GORK	1 S	0657.2	0657.5	1.3	7.0			
15000	KISV	2 S/F	0657.2	0657.6	0.9	6.0				
430	KRAK	8 S	0701.6	0701.9	0.8	240.0				
245	LEAR	8 S	0708.0E	0708.0	U	67.0			QL=4 ST=2 TYP=3	
5900	KISV	22 GRF	0726.3	0752.7	94.6	12.0				
9300	KISV	22 GRF	0731.0	0752.7	90.0	15.0				
245	SVTO	8 S	0940.0E	0940.0	1.00	68.0			QL=4 ST=2 TYP=3	
5900	KISV	2 S/F	0955.8	0956.3	7.8	13.0				
9300	KISV	22 GRF	1005.7	1013.6	17.8	10.0				
260	ONDR	41 F	1015.0	1306.0	325.0	21.0				
9100	GORK	20 GRF	1119.9	1200.2	40.30	11.0				
536	ONDR	41 F	1120.0	1304.6	110.0	25.0				
127	TORN	45 C	1232.4	1234.0	2.2	120.0	25.0			
9500	POTS	1 S	1340.0	1342.0	5.0	10.0				
3000	POTS	1 S	1342.0	1342.5	3.0	3.0				
600	HUMN	2 S/F	1553.0	1553.2	0.5	28.0	10.0			
410	PALE	8 S	1938.0E	1938.0	1.00	72.0			QL=4 ST=2 TYP=3	
245	PALE	49 GB	1938.0E	1940.0	4.00	2300.0			QL=4 ST=2 TYP=6	
245	PALE	8 S	2006.0E	2006.0	1.00	150.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2009.0E	2010.0	2.00	180.0			QL=4 ST=2 TYP=3	
410	PALE	4 S/F	2101.0E	2102.0	3.00	220.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2112.0E	2112.0	U	280.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2131.0E	2131.0	U	50.0			QL=4 ST=2 TYP=3	
200	HIRA	48 C	2238.9	2239.6	11.9	3400.0	80.0		0	
100	HIRA	48 C	2239.0	2240.9	6.1	5400.0	305.0		0	
17000	NOBE	7 C	2240.0	2240.6	1.0	40.0			22R,80,35GHz:0	
500	HIRA	46 C	2240.0	2240.9	9.0	92.0			WL	
2695	PENT	3 S	2240.1	2240.6	4.0	87.4	18.0			
28	260	ONDR	44 NS	0700.0E	0957.4	520.00	361.0			
	127	TORN	43 NS	0716.0		424.0		9.0		V=1

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Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 ⁻²² W/m ² Hz)	Flux Density Mean	Int	Remarks
38	200 GORK	43 NS	0739.0		261.00		5.0		
	33 UPIC	43 NS	0739.2	0957.7	363.1				
	100 GORK	44 NS	0751.4E		248.60		5.0		
	113 POTS	43 NS	0753.9	0918.5	153.0	70.0			
	234 POTS	43 NS	0810.0	0912.8	117.0	35.0			
	410 SVTO	43 NS	0911.0	0922.0	13.0	70.0			QL=4 ST=2 TYP=1
	410 LEAR	44 NS	0912.0E	0912.0	12.00	66.0			QL=2 ST=2 TYP=1
	245 LEAR	8 S	0027.0E	0027.0	U	78.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0027.0E	0027.0	1.00	120.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0114.0E	0114.0	1.00	14.0			QL=4 ST=2 TYP=3
	245 LEAR	4 S/F	0114.0E	0114.0	4.00	210.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0114.0E	0114.0	1.00	440.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0229.0E	0230.0	1.00	120.0			QL=4 ST=2 TYP=3
	5900 KISV	2 S/F	0550.0	0550.5	3.3	6.0			
	9300 KISV	2 S/F	0550.0	0550.6	5.0	8.0			
	9100 GORK	23 GRF	0550.2	0757.0	369.80	80.0			
	5900 KISV	2 S/F	0555.9	0556.7	5.3	5.0			
	5900 KISV	45 C	0604.8	0606.4		7.0			
	15000 KISV	45 C	0604.8	0606.4	3.5	8.0			
	9100 GORK	2 S/F	0604.8	0605.5	3.4	8.0			
	5900 KISV	45 C	0604.8	0605.5	2.3	8.0			
	15000 KISV	45 C	0604.8	0605.7		7.0			
	9300 KISV	45 C	0604.9	0606.4		9.0			
	9300 KISV	45 C	0604.9	0605.5	3.5	9.0			
	2950 GORK	2 S/F	0605.0	0606.5	2.0	4.0			
	650 GORK	23 GRF	0636.0	0833.4	324.00	22.0			
	9100 GORK	2 S/F	0652.6	0654.4	2.7	7.0			
	100 GORK	4 S/F	0653.1	0654.5	2.4	40.00			
	5900 KISV	2 S/F	0653.8	0654.2	1.4	4.0			
	2950 GORK	1 S	0653.8	0654.4	1.4	3.0			
	9300 KISV	2 S/F	0653.9	0654.3	1.3	6.0			
	15000 KISV	2 S/F	0654.1	0654.3	1.3	7.0			
	2840 PEKG	28 PRE	0710.0	0715.3	20.0	10.4			
	2950 GORK	21 GRF	0711.1	0922.0	288.90	45.0			
	5900 KISV	2 S/F	0713.3	0715.5	6.8	12.0			
	9300 KISV	2 S/F	0714.9	0715.5	3.3	8.0			
	9100 GORK	1 S	0715.0	0716.0	2.2	7.0			
	9500 POTS	1 S	0715.0	0716.0	2.5	7.0			
	3000 POTS	3 S	0715.0	0715.5	1.5	8.0			
	2850 CRIM	1 S	0715.0	0715.6	1.6	7.0		2.0	
	15000 KISV	2 S/F	0715.2	0715.5	2.2	6.0			
	2950 GORK	1 S	0715.3	0715.5	1.5	7.0			
	1470 POTS	45 C	0727.0	0741.3	43.0	444.0			
	950 GORK	23 GRF	0727.7	0939.0	245.3	13.0			
	9300 KISV	47 GB	0729.4	0740.4	18.9	586.0			
	5900 KISV	47 GB	0729.6	0740.4	17.1	755.0			
	5900 KISV	29 PBI	0729.6	0746.7	1141.0	207.0			
2695 LEAR	4 S/F	0730.0E	0740.0	48.00	290.0			QL=4 ST=2 TYP=5	
4995 LEAR	49 GB	0730.0E	0740.0	48.00	540.0			QL=4 ST=2 TYP=6	
9100 GORK	47 GB	0730.0	0740.3	21.9	460.0				
2840 PEKG	45 C	0730.0	0739.3	24.0	313.6				
3000 POTS	45 C	0730.0	0740.3	25.0	610.0				
2850 CRIM	45 C	0730.0	0739.5	26.0	259.0		100.0		
9500 POTS	45 C	0730.0	0740.5	70.0	380.0				
2850 CRIM	45 C	0730.0	0742.6		268.0				
2850 CRIM	45 C	0730.0	0740.6		333.0				
2950 GORK	47 GB	0730.0	0740.6		250.0				
2950 GORK	47 GB	0730.0	0739.6	22.3	220.0				
2850 CRIM	45 C	0730.0	0744.8		216.0				
2950 GORK	47 GB	0730.0	0742.8		190.0				
3013 IZMI	22 GRF	0730.2	0740.5	26.0	264.0		100.0		
15000 KISV	45 C	0730.4	0741.1	16.8	300.0				
15000 KISV	29 PBI	0730.4	0747.2	101.2	78.0				
15000 KISV	45 C	0730.4	0742.9		293.0				
8800 LEAR	4 S/F	0731.0E	0740.0	47.00	470.0			QL=4 ST=2 TYP=3	
650 GORK	46 C	0731.6	0741.4		580.0				
650 GORK	46 C	0731.6	0739.9	20.7	670.0				
950 GORK	46 C	0732.2	0740.0	20.1	600.0				
950 GORK	46 C	0732.2	0740.4		600.0				

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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			
28	1415	LEAR	4 S/F	0733.0E	0741.0	29.00	390.0			QL=4 ST=2 TYP=3	
	810	KRAK	45 C	0733.3	0739.5U	34.7	460.00	70.00			
	35000	NOBE	7 C	0733.7	0741.4	30.0	138.0			0,80GHZ:UNCERTA	
	17000	NOBE	7 C	0733.7	0742.8	31.0	175.0			R-L-R	
	2695	SVTO	4 S/F	0734.0E	0740.0	16.00	210.0			QL=4 ST=2 TYP=5	
	4995	SVTO	49 GB	0734.0E	0740.0	17.00	500.0			QL=4 ST=2 TYP=6	
	15400	LEAR	4 S/F	0734.0E	0741.0	44.00	260.0			QL=4 ST=2 TYP=3	
	8800	SVTO	49 GB	0734.0E	0740.0	45.00	510.0			QL=4 ST=2 TYP=6	
	15400	SVTO	4 S/F	0734.0E	0740.0	45.00	250.0			QL=4 ST=2 TYP=3	
	1415	SVTO	4 S/F	0735.0E	0741.0	15.00	310.0			QL=4 ST=2 TYP=3	
	600	HUMN	45 C	0735.0	0741.0	40.4	214.0	35.0			
	500	HIRA	46 C	0736.4	0750.0	48.0	845.0	56.0			0
	500	HIRA	46 C	0736.4	0741.2		345.0				0
	430	KRAK	45 C	0736.5	0752.5		340.00				
	430	KRAK	45 C	0736.5	0740.5	32.5	340.00	80.0			
	610	SVTO	49 GB	0738.0E	0740.0	9.00	600.0				QL=2 ST=2 TYP=6
	610	LEAR	20 GRF	0738.0E	0741.0	37.00	290.0				QL=4 ST=2 TYP=2
	200	HIRA	46 C	0738.9	0800.0	46.0	62.0	23.0			0
	410	SVTO	4 S/F	0739.0E	0741.0	21.00	420.0				QL=4 ST=2 TYP=3
	100	GORK	41 F	0739.2	0750.4		420.0				
	100	GORK	41 F	0739.2	0739.7	12.2	350.0				
	113	POTS	42 SER	0739.3	0750.6	14.6	300.0				
	234	POTS	41 F	0739.5	0749.9U	30.5	165.0U				
	410	LEAR	4 S/F	0740.0E	0741.0	28.00	490.0				QL=4 ST=2 TYP=3
	204	IZMI	45 C	0741.0	0801.0	55.0	150.0				
	245	LEAR	4 S/F	0743.0E	0759.0	28.00	210.0				QL=4 ST=2 TYP=5
	245	SVTO	4 S/F	0743.0E	0759.0	24.00	210.0				QL=4 ST=2 TYP=5
	100	HIRA	46 C	0746.7	0824.9	63.0	430.0	54.0			
	9300	KISV	29 PBI	0748.3E	0748.3	104.5D	118.0				
	2840	PEKG	30 PBI	0754.0		65.0	29.6				
	950	GORK	46 C	0759.2	0759.5	9.3	10.0				
	950	GORK	46 C	0759.2	0805.5		17.0				
	650	GORK	46 C	0759.3	0805.3		16.0				
	650	GORK	46 C	0759.3	0759.6	9.1	4.0				
	3000	POTS	21 GRF	0800.0	0923.0	360.0	37.0				
	1470	POTS	22 GRF	0815.0	0923.0	215.0	37.0				
	600	HUMN	27 RF	0818.8	0912.9	95.3	24.0	6.0			
	536	ONDR	41 F	0830.0	0957.9	120.0	61.0				
	3013	IZMI	1 S	0840.5	0840.7	2.8	13.0	7.0			
	2840	PEKG	1 S	0845.0	0845.5	3.0	8.8				
	9500	POTS	3 S	0845.0	0845.7	2.5	19.0				
	9100	GORK	2 S/F	0845.2	0845.8	5.4	20.0				
	3000	POTS	3 S	0845.5	0845.7	1.7	21.0				
	2850	CRIM	1 S	0845.5	0845.8	1.8	13.4	4.0			
	2950	GORK	2 S/F	0845.5	0845.8	2.5	12.0				
	5900	KISV	2 S/F	0845.5	0845.8	1.9	5.0				
	9300	KISV	2 S/F	0845.5	0845.8	1.3	7.0				
	430	KRAK	45 C	0847.5	0912.0	59.0U	83.0U	30.0U			
	650	GORK	46 C	0854.5	0920.6		40.0				
	650	GORK	46 C	0854.5	0914.7	45.4	52.0				
950	GORK	46 C	0857.3	0911.0	41.7	34.0					
950	GORK	46 C	0857.3	0922.2		30.0					
204	IZMI	22 GRF	0902.0	0913.0	28.0	43.0	20.0				
810	KRAK	27 RF	0903.0	0911.0	38.0	42.0	20.0				
1470	POTS	3 S	0910.0	0911.7	5.0	52.0					
245	SVTO	8 S	0915.0E	0915.0	U	80.0				QL=4 ST=2 TYP=3	
3013	IZMI	1 S	0935.3	0935.6	4.5	10.0	5.0				
9100	GORK	1 S	0939.9	0940.6	1.6	10.0					
9500	POTS	1 S	0940.0	0940.6	2.5	7.0					
2850	CRIM	1 S	0940.1	0940.6	0.8	7.0	2.0				
2950	GORK	1 S	0940.2	0940.6	1.1	5.0					
3000	POTS	42 SER	0954.7	0957.5	4.4	4000.0D					
100	GORK	46 C	0954.8	0955.0	3.8	420.0					
100	GORK	46 C	0954.8	0957.6		5200.0					
234	POTS	42 SER	0954.9	0957.6	3.7	275.0					
204	IZMI	41 F	0955.0	0958.0	4.8	600.0					
113	POTS	41 F	0955.0	0957.6	3.7	2800.0					
245	LEAR	8 S	0956.0E	0957.0	1.0D	160.0				QL=4 ST=2 TYP=3	
410	LEAR	8 S	0957.0E	0957.0	1.0D	56.0				QL=4 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 -22 W/m 2 Hz)	Mean			
28	410	SVTO	8 S	0957.0E	0957.0	1.00	64.0			QL=4 ST=2 TYP=3	
	245	SVTO	8 S	0957.0E	0957.0	1.00	200.0			QL=4 ST=3 TYP=3	
	200	GORK	4 S/F	0957.0	0957.5	1.6	680.0				
	950	GORK	1 S	0957.1	0957.5	0.8	6.0				
	650	GORK	4 S/F	0957.1	0957.5	1.4	20.0				
	600	HUMN	2 S/F	0957.5	0958.0	0.8	14.0	5.0			
	204	IZMI	3 S	1011.0	1011.1	0.2	70.0	60.0			
	410	SVTO	8 S	1016.0E	1016.0	1.00	120.0				QL=4 ST=2 TYP=3
	430	KRAK	8 S	1016.4	1016.5	0.2	280.00				
	536	ONDR	41 F	1120.0	1147.2	40.0	80.0				
	2850	CRIM	1 S	1142.0	1142.3	2.0	22.0	7.0			
	9100	GORK	22 GRF	1146.3	1147.2	11.9	35.0				
	5900	KISV	3 S	1146.6	1147.3	2.9	36.0				
	9300	KISV	3 S	1146.8	1147.3	2.0	37.0				
	15000	KISV	2 S/F	1146.8	1147.3	2.0	16.0				
	2950	GORK	1 S	1146.9	1150.3	4.9	15.0				
	950	GORK	4 S/F	1146.9	1147.5	1.8	230.0				
	610	SVTO	8 S	1147.0E	1147.0	1.00	170.0				QL=2 ST=2 TYP=3
	1415	SVTO	8 S	1147.0E	1147.0	1.00	53.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	1147.0E	1147.0	U	390.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	1147.0E	1147.0	U	330.0				QL=4 ST=2 TYP=3
	3000	POTS	3 S	1147.0	1147.2	2.0	25.0				
	9500	POTS	42 SER	1147.0	1147.2	8.0	25.0				
	3013	IZMI	1 S	1147.0	1147.3	1.8	17.0	8.0			
	1470	POTS	3 S	1147.0	1147.4	2.0	43.0				
	650	GORK	4 S/F	1147.0	1147.4U	1.7	115.00				
	600	HUMN	2 S/F	1147.0	1147.5	2.0	36.0	10.0			
	200	GORK	4 S/F	1149.3	1150.0	1.7	30.0				
	100	GORK	46 C	1149.8	1151.2		210.0				
	100	GORK	46 C	1149.8	1150.5	1.6	490.0				
	9300	KISV	2 S/F	1153.0	1153.6	3.6	11.0				
	5900	KISV	2 S/F	1153.0	1153.6	4.3	7.0				
	15000	KISV	2 S/F	1153.1	1154.1	2.7	9.0				
5900	KISV	2 S/F	1217.7	1218.1	1.0	3.0					
245	SVTO	8 S	1524.0E	1525.0	1.00	50.0				QL=4 ST=2 TYP=3	
245	PALE	8 S	2156.0E	2156.0	U	63.0				QL=4 ST=2 TYP=3	
2695	LEAR	8 S	2304.0E	2304.0	U	75.0				QL=4 ST=2 TYP=3	
29	260	ONDR	44 NS	0700.0E	0903.0	520.00	67.0				
	127	TORN	43 NS	0920.0		230.0		2.0		V=1	
	204	IZMI	43 NS	1002.0		118.0	10.0				
	410	LEAR	8 S	0413.0E	0414.0	2.00	98.0				QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0432.0E	0432.0	1.00	70.0				QL=4 ST=2 TYP=3
	245	LEAR	8 S	0602.0E	0602.0	U	71.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0602.0E	0602.0	1.00	65.0				QL=4 ST=2 TYP=3
	9300	KISV	2 S/F	0652.7	0653.1	1.5	4.0				
	5900	KISV	2 S/F	0652.7	0653.2	1.8	2.0				
	9100	GORK	1 S	0652.8	0653.4	1.5	5.0				
	245	LEAR	8 S	0750.0E	0751.0	1.00	72.0				QL=4 ST=2 TYP=3
	245	SVTO	8 S	0751.0E	0751.0	U	87.0				QL=4 ST=2 TYP=3
	5900	KISV	23 GRF	0825.5	0830.1	31.9	11.0				
	5900	KISV	2 S/F	0825.5	0827.3	3.5	9.0				
	1470	POTS	42 SER	0826.0	0830.2	9.0	7.0				
	3000	POTS	42 SER	0826.0	0827.4	8.0	20.0				
	2950	GORK	46 C	0826.5	0830.1		10.0				
	2850	CRIM	7 C	0826.5	0827.5	6.0	36.0	12.0			
	2850	CRIM	7 C	0826.5	0830.5		13.0				
	2950	GORK	46 C	0826.5	0827.5	5.3	19.0				
	9300	KISV	23 GRF	0826.9	0830.3		6.0				
	9300	KISV	23 GRF	0826.9	0839.7	30.9	11.0				
	9100	GORK	22 GRF	0827.0	0839.6	19.7	7.0				
	2950	GORK	29 PBI	0831.8	0831.8	87.0	7.0				
	950	GORK	1 S	0839.4	0839.8	1.3	3.0				
	5900	KISV	2 S/F	0849.3	0849.9	5.2	5.0				
	9300	KISV	2 S/F	0850.4	0851.5	5.9	6.0				
	9100	GORK	1 S	0851.2	0851.4	0.7	6.0				
	410	LEAR	8 S	0914.0E	0914.0	2.00	140.0				QL=4 ST=2 TYP=3
	410	SVTO	8 S	0914.0E	0915.0	1.00	210.0				QL=4 ST=2 TYP=3
	536	ONDR	41 F	1000.0	1005.6	23.0	15.0				

