



**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**

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Data for August 1990

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

N U M B E R   5 5 8

( I s s u e d   i n   T w o   P a r t s )

E d i t o r :   H e l e n   E .   C o f f e y

C h i e f :   J o e   H .   A l l e n  
S o l a r - T e r r e s t r i a l   P h y s i c s   D i v i s i o n

S t a f f :   D a n i e l   C .   W i l k i n s o n  
C a r o l   W e a t h e r s  
J o h n   A .   M c K i n n o n

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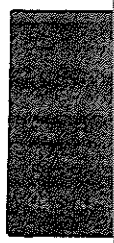
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Aug 90

H $\alpha$  SOLAR FLARES

AUGUST 1990

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 Time (UT)	Measurement		Remarks		
													Apparent (10-6 Disk)	Corr (Sq Deg)			
0001	01	00251	0028	0050	S07	E16	6184	08	2.2	25	SN		26	0.3	EF		
	YUNN 01	0025	0028	0047	S07	E16	6184	08	2.2	22	SN		31	0.3	E		
	HOLL 01	0026	0032U	0054	S07	E16	6184	08	2.2	28	SF	3	E	22		F	
0002	HOLL 01	0039	0045	0055	N26	E78	6185	08	7.1	16	SF	3	E	42			
0003	01	00575	01031	0116	S24	W37	6172	07	29.3	19	1N		139	2.0	DIJT		
	VORO 01	0057	0103	0111	S24	W36	6172	07	29.3	14	1F	1	C	0103	215	3.1	DIJT
	YUNN 01	0102	0104	0120	S24	W38	6172	07	29.2	18	SN		C	63	1.0		
0004	01	04582	05022	0514	N14	E77	6186	08	7.0	16	SN		52		D		
	ABST 01	0458	0502	0515	N14	E80	6186	08	7.2	17	SN		C	0502	87		D
	LEAR 01	0500	0504	0514	N13	E74	6186	08	6.8	14	SF	3	E	17			
0005	SVTO 01	1024	1028	1041	N30	E68	6185	08	6.8	17	SF	3	E	33			
0006	01	11567	12051	1216	S26	W39	6172	07	29.6	20	SF		28		FH		
	RAMY 01	1156	1205	1218	S25	W40	6172	07	29.5	22	SF	3	E	38		F	
	SVTO 01	1203	1206	1213	S26	W38	6172	07	29.6	10	SF	3	E	18		H	
0007	SVTO 01	1415	1418	1421	S24	W41	6172	07	29.5	6	SF	3	E	41			
0008	HOLL 01	1507	1507	1526	N08	W48	6171	07	29.1	19	SF	3	E	17			
0009	RAMY 01	1546	1546	1555	S25	W41	6172	07	29.6	9	SF	3	E	23			
0010	01	1607*	17059	1738	S24	W40	6172	07	29.7	91	SF		46		EFK		
	RAMY 01	1607	1706	1735	S25	W42	6172	07	29.5	88	SF	3	E	44			
	HOLL 01	1651	1705	1740	S24	W40	6172	07	29.7	49	SF		E	10		K	
	HOLL 01	1651	1714	1740	S24	W40	6172	07	29.7	49	SF	3	E	50		FE	
	PALE 01	1652	1714	1736	S25	W40	6172	07	29.7	44	SF	3	E	81		F	
0011	RAMY 01	1708	1708	1714	N09	W52	6171	07	28.9	6	SF	3	E	23			
0012	01	18022	1826	1914	S26	W40	6172	07	29.7	72	SF		68		F		
	PALE 01	1802	1826	1900	S25	W40	6172	07	29.7	58	SF	3	E	69			
	HOLL 01	1804	1826	1929	S26	W39	6172	07	29.8	85	SF	4	E	66		F	
0013	RAMY 01	1817	1817	1824	N10	W52	6171	07	28.9	7	SF	3	E	18			
0014	HOLL 01	1853	1855	1900	N09	W51	6171	07	29.0	7	SF C	3.3	4	E	17		
0015	01	19301	1935	1948	N26	E66	6185	08	6.9	18	SF		41				
	RAMY 01	1930	1935	1948	N27	E65	6185	08	6.9	18	SF	3	E	34			
	HOLL 01	1931	1935	1947	N26	E68	6185	08	7.1	16	SF	4	E	48			
0016	01	1936	1943*	2109	S25	W42	6172	07	29.7	93	SB M	1.6	45		EFK		
	HOLL 01	1936	1943	2109	S25	W42	6172	07	29.7	93	SB		E	11		K	
	HOLL 01	1936	2002	2109	S25	W42	6172	07	29.7	93	SN M	1.6	4	E	79		FE
0017	01	19374	1944*	2019	S12	W36	6174	07	30.2	42	SF		30		F		
	HOLL 01	1937	1944	2039	S13	W36	6174	07	30.2	62	SF	4	E	32		F	
	RAMY 01	1941	1955	1959	S10	W35	6174	07	30.3	18	SF	3	E	29		F	
0018	01	1949	19496	2017	N26	E67	6185	08	7.0	28	SF		46				
	RAMY 01	1949	1949	2012	N26	E67	6185	08	7.0	23	SF	3	E	35			
	HOLL 01	1949	1955	2028	N25	E68	6185	08	7.1	39	SF	4	E	69			
	PALE 01	2001E	2007U	2010	N26	E65	6185	08	6.9	9D	SF	3	E	35			
0019	01	21204	21245	2208	S25	W43	6172	07	29.6	48	SN C	8.3	44		EFK		
	HOLL 01	2120	2124	2208	S25	W42	6172	07	29.7	48	SN		E	37		K	
	HOLL 01	2120	2129	2208	S25	W42	6172	07	29.7	48	SN C	8.3	4	E	61		FE
	RAMY 01	2124	2129	2129D	S25	W44	6172	07	29.6	5D	SF	3	E	35			
	01	2306		2331	No Flare Patrol												
02	0005		0010	No Flare Patrol													
0020	LEAR 02	0114	0118	0207	S25	W46	6172	07	29.6	53	SF	2	E	41			

H $\alpha$  SOLAR FLARES

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Aug 90

AUGUST 1990

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	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)		
0021	LEAR	02	0211	0238	0337D	S24	W47	6172	07 29.5	86D	SF	3	E		36			
0022	LEAR	02	0256	0257	0305	N25	E64	6185	08 7.1	9	SF	3	E		44			
0023		02	05434	05502	0600	S26	W53	6172	07 29.2	17	SN C 5.0				90	1.9	D	
	NITK	02	0543	0550	0600	S26	W53	6172	07 29.2	17	1B		C	0550	120	2.6		
	LEAR	02	0545E	0549U	0603	S26	W53	6172	07 29.2	18D	SF C 5.0	3	E		78			
	ABST	02	0546	0551	0559	S26	W54	6172	07 29.1	13	1F		C	0551	114	2.5	D	
	YUNN	02	0546	0552	0557	S27	W53	6172	07 29.2	11	SN		C		31	0.7		
	KANZ	02	0547	0550	0600	S27	W51	6172	07 29.4	13	SF		V					
	ATHN	02	0550E	0553U	0558D	S27	W58	6172	07 28.8	8D	1N	3	V	0553	111	2.4		
	PURP	02	0550E	0554U	0558	S25	W48	6172	07 29.6	8D	SN		P	0554	83	1.3		
0024		02	0605*	06154	0634	S26	W49	6172	07 29.5	29	SF				90	1.7	E	
	KANZ	02	0605	0619	0640	S25	W48	6172	07 29.6	35	SF		V					
	YUNN	02	0612	0615	0634	S27	W49	6172	07 29.5	22	SN		C		94	1.8		
	ABST	02	0615	0618	0628	S26	W49	6172	07 29.5	13	SF		C	0618	87	1.6	E	
0025	KANZ	02	0708	0708	0712	S27	W52	6172	07 29.3	4	SF		V					
0026	SVTO	02	0801	0803	0808	S25	W50	6172	07 29.6	7	SF	3	E		24			F
0027		02	10042	1010	1022	N08	W59	6171	07 29.1	18	SF				52			
	SVTO	02	1004	1010	1019	N08	W60	6171	07 29.0	15	SF	3	E		52			
	KANZ	02	1006	1010	1026	N09	W58	6171	07 29.2	20	SF		V					
0028		02	1006	1010	1014	S26	W48	6172	07 29.8	8	SF C 4.2				33			
	SVTO	02	1006	1010	1014	S27	W47	6172	07 29.8	8	SF C 4.2	3	E		33			
	KANZ	02	1006	1010	1014	S26	W48	6172	07 29.8	8	SF		V					
0029		02	1233*	12369	1245	S25	W52	6172	07 29.6	12	SF				16			F
	KANZ	02	1233	1236	1240	S27	W54	6172	07 29.4	7	SF		V					
	KANZ	02	1244		1244D	S25	W51	6172	07 29.7	7D	SF		V					
	RAMY	02	1244	1245	1250	S24	W51	6172	07 29.7	6	SF	3	E		16			F
0030		02	15108	15154	1547	N19	E57	6186	08 7.0	37	SF C 2.3				47			EF
	HOLL	02	1510	1515	1556	N18	E58	6186	08 7.0	46	SF C 2.3	3	E		78			FE
	KANZ	02	1511	1515	1558	N20	E57	6186	08 7.0	47	SF		V					
	RAMY	02	1518	1519	1528	N19	E57	6186	08 7.0	10	SF	3	E		16			
0031		02	15331	15341	1537	N12	W64	6171	07 28.9	4	SF				17			F
	HOLL	02	1533	1535	1537	N11	W63	6171	07 29.0	4	SF	3	E		17			F
	KANZ	02	1534	1534	1546D	N12	W64	6171	07 28.9	12D	SF		V					
0032		02	1608	16113	1636	N09	W64	6171	07 29.0	28	SF				29			F
	HOLL	02	1608	1611	1631	N09	W63	6171	07 29.0	23	SF	3	E		29			F
	KANZ	02	1613E	1614	1641	N09	W65	6171	07 28.9	28D	SF		V					
0033		02	16296	16296	1638	S25	W55	6172	07 29.5	9	SF C 2.9				12			F
	HOLL	02	1629	1629	1636	S25	W55	6172	07 29.5	7	SF C 2.9	3	E		12			F
	KANZ	02	1629	1629	1637	S25	W57	6172	07 29.4	8	SF		V					
	RAMY	02	1635	1635	1640	S25	W54	6172	07 29.6	5	SF	3	E		13			F
0034		02	18241	18251	1843	N24	E58	6185	08 7.2	19	SF C 2.4				44			F
	PALE	02	1824	1826	1844D	N24	E58	6185	08 7.2	20D	SF C 2.4	3	E		45			F
	HOLL	02	1825	1825	1843	N24	E58	6185	08 7.2	18	SF C 2.4	3	E		42			F
0035	HOLL	02	1828	1828	1834	S25	W51	6172	07 29.9	6	SF	3	E		13			F
0036	HOLL	02	1852	1852	1857	S25	W54	6172	07 29.7	5	SF	3	E		16			F
0037	HOLL	02	2321	2322	2329	N09	W66	6171	07 29.1	8	SF	3	E		14			
0038	HOLL	02	2329	2331	2343	S15	E42	6192	08 6.1	14	SF	3	E		18			
0039	HOLL	03	0030	0031	0039	N08	W66	6171	07 29.2	9	SF	3	E		28			
0040	KANZ	03	0650	0650	0655	S25	W57	6172	07 30.0	5	SF		V					

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Aug 90

Ha SOLAR FLARES

AUGUST 1990

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)		
0041		03 0717I	0735U	0752D	N20	E48	6185	08	7.0	35D	1N				87	1.4	D	
	ISTA	03 0717		0752D	N20	E48	6185	08	7.0	35D	1N		V					
	ABST	03 0718	0735U	0750D	N19	E49	6185	08	7.0	32D	SF		P	0735	87	1.4	D	
0042		03 0817	0817	0825	S06	E34	6187	08	5.9	8	1N							
	KANZ	03 0817	0817	0825	S05	E33	6187	08	5.8	8	SF		V					
	ISTA	03 0820E		0823D	S07	E36	6187	08	6.0	3D	1N		V					
0043		03 0822A		0834D	N10	W66	6172A	07	29.5	12D	1B						DG	
	ISTA	03 0822		0825D	N10	W70	6172A	07	29.2	3D	1N		V					
	ISTA	03 0826		0834D	N10	W63	6172A	07	29.7	8D	SB		V				DG	
0044	ISTA	03 0848		0856D	S26	W65	6172	07	29.4	8D	1N		V					
0045	RAMY	03 1132	1135	1148	S25	W63	6172	07	29.7	16	SF C 2.0	3	E		42			
0046		03 1303	1303	1307	N20	E44	6186	08	6.9	4	SF					15		
	KANZ	03 1303	1303	1307	N20	E42	6186	08	6.7	4	SF		V					
	RAMY	03 1303	1303	1307	N19	E45	6186	08	7.0	4	SF	3	E		15			
0047		03 1313*	1317*	1338	S16	E33	6192A	08	6.0	25	SF C 2.6				31		FH	
	RAMY	03 1313	1317	1328	S17	E33	6192A	08	6.0	15	SF	3	E		49		FH	
	KANZ	03 1315	1319	1343	S16	E33	6192A	08	6.0	28	SF		V					
	HOLL	03 1318E	1318U	1347	S15	E34	6192A	08	6.1	29D	SF C 2.6	2	E		27		H	
	RAMY	03 1330	1331	1335	S17	E33	6192A	08	6.1	5	SF	3	E		17		F	
0048		03 1358I	1403	1409	S25	W66	6172	07	29.6	11	SF					24		
	RAMY	03 1358	1403	1407	S25	W65	6172	07	29.6	9	SF	3	E		24			
	KANZ	03 1359	1403	1411	S25	W66	6172	07	29.6	12	SF		V					
0049		03 1443A	1448B	1458	S25	W67	6172	07	29.5	15	SF C 4.5					71		
	HOLL	03 1443	1450	1500	S25	W67	6172	07	29.5	17	SN C 4.5	4	E		84			
	RAMY	03 1447	1448	1454	S25	W67	6172	07	29.5	7	SF	3	E		64			
	KANZ	03 1447	1451	1459	S25	W69	6172	07	29.4	12	SF		V					
	SVTO	03 1447E	1452U	1503D	S26	W64	6172	07	29.7	16D	SF	2	E		64			
0050		03 1647	1647Z	1652	S25	W66	6172	07	29.7	5	SF					16		
	KANZ	03 1647	1647	1651	S25	W66	6172	07	29.7	4	SF		V					
	RAMY	03 1647	1649	1652	S25	W66	6172	07	29.7	5	SF	3	E		16			
0051	HOLL	03 1736	1738	1747	N25	E62	6188	08	8.5	11	SF	4	E		27			
		03 2111		2118	No Flare Patrol													
		03 2238		2244	No Flare Patrol													
		03 2248		2400	No Flare Patrol													
		04 0000		0020	No Flare Patrol													
		04 0049		0156	No Flare Patrol													
0052		04 0337Z	0340Z	0348	S26	W70	6172	07	29.8	11	SN C 2.5					43		D
	TACH	04 0337	0340	0345	S25	W70	6172	07	29.8	8	SB	3	C	0340	51		D	
	PALE	04 0340	0342	0350	S27	W70	6172	07	29.8	10	SF C 2.5	3	E		35			
0053		04 0647I	0650I	0701	S26	W76	6172	07	29.5	14	SN C 4.9					24		D
	KANZ	04 0647	0651	0703	S24	W71	6172	07	29.9	16	SF		V					
	SVTO	04 0648	0650	0700	S27	W73	6172	07	29.7	12	SF C 4.9	3	E		33			
	ISTA	04 0648E	0651	0700	S26	W75	6172	07	29.5	12D	SN		V				D	
	YUNN	04 0650E	0650U	0650D	S28	W83	6172	07	28.9	12D	SN		P	0650	16			
0054	KANZ	04 0818	0822	0833	S25	W72	6172	07	29.9	15	SF		V					
0055		04 1154	1155Z	1210	N16	E34	6186	08	7.1	16	SF C 1.5					20		F
	RAMY	04 1154	1155	1200	N15	E34	6186	08	7.1	6	SF	3	E		15		F	
	SVTO	04 1154	1158	1221	N16	E34	6186	08	7.1	27	SF C 1.5	3	E		26		F	
0056	KANZ	04 1257	1304	1311	N17	E25	6186	08	6.4	14	SF		V					
0057		04 1421Z	1423Z	1434	N16	E32	6186	08	7.0	13	SF					41		F
	RAMY	04 1421	1426	1429	N16	E32	6186	08	7.0	8	SF	3	E		41		F	
	HOLL	04 1422E	1425U	1441D	N16	E33	6186	08	7.1	19D	SF	2	E		66		F	
	SVTO	04 1423	1423	1438	N17	E32	6186	08	7.0	15	SF	3	E		17		F	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
						Region	Lat	Cmd							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0058	RAMY	04	1558	1559	1605	N15 E32	6186	08	7.1	7	SF	3	E		14		F	
0059	04	16282	16322	1647	S06 E19	6187	08	6.1	19	SF					48		F	
	HOLL	04	1618E	1637U	1716D	S06 E19	6187	08	6.1	58D	SF	2	E		82		F	
	KANZ	04	1628	1632	1647	S06 E19	6187	08	6.1	19	SF		V					
	SVTO	04	1629	1634	1646	S06 E18	6187	08	6.0	17	SF	3	E		26		F	
	RAMY	04	1630	1633	1649	S07 E19	6187	08	6.1	19	SF	3	E		35		F	
0060	04	21341	21343	2146	N28 E22	6185	08	6.6	12	SN C 1.5					15			
	RAMY	04	2134	2134	2145	N28 E22	6185	08	6.6	11	SN C 1.5	3	E		15			
	PALE	04	2135	2137	2147	N29 E23	6185	08	6.7	12	SF	3	E		15			
0061	YUNN	05	0005E	0103	0124	N43 E84		08	11.9	79D			P				AG	
		05	0204		0259	No Flare Patrol												
0062	05	09351	0936	0949	N24 E38	6188	08	8.3	14	SF C 1.7					22		F	
	SVTO	05	0935	0936	0951	N24 E38	6188	08	8.3	16	SF C 1.7	3	E		22		F	
	KANZ	05	0936	0936	0947	N23 E37	6188	08	8.2	11	SF		V					
0063	RAMY	05	1118	1142	1201	S16 W55	6193	08	1.3	43	SF	3	E		12			
0064	RAMY	05	1238	1244	1301	S10 W57	6191	08	1.2	23	SF	3	E		21			
0065	05	13521	13531	1405	N28 E16	6185	08	6.8	13	SF					40		FU	
	SVTO	05	1352	1353	1404	N26 E17	6185	08	6.9	12	SF	3	E		31		U	
	RAMY	05	1352	1354	1404	N29 E16	6185	08	6.8	12	SF	3	E		50		F	
	KANZ	05	1353	1353	1408	N29 E15	6185	08	6.7	15	SF		V					
0066	KANZ	05	1647	1647	1658	N13 E19	6186	08	7.1	11	SF		V					
0067	HOLL	05	1922	1928	1937	S17 W59	6193	08	1.3	15	SF	3	E		17			
0068	HOLL	05	1928	1943	1949	S27 W81	6172	07	30.6	21	SF C 5.1	3	E		19		F	
		05	2142		2238	No Flare Patrol												
0069	HOLL	05	2355	2401	2425	N23 E35	6188	08	8.7	30	SF	3	E		28		F	
0070	06	0026*	0028*	0118	N12 E13	6186	08	7.0	52	SN					52	0.7	EFK	
	HOLL	06	0026	0028	0114	N11 E12	6186	08	6.9	48	SF		E		35		K	
	HOLL	06	0026	0046	0114	N11 E12	6186	08	6.9	48	SF	3	E		58		F	
	MITK	06	0045	0045	0135	N13 E15	6186	08	7.2	50	SN		C	0045			E	
	YUNN	06	0049E	0052U	0111	N14 E13	6186	08	7.0	22D	SN		P	0052	63	0.7		
0071	HOLL	06	0047	0048	0050	S19 E45	6196A	08	9.5	3	SF	3	E		12			
0072	YUNN	06	0124	0135	0153	S21 W88		07	30.4	29			C				A	
0073	TACH	06	0450	0454	0522	S23 E26	6185A	08	8.2	32	SB	3	C	0454	117	1.4	U	
0074	BUCA	06	0634	0635	0645	S16 W64	6193	08	1.4	11	SN		C	0635	64	1.7	E	
0075	KANZ	06	0825	0825	0832	N28 E03	6185	08	6.6	7	SF		V					
0076	06	0848*	0852*	0924	N24 E24	6188	08	8.2	36	SF C 5.1					206	3.9	EFH	
	KANZ	06	0848	0852	0900	N23 E26	6188	08	8.4	12	SF		V					
	KHAR	06	0850	0855	0916D	N23 E24	6188	08	8.2	26D	1F	2	P	0902	330	3.9	EH	
	SVTO	06	0850	0912	0949	N24 E24	6188	08	8.2	59	SF C 5.1	4	E		81		F	
	KANZ	06	0903	0903	0923	N24 E23	6188	08	8.1	20	SF		V					
0077	06	0907	0912	0923	S15 E56		08	10.6	16	SF							DL	
	KANZ	06	0907	0912	0923	S14 E55		08	10.5	16	SF		V					
	KHAR	06	0912U	0914U	0916D	S16 E58		08	10.8	4U	SF	2	V	0914			DL	
0078	KHAR	06	1102	1104	1112	N24 W48	6180	08	2.7	10	SF	2	V	1104			D	
0079	06	12081	12102	1218	N20 W50	6180	08	2.7	10	SF					14			
	KANZ	06	1208	1212	1220	N21 W51	6180	08	2.6	12	SF		V					
	SVTO	06	1209	1210	1217	N19 W50	6180	08	2.7	8	SF	3	E		14			



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								Region	CMP No	Day						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0080		06	12434	1246*	1308	N20	W52	6180	08	2.5	25	SF				36		F	
	SVTO	06	1243	1246	1313	N18	W53	6180	08	2.5	30	SF	4	E		31		F	
	RAMY	06	1247	1256	1303	N22	W52	6180	08	2.5	16	SF	3	E		41			
0081	RAMY	06	1245	1249	1257	N23	E07	6185	08	7.1	12	SF	3	E		14			
0082	PALE	06	2129	2130	2134	S17	W16	6192	08	5.7	5	SF	3	E		23			
0083	MITK	07	0001	0005	0117D	S18	W18	6192	08	5.6	76D	SF		C	0005				
0084	VORO	07	0057	0059	0105	N10	E06	6189	08	7.5	8	SF	1	C	0059	99	1.0	DIJ	
0085	TACH	07	0403	0404	0415	N19	W65	6180	08	2.2	12	SF	4	C	0404	102		DG	
0086	TACH	07	0421	0429	0436	N19	W65	6180	08	2.2	15	1B	4	C	0429	255		DG	
0087	KHAR	07	0728U		0742	S16	W24	6192	08	5.5	14U	SF	2	P	0728	150	1.7	EHO	
0088		07	0836*	0840*	0921	S18	W23	6192	08	5.6	45	SN				97	1.5	DEFT	
	HTPR	07	0836	0840	0925	S17	W24	6192	08	5.5	49	1N		C	0840	200	2.4	T	
	SVTO	07	0838	0844	0929	S19	W22	6192	08	5.7	51	SF	3	E		42		F	
	ISTA	07	0840	0844	0905	S17	W21	6192	08	5.8	25	SB		V				E	
	URUH	07	0900	0905	0925	S18	W24	6192	08	5.5	25	SF		C		48	0.6	D	
0089	HTPR	07	1142	1148	1200	N05	W03	6189	08	7.3	18	SF		C	1148	90	0.9	H	
0090	RAMY	07	1254	1254	1300	S17	W26	6192	08	5.6	6	SF C 2.0	3	E		18			
0091		07	1514*	15209	1540	N18	W64	6180	08	2.8	26	SF				74		FU	
	HTPR	07	1514	1520	1545	N15	W64	6180	08	2.8	31	SF		C	1520	110		U	
	RAMY	07	1526	1529	1534	N21	W65	6180	08	2.6	8	SF	3	E		39		F	
0092	HTPR	07	1525	1533	1550	S18	W28	6192	08	5.5	25	SF		C	1533	120	1.5		
0093	HTPR	07	1540		1630	N13	E88	6197	08	14.3	50	SF		C				A	
0094	RAMY	07	1550	1550	1554	N22	E09	6188	08	8.3	4	SF	3	E		13		F	
0095	PALE	07	2206	2211	2215	S18	W31	6192	08	5.6	9	SF	3	E		24			
0096		08	0031	0036	0050	N21	W04	6188	08	7.7	19	1N				172	3.4	EFH	
	LEAR	08	0031	0036	0050	N21	W04	6188	08	7.7	19	SF	3	E		24		FN	
	URUH	08	0036E	0040U	0050D	N21	W04	6188	08	7.7	14D	1N		C		321	3.4	E	
0097	LEAR	08	0157	0159	0204	N14	E75	6197	08	13.7	7	SF	3	E		22			
0098	LEAR	08	0221	0222	0228	N17	W13	6186	08	7.1	7	SF	3	E		15			
0099		08	04332	04347	0443	S18	W36	6192	08	5.4	10	1N C 1.7				108	2.5	E	
	LEAR	08	0433	0434	0443	S17	W35	6192	08	5.5	10	SF C 1.7	3	E		38			
	TACH	08	0435	0441	0450U	S20	W37	6192	08	5.4	15U	1N	3	C	0441	178	2.5	E	
0100		08	07404	0707*	0751	N14	E74	6197	08	13.9	11	SF C 1.4				48		DI	
	ISTA	08	0635E		0825	N11	E79	6197	08	14.2	110D	1B		V				I	
	LEAR	08	0702E	0702U	0757	N14	E72	6197	08	13.7	55D	1F C 1.4	3	E		112			
	SVTO	08	0704E	0707	0712	N16	E74	6197	08	13.9	8D	SF	3	E		17			
	KHAR	08	0740		0750	N13	E72	6197	08	13.7	10	SF	2	V	0740			D	
	SVTO	08	0744	0744	0753	N16	E74	6197	08	13.9	9	SF	3	E		15			
0101	KHAR	08	0730E		0738	S17	W37	6192	08	5.5	8D	SF	2	V	0730			D	
0102	KHAR	08	0842E	0845	0855	N13	E72	6197	08	13.8	13D	SF	2	V	0845			D	
0103	HTPR	08	0950	0955	1015	S17	W38	6192	08	5.5	25	SF		C	0955	80	1.2	T	
0104	HTPR	08	1027	1050	1110	N13	E72	6197	08	13.9	43	SN		C	1050	90		T	
0105		08	10571	1059	1106	N24	E02	6188	08	8.6	9	SN				80	1.5		
	HTPR	08	1057	1059	1108	N25	E04	6188	08	8.8	11	SN		C	1059	140	1.5		
	SVTO	08	1058	1059	1104	N24	E00	6188	08	8.4	6	SF	3	E		20			

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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)
0106	HTPR	08	1215	1228	1250	N13	E70	6197	08	13.8	35	SN		C	1228	90		
0107	HTPR	08	1238	1245	1340	S23	E60		08	13.1	62	SN		C	1245	120		
0108	HTPR	08	1239	1241	1255	S15	W27	6192	08	6.5	16	SN		C	1241	120	1.6	
0109	RAMY	08	1310	1315	1323	N14	E74	6197	08	14.1	13	SF	2	E		26		
0110	HTPR	08	1313	1326	1330	S17	W38	6192	08	5.7	17	SF		C	1326	60	0.8	
0111	HTPR	08	1315	1318	1330	S23	W28	6194	08	6.4	15	SF		C	1318	60	0.8	
0112		08	13348	1346*	1438	N15	E72	6197	08	14.0	64	1N	M 1.9			115		
	HOLL	08	1334	1346	1440	N15	E71	6197	08	13.9	66	1N		E		97		EFHK
	HOLL	08	1334	1358	1440	N15	E71	6197	08	13.9	66	1N	M 1.9	3	E	140		K
	RAMY	08	1340	1346	1435	N15	E74	6197	08	14.2	55	SN		E		54		EH
	RAMY	08	1340	1355	1435	N15	E74	6197	08	14.2	55	SN		E		95		K
	HTPR	08	1342	1356	1440	N13	E70	6197	08	13.8	58	1B		C	1356	190		F
0113	HTPR	08	1400	1408	1413	S17	W36	6192	08	5.8	13	SF		C	1408	60	0.8	
0114		08	1450	1454	1458	N14	E71	6197	08	14.0	8	SN				22		
	HOLL	08	1450	1454	1459	N14	E71	6197	08	14.0	9	SN		3	E	25		
	RAMY	08	1453E	1454	1457	N14	E71	6197	08	14.0	40	SF		2	E	18		
0115		08	1510	15152	1528	N14	E70	6197	08	13.9	18	SN				52		
	HTPR	08	1510	1515	1535	N13	E70	6197	08	13.9	25	SN		C	1515	90		
	HOLL	08	1510	1517	1521	N14	E70	6197	08	13.9	11	SF		3	E	14		
0116	HOLL	08	1600	1601	1608	N14	E69	6197	08	13.9	8	SF		3	E	30		
0117		08	16501	16512	1657	N14	E66	6197	08	13.7	7	SF	C 1.5			30		
	HOLL	08	1650	1651	1657	N14	E66	6197	08	13.7	7	SF		3	E	33		
	RAMY	08	1651	1653	1702D	N15	E66	6197	08	13.7	110	SF	C 1.5	3	E	28		
0118	HOLL	08	1743	1744	1756	S18	W39	6192	08	5.8	13	SF		3	E	16		
0119		08	18014	1808	1832	N14	E68	6197	08	13.9	31	SN	C 2.4			80		
	HOLL	08	1801	1808	1841	N14	E68	6197	08	13.9	40	SB	C 2.4	3	E	93		
	PALE	08	1805	1808U	1824	N14	E68	6197	08	13.9	19	SF		3	E	66		
0120	HOLL	08	1827	1831	1847	N14	W24	6186	08	6.9	20	SF		3	E	21		
0121	PALE	08	1853	1855U	1907	N13	E68	6197	08	13.9	14	SF		3	E	75		
0122	PALE	08	1929	1930	1942	N13	E67	6197	08	13.9	13	SF		3	E	18		
0123	PALE	08	2005	2010	2019	N14	E68	6197	08	14.0	14	SF		3	E	26		
0124	PALE	08	2021	2025	2033	N14	E66	6197	08	13.8	12	SF		3	E	28		F
0125	HOLL	08	2108E	2110U	2118	N14	E66	6197	08	13.9	100	SF		2	E	33		F
0126	HOLL	08	2157	2157	2202	N13	E65	6197	08	13.8	5	SF		3	E	23		E
0127		08	23421	2345*	2441	N14	E66	6197	08	14.0	59	1F	C 9.6			95		
	HOLL	08	2342	2347	2425	N14	E66	6197	08	14.0	43	1N	C 9.6	3	E	107		EK
	PALE	08	2343	2345	2513	N15	E65	6197	08	13.9	90	1F		3	E	102		E
	PALE	08	2343	2458	2513	N15	E65	6197	08	13.9	90	SF			E	43		K
	LEAR	08	2356E	2357U	2422	N14	E66	6197	08	14.0	260	SF		3	E	99		
	PEKG	09	0005E	0006	0013	N14	E67	6197	08	14.1	80	1N		P	0006	126		E
0128		09	0027*	0028*	0108	N13	E63	6197	08	13.8	41	SN				42		K
	HOLL	09	0027	0028	0110	N13	E64	6197	08	13.8	43	SN			E	31		K
	HOLL	09	0027	0045	0110	N13	E64	6197	08	13.8	43	SN		3	E	45		
	LEAR	09	0040	0045	0104	N13	E62	6197	08	13.7	24	SF		3	E	51		
0129	LEAR	09	0201	0205	0209	N13	E61	6197	08	13.7	8	SF		3	E	20		

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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	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
0130		09	0235*	0239*	0324	N15 E62	6197	08	13.8	49	SN					65		E
	LEAR	09	0235	0318	0342	N15 E60	6197	08	13.6	67	SF	3	E			56		
	PALE	09	0239	0239	0254	N14 E65	6197	08	14.0	15	SF	3	E			36		
	TACH	09	0301	0301	0336	N15 E65	6197	08	14.0	35	1B	3	C	0301		153		E
	PALE	09	0303	0317	0326	N15 E60	6197	08	13.7	23	SF	3	E			14		
0131		09	0536	0540*	0606	N13 E61	6197	08	13.8	30	1N					104	2.0	E
	TACH	09	0536	0540	0549	N14 E63	6197	08	14.0	13	1N	3	C	0540		102	2.1	E
	ATHN	09	0543E	0543U	0602D	N12 E58	6197	08	13.6	19D	1N	3	V	0543		127	2.3	
	PURP	09	0603E	0605	0624	N14 E62	6197	08	13.9	21D	SF		C	0605		83	1.7	E
0132	KANZ	09	0652	0652	0656	S35 E62	6202	08	14.2	4	SF		V					
0133		09	0723*	0732*	0756	N14 E60	6197	08	13.8	33	SF	C 3.5				98	2.3	ET
	HTPR	09	0723	0732	0738	N13 E60	6197	08	13.8	15	SF		C	0732		60	1.2	T
	BUCA	09	0740	0744	0805	N15 E62	6197	08	14.0	25	SN		C	0744		64	1.4	
	HTPR	09	0742	0744	0800	N13 E60	6197	08	13.8	18	1N		C	0744		120	2.4	
	KHAR	09	0745U	0751U	0755	N13 E59	6197	08	13.8	10U	1F	2	P	0745		220	4.3	ET
	SVTO	09	0746E	0750U	0800	N16 E61	6197	08	13.9	14D	SF	C 3.5	2	E		28		
0134	KHAR	09	0755	0758	0803	N17 W90	6201	08	2.5	8	SN	2	P	0801		100		DR
0135		09	0945*	10037	1017	N14 E59	6197	08	13.9	32	SF					90	1.8	DT
	HTPR	09	0945	1003	1015	N13 E60	6197	08	13.9	30	SF		C	1003		90	1.8	
	KANZ	09	0959	1010	1014D	N15 E59	6197	08	13.9	15D	SF		V					
	KHAR	09	1000	1003	1019	N13 E59	6197	08	13.9	19	SN	2	V	1003				DT
0136		09	10083	10123	1032	S35 E63	6202	08	14.5	24	SN					28		
	HTPR	09	1008	1015	1045	S35 E62	6202	08	14.4	37	SN		C	1015		40		
	SVTO	09	1011	1012	1020	S35 E64	6202	08	14.5	9	SF	3	E			17		
0137	KHAR	09	1035	1036	1043	N14 E61	6197	08	14.0	8	SF	2	V	1036				DHT
0138	SVTO	09	1113	1116	1120	N16 E58	6197	08	13.9	7	SF	3	E			18		
0139	RAMY	09	1150	1208	1220	N16 E60	6197	08	14.0	30	SF	2	E			20		F
0140		09	12384	12454	1307	S10 E54	6200	08	13.6	29	SF					36	1.0	
	HTPR	09	1238	1245	1315	S11 E55	6200	08	13.7	37	SF		C	1245		60	1.0	
	RAMY	09	1242	1249	1259	S09 E54	6200	08	13.6	17	SF	3	E			13		
0141	RAMY	09	1249	1249	1256	S34 E61	6202	08	14.4	7	SF	3	E			12		
0142	HTPR	09	1315	1330	1430	N13 E60	6197	08	14.1	75	1F		C	1330		120	2.3	T
0143		09	1525	15291	1554	N15 E58	6197	08	14.0	29	SF	C 1.8				52	1.6	FHT
	RAMY	09	1525	1529	1543	N16 E58	6197	08	14.0	18	SF	3	E			34		H
	SVTO	09	1525	1529	1547	N16 E55	6197	08	13.8	22	SF	3	E			40		F
	HOLL	09	1525	1530	1554	N15 E57	6197	08	13.9	29	SF	C 1.8	4	E		54		
	HTPR	09	1525	1530	1612	N13 E60	6197	08	14.2	47	SF		C	1530		80	1.6	T
0144	HOLL	09	1546	1547	1555	S08 W50	6187	08	5.9	9	SF	4	E			26		
0145	PALE	09	1907	1908	1914	N25 W16	6188	08	8.5	7	SF	3	E			14		
0146	HOLL	09	1913E	1914U	1928D	N14 E85	6203	08	16.2	15D	SF	3	E			36		F
0147	HOLL	09	2010	2010	2020	N23 W23	6188	08	8.1	10	SF	3	E			19		
0148		09	20283	20312	2104	N15 E52	6197	08	13.8	36	SN	C 3.8				79		FH
	HOLL	09	2028	2031	2112	N15 E50	6197	08	13.6	44	SN	3	E			94		H
	PALE	09	2031	2033	2057	N15 E54	6197	08	13.9	26	SF	C 3.8	3	E		64		F
0149		10	07155	07171	0723	S18 E18	6205	08	11.7	8	SN					30	0.4	DHT
	HTPR	10	0715	0718	0725	S18 E18	6205	08	11.7	10	SN		C	0718		30	0.4	HT
	KANZ	10	0717	0717	0721	S18 E18	6205	08	11.7	4	SF		V					
	ISTA	10	0720		0745D	S17 E17	6205	08	11.6	25D	SN		V					D

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Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0150		10	07398	07462	0752	N20	E80	6203	08	16.4	13	SF					51			
	HTPR	10	0739	0746	0755	N20	E80	6203	08	16.4	16	SN			C	0746	80			
	KANZ	10	0747	0747	0751	N20	E78	6203	08	16.3	4	SF			V					
	SVTO	10	0747	0748	0751	N20	E82	6203	08	16.6	4	SF		3	E		22			
0151		10	0748*	08315	0857	N16	E48	6197	08	14.0	69	SF					76	2.0	T	
	SVTO	10	0748	0831	0854	N17	E48	6197	08	14.0	66	SF		3	E		21			
	HTPR	10	0830	0836	0900	N15	E47	6197	08	13.9	30	SF			C	0836	130	2.0	T	
0152		10	11381	11432	1159	N16	E46	6197	08	14.0	21	SF					70	1.9	T	
	HTPR	10	1138	1145	1200	N15	E47	6197	08	14.0	22	SF			C	1145	120	1.9	T	
	SVTO	10	1139	1143	1158	N16	E45	6197	08	13.9	19	SF		3	E		19			
0153	HTPR	10	1405	1410	1430	N20	W30	6188	08	8.3	25	SN			C	1410	60	0.8		
0154	HTPR	10	1415	1420	1440D	S18	E16	6205	08	11.8	25D	SN			C	1420	90	1.0	HT	
0155		10	14227	14245	1444	N14	E44	6197	08	13.9	22	SF					45	1.5		
	HTPR	10	1422	1428	1440D	N13	E45	6197	08	14.0	18D	SN			C	1428	110	1.5		
	SVTO	10	1424	1424	1440	N16	E43	6197	08	13.9	16	SF		3	E		16			
	RAMY	10	1429	1429	1448	N14	E43	6197	08	13.8	19	SF		2	E		10			
0156	HOLL	10	1523	1548	1556	N18	E77	6203	08	16.5	33	SF		3	E		42			
0157	HOLL	10	1721	1721	1732	N24	W33	6188	08	8.2	11	SF		3	E		13			
0158		10	1743*	1814*	2005	N19	E73	6203	08	16.3	142	2B M	7.9				323			FHKUY
	HOLL	10	1743	1815	2106	N18	E74	6203	08	16.4	203	2B M	7.9	3	E		401			UY
	HOLL	10	1743	1914	2106	N18	E74	6203	08	16.4	203	2B			E		307			K
	RAMY	10	1809	1814	1912	N20	E72	6203	08	16.3	63	2B M	7.9	3	E		339			FH
	PALE	10	1809	1815	1948	N19	E71	6203	08	16.2	99	2B M	7.9	3	E		311			YF
	RAMY	10	1809	1839	1912	N20	E72	6203	08	16.3	63	2N			E		258			K
0159		10	19082	19123	1930	S11	W28	6196	08	8.7	22	SF					32			F
	HOLL	10	1908	1915	1944	S11	W28	6196	08	8.7	36	SF		3	E		43			F
	PALE	10	1910	1912	1916	S11	W29	6196	08	8.6	6	SF		3	E		21			F
0160	HOLL	10	1932	1932	1942	N15	E42	6197	08	14.0	10	SF		3	E		11			
0161		10	19531	1954	2008	N22	W38	6188	08	7.9	15	SF					31			
	PALE	10	1953	1954	1958	N22	W38	6188	08	7.9	5	SF		3	E		11			
	HOLL	10	1954	1954	2019	N21	W37	6188	08	8.0	25	SF		3	E		51			
0162		10	2001	20054	2018	N16	E42	6197	08	14.0	17	SF					17			F
	HOLL	10	2001	2005	2025	N15	E41	6197	08	13.9	24	SF		3	E		21			F
	PALE	10	2001	2009	2012	N16	E42	6197	08	14.0	11	SF		3	E		13			
0163	HOLL	10	2103	2107	2114	N23	W32	6188	08	8.4	11	SF		3	E		19			F
0164	VORO	10	2223	2224	2228D	N18	W53	6186	08	6.9	5D	1N		1	C	2224	242	3.9	EIJT	
0165		10	2318*	2334*	2415	N24	W37	6188	08	8.1	57	1F C	3.7				76			EFIJT
	VORO	10	2301U	2312U	2355U	N24	W36	6188	08	8.2	54U	3F		1	V					EIJT
	LEAR	10	2318	2346	2406	N24	W37	6188	08	8.1	48	SF C	3.7	3	E		77			
	HOLL	10	2334	2334	2424	N24	W37	6188	08	8.1	50	SF		3	E		75			F
0166		11	02353	02411	0252	N17	W55	6186	08	6.9	17	1F					92	2.7		
	LEAR	11	0235	0242	0247	N17	W55	6186	08	6.9	12	SF		3	E		35			
	MITK	11	0238	0241	0258	N17	W55	6186	08	6.9	20	1F			C	0241	150	2.7		
0167	TACH	11	0417	0519	0524	S40	E20	6204	08	12.8	67	SB		3	C	0519	168	1.8	EG	
0168	YUNN	11	0624E	0624U	0625D	S13	E19	6195	08	12.7	1D	SN			P	0624	63	0.7	E	
0169		11	07422	07454	0800	S09	E28	6200	08	13.4	18	SF					26			
	SVTO	11	0742	0745	0800	S09	E28	6200	08	13.4	18	SF		3	E		30			
	LEAR	11	0744	0749	0800	S09	E29	6200	08	13.5	16	SF		3	E		21			
0170	KHAR	11	0925	0926	0938	N20	E90	6209	08	18.3	13	SF		1	V	0926				DH

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
								Region	Class							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0171		11	10021	10042	1012	N18	W60	6186	08	6.8	10	SF					64	2.0	EL	
	KANZ	11	1002	1006	1013	N18	W59	6186	08	6.9	11	SF			V					
	KHAR	11	1003		1018U	N20	W62	6186	08	6.7	15U	SF			P	1008	110	2.0	EL	
	SVTO	11	1003	1004	1012	N17	W59	6186	08	6.9	9	SF			E		17			
0172		11	15128	15211	1528	N23	E82	6209	08	17.9	16	SF					18		AT	
	HTPR	11	1512	1522	1530	N22	E85	6209	08	18.2	18	SN			C				AT	
	HOLL	11	1520	1521	1527	N24	E81	6209	08	17.9	7	SF			E	3	18			
	KANZ	11	1521E	1521U	1529D	N24	E80	6209	08	17.8	8D	SF			V					
0173		11	1545*	1553	1610	N20	E90	6209	08	18.5	25	N							AT	
	HTPR	11	1545	1553	1600	N22	E90	6209	08	18.6	15	N			C				AT	
	HTPR	11	1605		1620	N18	E90	6209	08	18.5	15	N			C				AT	
0174	HOLL	11	1742	1743	1808	N20	E60	6203	08	16.3	26	SF			E	3	33			
		11	1942		1956	No Flare Patrol														
		11	2018		2024	No Flare Patrol														
		11	2139		2141	No Flare Patrol														
		11	2150		2154	No Flare Patrol														
0175	HOLL	11	2207	2211	2216	N12	E40	6199	08	14.9	9	SF	C 1.4	3	E		20		F	
0176	LEAR	12	0400	0401	0408	N23	W70	6185	08	6.8	8	SF			E	3	27			
0177	LEAR	12	0400	0402	0414	N18	E55	6203	08	16.3	14	SF			E	3	30			
0178		12	0527*	05421	0557	N12	E34	6199	08	14.8	30	SN	C 1.8				108	1.8	DEF	
	TACH	12	0527	0543	0600	N12	E35	6199	08	14.9	33	1B		3	C	0543	250	3.1	E	
	SVTO	12	0535	0542	0604	N14	E34	6199	08	14.8	29	SF	C 1.8	3	E		81		F	
	URUM	12	0535	0543	0550	N11	E33	6199	08	14.7	15	SF			C		48	0.6	D	
	LEAR	12	0537	0542	0553	N13	E33	6199	08	14.7	16	SF	C 1.8	3	E		54		F	
0179	SVTO	12	1246	1247	1252	N21	W55	6188	08	8.3	6	SF			E	3	16			
0180	HOLL	12	1714	1716	1719	N12	E28	6199	08	14.8	5	SF			E	3	17		F	
0181		12	1939*	19534	2010	N12	E27	6199	08	14.8	31	SF					17		F	
	PALE	12	1939	1953	2018	N12	E27	6199	08	14.8	39	SF			E	3	22		F	
	RAMY	12	1957	1957	2002	N12	E27	6199	08	14.9	5	SF			E	3	12		F	
0182	PALE	12	2025	2035	2036	N12	E27	6199	08	14.9	11	SF			E	3	16			
0183	PALE	12	2030	2033	2037	N13	E16	6197	08	14.1	7	SF			E	3	17			
0184		12	21013	2108	2200	N12	E27	6199	08	14.9	59	SF					21			
	PALE	12	2101	2108	2201	N12	E28	6199	08	15.0	60	SF			E	3	31			
	RAMY	12	2104	2105U	2200	N12	E26	6199	08	14.8	56	SF			E	2	15			
	HOLL	12	2147E	2147U	2158D	N11	E28	6199	08	15.0	11D	SF			E	1	18			
0185	LEAR	13	0006	0008	0011	N22	E76	6209	08	18.8	5	SF			E	3	17			
		13	0023		0028	No Flare Patrol														
0186		13	0033*	0035*	0102	N13	E24	6199	08	14.8	29	SF	C 3.5				44	0.5	F	
	LEAR	13	0033	0035U	0118D	N13	E23	6199	08	14.7	45D	SF		3	E		60			
	PALE	13	0034	0035	0047	N13	E25	6199	08	14.9	13	SF	C 3.5	3	E		55		F	
	PALE	13	0048	0055	0114	N14	E24	6199	08	14.8	26	SF	C 3.5	3	E		21		F	
	PURP	13	0052	0101U	0105	N13	E24	6199	08	14.8	13	SF			C	0101	41	0.5		
0187	PURP	13	0045E	0047U	0049	N23	E72	6209	08	18.6	4D	SB			P	0047	34			
0188	PALE	13	0334	0336	0340	N14	E22	6199	08	14.8	6	SF			E	3	17			
0189		13	03557	04045	0434	S11	E03	6200	08	13.4	39	SN					74	1.3	E	
	TACH	13	0355	0406	0459U	S13	E04	6200	08	13.5	64U	SN		3	C	0406	173	1.9	E	
	PURP	13	0359	0404	0422	S10	E03	6200	08	13.4	23	SB			C	0404	69	0.7	E	
	PALE	13	0402	0409	0427	S11	E02	6200	08	13.3	25	SF			E	3	21			
	LEAR	13	0405E	0405U	0454	S10	E03	6200	08	13.4	49D	SF			E	3	32			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF				Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks		
						Lat	Cmd	Region	Mo							Day	Apparent (10-6 Disk)		Corr (Sq Deg)	
0190		13	0406*	0428I	0452	N20	E42	6203	08	16.4	46	SN	C	3.4		96	1.4	FU		
	TACH	13	0406		0448	N21	E42	6203	08	16.4	42	SN			3	C	0436	117	1.6	U
	PALE	13	0424	0428	0441	N21	E40	6203	08	16.2	17	SF	C	3.4	3	E		70		F
	PURP	13	0424	0429	0446	N20	E39	6203	08	16.2	22	SN				C	0429	83	1.1	U
	LEAR	13	0430E	0430U	0513	N19	E45	6203	08	16.6	43D	1F			3	E		116		F
0191		13	06333	06353	0642	N23	E73	6209	08	18.9	9	SN	C	1.3				29		
	PURP	13	0633	0635	0642	N23	E71	6209	08	18.7	9	SB				C	0635	34		
	YUNH	13	0634	0638	0643	N22	E72	6209	08	18.8	9	SN				P		31		
	SVTO	13	0635	0636	0642	N24	E76	6209	08	19.1	7	SF	C	1.3	3	E		23		
	KANZ	13	0636	0636	0640	N22	E74	6209	08	19.0	4	SF				V				
0192		13	09212	09272	0953	N14	E18	6199	08	14.7	32	1F	M	1.0				110		
	SVTO	13	0921	0929	0959	N14	E17	6199	08	14.7	38	1F	M	1.0	3	E		110		
	KANZ	13	0923	0927	0947	N14	E18	6199	08	14.7	24	1F				V				
0193		13	13124	1321*	1532	N15	E09	6197	08	14.2	140	1N	M	1.4				145		DFHK
	SVTO	13	1312	1341	1547	N14	E10	6197	08	14.3	155	1N			3	E		152		FH
	RAMY	13	1313	1321	1535	N17	E10	6197	08	14.3	142	1B	M	1.4	3	E		137		F
	RAMY	13	1313	1346	1535	N17	E10	6197	08	14.3	142	1B				E		145		K
	KANZ	13	1316	1339	1512	N13	E10	6197	08	14.3	116	1N				V				
	HURB	13	1319E	1322	1342D	N15	E07	6197	08	14.1	23D	SN								
0194		13	1410	1412	1420	N21	E34	6203	08	16.2	10	SF						30		F
	RAMY	13	1410	1412	1420	N21	E34	6203	08	16.2	10	SF			3	E		28		F
	SVTO	13	1410	1412	1421	N21	E34	6203	08	16.2	11	SF			3	E		32		F
0195		13	14214	14243	1458	N14	E14	6199	08	14.6	37	SF						26		F
	SVTO	13	1421	1424	1516	N14	E14	6199	08	14.6	55	SF			3	E		28		F
	RAMY	13	1425	1427	1440	N14	E15	6199	08	14.7	15	SF			3	E		25		F
0196	RAMY	13	1502	1507	1510	N19	E39	6203	08	16.6	8	SF			3	E		24		
		13	1730		1735	No Flare Patrol														
		13	1737		1751	No Flare Patrol														
0197	PALE	13	1813E	1815U	1823D	N13	E14	6199	08	14.8	10D	SF			3	E		28		F
		13	1842		1851	No Flare Patrol														
0198	PALE	13	1900E	1903U	1914D	N13	E13	6199	08	14.8	14D	SF			3	E		21		
0199	PALE	13	2020E	2020U	2035D	N14	E02	6197	08	14.0	15D	SF			3	E		14		
0200		13	2226	2227	2308	N21	E32	6203	08	16.4	42	1B	C	8.5				140		EU
	HOLL	13	2226E	2226U	2319	N20	E31	6203	08	16.3	53D	1B			2	E		157		
	PALE	13	2226	2227	2257	N22	E32	6203	08	16.4	31	1N	C	8.5	3	E		122		UE
0201	KAND	14	0807	0809	0830	N12	E04	6199	08	14.6	23	1B				P	0809	395	4.1	E
0202		14	09062	09078	0923	N11	E05	6199	08	14.7	17	SF	C	3.3				58	0.7	EF
	URUM	14	0906	0915	0922	N11	E04	6199	08	14.7	16	SF				C		64	0.7	E
	HURB	14	0907E	0907	0918D	N10	E08	6199	08	15.0	11D	1F								
	SVTO	14	0907	0911	0923	N12	E05	6199	08	14.7	16	SF	C	3.3	3	E		52		F
	KANZ	14	0908	0912	0924	N12	E04	6199	08	14.7	16	SF				V				
0203	HURB	14	1010E	1043	1050D	N10	E08	6199	08	15.0	40D	SN								D
0204	SVTO	14	1047	1053	1106	N14	W06	6197	08	14.0	19	SF			3	E		25		
0205	HTPR	14	1205	1212	1225	N12	E05	6199	08	14.9	20	SF				C	1212	100	1.0	
0206		14	14314	14324	1444	N23	E48	6209	08	18.3	13	SF						30	0.6	DH
	HTPR	14	1431	1436	1439D	N20	E48	6209	08	18.3	8D	SN				C	1436	40	0.6	DH
	HOLL	14	1432	1432	1445	N24	E48	6209	08	18.3	13	SF			3	E		21		
	KANZ	14	1435	1435	1443	N24	E47	6209	08	18.2	8	SF				V				
0207	HOLL	14	1639	1649	1717	N13	W09	6197	08	14.0	38	SF			3	E		27		F