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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		
29	204 IZMI	3 S	1001.5	1001.6	0.3	48.0	40.0		
	650 GORK	2 S/F	1003.4	1003.7	1.1	7.0			
	950 GORK	2 S/F	1006.4	1007.1	2.9	4.0			
	5900 KISV	46 C	1116.0	1118.4		3.0			
	5900 KISV	46 C	1116.0	1117.8		3.0			
	5900 KISV	46 C	1116.0	1116.9	2.7	3.0			
	430 KRAK	8 S	1142.1	1142.2	0.2	38.0			
	430 KRAK	41 F	1146.2	1149.5	3.7	13.0	3.0		
	9300 KISV	2 S/F	1229.5	1231.2	4.2	9.0			
	5900 KISV	2 S/F	1229.7	1230.8	2.8	11.0			
	536 ONDR	8 S	1356.0	1356.4	2.0	41.0			
536 ONDR	8 S	1444.6	1444.9	1.0	40.0				
30	200 HIRA	43 NS	0330.0	0523.0	180.0	4.0	2.0	0	
	200 GORK	44 NS	0415.0E		420.00		5.0		
	204 IZMI	43 NS	0600.0		360.0				
	260 ONDR	44 NS	0700.0E	1142.4	520.00	213.0			
	245 PALE	8 S	0157.0E	0158.0	1.00	150.0			QL=4 ST=2 TYP=3
	4995 LEAR	4 S/F	0158.0E	0158.0	7.00	76.0			QL=4 ST=2 TYP=3
	2695 LEAR	4 S/F	0158.0E	0158.0	7.00	100.0			QL=4 ST=2 TYP=3
	1415 LEAR	4 S/F	0158.0E	0159.0	5.00	51.0			QL=4 ST=2 TYP=3
	15400 LEAR	8 S	0158.0E	0158.0	1.00	81.0			QL=4 ST=2 TYP=3
	8800 LEAR	8 S	0158.0E	0158.0	2.00	64.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0158.0E	0158.0	U	130.0			QL=4 ST=2 TYP=3
	410 LEAR	8 S	0158.0E	0158.0	U	120.0			QL=4 ST=2 TYP=3
	245 LEAR	8 S	0158.0E	0158.0	U	150.0			QL=4 ST=2 TYP=3
	1415 PALE	4 S/F	0158.0E	0159.0	9.00	140.0			QL=4 ST=2 TYP=3
	2695 PALE	4 S/F	0158.0E	0158.0	4.00	99.0			QL=4 ST=2 TYP=3
	610 PALE	4 S/F	0158.0E	0158.0	10.00	69.0			QL=4 ST=2 TYP=3
	410 PALE	4 S/F	0158.0E	0158.0	10.00	160.0			QL=4 ST=2 TYP=3
	500 HIRA	46 C	0158.0	0158.2	8.5	1300.0	45.0		0
	35000 NOBE	7 C	0158.2	0158.4	3.0	177.0			12L,80GHz:0
	17000 NOBE	7 C	0158.2	0158.4	3.0	98.0			8L
	610 LEAR	8 S	0308.0E	0308.0	U	180.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	0308.0E	0308.0	U	85.0			QL=4 ST=3 TYP=3
	410 PALE	8 S	0308.0E	0308.0	U	85.0			QL=4 ST=2 TYP=3
	610 LEAR	8 S	0310.0E	0310.0	1.00	130.0			QL=4 ST=2 TYP=3
	610 PALE	8 S	0310.0E	0310.0	1.00	100.0			QL=4 ST=2 TYP=3
	200 GORK	4 S/F	0525.6	0526.7	1.7	35.0			
	5900 KISV	2 S/F	0557.0	0558.0	4.6	5.0			
	9300 KISV	2 S/F	0557.1	0557.9	2.7	5.0			
	9100 GORK	1 S	0628.2	0628.5	0.8	5.0			
	9300 KISV	2 S/F	0628.2	0628.5	0.8	5.0			
	5900 KISV	2 S/F	0628.2	0628.6	0.6	2.0			
	2950 GORK	1 S	0628.3	0628.5	0.7	1.0			
	2950 GORK	20 GRF	0719.9	0724.3	8.4	2.0			
	610 LEAR	8 S	0744.0E	0745.0	1.00	440.0			QL=4 ST=2 TYP=3
	5900 KISV	2 S/F	0748.4	0749.1	1.9	3.0			
	536 ONDR	27 RF	0800.0	1157.4	360.0	15.0			
	3013 IZMI	22 GRF	0826.6	0827.0	9.0	15.0	10.0		
	2950 GORK	22 GRF	0920.1	0929.5	13.8	3.0			
	430 KRAK	8 S	0927.5	0927.8	0.6	44.0			
	33 UPIC	3 S	1040.7	1040.9	0.7				
	127 TORN	2 S/F	1040.8	1041.1	0.6	20.0	10.0		
	2950 GORK	21 GRF	1041.8	1154.7	78.20	4.0			
	9100 GORK	21 GRF	1132.0	1158.0	28.00	8.0			
	15000 KISV	2 S/F	1156.8	1157.3	0.9	16.0			
	9300 KISV	2 S/F	1156.9	1157.4	2.5	18.0			
	610 SGMR	8 S	1157.0E	1157.0	U	290.0			QL=4 ST=2 TYP=3
	9100 GORK	3 S	1157.0	1157.3	0.8	15.0			
5900 KISV	2 S/F	1157.2	1157.4	1.8	8.0				
2950 GORK	1 S	1157.2	1157.5	0.6	6.0				
8800 SVTO	8 S	1325.0E	1325.0	U	120.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	1840.0E	1841.0	2.00	110.0			QL=2 ST=2 TYP=3	
2800 OTTA	3 S	1917.4	1918.0	2.2	11.0	2.0			
2800 OTTA	4 S/F	1923.5	1925.3	6.5	15.5	3.0			
245 PALE	8 S	2055.0E	2056.0	1.00	79.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	2055.0E	2056.0	1.00	69.0			QL=4 ST=2 TYP=3	
100 HIRA	8 S	2216.5	2217.2	0.8	1200.0				

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

Outstanding Occurrences

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Mar 90

MARCH 1990

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
30	100 HIRA	48 C	2308.1	2309.2	1.4	7200.0			WL
	100 HIRA	42 SER	2346.2	2352.8	8.6	780.0			
	500 HIRA	4 S/F	2348.5	2353.3	9.5	9.0			0
31	260 ONDR	44 NS	0700.0E	1153.3	520.00	360.0			
	100 HIRA	42 SER	0052.3	0054.6	4.8	970.0			
	100 HIRA	42 SER	0218.5	0228.0	12.5	910.0			
	500 HIRA	3 S	0227.6	0228.3	8.5	8.0			0
	200 HIRA	41 F	0402.0	0428.0	45.0	46.0			0
	5900 KISV	1 S	0610.8	0611.5	1.0	3.0			
	2950 GORK	1 S	0642.0	0642.3	4.7	3.0			
	100 GORK	4 S/F	0740.8	0741.2	1.7	35.00			
	9300 KISV	2 S/F	0741.0	0742.9	4.8	6.0			
	5900 KISV	2 S/F	0741.2	0742.5	4.6	5.0			
	2950 GORK	1 S	0742.0	0742.7	3.5	3.0			
	5900 KISV	2 S/F	0838.3	0839.1	2.2	5.0			
	536 ONDR	41 F	0916.7	0920.7	125.0	122.0			
	950 GORK	21 GRF	0917.4	1018.0	77.4	3.0			
	2950 GORK	21 GRF	0917.4	0918.4	9.0	2.0			
	650 GORK	46 C	0917.7	0920.4		23.0			
	650 GORK	46 C	0917.7	0919.9	5.0	5.0			
	430 KRAK	2 S/F	0917.8	0917.8	1.1	60.0	9.0		
	410 LEAR	8 S	0918.0E	0918.0	1.00	75.0			QL=4 ST=2 TYP=3
	1470 POTS	40 F	0919.5	0920.5	2.5	17.0			
	950 GORK	46 C	0919.6	0920.4		40.0			
	950 GORK	46 C	0919.6	0919.9	2.0	23.0			
	5900 KISV	2 S/F	0919.8	0920.5	1.5	8.0			
	810 KRAK	41 F	0919.8	0920.5	1.5	22.0	10.0		
	2950 GORK	1 S	0920.2	0920.5	0.9	9.0			
	430 KRAK	8 S	0920.2	0920.5	0.7	240.00			
	3000 POTS	3 S	0920.2	0920.5	0.8	11.0			
	5900 KISV	45 C	0956.4	0957.3		3.0			
	650 GORK	2 S/F	0956.4	0956.9	1.3	11.0			
	5900 KISV	45 C	0956.4	0956.9	2.4	4.0			
	2950 GORK	2 S/F	0956.5	0957.2	1.4	4.0			
9100 GORK	1 S	0956.7	0957.0	0.6	3.0				
950 GORK	1 S	0956.7	0957.1	0.8	1.0				
9500 POTS	20 GRF	1110.0	1121.2	35.0	15.0				
9300 KISV	22 GRF	1115.7	1121.2	27.3	16.0				
9100 GORK	22 GRF	1118.2	1121.1	12.80	12.0				
5900 KISV	46 C	1118.3	1121.2	23.7	14.0				
5900 KISV	46 C	1118.3	1122.3		10.0				
5900 KISV	46 C	1118.3	1120.7		14.0				
5900 KISV	46 C	1118.3	1119.9		10.0				
245 SVTO	8 S	1120.0E	1121.0	2.00	31.0			QL=4 ST=2 TYP=3	
5900 KISV	22 GRF	1150.3	1151.5	14.5	4.0				
9300 KISV	2 S/F	1150.4	1154.3	6.0	4.0				
536 ONDR	41 F	1221.0	1245.6	40.0	35.0				
2800 OTTA	20 GRF	1511.3	1512.5	14.8	7.0	3.0			
610 SGMR	8 S	1923.0E	1924.0	1.00	89.0			QL=4 ST=3 TYP=3	
15400 SGMR	8 S	1923.0E	1924.0	1.00	63.0			QL=4 ST=3 TYP=3	

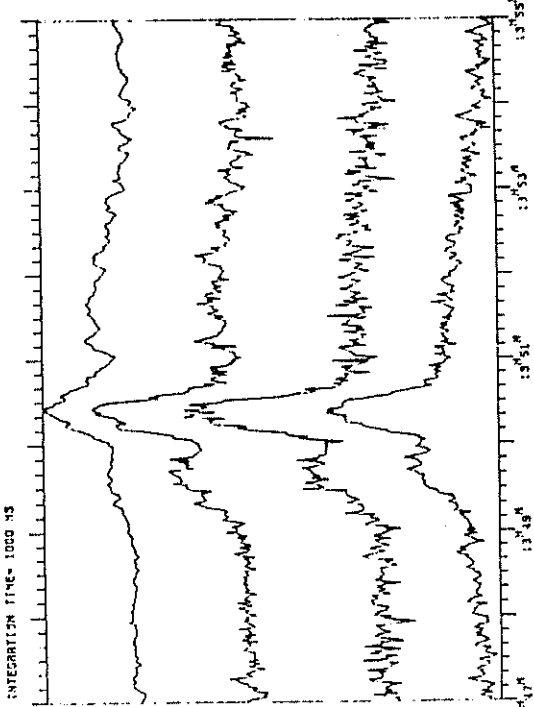
Reports are received routinely from the following observatories:

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 = Hiraïso	LEAR = Learmonth	PENT = Penticton	TRST = Trieste
HUAN = Huancayo	NOBE = Nobeyama	POTS = Potsdam	TYKW = Toyokawa
		SGMR = Sagamore Hill	UPIC = Upice

Explanation of Type Code:

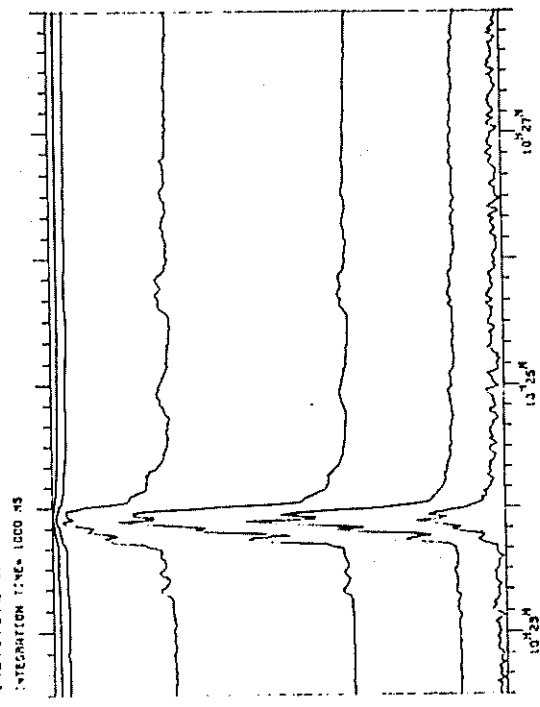
1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 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	

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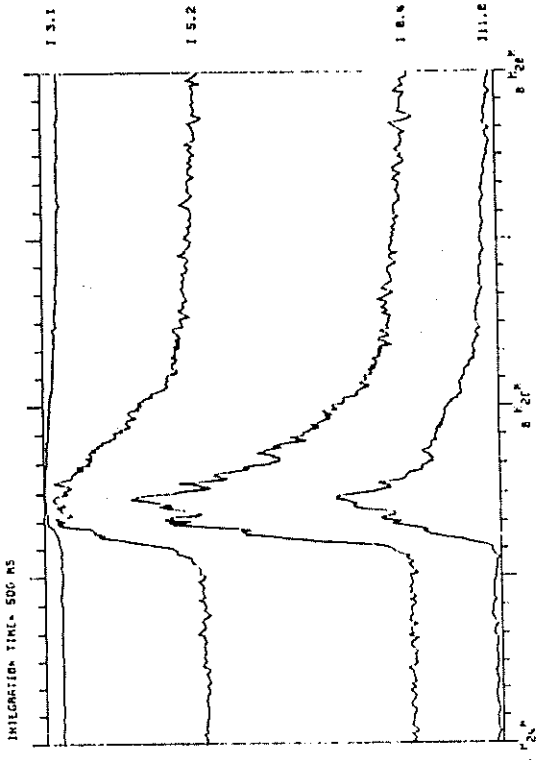
UT ON MAR. 19 1990

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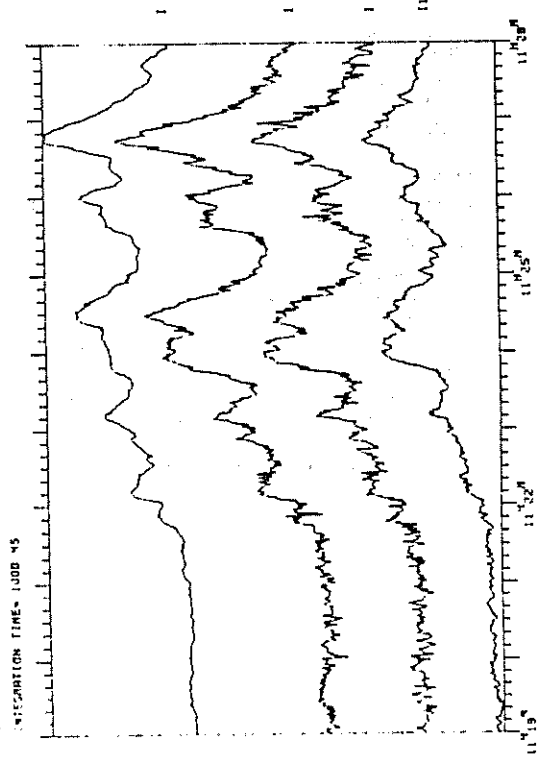
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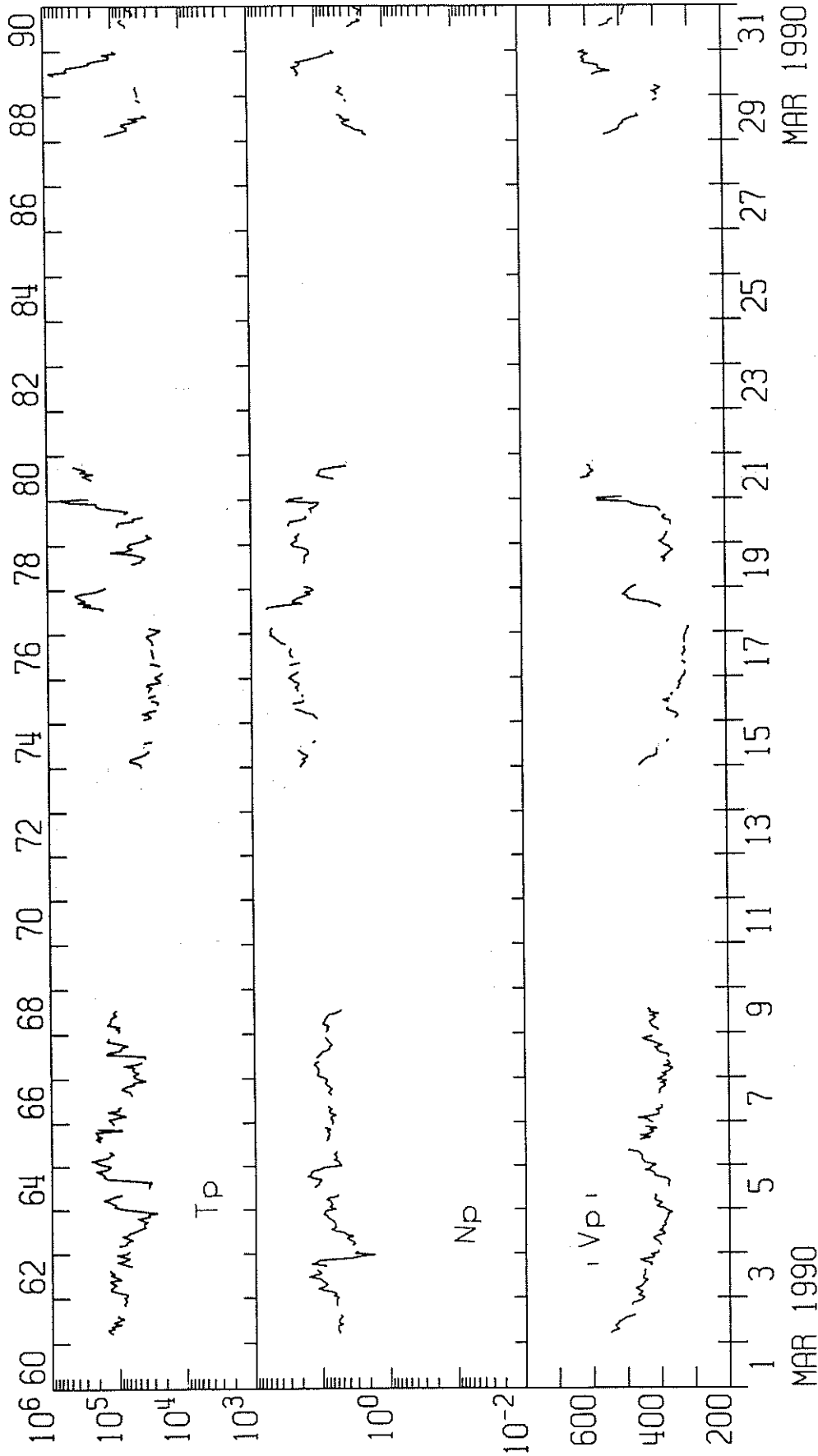
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UT ON MAR. 18 1990

IMP 8 SOLAR WIND PLASMA
MARCH 1990

MIT/CSR IMP 8 PLASMA PARAMETERS



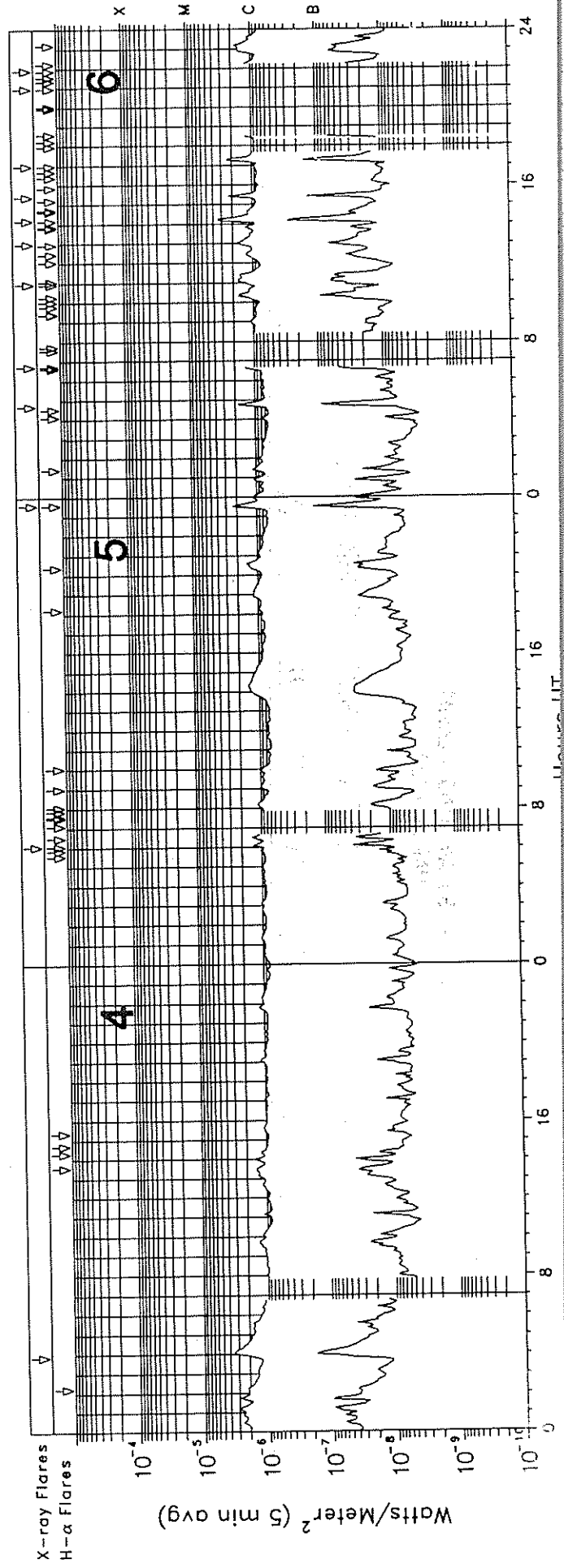
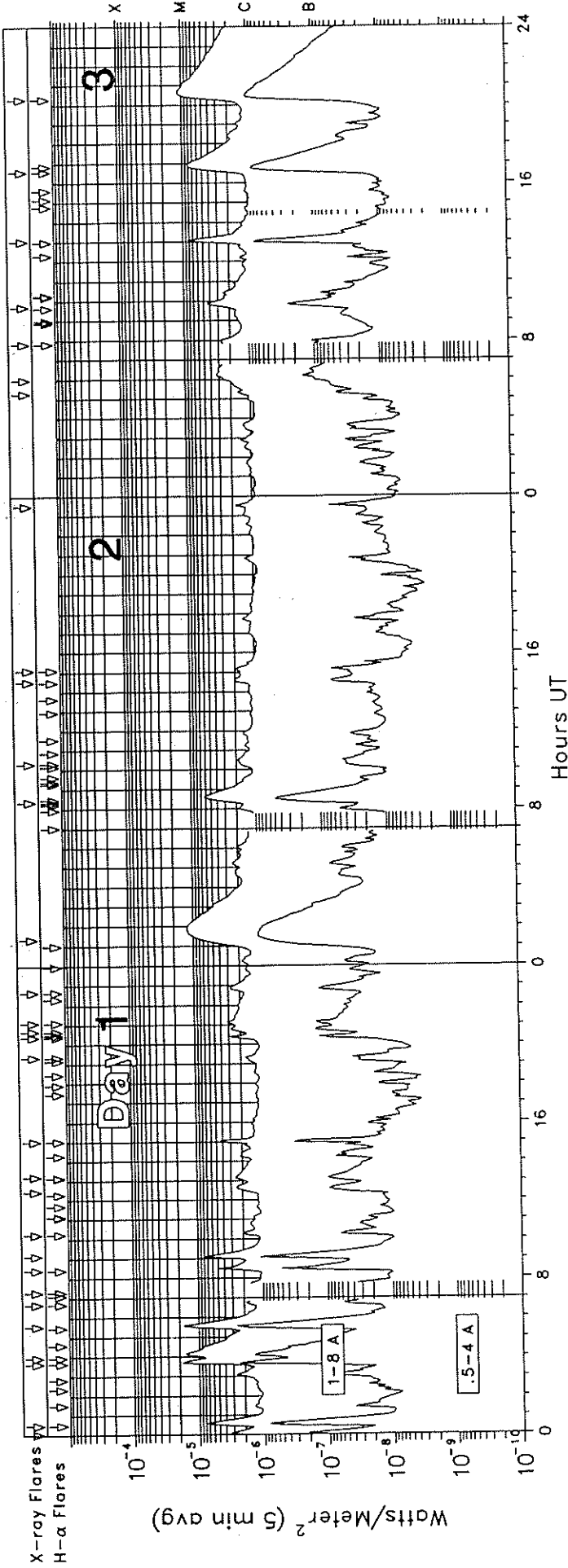
IMP 8