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Grp #	Sta	Start Day	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)	
0208	14	17065	17101	1716	N25	E47	6209	08 18.3	10	SF				48		F	
	HOLL	14 1706	1710	1718	N25	E47	6209	08 18.3	12	SF	3	E		85		F	
	RAMY	14 1709	1710	1717	N26	E46	6209	08 18.3	8	SF	3	E		29			
	PALE	14 1711	1711	1714	N25	E47	6209	08 18.3	3	SF	3	E		31			
0209	14	19452	19481	2030	N20	E18	6203	08 16.2	45	1F C 1.8				74		F	
	HOLL	14 1945	1948	2046	N20	E18	6203	08 16.2	61	1F C 1.8	3	E		107		F	
	PALE	14 1947	1949	2013	N21	E19	6203	08 16.3	26	SF	3	E		41			
0210	HOLL	14 2048	2056	2116	S02	E20	6211	08 16.4	28	SF	3	E		26			
		14 2118		2125	No Flare Patrol												
0211	14	2205	2208	2217	N22	E44	6209	08 18.3	12	SF C 2.3				44		E	
	HOLL	14 2205	2208	2217	N22	E43	6209	08 18.2	12	SF C 2.3	3	E		60		E	
	PALE	14 2206E	2206U	2226D	N23	E45	6209	08 18.4	20D	SF	3	E		27			
0212	LEAR	15 0137	0153	0210	S13	W26	6195	08 13.1	33	SF C 1.5	3	E		21		F	
0213	KHAR	15 0815E		0828	N07	W37	6213	08 12.6	13D	SF	2	V	0815			EH	
0214	KHAR	15 0837U		0845	S29	E63	6212	08 20.3	8U	SF	2	V	0840			D	
0215	URUM	15 0910	0917	0934	N15	W21	6197	08 13.8	24	SF		C		32	0.4	E	
0216	KHAR	15 1103	1105	1110	S16	E24	6206	08 17.3	7	SF	2	V	1105			DL	
0217	KHAR	15 1108	1110	1116	S29	E63	6212	08 20.4	8	SF	2	V	1110			DH	
		15 1452		1457	No Flare Patrol												
0218	RAMY	15 1545	1545	1618	N05	W40	6213	08 12.7	33	SF C 4.9	3	E		37		FH	
		15 1658		1659	No Flare Patrol												
0219	15	19412	19463	2005	S16	E19	6206	08 17.3	24	SF C 5.5				36		EF	
	PALE	15 1941	1949	2009	S16	E21	6206	08 17.4	28	SF C 5.5	3	E		27			
	RAMY	15 1943	1946	2001	S16	E17	6206	08 17.1	18	SF	3	E		26		F	
	HOLL	15 1951E	1952U	2005D	S17	E19	6206	08 17.3	14D	SF	2	E		54		E	
		15 2022		2028	No Flare Patrol												
	15 2038		2133	No Flare Patrol													
0220	15	2327	2306*	2324	S17	E19	6206	08 17.4	1437	SF				30		EF	
	HOLL	15 2257E	2307U	2336D	S17	E17	6206	08 17.2	39D	SF	2	E		48		E	
	PALE	15 2303E	2306	2316	S16	E19	6206	08 17.4	13D	SF	3	E		25		F	
	LEAR	15 2327	2330	2332	S18	E20	6206	08 17.5	5	SF	3	E		16			
0221	YUNN	16 0112	0113	0120	S11	E52	6214	08 20.0	8	SN		C		47	0.8		
0222	16	01424	0146	0158	S17	E14	6206	08 17.1	16	SN C 2.4				44	0.9		
	YUNN	16 0142	0156U	0200	S17	E14	6206	08 17.1	18	SN		P	0156	79	0.9		
	LEAR	16 0146	0146	0156	S17	E15	6206	08 17.2	10	SF C 2.4	3	E		10			
0223	16	02091	02114	0229	S10	E46	6214	08 19.5	20	SN				74	1.2		
	YUNN	16 0209	0211	0230	S10	E49	6214	08 19.8	21	SN		C		94	1.6		
	PURP	16 0210	0215	0228	S11	E44	6214	08 19.4	18	SF		C	0215	55	0.8		
0224	16	0354*	0355*	0414	S17	E14	6206	08 17.2	20	SN C 2.2				74	1.2	DF	
	TACH	16 0354	0355	0407	S17	E14	6206	08 17.2	13	1N	3	C	0355	178	2.1	D	
	LEAR	16 0402	0405	0413	S17	E14	6206	08 17.2	11	SF	3	E		28		F	
	PURP	16 0403	0407	0415	S17	E15	6206	08 17.3	12	SN		C	0407	69	0.8		
	PALE	16 0404	0404	0416	S16	E16	6206	08 17.4	12	SF C 2.2	3	E		30			
	URUM	16 0404E	0404	0420	S19	E13	6206	08 17.2	16D	SN		C		64	0.8	D	
0225	TACH	16 0523	0523	0533	N25	E30	6209	08 18.5	10	1B	3	C	0523	316	3.9	EV	
0226	16	0722	0725	0740	S17	E12	6206	08 17.2	18	SB				96	1.1	E	
	HTPR	16 0722	0725	0740	S17	E12	6206	08 17.2	18	SB		C	0725	130	1.5		
	YUNN	16 0725E	0734U	0740	S17	E13	6206	08 17.3	15D	SN		P	0734	63	0.7	E	

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/ USAF			CMP Mo	Dur Day	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region	Lat	Cmd								Apparent (10-6 Disk)	Corr (Sq Deg)	
0227	HTPR	16	0821	0832	0845	S17 E12	6206	08	17.2	24	SF		C	0832	40	0.5		
0228		16	0831	0836	0846	S12 E41	6214	08	19.4	15	SB				81	1.2	D	
	HTPR	16	0831	0837	0850	S12 E41	6214	08	19.4	19	SB		C	0837	100	1.4		
	KAND	16	0832	0836	0842	S12 E41	6214	08	19.4	10	SN		P	0836	62	0.9	D	
0229	KHAR	16	0848		0900	S31 E53	6212	08	20.5	12	SF	2	V	0848			D	
0230	KHAR	16	0850	0852	0857	N14 W24	6197	08	14.5	7	SF	2	V	0855	35	0.4	D	
0231	KHAR	16	1008	1009	1020	S04 E02	6211	08	16.6	12	SF	2	P	1011	50	0.5	DL	
0232		16	11035	11062	1120	S16 E10	6206	08	17.2	17	SN				71	1.0	EFH	
	HTPR	16	1103	1106	1120	S15 E09	6206	08	17.1	17	SN		C	1106	120	1.3		
	KHAR	16	1105	1106	1120	S17 E10	6206	08	17.2	15	SN	2	P	1110	65	0.8	EH	
	KANZ	16	1108	1108	1120	S16 E10	6206	08	17.2	12	SF		V					
	SVTO	16	1109E	1110U	1120	S17 E11	6206	08	17.3	11D	SF	3	E		27		F	
0233		16	12105	12161	1227	N09 E08	6216	08	17.1	17	SF				109	1.8	FG	
	HTPR	16	1210	1216	1235	N08 E10	6216	08	17.2	25	SF		C	1216	180	1.8	G	
	RAMY	16	1212	1217	1221	N10 E07	6216	08	17.0	9	SF	3	E		38		F	
	KANZ	16	1215	1221U	1225	N09 E08	6216	08	17.1	10	SF		V					
0234	HTPR	16	1341	1344	1355	S12 E40	6214	08	19.6	14	SF		C	1344	90	1.2		
0235		16	14109	1424	1435	N02 W08	6208	08	16.0	25	SN	C 1.9			130	1.6	F	
	HOLL	16	1410	1421U	1424D	N02 W09	6208	08	15.9	14D	SF	C 1.9	2	E	99		F	
	HTPR	16	1419	1424	1435	N03 W08	6208	08	16.0	16	SN		C	1424	160	1.6		
0236	HOLL	16	1448	1448	1459	N08 E06	6216	08	17.1	11	SF	3	E		16			
0237	HTPR	16	1543	1545	1615	S35 W30		08	14.2	32	1N		C	1545	180	2.8	GL	
0238	HTPR	16	1555	1602	1615	S12 E38	6214	08	19.5	20	SN		C	1602	130	1.8		
0239	HOLL	16	1634	1635	1642	N12 W26	6199	08	14.7	8	SF	3	E		31			
0240		16	1640*	1640*	1714	S10 E39	6214	08	19.6	34	SF	C 1.7			51	1.5	EK	
	HTPR	16	1640E	1640	1745D	S12 E40	6214	08	19.7	65D	SN		C	1640	110	1.5	EK	
	RAMY	16	1640	1655	1713	S09 E37	6214	08	19.5	33	SF	2	E		29			
	PALE	16	1654	1658	1714	S08 E39	6214	08	19.6	20	SF	C 1.7	3	E		13		
0241	PALE	16	1657	1702	1704	N12 W26	6199	08	14.7	7	SF	3	E		15			
0242		16	1824	1833	1902	N10 W23	6199	08	15.0	38	SF	C 2.4			94		F	
	RAMY	16	1824	1833	1902	N10 W23	6199	08	15.0	38	SF	C 2.4	2	E	60		F	
	PALE	16	1824	1834	1909D	N10 W23	6199	08	15.0	45D	SF	C 2.4	3	E	60		F	
	HOLL	16	1835E	1835U	1905D	N10 W23	6199	08	15.0	30D	1F	C 2.4	1	E	162			
0243	HOLL	16	2117	2119	2151	N22 E12	6209	08	17.8	34	SF	C 1.6	3	E		26		F
0244	HOLL	16	2139	2140	2145	N13 E70	6219	08	22.2	6	SF		3	E		23		
0245		16	2346	2349	2400	S18 E04	6206	08	17.3	14	SF	C 1.6			58	1.5	EH	
	VORO	16	2346	2349	2359	S18 E03	6206	08	17.2	13	SF		2	C	2349	134	1.5	EH
	MITK	16	2346	2349	2408	S17 E03	6206	08	17.2	22	SF		C	2349				
	LEAR	16	2346	2351	2357	S18 E04	6206	08	17.3	11	SF	C 1.6	3	E		21		
	PALE	16	2347	2352	2356	S17 E05	6206	08	17.4	9	SF		3	E		20		H
0246	LEAR	17	0333	0335	0340	S11 E33	6214	08	19.6	7	SF		3	E		22		F
0247		17	0630	0632	0636	S18 E01	6206	08	17.3	6	SF				14			
	SVTO	17	0630	0632	0637	S18 E02	6206	08	17.4	7	SF		3	E	16			
	LEAR	17	0631	0633	0635	S18 E01	6206	08	17.3	4	SF		3	E	12			
	KANZ	17	0632	0632	0636	S18 E01	6206	08	17.3	4	SF		V					
0248	YUNN	17	0734	0740	0807	N16 W34	6199	08	14.7	33	SN		C		31	0.4		
0249	KHAR	17	0858U	0902	0905	N12 W36	6199	08	14.7	7U	SF	2	V	0902			DL	



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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
					Lat	Chd	Region							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0250		17 09194	09255	0937	S13	W61	6195	08 12.8	18	SF	C 2.3			60	2.2	DF	
	SVTO	17 0919	0930	1000D	S15	W65	6195	08 12.5	41D	SF	C 2.3	3	E	27		F	
	SVTO	17 0920	0928	1000D	S14	W68	6195	08 12.2	40D	SF	C 2.3	3	E	19			
	KHAR	17 0922	0925	0934	S12	W57	6195	08 13.1	12	SF		2	P	0927	75	1.3	D
	LEAR	17 0923	0929	0937	S13	W58	6195	08 13.0	14	SF		2	E		30		F
	HTPR	17 0925E	0925	0940	S13	W56	6195	08 13.2	15D	1N			C	0925	150	3.0	
0251	KHAR	17 1055	1056	1105	S08	W63	6195	08 12.7	10	SF		2	P	1059	85	1.8	D
0252	KHAR	17 1059	1100	1111D	N12	W36	6199	08 14.7	12D	SF		2	P	1059	110	1.3	DL
0253	RAMY	17 1125	1126	1131	N12	E62	6219	08 22.1	6	SF	C 2.4	3	E		13		
0254		17 11433	11532	1208	N02	W22	6208	08 15.8	25	SF				86	1.3	F	
	HTPR	17 1143	1155	1200	N02	W20	6208	08 16.0	17	SF			C	1155	120	1.3	
	RAMY	17 1146	1153	1215	N02	W23	6208	08 15.8	29	SF		3	E		53		F
0255		17 12001	1201	1210	N06	W66	6213	08 12.6	10	SF				50		D	
	KAND	17 1200	1201	1210	N06	W68	6213	08 12.4	10	SF			P	1201	83		D
	RAMY	17 1201	1201	1210	N05	W65	6213	08 12.6	9	SF		3	E		16		
0256	SVTO	17 1322	1323	1327	N02	W68	6213	08 12.5	5	SF		3	E		21		
0257	RAMY	17 1330	1330	1335	S11	W65	6195	08 12.7	5	SF		3	E		14		
0258	HTPR	17 1500	1511	1520	S18	E66	6222	08 22.6	20	SN			C	1511	90		E
0259	RAMY	17 1527	1530	1536	S17	E00	6206	08 17.6	9	SF		3	E		16		
0260	HTPR	17 1530		1615D	S20	E65	6222	08 22.6	45D	SN			C	1540	30		DHT
0261	RAMY	17 1601	1602	1618	N03	W23	6208	08 15.9	17	SF		3	E		26		
0262	PALE	17 1725	1726	1732	N05	W10	6216	08 17.0	7	SF		3	E		15		
0263	RAMY	17 1803	1804	1810	N20	E61	6225	08 22.4	7	SF		3	E		12		
0264	PALE	17 1824	1824	1832	N08	W10	6216	08 17.0	8	SF		3	E		19		
0265		17 1852	18541	1900	S10	E22	6214	08 19.4	8	SF	C 2.2			31		F	
	HOLL	17 1852E	1852U	1909D	S09	E20	6214	08 19.3	17D	SF		2	E	24		F	
	RAMY	17 1852	1854	1900	S09	E22	6214	08 19.4	8	SN	C 2.2	3	E	31			
	PALE	17 1852	1855	1900	S11	E25	6214	08 19.7	8	SF		3	E	39		F	
0266		17 19122	19161	1938	S17	W02	6218A	08 17.6	26	SF				40		FH	
	PALE	17 1912	1917	1936	S18	E01	6218A	08 17.9	24	SF		3	E	46		H	
	RAMY	17 1914	1916	1939	S17	W01	6218A	08 17.7	25	SF		3	E	44		H	
	HOLL	17 1914	1919U	1949D	S17	W05	6218A	08 17.4	35D	SF		2	E	31		F	
0267	RAMY	17 1925	1927	1931	S11	E72	6223	08 23.2	6	SF		3	E		37		
0268		17 21038	21059	2113	S10	E20	6214	08 19.4	10	SF				21		F	
	HOLL	17 2103	2105	2108	S10	E21	6214	08 19.4	5	SF		3	E	21		F	
	HOLL	17 2111	2114	2118	S10	E19	6214	08 19.3	7	SF		3	E	21		F	
0269	HOLL	17 2113	2113	2117	N06	W13	6216	08 16.9	4	SF		3	E		17		F
0270	PALE	17 2140	2141	2147	S10	E20	6214	08 19.4	7	1F	C 4.0	3	E		101		F
0271		17 2141*	21508	2159	N06	W14	6216	08 16.8	18	SF				16		F	
	PALE	17 2141	2150	2151	N05	W13	6216	08 16.9	10	SF		3	E	14			
	HOLL	17 2157	2158	2207	N06	W14	6216	08 16.9	10	SF		3	E	18		F	
0272	PALE	17 2243	2245	2302	N05	W14	6216	08 16.9	19	SF	C 9.1	3	E		30		
0273	LEAR	17 2331	2331	2339	N06	W15	6216	08 16.8	8	SF	H 1.1	3	E		19		
0274	PALE	17 2347	2352	2356	S17	E05	6206	08 18.4	9	SF		3	E		20		H

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur	Imp	Obs	Time	Area Measurement		Remarks		
								USAF Region						Mo	Day		See	Type
0275	17	23589	24093	2423	N06	W14	6216	08	16.9	25	SF			24		F		
	LEAR	17	2358	2409	2427	N06	W15	6216	08	16.9	29	SF	4	E	23			
	PALE	18	0007	0012	0019	N05	W14	6216	08	16.9	12	SF	3	E	25		F	
0276	18	00074	00134	0026	S10	E17	6214	08	19.3	19	SF			64	1.3	DFH		
	VORO	18	0007	0013	0024U	S10	E16	6214	08	19.2	17U	SF	2	C	0013	116	1.3	DH
	LEAR	18	0011	0017	0026	S10	E16	6214	08	19.2	15	SF	4	E	35		H	
	PALE	18	0011	0017	0026	S10	E18	6214	08	19.4	15	SF	3	E	40		F	
0277	VORO	18	0141U	0143	0146U	S08	E15	6214	08	19.2	5U	SF	2	C	0143	108	1.2	DH
0278	PALE	18	0233	0234	0239	N21	E56	6225	08	22.4	6	SF	3	E		15		
0279	PALE	18	0315	0315	0320	N06	W15	6216	08	17.0	5	SF	3	E		18		F
0280	PALE	18	0342	0343	0357	S11	E16	6214	08	19.3	15	SF	3	E		25		F
0281	PALE	18	0413	0414	0418	N20	E54	6225	08	22.3	5	SF	3	E		17		
0282	TACH	18	0507		0515	N19	E62	6225	08	22.9	8	1B	3	C	0507	153		D
0283	YUNN	18	0645	0647	0652	N06	W20	6216	08	16.8	7	SN		C		157	1.7	
0284	YUNN	18	0645	0650	0732	S35	W04	6224	08	18.0	47	SN		C		47	0.7	G
0285	LEAR	18	0731	0732	0735	N14	W51	6197	08	14.4	4	SF	3	E		12		
0286	KHAR	18	0911	0913	0930	N14	W60	6197	08	13.8	19	SN	2	P	0916	100	2.0	
0287	KHAR	18	0928	0930	0940	S22	E82	6226	08	24.7	12	SN	2	V	0930			DH
0288	KHAR	18	0950		0955D	S16	E80	6226	08	24.5	5D	SF	2	V	0952			D
0289	HTPR	18	1010	1025	1040	N10	W50	6199	08	14.7	30	SN		C	1025	100	1.4	E
0290	18	13388	13454	1403	S17	W12	6206	08	17.6	25	SF			82	1.3	E		
	HTPR	18	1338	1345	1400	S17	W14	6206	08	17.5	22	SN		C	1345	120	1.3	E
	RAMY	18	1344	1349	1409	S17	W11	6206	08	17.7	25	SF	3	E	43			
	KANZ	18	1346	1346	1400	S18	W12	6206	08	17.6	14	SF		V				
0291	18	13451	13491	1411	S16	E09	6221	08	19.2	26	SF			58	1.1	F		
	HTPR	18	1345		1410	S17	E08	6221	08	19.2	25	SN		C	1355	100	1.1	
	RAMY	18	1345	1350	1411	S16	E10	6221	08	19.3	26	SF	3	E	16		F	
	KANZ	18	1346	1349	1412	S16	E09	6221	08	19.2	26	SF		V				
0292	18	15502	15552	1618	S18	W16	6206	08	17.4	28	SF			62	1.2	F		
	HTPR	18	1550	1556	1610	S17	W15	6206	08	17.5	20	SF		C	1556	110	1.2	
	RAMY	18	1552	1555	1621	S18	W16	6206	08	17.4	29	SF	3	E	35			
	HOLL	18	1552	1557	1624	S18	W16	6206	08	17.4	32	SF	3	E	42		F	
0293	18	16512	16521	1658	S10	E11	6214	08	19.5	7	SF			20				
	HOLL	18	1651	1652	1659	S09	E10	6214	08	19.4	8	SF	3	E	20			
	KANZ	18	1653	1653	1656	S11	E12	6214	08	19.6	3	SF		V				
0294	HOLL	18	1819	1820	1822	S19	E75	6226	08	24.5	3	SF	3	E		12		
0295	18	1834*	1841*	1854	S19	E75	6226	08	24.5	20	SF	C 4.2		40				
	HOLL	18	1834	1841	1845	S19	E75	6226	08	24.5	11	SF	3	E	26			
	HOLL	18	1850	1851	1904	S19	E75	6226	08	24.5	14	SF	C 4.2	3	E	54		
0296	HOLL	18	1834	1839	1846	S18	W17	6206	08	17.5	12	SF	3	E		14		
0297	HOLL	18	1900	1903	1911	S34	W09	6224	08	18.1	11	SF	3	E		19		
0298	HOLL	18	2012	2033	2056	S14	W75	6200	08	13.2	44	SF	3	E		62		
0299	HOLL	18	2048	2051	2056	S34	W11	6224	08	18.0	8	SF	3	E		20		
0300	HOLL	18	2110	2113	2123	S34	W11	6224	08	18.0	13	SF	3	E		19		

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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 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0301	HOLL	18	2110	2118	2205	S02 W33	6211	08	16.4	55	SF	4	E		29			
0302	HOLL	18	2127	2131	2138	S34 W11	6224	08	18.0	11	SF	3	E		10			
0303	HOLL	18	2139	2140	2148	S11 E66	6223	08	23.9	9	SF	4	E		25			
0304	HOLL	18	2148	2148	2157	S19 E73	6226	08	24.5	9	SF	3	E		12			
0305	HOLL	18	2148	2150	2156	N12 E41	6219	08	22.0	8	SF	4	E		13			
0306	HOLL	18	2208	2210	2220	S21 E71	6226	08	24.4	12	SF	4	E		13			
0307	HOLL	18	2222	2225	2239	S20 E75	6226	08	24.7	17	SF	4	E		37			
0308	HOLL	18	2234	2241	2311	S17 W36	6220	08	16.2	37	SF	4	E		89			F
0309	HOLL	18	2304	2307	2313	S11 E71	6223	08	24.3	9	SF	4	E		25			
0310	PALE	18	2307	2309	2312	S23 E87	6227	08	25.7	5	SF	3	E		44			
0311	HOLL	19	0005	0008	0019	S16 E03	6221	08	19.2	14	SF	4	E		13			
0312	HOLL	19	0009	0009	0013	N14 W70	6197	08	13.7	4	SF	4	E		26			
0313	HOLL	19	0013	0018	0025	S21 E74	6226	08	24.7	12	SF	4	E		16			
0314	HOLL	19	0017	0024	0035	N06 W29	6216	08	16.8	18	SF	4	E		21			
0315		19	00461	00472	0052	S21 E71	6226	08	24.5	6	SF				45			F
	PALE	19	0046	0047	0053	S22 E69	6226	08	24.3	7	SF	3	E		54			F
	HOLL	19	0046	0049	0052	S19 E70	6226	08	24.4	6	SF	3	E		56			
	LEAR	19	0047	0047	0051	S21 E73	6226	08	24.6	4	SF	3	E		25			
0316		19	0150	0152	0206	S23 E70	6226	08	24.5	16	SN C 5.5				78			EF
	LEAR	19	0149E	0151U	0202D	S24 E72	6226	08	24.6	13D	SF	2	E		63			
	PALE	19	0150	0152	0206	S22 E69	6226	08	24.4	16	SN C 5.5	3	E		94			FE
0317	PALE	19	0156	0158	0201	S13 E70	6223	08	24.4	5	SF	3	E		22			
0318		19	0302	0303	0308	N12 E43	6219	08	22.4	6	SB				114		1.6	D
	TACH	19	0302	0303	0307	N12 E42	6219	08	22.3	5	SB	3	C	0303	102		1.4	D
	YUNN	19	0306E	0306U	0308	N12 E44	6219	08	22.4	2D	SN	P		0306	126		1.8	
0319	YUNN	19	0315	0318	0326	S11 E65	6223	08	24.0	11	SN		C		16			
0320	YUNN	19	0344	0346	0346D	S09 E66	6223	08	24.1	2D	SN		P		16			
0321	YUNN	19	0407E	0408	0432	N23 E43	6225	08	22.5	25D	SN		P		47		0.7	E
0322	LEAR	19	0709	0709	0711	S19 E48	6222	08	23.0	2	SF	3	E		12			F
0323	ISTA	19	0720E	0750	0755	S19 E49	6222	08	23.0	35D	2B		V					BF
0324	ISTA	19	0740		0750	S09 E62	6223	08	24.0	10	1N		V					E
0325	ISTA	19	0749		0807	S19 W22	6206	08	17.6	18	1N		V					F
0326	KANZ	19	0814	0818	0825	S08 E64	6223	08	24.1	11	SF		V					
0327	KANZ	19	0829	0829	0840	N11 W73	6197	08	13.9	11	SF		V					
0328		19	1102	11062	1113	S22 E73	6226	08	25.1	11	SF C 2.9				29			H
	RAMY	19	1056E	1108	1112	S23 E73	6226	08	25.1	16D	SF C 2.9	2	E		29			H
	KANZ	19	1102	1106	1114	S22 E73	6226	08	25.1	12	SF		V					
0329	RAMY	19	1136	1136	1146	S12 E01	6214	08	19.5	10	SF	3	E		14			F

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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)	
0330		19	11362	11391	1146	S08 E58	6223	08 23.8	10	SF					52		
	KANZ	19	1136	1139	1147D	S09 E58	6223	08 23.8	11D	SF			V				
	SVTO	19	1136	1140	1147	S07 E59	6223	08 23.9	11	SF		3	E		64		
	RAMY	19	1138	1140	1146	S09 E58	6223	08 23.8	8	SF		3	E		39		
0331	SVTO	19	1148	1200	1240	S21 E74	6226	08 25.2	52	SF		3	E		46		
0332		19	12333	12361	1248	N06 W36	6216	08 16.8	15	SF					20		
	KANZ	19	1233	1237	1248	N06 W37	6216	08 16.7	15	SF			V				
	RAMY	19	1236	1236	1247	N06 W36	6216	08 16.8	11	SF		3	E		20		
0333	RAMY	19	1326	1326	1332	S09 W02	6214	08 19.4	6	SF		3	E		24		
0334		19	1339	1345*	1425	N06 W38	6216	08 16.7	46	SF					53		
	HOLL	19	1339	1345	1425	N06 W38	6216	08 16.7	46	SF			E		72	FK	
	HOLL	19	1339	1417	1425	N06 W38	6216	08 16.7	46	SF		3	E		34	F	
	KANZ	19	1415E		1415D	N06 W37	6216	08 16.8	46D	SF			V				
0335	HOLL	19	1344	1347	1350	S10 E66	6223	08 24.5	6	SF		2	E		19		
0336		19	14233	1426	1433	S08 E57	6223	08 23.9	10	SF					17		
	HOLL	19	1423	1426	1431	S08 E57	6223	08 23.9	8	SF		3	E		14	F	
	SVTO	19	1423	1426	1432	S08 E57	6223	08 23.9	9	SF		3	E		24		
	RAMY	19	1426	1426	1435	S09 E57	6223	08 23.9	9	SF		3	E		13	F	
0337	HOLL	19	1440	1444	1452	S10 W89	6200	08 12.9	12	SF		3	E		53	F	
0338	HOLL	19	1503	1505	1512	N21 E35	6225	08 22.3	9	SF		3	E		18	F	
0339	HOLL	19	1504	1513	1517	N05 W38	6216	08 16.8	13	SF		3	E		13	F	
0340	HOLL	19	1524	1527	1529	N15 E34	6219	08 22.2	5	SF		3	E		14	F	
0341	HOLL	19	1528	1530	1537	N05 W39	6216	08 16.7	9	SF		3	E		17	F	
0342	HOLL	19	1621	1621	1627	S11 W03	6214	08 19.4	6	SF		3	E		24	F	
0343	HOLL	19	1705	1705	1717	N20 E36	6225	08 22.5	12	SF		3	E		10	F	
0344	HOLL	19	1717	1719	1723	N05 W41	6216	08 16.6	6	SF		3	E		10	F	
0345	HOLL	19	1734	1735	1738	S12 W04	6214	08 19.4	4	SF		3	E		18	F	
0346	HOLL	19	1745	1750	1814	S16 E39	6222	08 22.7	29	SF		3	E		20		
0347	HOLL	19	1746	1748	1755	N05 W39	6216	08 16.8	9	SF		3	E		15	F	
0348	HOLL	19	1817	1817	1822	S11 W04	6214	08 19.5	5	SF		3	E		12	F	
0349		19	18311	18321	1837	S10 W04	6214	08 19.5	6	SF					16		
	RAMY	19	1831	1832	1836	S09 W04	6214	08 19.5	5	SF		3	E		16	F	
	HOLL	19	1832	1833	1838	S12 W05	6214	08 19.4	6	SF		3	E		16	F	
0350	HOLL	19	1904	1905	1918	S11 W03	6214	08 19.6	14	SF		3	E		18		
0351		19	19174	19215	1952	N10 E18	6215	08 21.1	35	SF					42		
	HOLL	19	1917	1926	2010	N10 E17	6215	08 21.1	53	SF		3	E		50	F	
	RAMY	19	1921	1921	1933	N09 E18	6215	08 21.1	12	SF		3	E		33	F	
0352	RAMY	19	1931	1934	1939	S11 W04	6214	08 19.5	8	SF		3	E		15		
0353	HOLL	19	2054	2056	2100	S20 E62	6226	08 24.6	6	SF		3	E		17		
0354	HOLL	19	2057	2100	2108	N14 E34	6219	08 22.4	11	SF		3	E		28		
0355	HOLL	19	2102	2111	2119	S11 W10	6214	08 19.1	17	SF		3	E		16		
0356	HOLL	19	2122	2122	2144	N04 W42	6216	08 16.7	22	SF		3	E		10		

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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)		
0357		19 2155	2203*	2221D	N21	E33	6225	08	22.4	26D	SN				60		EFK	
	HOLL	19 2155	2203	2221D	N21	E33	6225	08	22.4	26D	SN	3	E		96		FE	
	HOLL	19 2155	2214	2221D	N21	E33	6225	08	22.4	26D	SN		E		25		K	
		19 2222		2303	No Flare Patrol													
		19 2311		2321	No Flare Patrol													
		19 2339		2341	No Flare Patrol													
0358		20 0125*	0139*	0157	N20	E30	6225	08	22.3	32	SN				34	0.5	E	
	URUM	20 0125	0140	0155	N20	E29	6225	08	22.3	30	SN		C		16	0.2	E	
	YUNN	20 0126	0139	0200	N21	E31	6225	08	22.4	34	SN		C		63	0.8	E	
	LEAR	20 0136	0149	0157	N20	E30	6225	08	22.4	21	SF	3	E		16			
	PURP	20 0144	0146U	0151D	N20	E30	6225	08	22.4	7D	SF		C	0146	41	0.5	E	
0359	URUM	20 0455	0501	0511	N20	E28	6225	08	22.3	16	SF		C		64	0.8	D	
0360		20 05364	05402	0556	N06	W49	6216	08	16.6	20	SN				41	1.0		
	YUNN	20 0536	0542	0602	N06	W49	6216	08	16.6	26	SN		C		63	1.0		
	LEAR	20 0540	0540	0550	N05	W49	6216	08	16.6	10	SF	3	E		19			
0361		20 07395	0752	0754	N13	E28	6219	08	22.4	15	SN				32	0.4	D	
	ISTA	20 0739		0743	N13	E29	6219	08	22.5	4	SN		V				D	
	URUM	20 0744	0752	0804	N13	E27	6219	08	22.3	20	SN		C		32	0.4	D	
0362	KANZ	20 0957	0957	1004	S10	E45	6223	08	23.8	7	SF		V					
0363	KANZ	20 1042	1042	1046	S12	W16	6214	08	19.2	4	SF		V					
0364		20 10497	1053*	1155	S23	E56	6226	08	24.8	66	SF	C 7.5			32		F	
	KANZ	20 1049	1053	1151	S23	E46	6226	08	24.0	62	1F		V					
	KANZ	20 1056	1111	1155	S24	E60	6226	08	25.1	59	SF		V					
	RAMY	20 1106E	1108U	1200	S21	E57	6226	08	24.8	54D	SF	1	E		18		F	
	SVTO	20 1115E	1138U	1201D	S23	E59	6226	08	25.0	46D	SF	C 7.5	3	E	45			
0365	RAMY	20 1147E	1150U	1240	S04	E70	6228	08	25.7	53D	SF	2	E		14			
0366	KANZ	20 1206	1206	1210	S18	E31	6222	08	22.9	4	SF		V					
0367	RAMY	20 1219	1222	1235	S12	W13	6214	08	19.5	16	SF	2	E		21			
0368	KANZ	20 1252	1252	1258	S25	E73	6227	08	26.2	6	SF		V					
0369	KANZ	20 1313	1316	1320	N14	E24	6219	08	22.4	7	SF		V					
0370		20 1357	1402U	1428	S11	W14	6214	08	19.5	31	SF				38		F	
	RAMY	20 1357	1402U	1428	S10	W13	6214	08	19.6	31	SF	2	E		38		F	
	HOLL	20 1419E	1419U	1429	S12	W15	6214	08	19.5	100	SF	3	E		37			
0371	RAMY	20 1547	1548	1559	S10	W14	6214	08	19.6	12	SF	3	E		16		F	
0372	HOLL	20 1658	1702	1724	N04	W53	6216	08	16.7	26	SF	3	E		13		F	
0373	HOLL	20 1727	1732	1734	S18	E27	6222	08	22.8	7	SF	3	E		12			
0374	PALE	20 1730	1810	1817	S20	E53	6226	08	24.8	47	SF	3	E		36			
0375	PALE	20 1913	1913	1950D	S12	W18	6214	08	19.4	37D	SF	3	E		16		F	
		20 2030		2041	No Flare Patrol													
		20 2213		2215	No Flare Patrol													
0376		21 0050	0050*	0113	S18	E22		08	22.7	23	SF				109	1.8	EH	
	VORO	21 0046U	0050	0110D	S18	E22		08	22.7	24U	SF	2	C	0050	152	1.8	EH	
	LEAR	21 0050	0106	0113	S18	E22		08	22.7	23	SF	3	E		66			
0377	YUNN	21 0129E	0129U	0131	S13	E52	6223	08	25.0	2D	SN		P	0129	31	0.6		
0378	LEAR	21 0208	0210	0215	S19	W68	6220	08	15.9	7	SF	3	E		25			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
								USAF Region							Mo	Day	Time (UT)	
0379		21	0231	0310	0334	N11	E85	6231	08	27.5	63	SN				32		AG
	YUNN	21	0231	0310	0337	N11	E89	6231	08	27.8	66			C				AG
	URUM	21	0309E	0310	0332	N11	E81	6231	08	27.2	230	SN		C		32		A
0380	YUNN	21	0259	0300	0302	S28	E62	6230	08	26.0	3	SN		C		63		H
0381		21	0403*	0411*	0426	N02	W67	6208	08	16.2	23	1N				238		DEF
	TACH	21	0403	0411	0427	N01	W70	6208	08	15.9	24	2F	3	C	0411	326		E
	PALE	21	0407	0416	0444D	N04	W62	6208	08	16.5	37D	1F	3	E		178		F
	PEKG	21	0420	0421	0426	N01	W69	6208	08	16.0	6	1B		P	0424	210		D
0382		21	0407	0408*	0446	N05	W57	6216	08	16.9	39	SF				72		FK
	LEAR	21	0407	0408	0446	N05	W57	6216	08	16.9	39	SF		E		56		K
	LEAR	21	0407	0424	0446	N05	W57	6216	08	16.9	39	SF	3	E		87		F
0383		21	0430*	0431*	0544	S19	E46	6226	08	24.7	74	SF C 9.5				78	1.5	EF
	PALE	21	0430	0431	0444D	S23	E45	6226	08	24.6	14D	SF C 9.5	3	E		32		F
	LEAR	21	0455	0522	0557	S19	E48	6226	08	24.9	62	1F C 9.2	3	E		131		F
	YUNN	21	0507	0534U	0550	S17	E43	6226	08	24.5	43	SN		P	0534	126	2.0	
	TACH	21	0510	0515	0540	S20	E49	6226	08	25.0	30	1N	3	C	0515	199	2.2	E
	SVTO	21	0515	0526	0539	S16	E47	6226	08	24.8	24	SF	3	E		24		
	SVTO	21	0518	0527	0536	S19	E48	6226	08	24.9	18	SF	3	E		21		
	URUM	21	0525E	0527	0545	S19	E45	6226	08	24.6	20D	SN		C		16	0.3	E
	0384		21	0507*	0521*	0525	N14	E89	6231	08	27.9	18	SN				87	
YUNN		21	0507	0534	0558D	N13	E88	6231	08	27.8	51D			P				AG
ABST		21	0520	0521	0525	N14	E90	6231	08	28.0	5	SN		C	0521	87		AD
0385	ISTA	21	0809		0821	S34	W49	6224	08	17.4	12	1N		V				E
0386		21	0809	0810	0814	S16	W70	6220	08	16.0	5	SF				23		D
	LEAR	21	0809	0810	0814	S18	W69	6220	08	16.1	5	SF	3	E		23		
	KHAR	21	0810		0815	S15	W70	6220	08	16.0	5	SF	2	V				D
0387	KHAR	21	0830		0835	S26	E54	6227	08	25.5	5	SF	2	V	0830			E
0388	LEAR	21	0912	0913	0917	S17	W70	6220	08	16.1	5	SF	3	E		19		
0389		21	0927*	0931*	0940	S12	E48	6223	08	25.0	13	1N				158	2.9	HR
	HTPR	21	0927	0931	0940	S12	E48	6223	08	25.0	13	1B		C	0931	195	3.1	
	LEAR	21	0929	0931	0939	S12	E47	6223	08	24.9	10	1N	3	E		127		
	SVTO	21	0932	0932	0940D	S11	E49	6223	08	25.1	8D	1F	3	E		125		H
	ATHN	21	0932E	0933U	0936D	S12	E45	6223	08	24.8	4D	1B	3	V	0933	143	2.2	
	KHAR	21	0933E	0934U	0938D	S13	E50	6223	08	25.2	5D	1B	1	P	0936	200	3.3	R
0390	HTPR	21	1037		1045	N12	E90	6231	08	28.2	8	SF		C				A
0391		21	1052	1059	1115	S36	W42	6224	08	18.1	20	1N				118	2.7	
	HTPR	21	1055	1100	1115	S34	W45	6224	08	17.9	20	1N		C	1100	150	2.7	
	SVTO	21	1057	1059	1115	S38	W40	6224	08	18.2	18	SF	4	E		86		
0392		21	1137	1145	1220	S06	E69	6228	08	26.6	43	SF				14		
	HTPR	21	1137	1145	1200	S07	E68	6228	08	26.6	23	SF		C				
	RAMY	21	1147E	1150U	1240	S04	E70	6228	08	26.7	53D	SF	2	E		14		
0393		21	1143*	1149	1502	N12	E90	6231	08	28.3	199	SN						AT
	HTPR	21	1143	1149	1555	N12	E90	6231	08	28.3	252	SN		C				AT
	HTPR	21	1404		1410	N12	E90	6231	08	28.4	6	SN		C				AT
0394	HTPR	21	1405	1415	1500	S16	W33	6221	08	19.1	55	SF		C	1415	120	1.6	
0395	SVTO	21	1551	1608	1613	N02	W66	6208	08	16.7	22	SF	3	E		16		
0396		21	1558	1604	1610	S21	E47	6226	08	25.3	12	SN C 9.1				80	2.5	
	SVTO	21	1558	1605	1610	S21	E46	6226	08	25.2	12	SF C 9.1	3	E		50		
	HTPR	21	1602E	1604	1609D	S21	E47	6226	08	25.3	7D	1B		C	1604	160	2.5	
	HOLL	21	1604E	1604U	1605D	S21	E48	6226	08	25.3	1D	SN	1	E		30		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/			Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
						Lat	CMD	Region						Mo	Day	Time (UT)	
0397		21	1621*	1622*	1636	S21	E41	6226	08 24.8	15	SF				14		
	RAMY	21	1621	1622	1626	S21	E41	6226	08 24.8	5	SF	3	E		16		
	RAMY	21	1631	1635	1646	S21	E41	6226	08 24.8	15	SF	3	E		13		
0398	RAMY	21	1702	1709	1716	S20	E41	6226	08 24.8	14	SF	3	E		17		
0399	RAMY	21	1713	1715	1718	S26	E58	6227	08 26.2	5	SF	3	E		23		
0400		21	1723	1737	1751	S20	E41	6226	08 24.9	28	SF				24		EF
	RAMY	21	1723	1737	1746	S21	E42	6226	08 24.9	23	SF	3	E		20		FE
	HOLL	21	1734E	1739U	1756	S19	E40	6226	08 24.8	22D	SF	3	E		28		F
0401		21	1723*	1729*	1837	N06	W66	6216	08 16.8	74	SF				27		F
	PALE	21	1723	1742	1835	N05	W69	6216	08 16.6	72	SF	3	E		20		
	RAMY	21	1729	1729	1734	N06	W67	6216	08 16.7	5	SF	3	E		13		
	RAMY	21	1755	1804	1938	N07	W62	6216	08 17.1	103	SF	3	E		32		F
	PALE	21	1759	1813	1842	N06	W65	6216	08 16.9	43	SF	3	E		42		F
0402	PALE	21	1800	1811	1817	S10	E37	6223	08 24.5	17	SF	3	E		17		
0403		21	18163	18203	1836	N13	E04	6219	08 22.1	20	SF				41		F
	HOLL	21	1816	1823	1844	N13	E03	6219	08 22.0	28	SF	3	E		53		F
	PALE	21	1819	1820	1828	N13	E05	6219	08 22.1	9	SF	3	E		29		F
0404		21	1817	1853	1911D	S10	E36	6223	08 24.5	54D	1N				106		K
	HOLL	21	1817	1853	1911D	S10	E36	6223	08 24.5	54D	1N		E		75		
	HOLL	21	1817	1908U	1911D	S10	E36	6223	08 24.5	54D	1N	2	E		137		K
0405		21	18366	1850	1859	S18	W54	6206	08 17.7	23	SF				66		
	HOLL	21	1836	1843U	1912D	S18	W54	6206	08 17.7	36D	SF	3	E		96		
	PALE	21	1842	1850	1859	S17	W55	6206	08 17.6	17	SF	3	E		35		
0406	PALE	21	1843	1854	1900	N07	W61	6216	08 17.2	17	SF	3	E		25		
0407		21	1937*	1913*	1958	S17	E37	6226	08 24.6	21	1F M 1.1				106		FTU
	PALE	21	1913E	1913	2215D	S19	E34	6226	08 24.4	182D	SF M 1.1	3	E		67		T
	PALE	21	1937	1938	2126D	S15	E39	6226	08 24.8	109D	1F	3	E		110		FU
	RAMY	21	1938E	1950	1958	S15	E39	6226	08 24.8	20D	1F	3	E		140		
	RAMY	21	1938E	1951U	2108D	S21	E35	6226	08 24.5	90D	SF	3	E		61		
	RAMY	21	1959	2022U	2108D	S15	E39	6226	08 24.8	69D	1F	3	E		152		
0408		21	2014	20143	2031	N04	W64	6216	08 17.0	17	SF				18		F
	PALE	21	2014	2014	2021	N04	W65	6216	08 17.0	7	SF	3	E		12		
	RAMY	21	2017E	2017	2041	N05	W63	6216	08 17.1	24D	SF	3	E		25		F
0409	URUM	22	0140	0143	0151	S13	E38	6223	08 24.9	11	SN		C		32	0.5	D
0410		22	0200*	02139	0226	S23	E36	6226	08 24.8	26	SF				20		
	LEAR	22	0200	0213	0219	S23	E36	6226	08 24.8	19	SF	2	E		16		
	LEAR	22	0222	0222	0233	S23	E36	6226	08 24.9	11	SF	3	E		24		
0411	LEAR	22	0310	0311	0316	S21	E36	6226	08 24.9	6	SF	3	E		39		
0412	LEAR	22	0344	0345	0353	S11	E25	6223	08 24.0	9	SF	3	E		25		
0413		22	03541	03564	0405	N05	W73	6216	08 16.7	11	SN				53		D
	URUM	22	0354	0357	0410	N06	W73	6216	08 16.7	16	SN		C		32		D
	PEKG	22	0355	0356	0400	N04	W76	6216	08 16.5	5	SB		P	0355	84		D
	LEAR	22	0355	0400	0406	N06	W71	6216	08 16.8	11	SF	3	E		42		
0414		22	0401*	04115	0424	S12	E38	6223	08 25.0	23	SN C 5.7				102	1.5	EF
	LEAR	22	0401	0411	0430	S11	E38	6223	08 25.0	29	SF C 5.7	3	E		88		F
	URUM	22	0410	0413	0421	S13	E37	6223	08 25.0	11	SB		C		113	1.6	E
	PEKG	22	0415	0416	0421	S11	E38	6223	08 25.0	6	SN		P	0416	105	1.4	E
0415	LEAR	22	0454	0459	0508	N11	W16	6215	08 21.0	14	SF	3	E		38		
0416		22	0456	0458	0508	S12	E37	6223	08 25.0	12	SF C 5.3				68		
	SVTO	22	0456	0458	0508	S11	E36	6223	08 24.9	12	SF C 5.3	1	E		46		
	LEAR	22	0456	0458	0509	S12	E38	6223	08 25.1	13	SF C 5.3	3	E		89		

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Grp #	Sta	Start Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
															Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0417	PEKG	22	0535	0537	0540	S21	E34	6226	08	24.8	5	1N		P	0537	168	2.4	F	
0418		22	06232	06243	0631	N04	W76	6216	08	16.6	8	SN				58	2.0	D	
	PEKG	22	0623	0624	0628	N04	W77	6216	08	16.5	5	SB		P	0625	84	2.0	D	
	LEAR	22	0625	0627	0634	N05	W74	6216	08	16.7	9	SF	3	E		32			
0419	YUNN	22	0651	0706	0722	S16	W88	6220	08	15.6	31			P				A	
0420		22	07505	07553	0802	S22	E32	6226	08	24.8	12	1N	C 6.1			144	3.6	DE	
	PEKG	22	0750	0755	0800	S21	E32	6226	08	24.8	10	1N		P	0755	252	3.6	D	
	ISTA	22	0754	0758	0804	S22	E30	6226	08	24.6	10	1B		V				E	
	LEAR	22	0755	0757	0803	S22	E33	6226	08	24.9	8	SF	C 6.1	3	E		36		
0421		22	08561	0900	0905	N12	E73	6231	08	27.9	9	SN	C 2.9			10		D	
	HTPR	22	0856	0900	0908	N12	E72	6231	08	27.8	12	SN		C				D	
	ISTA	22	0857		0905	N11	E74	6231	08	27.9	8	1N		V				D	
	LEAR	22	0857	0900	0903	N13	E73	6231	08	27.9	6	SF	C 2.9	3	E		10		
0422		22	09032	09052	0913	S22	E30	6226	08	24.7	10	SF	C 3.4			56	1.3		
	HTPR	22	0903	0905	0913	S23	E30	6226	08	24.7	10	SF		C	0905	90	1.3		
	LEAR	22	0905	0907	0913	S22	E31	6226	08	24.8	8	SF	C 3.4	3	E		22		
0423	HTPR	22	0939	0941	0950	N13	W75	6203	08	16.7	11	SN		C					
0424	HTPR	22	0958	1000	1015	N12	E70	6231	08	27.7	17	SN		C				DT	
0425	RAMY	22	1356	1411	1425	S21	E29	6226	08	24.8	29	SF		3	E		27		
0426	RAMY	22	1450	1451	1458	S18	E27	6226	08	24.7	8	SF		3	E		16		
0427	RAMY	22	1513	1515	1517	N05	W82	6216	08	16.5	4	SF		3	E		32		
0428	HTPR	22	1532	1537	1545	S33	W28	6212	08	20.4	13	1F		C	1537	280	4.2		
0429	HTPR	22	1537	1540	1555	N10	W72	6216	08	17.2	18	SN		C					
0430		22	16173	16202	1637	S10	E30	6223	08	24.9	20	1N	C 6.0			192	4.3	F	
	HTPR	22	1617	1620	1645	S11	E31	6223	08	25.0	28	1N		C	1620	350	4.3		
	RAMY	22	1620	1622	1629	S10	E29	6223	08	24.8	9	SF	C 6.0	3	E		33		F
0431	HTPR	22	1650	1656	1712	S20	E30	6226	08	25.0	22	1B		C	1656	180	2.3		
		22	1713		1733	No Flare Patrol													
0432	PALE	22	1735	1735	1749	S11	E25	6223	08	24.6	14	SF		3	E		16		
0433	PALE	22	1811	1817	1820	S21	E28	6226	08	24.9	9	SF		3	E		11		F
0434	PALE	22	1903	1906	1927	S21	E27	6226	08	24.9	24	SF		3	E		34		F
0435	PALE	22	2102	2104	2109	S18	E31	6226	08	25.2	7	SF		3	E		17		F
0436		22	21541	22124	2240	S22	E28	6226	08	25.1	46	SF	C 5.3			34		F	
	HOLL	22	2154	2212	2232	S23	E27	6226	08	25.0	38	SF	C 5.3	3	E		27		F
	PALE	22	2155	2216	2248	S21	E28	6226	08	25.0	53	SF		3	E		42		F
0437	HOLL	22	2202	2204	2234	S28	E48	6230	08	26.7	32	SF		3	E		71		F
0438	PALE	22	2212	2248	2301	S10	E21	6223	08	24.5	49	SF		3	E		21		
0439		23	01252	01281	0136	N05	W86	6216	08	16.6	11	SF	C 8.8			23			
	YUNN	23	0125	0128	0139	N04	W90	6216	08	16.3	14	SN		C		16			
	LEAR	23	0126	0129	0136	N05	W86	6216	08	16.6	10	SF	C 8.8	3	E		27		
	PALE	23	0127	0128	0132	N05	W81	6216	08	17.0	5	SF		3	E		25		
0440	YUNN	23	0146	0157	0217	N02	W90	6216	08	16.3	31			C				A	