MIT

PRELIMINARY ONE-HOUR AVERAGES

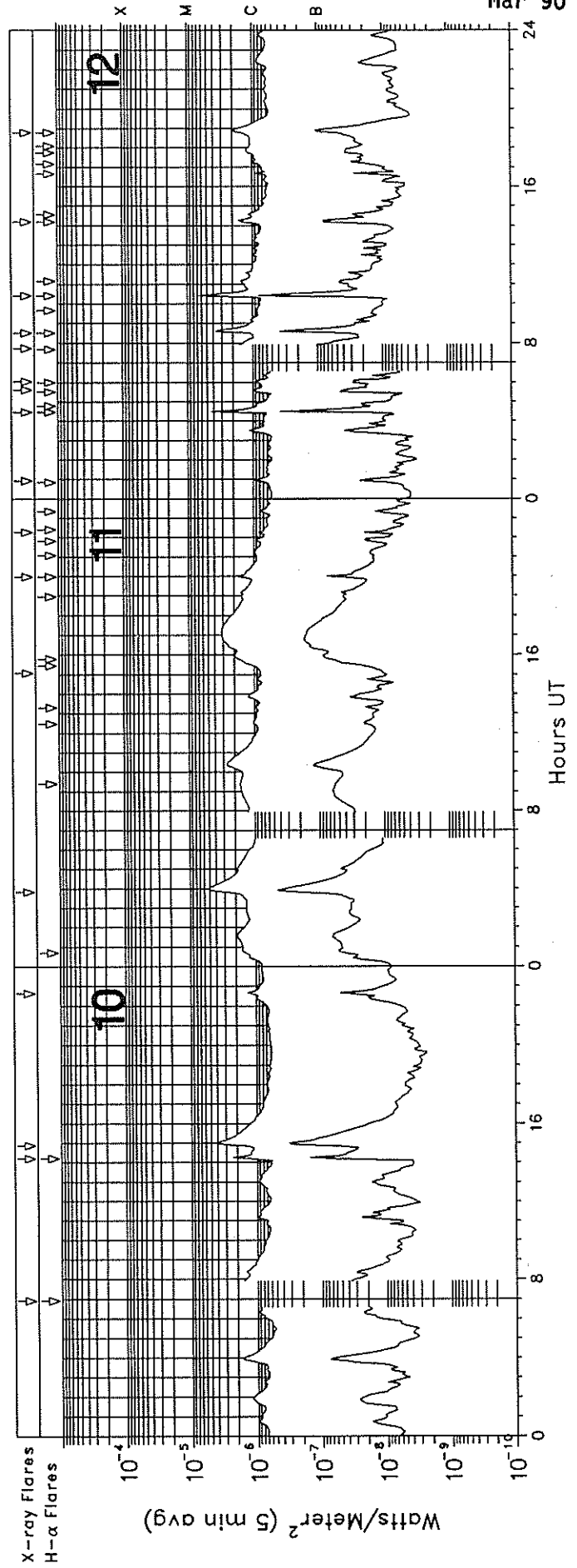
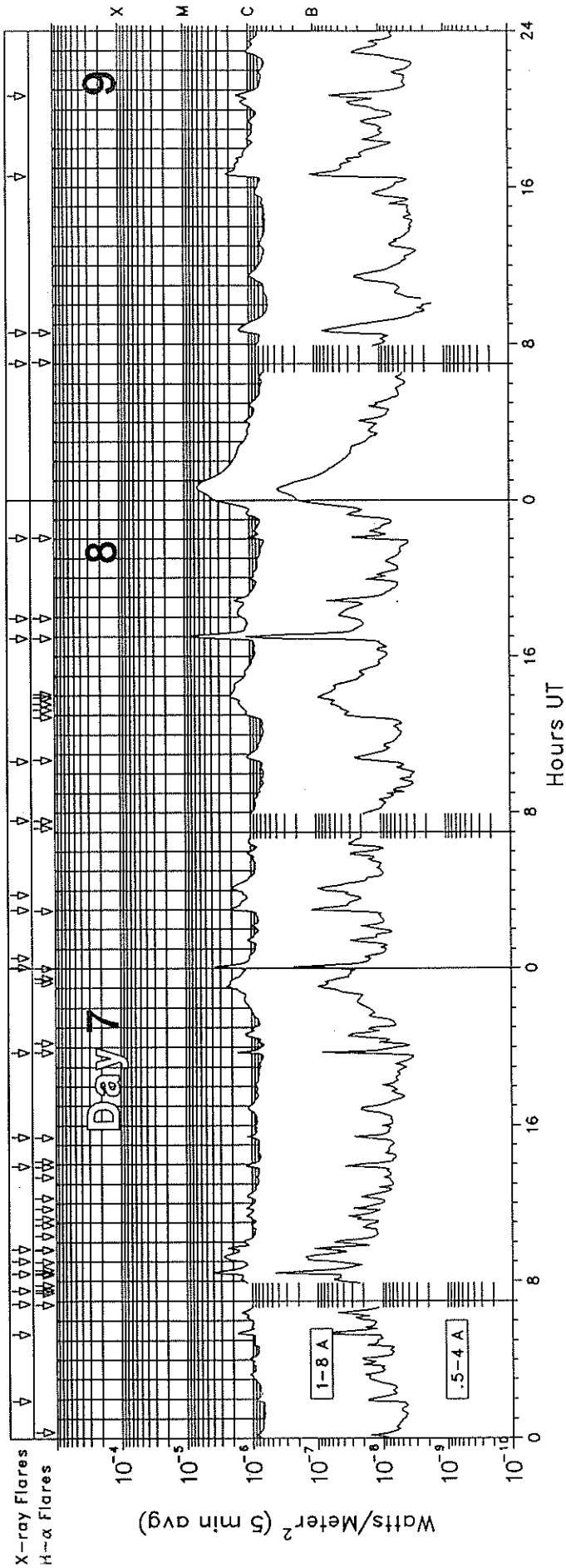
GOES-7 X-RAY DETECTOR

March 1990



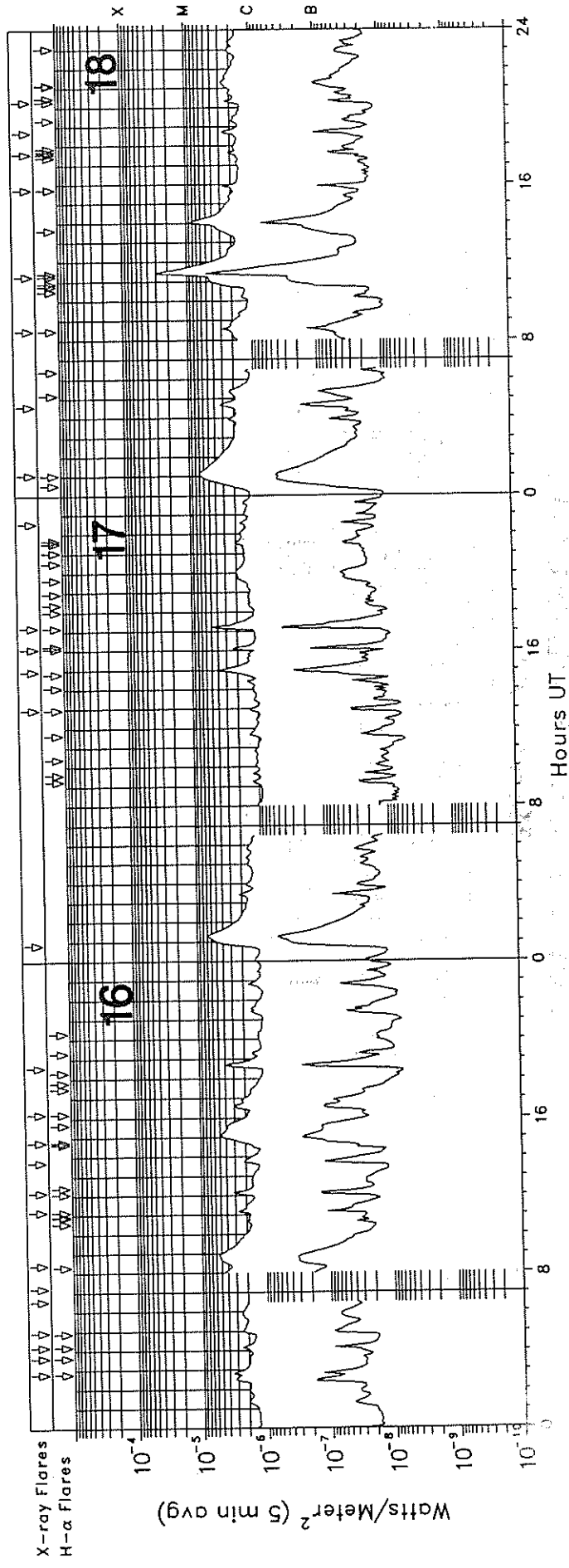
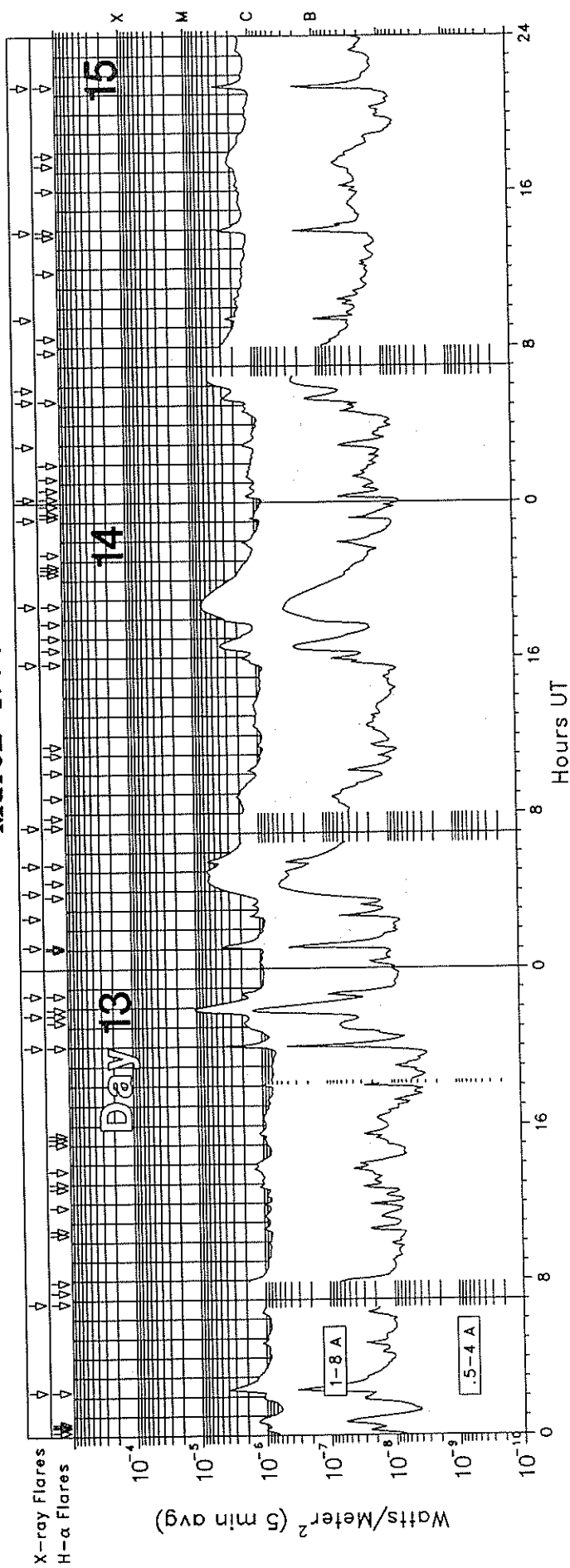
GOES-7 X-RAY DETECTOR

March 1990



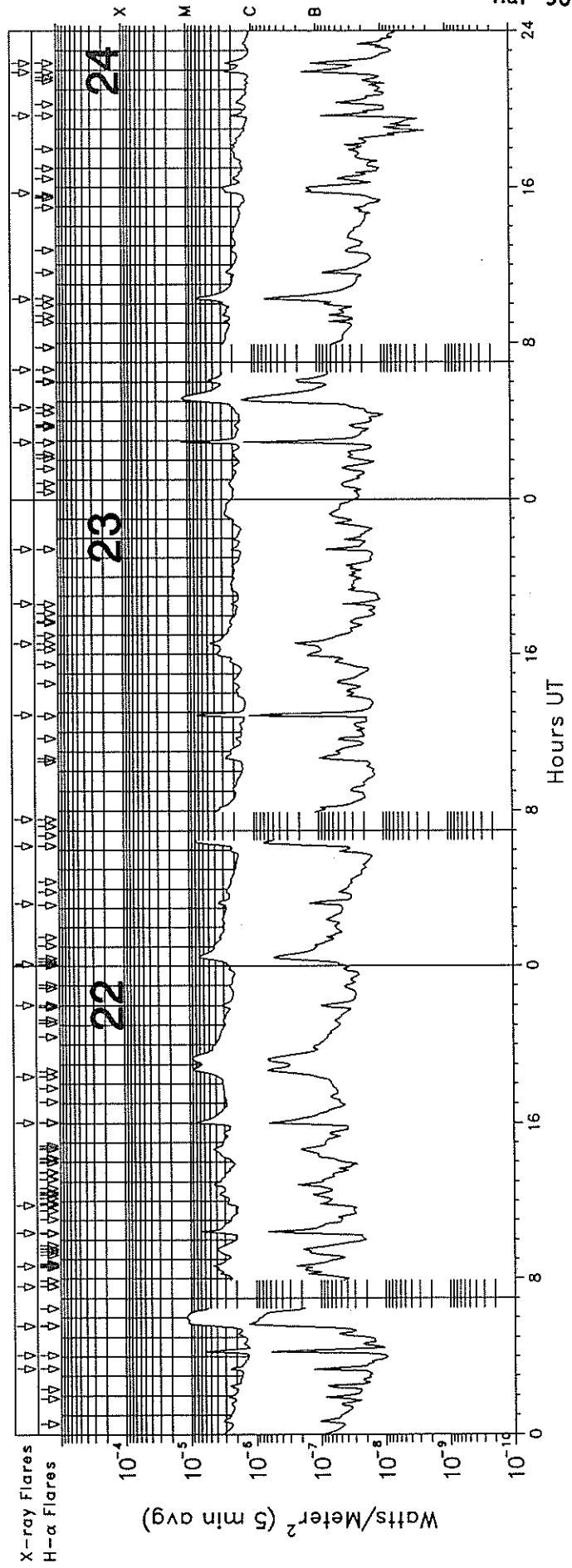
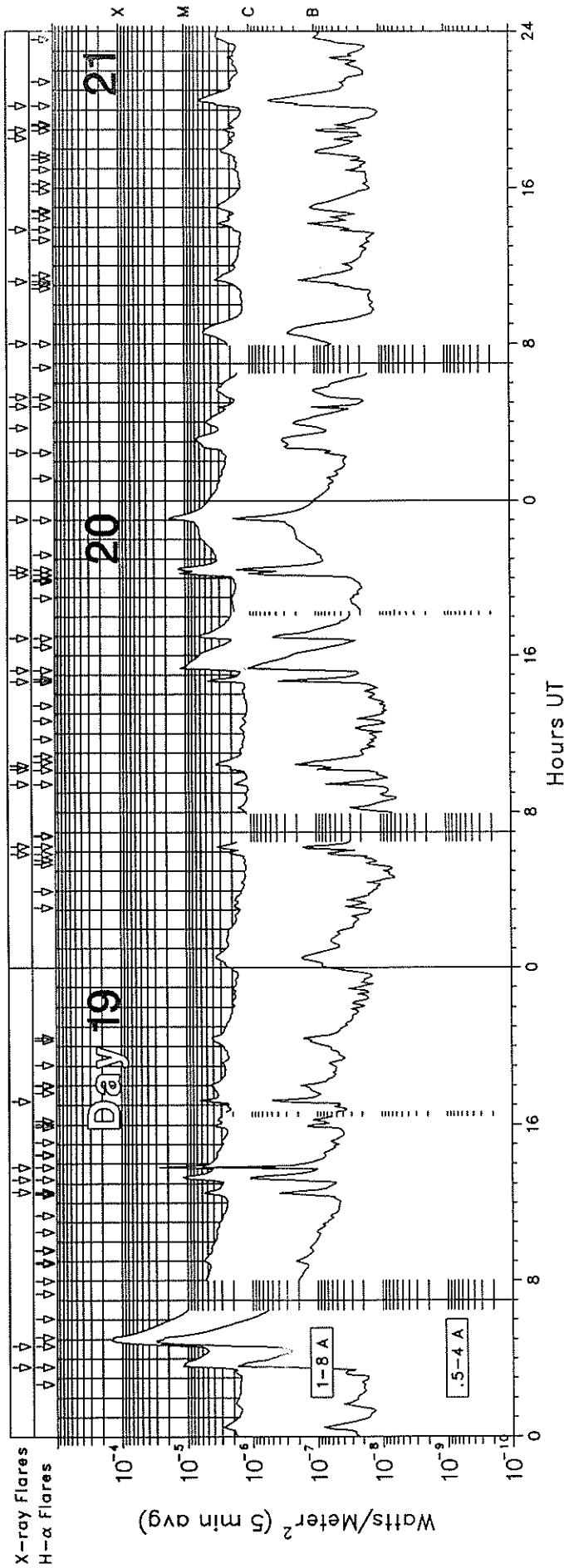
GOES-7 X-RAY DETECTOR

March 1990



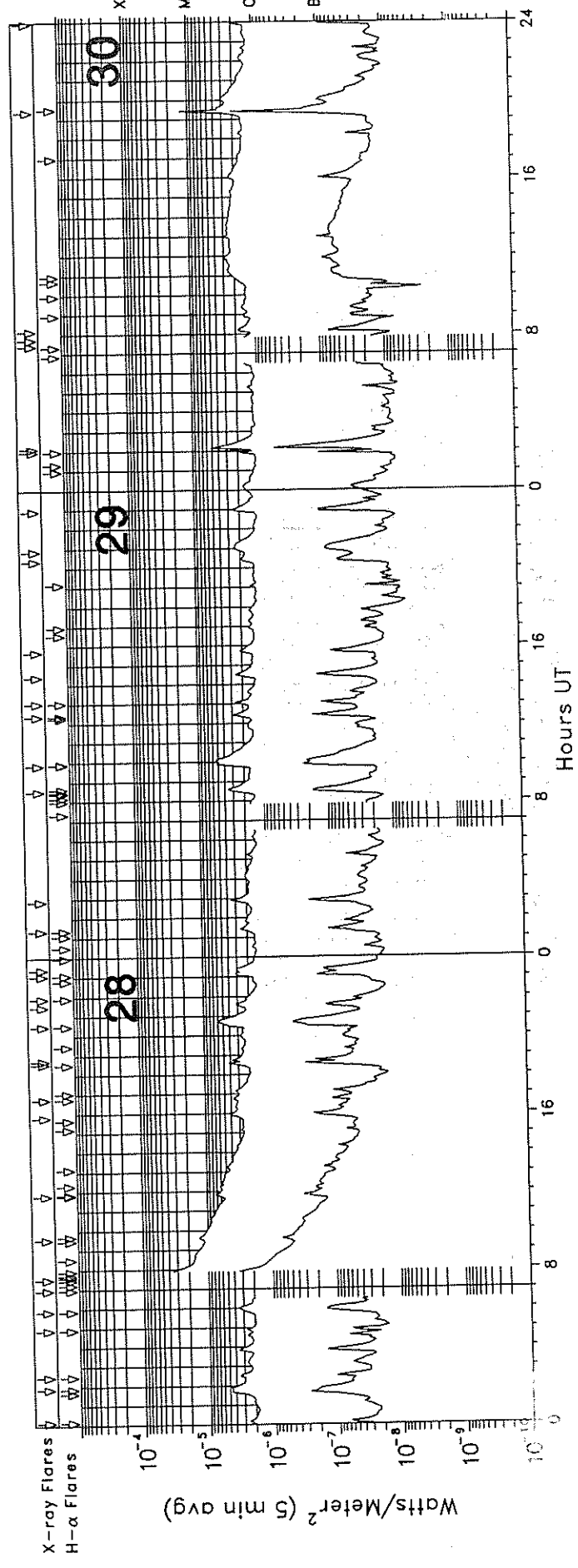
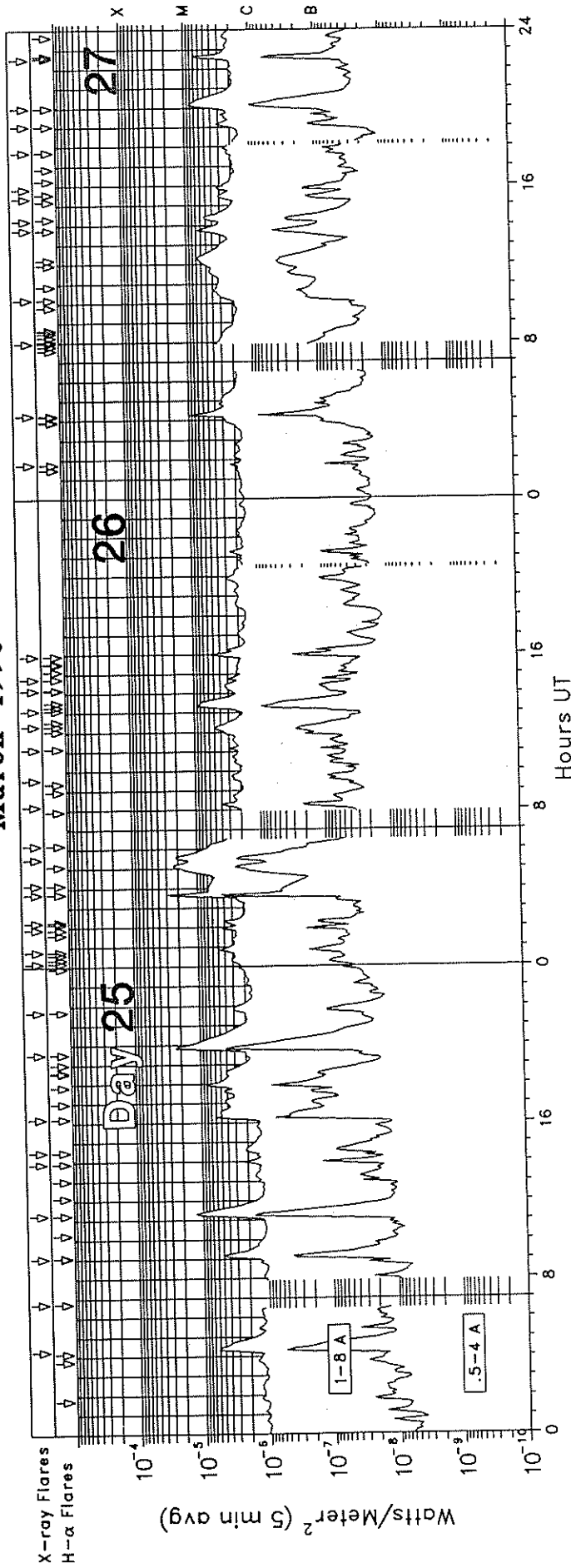
GOES-7 X-RAY DETECTOR

March 1990



GOES-7 X-RAY DETECTOR

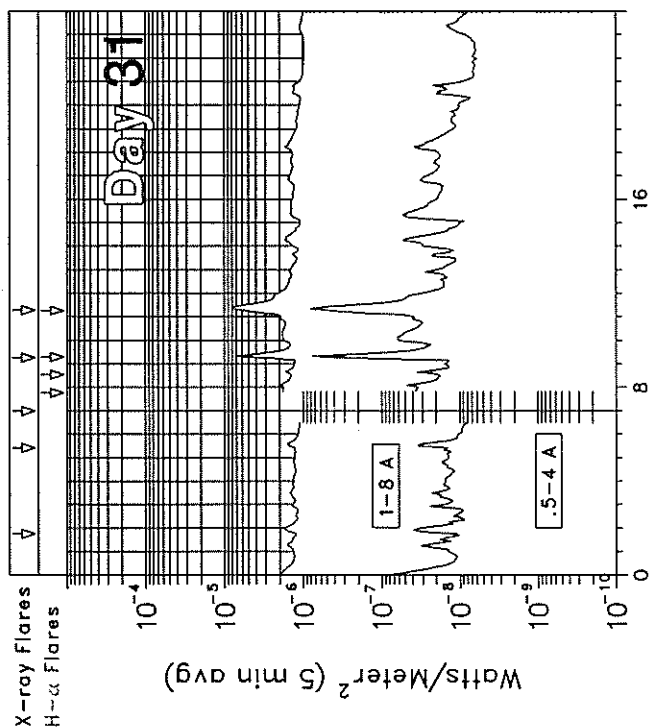
March 1990



GOES-7 X-RAY DETECTOR

March 1990

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Mar 90



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Mar 90

GOES SOLAR X-RAY FLARES
Preliminary Listing

March 1990

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
01	0002	0007	0013				C3.4	
01	0030E	0034	0058D	N32	E38	SF	C8.6	5961
01	0339E	0340	0430D	N30	E39	1B	M1.9	5961
01	0356E	0409	0453D	S19	W45	2N	M1.7	5947
01	0533E	0537	0552D	N31	E34	1N	M1.8	5961
01	0641E	0654	0658D	N33	E34	SF	C2.0	5961
01	0718E	0737	0807D	N33	E33	SN	C2.9	5961
01	0825E	0833	0952D	N32	E33	1N	C5.6	5961
01	0908	0908U	0911	N32	E33	SF	C8.7	5961
01	1015E	1021	1031D	N33	E32	SF	C2.1	5961
01	1226E	1229	1255D	N32	E30	SF	C2.5	5961
01	1312E	1317	1320D	S21	W46	SF	C2.7	5947
01	1502E	1503	1515D	N28	E30	SN	C6.0	5961
01	1920E	1921	1931D	N29	E29	SF	C1.8	5961
01	2023E	2024	2035D	N26	E29	SN	C3.4	5961
01	2041E	2046	2057D	S15	W54	SF	C2.8	5947
01	2107E	2109	2132D	N29	E26	SF	C3.9	5961
01	2240E	2247	2257D	S18	W56	SF	C2.8	5947
02	0120	0122U	0220	N30	E24	SF	M1.2	5961
02	0821E	0836	0929D	N32	E21	SF	C6.3	5961
02	1019E	1031	1046D	N30	E67	1F	C1.9	5964
02	1431E	1431U	1530D	S20	E08	SF	C2.8	5958
02	1506E	1509	1514D	S21	W15	SF	C2.0	5955
02	2329	2333	2336				C1.9	
03	0516	0520	0524				C1.8	
03	0557	0614	0645				C3.4	
03	0748	0802	0807				C3.2	
03	0942E	0950	1018D	S19	W03	1F	C4.5	5958
03	1302E	1306	1333D	S12	E65	SF	C8.6	5965
03	1634E	1647	1730D	N31	E05	SF	C8.4	5961
03	2017	2025U	2025	S12	W76	SF	M1.1	5945
04	0352	0406	0427				C3.4	
05	0603E	0607	0705D	N29	W16	SF	C1.4	5961
05	2334	2336U	2340	N32	W23	SF	C2.4	5961
06	0440	0448	0453				C1.9	
06	0642E	0642	0657D	N11	E59	SF	C1.4	5966
06	1056E	1125	1135D	S10	E25	SF	C1.7	5965
06	1258E	1308	1325D	N32	W32	SF	C1.8	5961
06	1411E	1414	1504D	S14	W21	SF	C4.3	5963
06	1523E	1527	1537D	S14	W21	SF	C2.7	5963
06	1657E	1719	1747D	S13	W22	SN	C3.3	5963
06	2057E	2058	2110D	S14	W26	SF	C2.0	5963
06	2153E	2155	2225	S12	W23	SF	C1.8	5963
07	0155E	0157	0205D	N31	W40	SF	B9.7	5961
07	0519E	0523	0535D	S12	W29	SF	C2.2	5963
07	0651		0654	S12	W30	SN	C3.2	5963
07	0732	0737	0741				C2.7	
07	0824	0828	0832				C5.5	
07	0902E	0911	0944D	S12	E12	1N	C2.9	5965
07	0939E	0944	0956D	N29	E01	SF	C2.4	5964
07	1354E	1358	1422D	N10	E45	SF	C1.3	5966
07	1524E	1525	1536D	N29	W03	SF	C1.3	5964
07	1944E	1947	2006D	N28	W04	SF	C2.1	5964
08	0003E	0005	0030D	N29	W07	SF	C4.6	5964
08	0032E	0035	0040D	S13	W40	SF	C6.2	5963
08	0259E	0302	0327D	S10	E04	SF	C2.1	5965
08	0347	0409	0419				C2.0	
08	0736	0738	0754D	N31	W05	SN	C4.9	5964

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
08	1039	1055	1110				C1.1	
08	1655E	1702	1720D	N29	W15	SN	C9.1	5964
08	1757E	1820	1915D	S13	W05	SF	C1.8	5965
08	2203E	2204	2210	N31	W11	SF	C1.1	5964
09	0702E	0706	0756	S11	W12	SF	C1.9	5695
09	0835E	0838	0851D	S11	W14	SF	C1.4	5965
09	1633	1643	1720				C2.2	
09	2042	2047	2051				C1.8	
10	0655E	0657	0708D	N29	W35	SF	C2.1	5964
10	1412E	1414U	1424D	N30	W39	SF	C2.6	5964
10	1452	1503	1516				C4.2	
10	2238	2242	2246				C1.4	
11	0350	0401	0417				C5.3	
11	1504	1716	1809				C3.2	
11	1958E	1959	2036D	N30	E53	SN	C2.1	5969
11	2217E	2219	2223D	N30	E53	SF	C1.0	5969
12	0056E	0056	0107D	N29	E53	SF	C1.0	5969
12	0428E	0431	0441D	N31	E46	1N	C6.5	5969
12	0536E	0538	0555D	N31	E52	SF	C1.1	5969
12	0603E	0604	0613D	N31	E53	SF	C1.1	5969
12	0743E	0744	0813D	N32	E52	SF	C1.9	5969
12	0830	0837	0900D	N32	E51	SN	C4.3	5969
12	1025E	1029	1040D	N31	E47	1N	C9.1	5969
12	1411E	1419	1427D	N32	E48	SF	C1.7	5969
12	1847E	1852	1914D	N30	E45	SF	C2.1	5969
13	0216E	0217	0245D	N30	E39	SF	C4.3	5969
13	0648E	0653	0757D	N31	E36	SF	C6.1	5969
13	1959E	2001	2015D	S35	E84	1N	C5.6	5974
13	2137E	2153	2231D	N32	E28	1N	M1.1	5969
13	2238E	2240	2256D	S35	E88	SF	C2.4	5974
14	0107E	0110	0127D	N31	E28	SF	C5.5	5969
14	0238	0242	0247				C1.5	
14	0354E	0500	0612D	N33	E25	1F	C6.4	5969
14	0522E	0533	0550D	S33	E77	1F	C7.3	5974
14	0719E	0725	0736D	S34	E79	1F	C3.9	5974
14	1542E	1557	1611D	N30	E20	SF	C1.8	5969
14	1842E	1852	1902D	S35	E75	SF	C7.0	5974
14	2308	2312	2314				C1.3	
15	0013E	0016	0024D	S35	E69	SF	C1.5	5974
15	0256	0259	0302				C1.8	
15	0513E	0514	0531D	S34	E63	SF	C2.9	5974
15	0550	0623	0735				C5.5	
15	0926	0930	0932				C3.9	
15	1353E	1355	1410D	S36	E62	SF	C3.3	5974
15	2125E	2127	2138D	S37	E65	SF	C3.9	5974
16	0248E	0249	0304D	N31	W03	SF	C3.6	5969
16	0338E	0339	0342D	S34	E51	SF	C2.1	5974
16	0411E	0416	0421D	S35	E56	SF	C2.7	5974
16	0456E	0458	0516D	S37	E56	SF	C2.5	5974
16	0632	0638	0642				C3.6	
16	0712	0726	0814				C6.4	
16	0825	0856	0909				C5.5	
16	1110	1111U	1154	N30	W08	SF	C2.9	5969
16	1210E	1210U	1220	S35	E54	SF	C3.4	5974
16	1343	1348	1358				C2.1	
16	1445E	1459	1550D	N15	E63	1F	C4.8	5978
16	1613E	1632	1652D	S34	E53	SF	C3.5	5974
16	1833	1844	1851				C4.1	

GOES SOLAR X-RAY FLARES
 Preliminary Listing

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March 1990

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
17	0049	0119	0139				C6.9	
17	1257	1300	1304				C1.5	
17	1456	1501	1508				C4.5	
17	1605E	1611	1627D	S35	E40	SF	C2.9	5974
17	1711E	1711	1739D	S35	E39	SF	C5.9	5974
17	2233	2236	2238				C2.3	
18	0104E	0108	0145D	N36	W22	1F	C7.2	5969
18	0436	0443	0451				C3.3	
18	0828E	0836U	0843	N33	W27	SF	C2.2	5969
18	1115E	1130	1220D	S35	E31	1B	M3.2	5974
18	1544E	1549	1558D	S31	E73	SF	C2.9	5983
18	1734E	1740	1748D	N34	W32	SF	C2.5	5969
18	1840	1845	1849				C3.2	
18	2017E	2019	2029D	S34	E71	1N	C2.7	5983
19	0334E	0338	0420D	N31	W42	2N	M1.3	5969
19	0439E	0508	0620D	N31	W43	2B	X1.5	5969
19	1234E	1235	1245D	S13	E58	SF	C5.8	5984
19	1312E	1316	1337D	S34	E66	1N	M1.3	5983
19	1350E	1354	1403D	S14	E69	1N	M4.2	5987
19	1712	1715	1717				C8.8	
20	0551E	0613	0653D	N19	E16	SF	C2.1	5978
20	0616E	0616	0625D	S35	E60	SF	C3.5	5983
20	0925E	0925	0932D	S34	E58	SF	C1.8	5983
20	1011E	1025	1050D	S07	E74	SF	C2.4	5988
20	1022	1029	1036				C3.6	
20	1438E	1443	1502	S04	E65	1N	C5.3	5988
20	1514E	1521	1634D	S36	E53	1N	M1.2	5983
20	1653E	1656	1742D	S36	E05	SN	C6.4	5974
20	2009E	2013	2034D	S05	E63	1B	M1.3	5988
20	2025E	2026	2050D	S34	W03	1B	M2.1	5974
20	2302E	2310	2341D	S33	W05	1F	M1.8	5974
21	0225E	0304	0342D	S13	E36	1F	C6.6	5984
21	0341	0401	0413				C4.7	
21	0447E	0448	0451D	S34	W07	SF	C4.1	5974
21	0516E	0518	0553D	N19	E06	SF	C3.3	5978
21	0800E	0833	0921D	S13	E35	SF	C5.5	5984
21	1111E	1114	1144D	S06	E57	SF	C3.4	5988
21	1351E	1409	1436D	S13	E30	SF	C3.2	5984
21	1832	1835	1837				C2.3	
21	1859E	1859	1905D	S32	E36	SF	C3.4	5983
21	2012E	2017	2157	S36	W09	SF	C6.3	5974
22	0323E	0323	0333D	S33	E36	SF	C4.4	5983
22	0405E	0420	0430D	S35	E28	1N	C7.5	5983
22	0534E	0543	0651D	S14	E21	SF	M1.1	5984
22	0737E	0741	0914D	S12	E18	SN	C4.7	5984
22	0839E	0843	0906D	S32	E28	SF	C5.1	5983
22	1023E	1026	1051D	S33	E27	SN	C9.6	5983
22	1148	1253	1316				C4.4	
22	1601E	1602	1619D	S36	W19	SF	C9.1	5974
22	1823E	1842	2002	S13	E12	SF	C9.6	5984
22	2201E	2202	2208D	S34	E17	SF	C3.4	5983
23	0007E	0024	0109	S06	E33	1F	C7.3	5988
23	0315E	0316	0326D	S34	E15	SF	C4.0	5983
23	0613E	0622	0652D	S34	W34	SF	C8.2	5974
23	0734E	0810	0820D	S05	E32	SF	C3.5	5988
23	1252	1256U	1301D	S07	E31	1N	M1.2	5988
23	1632E	1633	1647D	S07	E22	SF	C5.1	5988
23	1836E	1838	1846D	S35	E07	SF	C2.4	5983
23	2127E	2127	2135D	S05	E24	SF	C2.4	5988

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
24	0254E	0255	0309D	S35	E01	1N	M1.5	5983
24	0442E	0503	0613D	S06	E18	SF	M1.2	5988
24	0638E	0640	0648D	S07	E15	SF	C5.9	5988
24	1014	1020	1025				C8.2	
24	1542E	1600	1623D	S05	E12	SF	C2.8	5988
24	1940E	1943	2003D	S06	E08	SF	C2.5	5988
24	2154E	2158	2221D	S14	W17	SF	C2.6	5984
24	2220E	2220	2242D	S35	W03	SN	C2.5	5983
25	0416E	0424	0524D	S13	W20	1F	C6.4	5984
25	0643E	0645	0703D	S14	W21	SF	C3.3	5984
25	0904E	0908	0932D	S13	W24	SF	C5.2	5984
25	1115	1117U	1122	S13	W32	SF	M1.3	5984
25	1355E	1402	1415D	S05	E01	SF	C2.7	5988
25	1429E	1429	1456D	S10	W30	SF	C2.2	5984
25	1613E	1738	1906D	S11	W26	1N	M1.0	5984
25	1932E	1953	2045D	S12	W29	1B	M2.7	5984
25	2141E	2149	2155D	S31	W68	SF	C3.1	5974
26	0009E	0012	0026D	S32	W67	SF	C3.2	5974
26	0045E	0053	0114D	S37	W63	SF	C4.8	5974
26	0154	0158	0203				C4.7	
26	0215	0219	0235	S06	E07	SF	C4.1	5988
26	0341	0343U	0407D	S13	W30	1N	M3.5	5984
26	0409E	0506	0622D	S13	W35	1N	M2.6	5984
26	0529	0535	0540				M2.3	
26	0611E	0613	0637D	S06	E03	SF	C6.7	5988
26	0811E	0821	0856D	S16	W37	SF	C4.6	5984
26	0933	0947	0955				C3.1	
26	1108	1112	1114				C3.5	
26	1219E	1220	1226D	S08	E02	SF	C4.9	5988
26	1307E	1322	1344D	S13	W41	SF	C9.0	5984
26	1410E	1422	1456D	S14	W41	SF	C3.4	5984
26	1445E	1446	1450D	S31	W71	SF	C3.3	5974
26	1555E	1601	1623D	S06	E01	1F	C6.1	5988
27	0145E	0145	0155D	S31	W33	SF	C2.5	5983
27	0414E	0417	0432D	S37	W76	1N	M1.1	5974
27	0758E	0758	0804D	S16	W25	SF	C3.8	5987
27	1012	1222	1242				C6.8	
27	1345	1345U	1410	S10	W50	1N	C6.8	5984
27	1414	1428	1432				C5.5	
27	1521	1533	1542				C3.1	
27	1551	1555	1558				C4.8	
27	1743	1743U	1747D	S12	W54	SF	C2.8	5984
27	1903E	1911	1932D	S11	W51	1F	C3.2	5984
27	1959E	2017	2045D	S14	W56	1F	C9.5	5984
27	2231	2243	2246				C8.2	
28	0009E	0010	0021	S05	W27	SF	C2.8	5988
28	0152	0154	0215	S05	W32	SF	C4.9	5988
28	0229E	0230	0238D	N23	W60	SF	C3.5	5991
28	0453E	0453	0503D	S13	W63	SF	C2.8	5984
28	0551E	0557	0606D	S12	W65	SF	C3.7	5984
28	0656E	0700	0713D	N23	W63	SF	C5.2	5991
28	0731E	0745	0948D	S04	W37	2N	M4.2	5988
28	0932E	0936	0944D	N26	W61	SF	M1.4	5991
28	1147E	1148	1203D	S06	W39	SF	C7.9	5988
28	1549E	1558	1631D	S12	W70	SF	C5.0	5984
28	1645E	1648	1700D	S12	W71	SF	C4.0	5984
28	1834	1837	1839				C5.5	
28	1844	1846U	1859D	S13	W68	SF	C4.3	5984
28	2030E	2031	2113	S13	W69	SF	C7.0	5984
28	2129	2137	2143				C3.1	
28	2154E	2155	2202D	S07	W43	SF	C2.3	5988

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GOES SOLAR X-RAY FLARES
Preliminary Listing

March 1990

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region
28	2304	2308	2316				C3.5	
28	2323	2323U	2342	S13	W71	SF	C4.0	5984
29	0121E	0128	0135D	S12	W74	SF	C2.9	5984
29	0252	0256	0259				C4.5	
29	0830E	0832	0843D	S33	W61	SF	C3.8	5983
29	0951	1007	1019				C5.5	
29	1222	1226	1231				C3.2	
29	1302	1306	1311				C2.8	
29	1424	1432	1443				C2.6	
29	1541	1546	1551				C2.3	
29	2021	2024	2029				C2.3	
29	2051	2108	2119				C2.5	
29	2255	2300	2311				C2.8	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	NOAA/ USAF Region
30	0158E	0159	0203D	S13	W85	SF	C4.0	5984
30	0207	0212	0218				C5.9	
30	0724E	0724	0732D	S11	W88	SF	C6.9	5984
30	0744E	0745	0749D	S12	W83	SF	C2.5	5984
30	0809	0815	0822				C2.0	
30	1922	1927	1930				M1.8	
30	2355	0000	0017				C2.1	
31	0145	0155	0210				C1.7	
31	0525	0535	0545				C1.6	
31	0700	0805	0820				C2.1	
31	0916	0922	0928				C7.9	
31	1117E	1117	1122D	S03	W78	SF	C8.7	5988

Preliminary GOES Satellite Data
Daily Average X-ray Background
April 1989 - March 1990