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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)		
0441		23 02503	02534	0303	S08	E11	6223	08 23.9	13	SN			44	0.8	D	
	PEKG	23 0250	0254	0300	S09	E11	6223	08 23.9	10	SN	P	0254	84	0.9	D	
	YUNN	23 0250	0257	0311	S07	E10	6223	08 23.9	21	SN	C		63	0.7		
	PALE	23 0253	0253	0300	S08	E12	6223	08 24.0	7	SF			15			
	LEAR	23 0253	0253	0300	S08	E11	6223	08 23.9	7	SF	3		15			
0442	TACH	23 0350	0352	0413	S14	E11	6223	08 24.0	23	SF	3	C	0352	26	0.3	DE
0443		23 0458*	0500*	0520	S26	E47	6230	08 26.8	22	SN			72	1.4	D	
	PEKG	23 0458	0500	0543	S27	E49	6230	08 27.0	45	SN	P	0500	84	1.6	D	
	LEAR	23 0501	0503	0511	S27	E47	6230	08 26.9	10	SF	3	E	77			
	YUNN	23 0502E	0503U	0509	S26	E45	6230	08 26.7	7D	1N	P	0503	157	2.8		
	YUNN	23 0502	0533	0533D	S25	E44	6230	08 26.6	31D	SN	P		31	0.5		
	TACH	23 0503	0503	0515	S27	E49	6230	08 27.0	12	SF	3	C	0503	36	0.7	D
	LEAR	23 0531	0532U	0543D	S26	E47	6230	08 26.9	12D	SF	2	E	46			
0444	HTPR	23 0630E		0650	S18	W90		08 16.4	20D			C				
0445	HTPR	23 0637		0645	N07	W90	6216	08 16.5	8	SF		C				
0446	HTPR	23 0703		0720	N05	W90	6216	08 16.6	17	SF						AT
0447	HTPR	23 0718	0720	0725	S35	W40	6212A	08 20.1	7	SF		C	0720	100	1.8	
0448		23 0728*	0745*	0819	S12	E14	6223	08 24.4	51	1N C 3.9			97	1.0	DLOZ	
	YUNN	23 0728	0748	0756D	S12	E15	6223	08 24.4	28D	SN	P		79	0.9		
	HTPR	23 0732	0745	0820	S12	E14	6223	08 24.4	48	SN	C	0745	170	1.9	Z	
	LEAR	23 0741E	0741U	0845D	S13	E16	6223	08 24.5	64D	1N C 3.9	2	E	118			
	KHAR	23 0743		0756	S12	E10	6223	08 24.1	13	SF	2	P	0748	20	0.2	DLZO
	ISTA	23 0749	0800	0816	S12	E12	6223	08 24.2	27	1B		V			Z	
	KANZ	23 0807E		0845	S12	E15	6223	08 24.5	38D	1F		V				
0449	KHAR	23 0805	0805U	0809	S28	E47	6230	08 27.0	4	SF	2	V	0805			
0450	KHAR	23 0816		0823	S14	W59	6221	08 18.9	7	SF	2	V	0816			D
0451	KHAR	23 0827		0838	N06	W90	6216	08 16.6	11	SF	2	V	0827			
0452		23 0855*	0903*	1002	S12	E12	6223	08 24.3	67	SN			100	1.1	DZ	
	HTPR	23 0855	0907	0953D	S12	E14	6223	08 24.4	58D	SB	C	0907	180	2.0	Z	
	KANZ	23 0859	0903	0939	S11	E09	6223	08 24.0	40	SN		V				
	KANZ	23 0903	0914	1018	S12	E16	6223	08 24.6	75	1F		V				
	KHAR	23 0910E		0950	S12	E10	6223	08 24.1	40D	SF	2	P	0912	20	0.2	DZ
	HURB	23 0925E	0925	0940D	S13	E15	6223	08 24.5	15D	1N		V			D	
	KANZ	23 1014	1014	1022	S15	E09	6223	08 24.1	8	SF		V				
0453	KANZ	23 1045	1049	1049	S12	E07	6223	08 24.0	4	SF		V				
0454	KANZ	23 1123	1130	1138	S18	E21	6226	08 25.1	15	SF		V				
0455	KANZ	23 1134	1134	1138	S13	E10	6223	08 24.2	4	SF		V				
0456	KANZ	23 1222	1222	1226	S22	E17	6226	08 24.8	4	SF		V				
0457	HOLL	23 1328E	1328U	1402D	S10	E14	6223	08 24.6	34D	SF	2	E		20		
0458	RAMY	23 1521	1538	1546	S16	E13	6223	08 24.6	25	SF	2	E		55		F
		23 1631		1641	No Flare Patrol											
0459	PALE	23 1802	1804	1813	S27	E35	6230	08 26.5	11	SF	3	E		17		F
0460	PALE	23 1820	1820	1837	S12	E10	6223	08 24.5	17	SF	3	E		12		F
0461	PALE	23 1951	2011	2042	S15	E11	6223	08 24.6	51	SF	3	E		24		
0462		23 2037	2039	2053	N15	E82	6233	08 30.1	16	SN C 7.4			86			
	PALE	23 2037	2039	2055	N15	E83	6233	08 30.1	18	SF C 7.4	3	E	78			
	HOLL	23 2039E	2039U	2051	N15	E82	6233	08 30.1	12D	SN C 7.4	2	E	95			

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CND	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement			Remarks	
														Time (UT)	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0463	HOLL	23	2039E	2043	2105	S10	E09	6223	08 24.5	260	SF	2	E		16			
0464	HOLL	23	2153	2157	2210	N15	E82	6233	08 30.1	17	SF	3	E		31			
0465	HOLL	23	2154	2155	2200	S26	W87		08 17.1	6	SF	3	E		23			
0466	HOLL	23	2203	2203	2215	S24	E13	6226	08 24.9	12	SF C	7.9	3	E	18		F	
0467	23	2244I	2253I	2332	S12	E07	6223	08 24.5	48	SF				39		DFI		
	PALE	23	2244	2253	2320D	S11	E08	6223	08 24.5	36D	SF	3	E	39		F		
	HOLL	23	2245	2254	2332	S12	E07	6223	08 24.5	47	SN	3	E	39		F		
	VORO	23	2305E		2325D	S12	E07	6223	08 24.5	20D	SF	2	C			DI		
0468	VORO	23	2341E		2401	S16	E01	6223	08 24.1	20D	SF	2	C	2342	90	1.0	DIJ	
0469	24	0009I	0010I	0019	N14	E81	6233	08 30.1	10	SF				37		D		
	LEAR	24	0009	0010	0014	N13	E82	6233	08 30.2	5	SF	3	E		33			
	VORO	24	0009	0012	0025	N15	E80	6233	08 30.1	16	SF	2	C	0012	45		D	
	HOLL	24	0010	0011	0019	N15	E80	6233	08 30.1	9	SF	3	E		34			
0470	LEAR	24	0112	0113	0118	S07	E36	6228	08 26.7	6	SF	3	E		12			
0471	VORO	24	0120	0121	0129	S20	E10	6226	08 24.8	9	SF	2	C	0121	108	1.2	EIJ	
0472	24	0128I	0130I	0140	N14	E82	6233	08 30.2	12	1F				63		D		
	VORO	24	0128	0130	0135D	N15	E80	6233	08 30.1	7D	1F	2	C	0130	81		D	
	LEAR	24	0129	0132	0140	N13	E84	6233	08 30.4	11	SF	3	E		45			
0473	24	0134I	0140I	0158	S22	E10	6226	08 24.8	24	SN				25		0.2	D	
	LEAR	24	0134	0140	0158	S22	E10	6226	08 24.8	24	SF	3	E		34			
	URUM	24	0137	0145	0200D	S22	E09	6226	08 24.7	23D	SN		C		16		0.2	D
0474	24	0309I	0315*	0344	S31	E32	6230	08 26.6	35	SN C	5.2			124		2.2	DE	
	LEAR	24	0309	0326	0353D	S31	E31	6230	08 26.6	44D	SF C	5.2	3	E	89			
	TACH	24	0311	0315	0353	S29	E35	6230	08 26.9	42	1B	3	C	0315	235	3.6	E	
	URUM	24	0311	0319	0335	S32	E30	6230	08 26.5	24	SN		C		48		0.7	D
0475	LEAR	24	0324	0326	0333	N13	E83	6233	08 30.4	9	SF	3	E		36			
0476	24	0428*	0430*	0453	S30	E31	6230	08 26.6	25	SF				51		0.8	DEFKV	
	PALE	24	0428	0430	0443D	S30	E31	6230	08 26.6	15D	SF	3	E		43		F	
	URUM	24	0430	0432	0435	S28	E34	6230	08 26.8	5	SF		C		32		0.5	D
	TACH	24	0431	0440	0508	S29	E35	6230	08 26.9	37	SF	3	C	0440	76		1.2	EKV
	URUM	24	0432	0444	0500	S31	E29	6230	08 26.5	28	SF		C		64		1.0	D
	PURP	24	0439	0441	0448	S30	E28	6230	08 26.4	9	SN		C	0441	41		0.6	D
0477	24	0431I	0437I	0456	S09	W63	6214	08 19.4	25	SN C	6.6			109		1.9	EF	
	TACH	24	0431	0440	0515	S12	W62	6214	08 19.5	44	SF	3	C	0440	82		2.0	F
	PEKG	24	0434	0437	0450	S10	W65	6214	08 19.3	16	1N		P	0437	210			E
	PALE	24	0436	0439	0443D	S11	W60	6214	08 19.7	7D	SF	3	E		75			F
	LEAR	24	0437	0439	0451	S09	W63	6214	08 19.5	14	SF C	6.6	3	E	72			F
	PURP	24	0439E	0441	0448	S09	W65	6214	08 19.3	9D	SN		C	0441	83		2.0	
	URUM	24	0440E	0440U	0451	S07	W60	6214	08 19.7	11D	SF		C		80		1.8	E
	MITK	24	0440E	0441	0503	S09	W64	6214	08 19.4	23D	1B		C	0441	160			E
0478	MITK	24	0624	0626	0634	S27	E26	6230	08 26.3	10	SF		C	0626				
0479	24	0703	0700I	0708	S15	W04	6223	08 24.0	5	SF				32		0.4	DE	
	MITK	24	0700E		0709	S15	W04	6223	08 24.0	9D	SF		P	0700			E	
	URUM	24	0700E	0700	0705D	S16	W03	6223	08 24.1	5D	SF		C		32		0.4	D
	KANZ	24	0703	0703	0707	S14	W04	6223	08 24.0	4	SF		V					
0480	24	0715I	0718I	0737	S14	W70	6214	08 19.0	22	SN				30			DF	
	BUCA	24	0715	0719	0740	S12	W73	6214	08 18.8	25	SN		C	0719	43			D
	HTRP	24	0715	0720	0739D	S13	W70	6214	08 19.0	24D	SF		C					
	SVTO	24	0716	0719	0736	S16	W67	6214	08 19.2	20	SB	3	E		16			F
	KANZ	24	0718	0718	0735	S13	W70	6214	08 19.0	17	SF		V					
0481	KANZ	24	0718	0718	0732	S26	E05	6226	08 24.7	14	SF		V					

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												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0482		24 0814*	08341	0902	S23	E24	6227	08 26.2	48	SF			85	1.7	D
	SVTO	24 0814	0834	0918	S22	E23	6227	08 26.1	64	SF	3 E		44		
	PEKG	24 0829	0835	0845	S24	E24	6227	08 26.2	16	SF	P	0835	126	1.7	D
0483	KANZ	24 0821	0821	0829	N06	W50	6215	08 20.6	8	SF	V				
0484		24 0830*	0858*	1042	S12	E03	6223	08 24.6	132	1N M 1.6			134	1.8	DFTYZ
	SVTO	24 0830	0920	1220	S11	E03	6223	08 24.6	230	1N M 1.6	3 E		120		YFT
	LEAR	24 0835	0911	1001D	S12	E01	6223	08 24.4	86D	1F	3 E		114		ZF
	PEKG	24 0850	0858	0905	S12	E05	6223	08 24.7	15	SN	P	0858	168	1.8	D
0485		24 1145	1037*	1155	S12	W00	6223	08 24.5	10	SF			150	1.2	EFY
	RAMY	24 1032E	1150	1218	S10	E00	6223	08 24.4	106D	1F	3 E		187		YF
	URUM	24 1037E	1037	1127	S12	E04	6223	08 24.7	50D	SN	C		113	1.2	E
	KANZ	24 1145	1149	1200	S14	W05	6223	08 24.1	15	SF	V				
0486		24 11561	1200	1204	S12	W74	6214	08 18.9	8	SN					A
	KANZ	24 1156	1200	1204	S11	W72	6214	08 19.1	8	SF	V				
	HTPR	24 1157		1204	S12	W75	6214	08 18.8	7	SN	C				A
0487	SVTO	24 1209	1210	1214	N16	E78	6233	08 30.4	5	SF	3 E		16		
0488	HOLL	24 1415	1425	1510	S14	E00	6223	08 24.6	55	SF C 4.4	3 E		16		
0489	SVTO	24 1435	1435	1447	S19	W74	6221	08 19.0	12	SF	3 E		25		
0490	HOLL	24 1441E	1441U	1447	S12	W68	6214	08 19.5	60	SF	3 E		19		
0491		24 1731	17389	1754	N12	E65	6233	08 29.6	23	SF			18		F
	RAMY	24 1727E	1747	1759	N11	E65	6233	08 29.6	32D	SF	2 E		17		
	HOLL	24 1731	1738	1748	N12	E65	6233	08 29.6	17	SF	4 E		18		F
		24 1813		1816	No Flare Patrol										
		24 1835		1914	No Flare Patrol										
0492	HOLL	24 1919	1921	1934	S27	E20	6230	08 26.4	15	SF	3 E		19		
0493	HOLL	24 1946	1950	2000	S27	E21	6230	08 26.4	14	SF	3 E		20		
0494		24 21481	21481	2200	N14	E62	6233	08 29.6	12	SF			18		
	HOLL	24 2148	2148	2157	N13	E62	6233	08 29.6	9	SF	3 E		17		
	PALE	24 2149	2149	2203	N14	E63	6233	08 29.7	14	SF	3 E		19		
0495		24 22058	2217*	2233	N16	E64	6233	08 29.8	28	SF			22		
	PALE	24 2205	2230	2243	N16	E62	6233	08 29.6	38	SF	3 E		27		
	HOLL	24 2213	2217	2223	N15	E67	6233	08 30.0	10	SF	3 E		17		
0496		24 2321*	2328*	2401	S27	E18	6230	08 26.4	40	1N M 1.5			143	2.8	DEFH
	HOLL	24 2255E	2402U	2415	S27	E17	6230	08 26.3	80D	1N	1 E		136		EH
	PEKG	24 2321	2328	2338	S28	E17	6230	08 26.3	17	1N	C	2328	168	2.2	D
	PALE	24 2325	2330	2338	S27	E20	6230	08 26.5	13	SF	3 E		30		
	PEKG	24 2342	2348	2410	S28	E17	6230	08 26.3	28	1B	C	2348	252	3.4	D
	PALE	24 2351E	2401U	2414	S27	E19	6230	08 26.5	23D	SF M 1.5	3 E		96		FE
	LEAR	25 0006E	0007U	0012	S27	E20	6230	08 26.6	6D	1F	1 E		174		
0497	PALE	25 0100E	0117U	0127D	N14	E62	6233	08 29.7	27D	SF	3 E		52		F
0498	LEAR	25 0242	0247	0251	N12	E68	6233	08 30.2	9	SF C 4.6	3 E		37		F
0499		25 0318	03201	0326	S16	W10	6223	08 24.4	8	SF			28		F
	PALE	25 0318	0320	0326	S16	W10	6223	08 24.4	8	SF	3 E		22		
	LEAR	25 0318	0321	0327	S15	W11	6223	08 24.3	9	SF	3 E		35		F
0500	LEAR	25 0457	0457	0514	S10	W09	6223	08 24.5	17	SF	3 E		18		F
0501	KANZ	25 0656	0656	0708	N09	E57	6233	08 29.6	12	SF	V				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Lat	Cmd	Region							Mo	Day	
0502		25	07093	0710*	0734	S12	W24	6235	08	23.5	25	SF			48	0.9	BE
	BUCA	25	0705E	0710	0746	S12	W24	6235	08	23.5	41D	SF	C	0710	64	0.9	E
	SVTO	25	0709	0725	0735	S13	W23	6235	08	23.6	26	SF	3	E	32		
	KANZ	25	0712	0712	0728	S12	W25	6235	08	23.4	16	SF	V				
	ISTA	25	0719E		0726	S12	W26	6235	08	23.3	7D	SF	V				B
0503		25	10202	1025	1050	S14	W12	6223	08	24.5	30	SF			17		
	SVTO	25	1020	1025	1055	S14	W12	6223	08	24.5	35	SF	3	E	17		
	KANZ	25	1022	1025	1045	S13	W13	6223	08	24.4	23	SF	V				
0504	RAMY	25	1220	1227	1254	S12	W16	6223	08	24.3	34	SF	3	E	18		
0505	KANZ	25	1516	1520	1544	S32	E13	6230	08	26.7	28	SF	V				
0506		25	15531	1555	1602	S23	W09	6226	08	25.0	9	SF C 3.1			17		
	HOLL	25	1553	1555	1605	S23	W10	6226	08	24.9	12	SF C 3.1	4	E	20		
	SVTO	25	1554	1555	1559	S23	W08	6226	08	25.0	5	SF	3	E	14		
0507	HOLL	25	1556	1556	1606	N16	W64	6236B	08	20.8	10	SF	4	E	10		
0508	HOLL	25	1617	1619	1622	S12	W78	6214	08	19.8	5	SF	4	E	29		
0509	RAMY	25	1707	1714	1719	N12	E56	6233	08	29.9	12	SF C 2.7	3	E	27		F
0510		25	1727*	1747*	1831	S20	W11	6226	08	24.9	64	SF C 3.2			40		F
	RAMY	25	1727	1747	1757	S22	W11	6226	08	24.9	30	SF	3	E	51		F
	HOLL	25	1727	1835	1844	S23	W12	6226	08	24.8	77	SF	3	E	56		F
	PALE	25	1831	1836	1842	S18	W10	6226	08	25.0	11	SF C 3.2	3	E	37		F
	RAMY	25	1833	1834	1840	S19	W11	6226	08	24.9	7	SF	3	E	18		F
0511		25	18501	18511	1855	N12	W16	6232	08	24.6	5	SF			40		U
	HOLL	25	1850	1852	1856	N12	W16	6232	08	24.6	6	SF	3	E	45		U
	RAMY	25	1851	1851	1854	N12	W16	6232	08	24.6	3	SF	3	E	34		U
0512	HOLL	25	1908	1908	1913	N13	E60	6233	08	30.3	5	SF	3	E	16		
0513		25	19553	2009*	2056	S24	E03	6227	08	26.1	61	SN C 6.0			101		EFU
	RAMY	25	1955	2022	2046	S24	E02	6227	08	26.0	51	SN	3	E	95		UF
	HOLL	25	1958	2009	2113	S23	E02	6227	08	26.0	75	1N C 6.0	4	E	151		FE
	PALE	25	2008E	2009U	2050	S24	E04	6227	08	26.1	42D	SF	3	E	57		F
0514		25	20171	20171	2024	S10	W24	6223	08	24.0	7	SF			21		H
	HOLL	25	2017	2017	2025	S09	W25	6223	08	24.0	8	SF	4	E	24		
	RAMY	25	2018	2018	2024	S10	W24	6223	08	24.0	6	SF	3	E	18		H
0515	HOLL	25	2108	2123	2137	S11	W12	6223	08	25.0	29	SF	3	E	14		
0516		25	2148*	22072	2302	S06	E10	6228	08	26.6	74	1F C 4.0			86		K
	RAMY	25	2110E	2110U	2155D	S07	E09	6228	08	26.5	45D	SF	2	E	15		
	HOLL	25	2148	2209	2302	S06	E09	6228	08	26.6	74	1F C 4.0	3	E	121		
	PALE	25	2202	2207	2245D	S06	E10	6228	08	26.7	43D	SF C 4.0	E		51		K
	PALE	25	2202	2214U	2245D	S06	E10	6228	08	26.7	43D	1F	3	E	155		
0517	HOLL	25	2120	2124	2134	S18	W11	6226	08	25.0	14	SF	3	E	12		
0518	HOLL	25	2315	2315	2326	N13	E58	6233	08	30.3	11	SF	3	E	23		F
0519	HOLL	26	0042E	0042U	0053	N13	E43	6233	08	29.3	11D	SF	2	E	16		
0520	HOLL	26	0050	0051	0102	N15	W16	6229	08	24.8	12	SF C 3.1	2	E	12		
0521		26	00533	00562	0105	S18	W17	6226	08	24.7	12	SF			43	0.6	EF
	YUNN	26	0053	0058	0111	S18	W19	6226	08	24.6	18	SN	P		47	0.6	E
	HOLL	26	0055	0057U	0105	S17	W17	6226	08	24.7	10	SF	2	E	64		F
	LEAR	26	0056	0056	0100	S18	W16	6226	08	24.8	4	SF	3	E	19		F
0522		26	0127E	0136	0153	S09	W28	6223	08	23.9	26D	SN			56	0.2	E
	YUNN	26	0127E	0130U	0157	S10	W28	6223	08	23.9	30D	SN	P	0130	31	0.4	E
	URUM	26	0135E	0136	0149	S08	W29	6223	08	23.9	14D	SF	C		80	1.0	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)	
0523	URUM	26	0156	0159	0206	S18	W16	6226	08	24.9	10	SF			C		32	0.4	D
0524		26	02066	0213*	0254	S12	W31	6235	08	23.7	48	1N	C 5.5				148	2.4	EF
	YUNN	26	0206	0214	0255	S12	W31	6235	08	23.7	49	SN			P		157	2.0	
	URUM	26	0210	0226	0250	S13	W31	6235	08	23.7	40	1B			C		225	2.9	E
	MITK	26	0211	0213	0305D	S11	W30	6235	08	23.8	54D	1B			C	0213	190	2.4	E
	PALE	26	0212	0226	0253	S12	W32	6235	08	23.7	41	SF	C 5.5	3	E		60		
	LEAR	26	0212	0227	0256	S11	W32	6235	08	23.7	44	1F	C 5.5	3	E		107		F
0525		26	03142	03342	0400	S11	W84	6214	08	19.8	46	1F					177		A
	URUM	26	0314	0336	0400	S10	W80	6214	08	20.1	46	1F			C		177		A
	YUNN	26	0316	0334	0350D	S12	W89	6214	08	19.4	34D				P				A
0526		26	03504	0354*	0437	S18	W16	6226	08	24.9	47	1N	C 5.9				180	2.6	EFUV
	URUM	26	0350	0405	0440	S18	W16	6226	08	24.9	50	1N			C		193	2.3	E
	YUNN	26	0350	0407	0442	S18	W17	6226	08	24.9	52	1B			P		236	2.8	F
	LEAR	26	0353	0354	0423	S19	W16	6226	08	24.9	30	SF	C 5.9	3	E		50		F
	MITK	26	0353	0354	0455	S18	W17	6226	08	24.9	62	1B			C	0354	320	3.8	E
	PURP	26	0353E	0403	0420D	S20	W18	6226	08	24.8	27D	SN			C	0403	124	1.5	U
	TACH	26	0354	0403	0425	S18	W15	6226	08	25.0	31	1B			C	0403	250	2.6	V
	PALE	26	0354	0405	0424D	S18	W15	6226	08	25.0	30D	SF			E		85		F
0527	YUNN	26	0558	0610	0634	S24	E14	6230	08	27.3	36	SN			P		47	0.6	
0528		26	07151	07162	0728	N11	W60	6219	08	21.8	13	SF					65	1.3	D
	BUCA	26	0715E	0717	0737	N13	W58	6219	08	21.9	22D	SN			C	0717	43	0.8	D
	ABST	26	0715	0718	0721	N10	W64	6219	08	21.5	6	SF			C	0718	87	1.8	D
	KANZ	26	0716	0716	0727	N10	W57	6219	08	22.0	11	SF			V				
0529		26	0728*	0729*	0801	N13	E40	6233	08	29.3	33	SN	C 6.7				66	0.9	DEW
	SVTO	26	0728	0737	0753	N16	E40	6233	08	29.3	25	SN	C 6.7	3	E		56		
	YUNN	26	0729E	0729	0755	N13	E41	6233	08	29.4	26D	SN			P		94	1.3	
	ISTA	26	0733		0800	N11	E42	6233	08	29.5	27	2B			V				W
	KANZ	26	0734	0738	0748	N13	E39	6233	08	29.2	14	SF			V				
	PURP	26	0734E	0739	0752	N13	E41	6233	08	29.4	18D	SN			C	0739	21	0.3	E
	ABST	26	0736	0739	0746	N14	E41	6233	08	29.4	10	SN			C	0739	87	1.2	D
	BUCA	26	0737	0740	0853	N15	E42	6233	08	29.5	76	SF			C	0740	107	1.5	
	YUNN	26	0821	0827	0838D	N12	E38	6233	08	29.2	17D	SN			P		31	0.4	
0530	ISTA	26	0733		0800	N13	E54	6240	08	30.4	27	SB			V				E
0531	BUCA	26	0740E	0740	0758	S09	W32	6223	08	23.9	18D	SN			C	0740	43	0.5	D
0532		26	0841*	0849*	0919	S13	W30	6223	08	24.1	38	SN					140	4.1	DEFH
	ISTA	26	0841		0851	S12	W32	6223	08	23.9	10	SB			V				D
	ISTA	26	0841		0851	S14	W26	6223	08	24.4	10	SB			V				D
	KANZ	26	0842	0849	0916	S09	W31	6223	08	24.0	34	SF			V				
	SVTO	26	0845	0909	0920	S15	W33	6223	08	23.9	35	SF			E		64		FH
	BUCA	26	0850	0856	1000	S16	W27	6223	08	24.3	70	1N			C	0856	332	4.1	E
	LEAR	26	0855	0922	0934	S10	W31	6223	08	24.0	39	SF			E		24		
0533		26	08446	0902*	0944	S18	W23	6226	08	24.6	60	1F	C 5.9				136		DF
	SVTO	26	0844	0907	0956D	S18	W23	6226	08	24.6	72D	1N	C 5.9	3	E		190		F
	KANZ	26	0849	0912	0955	S17	W25	6226	08	24.5	66	1F			V				
	LEAR	26	0850	0902	0934	S17	W24	6226	08	24.5	44	SF			E		82		
	KHAR	26	0920E		0930D	S21	W19	6226	08	24.9	10D	SF			V	0921			D
0534	SVTO	26	1027	1027	1043	N15	E37	6233	08	29.2	16	SF			E		15		
0535	SVTO	26	1039	1041	1106	S22	W05	6227	08	26.0	27	SF			E		14		
0536		26	1120	1154	1233	N14	E38	6233	08	29.3	73	SF	C 2.8				39		F
	SVTO	26	1120	1154	1230	N15	E37	6233	08	29.3	70	SF	C 2.8	3	E		39		
	RAMY	26	1129E	1156U	1236	N13	E39	6233	08	29.4	67D	SF			E		39		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF			Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement			Remarks			
						Lat	CMD	Region						CMP Mo	Day	Time (UT)		Apparent (10-6 Disk)	Corr (Sq Deg)	
0537		26	1318*	1319*	1417	N13	E40	6233	08	29.6	59	1N	M	1.0		112		EFHK		
	RAMY	26	1318	1319	1344	N13	E40	6233	08	29.6	26	SF			E	36		K		
	RAMY	26	1318	1336	1344	N13	E40	6233	08	29.6	26	SF			2	E	30		F	
	RAMY	26	1347	1352	1445	N13	E37	6233	08	29.4	58	1N	M	1.0	3	E	193		FE	
	SVTO	26	1349	1351U	1351D	N14	E44	6233	08	29.9	2D	1F			3	E	190			
	KANZ	26	1349	1353	1435	N13	E39	6233	08	29.5	46	1F				V				
	HOLL	26	1351E	1353U	1439	N14	E42	6233	08	29.7	48D	1B			2	E	111		FH	
0538	KANZ	26	1346	1346	1353	S29	W22	6227	08	24.8	7	SF				V				
0539		26	1443*	1450*	1505	S26	W03	6230	08	26.4	22	SF					21			
	SVTO	26	1443	1450	1458	S27	W01	6230	08	26.5	15	SF			3	E	22			
	SVTO	26	1501	1502	1511	S25	W02	6230	08	26.5	10	SF			3	E	26			
	RAMY	26	1501	1503	1507	S25	W05	6230	08	26.2	6	SF			3	E	14			
0540		26	1537I	1541*	1830	S19	W26	6226	08	24.7	173	2N					210		EFK	
	HOLL	26	1537	1542	1855	S18	W27	6226	08	24.6	198	2N				E	202		K	
	HOLL	26	1537	1619	1855	S18	W27	6226	08	24.6	198	2N			4	E	296		FE	
	RAMY	26	1538	1541	1740	S19	W26	6226	08	24.7	122	1N			3	E	131		F	
	KANZ	26	1538	1553U	1610D	S20	W23	6226	08	24.9	32D	1F				V				
0541	RAMY	26	1541	1542	1556	N16	E42	6233	08	29.8	15	SF	C	8.3	3	E	32			
0542		26	1544	1546	1554	S10	W35	6223	08	24.0	10	SF					74		FH	
	SVTO	26	1544	1546	1551	S11	W35	6223	08	24.0	7	SF			3	E	68			
	HOLL	26	1544	1546	1552	S11	W34	6223	08	24.1	8	SF			4	E	68		FH	
	RAMY	26	1544	1546	1559	S08	W36	6223	08	23.9	15	SF			3	E	87			
0543		26	16054	1618*	1834	S24	W08	6227	08	26.0	149	1N	M	5.2			244		EFKU	
	HOLL	26	1605	1616U	1616D	S23	W06	6227	08	26.2	11D	1N			4	E	240		F	
	HOLL	26	1605	1620	1918	S24	W07	6227	08	26.1	193	2B	M	5.2	4	E	426		UF	
	HOLL	26	1605	1815	1918	S24	W07	6227	08	26.1	193	SN				E	47		K	
	RAMY	26	1608	1618	1741	S26	W10	6227	08	25.9	93	2B			3	E	391		UF	
	SVTO	26	1609	1618	1700D	S25	W08	6227	08	26.0	51D	2N			3	E	307		FE	
	PALE	26	1725E		1757	S24	W11	6227	08	25.9	32D	SF			3	E	54		F	
0544	HOLL	26	1816E	1816U	1836D	S14	W20	6223	08	25.2	20D	SF			4	E	45		F	
0545		26	1857*	1903*	1929	N14	E34	6233	08	29.3	32	SF					46		F	
	RAMY	26	1857	1904	1938	N13	E33	6233	08	29.3	41	SF			3	E	57			
	HOLL	26	1858	1903	1914	N14	E34	6233	08	29.3	16	SF			4	E	56			
	PALE	26	1900	1903	1918	N14	E35	6233	08	29.4	18	SF			3	E	36		F	
	PALE	26	1926	1927	1937	N15	E34	6233	08	29.4	11	SF			3	E	34		F	
	HOLL	26	1927	1929	1937	N14	E33	6233	08	29.3	10	SF			4	E	48			
0546		26	2108I	2111I	2117	N14	E32	6233	08	29.3	9	SF					29			
	HOLL	26	2108	2111	2117	N14	E32	6233	08	29.3	9	SF			4	E	30			
	PALE	26	2109	2112	2124D	N15	E32	6233	08	29.3	15D	SF			3	E	28			
0547		26	2217	2221*	2314	N13	E36	6233	08	29.6	57	SN	C	5.6			70		FK	
	HOLL	26	2217	2221	2329D	N13	E37	6233	08	29.7	72D	SN				E	36		K	
	PALE	26	2217	2303	2320	N14	E38	6233	08	29.8	63	SF	C	5.6	3	E	81		F	
	HOLL	26	2217	2303	2329D	N13	E37	6233	08	29.7	72D	SN	C	5.6	3	E	86		F	
	LEAR	26	2301E	2303	2307	N13	E33	6233	08	29.4	6D	SF	C	5.6	2	E	79		F	
0548	PALE	26	2347	2348	2352	N14	E40	6233	08	30.0	5	SF			3	E	25		F	
0549		27	0008	00104	0027	N14	E36	6233	08	29.7	19	SN					45		F	
	PURP	27	0006E	0014	0028	N13	E37	6233	08	29.8	22D	SN				C	0014	55	0.7	F
	PALE	27	0008	0010	0026	N14	E35	6233	08	29.6	18	SF			3	E	35		F	
0550	URUM	27	0148	0152	0159	N13	E29	6233	08	29.3	11	SN				C	80		0.9	D
0551	YUNN	27	0229E	0235U	0249	S11	W30	6223	08	24.8	20D	SN				P	0235	31		0.4
0552		27	03293	03333	0343	N14	E28	6233	08	29.3	14	SN					119		1.8	E
	YUNN	27	0329	0334	0336D	N14	E27	6233	08	29.2	7D	SN				P	110		1.3	E
	URUM	27	0331	0336	0336D	N14	E28	6233	08	29.3	5D	1N				C	209		2.4	E
	LEAR	27	0332	0333	0342	N13	E28	6233	08	29.2	10	SF			3	E	39			
	MITK	27	0332	0334	0344	N14	E27	6233	08	29.2	12	SB				C	0334			E

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Grp #	Sta	Start Day	Max (UT)	End (UT)	NOAA/USAF			CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
					Lat	Cmd	Region									
0553		27 03482	03515	0426	S18	W33	6226	08 24.6	38	2N	H 1.8		417	6.4	EFZ	
	MITK	27 0348	0351	0451D	S18	W33	6226	08 24.6	63D	1B		C	0351	330	4.6	E
	TACH	27 0348	0352	0427	S18	W35	6226	08 24.5	39	1B		2 C	0352	347	4.7	E
	LEAR	27 0350	0352U	0402D	S21	W32	6226	08 24.7	12D	2F		3 E		348		
	PALE	27 0350	0356	0412	S19	W32	6226	08 24.7	22	2F	M 1.8	3 E		286		ZE
	URUM	27 0351E	0354	0435	S17	W34	6226	08 24.6	44D	2B		C		563	7.7	E
	YUNN	27 0353E	0353U	0432	S18	W33	6226	08 24.6	39D	2B		P	0353	629	8.6	F
0554	URUM	27 0548	0552	0612	N25	W33		08 24.7	24	SF		C		32	0.4	E
0555	SVTO	27 0700	0715U	0715D	S09	W37	6223	08 24.5	15D	1F		3 E		101		
0556		27 07005	07144	0733	S13	W50	6235	08 23.5	33	1N				136	2.1	E
	SVTO	27 0700	0716U	0716D	S14	W49	6235	08 23.6	16D	1F		3 E		168		
	URUM	27 0700	0718	0734	S13	W51	6235	08 23.4	34	SN		C		48	0.8	E
	YUNN	27 0703	0718	0730	S12	W50	6235	08 23.5	27	1B		C		157	2.7	
	BUCA	27 0705	0714	0735	S13	W48	6235	08 23.7	30	1N		C	0714	172	2.9	
0557	YUNN	27 0714	0720	0746	N14	E31	6233	08 29.6	32	SF		C		31	0.4	
0558	YUNN	27 0913E	0913U	0922	N21	E43	6240	08 30.7	9D	SN		P	0913	31	0.4	
0559	SVTO	27 0916	0920	0924	N15	E29	6233	08 29.6	8	SF		3 E		33		
0560		27 09253	09291	0938	N13	E40	6240	08 30.4	13	SF				41	0.9	D
	SVTO	27 0925	0929	0937	N15	E38	6240	08 30.3	12	SF		3 E		19		
	YUNN	27 0925	0930	0937D	N13	E41	6240	08 30.5	12D	SN		P		63	0.9	
	KHAR	27 0928		0940	N11	E40	6240	08 30.4	12	SF		2 V	0928			D
0561	SVTO	27 0959	0959	1006	N15	E28	6233	08 29.5	7	SF		3 E		19		
0562	SVTO	27 1028	1039	1106	N15	E26	6233	08 29.4	38	SF	C 3.5	3 E		48		
0563	SVTO	27 1039	1043	1049	S21	W35	6226	08 24.8	10	SF		3 E		21		
0564	SVTO	27 1109	1110	1156	S09	W09	6228	08 26.8	47	SF		3 E		19		
0565	RAMY	27 1125	1125	1138	N13	E29	6233	08 29.7	13	SF		2 E		25		F
0566		27 1401*	1403*	1444	N15	E30	6233	08 29.8	43	SF				19		F
	HOLL	27 1401	1403	1427	N16	E30	6233	08 29.8	26	SF		3 E		16		F
	RAMY	27 1420E	1435U	1455	N15	E32	6233	08 30.0	35D	SF		3 E		22		F
	HOLL	27 1433	1433	1449	N13	E27	6233	08 29.6	16	SF		3 E		20		F
0567	HOLL	27 1402	1422	1433	S07	W13	6228	08 26.6	31	SF		3 E		19		
0568	HOLL	27 1451	1452	1528	S09	W41	6223	08 24.5	37	SF		3 E		11		
0569	HOLL	27 1503E	1503U	1521	N13	E13	6231	08 28.6	18D	SF		2 E		47		F
0570	HOLL	27 1528E	1528U	1532	N14	E20	6233	08 29.1	4D	SF		3 E		17		
0571		27 15492	1603	1709	N13	E28	6233	08 29.8	80	SF				23		F
	HOLL	27 1549	1603	1804	N13	E28	6233	08 29.8	135	SF		3 E		29		F
	RAMY	27 1551	1603	1635	N13	E28	6233	08 29.8	44	SF		3 E		26		F
	PALE	27 1637E	1637U	1649	N14	E27	6233	08 29.7	12D	SF		3 E		13		
0572	HOLL	27 1700	1701	1710	N24	W36		08 24.9	10	SF		3 E		22		
0573	HOLL	27 1756	1800	1825	S20	W41	6226	08 24.6	29	SF		3 E		16		
0574		27 1813*	1832*	2100	N14	E24	6233	08 29.6	167	1N	M 2.1			168		EFHKTUZ
	HOLL	27 1813	1832	2207	N14	E23	6233	08 29.5	234	1N		E		105		KT
	HOLL	27 1813	2120	2207	N14	E23	6233	08 29.5	234	2B		3 E		362		ZU
	RAMY	27 1822	1832	2203D	N13	E21	6233	08 29.3	221D	1N		E		90		KT
	RAMY	27 1822	2104	2203D	N13	E21	6233	08 29.3	221D	2B		3 E		277		FHT
	PALE	27 1825	1840	1857	N14	E23	6233	08 29.5	32	SF		4 E		21		F
	PALE	27 1905	1910	2026	N14	E26	6233	08 29.8	81	SB		E		91		K
	PALE	27 1905	1914	2026	N14	E26	6233	08 29.8	81	SF	M 2.1	4 E		64		FE
	PALE	27 2037	2105	2156	N14	E26	6233	08 29.8	79	2B	X 3.0	3 E		331		FH

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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	Time (UT)		Apparent (10-6 Disk)	Corr (Sq Deg)	
0575		27	1843	1843	1850	S11	W37	6223	08	25.0	7	SF			14				
	RAMY	27	1843	1843	1848	S10	W37	6223	08	25.0	5	SF	3	E	12				
	HOLL	27	1843	1843	1852	S12	W37	6223	08	25.0	9	SF	3	E	16				
0576	HOLL	27	2008	2009	2017	S27	W17	6230	08	26.5	9	SF	3	E	17				
0577	PALE	27	2308	2310	2331D	S19	W41	6226	08	24.8	23D	SF	3	E	13				
0578		27	2332	2338	2348	N14	E24	6233	08	29.8	16	SF			49		E		
	LEAR	27	2332	2338	2347	N13	E24	6233	08	29.8	15	SF	3	E	49				
	MITK	27	2336E		2349	N14	E23	6233	08	29.7	13D	SF		C	2340		E		
0579	YUNN	28	0050E	0056U	0106	S16	W51	6223	08	24.2	16D	SN		P	0056	16	0.3		
0580		28	0334*	0342*	0438	N14	E19	6233	08	29.6	64	1N	C	9.5		161	2.5	EFKTZ	
	YUNN	28	0334	0342	0456	N14	E19	6233	08	29.6	82	SB		C		47	0.5	FK	
	TACH	28	0336	0343	0411	N13	E16	6233	08	29.3	35	1B	3	C	0343	448	4.8	TZ	
	LEAR	28	0338	0348	0501	N13	E18	6233	08	29.5	83	SF	C	9.5		66		K	
	LEAR	28	0338	0423	0501	N13	E18	6233	08	29.5	83	1F	3	E		145		F	
	PALE	28	0342	0349	0408	N14	E20	6233	08	29.7	26	SF	3	E		46		F	
	MITK	28	0351E		0354D	N13	E18	6233	08	29.5	3D	1F		P	0353	250	2.7	E	
	TACH	28	0421	0423	0434	N14	E22	6233	08	29.8	13	SB	3	C	0423	173	1.9	TZ	
	PALE	28	0421	0423	0435D	N14	E23	6233	08	29.9	14D	1F	C	6.5	3	E	112		F
	0581	YUNN	28	0420E	0423U	0432	S24	W28	6227	08	26.0	12D	SN		P	0423	47	0.7	
0582		28	0549*	0550*	0616	N14	E19	6233	08	29.7	27	SF			43	1.0			
	LEAR	28	0549	0550	0554	N13	E18	6233	08	29.6	5	SF	3	E	19				
	LEAR	28	0559	0605	0608	N13	E19	6233	08	29.7	9	SF	3	E	16				
	YUNN	28	0603	0620	0647	N15	E20	6233	08	29.8	44	SN		C	94	1.0			
0583		28	0748	0754	0758	N14	E18	6233	08	29.7	10	1N			47	0.5	FK		
	ISTA	28	0711E		0750	N13	E19	6233	08	29.7	39D	1N		V			FK		
	YUNN	28	0748	0754	0805	N14	E17	6233	08	29.6	17	SN		P	47	0.5			
0584		28	08143	08224	0848	N14	E16	6233	08	29.5	34	SN			77	1.0	EF		
	HTPR	28	0814	0822	0845	N14	E14	6233	08	29.4	31	SN		C	0822	100	1.1	E	
	YUNN	28	0814	0823	0850	N14	E16	6233	08	29.5	36	SN		C		94	1.0		
	SVTO	28	0817	0826	0848	N14	E16	6233	08	29.5	31	SF	3	E		36		F	
	ISTA	28	0824E		0850D	N13	E18	6233	08	29.7	26D	1N		V				F	
0585		28	0834E	0837	0844	S14	W65	6235	08	23.4	10D	1N			42		EG		
	SVTO	28	0834E	0837	0842	S15	W66	6235	08	23.4	8D	SF	3	E	42				
	ISTA	28	0836E		0846	S12	W64	6235	08	23.5	10D	1B		V			EG		
0586		28	0849*	0907*	0954	N14	E14	6233	08	29.4	65	1N	M	4.5		261	4.1	DEFHKO	
	KANZ	28	0847E	0909	0927D	N15	E15	6233	08	29.5	40D	1N		V					
	SVTO	28	0849	0910	0953	N15	E15	6233	08	29.5	64	1B	M	4.5	3	E	204		F
	SVTO	28	0849	0927	0953	N15	E15	6233	08	29.5	64	SB		E		62		K	
	KHAR	28	0850	0907U	1002D	N13	E13	6233	08	29.3	72D	1N		P	0908	400	4.2	EHO	
	HTPR	28	0858	0909	0950	N15	E13	6233	08	29.3	52	1B		C	0909	290	3.1		
	YUNN	28	0900	0907	1000	N15	E15	6233	08	29.5	60	1B		C		472	5.1	F	
	HURB	28	0908E	0908	0917D	N12	E12	6233	08	29.3	9D	2N						D	
	LEAR	28	0914E	0914U	1000D	N14	E16	6233	08	29.6	46D	1F		E		139		F	
	0587		28	10121	1015*	1109	N15	E17	6233	08	29.7	57	SN	M	1.3		83	1.5	F
HTPR		28	1012	1018	1050	N15	E15	6233	08	29.6	38	SN		C	1018	140	1.5		
SVTO		28	1013	1015	1059	N15	E17	6233	08	29.7	46	SN	M	1.3	3	E	42		F
RAMY		28	1040E	1128	1137	N14	E18	6233	08	29.8	57D	SF	3	E		67		F	
0588		28	11007	1103*	1131	S12	W46	6223	08	25.0	31	SF			82	1.9			
	HTPR	28	1100	1103	1130	S12	W45	6223	08	25.1	30	SF		C	1103	120	1.9		
	SVTO	28	1101	1103	1146	S14	W47	6223	08	24.9	45	SF	3	E		67			
	KANZ	28	1101	1104	1115	S11	W47	6223	08	24.9	14	SF		V					
	RAMY	28	1107	1117	1134	S10	W45	6223	08	25.1	27	SF	3	E		60			
0589		28	1137*	1140*	1226	N14	E18	6233	08	29.8	49	SF			27		FK		
	RAMY	28	1137	1140	1240	N14	E19	6233	08	29.9	63	SF	3	E	41		F		
	RAMY	28	1137	1213	1240	N14	E19	6233	08	29.9	63	SF		E	26		K		
	SVTO	28	1153	1155	1158	N15	E17	6233	08	29.8	5	SF	3	E	14		F		



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Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt Xray	Obs See	Type	Area Measurement		Remarks
														Time (UT)	Apparent (10-6 Disk)	
0590	KANZ	28 1111	1111	1115	S13	E68	6238	09	2.6	4	SF		V			
0591		28 12377	12423	1251	S15	W54	6223	08	24.4	14	SF			60		D
	HTPR	28 1237	1243	1250	S16	W55	6223	08	24.3	13	SF		C			
	RAMY	28 1241	1242	1252	S15	W57	6223	08	24.2	11	SF	3	E	60		
	HURB	28 1241E	1245	1247D	S15	W48	6223	08	24.9	6D	1F					D
	KANZ	28 1244	1244	1252	S15	W56	6223	08	24.3	8	SF		V			
0592		28 12416	1249*	1413	N13	E17	6233	08	29.8	92	1N M 4.9			100	1.5	EFJKU
	RAMY	28 1241	1249	1419	N13	E17	6233	08	29.8	98	1N M 4.9	3	E	124		F
	RAMY	28 1241	1304	1419	N13	E17	6233	08	29.8	98	1N		E	152		K
	KANZ	28 1244	1252	1411	N14	E17	6233	08	29.8	87	1F		V			
	HTPR	28 1246	1255	1400	N13	E17	6233	08	29.8	74	SB		C	1255	140	1.5
	HURB	28 1247	1250	1323D	N13	E18	6233	08	29.9	36D	2N					UJ
	HOLL	28 1254E	1254U	1405D	N13	E16	6233	08	29.7	71D	SN	1	E	60		FE
	SVTO	28 1337E	1340U	1416	N14	E15	6233	08	29.7	39D	SF	3	E	24		F
0593	RAMY	28 1420	1425	1442	N13	E18	6233	08	29.9	22	SF	3	E	28		F
0594		28 1451	1459	1524	N13	E16	6233	08	29.8	33	SF			44		F
	RAMY	28 1451	1459	1527	N13	E18	6233	08	30.0	36	SF	3	E	41		F
	HOLL	28 1503E	1503U	1521	N13	E13	6233	08	29.6	18D	SF	2	E	47		F
0595	RAMY	28 1528	1533	1543	N13	E14	6233	08	29.7	15	SF	3	E	31		F
0596		28 1538	15336	1603	S28	W48	6226	08	24.9	25	SF			24		
	HOLL	28 1533E	1533	1623	S29	W48	6226	08	24.9	50D	SF	3	E	27		
	RAMY	28 1538	1539	1543	S28	W49	6226	08	24.8	5	SF	3	E	22		
0597		28 1609	1609	1625	S26	W34	6227	08	26.0	16	SF			39		F
	RAMY	28 1609	1609	1618	S25	W35	6227	08	26.0	9	SF	3	E	20		
	SVTO	28 1609	1609	1618	S27	W34	6227	08	26.0	9	SF	2	E	21		
	HOLL	28 1609E	1609	1640	S26	W34	6227	08	26.0	31D	SN	3	E	77		F
0598	HOLL	28 1624	1633	1635	S22	W52	6226	08	24.7	11	SF C 5.2	3	E	10		
0599		28 16274	16344	1707	N14	E15	6233	08	29.8	40	SF			38		F
	RAMY	28 1627	1634	1717	N14	E15	6233	08	29.8	50	SF	3	E	45		F
	SVTO	28 1628E	1630U	1646	N15	E15	6233	08	29.8	18D	SF	2	E	37		F
	HOLL	28 1631	1638	1719	N14	E16	6233	08	29.9	48	SN	3	E	33		
0600	HOLL	28 1709	1711	1734	S22	W52	6226	08	24.7	25	SN C 4.3	3	E	36		
0601		28 1710	17111	1725	S23	W40	6227	08	25.6	15	SF			40		F
	HOLL	28 1710	1711	1726	S23	W36	6227	08	25.9	16	SF	3	E	35		
	RAMY	28 1710	1712	1724	S23	W43	6227	08	25.4	14	SF	3	E	46		F
0602		28 1757*	1803*	1909	N14	E14	6233	08	29.8	72	SN M 1.8			74		EFK
	HOLL	28 1757	1831	1934	N14	E13	6233	08	29.7	97	1N	3	E	113		FE
	PALE	28 1800	1803	1805	N14	E15	6233	08	29.9	5	SF	3	E	30		
	PALE	28 1819	1831	1905	N15	E14	6233	08	29.8	46	1N	3	E	110		F
	RAMY	28 1820E	1829	1925	N14	E13	6233	08	29.7	65D	SB M 1.8	3	E	92		F
	RAMY	28 1820E	1832	1925	N14	E13	6233	08	29.7	65D	SN		E	84		K
	PALE	28 1917	1920	1922	N14	E13	6233	08	29.8	5	SF	3	E	16		
0603	HOLL	28 1821	1825	1828	S22	W42	6227	08	25.5	7	SF	3	E	10		F
0604	HOLL	28 1928	1932	1952	S11	W50	6223	08	25.0	24	SF	3	E	19		
0605	HOLL	28 1938	1939	1951	S23	W37	6227	08	26.0	13	SF	3	E	12		
0606	HOLL	28 2043	2046	2056	S13	W57	6223	08	24.6	13	SF	3	E	29		F
0607		28 2052*	2105*	2308	N13	E12	6233	08	29.8	136	SF M 1.8			48		EFK
	HOLL	28 2052	2129	2339	N13	E13	6233	08	29.8	167	SN		E	12		K
	HOLL	28 2052	2233	2339	N13	E13	6233	08	29.8	167	1N M 1.8	3	E	132		FE
	RAMY	28 2057	2105	2114	N13	E13	6233	08	29.8	17	SF	3	E	19		F
	RAMY	28 2144	2151	2220D	N13	E09	6233	08	29.6	36D	SF	3	E	40		F
	LEAR	28 2301	2310	2358	N13	E11	6233	08	29.8	57	SF	3	E	37		