Day	1989										1990		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
1	B9.2	C1.0	B8.2	B9.2	C1.0	C3.9	C1.3	C1.2	C1.6	C1.4	B9.5	C1.1	
2	C1.0	C1.0	C1.5	B9.4	B9.2	C2.5	C1.5	C1.4	C1.2	C1.1	B7.8	C1.1	
3	C1.1	B9.1	C1.4	C1.1	C1.0	C1.9	C1.6	C1.2	C1.1	C1.1	B8.9	B9.1	
4	C1.0	C1.6	C1.6	C1.1	C1.1	C1.9	C1.6	C1.3	C1.5	C1.1	B7.8	C1.0	
5	C1.0	C1.2	C1.5	B8.7	C1.8	C1.7	C1.3	C1.3	C1.1	C1.0	B7.7	B7.0	
6	B8.6	C1.1	C1.9	B8.2	C1.5	C2.3	C1.2	C1.7	C1.0	C1.0	C1.1	B7.5	
7	C1.0	C1.4	C1.9	B7.2	C1.5	C2.1	C1.2	C1.9	C1.5	---	B7.5	B7.4	
8	C1.3	C1.3	C3.0	B7.2	C1.1	C2.5	C1.0	C2.5	C1.4	B7.3	B6.1	B6.7	
9	B9.8	C1.3	C3.0	B7.0	C1.1	C2.3	C1.3	C2.9	C1.2	B6.2	B5.7	B5.4	
10	B8.1	C1.3	C2.5	B6.5	C1.4	C2.7	C1.0	C2.3	B8.9	B6.9	B5.2	B5.9	
11	C2.1	C1.0	C2.1	B6.8	C1.7	C2.3	C1.0	C1.7	B8.1	B7.3	B4.6	B8.5	
12	C1.1	C1.0	C2.0	B6.2	C2.7	C3.8	---	C1.7	B7.2	B7.5	B4.3	B5.8	
13	C1.2	B9.9	C2.3	B7.7	C2.0	C2.3	C2.7	C1.5	B7.3	B7.5	B4.0	B7.1	
14	C1.2	B9.5	C2.7	B7.0	C2.7	C1.9	C1.4	C1.8	B7.4	B6.7	B4.1	B8.8	
15	C1.1	B9.0	C3.3	B7.4	C4.3	C1.7	C1.4	C2.2	B6.3	B9.5	B4.2	C1.0	
16	C1.1	B7.8	C4.1	B7.1	C7.9	C1.9	C1.1	C1.7	B6.2	C1.0	B4.0	C1.2	
17	C1.4	B7.5	C2.7	B6.8	C3.5	C1.1	C1.2	C1.6	B6.8	C1.1	B5.9	B9.3	
18	C1.1	B7.2	C2.5	B7.8	C1.3	C1.1	C2.0	C1.6	B8.8	C1.2	B8.2	C1.3	
19	C1.0	B7.4	C2.5	B7.6	C1.0	C1.4	C3.2	C1.8	C1.1	C1.6	C1.2	C1.6	
20	B9.5	C1.3	C2.3	B7.0	C1.1	B8.9	C1.7	C1.4	B9.6	C1.9	C1.1	C1.1	
21	B9.0	C1.3	C3.4	B8.6	C1.0	B8.3	C1.6	C1.5	C1.2	C1.9	C1.2	C1.3	
22	C1.2	C1.7	C2.0	B7.6	C1.0	B8.9	---	C1.6	C1.5	C1.8	C1.0	C1.9	
23	C1.4	C1.9	C1.7	B7.4	C1.5	B8.6	C2.4	C1.3	C1.2	C1.4	C1.1	C1.4	
24	C1.4	C1.9	C1.1	B9.2	C1.5	B8.7	C1.8	C1.1	C1.4	C1.5	C1.0	C1.4	
25	C1.0	C1.6	B8.3	B9.2	C1.0	C1.1	---	C1.2	C2.2	C1.2	B9.8	C1.1	
26	B9.4	C1.2	B9.8	C1.0	B9.3	C1.5	C1.1	C1.3	C2.7	C1.4	B9.5	C1.7	
27	B7.4	B7.5	C1.0	B9.5	B9.8	C1.6	C1.4	C1.3	C2.7	C1.0	C1.2	C1.6	
28	B7.6	B7.9	C1.1	B8.8	B1.7	C1.8	C1.3	C1.1	C2.6	C1.0	C1.6	C1.8	
29	C1.0	B9.0	C1.2	C1.1	C2.7	C2.4	C1.4	C1.2	C2.7	C1.2		C1.3	
30	B8.4	B9.2	C1.1	C1.0	C1.5	C1.3	C1.4	C1.8	C2.5	C1.1		C1.2	
31		B9.7		C1.0	C1.6		C1.6		C1.8	C1.0		C1.0	

MASS EJECTIONS FROM THE SUN

MARCH 1990

Site	Mo	Day	— Observed UT —			Location		Freq or Wavelength	Kind of Event	
			Start	Max	End	RA*	R/Ro			
VORO	Mar	07	2325	2329	U 2343	310	0.6	H-alpha	SP	
KHAR	Mar	11	0944	E 0944	U 1007 D	233	1.00-1.10	H-alpha	S	
VORO	Mar	13	0033	0036	U 0058	065	0.5	H-alpha	SP	
BLN	Mar	18	[1125.8	1134.0			Meter	II	
SGMR	Mar	18		1127.0	1208.0			Meter	II	
SVTO	Mar	18		1128.0	1143.0			Meter	II	
ONDR	Mar	18		1222.1	1128.0			Meter	II	
LEAR	Mar	19	0442.0		0600.0			Meter	IV	
LEAR	Mar	19	0446.0		0512.0			Meter	II	
KHAR	Mar	20	1012	E 1013	U 1100 D	087-094	0.91	H-alpha	SP	
LEAR	Mar	22	0430.0		0437.0			Meter	II	
KHAR	Mar	22	0843	E	0900 D	292-298	1.00-1.03	H-alpha	S	
KHAR	Mar	22	0933	E	1025 D	292-298	1.00-1.03	H-alpha	S	
KHAR	Mar	22	1029	E 1030	U 1040 D	144-150	0.60	H-alpha	S	
KHAR	Mar	22	1101	E	1127 D	113	0.26	H-alpha	S	
VORO	Mar	24	[0258	0302	U 0310	198	0.5	H-alpha	SP
LEAR	Mar	24		0300.0		0305.0			Meter	II
ONDR	Mar	25	[0851.3		0952.0			Decimeter; meter	II
KHAR	Mar	25		0935	E	0948 D	232-235	1.00-1.06	H-alpha	S
VORO	Mar	26	0035	0037	U 0055	260	0.2	H-alpha	SP	
VORO	Mar	26	0155	0158	U 0215	340	0.2	H-alpha	SP	
VORO	Mar	26	0158	0230	U 0231 D	315	0.2	H-alpha	S	
VORO	Mar	26	0211	0213	U 0230	048	0.2	H-alpha	SP	
VORO	Mar	27	2246	2249	U 2302	312	0.6	H-alpha	SP	
ONDR	Mar	28	0757.5		0800.5			Meter	IV	
VORO	Mar	28	2323	2325	U 2333	205	0.9	H-alpha	SP	
KHAR	Mar	29	0840	E 0840	U 0908 D	224	0.84	H-alpha	S	
VORO	Mar	30	0157	0158	U 0200 D	271	1	H-alpha	SP	
KHAR	Mar	30	0732	E	0805 D	256	1.00-1.05	H-alpha	SP	
KHAR	Mar	30	0856	E	0906 D	254	1.00-1.03	H-alpha	S	
KHAR	Mar	30	0912	E	0923 D	255	1.00-1.03	H-alpha	S	
KHAR	Mar	30	0944	E	0955 D	254	1.00-1.03	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
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

REPORTING STATIONS
BLN = Bleien
KHAR = Kharkov
LEAR = Learmonth
ONDR = Ondrejov
SGMR = Sagamore Hill
SVTO = San Vito
VORO = Voroshilov

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
01	APR	0049	0300D	S17	E90	03	7.9	1				C	VORO		
01	BSL	0113	0130	N32	W90	02	22.0	1				C	VORO		
01	ADF	0132	0300D	S26	E16	03	2.3	1				C	VORO		
01	AFS	0257E	0911D	S13	E56	03	5.3		03	9	9	E	LEAR		
01	AFS	0259E	0911D	N30	E37	03	4.0		04	9	9	E	LEAR	5961	
01	ASR	0350E	0911D	S05	W90	02	22.5			9	9	E	LEAR	5952	
01	ASR	0700E	1320D	S03	E90	03	8.0			9	9	E	SVTO	5952	
01	AFS	0700E	1620D	N13	E11	03	2.1		03	7	9	E	SVTO	5960	
01	AFS	0700E	1620D	N33	E34	03	4.0		02	9	8	E	SVTO	5961	
01	ASR	0755E	1620D	S23	W90	02	22.5			9	9	E	SVTO		
01	ADF	0805E	1620D	S20	E06	03	1.8	2	12	9	9	E	SVTO	5955	
01	ADF	0820E	0911D	S17	W46	02	25.9	1	05	9	8	E	LEAR	5947	
01	ASR	1131E	1620D	S09	E90	03	8.2			9	9	E	SVTO		
01	DSD	1215E	1324D	N33	E30	03	3.9		07	9	9	E	SVTO	5961	Flare Associated
01	DSD	1310	1358D	S20	W47	02	26.0		13	9	9	E	SVTO	5947	Flare Associated
01	ASR	1636E	2137D	S15	E90	03	8.5			9	9	E	RAMY		
01	ADF	1659E	2352D	S13	W59	02	25.3	2	08	9	9	E	HOLL	5945	
01	AFS	1721E	2137D	S36	W65	02	24.6		04	9	9	E	RAMY	5942	
01	AFS	1723E	2137D	S16	W51	02	25.9		03	9	9	E	RAMY	5947	
01	DSD	1725E	2034D	S14	W58	02	25.4		05	9	9	E	RAMY	5945	
01	AFS	1735E	2137D	N13	E05	03	2.1		02	9	9	E	RAMY	5960	
01	ADF	1737E	2137D	N24	W11	02	28.9	1	11	9	9	E	RAMY	5959	
01	AFS	1740E	2137D	N32	E29	03	4.0		03	9	9	E	RAMY	5961	
01	SSB	1818		402	W38	03	1.6			0	0	E	RAMY		
01	AFS	1915E	0043D	S36	W65	02	24.7		02	9	8	E	HOLL	5942	
01	AFS	1922E	0043D	S15	E47	03	5.4		02	9	9	E	HOLL	5963	
01	AFS	1924E	0043D	S17	W53	02	25.9		02	9	9	E	HOLL	5947	
01	AFS	1925E	0043D	N17	W48	02	26.3		03	9	9	E	HOLL	5948	
01	AFS	1928E	0043D	S20	E19	03	3.3		02	9	9	E	HOLL	5958	
01	AFS	1930E	0043D	N30	E28	03	4.0		03	9	9	E	HOLL	5961	
01	SSB	1935		403	W40	03	1.6			0	0	E	HOLL		
01	ASR	2034E	2137D	N28	E88	03	8.7			9	9	E	RAMY		
01	APR	2328	0300D	N35	E90	03	9.2	1				C	VORO		
01	ADF	2328	0300D	S29	W23	02	28.2	1				C	VORO		
01	APR	2342	0300D	N35	E90	03	9.2	1				C	VORO		
01	APR	2342	0300D	S20	E90	03	8.9	1				C	VORO		
01	ADF	2343	0300D	S49	E35	03	4.9	1				C	VORO		
01	BSD	2359E	0043D	S13	E81	03	8.1		05	7	9	E	HOLL		
02	ADF	0000	0300D	S11	W60	02	25.6	1				C	VORO		
02	ASR	0020E	0302D	S11	E84	03	8.3			9	9	E	LEAR		
02	ADF	0050E	0302D	N28	E24	03	3.9	2	05	9	9	E	LEAR	5961	
02	ADF	0050E	0302D	S19	W03	03	1.8	1	28	9	9	E	LEAR	5955	
02	BSD	0103E	0255D	N30	E24	03	3.9		03	9	9	E	LEAR	5961	
02	AFS	0107E	0302D	S13	E44	03	5.4		03	9	9	E	LEAR	5963	
02	AFS	0712E	1608D	S12	E40	03	5.3		02	6	7	E	SVTO	5963	
02	ASR	0714E	1608D	S14	W90	02	23.6			9	9	E	SVTO	5941	
02	DSD	0715E	0846D	N32	E24	03	4.2		06	9	9	E	SVTO	5961	
02	AFS	0717E	1608D	N30	E22	03	4.0		02	8	5	E	SVTO	5961	
02	AFS	0736E	1608D	S18	W60	02	25.8		02	9	9	E	SVTO	5947	
02	AFS	0737E	1608D	S38	W70	02	24.7		03	9	9	E	SVTO	5942	
02	BSD	0755E	0815	N31	E76	03	8.3		03	9	9	E	SVTO	5964	Flare Associated
02	DSD	0755E	0826	S20	E10	03	3.1		03	9	9	E	SVTO	5958	
02	ADF	0910E	1240D	S24	W07	03	1.8	2	10	9	9	E	SVTO	5955	
02	ADF	1350E	2304D	N28	E16	03	3.8	1	04	9	9	E	HOLL	5961	
02	AFS	1350E	2304D	N30	E18	03	4.0		02	9	9	E	HOLL	5961	
02	DSD	1414E	2214D	S23	E07	03	3.1		04	9	9	E	RAMY	5958	
02	AFS	1416E	2214D	S14	E37	03	5.4		02	9	9	E	RAMY	5963	
02	DSD	1432E	2214D	S12	E77	03	8.4		04	9	9	E	RAMY		
02	AFS	1438E	2214D	S36	W73	02	24.8		02	9	9	E	RAMY	5942	
02	DSD	1543E	2304D	S18	W67	02	25.6		06	9	9	E	HOLL	5947	
02	DSD	1547E	2005D	S13	E76	03	8.4		07	9	9	E	HOLL	5965	
02	ADF	1755E	0348D	N30	E14	03	3.8		08	9	9	E	PALE	5961	
02	AFS	1755E	0348D	N32	E16	03	4.0		03	9	9	E	PALE	5961	
02	BSD	1755E	0348D	N33	E85	03	9.5		20	9	8	E	PALE	5964	
02	AFS	1924E	2214D	N28	E67	03	8.0		03	9	9	E	RAMY	5964	
02	SSB	1929		403	W53	03	2.5			0	0	E	RAMY		423 W73
02	AFS	1929E	2214D	S12	E74	03	8.4		02	9	9	E	RAMY	5965	
02	ADF	1950E	2214D	N27	E14	03	3.9	1	08	9	9	E	RAMY	5961	
02	ASR	1953E	2359D	S13	E90	03	9.6			9	9	E	HOLL		

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
02	AFS	2005E	2304D	S11	E73	03	8.3		04	9	9	E	HOLL	5965	
02	SSB	2010		405	W56	03	2.4			0	0	E	HOLL		413 W64
03	AFS	0806E	0000	N34	E10	03	4.1		02	9	9	E	SVTO	5961	
03	ADF	0806E	1459D	N28	E05	03	3.7	1	05	9	9	E	SVTO	5961	
03	DSD	1038E	1117D	N30	E06	03	3.9		04	9	9	E	SVTO	5961	
03	ADF	1116E	2025D	S31	E39	03	6.5	1	21	9	9	E	RAMY		
03	DSD	1123E	1359D	N31	E11	03	4.3		03	9	9	E	RAMY	5961	
03	ASR	1137E	1524D	S36	W86	02	24.7			9	9	E	RAMY	5942	
03	SSB	1158		402	W62	03	3.3			0	0	E	RAMY		
03	SDF	1312E	1240D	N39	E43	03	7.0		08	0	0	E	RAMY		
03	SDF	1312E	1240D	S43	W59	02	26.8		11	0	0	E	RAMY		
03	AFS	1402E	0000	N30	E55	03	7.9		02	9	9	E	SVTO	5964	
03	AFS	1416E	0000	S19	W01	03	3.5		02	9	9	E	SVTO	5958	
03	AFS	1518E	1718D	S14	E22	03	5.3		02	9	9	E	RAMY	5963	
03	EPL	2005	2025	S03	W90	02	25.2	2		9	9	E	RAMY		
03	APR	2005E	2025	S03	W90	02	25.2	2		9	9	E	RAMY		
04	AFS	0630E	1631D	S10	E54	03	8.3		02	9	9	E	SVTO	5965	
04	ASR	0650E	1631D	S13	W90	02	25.6			9	9	E	SVTO	5947	
04	ASR	0740E	1631D	S38	W90	02	25.1			7	7	E	SVTO	5942	
04	AFS	0750E	1631D	N30	E47	03	8.0		02	9	9	E	SVTO	5964	
04	ADF	0810E	1045D	S13	W29	03	2.1	1	09	9	9	E	SVTO	5955	
04	APR	0830E	0925D	S14	W30	03	2.1	1				V	KHAR		
04	APR	0847E	0906D	S27	E73	03	10.0	1				V	KHAR		
04	ASR	1145E	1924D	N14	W90	02	25.8			9	9	E	RAMY	5948	
04	ADF	1145E	1924D	S10	E53	03	8.5	1	05	9	9	E	RAMY	5965	
04	AFS	1145E	1924D	S12	E51	03	8.3		03	8	6	E	RAMY	5965	
04	ASR	1145E	1924D	S17	W84	02	26.2			9	9	E	RAMY	5947	
04	ASR	1145E	1924D	S37	W90	02	25.3			9	9	E	RAMY	5942	
04	ASR	1230E	1631D	N14	W90	02	25.8			9	9	E	SVTO	5948	
04	ADF	1253E	1407D	S23	W27	03	2.4	1	06	9	9	E	SVTO	5955	
04	ASR	1420E	0020D	S19	W90	02	25.8			9	9	E	HOLL	5947	Flare Associated
04	ASR	1457E	0020D	N14	W90	02	25.9			7	7	E	HOLL	5948	
04	APR	1459E	0020D	N28	W90	02	25.7	1		8	8	E	HOLL		
04	APR	1505E	0020D	S46	W90	02	25.2	1		8	8	E	HOLL		
04	AFS	1529E	0020D	S12	E50	03	8.4		03	9	9	E	HOLL	5965	
04	SSB	1548		340	W15	03	1.6			0	0	E	HOLL		366 W41 403 W78
04	ADF	1935E	0020D	N34	W10	03	4.0	1	05	9	9	E	HOLL	5961	
04	AFS	2311E	1025D	S10	E44	03	8.3		04	9	9	E	LEAR	5965	
05	ADF	0231E	1025D	N27	W15	03	3.9	1	20	9	9	E	LEAR	5961	
05	ADF	1133E	1617D	S11	W49	03	1.8	2	10	9	9	E	SVTO	5955	
05	ADF	1150E	1157D	S23	W41	03	2.3	1	12	9	9	E	RAMY	5955	
05	AFS	1150E	2136D	S13	E38	03	8.4		03	9	9	E	RAMY	5965	
05	ASR	1356E	1435D	N20	W90	02	26.8			9	9	E	RAMY		
05	BSL	1404E	1411	N18	W90	02	26.8			9	9	E	SVTO		
05	ASR	1411	1422	N18	W90	02	26.8			9	9	E	SVTO		
05	DSD	1714E	0045D	S12	E30	03	8.0		02	8	8	E	HOLL	5965	
05	AFS	1714E	0045D	S13	E35	03	8.3		02	9	9	E	HOLL	5965	
05	ADF	1719E	0045D	S20	W54	03	1.6	2	39	9	9	E	HOLL	5955	
05	SSB	1905		355	W45	03	1.2			0	0	E	HOLL		
06	AFS	0121E	1037D	S12	E30	03	8.3		03	9	9	E	LEAR	5965	
06	AFS	0127E	1037D	S15	W13	03	5.1		02	9	9	E	LEAR	5963	
06	AFS	0630E	1635D	S11	E28	03	8.4		02	8	7	E	SVTO	5965	
06	DSD	0630E	1635D	S15	W17	03	5.0		03	9	9	E	SVTO	5963	
06	ASR	0812E	1635D	S10	W90	02	27.7			9	5	E	SVTO		
06	DSD	1117E	2132D	S15	W18	03	5.1		08	9	9	E	RAMY	5963	
06	ADF	1131E	2132D	N15	E58	03	10.9	1	06	9	9	E	RAMY	5966	
06	ADF	1142E	1953D	S13	W58	03	2.1	1	08	9	9	E	RAMY	5955	
06	SDF	1417E	1420D	S33	W03	03	6.3	3	10	0	0	E	RAMY		
06	ADF	1450E	0054D	N28	W51	03	2.6	2	10	9	9	E	HOLL	5959	
06	DSD	1455E	2105D	S15	W25	03	4.7		03	9	9	E	HOLL	5963	
06	DSD	1643E	2146D	N27	E15	03	7.9		04	9	9	E	HOLL	5964	
06	SDF	1722E	1724D	S10	E10	03	7.5		05	0	0	E	HOLL		
06	DSD	1901E	0243D	S15	W28	03	4.7		03	9	9	E	PALE	5963	
06	DSD	1908E	2144D	S13	W24	03	5.0		07	9	9	E	HOLL	5963	
06	AFS	2311E	0951D	S12	W28	03	4.8		05	9	9	E	LEAR	5963	
06	SDF	2324E	1400D	S28	W12	03	6.0		06	0	0	E	HOLL		