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Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Xray	Obs See	Type	Area Measurement			Remarks	
													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0608	HOLL	28	2111	2120	2145	S13 W56 6223	08	24.6	34	SF	3	E		31			
0609	HOLL	28	2115	2116	2146	S07 W30 6228	08	26.6	31	SF	3	E		10			
0610	HOLL	28	2221	2228	2305	S24 W56 6226	08	24.6	44	SF	3	E		45			F
0611	HOLL	29	0015	0016	0020	S12 W53 6223	08	25.0	5	SF	3	E		24			F
0612	URUM	29	0221	0225	0237	N11 E04 6233	08	29.4	16	SN		C		80	0.8		D
0613	URUM	29	0317	0321	0334	N12 E04 6233	08	29.4	17	SF		C		64	0.7		D
0614	URUM	29	0426	0430	0454	S22 W49 6227	08	25.4	28	2N 1N		C		113	2.1		U
	TACH	29	0426	0433	0451	S21 W46 6227	08	25.6	25	2N	3	C	0433	301	5.2		U
	YUNN	29	0428	0432	0454	S22 W50 6227	08	25.3	26	2B		P		393	7.5		U
	LEAR	29	0429	0433	0451	S23 W50 6227	08	25.3	22	1F M 1.5	3	E		215			U
0615	LEAR	29	0452	0456	0500	N14 E08 6233	08	29.8	11	SF				59	1.0		E
	URUM	29	0454	0456	0506	N14 E08 6233	08	29.8	12	SF		C		96	1.0		E
0616	URUM	29	0555	0604	0616	S21 W49 6226	08	25.5	21	SF		C		48	0.9		E
	LEAR	29	0557	0559	0614	S22 W50 6226	08	25.4	17	SF	3	E		19			F
	YUNN	29	0558	0603	0621	S21 W50 6226	08	25.4	23	SN		C		31	0.6		
0617	URUM	29	0640	0710	0754	N13 E07 6233	08	29.8	74	SB		C		129	1.3		E
	BUCA	29	0650	0711	0800D	N16 E04 6233	08	29.6	70D	SN		C	0711	129	1.3		D
	YUNN	29	0652	0713	0756	N13 E08 6233	08	29.9	64	1B		C		220	2.3		
	HTPR	29	0705	0712	0745	N14 E07 6233	08	29.8	40	1N		C	0712	180	2.0		
	HURB	29	0707	0713	0733D	N12 E07 6233	08	29.8	26D	1N							E
	KANZ	29	0717E	0724	0751	N13 E09 6233	08	30.0	34D	SF		V					
	ISTA	29	0724E	0756	N15 E07 6233	08	29.8	32D	1N			V					E
0618	HTPR	29	0705	0712	0745	N15 E16 6240	08	30.5	40	SN		C	0712	100	1.1		DFK
	LEAR	29	0705	0713	0740	N14 E11 6240	08	30.1	35	SF		E		75			
	LEAR	29	0705	0727	0740	N14 E11 6240	08	30.1	35	SF C 9.4	3	E		58			K
	URUM	29	0706	0721	0810	N14 E16 6240	08	30.5	64	SN		C		96	1.0		D
	SVTO	29	0706	0812U	0936D	N14 E12 6240	08	30.2	150D	SN	2	E		84			F
	YUNN	29	0707	0713	0756	N14 E17 6240	08	30.6	49	SN		C		94	1.0		
	BUCA	29	0709	0719	0843	N17 E14 6240	08	30.4	94	SF		C	0719	107	1.1		D
	KANZ	29	0717E	0728	0747	N14 E17 6240	08	30.6	30D	SF		V					
	ISTA	29	0724E	0727	N15 E17 6240	08	30.6	3D	1N			V					D
0619	KHAR	29	0806	0808U	0855	N13 E03 6233	08	29.6	49	1N	2	P	0808	175	2.1		EFJOW
	URUM	29	0806	0830	0856	N15 E04 6233	08	29.6	50	SB		C		113	1.2		EOV
	KANZ	29	0807	0810	0846	N13 E02 6233	08	29.5	39	SF		V					F
	LEAR	29	0807	0813	0843	N13 E03 6233	08	29.6	36	SF M 1.3	3	E		64			F
	ISTA	29	0808	0810	0854	N14 E03 6233	08	29.6	46	1B		V					W
	HTPR	29	0812	0815D	N13 E02 6233	08	29.5	3D	SB		C	0814	180	1.9			
	ATHN	29	0813E	0815U	0820D	N12 W03 6233	08	29.1	7D	SF	2	V	0815	191	2.0		
	HURB	29	0817E	0817	0835D	N12 E03 6233	08	29.6	18D	2N							J
	YUNN	29	0823E	0824U	0850	N14 E03 6233	08	29.6	27D	1N		P	0824	314	3.3		
	HTPR	29	0824E	0905	N13 E02 6233	08	29.5	41D	SN		C	0820	190	1.9			
0620	HTPR	29	0850	0923	1000	S30 W32 6230	08	26.8	70	SF		C	0923	10	0.2		D
0621	HTPR	29	0914	0920	0940	S12 E90 6241	09	5.2	26	1N				60			AOY
	KHAR	29	0917U	0929U	S12 E90 6241	09	5.2	12U	1N		2	P	0917	60			AY
0622	HTPR	29	0932	0934	0945	S18 W53 6226	08	25.4	13	SF		C	0934	44	1.0		D
	URUM	29	0932	0936	0940	S19 W51 6226	08	25.5	8	SF		C		48	0.9		D
	LEAR	29	0933	0933	0940	S22 W59 6226	08	24.9	7	SF	3	E		23			
	KANZ	29	0933	0937	0944	S20 W50 6226	08	25.6	11	SF		V					

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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)		
0623	HTPR	29 0958	1006	1025	N13	E05	6233	08 29.8	27	SF		C	1006	50	0.5	
0624		29 10162	1020	1045	N23	E18	6233C	08 30.8	29	SN				60	0.9	
	HTPR	29 1016	1020	1045	N23	E18	6233C	08 30.8	29	SN		C	1020	80	0.9	
	SVTO	29 1018	1019U	10360	N23	E18	6233C	08 30.8	180	SF	2	E		39		
0625	KANZ	29 1146	1150	1157	S13	W72	6223	08 24.0	11	SF		V				
0626		29 11496	11542	1211	S21	W50	6227	08 25.6	22	SF	C 3.7			57	1.8	DF
	HTPR	29 1149	1155	1220	S20	W50	6227	08 25.7	31	SF		C	1155	90	1.8	
	RAMY	29 1150	1154	1219	S21	W53	6227	08 25.4	29	SF		3	E	54		
	KANZ	29 1154	1154	1205	S22	W50	6227	08 25.6	11	SF		V				
	HURB	29 1154E	1156	1212D	S20	W46	6227	08 26.0	180	1N						D
	SVTO	29 1155	1155	1200	S23	W53	6227	08 25.4	5	SF	C 3.7	3	E	28		F
0627		29 12082	1213	1218	S12	W58	6223	08 25.1	10	SF				33	1.3	
	HTPR	29 1208	1213	1220	S12	W57	6223	08 25.2	12	SF		C	1213	50	1.3	
	RAMY	29 1210	1213	1217	S12	W60	6223	08 25.0	7	SF		3	E	16		
0628	HOLL	29 1320	1323U	1337	S13	W62	6223	08 24.9	17	SF	C 2.7	3	E	25		F
0629	HOLL	29 1343	1345	1351	S07	W40	6228	08 26.6	8	SF		3	E	21		F
0630		29 1355*	1400*	1426	S23	W50	6227	08 25.7	31	SF				38		FHK
	HOLL	29 1355	1400	1424	S23	W48	6227	08 25.9	29	SF		3	E	37		FH
	RAMY	29 1357	1401	1423	S23	W50	6227	08 25.7	26	SF			E	51		K
	RAMY	29 1357	1421	1423	S23	W50	6227	08 25.7	26	SF		3	E	40		F
	RAMY	29 1424	1433	1436	S22	W50	6227	08 25.7	12	SF		3	E	24		
0631	HOLL	29 1456	1457	1536	S13	W65	6223	08 24.7	40	SF	C 4.0	3	E	36		F
0632		29 1810	18111	1818	S12	W66	6223	08 24.8	8	SF				28		F
	PALE	29 1810	1811	1816	S12	W63	6223	08 25.0	6	SF		3	E	11		
	HOLL	29 1810	1812	1820	S12	W68	6223	08 24.6	10	SF		3	E	45		F
0633		29 18152	18172	1824	S13	E54	6238	09 2.8	9	SF	C 2.2			29		F
	PALE	29 1815	1817	1826	S13	E54	6238	09 2.8	11	SF	C 2.2	3	E	32		
	HOLL	29 1816	1819	1825	S13	E54	6238	09 2.8	9	SF	C 2.2	3	E	32		F
	RAMY	29 1817	1817	1822	S12	E55	6238	09 2.9	5	SF	C 2.2	3	E	24		
0634	HOLL	29 1856	1856	1902	S09	W24	6230A	08 28.0	6	SF		3	E	13		
0635		29 1932	1932	1943	S12	E53	6238	09 2.8	11	SF				53		F
	PALE	29 1932	1932	1941	S13	E53	6238	09 2.8	9	SF		3	E	35		
	HOLL	29 1932	1932	1944	S12	E53	6238	09 2.8	12	SF		3	E	59		F
	RAMY	29 1932	1932	1945	S12	E52	6238	09 2.7	13	SF		3	E	66		
0636		29 1948	1949	1954	S12	W64	6223	08 25.0	6	SF				33		F
	RAMY	29 1948	1949	1953	S12	W65	6223	08 24.9	5	SF		3	E	26		
	HOLL	29 1948	1949	1955	S12	W63	6223	08 25.1	7	SF		3	E	40		F
0637	RAMY	29 2001	2001	2004	N13	W01	6233	08 29.7	3	SF		3	E	12		
0638		29 20361	20392	2233	N13	W01	6233	08 29.8	117	1N	M 1.6			124		EF
	RAMY	29 2036	2039	2221	N13	W02	6233	08 29.7	105	1B	M 1.6	3	E	111		F
	HOLL	29 2037	2040	2246	N13	W03	6233	08 29.6	129	1N	M 1.6	3	E	118		FE
	PALE	29 2037	2041	2233	N14	E01	6233	08 29.9	116	1N	M 1.6	3	E	143		
0639		29 21032	21061	2217	S14	W73	6223	08 24.4	74	SF				48		F
	HOLL	29 2103	2106	2316	S14	W73	6223	08 24.4	133	SF		3	E	52		F
	RAMY	29 2105	2107	2118	S13	W73	6223	08 24.4	13	SF		3	E	44		F
0640	HOLL	29 2214	2214	2244	S25	W49	6227	08 26.1	30	SF		3	E	20		F
		29 2223		2245	No Flare Patrol											
0641	HOLL	29 2332	2335	2339	S11	W67	6223	08 24.9	7	SF		3	E	16		F
0642	HOLL	29 2347	2349	2408	S14	E46	6238	09 2.5	21	SF		3	E	21		F

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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)	
0643	HOLL	29	2350	2350	2401	S11	W48	6228	08	26.4	11	SF		3	E		17		F
0644		30	0044E	0044U	0202	S12	W72	6223	08	24.6	78D	1N					132		
	LEAR	30	0044E	0044U	0202	S14	W71	6223	08	24.7	78D	SF		3	E		75		
	YUNN	30	0100E	0107U	0212D	S11	W72	6223	08	24.6	72D	1N			P	0107	189		
0645		30	0109	0110	0119	N14	W03	6233	08	29.8	10	SN					28	0.3	F
	LEAR	30	0109	0110	0118	N14	W03	6233	08	29.8	9	SF		3	E		25		F
	YUNN	30	0112E	0112U	0120	N14	W03	6233	08	29.8	8D	SB			P	0112	31	0.3	
0646		30	0157	0158	0211	N14	W12	6233	08	29.2	14	SN M 1.2					100	1.1	
	LEAR	30	0157	0158	0211	N14	W12	6233	08	29.2	14	SN M 1.2	3	E			94		
	YUNN	30	0158E	0158U	0211	N15	W13	6233	08	29.1	13D	SB			P	0158	173	1.8	
	PURP	30	0201E	0201U	0210	N14	W12	6233	08	29.2	9D	SN			P	0201	34	0.4	
0647	LEAR	30	0303	0303	0308	S15	W79	6223	08	24.1	5	SF		3	E		84		
0648	YUNN	30	0350E	0350U	0410	N15	W04	6233	08	29.8	20D	SN			P	0350	94	1.0	
0649	TACH	30	0353	0355	0403	S10	W53	6228	08	26.2	10	SB		3	C	0355	11	0.2	E
0650		30	0407Z	0410Z	0416	S24	W62	6227	08	25.4	9	SN					32		
	YUNN	30	0407	0412	0417	S23	W61	6227	08	25.5	10	SN			C		47		
	LEAR	30	0409	0410	0414	S24	W63	6227	08	25.3	5	SF		3	E		17		
0651		30	0422	0435*	0506	N13	W07	6233	08	29.6	44	SN M 1.0					123	1.8	EKTZ
	PURP	30	0422	0435	0447	N13	W06	6233	08	29.7	25	SN			P	0435	21	0.2	
	LEAR	30	0422	0436	0509	N13	W06	6233	08	29.7	47	SF M 1.0			E		45		K
	MITK	30	0422	0438	0516D	N13	W08	6233	08	29.6	54D	SN			C	0438			E
	LEAR	30	0422	0447	0509	N13	W06	6233	08	29.7	47	SF M 1.0	3	E			58		
	YUNN	30	0422	0457U	0515	N12	W08	6233	08	29.6	53	1N			P	0457	220	2.3	
	TACH	30	0450E		0512	N14	W07	6233	08	29.7	22D	1B		3	C	0450	270	2.8	ETZ
0652		30	0448Z	0452Z	0508	S29	W42	6230	08	26.9	20	SN					82	1.2	EF
	MITK	30	0448	0452	0516D	S30	W42	6230	08	26.9	28D	SB			C	0452			E
	YUNN	30	0449E	0457	0515D	S29	W45	6230	08	26.7	26D	SN			P		31	0.6	F
	TACH	30	0450E		0514	S28	W40	6230	08	27.1	24D	1B		3	C	0450	163	2.6	E
	LEAR	30	0450	0452	0505	S30	W43	6230	08	26.8	15	1F		3	E		101		F
	PURP	30	0451E	0451U	0505	S28	W42	6230	08	26.9	14D	SN			P	0451	34	0.5	
0653	LEAR	30	0535	0539	0547	S24	W64	6227	08	25.3	12	SF		3	E		12		
0654		30	0611Z	0613Z	0628	N12	W07	6233	08	29.7	17	SF C 1.0					64	1.4	EF
	URUM	30	0611	0615	0640	N13	W09	6233	08	29.6	29	SN			C		129	1.4	E
	SVTO	30	0612	0614U	0625D	N12	W04	6233	08	29.9	13D	SF C 1.0	2	E			36		F
	LEAR	30	0613	0613	0620	N12	W08	6233	08	29.6	7	SF		3	E		28		F
	KANZ	30	0615E	0615U	0624	N12	W07	6233	08	29.7	9D	SF			V				
0655	SVTO	30	0958E	1000U	1007	S16	E30	6237	09	1.7	9D	SF		3	E		20		
0656		30	1023E	1024	1057D	N12	W10	6233	08	29.7	34D	SF C 2.6					25		DF
	RAMY	30	1023E	1023U	1057D	N12	W10	6233	08	29.7	34D	SF C 2.6	2	E			25		F
	HURB	30	1024E	1024	1035D	N11	W10	6233	08	29.7	11D	SF							D
0657	RAMY	30	1153	1154	1202	N13	W10	6233	08	29.7	9	SF		3	E		16		
0658	RAMY	30	1229	1230	1232	S16	W40	6225	08	24.1	3	SF		3	E		25		
0659	RAMY	30	1243	1245	1302	N13	W10	6233	08	29.7	19	SF		3	E		12		
0660		30	1303Z	1310Z	1448	N13	W10	6233	08	29.8	105	1B M 2.5					130		FK
	RAMY	30	1303	1312	1448	N13	W10	6233	08	29.8	105	1B			E		106		K
	RAMY	30	1303	1319	1448	N13	W10	6233	08	29.8	105	1B	3	E			234		F
	HOLL	30	1308E	1310	1449	N12	W10	6233	08	29.9	101D	1B			E		88		K
	HOLL	30	1308E	1316	1449	N13	W10	6233	08	29.9	101D	1B M 2.5	3	E			125		F
	KANZ	30	1309	1316	1352D	N12	W10	6233	08	29.6	43D	1N			V				
	SVTO	30	1309E	1310U	1447D	N12	W10	6233	08	29.8	90D	SN		2	E		97		F
0661	HOLL	30	1426	1426	1453	S29	W48	6230	08	26.8	27	SF		3	E		22		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0662	HOLL	30	1431	1433	1444	S09	W55	6228	08	26.5	13	SF		3	E		14			
0663	HOLL	30	1517	1518	1526	S24	W67	6227	08	25.5	9	SF		3	E		27			
0664		30	1550*	1601*	1642	S07	W56	6228	08	26.5	52	SF					24			FK
	HOLL	30	1550	1601	1658	S08	W57	6228	08	26.4	68	SF			E		21			K
	HOLL	30	1550	1628	1658	S08	W57	6228	08	26.4	68	SF		3	E		31			F
	RAMY	30	1600	1602	1606	S06	W56	6228	08	26.5	6	SF		3	E		14			
	RAMY	30	1618	1622	1645	S06	W56	6228	08	26.5	27	SF			E		28			K
	RAMY	30	1618	1627	1645	S06	W56	6228	08	26.5	27	SF		3	E		25			
0665	HOLL	30	1608	1616	1630	S14	E47	6239A	09	3.2	22	SF		3	E		22			
0666		30	16381	1643	1648	S20	E34	6242	09	2.3	10	SF					22			
	HOLL	30	1638	1643	1649	S19	E34	6242	09	2.3	11	SF		3	E		22			
	RAMY	30	1639	1643	1647	S21	E35	6242	09	2.4	8	SF		3	E		22			
0667	HOLL	30	1639	1639	1649	S20	W68	6226	08	25.5	10	SF		3	E		15			
0668		30	17041	17051	1716	S23	W69	6227	08	25.4	12	SF					47			
	HOLL	30	1704	1705	1723	S20	W69	6227	08	25.4	19	SN		3	E		63			
	RAMY	30	1705	1705	1713	S24	W68	6227	08	25.4	8	SF		3	E		36			
	PALE	30	1705	1706	1712	S26	W70	6227	08	25.3	7	SF		3	E		41			
0669		30	17115	1717	1726	S08	W58	6228	08	26.4	15	SF					55			FH
	RAMY	30	1711	1717	1728	S07	W56	6228	08	26.5	17	SF		3	E		59			F
	PALE	30	1716	1717	1725	S09	W59	6228	08	26.3	9	SF		3	E		51			FH
0670		30	17197	17251	1737	N14	W12	6233	08	29.8	18	SF					16			
	HOLL	30	1719	1725	1737	N15	W12	6233	08	29.8	18	SF		3	E		18			
	PALE	30	1726	1726	1737	N14	W13	6233	08	29.7	11	SF		4	E		13			
0671	HOLL	30	1959	2002	2004	S11	W78	6223	08	25.0	5	SF		3	E		44			H
0672	HOLL	30	2035	2043	2114	N14	W12	6233	08	29.9	39	SF		3	E		16			F
0673	HOLL	30	2108	2108	2125	S16	E27	6237	09	1.9	17	SF		3	E		15			
0674	HOLL	30	2131	2134	2142	N13	W17	6233	08	29.6	11	SF	C 2.5	3	E		66			
0675	HOLL	30	2152	2152	2159	S21	W78	6226	08	24.9	7	SF		3	E		20			
0676	HOLL	30	2204	2216	2235	S23	W67	6227	08	25.7	31	SF		3	E		46			
0677		30	22085	22241	2258	N13	W11	6233	08	30.1	50	SF					58			F
	HOLL	30	2208	2224	2306	N14	W09	6233	08	30.2	58	SF		3	E		73			F
	PALE	30	2213	2225	2250	N12	W13	6233	08	29.9	37	SF		3	E		44			
0678	HOLL	30	2254	2256	2313	N13	E57	6244	09	4.2	19	SF		3	E		43			
0679	HOLL	30	2316	2318	2328	S10	W01	6233B	08	30.9	12	SF		3	E		14			
0680		31	0235E	02355	0245	N14	W28	6233	08	29.0	10D	SN					87	1.0		D
	YUNN	31	0235E	0235	0245	N14	W26	6233	08	29.1	10D	SN			P		94	1.1		
	URUM	31	0240E	0240	0245	N14	W29	6233	08	28.9	5D	SF			C		80	0.9		D
0681		31	02451	0247	0252	N12	E50	6244	09	3.9	7	SF					24	0.5		DG
	URUM	31	0245	0247	0255	N12	E46	6244	09	3.6	10	SF			C		32	0.5		DG
	LEAR	31	0246	0247	0249	N12	E54	6244	09	4.2	3	SF		3	E		17			
0682		31	03102	03123	0320	S09	W67	6228	08	26.1	10	SN					49			DEV
	PALE	31	0310	0312U	0328D	S12	W67	6228	08	26.1	18D	SF		3	E		65			
	LEAR	31	0311	0312	0317	S09	W68	6228	08	26.0	6	SF		3	E		56			
	YUNN	31	0311	0315	0323	S07	W66	6228	08	26.2	12	SN			C		31			
	TACH	31	0312	0313	0323	S07	W69	6228	08	26.0	11	1N		3	C	0313	76			EV
	URUM	31	0314E	0314	0318	S08	W64	6228	08	26.3	4D	SN			C		16			D
0683		31	03467	03531	0358	N13	E55	6244	09	4.3	12	1F					60			
	PALE	31	0346	0354	0356	N13	E55	6244	09	4.3	10	1F		3	E		109			
	LEAR	31	0353	0353	0359	N13	E55	6244	09	4.3	6	SF		3	E		11			

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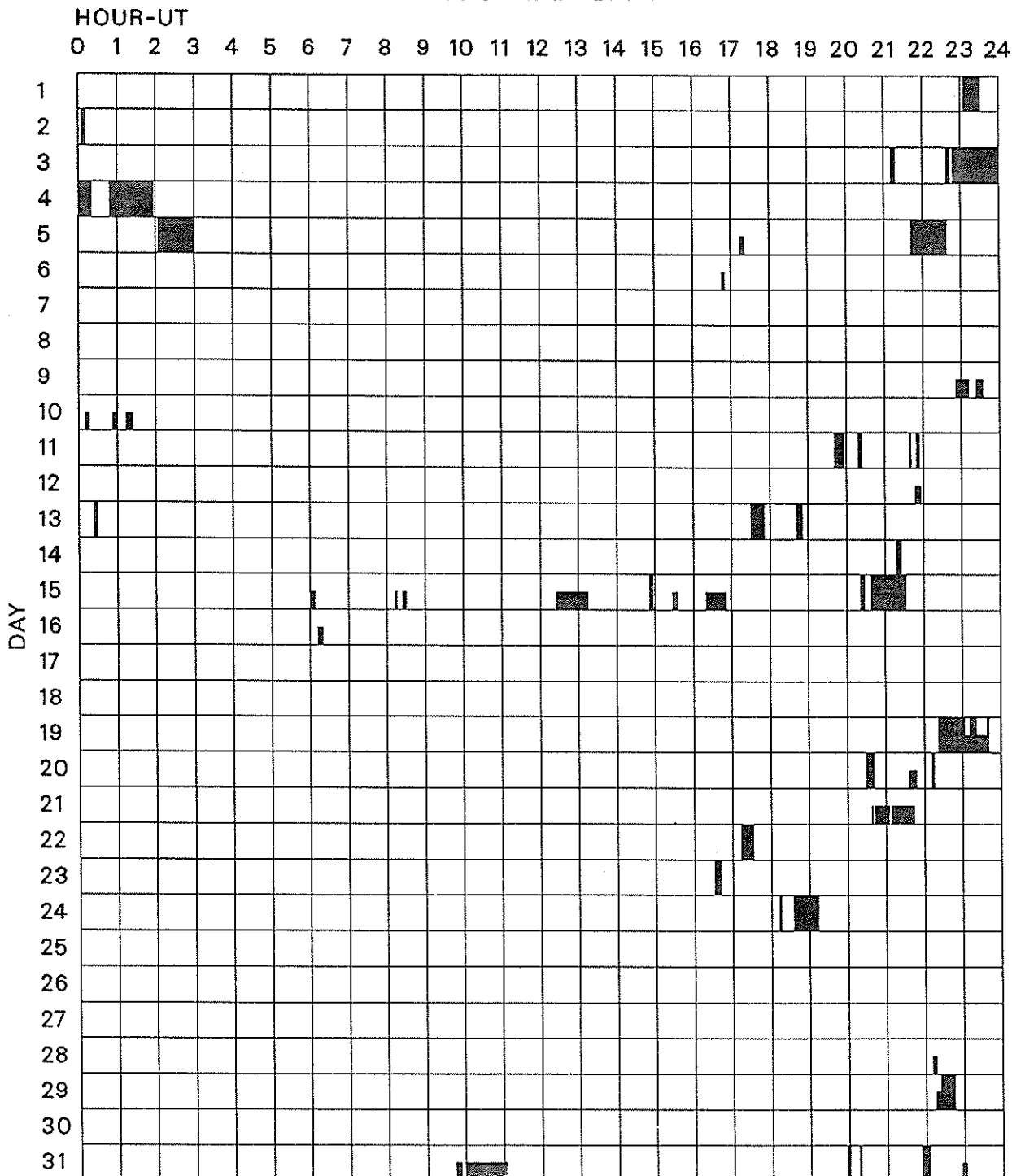
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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF Region			CMP Mo Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
						Lat	CMD	Region								Apparent (10-6 Disk)	Corr (Sq Deg)		
0684	31	0408	04151	0428	S24	W77	6227	08 25.2	20	1N	M 1.0					133		EF	
	LEAR	31	0408	0415	0425	S25	W80	6227	08 25.0	17	1F	M 1.0	3	E		135		F	
	TACH	31	0408	0416	0430	S25	W80	6227	08 25.0	22	1N		3	C	0416	143		E	
	PALE	31	0416E	0416U	0425	S25	W75	6227	08 25.4	9D	SF		3	E		82		F	
	YUNN	31	0416E	0416	0431	S22	W74	6227	08 25.5	15D	SB			P		173			
0685	31	05072	05112	0520	N14	W28	6233	08 29.1	13	1N	C 3.6					176	2.8	EH	
	MITK	31	0507	0511	0519	N14	W28	6233	08 29.1	12	SN			C	0511			E	
	TACH	31	0507	0511	0520	N14	W27	6233	08 29.2	13	1B		3	C	0511	235	2.7	E	
	LEAR	31	0509	0511	0517	N14	W28	6233	08 29.1	8	SF	C 3.6	3	E		56		H	
	YUNN	31	0512E	0513	0525	N14	W28	6233	08 29.1	13D	1B			P		236	2.8		
0686	LEAR	31	0639	0640	0643	N13	E53	6244	09 4.3	4	SF		3	E		22			
0687	YUNN	31	0758E	0758U	0818	N14	E50	6244	09 4.1	20D	SN			P	0758	63	1.0		
0688	31	1044	10451	1056	S19	E23	6242	09 2.2	12	SN	C 2.0					61	1.3	CEH	
	KAND	31	1044	1045	1055	S19	E23	6242	09 2.2	11	SB			P	1045	104	1.3	CE	
	SVTO	31	1044E	1046U	1056	S19	E22	6242	09 2.1	12D	SF	C 2.0	3	E		45			
	RAMY	31	1044	1046	1059D	S19	E24	6242	09 2.3	15D	SF	C 2.0	3	E		35		H	
0689	RAMY	31	1150	1151	1154	N14	W30	6233	08 29.2	4	SF		3	E		15			
0690	HOLL	31	1359E	1400U	1413	N14	E51	6244	09 4.4	14D	SF		3	E		38		H	
0691	HOLL	31	1438	1439	1457	S24	W78	6227	08 25.6	19	SF	C 1.7	3	E		23			
0692	31	1506	1507	1558	N13	W22	6233	08 30.0	52	SF	C 2.6					32		F	
	HOLL	31	1506	1507	1558	N13	W22	6233	08 30.0	52	SF	C 2.6	3	E		27		F	
	SVTO	31	1510E	1511U	1557	N13	W23	6233	08 29.9	47D	SF		3	E		36		F	
0693	HOLL	31	1515	1521	1553	N15	W16	6240	08 30.4	38	SF		3	E		24			
0694	31	15231	15251	1530	S24	W75	6227	08 25.8	7	SF						18			
	HOLL	31	1523	1525	1530	S24	W74	6227	08 25.9	7	SF		3	E		21			
	RAMY	31	1524	1526	1530	S23	W76	6227	08 25.8	6	SF		3	E		15			
0695	HOLL	31	1540	1546	1556	S11	E28	6238	09 2.7	16	SF		3	E		21			
0696	HOLL	31	1549	1551	1612	S20	W81	6226	08 25.5	23	SF		3	E		25			
0697	31	1613	16244	1705	N13	W22	6233	08 30.0	52	1B	C 5.7					104		FKU	
	HOLL	31	1613	1624	1711	N13	W21	6233	08 30.1	58	1B			E		116		K	
	HOLL	31	1613	1628	1711	N13	W21	6233	08 30.1	58	1B	C 5.7	3	E		151		UF	
	SVTO	31	1620E	1621U	1631D	N13	W24	6233	08 29.9	11D	SN		3	E		74		F	
	PALE	31	1637E		1653	N13	W22	6233	08 30.0	16D	SN		4	E		74		F	
0698	31	16176	16221	1649	N14	W16	6240	08 30.5	32	SF						20			
	RAMY	31	1617	1622	1659	N14	W16	6240	08 30.5	42	SF		3	E		29			
	HOLL	31	1623	1623	1639	N14	W17	6240	08 30.4	16	SF		3	E		12			
0699	PALE	31	1706	1708	1715	N13	W23	6233	08 30.0	9	SF		4	E		15		F	
0700	31	1759	1800	1812	S15	E38	6239A	09 3.6	13	SF	C 1.9					26		F	
	HOLL	31	1759	1800	1812	S15	E38	6239A	09 3.6	13	SF	C 1.9	3	E		35			
	PALE	31	1759	1800	1812D	S15	E39	6239A	09 3.7	13D	SF	C 1.9	4	E		16		F	
0701	HOLL	31	1814	1816	1824	S25	W77	6227	08 25.8	10	SF		3	E		34			
	31	1957		2001	No Flare Patrol														
	31	2016		2018	No Flare Patrol														
0702	HOLL	31	2120	2123U	2135	N13	W25	6233	08 30.0	15	SF		3	E		11			
	31	2153		2205	No Flare Patrol														
0703	HOLL	31	2320	2320	2326	N13	W26	6233	08 30.0	6	SF		3	E		13			

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

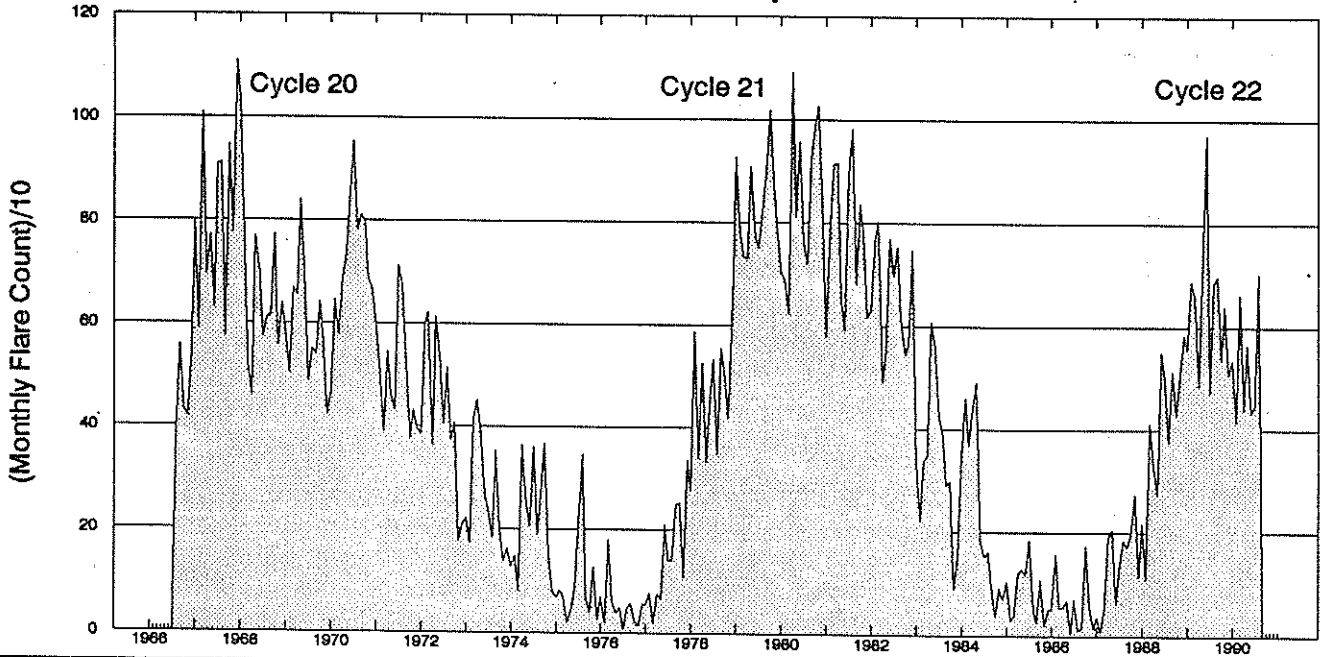
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Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual nor cinematographic); portions of a panel with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

- |                |           |             |            |            |
|----------------|-----------|-------------|------------|------------|
| Abastumani     | Holloman  | Kanzelhoehe | Palehua    | San Vito   |
| Athens         | Hurbanovo | Kharkov     | Peking     | Tashkent   |
| Bucharest      | Istanbul  | Learmonth   | Purple Mt. | Urumqi     |
| Haute Provence | Kandilli  | Mitaka      | Ramey      | 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	513	429	508	584	4803
1989	689	539	658	485	686	971	473	684	699	535	640	507	7566
1990	536	415	664	439	565	433	447	703	--	--	--	--	4202

\*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

AUGUST 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		
01	200	HIRA	43 NS	0036.0	0211.0	500.0	22.0	3.0	0	
	200	GORK	44 NS	0245.0E		555.00		5.0		
	260	ONDR	44 NS	0500.0E		700.00				
	204	IZMI	43 NS	0600.0		300.0	10.0			
	127	TORN	43 NS	0920.0	1130.7	170.0	50.0	13.0		V=0
	245	SGMR	44 NS	1018.0E	1045.0	45.00	77.0			QL=2 ST=2 TYP=1
	200	HIRA	42 SER	0508.6	0601.0	86.0	160.0			0
	234	POTS	4 S/F	0654.6	0655.3	1.3	100.0			
	204	IZMI	5 S	0715.6	0715.9	1.0	114.0	50.0		
	200	HIRA	41 F	0720.0	0727.0	16.5	130.0			0
	200	HIRA	41 F	0742.2	0743.0	28.4	110.0			0
	536	ONDR	42 SER	0858.0	0858.4	16.0	58.0			
	204	IZMI	25 R	0920.0		55.0	50.0			
	808	ONDR	41 F	1002.0	1008.3	37.0	9.0			
	204	IZMI	41 F	1148.2	1149.0	1.5	80.0			
	234	POTS	4 S/F	1148.2	1148.5	1.6	100.0			
	113	POTS	4 S/F	1148.4	1148.5	0.7	80.0			
	536	ONDR	41 F	1329.0	1524.1	132.0	24.0			
	2800	OTTA	22 GRF	1920.0	1958.0	190.0	25.3	12.0		
02	260	ONDR	44 NS	0500.0E		700.00				
	127	TORN	43 NS	0914.0		304.0		1.0		V=1
	610	LEAR	8 S	0212.0E	0212.0	1.00	50.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0212.0E	0212.0	1.00	85.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0212.0E	0212.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0525.0E	0525.0	1.00	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0525.0E	0525.0	U	170.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0525.0	0525.1	0.7	820.0			0
	9300	KISV	2 S/F	0525.0	0525.4	1.0	9.0			
	5900	KISV	2 S/F	0525.2	0525.5	1.3	6.0			
	2850	CRIM	24 R	0540.0	0626.6		17.0			
	9300	KISV	23 GRF	0545.0	0637.0	56.0	8.0			
	5900	KISV	23 GRF	0545.6	0555.2	50.4	5.0			
	9300	KISV	2 S/F	0547.5	0547.9	1.5	9.0			
	5900	KISV	1 S	0547.8	0547.9	0.9	5.0			
	9300	KISV	4 S/F	0616.4	0616.9	9.0	29.0			
	5900	KISV	4 S/F	0616.6	0617.3	6.3	21.0			
	15000	KISV	2 S/F	0616.8	0617.3	4.0	12.0			
	5900	KISV	22 GRF	0713.7	0718.6	16.3	8.0			
	5900	KISV	2 S/F	1035.7	1036.2	1.3	7.0			
9300	KISV	1 S	1036.0	1036.2	0.6	9.0				
5900	KISV	2 S/F	1106.5	1107.1	1.5	4.0				
9300	KISV	2 S/F	1106.6	1107.1	1.6	6.0				
536	ONDR	3 S	1308.0	1308.2	1.7	16.0				
03	260	ONDR	44 NS	0500.0E	1251.8	700.00	423.0			
	200	HIRA	42 SER	0056.3	0056.8	2.4	46.0			0
	9100	GORK	23 GRF	0445.5	0733.0	439.00	36.0			
	9300	KISV	23 GRF	0500.1	0504.5	14.1	11.0			
	9300	KISV	2 S/F	0500.9	0501.4	1.4	11.0			
	5900	KISV	2 S/F	0519.2	0520.0	2.0	8.0			
	9300	KISV	2 S/F	0519.3	0519.9	1.7	8.0			
	9100	GORK	1 S	0519.5	0519.9	0.9	8.0			
	9300	KISV	2 S/F	0605.1	0605.6	1.3	11.0			
	5900	KISV	2 S/F	0605.2	0605.7	1.1	7.0			
	9100	GORK	1 S	0605.4	0605.6	0.6	10.0			
	17000	NOBE	41 F	0605.6	0609.4	5.0	242.0			L,80,35GHz:0
	204	IZMI	5 S	0609.5	0609.6	0.7	18.0	9.0		
	9100	GORK	1 S	0628.0	0628.5	1.0	10.0			
	9300	KISV	45 C	0628.0	0628.5	2.0	7.0			
	9300	KISV	45 C	0628.0	0629.7		4.0			
	5900	KISV	2 S/F	0628.2	0628.7	1.4	4.0			
	2950	GORK	20 GRF	0727.5	0731.6	10.4	5.0			
	5900	KISV	45 C	0913.9	0915.3	3.4	10.0			
	5900	KISV	45 C	0913.9	0914.7		10.0			
	9300	KISV	2 S/F	0913.9	0914.8	3.6	6.0			
	2950	GORK	20 GRF	0943.0	0945.8	11.3	7.0			
	430	KRAK	8 S	0944.2	0944.8	0.5	28.0			
245	SGMR	8 S	1111.0E	1111.0	1.00	170.0			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 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
03	245	SVTO	8 S	1111.0E	1111.0	1.0D	160.0			QL=4 ST=2 TYP=3
	204	I2MI	4 S/F	1111.8	1112.0	0.8	340.0	100.0		
	245	SGMR	8 S	1251.0E	1251.0	U	380.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1251.0E	1251.0	U	410.0			QL=4 ST=2 TYP=3
	234	POTS	42 SER	1251.2	1251.3	19.3	550.0			
	113	POTS	42 SER	1251.3	1255.2	18.9	125.0			
	40	POTS	42 SER	1254.9	1304.5	9.8	2600.0			
	245	SGMR	8 S	1301.0E	1301.0	1.0D	330.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1301.0E	1301.0	1.0D	300.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1309.0E	1309.0	1.0D	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1309.0E	1309.0	1.0D	150.0			QL=4 ST=2 TYP=3
536	ONDR	41 F	1314.8	1315.0	30.0	24.0				
04	260	ONDR	44 NS	0500.0E	0859.5	700.0D	135.0			
	9100	GORK	23 GRF	0318.0U	0542.0	240.0D	13.0			
	9300	KISV	2 S/F	0541.2	0542.2	3.8	6.0			
	9100	GORK	1 S	0648.0	0648.3	0.6	10.0			
	9300	KISV	2 S/F	0648.0	0648.3	1.6	10.0			
	9500	POTS	1 S	0648.0	0648.4	1.0	10.0			
	5900	KISV	45 C	0702.9	0703.3	3.1	5.0			
	5900	KISV	45 C	0702.9	0703.9		4.0			
	9500	POTS	1 S	0703.0	0703.5	2.0	5.0			
	9300	KISV	2 S/F	0703.0	0703.7	3.0	4.0			
	1470	POTS	3 S	0703.7	0704.0	1.3	6.0			
	33	UPIC	42 SER	0726.8	0806.3	132.9				
	430	KRAK	2 S/F	0955.4	0955.8	1.3	27.0	10.0		
	33	UPIC	42 SER	1102.4	1414.8	192.9				
	536	ONDR	41 F	1222.0	1414.0	220.0	19.0			
	245	SGMR	8 S	1234.0E	1234.0	U	98.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1234.0E	1234.0	U	99.0			QL=4 ST=2 TYP=3
	127	TORN	41 F	1400.0	1406.0	16.0	70.0	3.0		
	3000	POTS	20 GRF	1405.0	1405.0	13.0	6.0			
	9500	POTS	20 GRF	1405.0	1414.2	15.0	6.0			
	1470	POTS	40 F	1405.0	1413.8	15.0	40.0			
1415	SGMR	8 S	1413.0E	1413.0	U	58.0			QL=4 ST=2 TYP=3	
1415	SVTO	8 S	1413.0E	1413.0	1.0D	68.0			QL=4 ST=2 TYP=3	
2800	OTTA	4 S/F	1413.0	1413.8	5.5	13.4	3.0			
245	PALE	49 GB	2131.0E	2132.0	3.0D	1000.0			QL=4 ST=2 TYP=6	
200	HIRA	46 C	2131.7	2131.8	2.4	690.0			O	
100	HIRA	41 F	2132.3	2133.0	2.1	1000.0D				
05	260	ONDR	44 NS	0500.0E	0833.9	700.0D	105.0			
	245	LEAR	8 S	0244.0E	0244.0	1.0D	220.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0244.0E	0244.0	2.0D	170.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0244.0	0244.2	0.8	380.0			O
	204	I2MI	42 SER	0735.5	0737.8	5.3	45.0			
	204	I2MI	41 F	0757.0	0801.8	8.3	330.0			
	234	POTS	41 F	0759.6	0801.7	3.5	150.0			
	950	GORK	1 S	0759.8	0802.0	2.8	2.0			
	5900	KISV	2 S/F	0801.1	0801.5	1.2	5.0			
	200	HIRA	46 C	0801.3	0801.7	1.1	200.0			O
	30	POTS	8 S	0802.4	0802.6	0.7	150.0U			
	430	KRAK	8 S	0941.0	0941.3	0.5	54.0			
	2800	OTTA	20 GRF	1347.0	1354.0	29.0	4.5	2.0		
	610	SGMR	8 S	1950.0E	1950.0	1.0D	180.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2022.0E	2022.0	U	58.0			QL=4 ST=2 TYP=3
245	SGMR	8 S	2146.0E	2147.0	1.0D	70.0			QL=4 ST=2 TYP=3	
06	260	ONDR	44 NS	0500.0E	1340.0	700.0D	142.0			
	536	ONDR	41 F	0722.0	1032.0	320.0	134.0			
	430	KRAK	42 SER	0734.5	0751.0	19.5	46.0			
	204	I2MI	5 S	0822.2	0822.4	1.0	155.0			
	245	LEAR	8 S	0835.0E	0836.0	2.0D	56.0			QL=4 ST=2 TYP=3
	204	I2MI	4 S/F	0835.0	0836.5	3.1	11.0	5.0		
	808	ONDR	3 S	0848.3	0849.7	3.1	6.0			
	9500	POTS	20 GRF	0900.0	0921.0	60.0	10.0			
	9100	GORK	20 GRF	0910.7	0921.0	100.3	10.0			
	430	KRAK	8 S	0941.3	0941.6	0.7	47.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
07	260	ONDR	44 NS	0500.0E	0559.0	273.0D	363.0			
	127	TORN	43 NS	1206.0		70.0		1.0	V=1	
	5900	KISV	2 S/F	0401.9	0402.8	2.6	9.0			
	5900	KISV	2 S/F	0419.6	0420.3	1.4	4.0			
	5900	KISV	2 S/F	0428.0	0428.9	1.1	4.0			
	200	HIRA	42 SER	0433.7	0443.7	19.8	43.0		0	
	33	UPIC	41 F	0748.9	0830.1	45.5				
	650	GORK	1 S	0753.7	0754.0	0.6	2.0			
	650	GORK	4 S/F	0836.9	0839.8	5.4	14.0			
	950	GORK	4 S/F	0837.3	0839.3	6.4	30.0			
	810	KRAK	7 C	0837.5	0839.5	6.5	17.0	9.0		
	9100	GORK	2 S/F	0837.6	0840.3	7.4	16.0			
	9300	KISV	2 S/F	0837.7	0840.2	7.3	15.0			
	2950	GORK	4 S/F	0837.7	0840.5	7.3	30.0			
	3013	IZMI	22 GRF	0837.7	0840.5	10.8	26.0	15.0		
	2850	CRIM	45 C	0837.8	0844.0		49.0			
	1470	POTS	4 S/F	0837.8	0840.0	19.0	50.0			
	2850	CRIM	45 C	0837.8	0840.5	10.0	51.0	17.0		
	808	ONDR	45 C	0837.8	0839.8	8.0	18.0			
	5900	KISV	4 S/F	0837.9	0840.2	8.9	21.0			
600	HUMN	27 RF	0838.0	0840.0	14.0	8.0	3.0			
9500	POTS	20 GRF	0838.0	0840.0	52.0	30.0				
650	GORK	29 PBI	0842.3	0842.3	18.8	4.0				
950	GORK	29 PBI	0843.7	0843.7	14.3	7.0				
2950	GORK	29 PBI	0845.0	0845.0	21.0	6.0				
260	ONDR	41 F	0933.0	1149.8	427.0	190.0				
1470	POTS	3 S	1326.0	1327.2	2.5	9.0				
08	200	HIRA	43 NS	0040.0	0341.0	218.0	25.0	3.0	WR	
	260	ONDR	44 NS	0524.0E		700.0D				
	200	HIRA	42 SER	0134.3	0134.7	19.1	82.0		0	
	5900	KISV	23 GRF	0432.5	0437.1	39.0	7.0			
	9100	GORK	2 S/F	0432.5	0433.3	2.5	10.0			
	5900	KISV	2 S/F	0432.5	0433.3	2.6	22.0			
	204	IZMI	5 S	0914.8	0914.9	0.5	55.0	26.0		
	2850	CRIM	1 S	1057.5	1058.0	0.7	6.0	2.0		
	9300	KISV	23 GRF	1333.0	1404.0	36.2D	20.0			
	5900	KISV	23 GRF	1333.8	1337.7	35.2D	12.0			
	9500	POTS	42 SER	1335.0	1349.4	35.0	28.0			
	3000	POTS	42 SER	1335.0	1349.5	30.0	13.0			
	9300	KISV	2 S/F	1347.5	1349.5	3.9	29.0			
	5900	KISV	4 S/F	1347.5	1349.5	3.9	32.0			
	1470	POTS	42 SER	1348.0	1355.5	12.0	4.0			
	2800	OTTA	4 S/F	1348.5	1349.8	9.3	10.2	2.0		
	2800	OTTA	20 GRF	1952.0	1958.0	37.0	6.3	3.0		
09	204	IZMI	43 NS	0745.0		255.0	10.0			
	127	TORN	43 NS	0854.0		366.0		2.0	V=1	
	200	HIRA	44 NS	1950.0E	2043.0	190.0D	6.0	3.0	0	
	260	ONDR	41 F	0500.0E	0936.1	700.0D	90.0			
	9500	POTS	29 PBI	0740.0	0743.3	60.0	13.0			
	9300	KISV	2 S/F	0741.9	0743.3	9.6	17.0			
	5900	KISV	2 S/F	0743.0	0743.3	9.8	9.0			
	810	KRAK	8 S	1055.8	1055.9	0.2	24.0			
	2800	OTTA	20 GRF	1840.0	1940.0	185.0	4.9	2.0		
	2800	OTTA	3 S	1906.3	1912.1	27.5	43.7	9.0		
	4995	PALE	8 S	1911.0E	1911.0	2.0D	58.0		QL=4 ST=2 TYP=3	
	2695	SGMR	4 S/F	1911.0E	1911.0	3.0D	49.0		QL=4 ST=2 TYP=3	
	4995	SGMR	4 S/F	1911.0E	1912.0	3.0D	51.0		QL=4 ST=2 TYP=3	
	245	PALE	8 S	2002.0E	2002.0	U	460.0		QL=4 ST=2 TYP=3	
	245	SGMR	8 S	2002.0E	2002.0	U	410.0		QL=4 ST=2 TYP=3	
	4995	SGMR	8 S	2028.0E	2028.0	1.0D	34.0		QL=4 ST=2 TYP=3	
	15400	SGMR	8 S	2028.0E	2028.0	1.0D	44.0		QL=2 ST=2 TYP=3	
	8800	SGMR	4 S/F	2028.0E	2029.0	4.0D	77.0		QL=2 ST=2 TYP=3	
	245	PALE	8 S	2035.0E	2035.0	1.0D	63.0		QL=4 ST=2 TYP=3	
245	SGMR	8 S	2035.0E	2035.0	1.0D	54.0		QL=4 ST=2 TYP=3		
245	PALE	8 S	2109.0E	2109.0	U	56.0		QL=4 ST=2 TYP=3		
10	260	ONDR	44 NS	0500.0E	0817.1	450.0D	120.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
10	200	GORK	44 NS	0912.0E		168.0D		5.0		
	204	IZMI	43 NS	1025.0		155.0	25.0			
	204	IZMI	41 F	0611.0	0613.1	3.0	22.0			
	536	ONDR	41 F	0658.0	0817.7	350.0	26.0			
	204	IZMI	41 F	0716.2	0718.5	5.0	80.0			
	245	SVTO	8 S	0812.0E	0812.0	U	170.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0812.0E	0812.0	U	190.0			QL=2 ST=2 TYP=3
	9300	KISV	2 S/F	0829.0	0830.3	8.3	7.0			
	5900	KISV	20 GRF	0829.8	0830.7	13.2	5.0			
	204	IZMI	4 S/F	0847.7	0848.0	1.5	22.0	10.0		
	8800	SVTO	8 S	0852.0E	0852.0	1.0D	120.0			QL=2 ST=2 TYP=3
	33	UPIC	8 S	0938.2	0938.3	0.4				
	5900	KISV	2 S/F	1138.2	1138.8	4.4	5.0			
	9300	KISV	2 S/F	1138.3	1138.7	5.2	5.0			
	245	SGMR	8 S	1150.0E	1151.0	1.0D	53.0			QL=4 ST=2 TYP=3
	260	ONDR	41 F	1330.0	1550.6	190.0	31.0			
	2800	OTTA	47 GB	1806.5	1820.9	42.5	1861.0	372.0		
	600	HUMN	45 C	1808.0	1811.0	27.0	54.0	29.0		
	245	SGMR	49 GB	1808.0E	1818.0	20.0D	520.0			QL=4 ST=3 TYP=7
	1415	PALE	49 GB	1808.0E	1827.0	33.0D	520.0			QL=4 ST=2 TYP=7
	2695	PALE	49 GB	1808.0E	1820.0	37.0D	1400.0			QL=4 ST=2 TYP=7
	1415	SGMR	49 GB	1808.0E	1827.0	39.0D	500.0			QL=4 ST=3 TYP=7
	4995	SGMR	49 GB	1808.0E	1820.0	39.0D	3700.0			QL=4 ST=3 TYP=7
	2695	SGMR	49 GB	1808.0E	1825.0	39.0D	1500.0			QL=4 ST=3 TYP=7
	4995	PALE	49 GB	1808.0E	1820.0	41.0D	3800.0			QL=4 ST=2 TYP=7
	410	SGMR	49 GB	1809.0E	1814.0	19.0D	1800.0			QL=4 ST=3 TYP=7
	8800	PALE	49 GB	1809.0E	1817.0	38.0D	5200.0			QL=4 ST=2 TYP=7
	8800	SGMR	49 GB	1809.0E	1817.0	38.0D	4400.0			QL=4 ST=3 TYP=7
	410	PALE	49 GB	1810.0E	1814.0	11.0D	1400.0			QL=4 ST=2 TYP=7
	245	PALE	49 GB	1810.0E	1818.0	18.0D	540.0			QL=4 ST=2 TYP=7
	15400	PALE	49 GB	1810.0E	1817.0	33.0D	3400.0			QL=4 ST=2 TYP=7
	15400	SGMR	49 GB	1810.0E	1817.0	37.0D	3600.0			QL=2 ST=3 TYP=7
	610	SGMR	49 GB	1810.0E	1815.0	37.0D	170.0			QL=4 ST=3 TYP=7
	610	PALE	49 GB	1811.0E	1817.0	23.0D	150.0			QL=4 ST=2 TYP=7
410	PALE	4 S/F	1837.0E	1854.0	50.0D	430.0			QL=4 ST=2 TYP=3	
245	PALE	20 GRF	1842.0E	1857.0	36.0D	160.0			QL=4 ST=2 TYP=2	
410	SGMR	49 GB	1843.0E	1852.0	43.0D	510.0			QL=4 ST=2 TYP=6	
410	SGMR	49 GB	1847.0E	1852.0	313.0D	510.0			QL=4 ST=3 TYP=6	
245	SGMR	4 S/F	1847.0E	1852.0	313.0D	160.0			QL=4 ST=3 TYP=3	
2800	OTTA	29 PBI	1849.0	1849.0	180.0	32.8	16.0			
245	SGMR	4 S/F	1850.0E	1852.0	33.0D	160.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1935.0E	1936.0	1.0D	53.0			QL=4 ST=2 TYP=3	
2695	PENT	3 S	2222.0	2222.6	2.5	25.8	5.0			
2695	PENT	20 GRF	2250.0	2319.5	52.0	9.5	4.0			
11	200	HIRA	43 NS	0100.0	0723.0	440.0	16.0	4.0		WR
	200	GORK	44 NS	0255.0E		396.0D		5.0		
	204	IZMI	43 NS	0600.0		135.0	15.0			
	127	TORN	43 NS	0656.0	1033.7	484.0	130.0	4.0		V=1
	200	HIRA	42 SER	0125.4	0211.2	63.0	215.0			WR
	2840	PEKG	3 S	0155.0	0159.0	12.0	26.1			
	245	LEAR	8 S	0158.0E	0158.0	U	82.0			QL=4 ST=2 TYP=3
	260	ONDR	41 F	0600.0E	0739.2	640.0D	300.0			
	245	LEAR	8 S	0601.0E	0601.0	1.0D	53.0			QL=4 ST=2 TYP=3
	650	GORK	22 GRF	0603.0	0616.5	26.2	6.0			
	204	IZMI	41 F	0648.4	0648.6	1.0	105.0	90.0		
	3013	IZMI	5 S	0741.5	0743.1	2.0	5.0	3.0		
	2950	GORK	1 S	0742.0	0842.8	61.1	7.0			
	2850	CRIM	1 S	0742.5	0743.2	1.2	10.0	3.0		
	2950	GORK	29 PBI	0843.1	0843.1	28.9	2.0			
204	IZMI	4 S/F	0912.0	0912.8	1.0	11.0				
5900	KISV	45 C	1059.0	1059.2	2.0	10.0				
5900	KISV	45 C	1059.0	1059.5		8.0				
536	ONDR	41 F	1123.0	1215.3	83.0	15.0				
12	200	HIRA	43 NS	2150.0	0000.0	610.0	13.0	5.0		WR
	5900	KISV	22 GRF	0538.1	0542.4	14.3	5.0			
	260	ONDR	41 F	0600.0E	0935.4	640.0D	78.0			
	536	ONDR	41 F	1150.0	1207.9	53.0	21.0			