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
07	ADF	0114E	0951D	S14	W26	03	5.1	2	03	9	9	E	LEAR	5963	
07	DSD	0643E	1058D	S12	E14	03	8.3		02	9	9	E	SVTO	5965	
07	AFS	0643E	1620D	S14	W29	03	5.1		02	9	9	E	SVTO	5963	
07	ADF	0755E	1234D	N28	W55	03	3.0	1	15	9	9	E	SVTO	5959	
07	DSD	1035E	1120D	S13	W36	03	4.7		04	9	9	E	SVTO	5963	
07	DSD	1139E	1152D	S13	W35	03	4.8		06	9	9	E	SVTO	5963	
07	AFS	1218E	2027D	S14	W33	03	5.0		03	9	9	E	RAMY	5963	
07	DSD	1224E	1358D	S13	E15	03	8.6		02	9	9	E	RAMY	5965	
07	SSB	1230		343	W56	03	3.8			0	0	E	RAMY		
07	ADF	1410E	1620D	N32	W73	03	1.8	1	10	9	9	E	SVTO	5959	
07	AFS	1415E	1950D	N11	E44	03	10.9		02	8	5	E	HOLL	5966	
07	DSD	1422E	1708D	N29	E00	03	7.6		01	9	9	E	HOLL	5964	
07	AFS	1426E	0059D	S14	W35	03	4.9		04	9	9	E	HOLL	5763	
07	DSD	1430E	1608D	S15	W35	03	4.9		03	9	9	E	SVTO	5963	
07	APR	1512E	1620D	N26	E90	03	14.6	2		9	9	E	SVTO		
07	DSD	1709E	2040D	S13	W36	03	5.0		03	9	9	E	HOLL	5963	
07	DSD	1709E	1952D	N28	W02	03	7.5		02	9	9	E	RAMY	5964	
07	ADF	1717E	2027D	N40	E53	03	12.0	1	23	9	9	E	RAMY		
07	ADF	1724E	1950D	S09	E08	03	8.3	1	04	9	9	E	HOLL	5965	
07	SSB	1956		337	W53	03	4.6			0	0	E	HOLL		
07	ADF	2020E	2027D	S12	E05	03	8.2	1	10	9	9	E	RAMY	5965	
07	ASR	2029E	2130D	N27	E90	03	14.9			9	9	E	HOLL		
07	DSD	2325	2343	N32	W07	03	7.4	1				C	VORO		
07	DSD	2338E	0059D	N29	W05	03	7.6		08	9	9	E	HOLL	5964	
07	ADF	2352	0300D	S45	E75	03	14.2	1				C	VORO		
08	APR	0056E	0300D	N24	E90	03	15.0	1				C	VORO		
08	ADF	0242	0300D	S29	E28	03	10.3	1				C	VORO		
08	AFS	0456E	0940D	S14	W42	03	5.0		03	8	6	E	LEAR	5963	
08	AFS	0458E	0940D	N28	W06	03	7.7		03	7	6	E	LEAR	5964	
08	AFS	0742E	1636D	S14	W46	03	4.8		02	9	9	E	SVTO	5964	
08	AFS	1123E	2202D	S14	W47	03	4.9		04	9	9	E	RAMY	5963	
08	DSD	1126E	1322D	N31	W56	03	4.0		03	9	9	E	RAMY	5961	
08	AFS	1127E	2000D	N28	W12	03	7.5		02	9	9	E	RAMY	5964	
08	ASR	1129	1322D	N19	W90	03	1.6			9	9	E	RAMY	5960	
08	SSB	1141		317	W42	03	7.1			0	0	E	RAMY		
08	BSD	1145E	1159	S11	W07	03	8.0		05	9	9	E	SVTO	5965	
08	DSD	1145E	1159	S14	W02	03	8.3		03	9	9	E	SVTO	5965	
08	ASR	1145E	1636D	N17	W90	03	1.6			6	6	E	SVTO	5960	
08	DSD	1159	1204	S11	W07	03	8.0		05	9	9	E	SVTO	5965	
08	ADF	1314E	2202D	S15	W49	03	4.8	1	04	9	9	E	RAMY	5963	
08	DSD	1319E	2030D	N27	W09	03	7.8		02	9	9	E	RAMY	5964	
08	ADF	1345E	1523D	S10	W05	03	8.2	1	06	9	8	E	RAMY	5965	
08	DSD	1410E	2145D	N27	W09	03	7.9		02	9	9	E	HOLL	5964	
08	AFS	1435E	0020D	S14	W47	03	5.0		02	7	7	E	HOLL	5963	
08	DSD	1504E	1547D	N28	W15	03	7.4		06	9	9	E	SVTO	5964	
08	DSD	1520E	2023D	N29	W15	03	7.5		03	9	9	E	RAMY	5964	
08	DSD	1522E	1958D	S10	W08	03	8.0		03	9	9	E	RAMY	5965	
08	ASR	2040E	2057D	N29	E90	03	15.9			9	9	E	RAMY		
09	SDF	0029E	1423D	S62	E30	03	11.7		80	0	0	E	HOLL		
09	ADF	0730E	1240D	N45	E26	03	11.5					V	ATHN		
09	ADF	0730E	1240D	S12	E55	03	13.4					V	ATHN		
09	APR	0820E	1320D	S19	W90	03	2.5	2		9	9	E	SVTO	5958	
09	ADF	0821E	1320D	S14	W58	03	5.0	1	07	9	9	E	SVTO	5963	
09	APR	1310E	1955D	S15	W90	03	2.7	1		9	9	E	RAMY	5958	
09	ADF	1312E	1955D	S13	W61	03	4.9	1	04	9	9	E	RAMY	5963	
09	SDF	1320E	1003D	S61	E03	03	9.8		35	0	0	E	SVTO		
09	APR	1426E	2358D	S13	W90	03	2.8	1		9	9	E	HOLL		
09	ADF	1431E	2358D	S13	W61	03	5.0	1	05	9	9	E	HOLL	5963	
09	AFS	1433E	2358D	S24	E48	03	13.3		02	9	9	E	HOLL		
09	ASR	1434E	2358D	N31	E90	03	16.7			9	9	E	HOLL		
09	ASR	1443E	2358D	N07	W90	03	2.9			9	9	E	HOLL		
09	ASR	1640E	2358D	N25	W90	03	2.7			9	9	E	HOLL	5961	
09	DSD	1906E	2358D	S12	W25	03	7.9		07	9	9	E	HOLL	5965	
09	ASR	2055E	2323D	N09	W90	03	3.1			9	9	E	PALE		
09	ASR	2130E	2358D	N30	E85	03	16.6			9	9	E	PALE	5969	
09	ASR	2155E	0121D	N30	W90	03	2.8			9	9	E	PALE	5961	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP No	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
10	ASR	0531E	1031D	N27	W90	03	3.2			9	9	E	LEAR	5961	
10	BSD	0535E	1031D	N30	E73	03	16.0		03	9	9	E	LEAR	5969	
10	AFS	0920E	1031D	S08	E46	03	13.8		02	9	9	E	LEAR		
10	AFS	1124E	2215D	N25	E46	03	14.0		03	9	9	E	RAMY		
10	ASR	1124E	2215D	N28	W90	03	3.4			9	9	E	RAMY	5961	
10	AFS	1124E	2215D	S06	E43	03	13.7		02	9	9	E	RAMY		
10	ASR	1126E	1310D	N29	W90	03	3.4			9	9	E	SVTO	5961	
10	AFS	1127E	1310D	S07	E45	03	13.8		02	9	9	E	SVTO		
10	AFS	1128E	1310D	N27	E46	03	14.1		02	9	9	E	SVTO		
10	SDF	1320E	1003D	S61	E03	03	10.8		35	0	0	E	SVTO		
10	DSD	1400E	2215D	N31	E71	03	16.2		04	9	9	E	RAMY	5969	
10	ADF	1412E	2215D	S15	W77	03	4.8	1	05	9	9	E	RAMY	5963	
10	AFS	1725E	0332D	N25	E42	03	14.0		01	9	9	E	PALE	5971	
10	AFS	1730E	0332D	S07	E40	03	13.7		01	9	9	E	PALE	5970	
10	ASR	2219E	2357D	N31	W90	03	3.8			8	8	E	HOLL	5961	
10	ADF	2222E	2345D	N25	W40	03	7.8	2	20	9	9	E	HOLL	5964	
10	APR	2230E	2357D	N28	W90	03	3.9	1		9	9	E	HOLL	5961	
10	ADF	2250E	2357D	S28	E58	03	15.5	1	18	9	9	E	HOLL		
11	ADF	0650E	1632D	N33	E56	03	15.7	1	05	9	9	E	SVTO	5969	
11	BSL	0942E	1007D	S37	W90	03	4.1	1				V	KHAR		
11	EPL	1248E	1341D	N25	W90	03	4.6	2		9	9	E	SVTO	5961	
11	APR	1310E	1341D	N35	E90	03	18.7	2		9	9	E	SVTO	5969	
11	AFS	1434E	1504D	N30	E56	03	16.0		03	9	9	E	RAMY	5969	
11	AFS	1434E	1504D	S09	E29	03	13.8		02	9	9	E	RAMY	5970	
11	ASR	1434E	1504D	S13	W90	03	4.8			9	9	E	RAMY	5963	
11	ASR	1508E	1807D	S14	W90	03	4.8			9	9	E	HOLL	5963	
11	ADF	1514E	1808D	N30	W54	03	7.4	1	05	9	9	E	HOLL	5964	
11	APR	1514E	1931D	S19	W90	03	4.8	1		9	9	E	HOLL	5963	
11	ADF	1529E	1810D	S26	E30	03	14.0	1	07	9	9	E	HOLL	5968	
11	BSD	1530E	1929D	N31	E60	03	16.4		04	9	9	E	HOLL	5969	Flare Associated
11	DSD	1541E	2208D	N32	E51	03	15.7		05	9	9	E	HOLL	5969	
11	APR	1545E	1701D	N29	W90	03	4.6	2		9	9	E	HOLL		
11	EPL	1554E	1632D	N30	W90	03	4.6	2		9	9	E	SVTO	5961	
11	AFS	1954E	0101D	S09	E26	03	13.8		02	7	7	E	HOLL	5970	
11	AFS	1955E	0101D	N25	E29	03	14.1		02	8	9	E	HOLL	5971	
11	SDF	2114E	1338D	N20	W03	03	11.6		22	0	0	E	HOLL		
11	DSD	2208E	0101D	N31	E57	03	16.4		09	9	9	E	HOLL	5969	Flare Associated
12	ADF	0006E	0044D	S40	E10	03	12.8	1				C	VORO		
12	APR	0006E	0044D	S50	E90	03	19.6	1				C	VORO		
12	BSL	0012	0035	S15	W90	03	5.2	1				C	VORO		
12	AFS	0055E	1028D	N30	E52	03	16.1		02	7	5	E	LEAR	5969	
12	AFS	0320E	1028D	N10	W17	03	10.9		02	6	4	E	LEAR	5966	
12	ADF	0605E	1235D	N35	W15	03	11.0					V	ATHN		
12	AFS	0701E	1300D	S08	E21	03	13.9		02	5	4	E	SVTO	5970	
12	DSD	0752E	0936D	N31	E51	03	16.3		03	9	9	E	SVTO	5969	Flare Associated
12	AFS	1530E	1842D	S26	W39	03	9.6		02	9	9	E	HOLL		
12	AFS	1626E	0035D	N10	W24	03	10.9		04	9	9	E	HOLL	5966	
12	ADF	1851E	2238D	N30	E44	03	16.2	2	06	9	9	E	HOLL	5969	
12	ADF	1950E	0420D	N30	E44	03	16.3	2	06	9	9	E	PALE	5969	
12	SSB	2104		272	W55	03	19.1			0	0	E	HOLL		
12	ADF	2339	0300D	N26	E19	03	14.5	1				C	VORO		
12	ADF	2358	0300D	S35	W08	03	12.3	1				C	VORO		
12	APR	2359	0300D	N16	E90	03	19.8	1				C	VORO		
13	ADF	0003	0300D	S11	E03	03	13.2	1				C	VORO		
13	APR	0011	0300D	N70	W90	03	4.8	1				C	VORO		
13	DSD	0033	0058	N19	E13	03	14.0	2				C	VORO		
13	APR	0051	0300D	S35	E90	03	20.2	1				C	VORO		
13	APR	0110	0300D	S02	W09	03	12.4	1				C	VORO		
13	ASR	0640E	1030D	S33	W90	03	6.1			9	9	E	LEAR		
13	ASR	1110E	1318D	S32	E90	03	20.6			9	9	E	SVTO		
13	ADF	1135E	1318D	N31	E36	03	16.3	1	05	9	9	E	SVTO	5969	
13	SSB	1255		212	W04	03	14.4			0	0	E	SVTO		
13	ASR	1305E	1318D	S18	E90	03	20.4			9	9	E	SVTO		
13	APR	1312E	1318D	S36	E90	03	20.8	1		9	9	E	SVTO		
13	ASR	1412E	1740D	S20	E90	03	20.5			9	7	E	HOLL		
13	ASR	1412E	1740D	S35	E86	03	20.5			9	9	E	HOLL		

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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
13	ADF	1509E	2317D	N27	E10	03 14.4	1	07	9	8	E	HOLL	5971	
13	SSB	1612		212	W06	03 14.6			0	0	E	HOLL		
13	AFS	1950E	0432D	N18	E01	03 13.9		02	9	9	E	PALE	5967	
13	DSD	1950E	0432D	N18	E02	03 14.0		02	9	9	E	PALE	5967	
13	ASR	2025E	0432D	S33	E88	03 20.8			9	9	E	PALE	5974	
13	ASR	2202E	0432D	N30	W87	03 7.1			9	9	E	PALE	5964	
14	BSD	0106	0949D	S33	E88	03 21.0		10	9	9	E	LEAR	5974	
14	ASR	0400E	0949D	N28	W90	03 7.1			9	9	E	LEAR	5964	
14	EPL	0730E	0900D	S31	E90	03 21.4	1				P	BUCH		
14	AFS	1305E	1505D	N34	E20	03 16.1		02	9	9	E	SVTO	5969	
14	SSB	1310		214	W19	03 15.6			0	0	E	SVTO		
14	ASR	1315E	1505D	N17	W90	03 7.7			9	9	E	SVTO		
14	AFS	1335E	1505D	N17	W09	03 13.9		02	7	7	E	SVTO	5967	
14	APR	1620E	2020D	N26	E90	03 21.7	1		9	9	E	HOLL		
14	AFS	1625E	0042D	N18	W07	03 14.1		03	8	8	E	HOLL	5967	
14	ADF	1637E	0042D	N30	E09	03 15.4	1	06	8	9	E	HOLL	5969	
14	ASR	1734E	1819D	N19	W85	03 8.2			9	9	E	RAMY		
14	ASR	1740E	0414D	N18	E90	03 21.6			9	9	E	PALE		
14	ADF	1740E	0414D	N25	E11	03 15.6		12	9	9	E	PALE	5969	
14	APR	1740E	0414D	N28	E90	03 21.8			9	9	E	PALE		
14	DSD	1755E	1819D	N27	W08	03 14.1		07	9	9	E	RAMY	5971	Flare Associated
14	SSB	1810		214	W22	03 15.8			0	0	E	HOLL		224 W32 248 W56
14	SSB	1838		213	W21	03 15.8			0	0	E	RAMY		
14	SSB	1920		214	W23	03 15.9			0	0	E	PALE		
14	CRN	2020E	2351	N18	E90	03 21.7		05	8	9	E	HOLL		
14	DSD	2118	2331D	N33	E13	03 15.9		04	9	9	E	HOLL	5969	
14	DSD	2341	0002	N33	E12	03 15.9		04	9	9	E	HOLL	5969	
15	SSB	0023		215	W26	03 16.2			0	0	E	LEAR		251 W36
15	ADF	0530E	1023D	S40	E76	03 21.4	3	07	9	9	E	LEAR	5974	
15	ASR	0532E	1023D	N17	W90	03 8.4			9	9	E	LEAR		
15	ASR	0820E	1023D	N15	E73	03 20.9			9	9	E	LEAR		
15	DSD	1117E	1642D	N33	E09	03 16.2		02	9	9	E	RAMY	5969	
15	AFS	1118E	2115D	S36	E63	03 20.5		03	9	9	E	RAMY	5974	
15	ADF	1122E	1321D	S37	E62	03 20.5	1	15	9	9	E	RAMY	5974	
15	ADF	1127E	2115D	N36	E13	03 16.5	1	06	9	9	E	RAMY	5969	
15	ASR	1216E	2010D	N12	E77	03 21.3			9	9	E	RAMY	5978	
15	DSD	1355	2119D	S35	E59	03 20.3		04	9	9	E	HOLL	5974	Flare Associated
15	DSD	1515E	2119D	N33	E05	03 16.0		03	9	9	E	HOLL	5969	
15	ADF	1515E	2119D	N36	E10	03 16.4	1	06	9	9	E	HOLL	5969	
15	SSB	1520		214	W34	03 16.7			0	0	E	HOLL		225 W45
15	AFS	1625E	0042D	N18	W07	03 15.1		03	8	8	E	HOLL	5967	
15	ADF	1637E	0042D	N30	E09	03 16.4	1	06	8	9	E	HOLL	5969	
15	ADF	1732E	0440D	N24	W19	03 14.3		06	9	8	E	PALE	5967	
15	DSD	1732E	0440D	N36	E04	03 16.0		02	9	9	E	PALE	5969	
15	DSD	1732E	0440D	S37	E63	03 20.8		04	9	9	E	PALE	5974	
16	ADF	0000	0300D	S37	W45	03 12.4	1				C	VORO		
16	ADF	0005	0300D	N50	W38	03 12.8	1				C	VORO		
16	AFS	0014E	1026D	S36	E59	03 20.7		04	9	9	E	LEAR	5974	
16	APR	0014	0300D	S26	W90	03 9.0	1				C	VORO		
16	ADF	0018	0300D	N25	W54	03 11.8	1				C	VORO		
16	ADF	0038	0300D	S23	E19	03 17.5	1				C	VORO		
16	APR	0115	0300D	N68	E90	03 24.2	1				C	VORO		
16	APR	0119	0300D	N39	E25	03 18.1	1				C	VORO		
16	SSB	0319		216	W42	03 17.4			0	0	E	LEAR		226 W52
16	AFS	0540E	1026D	N39	E36	03 19.1		03	9	9	E	LEAR	5976	
16	ADF	0826E	0840D	S34	E47	03 20.1	1				V	KHAR		
16	ADF	1120E	1134D	S33	E61	03 21.3	1				V	KHAR		
16	ADF	1157E	2212D	N18	E63	03 21.3	1	10	9	9	E	RAMY	5978	
16	AFS	1157E	2212D	S34	E49	03 20.4		03	9	9	E	RAMY	5974	
16	DSD	1157E	2212D	S34	E54	03 20.8		08	9	9	E	RAMY	5974	
16	SSB	1402		170	W02	03 21.8			0	0	E	HOLL		216 W48 227 W59
16	ADF	1712E	0103D	N31	W10	03 15.9	2	05	9	9	E	HOLL	5969	
16	DSD	1728	0103D	S33	E54	03 21.0		04	9	9	E	HOLL	5974	
16	AFS	1730E	0103D	S18	E10	03 17.5		02	9	9	E	HOLL	5977	
16	DSD	1738E	0428D	N34	W06	03 16.2		03	9	7	E	PALE	5969	
16	AFS	1738E	0428D	N41	E29	03 19.1		05	9	9	E	PALE	5976	
16	DSD	1738E	0428D	S11	E38	03 19.6		03	9	8	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
16	DSD	1738E	0428D	S34	E54	03 21.0		03	9	9	E	PALE	5974	
16	ASR	2114E	0428D	S13	E90	03 23.7			9	9	E	PALE		
16	ASR	2143E	0428D	S31	E90	03 24.0			9	9	E	PALE		
16	DSD	2145E	2313D	N34	W14	03 15.8		02	9	9	E	HOLL	5969	
16	ASR	2218E	0103D	S33	E90	03 24.1			9	9	E	HOLL		
16	ADF	2233E	0103D	N38	E10	03 17.7	1	08	9	9	E	HOLL	5979	
16	ADF	2325	0300D	N05	W07	03 16.4	1				C	VORO		
16	ADF	2330	0300D	S38	W57	03 12.4	1				C	VORO		
16	BSL	2330	2354	S33	E90	03 24.1	1				C	VORO		
16	APR	2344E	0300D	N43	W90	03 9.6	1				C	VORO		
17	BSL	0010	0050	S38	E90	03 24.3	1				C	VORO		
17	BSL	0021	0048	S33	E90	03 24.2	1				C	VORO		
17	APR	0030	0300D	S12	E90	03 23.8	1				C	VORO		
17	ASR	0050E	0840D	S32	E90	03 24.1			9	9	E	LEAR		
17	BSL	0110	0130	S33	E90	03 24.2	1				C	VORO		
17	BSL	0148	0213	S12	E90	03 23.8	1				C	VORO		
17	BSL	0245	0300D	S25	E90	03 24.1	1				C	VORO		
17	BSL	0245	0300D	S38	E90	03 24.4	1				C	VORO		
17	ADF	0555E	1628D	N30	W14	03 16.1	1	05	9	9	E	SVTO	5969	
17	DSD	0558E	1004	S35	E48	03 21.1		06	9	9	E	SVTO	5974	
17	ADF	0612E	1258D	N29	W38	03 14.3	1	10	9	9	E	SVTO	5971	
17	DSD	0650E	0708D	S33	E43	03 20.7		03	9	9	E	SVTO	5974	
17	DSD	0705E	0752D	N33	W17	03 15.9		07	9	9	E	SVTO	5969	
17	DSD	0809	0955D	N33	W17	03 16.0		10	9	9	E	SVTO	5969	
17	DSD	1030E	1406D	S35	E46	03 21.1		05	9	9	E	SVTO	5974	
17	BSD	1053E	1130D	N20	E75	03 23.2		05	9	9	E	SVTO		
17	SSB	1138		171	W15	03 22.8			0	0	E	RAMY		215 W59
17	ASR	1138E	1335D	N19	E82	03 23.7			9	9	E	RAMY		
17	ADF	1138E	2210D	S37	E33	03 20.1	1	08	9	9	E	RAMY	5974	
17	DSD	1138E	2210D	S37	E38	03 20.5		04	9	9	E	RAMY	5974	
17	SDF	1257E	1322D	S22	W18	03 16.1		09	0	0	E	RAMY		
17	AFS	1430E	1800D	S12	E25	03 19.5		03	9	9	E	HOLL	5981	
17	ASR	1439E	1612D	N12	W84	03 11.3			9	9	E	RAMY	5966	
17	AFS	1451E	0040D	N18	E50	03 21.4		02	9	9	E	HOLL	5978	
17	ADF	1453E	1956D	N22	E54	03 21.8	1	05	9	9	E	HOLL	5978	
17	ASR	1501E	0040D	S34	E90	03 24.8			9	9	E	HOLL		
17	ASR	1505E	0040D	S14	E90	03 24.4			9	9	E	HOLL		
17	CAP	1505E	1719D	S06	E90	03 24.4		02	9	9	E	HOLL		
17	ADF	1524E	0040D	N32	W18	03 16.2	1	04	9	9	E	HOLL	5969	
17	DSD	1534E	1537D	S35	E42	03 21.0		05	9	9	E	HOLL	5974	
17	SDF	1628E	0542D	N35	W24	03 15.8		05	0	0	E	SVTO	5969	
17	DSD	1756E	2222D	N32	W22	03 16.0		03	9	9	E	PALE	5969	
17	DSD	1759E	2222D	S35	E42	03 21.1		03	9	9	E	PALE	5974	
17	SSB	1855		173	W21	03 23.4			0	0	E	HOLL		216 W64
18	BSL	0007	0030	S36	E90	03 25.2	1				C	VORO		
18	ADF	0007	0300D	N04	W22	03 16.4	1				C	VORO		
18	APR	0007	0300D	N43	W90	03 10.6	1				C	VORO		
18	SSB	0014		216	W67	03 19.4			0	0	E	PALE		
18	APR	0022	0252	S15	E90	03 24.8	1				C	VORO		
18	APR	0048	0300D	N43	W90	03 10.6	1				C	VORO		
18	EPL	0122	0300D	S32	E90	03 25.2	1				C	VORO		
18	DSD	0534E	0802D	N29	W27	03 16.1		06	9	9	E	SVTO	5969	Flare Associated
18	DSD	0630E	0855D	N17	E40	03 21.3		03	9	9	E	SVTO	5978	Flare Associated
18	ASR	0630E	0855D	S32	E90	03 25.4			9	9	E	SVTO	5983	
18	ADF	0802E	1638D	N32	W28	03 16.1	1	07	9	9	E	SVTO	5969	
18	AFS	0816E	1638D	S35	E35	03 21.1		02	9	9	E	SVTO	5974	
18	DSD	1055E	1927D	S33	E75	03 24.4		08	9	9	E	RAMY	5983	
18	BSD	1055	1126D	S32	E73	03 24.2		08	9	9	E	SVTO	5983	Flare Associated
18	ADF	1103E	2129D	N35	W23	03 16.6	1	10	9	9	E	RAMY	5969	
18	DSD	1117E	1927D	N36	E33	03 21.1		03	9	9	E	RAMY	5974	Flare Associated
18	SDF	1322E	1335D	N24	E19	03 20.0		09	0	0	E	RAMY		
18	ASR	1410E	1933D	S15	E85	03 25.0			9	9	E	RAMY	5984	
18	ASR	1437E	0106D	S15	E90	03 25.4			9	9	E	HOLL		
18	AFS	1441E	0106D	S24	W50	03 14.7		02	8	8	E	HOLL		
18	DSD	1454E	0106D	N32	W34	03 15.9		04	9	9	E	HOLL	5969	
18	AFS	1458E	0106D	S33	E05	03 19.0		02	6	8	E	HOLL		
18	ADF	1505E	2234D	N32	E31	03 21.1	1	05	9	9	E	HOLL	5974	
18	DSD	1506E	0106D	S33	E15	03 19.8		05	9	9	E	HOLL	5974	

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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
18	AFS	1532E	1925D	N05	E11	03 19.5		01	9	9	E	HOLL		
18	AFS	1532E	1925D	N08	E13	03 19.6		01	9	9	E	HOLL		
18	AFS	1532E	1925D	N10	E11	03 19.5		01	9	9	E	HOLL		
18	DSD	1622E	1921D	S17	W15	03 17.5		02	9	9	E	RAMY	5977	
18	SDF	1628E	0542D	N35	W24	03 16.8		05	0	0	E	SVTO	5969	
18	SDF	1638E	0655D	N25	E07	03 19.2		11	0	0	E	SVTO		
18	SDF	1638E	0655D	S50	E13	03 19.8		32	0	0	E	SVTO		
18	AFS	1755E	0318D	N11	E05	03 19.1		01	9	9	E	PALE		
18	AFS	1755E	0318D	S34	E06	03 19.2		02	9	9	E	PALE		
18	SSB	1850		145	W06	03 22.1			0	0	E	HOLL		174 W35 214 W75
18	ADF	1915E	2236D	N31	W60	03 14.1	1	08	9	9	E	HOLL	5971	
18	AFS	1919E	0106D	N17	E35	03 21.5		03	9	9	E	HOLL	5978	
18	APR	1923E	0106D	N18	E90	03 25.7	1		9	9	E	HOLL		
18	DSD	2019E	0106D	S34	E72	03 24.6		23	9	9	E	HOLL	5983	Flare Associated
18	ADF	2357E	1021D	N31	W37	03 16.1	1	05	9	9	E	LEAR	5969	
19	DSD	0145E	1021D	N32	W42	03 15.7		04	9	9	E	LEAR	5969	
19	DSD	0419E	1021D	S14	E62	03 23.9		05	9	9	E	LEAR	5984	
19	DSD	0509	0623D	S35	E76	03 25.3		11	9	9	E	LEAR	5983	Flare Associated
19	AFS	0623E	1021D	S31	E72	03 24.9		02	9	9	E	LEAR	5983	
19	AFS	0720E	1630D	N10	E00	03 19.3		02	9	9	E	SVTO		
19	ADF	0720E	1630D	S29	E69	03 24.7	1	05	9	9	E	SVTO	5983	
19	DSD	1107E	1708D	N32	W46	03 15.8		03	9	9	E	RAMY	5969	
19	ADF	1107E	2000D	N36	W35	03 16.6	1	10	9	9	E	RAMY	5969	
19	AFS	1111E	1712D	S14	E58	03 23.8		03	9	9	E	RAMY	5984	
19	DSD	1112E	1941D	S32	E69	03 24.9		03	9	9	E	RAMY	5983	
19	DSD	1125E	1708D	S33	E17	03 20.8		05	9	9	E	RAMY	5974	
19	BSD	1315	1405D	S35	E68	03 25.0		20	9	9	E	RAMY	5983	Flare Associated
19	LPS	1322	1356	S34	E68	03 25.0			9	9	E	SVTO	5983	Flare Associated
19	LPS	1323E	1430D	S36	E69	03 25.1			9	9	E	RAMY	5983	Flare Associated
19	LPS	1338E	1359D	S36	E80	03 26.0			9	9	E	HOLL	5983	Flare Associated
19	DSD	1343E	1845D	N31	W46	03 15.9		04	9	9	E	HOLL	5969	
19	ASR	1347E	1630D	S08	E90	03 26.3			9	9	E	SVTO		
19	ADF	1350E	1630D	N27	W48	03 15.8	2	15	9	9	E	SVTO	5969	
19	BSD	1354E	1429D	N13	E69	03 24.8		12	9	9	E	SVTO		Flare Associated
19	BSD	1357E	1505D	S15	E72	03 25.0		12	9	9	E	HOLL		Flare Associated
19	BSD	1357E	1420D	N15	E70	03 24.9		12	9	9	E	RAMY		Flare Associated
19	AFS	1430E	1937D	S32	W07	03 19.0		02	9	9	E	RAMY	5986	
19	AFS	1507E	1850D	S18	E76	03 25.4		04	9	9	E	HOLL		
19	ASR	1508E	1859D	S07	E90	03 26.4			9	9	E	HOLL		
19	DSD	1532E	2125D	S34	E13	03 20.7		03	9	9	E	HOLL	5974	
19	DSD	1538E	2137D	N17	E25	03 21.5		03	9	9	E	HOLL	5978	
19	SSB	1604		151	W24	03 23.6			0	0	E	HOLL		175 W48
19	DSD	1608E	1901D	S14	E56	03 23.9		03	9	9	E	HOLL	5984	Flare Associated
19	SSB	1635		128	W01	03 21.8			0	0	E	RAMY		133 W06 150 W23
19	SSB	1635		217	W90	03 21.3			0	0	E	RAMY		
19	SDF	1638E	0655D	N25	E07	03 20.2		11	0	0	E	SVTO		
19	SDF	1638E	0655D	S50	E13	03 20.8		32	0	0	E	SVTO		
19	DSD	1913E	2316D	S32	W01	03 19.7		03	9	9	E	HOLL	5974	
19	DSD	1913E	2316D	S35	W01	03 19.7		03	9	9	E	HOLL	5974	
19	AFS	2337E	1026D	S36	E14	03 21.1		02	9	9	E	LEAR	5974	
19	AFS	2338E	1026D	N18	E21	03 21.6		02	9	9	E	LEAR	5978	
19	AFS	2339E	1026D	S35	E60	03 24.8		01	9	9	E	LEAR	5983	
20	ASR	0330E	0659D	N12	E89	03 26.8			9	9	E	LEAR		
20	ADF	0705E	0936D	N39	W15	03 19.1	1	03	9	9	E	SVTO	5976	
20	ASR	0705E	1625D	N23	W90	03 13.4			8	7	E	SVTO	5967	
20	AFS	0705E	1625D	S35	E07	03 20.8		05	8	9	E	SVTO	5974	
20	AFS	0805E	1625D	N18	E15	03 21.5		04	9	9	E	SVTO	5978	
20	ADF	0810E	0835D	N24	E44	03 23.7	1				V	KHAR		
20	ASR	0840E	1026D	N23	W87	03 13.6			9	9	E	LEAR	5967	
20	ADF	0935E	0955D	S40	W37	03 17.4	1				V	KHAR		
20	DSD	1012E	1100D	S03	E68	03 25.5	2				V	KHAR		
20	DSD	1012E	1100D	S06	E66	03 25.4	2				V	KHAR		
20	AFS	1053E	2041D	S33	E03	03 20.7		03	9	9	E	RAMY	5974	
20	AFS	1055E	2041D	N16	E15	03 21.6		03	9	9	E	RAMY	5978	
20	ADF	1056E	2041D	N23	E21	03 22.1	1	08	9	9	E	RAMY	5978	
20	AFS	1058E	2041D	S34	E52	03 24.6		04	9	9	E	RAMY	5983	
20	AFS	1114E	1858D	N31	W54	03 16.2		03	9	9	E	RAMY	5969	
20	DSD	1129E	1405D	S07	E68	03 25.6		05	9	9	E	RAMY	5988	

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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
20	SSB	1137		117	W00	03 21.7			0	0	E	RAMY		128 W11
20	SSB	1137		117	W00	03 21.7			0	0	E	RAMY		128 W11
20	DSD	1443E	1522D	S07	E66	03 25.5		25	9	9	E	HOLL	5988	Flare Associated
20	ADF	1516E	1539D	S38	E62	03 25.6	1	17	9	9	E	HOLL	5983	
20	ADF	1548E	2328D	N17	E13	03 21.6	1	04	9	9	E	HOLL	5978	
20	BSD	1631E	1735D	N34	W56	03 16.2		03	6	9	E	HOLL	5969	Flare Associated
20	SSB	1835		128	W15	03 22.9			0	0	E	HOLL		148 W35 178 W65
20	SDF	2107E	1445D	S26	E20	03 22.4	3	05	0	0	E	HOLL		
20	AFS	2340E	1023D	S35	E48	03 24.8		02	9	9	E	LEAR	5983	
20	DSD	2341E	1023D	N12	E54	03 25.0		03	9	9	E	LEAR	5989	
21	ADF	0003	0310D	S40	W39	03 17.8	1				C	VORO		
21	ADF	0021	0310D	S03	E18	03 22.3	1				C	VORO		
21	APR	0030	0310D	S43	W90	03 13.6	1				C	VORO		
21	APR	0100	0310D	S27	E90	03 28.0	1				C	VORO		
21	APR	0215	0310D	N30	W90	03 14.0	1				C	VORO		
21	AFS	0235E	1023D	S34	W08	03 20.5		03	9	9	E	LEAR	5974	
21	DSD	1112E	1612D	S05	E53	03 25.4		06	9	9	E	SVTO	5988	Flare Associated
21	AFS	1132E	1948D	N18	E02	03 21.6		03	9	9	E	RAMY	5978	
21	ADF	1134E	1949D	N37	W60	03 16.6	1	06	9	9	E	RAMY	5969	
21	SSB	1323		151	W59	03 26.0			0	0	E	RAMY		
21	SSB	1451		106	W04	03 22.1			0	0	E	HOLL		130 W28 152 W50
21	DSD	1500E	0056D	S30	E36	03 24.4		09	9	9	E	HOLL	5983	
21	AFS	1513E	0056D	S35	W15	03 20.4		05	8	8	E	HOLL	5974	
21	AFS	1519E	0056D	N18	W01	03 21.6		03	8	8	E	HOLL	5978	
21	DSD	1521E	0056D	S07	E52	03 25.5		03	9	9	E	HOLL	5988	
21	SDF	1625E	1045D	S16	E06	03 22.1		30	0	0	E	SVTO		
21	DSD	1658	1743D	S29	E34	03 24.4		07	9	9	E	RAMY	5983	Flare Associated
21	DSD	1758E	0427D	N19	W04	03 21.4		03	9	9	E	PALE	5978	
21	DSD	1758E	0427D	S12	E30	03 24.0		04	9	9	E	PALE	5984	
21	ASR	1758E	0427D	S27	W90	03 14.7			9	9	E	PALE	5985	
21	ASR	1758E	0427D	S28	E90	03 28.8			9	6	E	PALE		
21	ADF	1758E	0427D	S29	E35	03 24.5		05	9	9	E	PALE	5983	
21	DSD	1914E	0056D	S07	W14	03 20.7		03	9	9	E	HOLL		
21	DSD	1917E	0056D	S32	W34	03 19.1		02	9	9	E	HOLL	5986	
21	AFS	1917E	0056D	S33	W36	03 18.9		02	9	9	E	HOLL	5986	
21	AFS	1922E	0056D	S13	E28	03 23.9		02	9	9	E	HOLL	5984	
21	AFS	2139E	0427D	S35	W17	03 20.5		06	9	8	E	PALE	5974	
21	ADF	2152E	0056D	S11	E47	03 25.4	1	05	9	9	E	HOLL	5988	
21	APR	2330	0300D	N28	W90	03 14.9	1				C	VORO		
21	AFS	2345E	1025D	S35	E18	03 23.4		02	9	9	E	LEAR	5974	
22	ASR	0005E	1025D	N30	W86	03 15.2			9	8	E	LEAR	5969	
22	ADF	0150	0300D	N39	W30	03 19.6	1				C	VORO		
22	BSL	0158	0215	N45	W90	03 14.6	1				C	VORO		
22	APR	0200	0300D	N37	E90	03 29.3	1				C	VORO		
22	APR	0200	0300D	S27	W90	03 15.1	1				C	VORO		
22	APR	0231	0300D	S45	W90	03 14.6	1				C	VORO		
22	AFS	0236E	1025D	N19	W07	03 21.6		02	9	9	E	LEAR	5978	
22	DSD	0236E	1025D	S06	E44	03 25.4		04	9	9	E	LEAR	5988	
22	ADF	0242E	1025D				1	05	9	9	E	LEAR		
22	AFS	0242E	1025D	S19	E43	03 25.4		02	9	9	E	LEAR	5987	
22	DSD	0710E	1605D	N06	E41	03 25.4		06	9	9	E	SVTO	5988	
22	DSD	0711E	1406D	N07	E43	03 25.5		04	9	9	E	SVTO	5988	
22	ASR	0712E	1605D	N27	W86	03 15.6			9	9	E	SVTO	5969	
22	ADF	0713E	1605D	S12	E18	03 23.6	2	04	9	9	E	SVTO	5984	
22	AFS	0714E	1605D	S35	W24	03 20.4		04	9	9	E	SVTO	5974	
22	ADF	0837E	0856D	S08	E45	03 25.7	1				V	KHAR		
22	BSL	0843E	0900D	N26	W90	03 15.4	1				V	KHAR		
22	BSL	0933E	1025D	N26	W90	03 15.4	1				V	KHAR		
22	ADF	1002E	1015D	N38	W70	03 16.7	1				V	KHAR		
22	DSD	1025	1405D	S32	E22	03 24.2		06	9	9	E	SVTO	5983	Flare Associated
22	DSD	1029E	1040D	S36	E23	03 24.3	1				V	KHAR		
22	APR	1051E	1518D	N27	W90	03 15.4	2		9	9	E	RAMY	5969	
22	ADF	1051E	1700D	S32	E30	03 24.8	1	05	9	9	E	RAMY	5983	
22	DSD	1101E	1127D	S12	E15	03 23.6	1				V	KHAR		
22	SSB	1237		117	W27	03 23.8			0	0	E	RAMY		152 W62
22	AFS	1406E	1605D	S32	E25	03 24.6		02	9	9	E	SVTO	5983	
22	APR	1418E	1438D	N25	W90	03 15.6	1		9	9	E	SVTO	5969	
22	EPL	1420	1518D	N29	W90	03 15.5	2		9	9	E	RAMY	5969	