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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	245	PALE	8 S	1905.0E	1906.0	1.0D	52.0			QL=4 ST=2 TYP=3	
	245	PALE	8 S	2143.0E	2143.0	U	65.0			QL=4 ST=2 TYP=3	
	245	LEAR	8 S	2332.0E	2332.0	U	51.0			QL=2 ST=2 TYP=3	
13	200	GORK	44 NS	0242.0E		429.0D		5.0			
	204	IZMI	43 NS	0600.0		360.0	10.0				
	234	POTS	43 NS	1317.7	1329.5	43.0D	360.0				
	127	TORN	43 NS	1322.0		98.0		13.0		V=0	
	200	HIRA	44 NS	1952.0E	2100.0	160.0D	18.0	4.0		WL	
	2840	PEKG	5 S	0031.0	0035.3	6.0	19.1				
	100	HIRA	46 C	0256.8	0258.0	2.2	260.0				O
	200	HIRA	46 C	0256.8	0257.6	2.0	250.0				QL=2 ST=2 TYP=3
	245	LEAR	8 S	0316.0E	0316.0	1.0D	85.0				QL=4 ST=2 TYP=3
	245	PALE	8 S	0316.0E	0316.0	1.0D	62.0				
	9100	GORK	22 GRF	0351.0	0426.2	249.0	16.0				
	650	GORK	22 GRF	0400.5	0402.8	28.5	4.0				
	950	GORK	2 S/F	0400.6	0402.8	6.1	7.0				
	2950	GORK	21 GRF	0415.0	0429.7	29.0	5.0				
	5900	KISV	22 GRF	0424.0	0426.2	12.0	16.0				
	2840	PEKG	5 S	0424.0	0426.3	15.0	13.9				
	2950	GORK	1 S	0425.1	0426.1	3.1	9.0				
	9300	KISV	2 S/F	0425.6	0426.3	7.4	10.0				
	2850	CRIM	1 S	0433.6	0436.4	4.0	13.0		4.0		
	260	ONDR	41 F	0520.0E	1330.3	680.0D					
	100	HIRA	46 C	0633.0	0634.3	2.6	1000.0D				
	100	GORK	46 C	0633.4	0634.3	3.1	2800.0				
	100	GORK	46 C	0633.4	0634.7	3.1	980.0				
	113	POTS	4 S/F	0633.6	0634.1	2.9	500.0				
	204	IZMI	4 S/F	0634.2	0635.0	1.0	13.0				
	200	GORK	4 S/F	0634.3	0635.0	1.5	30.0D				
	30	POTS	4 S/F	0634.3	0635.0U	2.1	4000.0D				
	650	GORK	1 S	0652.1	0655.8	4.9	2.0				
	950	GORK	20 GRF	0652.1	0654.8	12.1	5.0				
	204	IZMI	5 S	0837.0	0837.4	0.8	34.0		20.0		
	2950	GORK	21 GRF	0858.1	0925.8	123.6	10.0				
	9300	KISV	47 GB	0920.1	0923.1U	5.5	348.0D				
	9300	KISV	29 PBI	0920.1	0925.6	35.3	26.0				
	3000	POTS	4 S/F	0920.5	0923.0	35.0	93.0				
	5900	KISV	47 GB	0920.5	0923.1	6.7	800.0D				
	5900	KISV	29 PBI	0920.5	0927.2	46.1	22.0				
	9100	GORK	4 S/F	0921.0	0923.0	3.0	200.0				
	9500	POTS	4 S/F	0921.0	0923.0	3.0	150.0				
	2950	GORK	4 S/F	0921.6	0923.2	3.7	78.0				
	3013	IZMI	5 S	0921.8	0923.0	5.0	89.0		45.0		
	15000	KISV	4 S/F	0921.8	0923.1	9.2	60.0				
	15400	SVTO	8 S	0922.0E	0923.0	2.0D	100.0				QL=4 ST=2 TYP=3
8800	SVTO	8 S	0922.0E	0923.0	2.0D	180.0				QL=4 ST=2 TYP=3	
1470	POTS	4 S/F	0922.0	0923.0	33.0	45.0					
9100	GORK	29 PBI	0924.0	0924.0	96.0	22.0					
2850	CRIM	29 PBI	0931.0	0934.0	5.0	9.0					
2850	CRIM	3 S	0932.1	0932.6	3.0	109.0		36.0			
204	IZMI	42 SER	1049.0	1049.2	4.5	23.0					
204	IZMI	41 F	1141.3	1142.0	3.0	23.0					
5900	KISV	2 S/F	1232.1	1232.6	1.4	5.0					
9500	POTS	20 GRF	1305.0	1340.9	100.0	32.0					
2800	OTTA	4 S/F	1309.5	1325.8	25.0	61.2		18.0			
1470	POTS	45 C	1310.0	1325.5	60.0	75.0					
3000	POTS	4 S/F	1310.0	1325.8	95.0	56.0					
610	SGMR	20 GRF	1311.0E	1322.0	15.0D	78.0				QL=4 ST=2 TYP=2	
536	ONDR	46 C	1314.0	1325.5	28.0	59.0					
808	ONDR	46 C	1314.0	1325.9	23.0	11.0					
410	SGMR	4 S/F	1319.0E	1325.0	7.0D	87.0				QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1319.0E	1325.0	7.0D	68.0				QL=4 ST=2 TYP=5	
4995	SGMR	8 S	1320.0E	1321.0	1.0D	23.0				QL=4 ST=2 TYP=3	
2695	SGMR	8 S	1320.0E	1321.0	1.0D	25.0				QL=4 ST=2 TYP=3	
1415	SVTO	4 S/F	1320.0E	1325.0	14.0D	69.0				QL=4 ST=2 TYP=5	
245	SGMR	8 S	1321.0E	1321.0	U	26.0				QL=4 ST=2 TYP=3	
15400	SGMR	8 S	1322.0E	1322.0	1.0D	54.0				QL=4 ST=2 TYP=3	
245	SVTO	4 S/F	1326.0E	1330.0	7.0D	340.0				QL=4 ST=2 TYP=3	

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Aug 90

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
13	127	TORN	27 RF	1328.0		6.0		30.0		
	245	SGMR	4 S/F	1328.0E	1329.0	4.0D	420.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1329.0E	1331.0	3.0D	100.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1329.0E	1331.0	5.0D	72.0			QL=4 ST=2 TYP=3
	2800	OTTA	29 PBI	1334.5	1334.5	145.0	19.5	9.0		
	245	PALE	8 S	2142.0E	2142.0	1.0D	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2142.0E	2142.0	1.0D	75.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	2224.7	2226.0	3.5	13.8	3.0		
	8800	SGMR	8 S	2225.0E	2225.0	1.0D	63.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	2225.0E	2225.0	1.0D	79.0			QL=4 ST=2 TYP=3
245	PALE	8 S	2256.0E	2256.0	1.0D	56.0			QL=4 ST=2 TYP=3	
14	200	HIRA	43 NS	2350.0	0015.0	198.0	4.0	3.0		WL
	200	HIRA	41 F	0234.3	0235.0	3.0	93.0			ML
	260	ONDR	42 SER	0520.0	1232.0	680.0D				
	33	UPIC	41 F	0747.7	0813.5	57.5				
	204	IZMI	42 SER	0823.0	0914.0	65.0	75.0			
	245	LEAR	8 S	0844.0E	0844.0	U	74.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0844.0E	0844.0	U	76.0			QL=4 ST=2 TYP=3
	1470	POTS	40 F	0905.0	0908.1	5.0	3.0			
	3013	IZMI	5 S	0905.5	0907.0	5.0	14.0	7.0		
	2850	CRIM	1 S	0906.0	0907.0	4.0	16.0	4.0		
	9500	POTS	29 PBI	0906.0	0907.0	64.0	11.0			
	2950	GORK	1 S	0906.0	0907.1	2.0	13.0			
	9100	GORK	2 S/F	0906.0	0906.9	2.1	18.0			
	9300	KISV	2 S/F	0906.3	0907.0	9.7	18.0			
	3000	POTS	3 S	0906.3	0907.3	37.0	16.0			
	410	SVTO	8 S	0908.0E	0908.0	1.0D	88.0			QL=4 ST=2 TYP=3
	2950	GORK	29 PBI	0908.0	0908.0	34.4	8.0			
	9100	GORK	29 PBI	0908.1	0908.1	174.9D	10.0			
	113	POTS	4 S/F	0908.2	0908.7	1.8	420.0			
	30	POTS	4 S/F	0908.6	0909.0	1.9	4000.0D			
	33	UPIC	45 C	0908.6	0908.9	1.1				
	536	ONDR	42 SER	1053.5	1057.0	108.0	138.0			
	204	IZMI	5 S	1103.2	1103.4	0.4	33.0	20.0		
	100	GORK	4 S/F	1117.2	1117.5	0.6	120.0			
	200	GORK	4 S/F	1117.2	1117.5	0.5	190.0			
	204	IZMI	8 S	1117.3	1117.5	0.2	700.0	600.0		
	245	SGMR	49 GB	1229.0E	1230.0	1.0D	610.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1229.0E	1230.0	1.0D	600.0			QL=4 ST=2 TYP=6
	234	POTS	4 S/F	1229.2	1229.3	1.2	1150.0			
	113	POTS	4 S/F	1229.9	1230.0	0.5	85.0			
30	POTS	4 S/F	1229.9	1230.0	0.6	400.0U				
1470	POTS	8 S	1431.5	1431.7	1.0	24.0				
2800	OTTA	20 GRF	1634.5	1700.0	59.0	3.5	1.0			
1415	PALE	8 S	1709.0E	1710.0	1.0D	56.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	1709.0E	1710.0	1.0D	55.0			QL=4 ST=3 TYP=3	
2800	OTTA	20 GRF	1943.0	1947.5	37.0	6.7	3.0			
245	PALE	8 S	2038.0E	2039.0	1.0D	55.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2038.0E	2039.0	1.0D	56.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2205.0E	2205.0	U	170.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	2205.0E	2205.0	U	190.0			QL=4 ST=2 TYP=3	
200	HIRA	8 S	2205.1	2205.7	0.9	95.0			O	
15	127	TORN	43 NS	1027.0		273.0		1.0		V=0
	100	GORK	43 NS	1033.0		87.0D		5.0		
	200	HIRA	44 NS	1955.0E	0000.0	305.0D	9.0	3.0		O
	410	PALE	49 GB	0249.0E	0250.0	1.0D	930.0			QL=4 ST=2 TYP=6
	410	LEAR	49 GB	0250.0E	0250.0	U	1100.0			QL=4 ST=2 TYP=6
	260	ONDR	41 F	0520.0	1111.2	680.0D	119.0			
	9300	KISV	2 S/F	0601.3	0601.8	6.5	14.0			
	204	IZMI	5 S	0721.0	0721.2	0.8	23.0	12.0		
	245	SGMR	8 S	1110.0E	1111.0	1.0D	360.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1110.0E	1111.0	1.0D	350.0			QL=4 ST=2 TYP=3
	234	POTS	4 S/F	1110.7E	1111.1	0.8D	350.0			
	113	POTS	8 S	1110.8	1111.1	0.9	550.0			
	204	IZMI	5 S	1111.0	1111.2	0.8	330.0	170.0		
810	KRAK	8 S	1133.6	1133.7	0.2	38.0				
410	SGMR	8 S	1155.0E	1156.0	1.0D	220.0			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 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)	Int	Remarks
15	536	ONDR	8 S	1307.5	1307.8	0.7	78.0			
	536	ONDR	41 F	1419.0	1424.3	10.0	57.0			
	536	ONDR	41 F	1515.8	1553.7	55.0	52.0			
	2800	OTTA	20 GRF	1540.5	1554.0	24.0	14.8	4.0		
	610	SVTO	4 S/F	1551.0E	1553.0	4.00	250.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1552.0E	1553.0	3.00	330.0			QL=4 ST=2 TYP=3
	808	ONDR	41 F	1552.0	1553.1	10.5	9.0			
	600	HUMN	4 S/F	1555.0U	1557.0U	4.50	120.0	45.0		
	2800	OTTA	20 GRF	1937.0	1943.0	17.0	9.1	2.0		
	245	PALE	4 S/F	2147.0E	2148.0	133.00	270.0			QL=4 ST=1 TYP=3
610	PALE	4 S/F	2147.0E	2148.0	133.00	110.0			QL=4 ST=1 TYP=3	
16	260	ONDR	44 NS	0520.0E	0729.5	680.00	137.0			
	200	GORK	43 NS	0524.0		396.00		5.0		
	200	HIRA	43 NS	0525.0	0700.0	240.00	15.0	4.0		WR
	234	POTS	44 NS	0546.0E	1052.0	554.00	50.0			
	245	SVTO	44 NS	0555.0E	0614.0	689.00	96.0			QL=4 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	50.0			
	245	LEAR	44 NS	0601.0E	0725.0	179.00	140.0			QL=2 ST=2 TYP=1
	127	TORN	43 NS	0703.0		417.0		1.0		V=0
	245	PALE	44 NS	1652.0E	1655.0	428.00	82.0			QL=4 ST=3 TYP=1
	245	SGMR	44 NS	1709.0E	1711.0	43.00	110.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	1955.0E	0826.0	810.00	17.0	6.0		MR
	245	SGMR	44 NS	1956.0E	1857.0	179.00	110.0			QL=4 ST=2 TYP=1
	245	LEAR	4 S/F	0401.0E	0405.0	4.00	65.0			QL=2 ST=2 TYP=3
	500	HIRA	41 F	0402.0	0404.7	6.0	157.0			0
	245	LEAR	4 S/F	0549.0E	0549.0	3.00	52.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0555.0E	0557.0	2.00	74.0			QL=2 ST=2 TYP=3
	2950	GORK	2 S/F	0723.0	0725.0	4.0	7.0			
	3000	POTS	4 S/F	0723.0	0725.0	4.5	11.0			
	9500	POTS	20 GRF	0723.0	0725.5	22.0	4.0			
	3013	IZMI	7 C	0723.2	0725.1	6.0	7.0	3.0		
	650	GORK	3 S	0723.3	0723.6	2.0	9.0			
	950	GORK	1 S	0723.3	0723.7	2.2	2.0			
	1470	POTS	4 S/F	0726.5	0726.7	1.2	2.0			
	100	GORK	41 F	0854.1	0914.8		50.0			
	100	GORK	41 F	0854.1	0854.9	20.7	500.0			
	113	POTS	4 S/F	0854.5	0855.0	1.1	175.0			
	30	POTS	4 S/F	0854.6	0855.0	1.0	1200.0U			
	245	LEAR	8 S	0940.0E	0940.0	1.00	58.0			QL=2 ST=2 TYP=3
245	SGMR	8 S	1052.0E	1053.0	1.00	58.0			QL=4 ST=2 TYP=3	
2950	GORK	1 S	1106.7	1108.3	3.7	7.0				
536	ONDR	42 SER	1107.0	1108.1	113.0	98.0				
650	GORK	4 S/F	1107.5	1107.8	3.8	11.0				
410	SGMR	8 S	1137.0E	1137.0	U	110.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1145.0E	1145.0	1.00	90.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1145.0E	1145.0	U	95.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1607.0E	1607.0	U	64.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1654.0E	1654.0	1.00	220.0			QL=4 ST=2 TYP=3	
17	100	GORK	44 NS	0232.0E		220.00		5.0		
	260	ONDR	44 NS	0520.0E	0908.7	620.00	160.0			
	204	IZMI	43 NS	0600.0		360.0	60.0			
	127	TORN	44 NS	0620.0E		520.00		14.0		V=2
	113	POTS	43 NS	0620.0	0800.5	480.0	25.0			
	33	UPIC	43 NS	0656.5		663.50				
	234	POTS	43 NS	0725.0	0911.0	352.0	100.0			
	245	LEAR	44 NS	0733.0E	0859.0	138.00	280.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	0733.0E	0827.0	322.00	200.0			QL=4 ST=3 TYP=1
	245	SGMR	44 NS	1049.0E	1118.0U	220.00	180.0			QL=2 ST=2 TYP=1
	200	HIRA	44 NS	1955.0E	0020.0	810.00	55.0	18.0		MR
	200	HIRA	8 S	0004.0	0004.0	0.3	125.0			MR
	245	LEAR	4 S/F	0256.0E	0256.0	1264.00	80.0			QL=2 ST=2 TYP=3
	200	HIRA	46 C	0335.0	0335.0	1.1	74.0			0
	245	LEAR	8 S	0335.0E	0335.0	U	120.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0335.0E	0335.0	U	130.0			QL=4 ST=2 TYP=3
	200	HIRA	8 S	0403.5	0404.2	0.8	76.0			0
	500	HIRA	8 S	0404.0	0404.4	0.7	37.0			WR
245	LEAR	8 S	0422.0E	0422.0	1.00	160.0			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 <sup>2</sup> Hz)	Mean		
17	245	LEAR	8 S	0701.0E	0701.0	2.0D	67.0			QL=2 ST=2 TYP=3
	2950	GORK	20 GRF	0721.0	1031.4	279.0D	7.0			
	245	SVTO	8 S	0859.0E	0859.0	U	270.0			QL=2 ST=2 TYP=3
	204	IZMI	5 S	1000.0	1000.4	1.8	550.0	270.0		
	245	SGMR	8 S	1032.0E	1032.0	U	61.0			QL=2 ST=2 TYP=3
	536	ONDR	41 F	1040.0	1431.5	250.0	38.0			
	245	SVTO	8 S	1429.0E	1429.0	U	76.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1455.0E	1455.0	U	69.0			QL=2 ST=2 TYP=3
	2800	OTTA	4 S/F	1650.4	1651.7	3.1	8.4	2.0		
	500	HIRA	42 SER	2031.5	2038.0	60.0	43.0			WR
	2800	OTTA	4 S/F	2139.5	2140.8	4.5	34.0	7.0		
	610	PALE	8 S	2140.0E	2140.0	U	97.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2140.0E	2140.0	U	120.0			QL=4 ST=2 TYP=3
	500	HIRA	41 F	2140.0	2140.2	2.0	184.0			0
	2695	PENT	3 S	2336.4	2337.1	4.5	11.8	3.0		
	500	HIRA	27 RF	2339.0	2412.0	65.0	14.0	4.0		WR
	245	PALE	4 S/F	2351.0E	2415.0	34.0D	210.0			QL=4 ST=2 TYP=5
18	245	PALE	44 NS	0000.0E	0353.0	284.0D	130.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0027.0	0035.0	88.0D	150.0			QL=2 ST=3 TYP=1
	200	GORK	44 NS	0242.0E		393.0D		5.0		
	100	GORK	44 NS	0242.0E		402.0D		5.0		
	204	IZMI	43 NS	0600.0		360.0	10.0			
	127	TORN	44 NS	0620.0E		520.0D		3.0		V=0, DISTURBED
	245	LEAR	8 S	0004.0E	0006.0	2.0D	150.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0015.0E	0015.0	2.0D	230.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0015.0E	0015.0	U	12.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0020.0E	0020.0	5.0D	170.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0028.0E	0028.0	1.0D	100.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0040.0E	0040.0	2.0D	280.0			QL=2 ST=2 TYP=3
	200	HIRA	8 S	0352.1	0352.8	0.9	630.0			0
	950	GORK	4 S/F	0512.7	0513.0	0.6	26.0			
	260	ONDR	41 F	0630.0	1333.0	610.0D	150.0			
	9100	GORK	1 S	0630.0	0632.6	5.2	10.0			
	500	HIRA	41 F	0711.3	0712.3	1.0	19.0			0
	33	UPIC	42 SER	0751.5	1132.2	221.2				
	9100	GORK	21 GRF	0911.1	0937.6	33.9D	12.0			
	204	IZMI	4 S/F	0912.5	0913.0	1.0	54.0			
	2950	GORK	21 GRF	0916.7	0936.0	27.3D	15.0			
	3013	IZMI	22 GRF	0918.5	0931.0	27.0	25.0	13.0		
	9100	GORK	2 S/F	0927.0	0931.0	9.0	55.0			
	9300	KISV	23 GRF	0927.8	0934.3	20.8	9.0			
	9300	KISV	4 S/F	0928.7	0931.0	5.6	46.0			
	9500	POTS	4 S/F	0928.7	0931.0	26.3	48.0			
	3000	POTS	3 S	0928.8	0931.0	21.2	29.0			
	15000	KISV	2 S/F	0929.0	0931.0	8.8	34.0			
	8800	SVTO	4 S/F	0929.0E	0931.0	3.0D	52.0			QL=4 ST=2 TYP=3
	2850	CRIM	3 S	0929.0	0931.2	13.0	37.0	13.0		
	1470	POTS	3 S	0929.0	0931.3	21.0	13.0			
	950	GORK	20 GRF	0929.1	0931.1	7.2	10.0			
	2950	GORK	3 S	0929.2	0931.3	6.5	24.0			
650	GORK	20 GRF	0929.4	0930.6	8.5	6.0				
204	IZMI	41 F	0930.0	0930.8	2.5	45.0				
536	ONDR	41 F	0952.0	1043.7	56.0	102.0				
808	ONDR	3 S	0957.4	0957.9	1.5	8.0				
245	SGMR	8 S	1130.0E	1130.0	U	79.0			QL=2 ST=2 TYP=3	
245	SGMR	8 S	1205.0E	1205.0	U	70.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1323.0E	1323.0	U	84.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1714.0E	1715.0	1.0D	80.0			QL=4 ST=2 TYP=3	
245	SGMR	8 S	1714.0E	1715.0	1.0D	140.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1804.0E	1805.0	1.0D	68.0			QL=4 ST=3 TYP=3	
245	SGMR	8 S	1805.0E	1805.0	U	140.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1813.0E	1813.0	U	54.0			QL=4 ST=3 TYP=3	
2800	OTTA	3 S	1849.5	1850.1	3.4	4.7	1.0			
2800	OTTA	3 S	1937.1	1939.3	6.3	5.7	1.0			
410	PALE	8 S	1939.0E	1939.0	U	110.0			QL=4 ST=2 TYP=3	
19	204	IZMI	43 NS	0600.0		360.0	15.0			
	127	TORN	44 NS	0620.0E		520.0D		4.0		V=1, DISTURBED



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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		
19	410 SVTO	44 NS	1101.0E	1133.0	119.0D	110.0			QL=2 ST=2 TYP=1
	245 SVTO	44 NS	1102.0E	1138.0	184.0D	120.0			QL=2 ST=2 TYP=1
	200 HIRA	44 NS	2000.0E	0321.0	800.0D	84.0	27.0		WR
	245 PALE	44 NS	2054.0E	2059.0	109.0D	280.0			QL=4 ST=2 TYP=1
	245 SGMR	44 NS	2054.0E	2059.0	186.0D	260.0			QL=4 ST=3 TYP=1
	410 SGMR	44 NS	2104.0E	2104.0	176.0D	51.0			QL=2 ST=3 TYP=1
	245 LEAR	8 S	0304.0E	0305.0	1.0D	390.0			QL=2 ST=2 TYP=3
	410 LEAR	8 S	0304.0E	0305.0	2.0D	37.0			QL=2 ST=2 TYP=3
	410 PALE	8 S	0304.0E	0305.0	1.0D	50.0			QL=4 ST=2 TYP=3
	245 PALE	8 S	0304.0E	0305.0	1.0D	380.0			QL=4 ST=2 TYP=3
	200 HIRA	8 S	0304.6	0304.8	0.9	357.0			0
	410 LEAR	4 S/F	0346.0E	0348.0	6.0D	180.0			QL=2 ST=2 TYP=3
	245 LEAR	49 GB	0346.0E	0348.0	2.0D	3100.0			QL=2 ST=2 TYP=6
	610 LEAR	8 S	0347.0E	0348.0	1.0D	91.0			QL=2 ST=2 TYP=3
	1415 LEAR	8 S	0348.0E	0348.0	U	26.0			QL=2 ST=2 TYP=3
	610 PALE	8 S	0348.0E	0348.0	U	55.0			QL=4 ST=2 TYP=3
	410 PALE	8 S	0348.0E	0348.0	U	160.0			QL=4 ST=3 TYP=3
	245 PALE	49 GB	0348.0E	0348.0	1.0D	3000.0			QL=4 ST=3 TYP=6
	2950 GORK	20 GRF	0435.0	0919.2	295.0D	13.0			
	260 ONDR	41 F	0530.0E	0711.4	670.0D	22.0			
	245 LEAR	4 S/F	0708.0E	0710.0	3.0D	140.0			QL=2 ST=2 TYP=3
	410 LEAR	8 S	0708.0E	0708.0	1.0D	54.0			QL=2 ST=2 TYP=3
	410 SVTO	8 S	0708.0E	0708.0	1.0D	78.0			QL=4 ST=2 TYP=3
	245 SVTO	4 S/F	0708.0E	0710.0	3.0D	170.0			QL=4 ST=2 TYP=3
	204 IZMI	42 SER	0708.8	0711.0	36.2	100.0			
	234 POTS	4 S/F	0710.0	0710.7	1.5	250.0			
	30 POTS	4 S/F	0739.5	0741.8	5.7	4000.0D			
	113 POTS	4 S/F	0740.0	0741.5	2.7	200.0			
	245 LEAR	8 S	0817.0E	0817.0	1.0D	97.0			QL=2 ST=2 TYP=3
	245 SVTO	8 S	0817.0E	0817.0	1.0D	110.0			QL=4 ST=2 TYP=3
	234 POTS	4 S/F	0817.6	0817.7	0.7	750.0			
	9300 KISV	22 GRF	0826.8	0827.2	11.2	11.0			
	3013 IZMI	20 GRF	0838.0	0841.0	21.0	7.0	5.0		
	30 POTS	4 S/F	1019.5	1020.1	1.0	400.0U			
	113 POTS	4 S/F	1019.8	1020.0	0.8	650.0			
	30 POTS	4 S/F	1133.0U	1135.0U	11.0U	4000.0U			
	113 POTS	41 F	1133.0	1136.7	10.2	1100.0			
	234 POTS	4 S/F	1136.5	1138.0	3.4	100.0			
	536 ONDR	41 F	1136.6	1137.3	5.0	78.0			
	808 ONDR	41 F	1137.0	1138.5	5.0	19.0			
	410 SGMR	8 S	1138.0E	1138.0	U	72.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1138.0E	1138.0	U	100.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1208.0E	1208.0	1.0D	180.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	1208.0E	1208.0	1.0D	200.0			QL=2 ST=2 TYP=3
	9500 POTS	42 SER	1353.0	1358.0	7.0	12.0			
3000 POTS	42 SER	1354.0	1358.0	6.0	14.0				
1470 POTS	42 SER	1354.0	1358.0	7.0	8.0				
536 ONDR	46 C	1354.2	1358.0	5.5	181.0				
2800 OTTA	4 S/F	1354.2	1358.2	5.5D	14.0	3.0			
610 SGMR	8 S	1358.0E	1358.0	U	62.0			QL=4 ST=3 TYP=3	
40 POTS	41 F	1418.5	1422.0	5.1	1300.0				
113 POTS	41 F	1418.5	1419.8	5.0	140.0				
234 POTS	4 S/F	1421.3	1421.7	2.0	125.0				
2800 OTTA	20 GRF	1608.0	1717.0	165.0	15.1	6.0			
245 SGMR	8 S	1900.0E	1900.0	U	63.0			QL=4 ST=2 TYP=3	
2800 OTTA	22 GRF	1917.0	1926.0	20.0	17.3	5.0			
245 PALE	8 S	2042.0E	2042.0	U	80.0			QL=4 ST=2 TYP=3	
245 SGMR	8 S	2042.0E	2042.0	U	84.0			QL=4 ST=2 TYP=3	
200 HIRA	41 F	2055.3	2056.1	4.6	232.0			0	
410 SGMR	8 S	2104.0E	2104.0	U	51.0			QL=2 ST=2 TYP=3	
100 HIRA	41 F	2154.1	2158.2U	5.9	1000.0D				
200 HIRA	42 SER	2158.7	2201.5	2.8	270.0			0	
245 PALE	49 GB	2201.0E	2201.0	U	1100.0			QL=4 ST=2 TYP=6	
410 PALE	8 S	2201.0E	2201.0	U	120.0			QL=4 ST=2 TYP=3	
610 PALE	8 S	2201.0E	2201.0	U	240.0			QL=4 ST=2 TYP=3	
245 SGMR	49 GB	2201.0E	2201.0	1.0D	1000.0			QL=4 ST=3 TYP=6	
610 SGMR	8 S	2201.0E	2201.0	U	280.0			QL=4 ST=3 TYP=3	
410 SGMR	8 S	2201.0E	2201.0	U	130.0			QL=4 ST=3 TYP=3	
2800 OTTA	3 S	2201.1	2201.4	2.2	16.2	3.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
19	410	SGMR	8 S	2205.0E	2205.0	U	130.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2244.0E	2244.0	U	87.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2320.0E	2320.0	U	68.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	2328.0E	2328.0	U	51.0			QL=2 ST=2 TYP=3
20	245	PALE	44 NS	0037.0E	0103.0	245.0D	200.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	0037.0E	0105.0	555.0D	510.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	0424.0E	1240.0	775.0D	390.0			QL=2 ST=2 TYP=1
	260	ONDR	44 NS	0530.0E		670.0D				
	204	IZMI	43 NS	0600.0		360.0	20.0			
	200	GORK	44 NS	0602.0E		360.0D		5.0		
	127	TORN	44 NS	0620.0E		520.0D		25.0		V=2
	100	GORK	43 NS	0634.0		328.0D		5.0		
	234	POTS	43 NS	0800.0	0904.0	435.0D	70.0			
	410	SVTO	44 NS	1052.0E	1052.0	82.0D	100.0			
	245	SGMR	44 NS	1213.0E	1240.0	663.0D	410.0			QL=4 ST=2 TYP=1
	410	SVTO	44 NS	1340.0E	1522.0	107.0D	99.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1644.0E	0101.0	718.0D	250.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	2000.0E	0300.0	800.0D	35.0	10.0		0
	100	HIRA	44 NS	2000.0E	0517.0	800.0D	90.0	14.0		
	245	LEAR	44 NS	2341.0E	0420.0	406.0D	310.0			QL=2 ST=2 TYP=1
	245	LEAR	4 S/F	0023.0E	0026.0	3.0D	72.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0031.0E	0034.0	3.0D	78.0			QL=2 ST=2 TYP=5
	245	PALE	49 GB	0104.0E	0105.0	1.0D	540.0			QL=2 ST=3 TYP=6
	9100	GORK	22 GRF	0309.0U	1119.9	531.0D	40.0			
	245	SVTO	8 S	0528.0E	0528.0	1.0D	300.0			QL=4 ST=2 TYP=3
	2950	GORK	23 GRF	0537.9	1120.0	382.1D	19.0			
	2840	PEKG	3 S	0605.0	0606.1	2.0	28.6			
	113	POTS	4 S/F	0654.7	0658.8	5.3	150.0			
	100	HIRA	42 SER	0655.4	0657.9	10.0	770.0			
	100	GORK	41 F	0656.0	0749.0		1460.0			
	100	GORK	41 F	0656.0	0658.8	55.5	660.0			
	200	HIRA	42 SER	0656.1	0705.1	9.9	496.0			0
	200	GORK	41 F	0656.2	0705.3	45.8	420.0			
	200	GORK	41 F	0656.2	0740.5		210.0			
	30	POTS	4 S/F	0656.5	0658.7	3.0U	1000.0U			
	234	POTS	4 S/F	0656.7	0658.9	2.7U	300.0			
	204	IZMI	42 SER	0657.0	0705.0	10.0	450.0			
	650	GORK	21 GRF	0706.0	0914.5	230.4	6.0			
	536	ONDR	45 C	0737.5	0740.8	3.5	163.0			
	200	HIRA	46 C	0738.6	0739.6	2.0	270.0			WL
	100	HIRA	42 SER	0738.7	0748.7	14.5	860.0			
	234	POTS	42 SER	0738.9	0740.2	11.1	650.0			
	410	LEAR	8 S	0739.0E	0741.0	2.0D	320.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0739.0E	0740.0	2.0D	210.0			QL=2 ST=2 TYP=3
245	SVTO	8 S	0739.0E	0740.0	2.0D	230.0			QL=2 ST=2 TYP=3	
113	POTS	42 SER	0739.1	0748.7	11.0	250.0				
204	IZMI	4 S/F	0739.5	0741.0	2.0	320.0				
650	GORK	2 S/F	0739.5	0741.2	2.5	5.0				
2950	GORK	2 S/F	0739.6	0740.9	2.1	7.0				
500	HIRA	46 C	0739.8	0740.5	1.8	1040.0			SL	
2850	CRIM	1 S	0740.0	0741.0	2.0	5.0	2.0			
410	SVTO	8 S	0740.0E	0741.0	1.0D	300.0			QL=4 ST=2 TYP=3	
950	GORK	1 S	0740.2	0741.2	4.2	2.0				
30	POTS	8 S	0749.0	0749.4	1.0	900.0U				
9300	KISV	2 S/F	0828.6	0829.7	2.7	6.0				
204	IZMI	25 R	0846.0		194.0	150.0				
950	GORK	21 GRF	0918.9	0933.2	111.2	3.0				
536	ONDR	41 F	0930.0	1133.0	230.0	172.0				
245	LEAR	8 S	0935.0E	0936.0	1.0D	100.0			QL=2 ST=2 TYP=3	
410	LEAR	8 S	0935.0E	0936.0	1.0D	42.0			QL=2 ST=2 TYP=3	
234	POTS	42 SER	0940.5	0956.4	18.3	450.0				
40	POTS	42 SER	0940.5	0956.6	19.5	33000.0				
200	GORK	41 F	0940.9	0957.1		40.0				
200	GORK	41 F	0940.9	0944.1	16.6	85.0				
100	GORK	41 F	0941.0	0942.2	16.0	530.0				
113	POTS	42 SER	0941.0	0956.4	17.6	2500.0				
100	GORK	41 F	0941.0	0956.6		9690.0				
2850	CRIM	1 S	0955.1	0956.1	2.0	7.0	2.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m <sup>2</sup> Hz)			
20	650	GORK	4 S/F	0955.2	0956.5	2.9	15.0			
	2950	GORK	2 S/F	0955.3	0956.4	2.3	7.0			
	810	KRAK	1 S	0955.3	0956.5	2.5	6.0	3.0		
	950	GORK	2 S/F	0955.5	0956.3	2.1	6.0			
	600	HUMN	2 S/F	0955.5	0956.5	2.5	16.0	7.0		
	245	SVTO	8 S	0956.0E	0956.0	1.00	140.0			QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	0959.0E	0959.0	0.00	140.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	1040.3	1040.9	1.7	17.0			
	2850	CRIM	29 PBI	1040.5	1041.5	4.0	9.0			
	3013	IZMI	5 S	1040.5	1040.8	4.5	16.0	8.0		
	3013	IZMI	5 S	1040.5	1040.8	4.5	16.0	8.0		
	2850	CRIM	1 S	1040.5	1040.9	1.0	25.0	7.0		
	100	GORK	41 F	1049.9	1105.0	43.9	330.0			
	100	GORK	41 F	1049.9	1132.3		2520.0			
	100	GORK	41 F	1049.9	1132.9		1925.0			
	410	SGMR	4 S/F	1051.0E	1052.0	5.00	66.0			QL=4 ST=2 TYP=3
	200	GORK	41 F	1051.5	1107.1	46.0	210.0			
	200	GORK	41 F	1051.5	1132.3		625.0			
	245	SGMR	8 S	1052.0E	1052.0	2.00	53.0			QL=4 ST=2 TYP=3
	3000	POTS	20 GRF	1110.0	1120.0	35.0	11.0			
	9500	POTS	20 GRF	1110.0	1120.0	50.0	18.0			
	9300	KISV	22 GRF	1116.5	1120.1	45.5	19.0			
	650	GORK	46 C	1128.1	1133.2		10.0			
	650	GORK	46 C	1128.1	1132.4	7.0	8.0			
	950	GORK	2 S/F	1130.0	1133.4	4.7	2.0			
	245	SGMR	8 S	1131.0E	1132.0	2.00	350.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1131.0E	1132.0	2.00	350.0			QL=2 ST=2 TYP=3
	234	POTS	4 S/F	1131.2	1132.2	3.3	1300.0			
	113	POTS	4 S/F	1131.5	1132.2	3.2	1300.0			
	30	POTS	4 S/F	1131.6	1133.0	3.6	4000.00			
	410	SGMR	49 GB	1132.0E	1132.0	2.00	1100.0			QL=4 ST=2 TYP=6
	610	SGMR	8 S	1132.0E	1133.0	1.00	41.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	1132.0E	1132.0	1.00	810.0			QL=4 ST=2 TYP=6
	204	IZMI	45 C	1132.0	1132.3	2.0	950.0			
	245	SVTO	8 S	1213.0E	1213.0	U	220.0			QL=2 ST=2 TYP=3
	234	POTS	4 S/F	1239.5	1240.5	2.50	800.0			
	245	SVTO	8 S	1240.0E	1240.0	1.00	420.0			QL=4 ST=2 TYP=3
	113	POTS	4 S/F	1240.3	1240.3	1.2	900.0			
	30	POTS	4 S/F	1240.5	1240.5	1.9	4000.00			
	410	SGMR	8 S	1241.0E	1241.0	U	86.0			QL=4 ST=2 TYP=3
40	POTS	4 S/F	1311.7	1314.0	3.8	6700.0				
113	POTS	4 S/F	1312.6	1313.8	2.6	350.0				
234	POTS	4 S/F	1355.8	1356.2	0.7	900.0				
245	SVTO	8 S	1356.0E	1356.0	U	410.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	1440.0E	1440.0	U	170.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	1555.0E	1555.0	1.00	420.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	1609.0E	1609.0	1.00	150.0			QL=2 ST=2 TYP=3	
245	SGMR	49 GB	1642.0E	1643.0	2.00	530.0			QL=4 ST=2 TYP=6	
245	SVTO	49 GB	1642.0E	1643.0	2.00	520.0			QL=2 ST=2 TYP=6	
245	PALE	8 S	1643.0E	1643.0	1.00	270.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	1718.0E	1718.0	1.00	200.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	1812.0E	1812.0	U	250.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2130.0E	2130.0	1.00	300.0			QL=4 ST=2 TYP=3	
200	HIRA	46 C	2130.2	2130.4	1.1	255.0			0	
200	HIRA	8 S	2226.7	2227.4	0.9	43.0			0	
21	100	GORK	44 NS	0249.0E		552.00		5.0		
	200	GORK	44 NS	0249.0E		552.00		5.0		
	600	HUMN	44 NS	0500.0E	1606.0	780.00	6.0			
	33	UPIC	43 NS	0504.0		776.00				
	245	SVTO	44 NS	0524.0E	0524.0	63.00	78.0			QL=2 ST=2 TYP=1
	260	ONDR	44 NS	0540.0E		660.00				
	204	IZMI	43 NS	0600.0		360.0	10.0			
	127	TORN	44 NS	0620.0E	0753.9	520.00	320.0	3.0		V=1
	245	SGMR	44 NS	1048.0E	1048.0	792.00	120.0			QL=4 ST=3 TYP=1
	245	SVTO	44 NS	1052.0E	1053.0	788.00	200.0			QL=4 ST=2 TYP=1
	245	SVTO	44 NS	1152.0E	1052.00	325.00	200.0			QL=4 ST=2 TYP=1
	410	SGMR	44 NS	1722.0E	2106.0	352.00	410.0			QL=4 ST=2 TYP=1
	245	SGMR	44 NS	1900.0E	2213.0	254.00	630.0			QL=2 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		
21	245	PALE	44 NS	1945.0E	0320.0	536.00	300.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	2000.0E	0617.0	800.00	42.0	16.0		ML
	100	HIRA	44 NS	2000.0E	2149.0	800.00	215.0	38.0		
	410	PALE	44 NS	2006.0E	0343.0	515.00	300.0			QL=4 ST=2 TYP=1
	610	PALE	44 NS	2020.0E	0343.0	501.00	120.0			QL=4 ST=2 TYP=1
	610	SGMR	44 NS	2051.0E	2152.0	61.00	110.0			QL=4 ST=2 TYP=1
	245	LEAR	44 NS	2300.0E	0134.0	653.00	360.0			QL=2 ST=2 TYP=1
	410	LEAR	44 NS	2330.0E	0146.0	300.00	240.0			QL=2 ST=2 TYP=1
	500	HIRA	42 SER	0108.4	0112.5	5.5	29.0			0
	100	HIRA	41 F	0108.6	0112.8	5.2	1000.00			
	245	PALE	8 S	0231.0E	0231.0	1.00	230.0			QL=2 ST=2 TYP=3
	950	GORK	23 GRF	0306.0E	0421.6	390.00	14.0			
	650	GORK	23 GRF	0306.0E	0420.6	534.00	13.0			
	245	LEAR	8 S	0325.0E	0325.0	1.00	450.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0325.0E	0325.0	U	93.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0325.0E	0325.0	1.00	490.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0325.0E	0325.0	U	76.0			QL=4 ST=2 TYP=3
	650	GORK	2 S/F	0325.3	0325.6	1.8	14.0			
	950	GORK	2 S/F	0325.3	0325.6	1.8	6.0			
	2950	GORK	23 GRF	0403.7	0515.3	476.30	43.0			
	500	HIRA	46 C	0404.8	0408.5	22.5	18.0			0
	950	GORK	46 C	0407.5	0412.1		6.0			
	950	GORK	46 C	0407.5	0408.4	5.3	8.0			
	650	GORK	46 C	0407.5	0411.8		6.0			
	650	GORK	46 C	0407.5	0408.9	4.8	9.0			
	950	GORK	4 S/F	0413.5	0424.6	12.3	23.0			
	200	GORK	41 F	0414.1	0415.3	6.9	385.0			
	200	GORK	41 F	0414.1	0420.5		1350.0			
	100	GORK	41 F	0414.7	0415.3	12.3	4480.0			
	100	GORK	41 F	0414.7	0420.6		5630.0			
	200	HIRA	41 F	0414.8	0420.5	10.6	1500.0			0
	100	HIRA	41 F	0415.2	0420.5	11.6	1000.0			
	950	GORK	2 S/F	0416.9	0417.5	2.7	5.0			
	650	GORK	4 S/F	0416.9	0418.9	3.3	16.0			
	9100	GORK	23 GRF	0421.0U	0519.9	459.00	22.0			
	650	GORK	4 S/F	0423.4	0424.4	2.4	34.0			
	2850	CRIM	20 GRF	0506.5	0520.0	18.0	34.0	11.0		
	9300	KISV	22 GRF	0507.2	0519.9	58.8	21.0			
	650	GORK	4 S/F	0511.5	0511.8	0.7	22.0			
	650	GORK	46 C	0513.8	0514.0	2.1	14.0			
	650	GORK	46 C	0513.8	0515.0		14.0			
	950	GORK	4 S/F	0513.8	0514.0	2.0	58.0			
	2950	GORK	2 S/F	0519.0	0519.9	2.6	19.0			
	950	GORK	1 S	0519.1	0520.1	2.1	3.0			
	650	GORK	4 S/F	0519.1	0520.3	1.9	14.0			
100	HIRA	46 C	0547.5		2.0	1000.00				
245	LEAR	8 S	0548.0E	0549.0	1.00	210.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	0548.0E	0548.0	2.00	220.0			QL=4 ST=2 TYP=3	
100	GORK	46 C	0548.0	0549.3		920.0				
100	GORK	46 C	0548.0	0548.8	2.0	1380.0				
200	GORK	46 C	0548.2	0549.1	1.8	220.0				
200	HIRA	46 C	0548.2	0548.2	1.3	345.0			0	
113	POTS	4 S/F	0548.2	0549.2	1.8	550.0				
200	GORK	46 C	0548.2	0549.7		90.0				
30	POTS	4 S/F	0548.6	0549.0	1.4	1000.00				
234	POTS	4 S/F	0548.6	0548.8	1.4	330.0				
9300	KISV	2 S/F	0628.0	0631.0	6.0	12.0				
536	ONDR	41 F	0630.0	0929.2	570.0	105.0				
245	LEAR	49 GB	0716.0E	0716.0	1.00	640.0			QL=2 ST=2 TYP=6	
245	SVTO	49 GB	0716.0E	0716.0	2.00	670.0			QL=4 ST=3 TYP=6	
234	POTS	4 S/F	0716.6	0718.1	2.0	800.0				
200	HIRA	46 C	0716.6	0717.8	1.7	510.0			0	
113	POTS	41 F	0716.7	0717.1	2.5	500.0				
200	GORK	41 F	0716.7	0718.1	38.3	1730.0				
200	GORK	41 F	0716.7	0753.7		170.0				
30	POTS	41 F	0716.7	0716.8	1.9	240.00				
204	IZMI	45 C	0717.0	0718.2	2.5	1700.0				
204	IZMI	4 S/F	0721.0	0721.7	1.7	350.0				
204	IZMI	8 S	0743.6	0743.7	0.2	165.0	80.0			

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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)	Mean	Int	Remarks
21	650	GORK	4 S/F	0751.9	0753.6	3.1	39.0			
	100	HIRA	46 C	0752.3	0753.1	2.1	1000.0			
	200	HIRA	46 C	0752.3	0752.8	1.8	187.0			WL
	500	HIRA	46 C	0752.5	0753.4	3.0	84.0			ML
	113	POTS	4 S/F	0752.9	0753.9	2.9	1000.0			
	30	POTS	4 S/F	0752.9	0753.9	2.0	1000.00U			
	410	LEAR	8 S	0753.0E	0753.0		16.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0753.0E	0753.0	1.00	40.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0753.0E	0754.0	1.00	33.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0753.0E	0753.0	4.00	380.0			QL=2 ST=2 TYP=3
	1470	POTS	4 S/F	0753.0	0754.0	2.0	30.0			
	245	SVTO	8 S	0753.0E	0753.0	1.00	380.0			QL=4 ST=2 TYP=3
	100	GORK	46 C	0753.0	0753.6	1.6	1320.0			
	234	POTS	4 S/F	0753.0	0753.6	2.3	300.0			
	100	GORK	46 C	0753.0	0753.7		1150.0			
	100	GORK	46 C	0753.0	0753.9		1035.0			
	950	GORK	4 S/F	0753.0	0753.9	1.6	15.0			
	808	ONDR	2 S/F	0753.1	0753.8	4.0	12.0			
	245	LEAR	8 S	0833.0E	0833.0		60.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0833.0E	0833.0		75.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0922.0	0952.3	31.5	100.0			
	9300	KISV	4 S/F	0926.0	0930.7	10.0	155.0			
	650	GORK	46 C	0927.7	0930.6		108.0			
	650	GORK	46 C	0927.7	0928.9	5.1	106.0			
	610	LEAR	4 S/F	0928.0E	0928.0	3.00	230.0			QL=2 ST=2 TYP=3
	2695	SVTO	8 S	0928.0E	0930.0	2.00	320.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0928.0E	0930.0	3.00	120.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0928.0E	0928.0	2.00	170.0			QL=4 ST=2 TYP=3
	808	ONDR	7 C	0928.5	0930.4	6.0	9.0			
	950	GORK	46 C	0928.5	0930.6		19.0			
	950	GORK	46 C	0928.5	0928.9	3.7	13.0			
	2695	LEAR	8 S	0929.0E	0930.0	2.00	260.0			QL=2 ST=2 TYP=3
	2840	PEKG	45 C	0929.0	0930.3	4.0	321.4			
	3013	IZMI	45 C	0929.0	0930.6	6.0	222.0	100.0		
	15000	KISV	23 GRF	0929.0	0933.6	10.9	25.0			
	3000	POTS	4 S/F	0929.5	0930.1	3.5	228.0			
	1470	POTS	3 S	0929.5	0930.7	3.5	92.0			
	2950	GORK	4 S/F	0929.6	0930.3	3.6	78.0			
	9100	GORK	2 S/F	0929.6	0930.7	2.4	95.0			
	2850	CRIM	4 S/F	0929.9	0930.3	2.0	373.0	100.0		
	1415	LEAR	8 S	0930.0E	0930.0	1.00	89.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0930.0E	0930.0	6.00	500.0			QL=2 ST=2 TYP=3
	15400	LEAR	8 S	0930.0E	0930.0		34.0			QL=2 ST=2 TYP=3
	4995	LEAR	8 S	0930.0E	0930.0	1.00	150.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0930.0E	0930.0	1.00	68.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0930.0E	0930.0	1.00	500.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0930.0E	0930.0		150.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0930.0E	0930.0		82.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0930.0E	0930.0		210.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0930.0E	0933.0	3.00	330.0			QL=4 ST=2 TYP=3
15000	KISV	4 S/F	0930.0	0930.7	1.9	66.0				
9500	POTS	3 S	0930.0	0930.8	5.0	74.0				
234	POTS	4 S/F	0930.2	0930.7	1.2	350.0				
2695	SGMR	4 S/F	1026.0E	1027.0	5.00	61.0			QL=2 ST=2 TYP=3	
810	KRAK	1 S	1030.5	1031.5	2.0	6.0	3.0			
100	GORK	46 C	1042.0	1045.1	4.1	2070.0				
100	GORK	46 C	1042.0	1045.2		1490.0				
200	GORK	46 C	1042.3	1044.3	7.1	190.0				
200	GORK	46 C	1042.3	1048.8		385.0				
204	IZMI	42 SER	1042.5	1044.0	4.5	80.0				
245	SVTO	8 S	1043.0E	1043.0	1.00	67.0			QL=4 ST=2 TYP=3	
600	HUMN	3 S	1043.0	1044.5	8.0	32.0	8.0			
113	POTS	42 SER	1043.5	1045.2	5.6	385.0				
40	POTS	4 S/F	1043.5	1045.2	6.0	75000.0				
234	POTS	42 SER	1043.5	1044.2	5.6	250.0				
950	GORK	4 S/F	1044.5	1045.2	3.7	33.0				
650	GORK	46 C	1044.6	1045.0	4.5	51.0				
650	GORK	46 C	1044.6	1047.3		56.0				
808	ONDR	41 F	1045.0	1045.4	4.0	36.0				

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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		
21	204	IZMI	8 S	1048.5	1048.8	0.8	800.0			
	650	GORK	4 S/F	1118.4	1118.9	0.9	11.0			
	200	GORK	41 F	1151.0	1152.4	6.2	30.00			
	200	GORK	41 F	1151.0	1154.7		865.0			
	234	POTS	41 F	1151.5	1154.6	3.7	650.0			
	245	SGMR	49 GB	1154.0E	1154.0	1.00	570.0			QL=2 ST=3 TYP=6
	245	SVTO	49 GB	1154.0E	1154.0	1.00	560.0			QL=2 ST=2 TYP=6
	100	GORK	3 S	1154.4	1154.6	0.6	35.00			
	204	IZMI	45 C	1154.5	1154.8	0.7	1000.0			
	810	KRAK	1 S	1200.5	1200.7	0.5	3.0	2.0		
	808	ONDR	8 S	1200.6	1200.9	0.7	19.0			
	245	SVTO	8 S	1501.0E	1501.0	U	380.0			QL=4 ST=2 TYP=3
	2800	OTTA	3 S	1602.8	1603.7	6.5	90.3	18.0		
	15400	SGMR	8 S	1603.0E	1603.0	1.00	190.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1603.0E	1603.0	1.00	110.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1603.0E	1603.0	1.00	73.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1603.0E	1603.0	2.00	63.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1603.0E	1605.0	2.00	1000.0			QL=2 ST=2 TYP=6
	2695	SGMR	8 S	1603.0E	1603.0	1.00	83.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1603.0E	1603.0	1.00	87.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1603.0E	1603.0	2.00	84.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1603.0E	1603.0	2.00	68.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1603.0E	1605.0	2.00	860.0			QL=2 ST=2 TYP=6
	15400	SVTO	8 S	1603.0E	1603.0	1.00	180.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1603.0E	1603.0	1.00	120.0			QL=4 ST=2 TYP=3
	2800	OTTA	31 ABS	1609.3	1620.0	31.0	-6.5	3.0		
	2800	OTTA	20 GRF	1700.0	1903.0	320.0	38.7	19.0		
	410	SGMR	8 S	1708.0E	1708.0	1.00	59.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1709.0E	1709.0	1.00	140.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1744.0E	1744.0	U	1600.0			QL=4 ST=3 TYP=6
	245	PALE	49 GB	1800.0E	1800.0	1.00	3600.0			QL=4 ST=3 TYP=6
	410	PALE	8 S	1800.0E	1800.0	U	75.0			QL=4 ST=3 TYP=3
	245	PALE	49 GB	1824.0E	1824.0	U	690.0			QL=4 ST=2 TYP=6
	245	PALE	49 GB	1830.0E	1830.0	1.00	1200.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	1834.0E	1834.0	1.00	62.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1850.0E	1850.0	U	130.0			QL=4 ST=2 TYP=3
	4995	SGMR	20 GRF	1901.0E	1915.0	22.00	59.0			QL=4 ST=2 TYP=2
	1415	PALE	20 GRF	1907.0E	1911.0	14.00	140.0			QL=4 ST=2 TYP=2
	1415	SGMR	20 GRF	1908.0E	1911.0	15.00	150.0			QL=4 ST=2 TYP=2
	2695	PALE	8 S	1911.0E	1912.0	1.00	33.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1919.0E	1919.0	U	500.0			QL=4 ST=3 TYP=6
	245	SGMR	49 GB	1919.0E	1919.0	U	530.0			QL=4 ST=2 TYP=6
	4995	SGMR	20 GRF	1923.0E	1934.0	277.00	59.0			QL=4 ST=3 TYP=2
1415	PALE	8 S	1931.0E	1932.0	1.00	56.0			QL=4 ST=2 TYP=3	
410	PALE	20 GRF	1954.0E	1957.0	5.00	180.0			QL=4 ST=2 TYP=2	
610	PALE	8 S	1957.0E	1957.0	1.00	37.0			QL=4 ST=2 TYP=3	
500	HIRA	24 R	2000.0E	2129.0	480.00	58.0	23.0		ML	
410	PALE	8 S	2019.0E	2020.0	1.00	120.0			QL=2 ST=2 TYP=3	
245	PALE	49 GB	2020.0E	2020.0	U	500.0			QL=2 ST=2 TYP=6	
500	HIRA	42 SER	2146.0	2152.5	8.0	230.0			SL	
245	PALE	49 GB	2213.0E	2213.0	1.00	680.0			QL=2 ST=2 TYP=6	
610	LEAR	8 S	2316.0E	2316.0	U	380.0			QL=2 ST=2 TYP=3	
22	200	GORK	44 NS	0302.0E		538.00		5.0		
	100	GORK	44 NS	0302.0E		538.00		5.0		
	245	SVTO	44 NS	0445.0E	1318.00	751.00	450.0			QL=2 ST=2 TYP=1
	33	UPIC	43 NS	0519.0		761.00				
	260	ONDR	44 NS	0530.0E		670.00				
	113	POTS	44 NS	0540.0E	1153.0	560.00	70.0			
	234	POTS	44 NS	0550.0E	1121.5	550.00	150.0			
	204	IZMI	43 NS	0600.0		360.0	25.0			
	127	TORN	44 NS	0620.0E		520.00		50.0		V=1
	410	SVTO	44 NS	0805.0E	1120.00	551.00	300.0			QL=2 ST=2 TYP=1
	245	SGMR	44 NS	1037.0E	1038.0	803.00	120.0			QL=4 ST=3 TYP=1
	600	HUMN	43 NS	1043.0	1612.0	420.00	36.0			
	410	SGMR	44 NS	1107.0E	1931.0	580.00	280.0			QL=2 ST=2 TYP=1
	610	SGMR	44 NS	1542.0E	1601.0	305.00	150.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1644.0E	2348.0	716.00	400.0			QL=4 ST=2 TYP=1
610	PALE	44 NS	1718.0E	1739.0	43.00	88.0			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 <sup>2</sup> Hz)	Mean		
22	245	SGMR	44 NS	1932.0E	2047.0	221.00	450.0			QL=2 ST=2 TYP=1
	100	HIRA	44 NS	2000.0E		800.00				
	200	HIRA	44 NS	2000.0E		800.00				
	245	LEAR	44 NS	2334.0E	2348.0	619.00	330.0			QL=2 ST=2 TYP=1
	410	LEAR	8 S	0028.0E	0030.0	2.00	230.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0040.0E	0041.0	2.00	180.0			QL=2 ST=2 TYP=3
	500	HIRA	8 S	0041.3	0041.5	0.6	530.0			SL
	200	HIRA	46 C	0051.9	0052.4	1.1	240.0			0
	410	LEAR	8 S	0104.0E	0105.0	1.00	150.0			QL=2 ST=2 TYP=3
	245	LEAR	4 S/F	0105.0E	0107.0	3.00	53.0			QL=2 ST=2 TYP=3
	200	HIRA	46 C	0133.3	0133.7	1.3	280.0			0
	4995	LEAR	4 S/F	0137.0E	0140.0	8.00	49.0			QL=2 ST=2 TYP=3
	2840	PEKG	45 C	0138.0	0141.0	7.0	13.6			
	200	HIRA	42 SER	0246.0	0343.0	102.0	85.0			SL
	650	GORK	23 GRF	0303.0E	1108.9	537.00	22.0			
	2950	GORK	23 GRF	0340.4	1134.6	499.60	29.0			
	100	HIRA	46 C	0340.6		4.3	1000.00			
	500	HIRA	46 C	0340.9	0343.3	3.5	230.0			SL
	650	GORK	4 S/F	0340.9	0343.5	3.6	130.0			
	950	GORK	4 S/F	0341.2	0344.0	3.2	115.0			
	100	GORK	41 F	0341.2	0351.2		560.0			
	100	GORK	41 F	0341.2	0343.3		1450.0			
	100	GORK	41 F	0341.2	0341.9	12.0	12400.0			
	200	GORK	41 F	0341.3	0344.3	11.8	80.0			
	200	GORK	41 F	0341.3	0352.9		60.0			
	9100	GORK	22 GRF	0342.0U	1121.0	498.00	20.0			
	950	GORK	23 GRF	0406.0E	0522.3	113.10	3.0			
	2840	PEKG	45 C	0408.0	0408.6	7.0	19.2			
	2950	GORK	2 S/F	0408.1	0408.6	4.7	15.0			
	650	GORK	4 S/F	0409.5	0410.2	1.2	50.0			
	2840	PEKG	5 S	0455.0	0456.0	3.0	11.2			
	650	GORK	4 S/F	0455.4	0456.5	1.9	110.0			
	950	GORK	2 S/F	0455.7	0456.0	1.3	3.0			
	950	GORK	2 S/F	0513.5	0513.6	1.0	10.0			
	650	GORK	2 S/F	0544.0	0547.0	6.7	8.0			
	200	GORK	41 F	0545.0	0621.0		20.00			
	200	GORK	41 F	0545.0	0547.4	37.0	25.00			
	100	GORK	41 F	0546.1	0547.3	35.2	110.0			
	100	GORK	41 F	0546.1	0620.9		220.0			
	9300	KISV	2 S/F	0600.8	0601.8	3.5	8.0			
	204	IZMI	42 SER	0617.0	0620.8	8.0	110.0			
	536	ONDR	41 F	0700.0	0824.6	540.0	195.0			
	410	SVTO	8 S	0717.0E	0717.0		90.0			QL=2 ST=2 TYP=3
	200	HIRA	41 F	0729.7	0735.0	6.1	670.0			0
	204	IZMI	42 SER	0730.0	0735.2	6.5	1700.0			
	245	LEAR	49 GB	0731.0E	0735.0	5.00	710.0			QL=2 ST=2 TYP=6
	234	POTS	41 F	0731.3	0735.3	4.9	750.0			
	245	SVTO	49 GB	0732.0E	0735.0	4.00	780.0			QL=2 ST=2 TYP=6
	30	POTS	8 S	0733.0	0733.2	1.3	120.00			
	200	GORK	4 S/F	0734.9	0735.5	1.4	385.0			
204	IZMI	42 SER	0813.0	0826.0	15.5	380.0				
113	POTS	42 SER	0820.6	0820.9	8.2	350.0				
200	HIRA	8 S	0820.7	0821.1	0.5	145.0			0	
234	POTS	42 SER	0820.7	0825.3	11.8	275.0				
950	GORK	23 GRF	0825.1	0918.0	195.4	7.0				
610	LEAR	8 S	0826.0E	0827.0	2.00	220.0			QL=2 ST=2 TYP=3	
410	LEAR	8 S	0826.0E	0827.0	2.00	260.0			QL=2 ST=2 TYP=3	
650	GORK	4 S/F	0826.5	0827.3	2.2	185.0				
500	HIRA	46 C	0826.5	0827.4	3.5	540.0			SL	
245	LEAR	8 S	0827.0E	0829.0	2.00	92.0			QL=2 ST=2 TYP=3	
610	SVTO	8 S	0827.0E	0827.0		200.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	0827.0E	0827.0	1.00	390.0			QL=4 ST=2 TYP=3	
3000	POTS	2 S/F	0827.0	0827.1	1.0	7.0				
808	ONDR	8 S	0827.0	0827.2	1.7	54.0				
1470	POTS	4 S/F	0827.0	0827.2	1.5	11.0				
9500	POTS	2 S/F	0827.0	0827.2	1.0	10.0				
950	GORK	4 S/F	0827.0	0827.4	1.0	45.0				
30	POTS	8 S	0827.3	0827.4	0.7	4000.00				
810	KRAK	2 S/F	0827.4	0827.5	0.7	44.0	14.0			

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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 <sup>2</sup> Hz)	Mean		
22	650	GORK	4 S/F	0855.3	0855.7	1.4	20.0			
	950	GORK	2 S/F	0855.5	0855.7	0.7	4.0			
	810	KRAK	8 S	0855.9	0856.0	0.5	9.0			
	204	IZMI	41 F	0856.0	0857.5	1.5	200.0			
	245	LEAR	49 GB	0913.0E	0918.0	8.0D	520.0			QL=2 ST=2 TYP=6
	204	IZMI	41 F	0916.0	0918.0	3.0	950.0			
	245	SVTO	49 GB	0917.0E	0918.0	1.0D	640.0			QL=2 ST=2 TYP=6
	234	POTS	42 SER	0917.3	0918.2	11.3	1900.0			
	100	GORK	8 S	0917.4	0917.9	1.4	10600.0			
	113	POTS	42 SER	0917.5	0917.6	9.0	1800.0			
	200	GORK	46 C	0917.6	0918.0		865.0			
	200	GORK	46 C	0917.6	0917.8	0.9	770.0			
	30	POTS	42 SER	0917.8	0918.3	10.2	3500.0U			
	245	LEAR	4 S/F	0932.0E	0933.0	4.0D	420.0			QL=2 ST=2 TYP=3
	30	POTS	42 SER	0957.0	0958.4	5.7	800.0U			
	113	POTS	41 F	0957.0	1001.7	6.2	750.0			
	234	POTS	4 S/F	1001.4	1001.5	0.8	500.0			
	950	GORK	1 S	1008.5	1009.0	1.9	2.0			
	234	POTS	42 SER	1039.0	1048.7	12.7	700.0			
	200	GORK	41 F	1045.8	1121.6		290.0			
	200	GORK	41 F	1045.8	1048.8	42.8	580.0			
	245	SVTO	49 GB	1046.0E	1048.0	3.0D	620.0			QL=2 ST=2 TYP=6
	100	GORK	41 F	1046.1	1152.4		1060.0			
	100	GORK	41 F	1046.1	1137.9		560.0			
	100	GORK	41 F	1046.1	1120.9	73.9	560.0			
	410	SGMR	8 S	1048.0E	1048.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1048.0E	1048.0	1.0D	440.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1048.0E	1048.0	1.0D	140.0			QL=2 ST=2 TYP=3
	234	POTS	42 SER	1112.5	1117.0	10.5	1500.0			
	127	TORN	45 C	1118.0	1120.3	6.0	1300.0	140.0		
	204	IZMI	25 R	1118.5		42.0	500.0			
	113	POTS	42 SER	1118.5	1120.7	21.5	250.0			
	650	GORK	4 S/F	1119.1	1121.6	3.2	70.0			
	30	POTS	42 SER	1119.4	1121.4	20.6	4000.0U			
	410	SGMR	8 S	1120.0E	1121.0	2.0D	350.0			QL=2 ST=2 TYP=3
	610	SGMR	8 S	1120.0E	1121.0	2.0D	80.0			QL=4 ST=2 TYP=3
	810	KRAK	41 F	1120.0	1121.3	2.0	15.0	4.0		
	950	GORK	4 S/F	1120.2	1121.3	1.9	13.0			
	1470	POTS	4 S/F	1120.5	1121.4	2.5	7.0			
	245	SGMR	8 S	1121.0E	1121.0	U	270.0			QL=2 ST=2 TYP=3
	9500	POTS	1 S	1124.0	1124.0	0.5	6.0			
	650	GORK	4 S/F	1150.1	1152.2U	3.2	115.0D			
	808	ONDR	45 C	1151.0	1152.5	2.5	32.0			
	950	GORK	4 S/F	1151.2	1152.4	4.1	60.0			
	245	SVTO	8 S	1207.0E	1207.0	U	250.0			QL=2 ST=2 TYP=3
	234	POTS	4 S/F	1212.1	1213.2	1.9	700.0			
	245	SGMR	49 GB	1213.0E	1213.0	U	540.0			QL=2 ST=2 TYP=6
	410	SGMR	8 S	1213.0E	1213.0	U	230.0			QL=2 ST=2 TYP=3
	245	SVTO	49 GB	1213.0E	1213.0	707.0D	550.0			QL=2 ST=2 TYP=6
	410	SGMR	8 S	1245.0E	1245.0	U	100.0			QL=2 ST=2 TYP=3
9500	POTS	3 S	1322.0	1322.5	3.0	30.0				
410	SGMR	8 S	1355.0E	1355.0	U	100.0			QL=2 ST=2 TYP=3	
2800	OTTA	20 GRF	1615.0	1620.0	23.5	10.7	4.0			
2800	OTTA	3 S	1651.2	1651.9	4.9	29.9	6.0			
245	PALE	49 GB	1654.0E	1656.0	4.0D	530.0			QL=2 ST=2 TYP=6	
245	PALE	49 GB	1656.0E	1656.0	2.0D	530.0			QL=2 ST=3 TYP=6	
245	SVTO	8 S	1656.0E	1656.0	U	400.0			QL=2 ST=2 TYP=3	
15400	PALE	8 S	1700.0E	1700.0	1.0D	49.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	1904.0E	1904.0	U	60.0			QL=4 ST=2 TYP=3	
610	PALE	8 S	1931.0E	1931.0	1.0D	84.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	1931.0E	1932.0	1.0D	210.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	1945.0E	1946.0	2.0D	59.0			QL=4 ST=2 TYP=3	
500	HIRA	46 C	2046.5	2047.5	1.8	45.0			ML	
500	HIRA	21 GRF	2128.0	2419.0	280.0	20.0	4.0		WL	
2800	OTTA	3 S	2201.0	2203.7	5.7	41.2	8.0			
4995	SGMR	8 S	2203.0E	2204.0	1.0D	53.0			QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	2236.0E	2240.0	9.0D	63.0			QL=4 ST=2 TYP=3	
8800	SGMR	4 S/F	2236.0E	2240.0	9.0D	74.0			QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	2236.0E	2237.0	9.0D	51.0			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 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
22	L	15400 SGMR	4 S/F	2236.0E	2240.0	9.0D	60.0			QL=4 ST=2 TYP=3
		410 PALE	8 S	2312.0E	2312.0	U	140.0			QL=4 ST=2 TYP=3
		245 LEAR	8 S	2314.0E	2314.0	U	78.0			QL=2 ST=2 TYP=3
		245 LEAR	8 S	2319.0E	2319.0	U	90.0			QL=2 ST=2 TYP=3
		410 PALE	8 S	2342.0E	2342.0	U	82.0			QL=4 ST=2 TYP=3
23	L	200 GORK	44 NS	0249.5E		550.5D		5.0		
		100 GORK	44 NS	0249.5E		550.5D		10.0		
		245 SVTO	44 NS	0427.0E	0511.0U	768.0D	310.0			QL=2 ST=2 TYP=1
		33 UPIC	43 NS	0502.0		778.0D				
		260 ONDR	44 NS	0530.0E	0754.5	670.0D	272.0			
		204 IZMI	43 NS	0600.0		360.0	35.0			
		127 TORN	44 NS	0620.0E		520.0D		150.0		V=1
		113 POTS	44 NS	0640.0E	0713.0	500.0D	70.0			
		234 POTS	43 NS	0652.0	0713.0	488.0D	55.0			
		610 LEAR	44 NS	0800.0E	0917.0	960.0D	450.0			QL=2 ST=1 TYP=1
		245 SGMR	44 NS	1244.0E	1821.0	626.0D	150.0			QL=2 ST=2 TYP=1
		245 PALE	44 NS	1745.0E	2031.0	654.0D	170.0			QL=4 ST=2 TYP=1
		200 HIRA	44 NS	2000.0E	2411.0	800.0D	124.0	49.0		MR
		100 HIRA	44 NS	2000.0E	0455.0	800.0D	320.0	205.0		
		245 LEAR	44 NS	2258.0E	0920.0U	655.0D	1000.0			QL=2 ST=2 TYP=1
		245 LEAR	4 S/F	0136.0E	0141.0	9.0D	250.0			QL=2 ST=2 TYP=5
		15400 LEAR	8 S	0146.0E	0146.0	1.0D	20.0			QL=2 ST=2 TYP=3
		100 GORK	46 C	0245.0E	0252.3	9.3D	3250.0			
		100 GORK	46 C	0245.0E	0253.5		4770.0			
		200 GORK	46 C	0249.5E	0252.2	5.1D	370.0			
		200 GORK	46 C	0249.5E	0253.4		1300.0			
		4995 LEAR	4 S/F	0252.0E	0253.0	1268.0D	16.0			QL=2 ST=1 TYP=3
		410 LEAR	4 S/F	0252.0E	0252.0	1268.0D	51.0			QL=2 ST=1 TYP=3
		245 LEAR	49 GB	0253.0E	0253.0	U	680.0			QL=4 ST=2 TYP=6
		245 PALE	49 GB	0253.0E	0256.0	3.0D	630.0			QL=4 ST=2 TYP=6
		410 PALE	8 S	0300.0E	0301.0	1.0D	1.0			QL=4 ST=2 TYP=3
		650 GORK	21 GRF	0303.0E	0313.6	40.9D	3.0			
		950 GORK	21 GRF	0314.6	0331.4	35.3	5.0			
		2840 PEKG	5 S	0327.0	0328.7	4.0	22.2			
		2950 GORK	21 GRF	0327.8	0737.3	512.2D	33.0			
		2950 GORK	2 S/F	0327.8	0329.8	3.0	11.0			
		650 GORK	4 S/F	0328.9	0329.0	2.0	45.0			
		950 GORK	4 S/F	0328.9	0329.9	1.7	20.0			
		9100 GORK	23 GRF	0336.0U	1142.0	504.0D	35.0			
		650 GORK	4 S/F	0340.3	0342.0	2.3	24.0			
		950 GORK	3 S	0346.2	0347.9	2.5	9.0			
		650 GORK	21 GRF	0410.9	0705.5	469.1D	8.0			
		410 LEAR	8 S	0500.0E	0500.0	U	250.0			QL=2 ST=2 TYP=3
		2840 PEKG	5 S	0500.0	0501.9	3.0	12.4			
		2950 GORK	2 S/F	0501.5	0502.8	1.9	11.0			
		100 GORK	4 S/F	0501.7	0503.0	2.6	650.0			
		200 GORK	4 S/F	0501.8	0502.9	1.8	150.0			
		15400 LEAR	8 S	0521.0E	0522.0	1.0D	23.0			QL=2 ST=3 TYP=3
		245 LEAR	8 S	0521.0E	0522.0	2.0D	190.0			QL=2 ST=3 TYP=3
		2840 PEKG	3 S	0521.0	0521.2	3.0	32.7			
9100 GORK	2 S/F	0521.8	0522.2	0.7	40.0					
4995 LEAR	8 S	0522.0E	0522.0	U	19.0			QL=2 ST=3 TYP=3		
8800 LEAR	8 S	0522.0E	0522.0	U	28.0			QL=2 ST=3 TYP=3		
1415 LEAR	8 S	0522.0E	0522.0	2.0D	14.0			QL=2 ST=3 TYP=3		
2695 LEAR	4 S/F	0522.0E	0522.0	3.0D	32.0			QL=2 ST=3 TYP=3		
2850 CRIM	1 S	0522.0	0522.1	2.0	38.0	13.0				
2950 GORK	3 S	0522.1	0522.3	2.4	25.0					
650 GORK	1 S	0522.1	0522.4	3.3	4.0					
950 GORK	1 S	0522.1	0522.5	3.4	7.0					
15000 KISV	1 S	0522.2	0522.3	0.4	26.0					
9300 KISV	1 S	0522.2	0522.3	0.8	34.0					
536 ONDR	41 F	0627.0	0708.6	940.0	126.0					
410 LEAR	8 S	0631.0E	0632.0	1.0D	55.0			QL=2 ST=2 TYP=3		
100 GORK	46 C	0701.9	0704.2		3800.0					
200 GORK	4 S/F	0701.9	0707.7	7.3	250.0					
100 GORK	46 C	0701.9	0703.7	4.1	2550.0					
127 TORN	45 C	0702.0	0704.6	3.0	1600.0	490.0				
33 UPIC	48 C	0702.1		4.1						

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak	Mean		
							(10 -22 W/m <sup>2</sup> Hz)			
23	204	IZMI	42	SER	0702.5	0705.2	3.5	300.0		
	410	LEAR	8	S	0703.0E	0703.0	1.00	60.0		QL=2 ST=2 TYP=3
	950	GORK	2	S/F	0703.5	0703.7	2.1	4.0		
	650	GORK	2	S/F	0703.6	0704.3	1.3	13.0		
	245	LEAR	8	S	0704.0E	0704.0	1.00	240.0		QL=2 ST=2 TYP=3
	3000	POTS	21	GRF	0715.0	0740.5	60.0	39.0		
	9500	POTS	20	GRF	0715.0	0740.7	55.0	35.0		
	3013	IZMI	22	GRF	0730.5	0740.8	29.5	18.0	10.0	
	2840	PEKG	45	C	0731.0	0739.7	22.0	34.0		
	15000	KISV	22	GRF	0731.7	0740.5	17.0	36.0		
	1470	POTS	40	F	0732.5	0740.4	23.0	8.0		
	9300	KISV	20	GRF	0734.0	0741.6	18.6	32.0		
	200	GORK	41	F	0735.0	0735.2	7.3	13700.0		
	200	GORK	41	F	0735.0	0741.8		740.0		
	2950	GORK	2	S/F	0738.5	0740.6	4.3	17.0		
	245	LEAR	49	GB	0740.0E	0741.0	3.00	1600.0		QL=2 ST=3 TYP=6
	234	POTS	41	F	0740.3	0740.9	15.7	6500.0		
	113	POTS	8	S	0740.5	0741.1	1.4	2000.0		
	100	GORK	8	S	0740.8	0741.3	1.0	14260.0		
	650	GORK	8	S	0740.9	0741.2	0.5	25.0		
	245	LEAR	49	GB	0741.0E	0741.0	1.00	760.0		QL=2 ST=2 TYP=6
	245	SVTO	49	GB	0741.0E	0741.0	U	1300.0		QL=2 ST=2 TYP=6
	204	IZMI	8	S	0741.0	0741.2	0.5	15000.0		
	30	POTS	41	F	0741.0	0741.2	1.4	4000.0U		
	950	GORK	1	S	0741.1	0741.2	0.6	7.0		
	204	IZMI	41	F	0747.5	0747.6	0.8	800.0		
	9500	POTS	20	GRF	0855.0	0906.0	50.0	22.0		
	3000	POTS	20	GRF	0855.0	0905.0	55.0	16.0		
	1470	POTS	20	GRF	0900.0	0906.0	48.0	3.0		
	9500	POTS	20	GRF	0950.0	1004.3	35.0	17.0		
	15000	KISV	22	GRF	0953.3	1002.0	23.5	21.0		
	810	KRAK	8	S	1043.7	1044.0	0.5	15.0		
	650	GORK	4	S/F	1044.0	1044.4	0.7	13.0		
	9500	POTS	20	GRF	1100.0	1104.0	15.0	17.0		
	9300	KISV	22	GRF	1100.6	1104.2	12.6	18.0		
	650	GORK	4	S/F	1105.2	1105.5	1.1	23.0		
	9500	POTS	20	GRF	1120.0	1135.0	55.0	22.0		
	9300	KISV	22	GRF	1121.2	1135.2	41.0	27.0		
	15000	KISV	2	S/F	1134.4	1135.3	1.9	19.0		
	9500	POTS	20	GRF	1244.0	1246.6	6.0	17.0		
	9500	POTS	20	GRF	1320.0	1322.4	40.0	20.0		
	410	SGMR	8	S	1755.0E	1755.0	1.00	55.0		QL=4 ST=2 TYP=3
245	PALE	8	S	1821.0E	1821.0	1.00	150.0		QL=4 ST=2 TYP=3	
245	PALE	8	S	1837.0E	1837.0	U	75.0		QL=4 ST=2 TYP=3	
245	PALE	8	S	1938.0E	1939.0	2.00	240.0		QL=4 ST=2 TYP=3	
245	SGMR	8	S	1938.0E	1939.0	2.00	260.0		QL=2 ST=2 TYP=3	
410	SGMR	8	S	1939.0E	1940.0	1.00	50.0		QL=4 ST=2 TYP=3	
245	PALE	4	S/F	2022.0E	2025.0	3.00	120.0		QL=2 ST=2 TYP=3	
245	PALE	8	S	2055.0E	2055.0	U	180.0		QL=2 ST=2 TYP=3	
410	PALE	8	S	2055.0E	2055.0	U	45.0		QL=4 ST=2 TYP=3	
245	SGMR	8	S	2224.0E	2224.0	1.00	99.0		QL=2 ST=2 TYP=3	
410	SGMR	8	S	2224.0E	2224.0	U	110.0		QL=4 ST=2 TYP=3	
245	LEAR	8	S	2302.0E	2303.0	1.00	59.0		QL=2 ST=2 TYP=3	
245	PALE	8	S	2303.0E	2303.0	1.00	110.0		QL=2 ST=2 TYP=3	
245	LEAR	8	S	2333.0E	2334.0	1.00	110.0		QL=2 ST=2 TYP=3	
2840	PEKG	3	S	2336.0	2339.2	4.0	17.1			
2695	LEAR	8	S	2338.0E	2339.0	1.00	17.0		QL=2 ST=2 TYP=3	
8800	LEAR	8	S	2338.0E	2339.0	1.00	46.0		QL=2 ST=2 TYP=3	
4995	LEAR	8	S	2338.0E	2338.0	2.00	41.0		QL=2 ST=2 TYP=3	
15400	LEAR	4	S/F	2338.0E	2339.0	4.00	63.0		QL=2 ST=2 TYP=3	
24	100	GORK	44	NS	0257.0E		543.00	40.0		
	200	GORK	44	NS	0257.0E		543.00	25.0		
	245	SVTO	44	NS	0436.0E	0918.0	757.00	1000.0		QL=2 ST=3 TYP=1
	33	UPIC	43	NS	0522.0		758.00			
	260	ONDR	44	NS	0530.0E		670.00			
	113	POTS	44	NS	0540.0E	1014.0	560.00	1600.0		
	234	POTS	44	NS	0540.0E	0952.0	560.00	3000.0		
204	IZMI	43	NS	0600.0		360.0	100.0			

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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	127 TORN	44 NS	0620.0E		520.00		570.0		V=1
	600 HUMN	43 NS	0623.0	0936.0	697.00	265.0			
	536 ONDR	43 NS	0629.0		400.0				
	410 LEAR	44 NS	0636.0E	0925.0U	197.00	1200.0			QL=2 ST=2 TYP=1
	410 SVTO	44 NS	0727.0E	0922.0	274.00	1000.0			QL=2 ST=3 TYP=1
	610 LEAR	44 NS	0800.0E	0920.0U	113.00	830.0			QL=2 ST=2 TYP=1
	808 ONDR	43 NS	0858.0	0936.4	122.0	261.0			
	30 POTS	43 NS	0913.0	1054.0	277.0	1200.0U			
	610 SGMR	44 NS	1021.0E	1250.0	769.00	110.0			QL=2 ST=2 TYP=1
	410 SGMR	44 NS	1021.0E	1927.0	769.00	340.0			QL=2 ST=2 TYP=1
	245 SGMR	44 NS	1021.0E	1031.0	769.00	690.0			QL=2 ST=2 TYP=1
	245 PALE	44 NS	1643.0E	0420.0	715.00	310.0			QL=2 ST=2 TYP=1
	100 HIRA	44 NS	2000.0E	0735.0	800.00	210.0	42.0		
	200 HIRA	44 NS	2000.0E	0320.0	800.00	73.0	34.0		SL
	245 LEAR	44 NS	2258.0E	0416.0	379.00	350.0			QL=2 ST=2 TYP=1
	2840 PEKG	20 GRF	0208.0	0212.6	41.0	12.7			
	410 LEAR	8 S	0216.0E	0217.0	2.00	40.0			QL=2 ST=2 TYP=3
	610 LEAR	8 S	0216.0E	0217.0	1.00	230.0			QL=2 ST=2 TYP=3
	610 PALE	8 S	0217.0E	0217.0	U	220.0			QL=4 ST=2 TYP=3
	950 GORK	23 GRF	0303.0E	0826.2	537.00	30.0			
	650 GORK	23 GRF	0303.0E	0826.2	537.00	75.0			
	100 GORK	46 C	0421.5	0427.5	7.3	1070.0			
	100 GORK	46 C	0421.5	0427.8		1540.0			
	245 PALE	8 S	0427.0E	0427.0	1.00	430.0			QL=2 ST=2 TYP=3
	9100 GORK	22 GRF	0430.0U	1012.0	450.00	50.0			
	2950 GORK	22 GRF	0436.8	0438.8	11.2	12.0			
	245 SVTO	8 S	0442.0E	0442.0	U	470.0			QL=2 ST=2 TYP=3
	2840 PEKG	20 GRF	0537.0	0544.0	11.0	4.6			
	1470 POTS	8 S	0708.8	0708.9	0.2	23.0			
	100 GORK	46 C	0713.1	0715.1		475.0			
	100 GORK	46 C	0713.1	0714.3	4.9	1720.0			
	200 GORK	41 F	0713.5	0754.0		960.0			
	200 GORK	41 F	0713.5	0715.2	41.3	770.0			
	3000 POTS	21 GRF	0725.0	0906.0	335.0	85.0			
	2950 GORK	21 GRF	0727.8	0906.5	272.20	63.0			
	810 KRAK	49 GB	0735.7	0950.0	325.00	500.0	100.00		
	1470 POTS	22 GRF	0740.0	0951.5	390.0	185.0			
	9300 KISV	2 S/F	0741.0	0741.6	1.5	13.0			
	9500 POTS	20 GRF	0800.0	0907.0	340.0	31.0			
	2850 CRIM	20 GRF	0832.8	0906.0	185.0	70.0	34.0		
	650 GORK	47 GB	0836.8	0921.2	129.2	910.0			
	950 GORK	47 GB	0836.8	0936.3		240.0			
	650 GORK	47 GB	0836.8	0938.5		1100.0			
	950 GORK	47 GB	0836.8	0920.5	129.2	290.0			
	204 IZMI	27 RF	0840.0	0945.0	90.0	2500.0			
	100 GORK	8 S	0840.6	0841.8	2.7	10660.0			
	1415 SVTO	49 GB	0857.0E	0946.0	90.00	950.0			QL=4 ST=2 TYP=7
	3013 IZMI	22 GRF	0901.0	0906.5	16.0	28.0	20.0		
	2695 SVTO	4 S/F	0905.0E	0906.0	23.00	69.0			QL=4 ST=2 TYP=3
	245 SVTO	49 GB	0918.0E	0952.0	88.00	3100.0			QL=2 ST=2 TYP=7
410 SVTO	49 GB	0922.0E	0957.0	72.00	1500.0			QL=2 ST=2 TYP=7	
2695 LEAR	4 S/F	0927.0E	0935.0	873.00	30.0			QL=2 ST=1 TYP=5	
1415 LEAR	49 GB	0928.0E	0942.0	25.00	790.0			QL=2 ST=2 TYP=7	
245 LEAR	49 GB	0931.0	0942.0	22.0	3000.0			QL=2 ST=2 TYP=7	
410 LEAR	49 GB	0931.0	0936.0	22.0	1900.0			QL=2 ST=2 TYP=7	
610 LEAR	49 GB	0931.0	0938.0	22.0	1000.0			QL=2 ST=2 TYP=7	
1470 POTS	4 S/F	0941.0	0942.5	2.6	830.0				
1470 POTS	4 S/F	0944.2	0946.2	4.3	570.0				
430 KRAK	49 GB	1018.0E	1032.0U	110.00	1140.00	350.00			
1470 POTS	4 S/F	1019.0	1020.8	6.0	280.0				
610 SGMR	4 S/F	1020.0E	1023.0	820.00	110.0			QL=4 ST=1 TYP=3	
245 SGMR	4 S/F	1020.0E	1022.0	820.00	340.0			QL=2 ST=1 TYP=3	
1415 SGMR	4 S/F	1023.0E	1023.0	817.00	60.0			QL=4 ST=1 TYP=3	
808 ONDR	41 F	1100.0	1145.1	160.0	5.9				
9300 KISV	22 GRF	1136.0	1144.1	15.6	25.0				
3013 IZMI	7 C	1143.0	1145.0	8.0	21.0	10.0			
2850 CRIM	20 GRF	1143.0	1145.0	22.0	39.0	15.0			
3000 POTS	3 S	1143.0	1144.8	4.0	52.0				
2950 GORK	3 S	1143.5	1145.0	4.0	25.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
24	1470	POTS	4 S/F	1144.0	1145.0	2.5	27.0			
	245	SGMR	49 GB	1324.0E	1324.0	1.0D	800.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	1324.0E	1325.0	1.0D	790.0			QL=2 ST=2 TYP=6
	127	TORN	4 S/F	1324.1	1324.6	1.4	2400.0	1200.0		
	2800	OTTA	3 S	1324.5	1325.0	2.0	15.1	3.0		
	1470	POTS	3 S	1324.5	1325.0	2.0	32.0			
	536	ONDR	41 F	1337.0	1450.6	143.0	42.0			
	410	SVTO	8 S	1341.0E	1341.0	U	91.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	1609.0E	1610.0	1.0D	410.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	1855.0E	1855.0	U	330.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1927.0E	1932.0	5.0D	110.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1931.0E	1932.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1936.0E	1936.0	U	3100.0			QL=2 ST=2 TYP=6
	245	SGMR	49 GB	1936.0E	1936.0	U	2300.0			QL=2 ST=2 TYP=6
	245	PALE	8 S	1939.0E	1939.0	1.0D	230.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	1946.0E	1946.0	U	410.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1946.0E	1946.0	U	260.0			QL=2 ST=2 TYP=3
	2800	OTTA	3 S	1946.0	1946.4	5.1	9.0	2.0		
	410	PALE	8 S	2221.0E	2222.0	1.0D	58.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2352.0E	2352.0	U	53.0			QL=2 ST=2 TYP=3
	2840	PEKG	45 C	2353.0	2356.3	6.0	33.7			
	245	LEAR	4 S/F	2355.0E	2356.0	4.0D	280.0			QL=2 ST=2 TYP=3
	2695	PENT	42 SER	2355.0	2401.3	7.6				
	2695	PENT	42 SER	2355.0	2356.5	1.8	28.3	6.0		
	200	HIRA	41 F	2355.4	2401.3	13.2	485.0			ML
	2695	LEAR	4 S/F	2356.0E	2356.0	3.0D	27.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	2356.0E	2356.0	3.0D	50.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	2356.0E	2356.0	1.0D	29.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2356.0E	2356.0	1.0D	240.0			QL=2 ST=2 TYP=5
	1415	LEAR	8 S	2357.0E	0000.0	2.0D	1.0			QL=2 ST=2 TYP=3
2695	PENT	42 SER	2357.8	2358.1	1.6	24.6	5.0			
25	410	PALE	44 NS	0150.0E	0231.0	1330.0D	200.0			QL=4 ST=3 TYP=1
	200	GORK	44 NS	0258.0E		392.0D		5.0		
	100	GORK	44 NS	0258.0E		392.0D		5.0		
	410	LEAR	44 NS	0344.0E	0412.0	31.0D	84.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	0429.0E	0441.0	457.0D	310.0			QL=2 ST=2 TYP=1
	260	ONDR	44 NS	0530.0E	0735.1	670.0D	144.0			
	113	POTS	44 NS	0540.0E	0739.0	540.0D	50.0			
	33	UPIC	43 NS	0542.0		738.0D				
	204	IZMI	43 NS	0600.0		360.0	40.0			
	245	LEAR	44 NS	0611.0E	0739.0	223.0D	200.0			QL=2 ST=2 TYP=1
	127	TORN	44 NS	0620.0E		520.0D		50.0		V=1
	234	POTS	44 NS	0624.0E	0737.0	496.0D	90.0			
	430	KRAK	44 NS	0705.5E	0738.2	355.0D	1000.0			
	245	SGMR	44 NS	1133.0E	1312.0	695.0D	190.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	1506.0E	1535.0	126.0D	420.0			QL=4 ST=2 TYP=1
	200	HIRA	44 NS	2000.0E	0510.0	800.0D	63.0	33.0		ML
	100	HIRA	44 NS	2000.0E	2246.0	800.0D	210.0	98.0		
	245	LEAR	44 NS	2257.0E	0004.0	657.0D	310.0			QL=2 ST=2 TYP=1
	1415	LEAR	4 S/F	0000.0E	0001.0	7.0D	53.0			QL=2 ST=2 TYP=3
	2695	PENT	42 SER	0000.6	0001.3	2.4	37.9	7.0		
	610	LEAR	8 S	0001.0E	0001.0	U	86.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	0001.0E	0001.0	U	81.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0001.0E	0001.0	U	300.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0001.0E	0001.0	U	600.0			QL=4 ST=2 TYP=6
	17000	NOBE	1 S	0145.9	0146.1	0.6	43.0			R,80,35GHz:0
	2840	PEKG	5 S	0245.0	0246.1	4.0	29.6			
	410	PALE	8 S	0248.0E	0248.0	U	200.0			QL=4 ST=3 TYP=3
	17000	NOBE	7 C	0305.8	0306.6	1.5	68.0			R,80,35GHz:0
	4995	PALE	8 S	0306.0E	0306.0	U	82.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0306.0E	0306.0	U	66.0			QL=4 ST=2 TYP=3
650	GORK	8 S	0306.0	0306.5	1.0	47.0				
9100	GORK	3 S	0306.0	0306.6	1.5	100.0				
950	GORK	1 S	0306.1	0306.6	1.1	6.0				
100	GORK	46 C	0306.2	0306.5	0.7	1380.0				
2950	GORK	2 S/F	0306.2	0306.5	3.2	18.0				
200	GORK	4 S/F	0306.2	0306.7	0.8	280.0				
100	GORK	46 C	0306.2	0306.7		1490.0				