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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	1421E	0109D	N35	W90	03 15.4			9	9	E	HOLL	5969	
22	APR	1421E	1858D	N27	W90	03 15.6	2		9	9	E	HOLL	5969	
22	EPL	1438E	1605D	N25	W90	03 15.6			9	9	E	SVTO	5969	
22	ADF	1505E	0109D	S13	E18	03 24.0	1	05	9	9	E	HOLL	5984	
22	ADF	1505E	0109D	S14	E16	03 23.8	1	03	9	9	E	HOLL	5984	
22	DSD	1545E	0109D	S35	W27	03 20.5		04	9	9	E	HOLL	5974	
22	DSD	1545E	2042D	S07	E45	03 26.0		03	9	9	E	HOLL	5988	
22	DSD	1545E	2042D	S07	E45	03 26.0		04	9	9	E	HOLL	5988	
22	ASR	1748E	0420D	N28	W90	03 15.7			9	9	E	PALE	5969	
22	DSD	1748E	0420D	S12	E12	03 23.6		03	9	9	E	PALE	5984	
22	DSD	1748E	0420D	S18	E33	03 25.2		01	9	9	E	PALE	5987	
22	DSD	1748E	0420D	S33	E26	03 24.8		05	9	9	E	PALE	5983	
22	AFS	1748E	0420D	S35	W31	03 20.3		06	9	8	E	PALE	5974	
22	AFS	2015E	0109D	N22	E14	03 23.9		02	9	9	E	HOLL		
22	AFS	2021E	0109D	N02	E09	03 23.5		03	9	9	E	HOLL		
22	DSD	2031E	0109D	S33	E26	03 24.9		04	9	9	E	HOLL	5983	
22	AFS	2031E	0109D	S34	E25	03 24.8		03	8	7	E	HOLL	5983	
22	ADF	2042E	0109D	S04	E37	03 25.6	2	09	9	9	E	HOLL	5988	
22	SSB	2140		104	W20	03 23.2			0	0	E	HOLL		129 W45
23	DSD	0036E	0109D	S10	E33	03 25.5		27	9	9	E	HOLL	5988	Flare Associated
23	ADF	0107E	1020D	N22	E14	03 24.1	1	04	9	9	E	LEAR		
23	ASR	0611E	1345D	N18	W90	03 16.4			9	9	E	SVTO		
23	DSD	0642E	1345D	S35	W33	03 20.6		06	9	9	E	SVTO	5974	
23	DSD	0730	0745	S07	E29	03 25.5	1				P	BUCH		
23	APR	0855E	1345D	N20	E90	03 30.2	2		9	9	E	SVTO		
23	AFS	0855E	1345D	S10	W08	03 22.8		03	9	9	E	SVTO	5980	
23	AFS	0855E	1345D	S22	W40	03 20.3		02	9	9	E	SVTO	5975	
23	ASR	1118E	1639D	N34	W90	03 16.3			9	9	E	RAMY	5969	
23	DSD	1152E	1639D	S11	E27	03 25.5		06	9	9	E	RAMY	5988	
23	AFS	1152E	1639D	S13	E03	03 23.7		03	9	9	E	RAMY	5984	
23	DSD	1345E	1852D	S07	E21	03 25.1		09	9	9	E	HOLL	5988	
23	DSD	1402E	2125D	S34	W46	03 19.9		04	9	9	E	HOLL	5974	
23	AFS	1402E	1639D	N21	E05	03 24.0		03	9	9	E	RAMY		
23	AFS	1405E	2125D	N22	E05	03 24.0		03	9	9	E	HOLL		
23	DSD	1413E	1639D	S34	W45	03 20.0		04	9	9	E	RAMY	5974	
23	SSB	1415		106	W33	03 24.1			0	0	E	HOLL		118 W42 157 W81
23	SSB	1425		110	W34	03 24.4			0	0	E	RAMY		117 W41 150 W74
23	AFS	1515E	2125D	S13	E01	03 23.7		04	8	7	E	HOLL	5984	
23	AFS	1525E	2125D	S20	E30	03 25.9		02	9	9	E	HOLL		
23	ADF	1850E	2125D	S10	E20	03 25.3	2	09	9	9	E	HOLL	5988	
23	AFS	1855E	0227D	N22	E02	03 23.9		02	9	9	E	PALE	5991	
23	AFS	1855E	0227D	S13	W01	03 23.7		03	9	9	E	PALE	5984	
23	DSD	1855E	0227D	S33	W37	03 20.8		02	9	9	E	PALE	5974	
23	AFS	2112E	0227D	S19	E28	03 26.0		02	9	9	E	PALE		
23	ASR	2253E	1020D	N35	W90	03 16.7			9	9	E	LEAR	5969	
23	AFS	2325E	1015D	N00	W22	03 22.3		02	9	9	E	LEAR	5991	
23	APR	2330	0300D	N50	W90	03 16.3	1				C	VORO		
23	ADF	2335	0300D	N12	W33	03 21.5	1				C	VORO		
23	ADF	2340	0310D	N35	E32	03 26.5	1				C	VORO		
24	ADF	0002	0300D	S32	W13	03 23.0	1				C	VORO		
24	APR	0053	0300D	N22	E90	03 30.9	1				C	VORO		
24	BSL	0200E	0222D	N26	E90	03 31.1	1				C	VORO		
24	AFS	0235E	1015D	S13	W05	03 23.7		02	8	9	E	LEAR	5984	
24	DSD	0258	0302D	S37	W00	03 24.1	1				C	VORO		
24	DSD	0302E	0318D	S34	W01	03 24.0		04	9	9	E	LEAR	5983	Flare Associated
24	DSD	0912E	1015D	S13	W03	03 24.1		03	9	9	E	LEAR	5984	Flare Associated
24	ADF	1129E	1701D	S12	W07	03 23.9	1	05	9	9	E	RAMY	5984	
24	DSD	1418E	1827D	S34	W61	03 19.7		07	9	9	E	HOLL	5974	
24	DSD	1419E	2337D	S15	W11	03 23.8		04	9	9	E	HOLL	5984	
24	SSB	1424		102	W40	03 24.8			0	0	E	HOLL		116 W54
24	ADF	1520E	2337D	S11	E10	03 25.4	2	06	9	9	E	HOLL	5988	
24	APR	1709E	2049D	S28	E90	03 31.7	1		9	9	E	HOLL		
24	SSB	1717		439	W18	03 21.7			0	0	E	RAMY		100 W40 119 W58
24	BSL	1727E	1747D	S24	E90	03 31.7			9	9	E	HOLL		
24	EPL	1727E	1752D	S21	E90	03 31.6			9	9	E	PALE		
24	BSL	1730E	1800D	S22	E90	03 31.6			8	7	E	RAMY		
24	AFS	1758E	0427D	S13	W15	03 23.6		03	9	9	E	PALE	5984	
24	AFS	1758E	0427D	S20	E15	03 25.9		02	9	9	E	PALE	5994	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue	Red	Obs Type	NOAA/USAF		Remarks
									Shift (.1 A)	Shift (.1 A)		Sta	Reg#	
24	APR	1800E	2140D	S29	E90	03 31.8	1		9	9	E	RAMY		
24	APR	1801E	0427D	N55	W90	03 17.0			9	9	E	PALE		
24	BSD	2320E	0830D	S05	E07	03 25.5		03	9	9	E	LEAR	5988	
24	ADF	2329	0200D	S30	W22	03 23.2	1				C	VORO		
24	ADF	2339	0200D	N13	W43	03 21.7	1				C	VORO		
24	APR	2342	0200D	N45	W90	03 17.5	1				C	VORO		
24	AFS	2345E	1011D	S13	W13	03 24.0		04	9	9	E	LEAR	5984	
24	EPL	2350	0113	N33	E90	04 1.1	1				C	VORO		
25	APR	0010	0200D	N64	E90	04 2.0	1				C	VORO		
25	DSD	0030E	0227D	S08	E21	03 26.6		05	9	9	E	LEAR	5988	
25	BSL	0123	0151	S15	W90	03 18.2	1				C	VORO		
25	ADF	0917E	0935D	S24	E65	03 30.4	1				V	KHAR		
25	BSL	0935E	0948D	S37	W90	03 18.1	1				V	KHAR		
25	APR	1000E	1145D	N40	W90	03 18.1					V	ATHN		
25	AFS	1105E	1532D	S13	W18	03 24.1		02	9	9	E	SVTO	5984	
25	AFS	1153E	2147D	S19	E06	03 25.9		02	9	9	E	RAMY	5994	
25	ADF	1153E	2151D	N12	E56	03 29.7	1	07	9	9	E	RAMY	5993	
25	ADF	1153E	2221D	N22	E70	03 30.9	1	10	9	9	E	RAMY	5995	
25	ADF	1207E	1916D	S08	E04	03 25.8	1	10	9	9	E	RAMY	5988	
25	ADF	1214E	2221D	S12	W21	03 23.9	1	07	9	9	E	RAMY	5984	
25	ADF	1408E	1730D	S24	E81	03 31.8	1	09	9	9	E	RAMY		
25	DSD	1524E	2239D	S33	W17	03 24.3		04	9	9	E	HOLL	5983	
25	ADF	1530E	2155D	S17	W67	03 20.5	1	23	9	9	E	RAMY	5975	
25	AFS	1532E	2220D	S13	W25	03 23.8		02	9	9	E	HOLL	5984	
25	ASR	1536E	2239D	N11	W90	03 18.9			9	9	E	HOLL		
25	ADF	1550E	2239D	N21	E72	03 31.2	1	17	9	9	E	HOLL	5995	
25	SSB	1636		409	W01	03 25.0			0	0	E	RAMY	414 W06 421 W13	
25	SSB	1639		460	W52	03 20.6			0	0	E	RAMY		
25	SDF	1837E	1809D	S26	E52	03 29.8	3	08	0	0	E	HOLL		
25	SDF	2138E	1856	N22	E61	03 30.6		15	0	0	E	PALE	5995	
25	SDF	2138E	1856	S29	E51	03 29.9		14	0	0	E	PALE		
25	ADF	2308	0231D	S27	W38	03 23.0	1				C	VORO		
25	APR	2320	0231D	S45	W90	03 18.5	1				C	VORO		
25	ADF	2356	0231D	N32	W02	03 25.8	1				C	VORO		
26	DSD	0001E	1016D	S08	E06	03 26.4		03	9	9	E	LEAR	5988	
26	APR	0016	0231D	S31	E90	04 2.1	1				C	VORO		
26	ADF	0035E	1016D	S12	W25	03 24.1	1	06	9	9	E	LEAR	5984	
26	DSD	0035	0055	S29	W26	03 24.0	1				C	VORO		
26	BSD	0050E	0110D	S39	W63	03 20.9		06	9	9	E	LEAR	5974	Flare Associated
26	BSL	0140	0210	N40	E90	04 2.4	1				C	VORO		
26	APR	0150	0231D	N65	E90	04 3.1	1				C	VORO		
26	BSD	0155D	0215	S05	W10	03 25.3	1				C	VORO		
26	ADF	0158	0231	S06	W11	03 25.2	1				C	VORO		
26	BSD	0211	0230	S05	E08	03 26.7	1				C	VORO		
26	DSD	1122E	1402D	S09	W42	03 23.3		02	9	9	E	RAMY	5984	
26	ADF	1122E	2136D	S10	W36	03 23.8	1	06	9	9	E	RAMY	5984	
26	AFS	1122E	2136D	S12	W36	03 23.8		03	9	9	E	RAMY	5984	
26	DSD	1127E	1413D	S08	E04	03 26.8		02	9	9	E	RAMY	5988	
26	DSD	1133E	1523D	S16	W17	03 25.2		04	9	9	E	RAMY	5987	
26	SSB	1154		422	W24	03 24.8			0	0	E	RAMY	456 W59	
26	ADF	1552E	1556	S06	W06	03 26.2	2	05	9	9	E	HOLL	5988	
26	SSB	1553		397	W03	03 19.4			0	0	E	HOLL	422 W28 359 W65	
26	SDF	1557	1558	S06	W06	03 26.2	3	05	0	0	E	HOLL	5988	Flare Associated
26	ADF	1615E	1804D	N00	E04	03 27.0	1	06	9	9	E	RAMY	5988	Flare Associated
26	ADF	1623E	2018D	S13	W42	03 23.5	1	07	9	9	E	HOLL	5984	
26	ADF	1746E	0427D	S09	W09	03 26.1		06	9	9	E	PALE	5988	
26	AFS	1746E	0427D	S14	W40	03 23.7		05	9	9	E	PALE	5984	
26	DSD	1746E	0427D	S33	W76	03 20.7		04	9	9	E	PALE	5974	
26	DSD	1746E	0427D	S36	W71	03 21.0		02	9	9	E	PALE	5974	
26	ADF	1746E	1748D	N18	E36	03 29.5		07	9	7	E	PALE	5973	
26	ADF	2312	0200D	N25	W24	03 25.1	1				C	VORO		
26	APR	2320	0200D	N51	W90	03 19.3	1				C	VORO		
26	ADF	2320	0200D	S27	W50	03 23.1	1				C	VORO		
26	AFS	2332E	1019D	S11	W42	03 23.8		02	9	9	E	LEAR	5984	
26	ADF	2333E	1019D	S10	W44	03 23.7	1	05	9	9	E	LEAR	5984	
26	ASR	2357E	1019D	S33	W90	03 19.8			9	9	E	LEAR	5974	
27	APR	0007	0200D	S35	E90	04 3.2	1				C	VORO		

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
27	DSD	0417	1019D	S36	W76	03 21.1		10	9	9	E	LEAR	5974	Flare Associated
27	ADF	0750E	0802D	N24	W48	03 23.6	1				V	KHAR		
27	ADF	0800E	0815D	S03	W28	03 25.2	1				V	KHAR		
27	AFS	1104E	2033D	S12	W50	03 23.7		03	9	9	E	RAMY	5984	
27	ADF	1106E	2033D	S13	W17	03 26.2	1	08	9	9	E	RAMY	5988	
27	SSB	1248		413	W34	03 26.5			0	0	E	RAMY		
27	ASR	1642E	0051D	S33	W90	03 20.5			9	9	E	HOLL	5974	
27	DSD	1652E	0044D	S06	W31	03 25.4		05	9	9	E	HOLL	5988	
27	DSD	1652E	1917D	N11	W19	03 26.3		02	9	9	E	HOLL		Flare Associated
27	DSD	1936E	1953D	S12	W50	03 24.0		15	9	9	E	HOLL	5984	
27	DSD	2246	2302	S04	W35	03 25.3	1				C	VORO		
27	ASR	2321E	0443D	N11	W90	03 21.2			9	9	E	PALE	5978	
27	AFS	2321E	0443D	N23	W53	03 23.9		04	9	9	E	PALE	5991	
27	ADF	2321E	0443D	N37	E47	03 31.7		09	9	9	E	PALE	5995	
27	AFS	2321E	0443D	S13	W56	03 23.7		05	9	9	E	PALE	5984	
27	DSD	2321E	0443D	S13	W60	03 23.4		03	9	9	E	PALE	5984	
28	EPL	0035E	0051D	N54	W90	03 20.3			9	9	E	HOLL		
28	APR	0043	0200D	N55	W90	03 20.2	1				C	VORO		
28	AFS	0044E	0051D	N24	W53	03 23.9		02	9	9	E	HOLL	5991	
28	ADF	0047	0200D	N34	W23	03 26.2	1				C	VORO		
28	BSL	0049	0126	S33	W90	03 20.9	1				C	VORO		
28	AFS	0050E	0051D	S11	W63	03 23.3		02	9	9	E	HOLL	5984	
28	EPL	0101E	1000D	N55	W90	03 20.3			9	9	E	LEAR		
28	EPL	0106E	0443D	N56	W90	03 20.2			9	6	E	PALE		
28	APR	0106	0200D	N34	E90	04 4.2	1				C	VORO		
28	ASR	0108E	0443D	S34	W90	03 20.9			9	9	E	PALE	5974	
28	ASR	0115E	1000D	S33	W90	03 20.9			9	9	E	LEAR	5974	
28	AFS	0116E	1000D	S12	W60	03 23.5		02	9	9	E	LEAR	5984	
28	APR	0126	0200D	S35	E90	04 4.2	1				C	VORO		
28	APR	0126E	0200D	N12	W90	03 21.3	1				C	VORO		
28	DSD	0333E	0836D	S08	W35	03 25.5		02	9	9	E	LEAR	5988	
28	APR	0710E	1140D	N48	W90	03 20.7					V	ATHN		
28	EPL	1113E	1247D	N55	W90	03 20.7			9	9	E	SVTO		
28	EPL	1122E	1611D	N56	W40	03 25.0			9	9	E	RAMY		
28	DSD	1148E	1852D	S06	W38	03 25.6		03	9	9	E	RAMY	5988	Flare Associated
28	ADF	1148E	2159D	N26	W60	03 23.8	1	06	9	9	E	RAMY	5991	
28	AFS	1148E	2159D	S12	W62	03 23.8		02	8	6	E	RAMY	5984	
28	ASR	1148E	2159D	S33	W90	03 21.3			9	9	E	RAMY	5974	
28	EPL	1335E	2050D	N53	W90	03 20.8			9	9	E	HOLL		
28	SSB	1430		413	W41	03 27.5			0	0	E	RAMY		433 W61
28	BSL	1549E	1651	N17	W89	03 21.9			9	9	E	RAMY	5997	
28	BSD	1555E	1934D	S12	W71	03 23.3		07	9	9	E	RAMY	5984	Flare Associated
28	DSD	1709E	2342D	S14	W74	03 23.1		02	9	9	E	HOLL	5984	
28	AFS	2012E	0314D	S16	E16	03 30.0		02	9	9	E	PALE	5998	
28	BSD	2031E	2122D	S13	W73	03 23.3		17	9	9	E	HOLL	5984	Flare Associated
28	BSD	2038E	2153D	S11	W73	03 23.4		07	9	9	E	RAMY	5984	
28	BSD	2040E	2155D	S14	W73	03 23.3		08	9	9	E	PALE	5984	Flare Associated
28	DSD	2147E	0314D	N22	W64	03 24.0		03	9	9	E	PALE	5991	
28	AFS	2230E	2342D	S16	E14	03 30.0		03	8	8	E	HOLL	5998	
28	APR	2259	0107	N33	E90	04 5.1	1				C	VORO		
28	ADF	2323	0107	N32	W40	03 25.8	1				C	VORO		
28	BSD	2323	2333	S12	W79	03 23.0	1				C	VORO		
28	ASR	2325E	2342D	N15	E90	04 4.8			9	9	E	HOLL		
28	AFS	2330E	1017D	S15	E14	03 30.0		03	9	9	E	LEAR	5998	
29	BSL	0104	0107	N28	E90	04 5.1	1				C	VORO		
29	APR	0449E	1017D	N34	E85	04 5.0			9	9	E	LEAR		
29	DSD	0840E	0908D	S41	W52	03 25.1	1				V	KHAR		
29	ADF	0931E	1000D	S13	W54	03 25.3	1				V	KHAR		
29	APR	1015E	1055D	N14	E90	04 5.2	1				V	KHAR		
29	SSB	1211		433	W76	03 26.5			0	0	E	RAMY		410 W53 369 W12
29	DSD	1218E	1427D	S03	W57	03 25.2		02	9	9	E	RAMY	5988	
29	AFS	1220E	1836D	S16	E07	03 30.0		03	9	9	E	RAMY	5998	
29	ASR	1222E	1836D	S11	W84	03 23.2			9	9	E	RAMY	5984	
29	ASR	1437E	0108D	S12	W90	03 22.8			9	9	E	HOLL	5984	
29	AFS	1437E	0108D	S16	E06	03 30.1		03	9	9	E	HOLL	5998	
29	ASR	1530E	0108D	N22	W64	03 24.7			9	9	E	HOLL	5991	
29	ADF	1546E	1836D	S16	E09	03 30.3	1	14	9	9	E	RAMY	5998	
29	AFS	1823E	0437D	N18	E17	03 31.1		02	9	9	E	PALE	6000	

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
29	ASR	1823E	0437D	S13	W88	03 23.1			9	9	E	PALE	5984	
29	AFS	1823E	0437D	S16	E03	03 30.0		03	9	9	E	PALE	5998	
29	ASR	1903E	2320D	N21	E90	04 5.7			9	9	E	PALE		
29	SDF	2022E	1413D	N22	W22	03 28.1		04	0	0	E	HOLL		
29	AFS	2035E	0108D	N18	W20	03 28.3		02	9	9	E	HOLL		
29	ADF	2135E	0108D	S07	W56	03 25.7	1	09	9	9	E	HOLL	5988	
29	AFS	2230E	0437D	S13	E46	04 2.4		02	9	9	E	PALE		
29	BSL	2300	2312D	S10	W90	03 23.2	1				C	VORO		
29	BSL	2300	2325	S13	W90	03 23.2	1				C	VORO		
29	ADF	2321	0200D	S33	E60	04 3.7	1				C	VORO		
29	ADF	2322	0200D	S30	W26	03 27.9	1				C	VORO		
29	ADF	2329	0200D	N37	W47	03 26.2	1				C	VORO		
29	BSL	2329	2351D	S12	W90	03 23.2	1				C	VORO		
29	APR	2340	0200D	S06	W90	03 23.2	1				C	VORO		
30	ASR	0004E	0437D	N21	E87	04 5.7			8	8	E	PALE		
30	BSL	0030	0050	S12	W90	03 23.2	1				C	VORO		
30	BSL	0032	0050	S14	W90	03 23.2	1				C	VORO		
30	BSL	0100	0135	S12	W90	03 23.3	1				C	VORO		
30	BSL	0100E	0130D	S39	W90	03 22.7	1				C	VORO		
30	DSD	0115E	0140	S08	W60	03 25.5		30	9	9	E	PALE	5988	
30	BSL	0157	0200D	S17	W90	03 23.2	1				C	VORO		
30	ASR	0212E	1016D	S90	W12	03 29.0			9	9	E	LEAR	5984	
30	AFS	0300E	1016D	S16	W01	03 30.0		02	9	9	E	LEAR	5998	
30	BSL	0732E	0805D	S14	W90	03 23.5	2				V	KHAR		
30	ADF	0741E	0855D	N38	E17	03 31.7	1				V	KHAR		
30	ASR	0838E	1620D	S13	W90	03 23.6			9	9	E	SVTO	5984	
30	BSL	0856E	0906D	S16	W90	03 23.5	1				V	KHAR		
30	BSL	0912E	0923	S15	W90	03 23.6	1				V	KHAR		
30	BSL	0944E	0955D	S16	W90	03 23.6	1				V	KHAR		
30	ADF	0955E	1015D	S20	E22	04 1.1	1				V	KHAR		
30	ADF	1040E	1050D	S20	E22	04 1.1	1				V	KHAR		
30	ASR	1108E	1955D	S12	W90	03 23.7			9	9	E	RAMY	5984	
30	ASR	1140	1955D	N15	E90	04 6.3			9	9	E	RAMY	6001	
30	AFS	1145E	1955D	N22	W28	03 28.3		02	9	9	E	RAMY	6000	
30	AFS	1150E	1955D	S16	W06	03 30.0		03	9	9	E	RAMY	5998	
30	ADF	1308E	1955D	S11	W65	03 25.6	1	07	9	9	E	RAMY	5987	
30	ASR	1413E	2156D	S14	W90	03 23.8			8	8	E	HOLL	5984	
30	DSD	1642E	1716D	S04	W71	03 25.4		03	9	9	E	RAMY	5988	
30	SSB	1654		S45	W03	03 27.3			0	0	E	RAMY		368 W20 411 W69
30	ASR	1739E	2156D	N24	W90	03 23.8			9	9	E	HOLL	5991	
30	SSB	1745		S45	W04	03 27.4			0	0	E	HOLL		373 W32 431 W90
30	DSD	1812E	0417D	N22	W34	03 28.1		02	8	8	E	PALE	6000	
30	ADF	1812E	0417D	N35	E11	03 31.6		14	9	8	E	PALE	5995	
30	AFS	1812E	0417D	S05	E65	04 4.6		04	9	9	E	PALE	5999	
30	AFS	1812E	0417D	S15	W11	03 29.9		03	9	8	E	PALE	5998	
30	ADF	1812E	0417D	S17	E15	03 31.9		08	9	7	E	PALE	5996	
30	ASR	1812E	2329D	S12	W90	03 24.0			9	9	E	PALE	5984	
30	APR	1847E	1848D	N26	W90	03 23.8	2		9	9	E	HOLL	5991	
30	DSD	1929E	2156D	S05	W72	03 25.4		05	9	9	E	HOLL	5988	
30	SDF	2246E	2048	S28	E24	04 1.8		10	0	0	E	PALE		
30	ASR	2325E	1011D	S32	W83	03 24.4			8	8	E	LEAR	5983	
30	ASR	2332E	0417D	S29	W90	03 23.9			9	9	E	PALE	5983	
31	BSL	0618E	0801D	S02	W90	03 24.5	1				C	ABST		
31	BSL	0650E	0745D	S30	W90	03 24.2	1				C	ABST		
31	ASR	0832E	1637D	S16	W90	03 24.5			9	9	E	SVTO	5987	
31	ASR	0832E	1637D	S29	W90	03 24.3			9	9	E	SVTO	5983	
31	ADF	1100E	1922D	N26	E70	04 5.9	1	11	9	9	E	RAMY	6001	
31	DSD	1108E	1325D	S13	W24	03 29.6		03	9	9	E	RAMY	5998	
31	ADF	1117E	1633D	S04	W79	03 25.6	1	08	9	9	E	RAMY	5988	
31	ASR	1420E	0056D	S30	W90	03 24.5			9	9	E	HOLL	5983	
31	AFS	1428E	0056D	N21	W42	03 28.4		02	9	9	E	HOLL	6000	
31	ASR	1500E	1716D	S06	W82	03 25.5			9	9	E	HOLL	5988	
31	SSB	1640		S94	W65	03 23.3			0	0	E	RAMY		414 W85
31	ASR	1740E	0056D	S15	W90	03 24.9			9	9	E	HOLL	5984	
31	ASR	2102E	0433D	S07	W90	03 25.1			9	9	E	PALE	5988	
31	DSD	2102E	0433D	S09	W80	03 25.9		10	9	9	E	PALE	5988	
31	ADF	2110E	0433D	N40	W05	03 31.5		16	9	9	E	PALE	5995	



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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."