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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		
25	245	PALE	8 S	0321.0E	0321.0	1.00	170.0			QL=2 ST=2 TYP=3
	100	GORK	46 C	0343.5	0344.4	4.5	1150.0			
	100	GORK	46 C	0343.5	0346.7		1840.0			
	9100	GORK	2 S/F	0455.7	0457.2	3.0	68.0			
	8800	LEAR	8 S	0456.0E	0457.0	1.00	59.0			QL=2 ST=2 TYP=3
	15000	KISV	4 S/F	0456.0	0457.2	5.2	57.0			
	9300	KISV	4 S/F	0456.2	0457.2	7.3	68.0			
	9100	GORK	30 PBI	0458.7	0458.7	244.3U	12.0			
	410	LEAR	4 S/F	0658.0E	0659.0	3.00	74.0			QL=2 ST=2 TYP=3
	100	GORK	41 F	0704.5	0705.1	38.8	800.0			
	100	GORK	41 F	0704.5	0742.4		345.0			
	204	IZMI	8 S	0705.5	0705.6	0.6	250.0			
	2950	GORK	1 S	0719.0	0721.0	4.7	4.0			
	536	ONDR	41 F	0723.0	1212.3	570.0	171.0			
	410	LEAR	8 S	0738.0E	0738.0	U	140.0			QL=2 ST=2 TYP=3
	650	GORK	1 S	0751.8	0752.0	0.6	3.0			
	2950	GORK	20 GRF	0810.8	0832.2	37.8	5.0			
	650	GORK	1 S	0849.3	0850.1	1.3	7.0			
	204	IZMI	42 SER	0915.5	0916.5	2.5	300.0			
	410	SVTO	8 S	0952.0E	0952.0	U	58.0			QL=4 ST=2 TYP=3
	600	HUMN	2 S/F	1042.5	1044.5	3.0	27.0	8.0		
	810	KRAK	8 S	1044.4	1044.5	0.5	170.00			
	3000	POTS	4 S/F	1045.0	1047.0	3.0	15.0			
	1470	POTS	40 F	1045.0	1048.0	4.0	6.0			
	9500	POTS	3 S	1045.0	1047.0	4.0	14.0			
	3013	IZMI	5 S	1046.0	1047.0	4.0	8.0	4.0		
	808	ONDR	3 S	1048.1	1048.2	1.0	62.0			
	9500	POTS	3 S	1119.0	1119.7	5.0	10.0			
	9300	KISV	2 S/F	1119.0	1119.8	5.2	16.0			
	245	SVTO	8 S	1202.0E	1202.0	1.00	86.0			QL=2 ST=2 TYP=3
	410	SGMR	8 S	1204.0E	1204.0	1.00	110.0			QL=2 ST=2 TYP=3
	410	SGMR	49 GB	1210.0E	1210.0	2.00	500.0			QL=2 ST=2 TYP=6
	410	SVTO	49 GB	1210.0E	1210.0	2.00	560.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	1259.0E	1259.0	U	72.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1311.0E	1311.0	U	71.0			QL=2 ST=3 TYP=3
	410	SVTO	8 S	1311.0E	1311.0	U	97.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1312.0E	1312.0	U	170.0			QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	1528.1	1529.9	2.6	18.3	5.0		
	245	SGMR	49 GB	1529.0E	1531.0	2.00	760.0			QL=2 ST=2 TYP=6
	2695	SGMR	4 S/F	1529.0E	1530.0	511.00	31.0			QL=4 ST=1 TYP=3
	2800	OTTA	29 PBI	1530.7	1530.7	15.2	6.1	3.0		
	245	SVTO	49 GB	1531.0E	1531.0	U	810.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	1534.0E	1535.0	2.00	490.0			QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	1534.4	1534.5	2.8	40.6	8.0		
	245	PALE	8 S	1854.0E	1855.0	1.00	110.0			QL=4 ST=2 TYP=3
245	PALE	49 GB	1906.0E	1908.0	2.00	630.0			QL=4 ST=2 TYP=6	
410	PALE	8 S	1908.0E	1908.0	U	60.0			QL=4 ST=2 TYP=3	
410	SGMR	8 S	1908.0E	1908.0	U	44.0			QL=2 ST=2 TYP=3	
245	SGMR	49 GB	1908.0E	1908.0	U	550.0			QL=2 ST=2 TYP=6	
245	PALE	8 S	1923.0E	1923.0	1.00	63.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2014.0E	2014.0	U	82.0			QL=4 ST=2 TYP=3	
2800	OTTA	22 GRF	2015.0	2017.5	5.0	25.1	7.0			
245	PALE	8 S	2017.0E	2017.0	1.00	140.0			QL=4 ST=2 TYP=3	
2800	OTTA	20 GRF	2030.0	2033.5	14.5	8.6	4.0			
245	PALE	8 S	2050.0E	2050.0	U	100.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2117.0E	2117.0	U	65.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2140.0E	2141.0	2.00	160.0			QL=4 ST=2 TYP=3	
245	PALE	8 S	2144.0E	2144.0	U	53.0			QL=4 ST=2 TYP=3	
410	PALE	8 S	2207.0E	2207.0	U	54.0			QL=4 ST=2 TYP=3	
1415	SGMR	8 S	2207.0E	2208.0	2.00	86.0			QL=4 ST=2 TYP=3	
1415	PALE	8 S	2208.0E	2208.0	1.00	95.0			QL=4 ST=2 TYP=3	
26	410	LEAR	44 NS	0149.0E	0239.0	216.00	310.0			QL=2 ST=3 TYP=1
	100	GORK	44 NS	0257.0E		393.00		10.0		
	200	GORK	44 NS	0258.0E		392.00		10.0		
	245	SVTO	44 NS	0505.0E	0613.0	442.00	120.0			QL=2 ST=2 TYP=1
	250	ONDR	44 NS	0530.0E	0733.6	660.00	164.0			
	204	IZMI	43 NS	0600.0		360.0	60.0			
	127	TORN	44 NS	0620.0E		520.00		12.0		V=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		
26	33	UPIC	43 NS	0702.0		558.0				
	430	KRAK	44 NS	0706.0E	0812.5	355.0D	240.0D	10.0		
	245	SGMR	44 NS	1140.0E	1752.0	498.0D	210.0			
	245	SVTO	44 NS	1352.0E	1706.0	198.0D	180.0			QL=2 ST=2 TYP=1
	410	SGMR	44 NS	1520.0E	1640.0	180.0D	180.0			QL=2 ST=2 TYP=1
	245	PALE	44 NS	1644.0E	1658.0	62.0D	250.0			QL=2 ST=2 TYP=1
	100	HIRA	41 F	0039.5	0040.3	3.0	640.0			
	2840	PEKG	5 S	0053.0	0054.9	9.0	11.4			
	2840	PEKG	40 F	0103.0	0111.0	35.0	23.8			
	200	HIRA	42 SER	0117.8	0143.0	54.0	140.0			SL
	245	LEAR	8 S	0126.0E	0126.0	1.0D	210.0			QL=2 ST=3 TYP=3
	245	PALE	8 S	0126.0E	0126.0	1.0D	190.0			QL=2 ST=2 TYP=3
	100	HIRA	42 SER	0127.7	0209.2	47.5	1000.0D			
	410	PALE	8 S	0131.0E	0131.0	1.0D	97.0			
	2840	PEKG	2 S/F	0150.0	0156.5	9.0	11.4			QL=4 ST=2 TYP=3
	2840	PEKG	45 C	0208.0	0212.4	14.0	19.3			
	410	PALE	8 S	0216.0E	0216.0	U	170.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0228.0E	0228.0	U	240.0			QL=2 ST=2 TYP=3
	410	PALE	4 S/F	0239.0E	0240.0	3.0D	120.0			QL=2 ST=3 TYP=3
	2695	PALE	4 S/F	0324.0E	0325.0	6.0D	65.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0324.0	0325.8	6.0	71.5			
	2950	GORK	4 S/F	0324.3	0325.9	6.3	57.0			
	4995	LEAR	8 S	0325.0E	0325.0	1.0D	35.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0325.0E	0325.0	1.0D	66.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0325.0E	0326.0	1.0D	23.0			QL=2 ST=2 TYP=3
	2950	GORK	21 GRF	0338.2	0419.6	293.1	15.0			
	100	GORK	46 C	0349.9	0353.4	4.8	680.0			
	100	GORK	46 C	0349.9	0353.8		2490.0			
	2840	PEKG	5 S	0351.0	0353.7	8.0	90.9			
	100	HIRA	46 C	0352.1		2.0	1000.0D			
	200	HIRA	46 C	0352.1	0352.8	1.5	590.0			0
	950	GORK	4 S/F	0352.3	0353.9	6.3	116.0			
	2950	GORK	4 S/F	0352.5	0353.9	3.1	53.0			
	245	LEAR	8 S	0353.0E	0353.0	1.0D	190.0			QL=2 ST=3 TYP=3
	410	LEAR	8 S	0353.0E	0353.0	1.0D	74.0			QL=2 ST=3 TYP=3
	2695	LEAR	8 S	0353.0E	0353.0	1.0D	73.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0353.0E	0354.0	1.0D	67.0			QL=2 ST=2 TYP=3
	1415	LEAR	8 S	0353.0E	0353.0	1.0D	62.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0353.0E	0353.0	1.0D	100.0			QL=2 ST=3 TYP=3
	610	PALE	8 S	0353.0E	0354.0	1.0D	72.0			QL=4 ST=3 TYP=3
	1415	PALE	8 S	0353.0E	0353.0	1.0D	65.0			QL=4 ST=3 TYP=3
	2695	PALE	8 S	0353.0E	0353.0	1.0D	50.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	0353.0E	0353.0	1.0D	220.0			QL=2 ST=3 TYP=3
	9100	GORK	22 GRF	0353.0	0503.0	127.0U	13.0			
	200	GORK	4 S/F	0353.1	0353.9	1.4	330.0			
	500	HIRA	46 C	0353.2	0353.8	3.8	48.0			WL
	245	LEAR	8 S	0516.0E	0517.0	1.0D	270.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0517.0E	0517.0	U	230.0			QL=2 ST=2 TYP=3
	200	HIRA	42 SER	0528.0	0601.3	35.0	230.0			SL
	9100	GORK	23 GRF	0649.4	0903.0	160.6D	20.0			
245	LEAR	8 S	0656.0E	0656.0	1.0D	220.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	0656.0E	0656.0	1.0D	230.0			QL=2 ST=2 TYP=3	
536	ONDR	41 F	0700.0	0812.1	450.0	46.0				
650	GORK	45 C	0706.0	0706.2	0.8	8.0				
950	GORK	2 S/F	0706.0	0706.2	0.8	5.0				
650	GORK	45 C	0706.0	0706.4		7.0				
113	POTS	41 F	0725.8	0733.1	11.2	2000.0				
200	GORK	41 F	0727.0	0733.1		1000.0				
100	GORK	41 F	0727.0	0733.2	16.1	1925.0				
100	GORK	41 F	0727.0	0740.3		3400.0				
200	GORK	41 F	0727.0	0731.6		170.0				
127	TORN	4 S/F	0727.0	0727.6	1.4	11700.0	5800.0			
200	GORK	41 F	0727.0	0727.9	6.7	500.0				
30	POTS	41 F	0730.6	0741.6	13.4	4000.0D				
127	TORN	47 GB	0730.7	0733.1	3.0	7600.0	900.0			
2840	PEKG	5 S	0731.0	0733.1	4.0	21.8				
3013	IZMI	41 F	0731.0	0733.5	12.0	10.0				
2850	CRIM	41 F	0731.3	0733.3	11.0	30.0	11.0			
2850	CRIM	41 F	0731.3	0741.4		32.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (W/m <sup>2</sup> Hz)		
26	234	POTS	4 S/F	0731.4	0733.0	2.1	700.0			
	2950	GORK	2 S/F	0731.8	0733.2	2.8	17.0			
	950	GORK	4 S/F	0731.9	0733.2	3.3	30.0			
	4995	LEAR	8 S	0732.0E	0733.0	1.00	33.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0732.0E	0733.0	1.00	42.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0732.0E	0732.0	1.00	460.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0732.0E	0733.0	1.00	480.0			QL=2 ST=2 TYP=3
	3000	POTS	42 SER	0732.0U	0742.0U	11.0U	25.0			
	1470	POTS	42 SER	0732.0	0733.9	11.0	30.0			
	650	GORK	4 S/F	0732.1	0733.3	3.1	22.0			
	204	IZMI	41 F	0732.5	0733.1	1.0	2300.0			
	200	HIRA	8 S	0732.5	0732.6	0.8	1100.0			0
	9100	GORK	46 C	0732.7	0741.0		16.0			
	9500	POTS	42 SER	0732.7	0733.1	12.0	35.0			
	9100	GORK	46 C	0732.7	0733.2	12.3	47.0			
	9300	KISV	2 S/F	0732.7	0733.2	10.0	56.0			
	2695	LEAR	8 S	0733.0E	0733.0		21.0			QL=2 ST=2 TYP=3
	600	HUMN	1 S	0733.0	0733.5	3.0	11.0	5.0		
	810	KRAK	2 S/F	0734.5	0735.0	1.8	27.0	8.0		
	950	GORK	4 S/F	0737.3	0741.1	5.2	20.0			
	650	GORK	4 S/F	0737.9	0740.7	4.5	15.0			
	2840	PEKG	2 S/F	0739.0	0741.3	4.0	24.0			
	600	HUMN	1 S	0739.5	0740.5	3.5	10.0	4.0		
	2950	GORK	2 S/F	0740.1	0741.4	1.9	20.0			
	810	KRAK	7 C	0741.0	0741.8	1.7	13.0	6.0		
	245	LEAR	8 S	0751.0E	0751.0		310.0			QL=2 ST=2 TYP=3
	950	GORK	1 S	0811.4	0811.6	0.7	2.0			
	650	GORK	4 S/F	0811.4	0811.7	0.7	11.0			
	100	GORK	4 S/F	0811.6	0813.6	2.5	170.0			
	2950	GORK	21 GRF	0829.4	0901.2	60.60	22.0			
	2950	GORK	1 S	0839.3	0840.1	1.6	7.0			
	2850	CRIM	1 S	0839.9	0840.0	0.5	8.0	2.0		
	2850	CRIM	20 GRF	0849.0	0855.5	44.0	32.0	14.0		
	3013	IZMI	26 FAL	0850.0	0855.5	35.0	23.0	12.0		
	9300	KISV	22 GRF	0851.5	0855.4	30.5	22.0			
	4995	LEAR	4 S/F	0852.0E	0855.0	8.00	50.0			QL=2 ST=2 TYP=3
	2950	GORK	45 C	0852.4	0855.4	8.1	18.0			
	2950	GORK	45 C	0852.4	0858.8		8.0			
	2695	LEAR	4 S/F	0853.0E	0854.0	3.00	27.0			QL=2 ST=2 TYP=3
	4995	SVTO	4 S/F	0853.0E	0855.0	10.00	63.0			QL=4 ST=3 TYP=3
	9100	GORK	45 C	0853.1	0855.4	8.4	14.0			
	9100	GORK	45 C	0853.1	0859.5		12.0			
	100	GORK	41 F	0853.9	0859.3	14.0	570.0			
	100	GORK	41 F	0853.9	0903.7		1585.0			
	950	GORK	4 S/F	0858.3	0859.2	2.1	22.0			
	650	GORK	4 S/F	0858.3	0858.7	1.9	13.0			
	245	LEAR	8 S	0903.0E	0903.0	2.00	180.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0903.0E	0903.0		160.0			QL=2 ST=2 TYP=3
	204	IZMI	41 F	0903.0	0903.5	0.7	500.0			
	200	GORK	4 S/F	0903.1	0903.5	0.8	330.0			
	9500	POTS	20 GRF	0947.0	0949.0	8.0	12.0			
	9300	KISV	2 S/F	0947.2	0948.2	5.9	14.0			
	15000	KISV	2 S/F	0947.3	0948.7	3.0	16.0			
	650	GORK	4 S/F	1052.3	1053.9	4.5	74.0			
	1470	POTS	25 R	1145.0	1155.3	12.0	22.0			
	127	TORN	47 GB	1147.5	1150.1	6.0	1000.0	80.0		
	113	POTS	4 S/F	1147.6U	1152.0	6.0U	200.0			
	30	POTS	4 S/F	1147.6	1150.0	8.1	4000.00			
	204	IZMI	8 S	1149.8	1150.0	0.5	1000.0			
	113	POTS	42 SER	1332.5	1337.5	6.7	175.0			
	1470	POTS	40 F	1345.0	1350.2	10.0	33.0			
	3000	POTS	40 F	1345.0	1352.7	10.0	16.0			
	9500	POTS	20 GRF	1345.0	1352.8	20.0	12.0			
	2800	OTTA	4 S/F	1346.0	1353.0	10.0	10.7	3.0		
	610	SGMR	8 S	1346.0E	1346.0		180.0			QL=2 ST=2 TYP=3
	113	POTS	4 S/F	1346.1	1352.2	12.4	2100.0			
	536	ONDR	45 C	1349.0	1352.5	9.5	44.0			
	30	POTS	4 S/F	1349.1	1350.0	8.9	4000.0U			
	33	UPIC	48 C	1349.2		9.1				

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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			
26	1415	SVTO	8 S	1350.0E	1350.0	U	57.0			QL=4 ST=2 TYP=3	
	410	SGMR	8 S	1351.0E	1352.0	2.0D	84.0			QL=4 ST=2 TYP=3	
	410	SVTO	8 S	1351.0E	1352.0	2.0D	58.0			QL=4 ST=2 TYP=3	
	127	TORN	47 GB	1351.4	1352.1	4.5	4100.0	400.0			
	245	SGMR	8 S	1352.0E	1352.0	U	72.0				QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1352.0E	1352.0	U	22.0				QL=4 ST=2 TYP=3
	2800	OTTA	31 ABS	1356.5	1416.0	41.0	9.0	4.0			
	536	ONDR	42 SER	1437.0	1543.8	70.0	143.0				
	2800	OTTA	4 S/F	1531.7	1539.9	11.8	62.7	12.0			
	2695	SVTO	4 S/F	1538.0E	1540.0	11.0D	61.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1538.0E	1539.0	11.0D	97.0				QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1538.0E	1539.0	502.0D	83.0				QL=4 ST=3 TYP=3
	245	SGMR	8 S	1542.0E	1542.0	1.0D	190.0				QL=2 ST=2 TYP=3
	245	SVTO	8 S	1542.0E	1542.0	2.0D	180.0				QL=2 ST=2 TYP=3
	410	SVTO	8 S	1543.0E	1544.0	1.0D	78.0				QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1543.0E	1543.0	497.0D	92.0				QL=4 ST=3 TYP=3
	610	SGMR	4 S/F	1543.0E	1543.0	497.0D	65.0				QL=2 ST=3 TYP=3
	2800	OTTA	29 PBI	1543.5	1543.5	300.0	34.0	17.0			
	2800	OTTA	4 S/F	1611.4	1618.0	22.1	132.0	26.0			
	2695	SVTO	4 S/F	1613.0E	1618.0	14.0D	150.0				QL=4 ST=2 TYP=3
	600	HUMN	47 GB	1613.5	1650.6	101.0	632.0	197.0			
	1415	SGMR	49 GB	1614.0E	1616.0	10.0D	1600.0				QL=4 ST=2 TYP=6
	4995	SGMR	4 S/F	1614.0E	1617.0	16.0D	180.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1614.0E	1617.0	19.0D	230.0				QL=4 ST=2 TYP=3
	1415	SVTO	49 GB	1614.0E	1616.0	11.0D	1600.0				QL=4 ST=2 TYP=6
	2695	SGMR	4 S/F	1615.0E	1618.0	7.0D	120.0				QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1615.0E	1617.0	15.0D	140.0				QL=2 ST=2 TYP=3
	245	SVTO	49 GB	1615.0E	1622.0	11.0D	7600.0				QL=2 ST=2 TYP=7
	8800	SVTO	4 S/F	1616.0E	1617.0	9.0D	110.0				QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1616.0E	1622.0	14.0D	10000.0				QL=2 ST=3 TYP=6
	410	SGMR	4 S/F	1616.0E	1623.0	14.0D	180.0				QL=4 ST=2 TYP=5
	610	SGMR	4 S/F	1616.0E	1617.0	14.0D	140.0				QL=2 ST=2 TYP=3
	410	SVTO	4 S/F	1616.0E	1623.0	11.0D	150.0				QL=4 ST=2 TYP=5
	15400	SGMR	4 S/F	1617.0E	1618.0	10.0D	79.0				QL=2 ST=2 TYP=3
	15400	SVTO	4 S/F	1617.0E	1618.0	10.0D	74.0				QL=4 ST=2 TYP=3
	610	SVTO	20 GRF	1620.0E	1622.0	15.0D	160.0				QL=2 ST=2 TYP=2
	2800	OTTA	20 GRF	1633.0	1641.6	15.7	11.3	5.0			
	610	SGMR	49 GB	1635.0E	1651.0	64.0D	2400.0				QL=4 ST=3 TYP=7
	410	SVTO	4 S/F	1639.0E	1640.0	3.0D	110.0				QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	1642.0E	1644.0	438.0D	61.0				QL=4 ST=1 TYP=3
	2695	PALE	4 S/F	1643.0E	1644.0	4.0D	95.0				QL=4 ST=2 TYP=3
	1415	PALE	4 S/F	1643.0E	1644.0	5.0D	76.0				QL=4 ST=2 TYP=3
	610	PALE	49 GB	1643.0E	1649.0	52.0D	2800.0				QL=4 ST=2 TYP=7
	410	PALE	8 S	1645.0E	1647.0	2.0D	34.0				QL=4 ST=3 TYP=3
	245	SVTO	4 S/F	1654.0E	1658.0	6.0D	190.0				QL=2 ST=2 TYP=5
	410	SVTO	4 S/F	1658.0E	1705.0	10.0D	420.0				QL=4 ST=2 TYP=3
	410	PALE	49 GB	1701.0E	1705.0	7.0D	530.0				QL=2 ST=2 TYP=6
	1415	SVTO	8 S	1704.0E	1705.0	2.0D	110.0				QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	1704.6	1714.0	19.1	31.2	6.0			
	2695	SVTO	8 S	1707.0E	1707.0	U	55.0				QL=4 ST=3 TYP=3
245	SGMR	49 GB	1720.0E	1724.0	10.0D	1700.0				QL=2 ST=2 TYP=7	
245	PALE	49 GB	1724.0E	1725.0	3.0D	1200.0				QL=2 ST=2 TYP=6	
245	PALE	49 GB	1726.0E	1738.0	38.0D	630.0				QL=2 ST=2 TYP=7	
410	PALE	4 S/F	1726.0E	1727.0	40.0D	39.0				QL=2 ST=2 TYP=3	
245	SGMR	49 GB	1735.0E	1738.0	11.0D	590.0				QL=2 ST=2 TYP=6	
245	PALE	8 S	1756.0E	1757.0	2.0D	450.0				QL=4 ST=2 TYP=3	
245	SGMR	4 S/F	1756.0E	1757.0	6.0D	490.0				QL=2 ST=2 TYP=3	
245	SGMR	4 S/F	1808.0E	1812.0	8.0D	80.0				QL=2 ST=3 TYP=3	
410	PALE	20 GRF	1810.0E	1812.0	8.0D	80.0				QL=4 ST=2 TYP=2	
410	SGMR	4 S/F	1810.0E	1812.0	7.0D	110.0				QL=2 ST=3 TYP=3	
610	SGMR	4 S/F	1810.0E	1812.0	6.0D	56.0				QL=2 ST=3 TYP=3	
2800	OTTA	20 GRF	1811.0	1812.3	9.8	10.7	4.0				
410	PALE	4 S/F	1926.0E	1929.0	5.0D	100.0				QL=4 ST=2 TYP=3	
410	SGMR	4 S/F	1926.0E	1930.0	5.0D	120.0				QL=4 ST=2 TYP=3	
200	HIRA	24 R	2000.0E	2220.0	800.0D	25.0	10.0			ML	
245	SGMR	49 GB	2104.0E	2104.0	2.0D	930.0				QL=4 ST=2 TYP=6	
2800	OTTA	4 S/F	2216.2	2218.0	7.1	22.7	7.0				
17000	NOBE	1 S	2254.7	2255.1	1.0	28.0				0,80,35GHz:0	
245	SGMR	8 S	2257.0E	2258.0	1.0D	170.0				QL=4 ST=2 TYP=3	



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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density (10 <sup>-22</sup> W/m <sup>2</sup> Hz)		Int	Remarks
							Peak	Mean		
26	245	LEAR	8 S	2258.0E	2258.0	U	240.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	2258.0E	2258.0	U	240.0			QL=4 ST=3 TYP=3
27	200	GORK	44 NS	0253.0E		547.0D		5.0		
	100	GORK	44 NS	0253.0E		547.0D		5.0		
	204	IZMI	43 NS	0600.0		360.0	10.0			
	33	UPIC	43 NS	0659.5		660.5D				
	127	TORN	43 NS	0825.0		462.0		9.0		V=1
	430	KRAK	43 NS	0829.5	1035.7U	204.0	180.0D	15.0		
	245	SGMR	44 NS	1024.0E	1117.0	350.0D	170.0			QL=4 ST=2 TYP=1
	245	LEAR	4 S/F	0148.0E	0150.0	3.0D	180.0			QL=2 ST=2 TYP=3
	200	HIRA	41 F	0148.2	0150.5	4.6	145.0			0
	245	PALE	8 S	0150.0E	0151.0	1.0D	190.0			QL=2 ST=2 TYP=3
	9100	GORK	23 GRF	0345.0U	0622.4	495.0D	35.0			
	2840	PEKG	45 C	0346.0	0349.8	22.0	454.1			
	9100	GORK	46 C	0348.0	0400.0		27.0			
	9100	GORK	46 C	0348.0	0349.6	15.0	115.0			
	2950	GORK	4 S/F	0348.0	0349.9	4.6	260.0			
	17000	NOBE	7 C	0349.4	0350.5	35.0	28.0			0,80,35GHz:0
	2695	LEAR	8 S	0350.0E	0351.0	2.0D	190.0			QL=2 ST=2 TYP=3
	8800	LEAR	4 S/F	0350.0E	0351.0	3.0D	100.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	0350.0E	0351.0	7.0D	190.0			QL=2 ST=2 TYP=3
	2950	GORK	29 PBI	0352.6	0352.6	75.2	29.0			
	2840	PEKG	29 PBI	0408.0		54.0	10.2			
	9300	KISV	46 C	0500.1	0501.0		15.0			
	9300	KISV	46 C	0500.1	0503.5	10.9	17.0			
	9300	KISV	46 C	0500.1	0502.7		8.0			
	15000	KISV	45 C	0501.7	0503.5	5.1	13.0			
	15000	KISV	45 C	0501.7	0502.6		10.0			
	260	ONDR	41 F	0530.0E	0903.8	660.0D	135.0			
	2950	GORK	21 GRF	0554.0	0625.3	70.4	9.0			
	204	IZMI	7 C	0618.0	0618.2	0.5	40.0			
	2840	PEKG	3 S	0618.0	0622.4	11.0	13.6			
	9300	KISV	22 GRF	0618.0	0622.5	21.7	21.0			
	15000	KISV	2 S/F	0618.5	0622.3	8.1	15.0			
	2950	GORK	2 S/F	0618.7	0622.4	6.1	10.0			
	2850	CRIM	1 S	0618.8	0622.5	7.7	14.0	5.0		
	3013	IZMI	22 GRF	0618.8	0622.5	13.0	10.0	7.0		
	9100	GORK	2 S/F	0642.0	0643.0	3.0	36.0			
	9300	KISV	4 S/F	0642.2	0642.7	5.8	33.0			
	15000	KISV	2 S/F	0642.3	0643.0	3.7	18.0			
	245	LEAR	8 S	0757.0E	0758.0	1.0D	58.0			QL=2 ST=2 TYP=3
	9300	KISV	22 GRF	0855.7	0859.7	11.8	11.0			
	650	GORK	2 S/F	0858.5	0859.0	0.9	3.0			
	950	GORK	2 S/F	0858.5	0858.6	0.8	6.0			
15400	LEAR	8 S	0929.0E	0929.0	1.0D	190.0			QL=2 ST=2 TYP=3	
204	IZMI	42 SER	0941.0	0946.0	6.0	98.0				
2950	GORK	21 GRF	0959.0	1043.7	120.0	14.0				
950	GORK	21 GRF	1028.6	1052.4	29.5	7.0				
650	GORK	23 GRF	1028.6	1052.4	32.8	16.0				
9300	KISV	22 GRF	1029.8	1034.7	28.6	15.0				
3013	IZMI	5 S	1032.5	1034.6	6.5	10.0	5.0			
536	ONDR	48 C	1032.6	1034.4	29.0	166.0				
410	SGMR	4 S/F	1033.0E	1033.0	3.0D	130.0			QL=4 ST=2 TYP=3	
610	SGMR	4 S/F	1033.0E	1034.0	3.0D	150.0			QL=4 ST=2 TYP=3	
410	SVTO	8 S	1033.0E	1033.0	U	82.0			QL=4 ST=2 TYP=3	
204	IZMI	42 SER	1033.0	1043.2	13.5	165.0				
600	HUMN	4 S/F	1033.0	1034.3	4.6	130.0	58.0			
100	GORK	46 C	1033.0	1040.4		40.0				
200	GORK	41 F	1033.0	1043.4		30.0D				
650	GORK	4 S/F	1033.0	1034.4	4.5	160.0				
810	KRAK	41 F	1033.0	1034.4	5.5	18.0	5.0			
2950	GORK	2 S/F	1033.0	1034.6	3.6	13.0				
100	GORK	46 C	1033.0	1034.7	7.8	115.0				
200	GORK	41 F	1033.0	1038.8	11.5	30.0D				
950	GORK	4 S/F	1033.3	1033.3	5.7	30.0				
245	SVTO	8 S	1038.0E	1038.0	U	78.0			QL=2 ST=2 TYP=3	
600	HUMN	27 RF	1041.4	1051.8	21.0	7.0	3.0			
33	UPIC	46 C	1049.6	1053.2	7.1					

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
27	1470	POTS	4 S/F	1052.5	1053.5	6.5	11.0			
	2950	GORK	2 S/F	1052.5	1053.6	4.3	10.0			
	3000	POTS	3 S	1052.5	1053.7	6.5	14.0			
	3013	IZMI	7 C	1053.0	1053.6	6.3	7.0	5.0		
	245	SVTO	8 S	1117.0E	1117.0	U	100.0			QL=2 ST=2 TYP=3
	1470	POTS	4 S/F	1409.0	1410.0	5.0	16.0			
	3000	POTS	4 S/F	1410.0	1410.5	1.2	9.0			
	9500	POTS	3 S	1432.5	1433.5	5.0	14.0			
	245	SGMR	8 S	1551.0E	1552.0	1.0D	410.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1551.0E	1552.0	1.0D	320.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1552.0E	1552.0	1.0D	54.0			QL=2 ST=2 TYP=3
	8800	SGMR	8 S	1552.0E	1552.0	1.0D	69.0			QL=2 ST=2 TYP=3
	4995	SGMR	8 S	1552.0E	1552.0	1.0D	46.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1552.0E	1552.0	1.0D	62.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1552.0E	1553.0	1.0D	53.0			QL=4 ST=2 TYP=3
	2800	OTTA	4 S/F	1552.0	1601.2	18.8	94.0	19.0		
	1415	SGMR	8 S	1559.0E	1600.0	2.0D	220.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	1559.0E	1601.0	4.0D	87.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1559.0E	1601.0	3.0D	120.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1600.0E	1600.0	1.0D	230.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1606.0E	1606.0	1.0D	54.0			QL=4 ST=2 TYP=3
	2800	OTTA	22 GRF	1824.5	1836.0	31.0	18.8	4.0		
	4995	PALE	20 GRF	1905.0E	1910.0	11.0D	150.0			QL=4 ST=2 TYP=2
	15400	PALE	4 S/F	1905.0E	1906.0	11.0D	140.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	1905.0E	1906.0	12.0D	250.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1905.0E	1906.0	15.0D	140.0			QL=2 ST=2 TYP=3
	8800	SGMR	4 S/F	1905.0E	1906.0	15.0D	240.0			QL=2 ST=2 TYP=3
	2800	OTTA	4 S/F	1905.2	1910.3	25.4	129.0	26.0		
	245	PALE	4 S/F	1906.0E	1910.0	7.0D	120.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1906.0E	1910.0	10.0D	130.0			QL=4 ST=2 TYP=5
	1415	PALE	4 S/F	1906.0E	1911.0	12.0D	160.0			QL=4 ST=2 TYP=5
	4995	SGMR	20 GRF	1906.0E	1910.0	14.0D	160.0			QL=4 ST=2 TYP=2
	2695	SGMR	4 S/F	1906.0E	1910.0	14.0D	150.0			QL=4 ST=2 TYP=5
	1415	SGMR	20 GRF	1906.0E	1911.0	12.0D	150.0			QL=4 ST=2 TYP=2
	610	PALE	4 S/F	1909.0E	1910.0	5.0D	100.0			QL=4 ST=2 TYP=3
	200	HIRA	24 R	2000.0E	2348.0	800.0D	12.0	5.0		WL
	245	PALE	8 S	2009.0E	2011.0	2.0D	200.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2009.0E	2009.0	2.0D	160.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2009.0E	2010.0	2.0D	180.0			QL=4 ST=2 TYP=3
	2800	OTTA	47 GB	2050.6	2058.2	29.0	745.0	149.0		
	200	HIRA	48 C	2055.9	2057.2	16.8	985.0	87.0		O
	4995	PALE	49 GB	2056.0E	2058.0	10.0D	1400.0			QL=4 ST=2 TYP=7
	15400	PALE	49 GB	2056.0E	2058.0	18.0D	3700.0			QL=4 ST=2 TYP=7
	8800	PALE	49 GB	2056.0E	2058.0	18.0D	3100.0			QL=4 ST=2 TYP=7
	2695	PALE	49 GB	2056.0E	2058.0	10.0D	710.0			QL=4 ST=2 TYP=7
	610	PALE	49 GB	2056.0E	2058.0	10.0D	4300.0			QL=4 ST=2 TYP=7
	4995	SGMR	49 GB	2056.0E	2058.0	18.0D	1400.0			QL=4 ST=2 TYP=6
1415	SGMR	4 S/F	2056.0E	2058.0	10.0D	470.0			QL=4 ST=2 TYP=3	
2695	SGMR	49 GB	2056.0E	2058.0	10.0D	800.0			QL=4 ST=2 TYP=6	
8800	SGMR	49 GB	2056.0E	2058.0	21.0D	3300.0			QL=4 ST=2 TYP=6	
15400	SGMR	49 GB	2056.0E	2058.0	25.0D	4000.0			QL=4 ST=2 TYP=6	
100	HIRA	48 C	2056.8		12.5	1000.0D				
1415	PALE	49 GB	2057.0E	2058.0	8.0D	490.0			QL=4 ST=2 TYP=7	
245	PALE	49 GB	2057.0E	2058.0	9.0D	650.0			QL=4 ST=2 TYP=7	
410	PALE	49 GB	2057.0E	2059.0	11.0D	700.0			QL=4 ST=2 TYP=7	
410	PALE	4 S/F	2116.0E	2117.0	3.0D	56.0			QL=4 ST=3 TYP=3	
2800	OTTA	3 S	2116.1	2117.1	2.2	16.7	5.0			
200	HIRA	42 SER	2127.7	2128.4	94.0	74.0			WR	
2695	PENT	3 S	2251.4	2252.2	6.6	16.7	3.0			
500	HIRA	46 C	2345.0E	2402.5	30.0D	33.0	12.0		WR	
28	200	GORK	43 NS	0247.0		553.0D	5.0			
	100	GORK	43 NS	0252.6		547.4D	5.0			
	33	UPIC	44 NS	0400.0E		840.0D				
	430	KRAK	44 NS	0714.0E	0922.5	343.0D	300.0D	4.0		
	127	TORN	44 NS	0820.0E		500.0D		4.0		V=1, DISTURBED
	100	HIRA	44 NS	2000.0E	0618.0	800.0D	52.0	17.0		
	200	HIRA	44 NS	2000.0E	0750.0	800.0D	17.0	10.0		MR
2840	PEKG	45 C	0013.0	0014.2	3.0	29.9				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
28	2695	PENT	4 S/F	0013.8	0014.4	2.2	31.7	6.0		
	500	HIRA	41 F	0028.0	0111.0	60.0	36.0			MR
	500	HIRA	46 C	0139.5	0155.3		153.0			SR
	500	HIRA	46 C	0139.5	0148.5	27.0	393.0	32.0		SR
	610	LEAR	8 S	0147.0E	0148.0	2.00	170.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0147.0E	0148.0	2.00	380.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0147.0E	0148.0	2.00	350.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0147.0E	0148.0	2.00	160.0			QL=4 ST=2 TYP=3
	410	LEAR	4 S/F	0152.0E	0154.0	13.00	170.0			QL=2 ST=2 TYP=3
	410	PALE	4 S/F	0153.0E	0154.0	10.00	170.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0154.0E	0157.0	7.00	200.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0154.0E	0157.0	13.00	210.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0154.0E	0155.0	13.00	39.0			QL=2 ST=3 TYP=3
	17000	NOBE	1 S	0246.4	0246.9	1.0	29.0			0,80,35GHz:0
	500	HIRA	42 SER	0253.8	0305.5	14.5	146.0			SR
	410	PALE	8 S	0254.0E	0255.0	1.00	58.0			QL=4 ST=2 TYP=3
	9100	GORK	23 GRF	0300.00	0427.0	540.00	25.0			
	650	GORK	4 S/F	0303.9	0305.3	2.0	65.0			
	1415	LEAR	8 S	0304.0E	0304.0	U	25.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0304.0E	0305.0	1.00	79.0			QL=2 ST=2 TYP=3
	2840	PEKG	5 S	0304.0	0305.0	4.0	10.3			
	950	GORK	4 S/F	0304.2	0305.2	3.3	20.0			
	100	GORK	41 F	0304.2	0409.6		1750.0			
	100	GORK	41 F	0304.2	0341.8	73.1	2920.0			
	100	GORK	41 F	0304.2	0358.9		10620.0			
	410	LEAR	8 S	0305.0E	0305.0	U	55.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0305.0E	0305.0	U	50.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0305.0E	0305.0	U	75.0			QL=4 ST=2 TYP=3
	650	GORK	21 GRF	0319.6	0412.1	66.8	3.0			
	950	GORK	23 GRF	0324.7	0333.5	20.6	3.0			
	500	HIRA	41 F	0325.0	0342.3	21.5	1950.0			SR
	650	GORK	4 S/F	0328.1	0328.8	1.7	17.0			
	950	GORK	2 S/F	0328.3	0328.8	1.5	6.0			
	950	GORK	46 C	0334.0	0338.0	11.0	195.0			
	950	GORK	46 C	0334.0	0343.6		400.0			
	650	GORK	46 C	0334.1	0338.5	11.4	270.0			
	650	GORK	46 C	0334.1	0344.6		320.0			
	2840	PEKG	45 C	0335.0	0344.1	19.0	125.8			
	410	PALE	49 GB	0336.0E	0342.0	9.00	3800.0			QL=4 ST=2 TYP=6
	610	PALE	4 S/F	0336.0E	0342.0	9.00	380.0			QL=4 ST=2 TYP=5
	2950	GORK	4 S/F	0336.5	0344.0	11.9	84.0			
	100	HIRA	41 F	0336.7	0338.9	8.6	970.0			
	1415	PALE	8 S	0338.0E	0338.0	U	60.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0339.0	0344.0		115.0			
	9100	GORK	46 C	0339.0	0342.9		120.0			
	9100	GORK	46 C	0339.0	0340.9	15.0	90.0			
	17000	NOBE	1 S	0339.3	0343.9	15.0	53.0			L
	35000	NOBE	1 S	0339.3	0343.9	12.0	53.0			0,80GHz:0
	200	GORK	41 F	0339.4	0359.7		690.0			
	200	GORK	41 F	0339.4	0342.7	38.3	860.0			
	200	HIRA	42 SER	0339.6	0400.0	34.0	780.0			MR
	4995	PALE	4 S/F	0340.0E	0344.0	5.00	110.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0342.0E	0344.0	3.00	200.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0343.0E	0344.0	1.00	62.0			QL=4 ST=2 TYP=3
410	LEAR	8 S	0359.0E	0359.0	U	84.0			QL=2 ST=2 TYP=3	
245	LEAR	4 S/F	0359.0E	0408.0	10.00	110.0			QL=2 ST=2 TYP=3	
650	GORK	4 S/F	0359.2	0359.4	0.9	26.0				
950	GORK	1 S	0359.2	0359.5	0.9	4.0				
245	LEAR	8 S	0408.0E	0408.0	U	110.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	0408.0E	0408.0	1.00	100.0			QL=4 ST=2 TYP=3	
950	GORK	4 S/F	0409.2E	0409.3	3.40	20.0				
650	GORK	4 S/F	0409.2E	0409.3	2.90	40.0				
245	LEAR	8 S	0413.0E	0414.0	1.00	200.0			QL=2 ST=2 TYP=3	
245	PALE	8 S	0413.0E	0414.0	1.00	200.0			QL=4 ST=2 TYP=3	
9100	GORK	46 C	0419.9	0423.0		22.0				
9100	GORK	46 C	0419.9	0421.3	5.6	8.0				
35000	NOBE	1 S	0422.1	0422.8	1.5	96.0			0,80GHz:0	
17000	NOBE	1 S	0422.1	0422.8	2.0	24.0			0	
245	LEAR	8 S	0539.0E	0539.0	U	99.0			QL=2 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean	Int	Remarks
28	245	SVTO	8 S	0539.0E	0539.0		95.0			
	260	ONDR	41 F	0600.0	1451.6		310.0			QL=4 ST=2 TYP=3
	200	GORK	46 C	0606.0	0608.2	640.0	30.00			
	200	GORK	46 C	0606.0	0606.9	2.8	13.0			
	100	GORK	4 S/F	0606.3	0608.2	2.7	580.0			
	113	POTS	4 S/F	0607.5	0608.3	1.6	200.0			
	30	POTS	4 S/F	0607.5	0608.3	1.6	1200.0U			
	610	LEAR	8 S	0614.0E	0614.0		120.0			QL=2 ST=2 TYP=3
	610	SVTO	8 S	0614.0E	0614.0		200.0			QL=2 ST=2 TYP=3
	9100	GORK	46 C	0614.1	0614.4	9.4	13.0			
	650	GORK	4 S/F	0614.1	0614.4	0.6	80.0			
	9100	GORK	46 C	0614.1	0617.7		40.0			
	9300	KISV	23 GRF	0614.2	0622.1	11.8	8.0			
	950	GORK	1 S	0614.2	0614.4	0.4	2.0			
	9300	KISV	2 S/F	0614.3	0614.5	2.2	16.0			
	536	ONDR	41 F	0615.0		600.0				
	9300	KISV	4 S/F	0617.4	0617.8	3.6	38.0			
	15000	KISV	2 S/F	0617.6	0617.8	4.0	29.0			
	500	HIRA	42 SER	0658.8	0659.0	5.0	48.0			MR
	950	GORK	45 C	0658.9	0659.1	3.5	6.0			
	950	GORK	45 C	0658.9	0701.8		5.0			
	650	GORK	46 C	0659.0	0659.1	3.4	20.0			
	650	GORK	46 C	0659.0	0701.8		110.0			
	600	HUMN	2 S/F	0701.0	0701.6	1.0	40.0	15.0		
	9300	KISV	22 GRF	0701.3	0707.7	19.0	10.0			
	9500	POTS	20 GRF	0705.0	0705.8	5.0	6.0			
	9500	POTS	20 GRF	0729.0	0730.7	8.0	6.0			
	9300	KISV	22 GRF	0744.7	0753.8	17.5	23.0			
	2950	GORK	21 GRF	0748.5	1018.0	240.9	16.0			
	3000	POTS	1 S	0752.0	0756.8	8.0	7.0			
	9500	POTS	3 S	0753.0	0753.8	8.0	10.0			
	100	GORK	41 F	0847.5	0851.5	21.9	230.0			
	100	GORK	41 F	0847.5	0905.9		470.0			
	600	HUMN	2 S/F	0848.0	0849.0	1.5	25.0	8.0		
	204	IZMI	42 SER	0849.0	0851.5	6.0	110.0			
	200	GORK	41 F	0851.0	0851.5	20.2	30.00			
	200	GORK	41 F	0851.0	0910.8		80.0			
	9300	KISV	29 PBI	0856.4	0912.0	47.2	41.0			
	9300	KISV	47 GB	0856.4	0905.8	15.6	452.0			
	9300	KISV	47 GB	0856.4	0904.9		316.0			
	15000	KISV	29 PBI	0857.4	0908.0	40.0	44.0			
	15000	KISV	47 GB	0857.4	0905.8	10.6	509.0			
	3013	IZMI	45 C	0859.5	0905.7	17.3	156.0			
	410	LEAR	4 S/F	0900.0E	0903.0	7.00	100.0			QL=2 ST=2 TYP=5
	4995	SVTO	4 S/F	0900.0E	0905.0	9.00	300.0			QL=4 ST=2 TYP=5
	8800	SVTO	4 S/F	0900.0E	0905.0	9.00	400.0			QL=4 ST=2 TYP=5
	2950	GORK	4 S/F	0900.0	0905.0	11.1	122.0			
	4995	LEAR	4 S/F	0900.0E	0905.0	10.00	260.0			QL=2 ST=2 TYP=5
	2695	LEAR	4 S/F	0900.0E	0905.0	10.00	190.0			QL=2 ST=2 TYP=5
	15400	LEAR	4 S/F	0900.0E	0905.0	10.00	270.0			QL=2 ST=2 TYP=5
	8800	LEAR	4 S/F	0900.0E	0905.0	10.00	320.0			QL=2 ST=2 TYP=5
	9500	POTS	4 S/F	0900.0	0905.0	15.0	396.0			
	2850	CRIM	45 C	0900.0	0905.0	182.0				
	3000	POTS	4 S/F	0900.0	0905.6	15.0	168.0			
2850	CRIM	29 PBI	0900.0	0906.6	53.4	15.0				
9100	GORK	4 S/F	0900.0	0905.8	12.0	425.0				
2850	CRIM	45 C	0900.0	0905.8	240.0	80.0				
1470	POTS	4 S/F	0900.0	0905.9	15.0	127.0				
430	KRAK	46 C	0901.5	0904.5	10.5	300.00	31.0			
245	LEAR	4 S/F	0902.0E	0905.0	5.00	220.0			QL=2 ST=2 TYP=5	
245	SVTO	4 S/F	0902.0E	0903.0	7.00	160.0			QL=4 ST=2 TYP=3	
650	GORK	46 C	0902.6	0905.9		320.0				
650	GORK	46 C	0902.6	0904.9	9.4	320.0				
600	HUMN	45 C	0902.7	0905.6	9.4	180.0	31.0			
950	GORK	23 GRF	0902.8	0908.9	14.3	8.0				
1415	LEAR	4 S/F	0903.0E	0905.0	4.00	120.0			QL=2 ST=2 TYP=3	
410	SVTO	4 S/F	0903.0E	0905.0	3.00	83.0			QL=4 ST=2 TYP=5	
2695	SVTO	4 S/F	0903.0E	0905.0	4.00	210.0			QL=4 ST=2 TYP=3	
15400	SVTO	4 S/F	0903.0E	0905.0	897.00	290.0			QL=4 ST=1 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean			
28	810	KRAK	45 C	0903.6	0905.0	6.5	113.0	24.0			
	610	LEAR	4 S/F	0904.0E	0905.0	3.0D	360.0			QL=2 ST=2 TYP=3	
	1415	SVTO	8 S	0904.0E	0905.0	2.0D	140.0			QL=4 ST=2 TYP=3	
	610	SVTO	8 S	0904.0E	0905.0	2.0D	330.0			QL=2 ST=2 TYP=3	
	950	GORK	46 C	0904.5	0906.2	3.4	95.0				
	950	GORK	46 C	0904.5	0907.6		45.0				
	808	ONDR	45 C	0905.0	0905.4	5.0	53.0				
	245	LEAR	4 S/F	0907.0E	0909.0	3.0D	190.0				QL=2 ST=2 TYP=3
	410	LEAR	8 S	0908.0E	0910.0	2.0D	97.0				QL=2 ST=2 TYP=3
	610	LEAR	8 S	0908.0E	0908.0	2.0D	140.0				QL=2 ST=2 TYP=3
	9100	GORK	29 PBI	0912.0	0912.0	24.0	27.0				
	410	LEAR	8 S	0922.0E	0924.0	2.0D	140.0				QL=2 ST=2 TYP=3
	410	LEAR	4 S/F	0925.0E	0927.0	4.0D	170.0				QL=2 ST=2 TYP=3
	3013	IZMI	41 F	1003.0	1014.0	21.5	68.0				
	9300	KISV	47 GB	1008.4	1012.4	9.3	348.0				
	9300	KISV	29 PBI	1008.4	1017.7	27.2	41.0				
	15000	KISV	4 S/F	1008.5	1012.4	9.0	233.0				
	15000	KISV	29 PBI	1008.5	1017.5	18.5	22.0				
	15400	SVTO	4 S/F	1010.0E	1012.0	9.0D	200.0				QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1010.0E	1012.0	8.0D	320.0				QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1010.0E	1012.0	7.0D	270.0				QL=4 ST=2 TYP=3
	9500	POTS	4 S/F	1010.0	1012.4	47.0	270.0				
	9100	GORK	4 S/F	1010.5	1012.3	7.5	300.0				
	600	HUMN	45 C	1010.7	1012.7	6.8	21.0	9.0			
	2850	CRIM	45 C	1010.8	1014.0		88.0				
	3000	POTS	4 S/F	1010.8	1014.0		74.0				
	2850	CRIM	29 PBI	1010.8	1017.0	33.0	15.0				
	650	GORK	4 S/F	1010.8	1015.1	6.2	90.0				
	2850	CRIM	45 C	1010.8	1012.8	6.2	91.0	27.0			
	2950	GORK	46 C	1010.9	1014.1		72.0				
	2950	GORK	46 C	1010.9	1011.9	6.6	70.0				
	810	KRAK	45 C	1010.9	1014.9	6.5	77.0	34.0			
	950	GORK	46 C	1011.0	1015.0		65.0				
	1415	SVTO	4 S/F	1011.0E	1011.0	5.0D	65.0				QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1011.0E	1011.0	5.0D	75.0				QL=4 ST=2 TYP=3
	1470	POTS	4 S/F	1011.0	1012.0	14.0	65.0				
	808	ONDR	45 C	1011.0	1015.1	7.0	74.0				
	950	GORK	46 C	1011.0	1013.2	8.2	50.0				
	430	KRAK	46 C	1011.5	1015.7	10.0	300.0D	13.0			
	200	GORK	4 S/F	1012.0	1012.2	0.5	30.0D				
	204	IZMI	27 RF	1015.0	1024.0	20.0	6.0	3.0			
	650	GORK	30 PBI	1017.0	1017.0	55.6	7.0				
	9100	GORK	29 PBI	1018.0	1018.0	39.0	27.0				
	600	HUMN	27 RF	1023.0	1034.7	23.0	15.0	4.0			
	430	KRAK	3 S	1025.5	1036.3	17.5	59.0	26.0			
	650	GORK	5 S	1032.2	1035.2	5.5	18.0				
	2850	CRIM	1 S	1206.2	1206.8	0.7	8.0	3.0			
	1470	POTS	4 S/F	1206.5	1206.7	1.5	16.0				
	3000	POTS	1 S	1207.0	1207.1	1.0	4.0				
	15400	SVTO	4 S/F	1208.0E	1253.0	58.0D	70.0				QL=4 ST=2 TYP=3
9500	POTS	29 PBI	1245.0	1253.0	75.0	62.0					
3000	POTS	4 S/F	1245.0	1249.8	25.0	77.0					
810	KRAK	49 GB	1245.3	1306.0U	21.5D	200.0D	80.0D				
808	ONDR	46 C	1245.4	1258.6	16.5	285.0					
2850	CRIM	45 C	1246.0	1253.2		60.0					
2850	CRIM	29 PBI	1246.0	1256.8	33.2	15.0					
2850	CRIM	45 C	1246.0	1259.9	20.8	113.0	38.0				
2800	OTTA	22 GRF	1246.1	1249.9	46.5	96.5	19.0				
1470	POTS	4 S/F	1246.5	1249.9	23.5	89.0					
40	POTS	42 SER	1246.7	1250.5	7.5	11000.0					
4995	SVTO	20 GRF	1247.0E	1253.0	18.0D	73.0				QL=4 ST=2 TYP=2	
2695	SVTO	4 S/F	1247.0E	1249.0	10.0D	94.0				QL=4 ST=2 TYP=3	
8800	SVTO	4 S/F	1247.0E	1249.0	18.0D	67.0				QL=4 ST=2 TYP=3	
2695	SGMR	4 S/F	1247.0E	1249.0	673.0D	100.0				QL=4 ST=1 TYP=3	
8800	SGMR	4 S/F	1247.0E	1253.0	673.0D	68.0				QL=4 ST=1 TYP=5	
600	HUMN	4 S/F	1247.3	1257.7	14.5	636.0	156.0				
1415	SVTO	4 S/F	1248.0E	1249.0	9.0D	83.0				QL=4 ST=2 TYP=3	
15400	SVTO	4 S/F	1248.0E	1253.0	18.0D	70.0				QL=4 ST=2 TYP=3	
4995	SGMR	4 S/F	1248.0E	1253.0	672.0D	69.0				QL=4 ST=1 TYP=5	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean			
28	1415	SGMR	4	S/F	1248.0E	1249.0	672.00	76.0		QL=4 ST=1 TYP=3	
	15400	SGMR	4	S/F	1248.0E	1253.0	672.00	77.0		QL=4 ST=1 TYP=3	
	430	KRAK	46	C	1249.7	1257.7	8.50	300.00	50.0		
	610	SVTO	8	S	1250.0E	1252.0	2.00	83.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1250.0E	1250.0	U	110.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	1250.0E	1250.0	U	78.0			QL=2 ST=2 TYP=3
	234	POTS	42	SER	1250.0	1250.4	10.0	700.0			
	113	POTS	42	SER	1250.0	1250.5	7.2	1400.0			
	600	HUMN	41	F	1304.5	1308.0	14.0	20.0			
	1415	SVTO	8	S	1323.0E	1324.0	1.00	180.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1324.0E	1324.0	U	160.0			QL=2 ST=2 TYP=3
	1470	POTS	4	S/F	1324.0	1324.4	1.0	132.0			
	2800	OTTA	3	S	1327.9	1328.3	2.5	36.8	7.0		
	40	POTS	42	SER	1332.5	1332.6	5.7	6700.0			
	600	HUMN	1	S	1338.0	1338.5	1.0	24.0	7.0		
	1470	POTS	3	S	1427.0	1428.4	3.0	19.0			
	3000	POTS	3	S	1427.5	1428.3	1.5	22.0			
	245	SVTO	49	GB	1451.0E	1451.0	1.00	2300.0			QL=2 ST=2 TYP=6
	234	POTS	41	F	1451.0	1451.4	4.6	12000.0			
	113	POTS	41	F	1451.4	1451.4U	4.4	4200.00			
	30	POTS	4	S/F	1451.4	1451.5U	0.9	4000.00			
	600	HUMN	2	S/F	1535.0	1536.0	2.0	45.0	13.0		
	8800	SGMR	8	S	1710.0E	1711.0	1.00	97.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	1711.0E	1711.0	U	79.0			QL=4 ST=2 TYP=3
	2800	OTTA	22	GRF	1825.8	1832.2	21.2	35.6	7.0		
	8800	SGMR	4	S/F	1828.0E	1828.0	6.00	50.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1828.0E	1828.0	6.00	73.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1831.0E	1831.0	U	33.0			QL=4 ST=2 TYP=3
1415	PALE	4	S/F	1831.0E	1831.0	1439.00	50.0			QL=4 ST=2 TYP=3	
610	PALE	4	S/F	1834.0E	1837.0	6.00	130.0			QL=4 ST=3 TYP=3	
2800	OTTA	22	GRF	2229.1	2232.3	15.2	15.1	3.0			
29	410	LEAR	44	NS	0008.0E	0033.0	1432.00	68.0			QL=2 ST=1 TYP=1
	200	GORK	43	NS	0242.0		558.00		5.0		
	100	GORK	44	NS	0251.0E		549.00		5.0		
	204	IZMI	43	NS	0600.0		360.0	10.0			
	127	TORN	44	NS	0620.0E		510.00		75.0		V=1
	430	KRAK	44	NS	0650.0E	0938.8	372.00	260.00	17.0		
	245	SVTO	44	NS	0901.0E	0944.0	389.00	130.0			QL=2 ST=2 TYP=1
	245	PALE	44	NS	1952.0E	2005.0	522.00	240.0			QL=4 ST=2 TYP=1
	100	HIRA	44	NS	2000.0E	2048.0	790.00	110.0	33.0		
	200	HIRA	44	NS	2000.0E	0223.0	790.00	76.0	40.0		MR
	245	LEAR	44	NS	2339.0E	0857.0	616.00	210.0			QL=2 ST=2 TYP=1
	15400	LEAR	8	S	0000.0E	0001.0	1.00	190.0			QL=2 ST=2 TYP=3
	17000	NOBE	7	C	0053.4	0054.9	15.0	48.0			0,80,35GHz:0
	8800	LEAR	4	S/F	0054.0E	0054.0	4.00	84.0			QL=2 ST=2 TYP=3
	15400	LEAR	4	S/F	0054.0E	0054.0	5.00	70.0			QL=2 ST=2 TYP=3
	8800	PALE	4	S/F	0054.0E	0055.0	3.00	110.0			QL=4 ST=2 TYP=3
	500	HIRA	46	C	0133.2	0134.4	2.0	445.0			SR
	410	LEAR	8	S	0134.0E	0134.0	U	270.0			QL=2 ST=3 TYP=3
	610	LEAR	8	S	0134.0E	0134.0	U	76.0			QL=2 ST=2 TYP=3
	410	PALE	8	S	0134.0E	0134.0	U	210.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0201.0E	0201.0	U	130.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	0201.0E	0201.0	U	85.0			QL=4 ST=2 TYP=3
	500	HIRA	42	SER	0230.0	0318.0	62.0	145.0			MR
	200	GORK	41	F	0248.2	0300.2	27.7	320.0			
	200	GORK	41	F	0248.2	0315.7		645.0			
	9100	GORK	23	GRF	0300.0E	0845.0	540.00	25.0			
	950	GORK	21	GRF	0303.0E	0330.0	44.60	9.0			
	650	GORK	23	GRF	0303.0E	0325.8	91.20	6.0			
610	LEAR	8	S	0316.0E	0317.0	2.00	54.0			QL=2 ST=2 TYP=3	
650	GORK	46	C	0316.8	0317.0	2.0	30.0				
950	GORK	46	C	0316.8	0317.0	1.8	10.0				
950	GORK	46	C	0316.8	0318.1		10.0				
650	GORK	46	C	0316.8	0317.9		40.0				
410	LEAR	8	S	0317.0E	0318.0	1.00	490.0			QL=2 ST=2 TYP=3	
610	PALE	8	S	0317.0E	0317.0	1.00	54.0			QL=4 ST=2 TYP=3	
410	PALE	8	S	0317.0E	0318.0	1.00	360.0			QL=4 ST=2 TYP=3	
245	LEAR	8	S	0318.0E	0318.0	U	39.0			QL=2 ST=2 TYP=3	

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Flux Density Mean (W/m <sup>2</sup> Hz)	Int	Remarks
29	2950	GORK	1 S	0327.3	0329.0	4.5	6.0			
	9100	GORK	3 S	0413.3	0415.1	5.8	68.0			
	17000	NOBE	1 S	0414.4	0415.0	1.5	19.0			0,80,35GHz:0
	9100	GORK	46 C	0424.9	0429.0		150.0			
	9100	GORK	46 C	0424.9	0443.0		23.0			
	9100	GORK	46 C	0424.9	0426.1	22.6	12.0			
	9100	GORK	46 C	0424.9	0440.9		30.0			
	17000	NOBE	40 F	0428.9	0429.4	5.0	29.0			0,80,35GHz:0
	2950	GORK	20 GRF	0429.0	0429.4	8.0	4.0			
	9100	GORK	46 C	0518.4	0519.0	6.0	40.0			
	9100	GORK	46 C	0518.4	0523.5		10.0			
	9300	KISV	4 S/F	0518.5	0519.3	4.0	42.0			
	9300	KISV	23 GRF	0518.5	0525.7	14.7	7.0			
	15000	KISV	2 S/F	0518.8	0519.2	2.8	11.0			
	2950	GORK	1 S	0521.5	0522.5	3.3	5.0			
	9300	KISV	2 S/F	0523.1	0523.5	1.9	11.0			
	410	LEAR	8 S	0533.0E	0534.0	2.0D	64.0			QL=2 ST=2 TYP=3
	2950	GORK	1 S	0554.0	0554.6	3.0	4.0			
	260	ONDR	41 F	0600.0	1543.4	620.0D	132.0			
	9300	KISV	2 S/F	0600.0	0600.6	3.0	8.0			
	536	ONDR	41 F	0635.0	1105.4	570.0	30.0			
	100	GORK	41 F	0646.6	0711.8		790.0			
	100	GORK	41 F	0646.6	0658.8	42.2	110.0			
	9500	POTS	20 GRF	0704.0	0718.5	36.0	15.0			
	2850	CRIM	21 GRF	0758.0	0808.5	53.0	16.0	5.0		
	410	LEAR	8 S	0801.0E	0801.0	1.0D	60.0			QL=2 ST=2 TYP=3
	3013	IZMI	22 GRF	0802.0	0812.5	13.0	13.0	8.0		
	950	GORK	21 GRF	0811.6	0827.6	19.2	3.0			
	2850	CRIM	1 S	0812.1	0812.4	1.8	13.0	4.0		
	950	GORK	1 S	0812.1	0812.4	0.7	4.0			
	650	GORK	21 GRF	0813.8	0939.6	147.5	9.0			
	245	LEAR	8 S	0816.0E	0816.0	1.0D	150.0			QL=2 ST=2 TYP=3
	245	SVTO	4 S/F	0816.0E	0816.0	944.0D	140.0			QL=2 ST=1 TYP=3
	3013	IZMI	5 S	0825.5	0826.8	4.2	24.0	12.0		
	3000	POTS	3 S	0826.0	0826.5	4.0	13.0			
	950	GORK	3 S	0826.1	0826.8	1.5	15.0			
	2850	CRIM	1 S	0826.2	0826.8	2.0	28.0	9.0		
	650	GORK	2 S/F	0826.3	0826.3	1.1	10.0			
	245	LEAR	49 GB	0827.0E	0827.0	U	520.0			QL=2 ST=2 TYP=6
	245	SVTO	49 GB	0827.0E	0827.0	U	540.0			QL=2 ST=2 TYP=6
	204	IZMI	42 SER	0834.5	0835.3	2.5	180.0			
	245	LEAR	8 S	0835.0E	0835.0	U	130.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0835.0E	0835.0	U	130.0			QL=2 ST=2 TYP=3
	33	UPIC	8 S	0835.2	0835.4	0.4				
	245	LEAR	8 S	0847.0E	0847.0	U	59.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0847.0E	0847.0	1.0D	65.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0909.0E	0910.0	2.0D	110.0			QL=2 ST=2 TYP=3
	15000	KISV	2 S/F	0920.3	0920.6	1.1	17.0			
	245	LEAR	8 S	0926.0E	0926.0	1.0D	53.0			QL=2 ST=2 TYP=3
	3013	IZMI	5 S	0930.0	0932.7	7.0	7.0	5.0		
2950	GORK	2 S/F	0931.5	0932.8	2.8	10.0				
2850	CRIM	1 S	0931.8	0932.8	1.5	14.0	4.0			
950	GORK	20 GRF	0936.0	0940.2	16.4	4.0				
410	LEAR	4 S/F	0937.0E	0939.0	3.0D	77.0			QL=2 ST=2 TYP=3	
15000	KISV	2 S/F	0937.6	0939.5	5.0	15.0				
600	HUMN	27 RF	0938.0	0946.0	15.0	5.0	2.0			
9500	POTS	2 S/F	0939.0	0939.5	2.5	10.0				
3000	POTS	1 S	0939.0	0939.5	3.0	5.0				
1470	POTS	1 S	0939.0	0939.9	3.0	4.0				
9300	KISV	2 S/F	0939.1	0939.6	2.2	11.0				
2950	GORK	1 S	0939.3	0939.7	1.8	7.0				
245	LEAR	8 S	0943.0E	0944.0	2.0D	120.0			QL=2 ST=2 TYP=3	
33	UPIC	45 C	0943.2	0944.2	1.3					
410	LEAR	8 S	0946.0E	0946.0	U	34.0			QL=2 ST=2 TYP=3	
650	GORK	4 S/F	0946.3	0946.6	1.2	12.0				
245	LEAR	8 S	0947.0E	0948.0	1.0D	120.0			QL=2 ST=2 TYP=3	
9300	KISV	22 GRF	0948.1	0959.0		10.0				
9300	KISV	22 GRF	0948.1	0951.8	23.0	10.0				
950	GORK	20 GRF	1009.8	1018.4	23.7	3.0				

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean		
29	100	GORK	41 F	1025.4	1030.2		110.0			
	100	GORK	41 F	1025.4	1026.5	14.4	30.0			
	204	IZMI	41 F	1025.5	1027.0	2.0	220.0			
	204	IZMI	7 C	1048.0	1050.6	2.8	65.0	30.0		
	33	UPIC	4 S/F	1225.7	1226.0	0.6				
	9300	KISV	22 GRF	1240.7	1244.9	9.8	10.0			
	9500	POTS	3 S	1316.5	1317.6	8.5	30.0			
	9500	POTS	20 GRF	1411.0	1413.0	9.0	8.0			
	8800	SGMR	8 S	1457.0E	1458.0	1.0D	140.0			QL=4 ST=3 TYP=3
	15400	SGMR	8 S	1457.0E	1457.0	1.0D	87.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1457.0E	1457.0	1.0D	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1918.0E	1918.0	1.0D	72.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1931.0E	1931.0	U	110.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2009.0E	2009.0	1.0D	64.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	2036.0E	2038.0	4.0D	210.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2036.0E	2038.0	3.0D	160.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	2036.0E	2036.0	2.0D	61.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	2036.0E	2036.0	3.0D	59.0			QL=4 ST=2 TYP=3
	2695	SGMR	4 S/F	2036.0E	2038.0	5.0D	190.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	2036.0E	2038.0	5.0D	210.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	2036.0E	2037.0	3.0D	90.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	2036.0E	2038.0	4.0D	140.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	2036.0E	2038.0	204.0D	180.0			QL=4 ST=1 TYP=3
	15400	PALE	4 S/F	2036.0E	2037.0	204.0D	97.0			QL=4 ST=1 TYP=3
	2800	OTTA	3 S	2036.3	2038.3	5.5	194.0	39.0		
	2800	OTTA	29 PBI	2041.8	2041.8	160.0	22.4	11.0		
	8800	SGMR	4 S/F	2102.0E	2103.0	8.0D	78.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2103.0E	2104.0	4.0D	89.0			QL=4 ST=2 TYP=3
	15400	PALE	4 S/F	2103.0E	2104.0	3.0D	66.0			QL=4 ST=2 TYP=3
	100	HIRA	42 SER	2208.0	2238.7	33.0	630.0			
245	LEAR	4 S/F	2256.0E	2258.0	3.0D	170.0			QL=2 ST=2 TYP=3	
245	LEAR	4 S/F	2300.0E	2300.0	3.0D	95.0			QL=2 ST=2 TYP=3	
500	HIRA	23 GRF	2319.0	2429.0	110.0	30.0	7.0		0	
245	LEAR	4 S/F	2329.0E	2330.0	5.0D	140.0			QL=2 ST=2 TYP=3	
245	LEAR	8 S	2338.0E	2338.0	U	93.0			QL=2 ST=2 TYP=3	
30	410	LEAR	44 NS	0008.0E	0033.0	26.0D	68.0			QL=2 ST=2 TYP=1
	410	PALE	44 NS	0028.0E	0029.0	17.0D	78.0			QL=4 ST=2 TYP=1
	100	GORK	44 NS	0251.0E		549.0D		5.0		
	200	GORK	44 NS	0251.5E		548.5D		5.0		
	204	IZMI	43 NS	0600.0		360.0	50.0			
	430	KRAK	44 NS	0653.0E	0831.7	342.0D	89.0			
	127	TORN	44 NS	0710.0E		470.0D		15.0		
	245	SVTO	44 NS	0837.0E	0925.0	336.0D	180.0	30.0		V=1
	245	PALE	44 NS	1845.0E	2123.0	534.0D	260.0			QL=4 ST=2 TYP=1
	100	HIRA	44 NS	2000.0E	2100.0	200.0D	230.0	80.0		
	200	HIRA	44 NS	2000.0E	2113.0	790.0D	86.0	23.0		SR
	245	LEAR	44 NS	2251.0E	2317.0	124.0D	120.0			QL=2 ST=2 TYP=1
	8800	LEAR	4 S/F	0136.0E	0137.0	3.0D	57.0			QL=2 ST=2 TYP=3
	15400	LEAR	8 S	0136.0E	0137.0	2.0D	140.0			QL=2 ST=2 TYP=3
	8800	PALE	4 S/F	0136.0E	0137.0	3.0D	72.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0136.0E	0136.0	1.0D	78.0			QL=4 ST=2 TYP=3
	17000	NOBE	7 C	0136.0	0136.6	3.0	72.0			0,80,35GHz:0
	2840	PEKG	45 C	0155.0	0157.4	5.0	32.9			
	100	HIRA	48 C	0155.4	0156.8	3.3	11000.0			WR
	245	LEAR	4 S/F	0156.0E	0159.0	5.0D	490.0			QL=2 ST=2 TYP=5
	610	LEAR	49 GB	0156.0E	0157.0	3.0D	1300.0			QL=2 ST=2 TYP=6
	15400	LEAR	8 S	0156.0E	0157.0	2.0D	160.0			QL=2 ST=2 TYP=3
	8800	LEAR	8 S	0156.0E	0157.0	2.0D	110.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0156.0E	0157.0	1.0D	18.0			QL=2 ST=2 TYP=3
	410	PALE	49 GB	0156.0E	0156.0	1.0D	570.0			QL=4 ST=2 TYP=6
	8800	PALE	8 S	0156.0E	0157.0	1.0D	110.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0156.0E	0157.0	1324.0D	80.0			QL=2 ST=1 TYP=3
	200	HIRA	46 C	0156.1	0156.2	3.3	540.0			MR
	500	HIRA	46 C	0156.5	0156.8	3.6	990.0			SR
	35000	NOBE	7 C	0156.8	0157.3	2.0	107.0			L,80GHz:0
17000	NOBE	7 C	0156.8	0157.3	2.0	140.0			L	
4995	PALE	8 S	0157.0E	0157.0	U	65.0			QL=4 ST=2 TYP=3	
610	PALE	49 GB	0157.0E	0157.0	1323.0D	860.0			QL=4 ST=1 TYP=6	



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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 <sup>2</sup> Hz)	Mean			
30	15400	LEAR	4 S/F	0212.0E	0213.0	4.0D	62.0			QL=2 ST=2 TYP=3	
	8800	LEAR	4 S/F	0212.0E	0213.0	4.0D	92.0			QL=2 ST=2 TYP=3	
	8800	PALE	4 S/F	0212.0E	0213.0	4.0D	94.0			QL=4 ST=2 TYP=3	
	15400	PALE	4 S/F	0212.0E	0213.0	3.0D	60.0			QL=4 ST=2 TYP=3	
	17000	NOBE	7 C	0212.7	0213.4	4.0	43.0			0,80,35GHz:0	
	9100	GORK	23 GRF	0303.0E	0348.0	537.0D	30.0				
	200	HIRA	46 C	0431.2	0431.5	1.3	180.0				SR
	2840	PEKG	5 S	0449.0	0451.6	4.0	10.2				
	650	GORK	22 GRF	0449.2	0451.8	8.8	4.0				
	410	SVTO	8 S	0450.0E	0450.0	U	130.0				QL=4 ST=2 TYP=3
	9100	GORK	1 S	0506.0	0506.9	3.0	10.0				
	9300	KISV	2 S/F	0506.5	0507.1	3.0	14.0				
	950	GORK	1 S	0508.0	0508.6	1.8	4.0				
	2950	GORK	2 S/F	0547.2	0550.9	6.0	7.0				
	260	ONDR	41 F	0600.0E	0904.6	600.0D	79.0				
	9300	KISV	23 GRF	0612.2	0617.9	26.5	12.0				
	2950	GORK	20 GRF	0612.7	0617.6	10.0	5.0				
	204	IZMI	8 S	0618.7	0618.8	0.5	150.0				
	15000	KISV	2 S/F	0626.8	0628.4	3.7	25.0				
	9100	GORK	2 S/F	0627.0	0628.4	4.6	30.0				
	9300	KISV	4 S/F	0627.0	0628.6	5.6	34.0				
	200	GORK	41 F	0643.6	0656.2		20.0D				
	200	GORK	41 F	0643.6	0647.3	30.8	80.0				
	100	GORK	41 F	0646.6	0711.8		790.0				
	100	GORK	41 F	0646.6	0658.8	42.2	110.0				
	536	ONDR	41 F	0659.0	0759.8	80.0	18.0				
	15000	KISV	1 S	0709.0	0709.3	0.6	17.0				
	9300	KISV	4 S/F	0714.5	0715.3	1.7	28.0				
	9100	GORK	2 S/F	0714.6	0715.4	1.5	36.0				
	33	UPIC	41 F	0730.3	0731.1	108.5					
	9300	KISV	22 GRF	0736.9	0738.0	9.4	11.0				
	9300	KISV	22 GRF	0736.9	0741.7		11.0				
	204	IZMI	42 SER	0837.5	0838.5	48.5	350.0				
	9300	KISV	2 S/F	0849.3	0850.3	3.0	9.0				
	200	GORK	41 F	1021.4	1023.0	16.6	320.0				
	200	GORK	41 F	1021.4	1037.5		20.0D				
	100	GORK	41 F	1025.4	1030.2		110.0				
	100	GORK	41 F	1025.4	1026.5	14.4	30.0D				
	15000	KISV	2 S/F	1125.0	1125.4	2.0	11.0				
	204	IZMI	41 F	1138.5	1140.0	1.5	550.0				
	9300	KISV	2 S/F	1145.1	1145.7	4.5	9.0				
	15000	KISV	2 S/F	1145.2	1145.3	1.2	17.0				
	9300	KISV	1 S	1227.4	1227.5	0.6	9.0				
	9300	KISV	2 S/F	1231.0	1231.4	1.4	9.0				
	15000	KISV	2 S/F	1231.0	1231.4	1.7	19.0				
	9300	KISV	2 S/F	1241.5	1245.0	7.3	9.0				
	536	ONDR	41 F	1301.0	1301.3	25.0	18.0				
3000	POTS	45 C	1305.0	1315.0	45.0	54.0					
1470	POTS	45 C	1305.0	1317.2	45.0	125.0					
9500	POTS	45 C	1305.0	1314.2	45.0	60.0					
2800	OTTA	4 S/F	1307.0	1315.5	13.8	53.3	16.0				
2695	SVTO	4 S/F	1307.0E	1313.0	12.0D	74.0				QL=4 ST=2 TYP=5	
4995	SVTO	4 S/F	1307.0E	1313.0	12.0D	74.0				QL=4 ST=2 TYP=5	
4995	SGMR	20 GRF	1309.0E	1314.0	18.0D	80.0				QL=4 ST=2 TYP=2	
2695	SGMR	4 S/F	1311.0E	1315.0	15.0D	65.0				QL=4 ST=2 TYP=3	
1415	SGMR	4 S/F	1312.0E	1317.0	7.0D	140.0				QL=4 ST=2 TYP=3	
1415	SVTO	4 S/F	1312.0E	1317.0	7.0D	120.0				QL=4 ST=2 TYP=5	
600	HUMN	4 S/F	1312.5	1316.0	12.0	24.0	8.0				
808	ONDR	45 C	1312.7	1316.4	8.0	163.0					
2800	OTTA	29 PBI	1320.8	1320.8	220.0	27.1	13.0				
536	ONDR	42 SER	1409.5	1425.3	27.0	244.0					
9500	POTS	3 S	1421.5	1422.0	1.5	36.0					
245	PALE	8 S	1726.0E	1726.0	1.0D	59.0				QL=4 ST=2 TYP=3	
245	PALE	4 S/F	1751.0E	1754.0	4.0D	130.0				QL=4 ST=2 TYP=5	
410	PALE	8 S	1924.0E	1924.0	U	230.0				QL=4 ST=2 TYP=3	
245	PALE	49 GB	1941.0E	1943.0	2.0D	1100.0				QL=2 ST=2 TYP=6	
31	100	GORK	44 NS	0242.0E		558.0D	5.0				
	200	GORK	44 NS	0242.0E		558.0D	5.0				

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

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean (2 Hz)		
31	245	LEAR	44 NS	0525.0E	0536.0	271.0D	130.0			QL=2 ST=2 TYP=1
	245	SVTO	44 NS	0536.0E	1000.0	687.0D	190.0			QL=2 ST=2 TYP=1
	204	IZMI	43 NS	0600.0		360.0	40.0			
	127	TORN	43 NS	0852.0		400.0		3.0		V=0
	245	PALE	44 NS	1951.0E	2045.0	409.0D	110.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0033.0E	0034.0	1.0D	130.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0113.0E	0113.0	U	300.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0142.0E	0142.0	1.0D	190.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0142.0E	0143.0	1.0D	240.0			QL=4 ST=2 TYP=3
	500	HIRA	41 F	0206.0	0209.5	7.5	15.0			WR
	245	LEAR	8 S	0224.0E	0224.0	U	91.0			QL=2 ST=2 TYP=3
	410	LEAR	8 S	0230.0E	0230.0	U	51.0			QL=2 ST=2 TYP=3
	610	LEAR	8 S	0230.0E	0230.0	U	19.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0230.0E	0230.0	U	150.0			QL=2 ST=2 TYP=3
	245	PALE	8 S	0230.0E	0230.0	U	170.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0230.0E	0230.0	U	81.0			QL=4 ST=2 TYP=3
	200	HIRA	46 C	0233.7	0234.1	2.8	1200.0			MR
	100	HIRA	41 F	0233.7	0234.3	4.4	2600.0			WR
	245	LEAR	49 GB	0234.0E	0234.0	2.0D	1100.0			QL=2 ST=2 TYP=6
	410	LEAR	4 S/F	0234.0E	0237.0	5.0D	180.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0234.0E	0237.0	4.0D	57.0			QL=2 ST=2 TYP=3
	410	PALE	4 S/F	0234.0E	0238.0	6.0D	240.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	0234.0E	0234.0	7.0D	1500.0			QL=2 ST=2 TYP=6
	500	HIRA	41 F	0234.5	0237.7	6.0	159.0			MR
	610	PALE	4 S/F	0235.0E	0238.0	3.0D	56.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0240.0E	0240.0	U	340.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0316.0E	0316.0	U	68.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0325.0E	0325.0	U	79.0			QL=2 ST=2 TYP=3
	650	GORK	22 GRF	0325.2	0329.3	14.3	7.0			
	410	LEAR	8 S	0329.0E	0329.0	U	94.0			QL=2 ST=2 TYP=3
	410	PALE	8 S	0329.0E	0329.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	0329.0E	0330.0	4.0D	110.0			QL=2 ST=2 TYP=3
	500	HIRA	46 C	0329.0	0329.4	2.0	98.0			MR
	245	LEAR	4 S/F	0330.0E	0330.0	3.0D	140.0			QL=2 ST=2 TYP=3
	200	HIRA	46 C	0331.0	0331.7	1.2	58.0			SR
	8800	LEAR	4 S/F	0407.0E	0408.0	3.0D	79.0			QL=2 ST=2 TYP=3
	4995	LEAR	4 S/F	0407.0E	0408.0	3.0D	50.0			QL=2 ST=2 TYP=3
	9100	GORK	46 C	0407.1	0415.0		23.0			
	9100	GORK	46 C	0407.1	0412.2		28.0			
	9100	GORK	46 C	0407.1	0408.9	10.9	103.0			
	9100	GORK	29 PBI	0418.0	0418.0	21.0	10.0			
	245	SVTO	8 S	0439.0E	0440.0	1.0D	340.0			QL=4 ST=2 TYP=3
	100	GORK	41 F	0450.6	0455.0	22.4	450.0			
	200	GORK	41 F	0451.3	0504.3		120.0			
	200	GORK	41 F	0451.3	0501.7	14.2	155.0			
	33	UPIC	42 SER	0453.0	0508.5	22.0				
	100	GORK	41 F	0458.6	0508.6		2230.0			
	2950	GORK	22 GRF	0504.8	0508.7	9.4	5.0			
	650	GORK	2 S/F	0506.7	0511.6	5.7	5.0			
	100	HIRA	46 C	0507.4	0508.3	2.2	740.0			
15000	KISV	2 S/F	0508.0	0508.5	0.7	10.0				
9300	KISV	4 S/F	0508.0	0508.6	1.4	25.0				
9100	GORK	3 S	0508.2	0508.6	0.8	20.0				
500	HIRA	41 F	0512.9	0514.0	2.4	55.0			MR	
410	SVTO	8 S	0513.0E	0514.0	2.0D	73.0			QL=4 ST=2 TYP=3	
410	LEAR	8 S	0514.0E	0514.0	U	68.0			QL=2 ST=2 TYP=3	
245	LEAR	8 S	0515.0E	0516.0	1.0D	120.0			QL=2 ST=2 TYP=3	
245	SVTO	8 S	0515.0E	0516.0	1.0D	130.0			QL=4 ST=2 TYP=3	
9300	KISV	2 S/F	0527.6	0529.3	5.0	7.0				
9300	KISV	2 S/F	0612.2	0612.7	3.8	8.0				
9100	GORK	1 S	0612.4	0612.8	1.8	10.0				
9100	GORK	22 GRF	0617.0	0808.7	343.0D	10.0				
260	ONDR	41 F	0630.0E	1052.1	570.0D	104.0				
204	IZMI	42 SER	0646.5	0647.0	2.0	155.0				
33	UPIC	42 SER	0646.5	0714.4	121.5					
410	SVTO	8 S	0830.0E	0831.0	1.0D	68.0			QL=4 ST=2 TYP=3	
33	UPIC	42 SER	1030.5		148.7					
2950	GORK	21 GRF	1042.5	1057.2	18.9	3.0				
2950	GORK	1 S	1042.9	1043.2	0.8	8.0				

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S O L A R R A D I O E M I S S I O N  
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AUGUST 1990

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m <sup>2</sup> Hz)	Mean		
31	234	POTS	42 SER	1043.2	1051.6	9.6	200.0			
	200	GORK	41 F	1044.4	1051.6		155.0			
	200	GORK	41 F	1044.4	1046.9	7.9	30.00			
	536	ONDR	41 F	1045.5	1051.9	80.0	153.0			
	100	GORK	41 F	1046.1	1051.5		4520.0			
	113	POTS	42 SER	1046.1	1051.6	5.5	1300.0			
	30	POTS	42 SER	1046.1	1051.6U	6.9	4000.00			
	100	GORK	41 F	1046.1	1046.8	6.2	1115.0			
	127	TORN	8 S	1046.3	1046.9	1.7	700.0	350.0		
	650	GORK	2 S/F	1046.5	1047.0	1.0	6.0			
	204	IZMI	42 SER	1046.5	1051.5	6.5	300.0			
	430	KRAK	42 SER	1046.5E	1051.5	14.30	250.0			
	2950	GORK	1 S	1046.6	1047.0	1.2	5.0			
	127	TORN	7 C	1051.0	1051.9	1.4	470.0	20.0		
	650	GORK	4 S/F	1055.1	1055.3	1.4	10.0			
	536	ONDR	42 SER	1332.0	1332.5	56.0	233.0			
	245	PALE	8 S	1920.0E	1921.0	1.00	59.0			QL=4 ST=2 TYP=3
	200	HIRA	27 RF	2000.0E	2100.0	300.00	7.0	4.0		WR

Reports are received routinely from the following observatories:

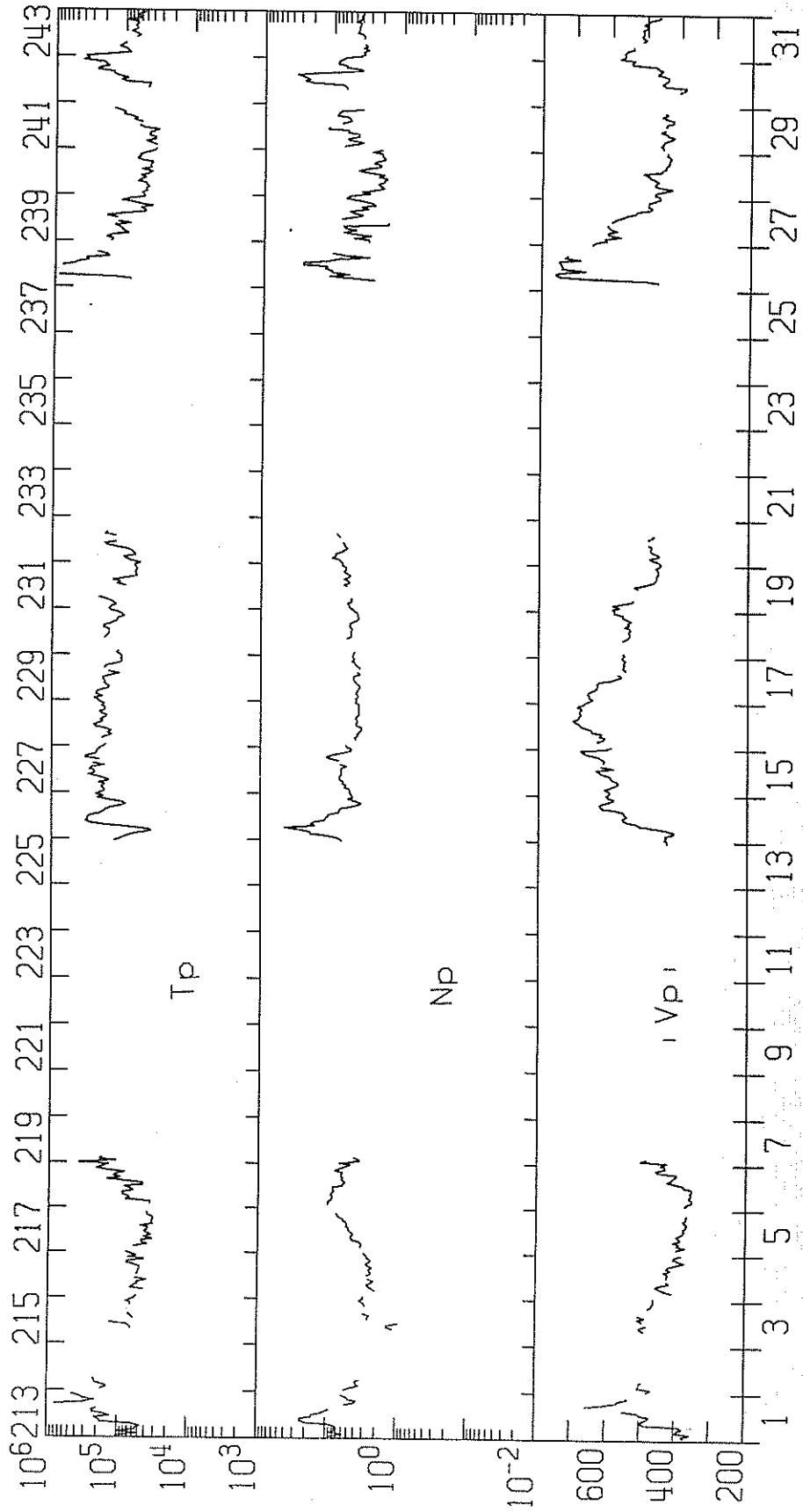
BERN = Berne	IZMI = IZMIRAN	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	KISK = Kislovodsk	OTTA = Ottawa	SYDN = Sydney
GORK = Gorky	KRAK = Krakow	PALE = Palehua	TORN = Torun
HIRA = Hiraiso	LEAR = Learmonth	PENT = Penticton	TRST = Trieste
HUAN = Huancayo	NOBE = Nobeyama	POTS = Potsdam	TYKW = Toyokawa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

Explanation of Type Code:

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

IMP 8 SOLAR WIND PLASMA  
AUGUST 1990

MIT/CSR IMP 8 PLASMA PARAMETERS

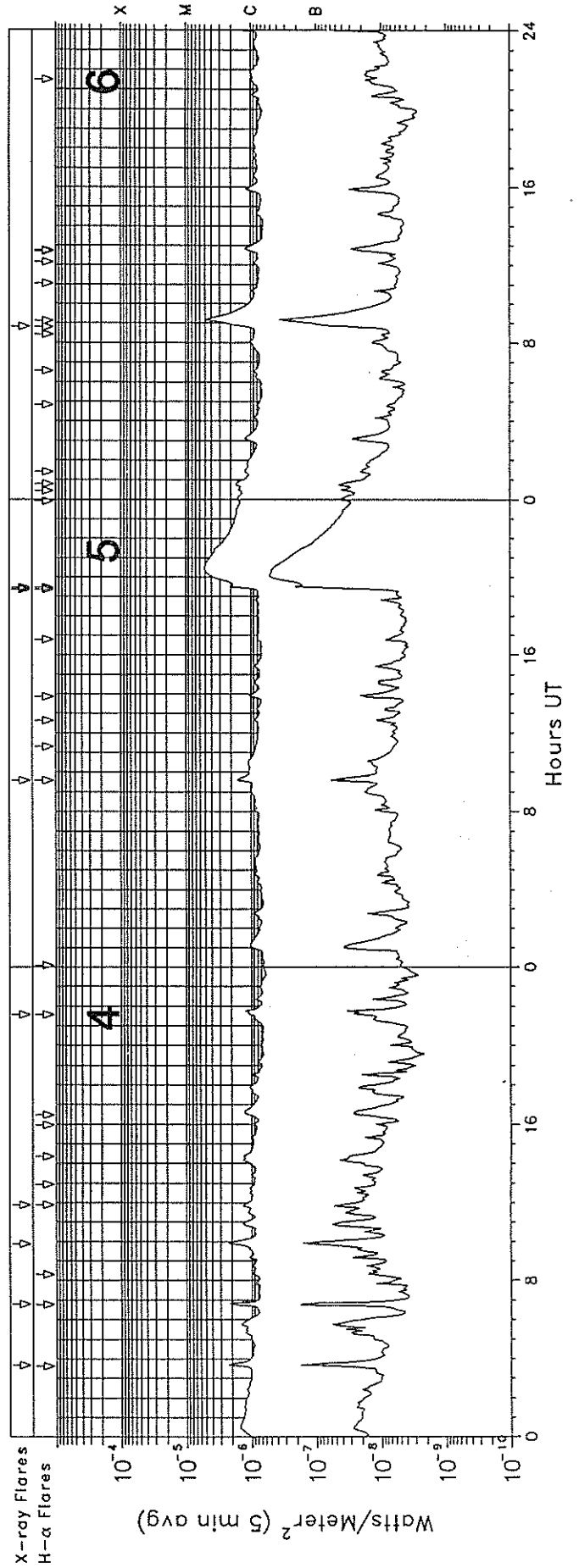
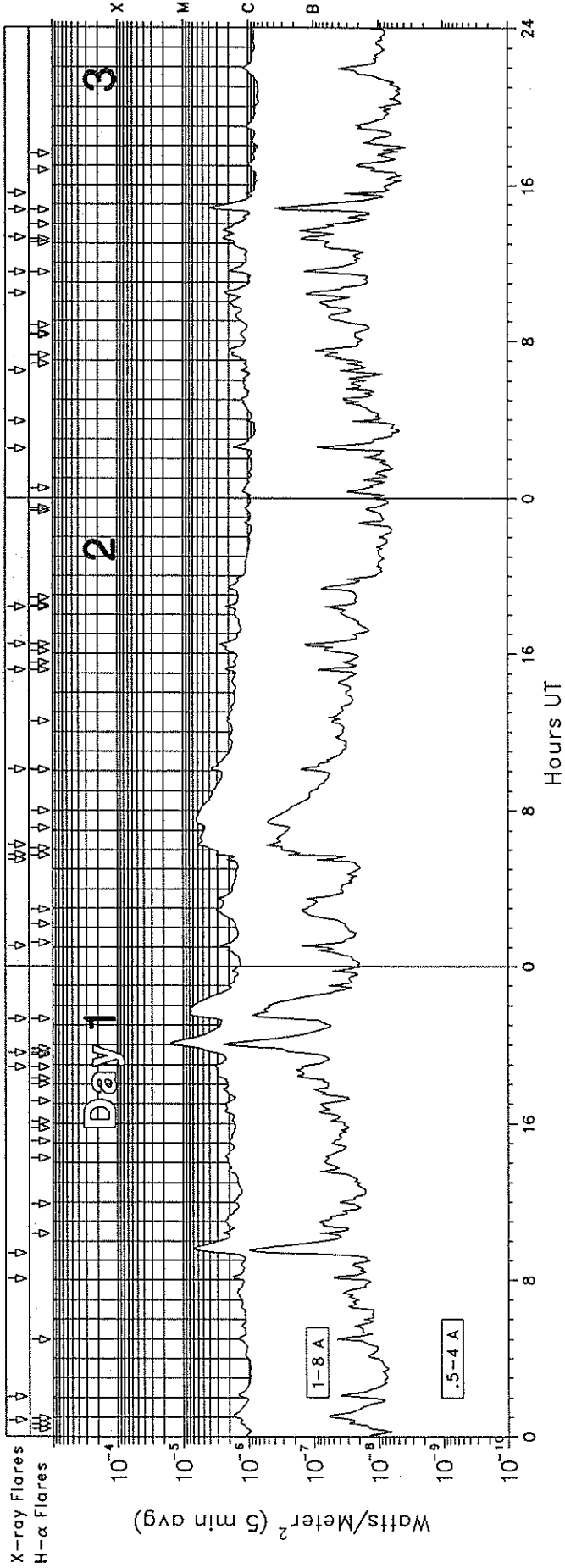


AUG 1990

IMP 8

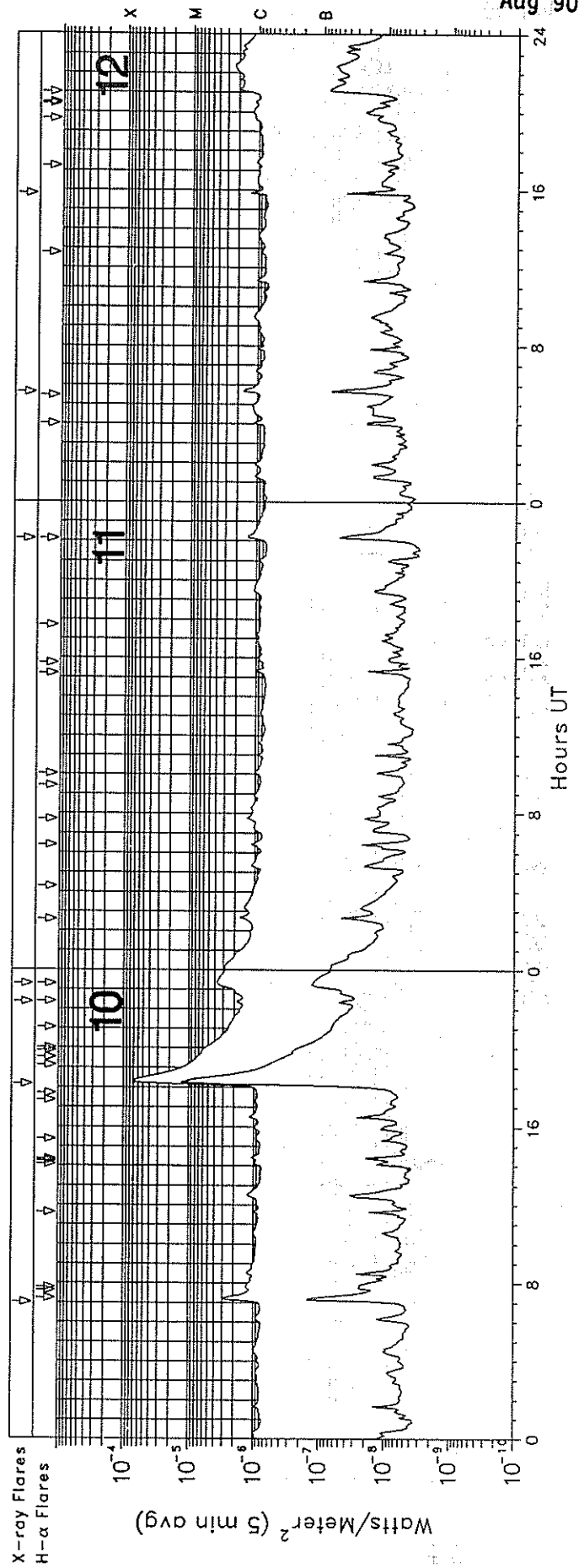
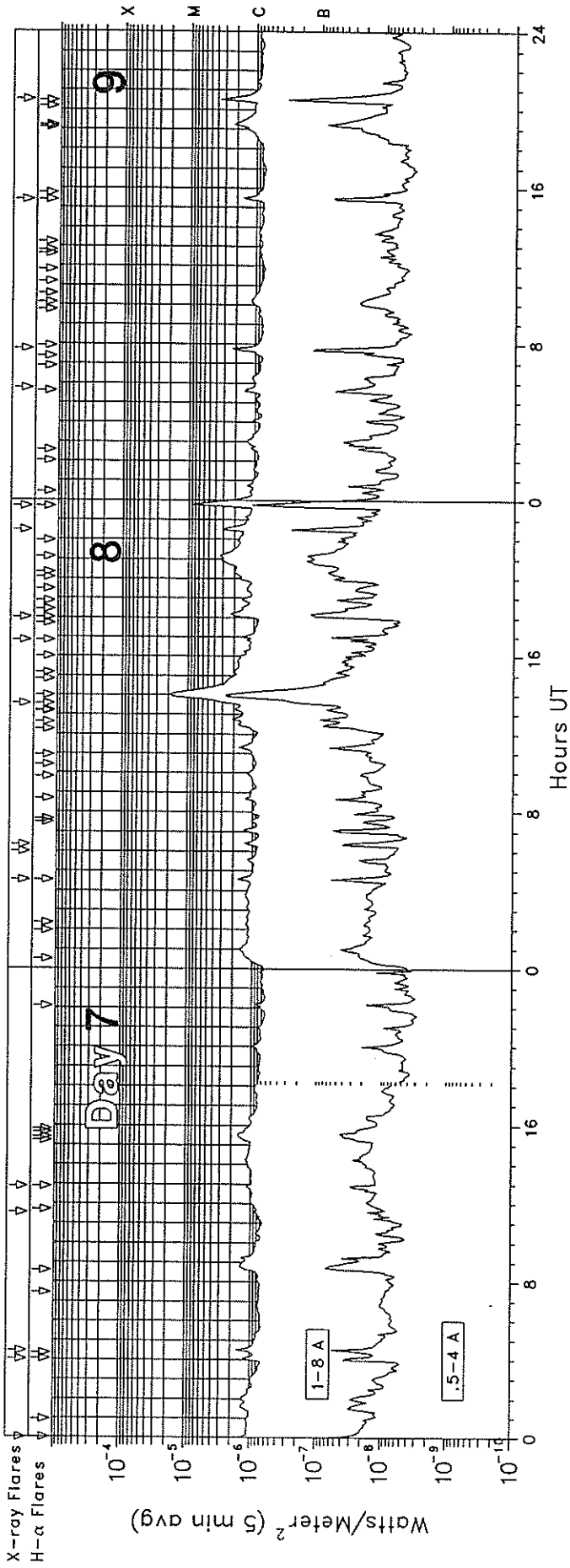
MIT PRELIMINARY ONE-HOUR AVERAGES

# GOES-7 X-RAY DETECTOR August 1990



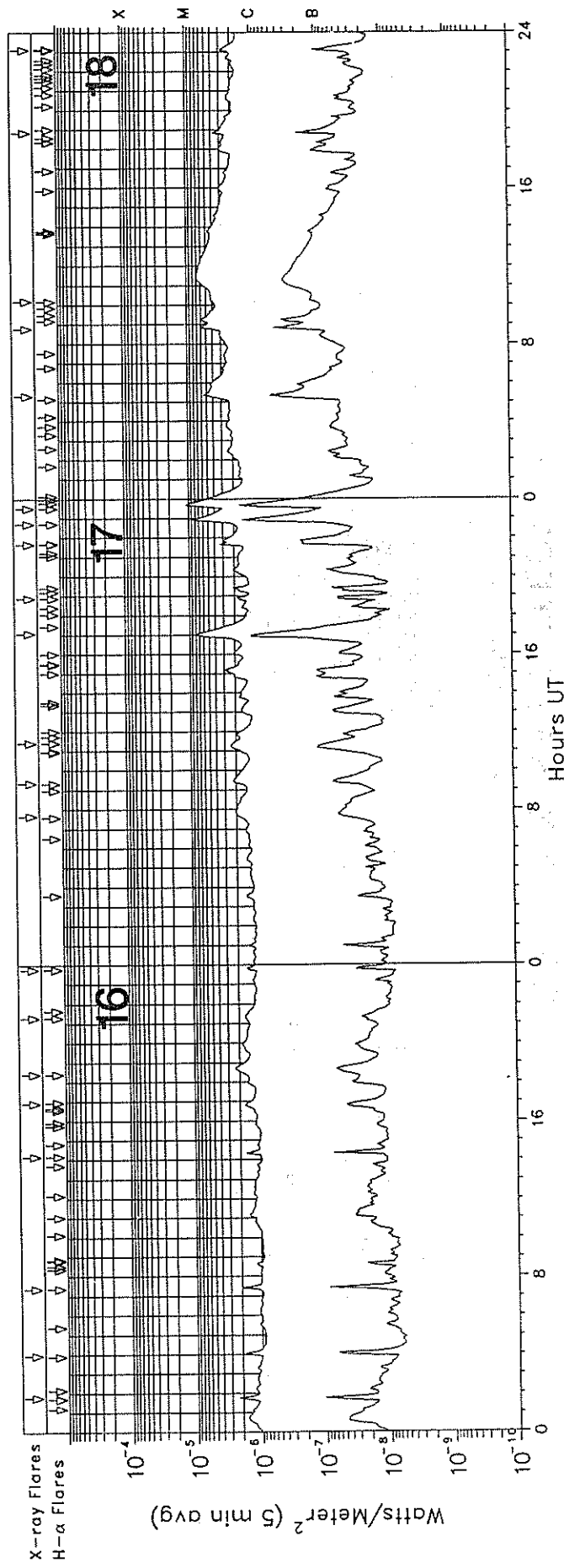
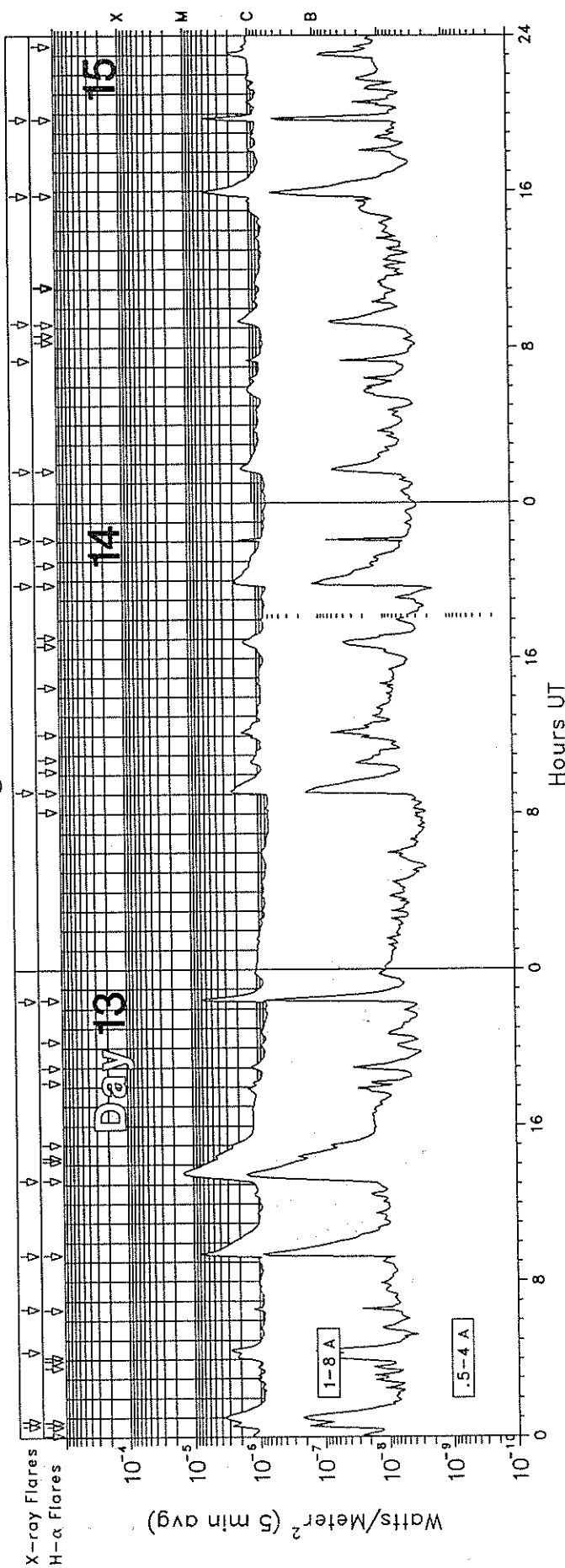
# GOES-7 X-RAY DETECTOR

August 1990



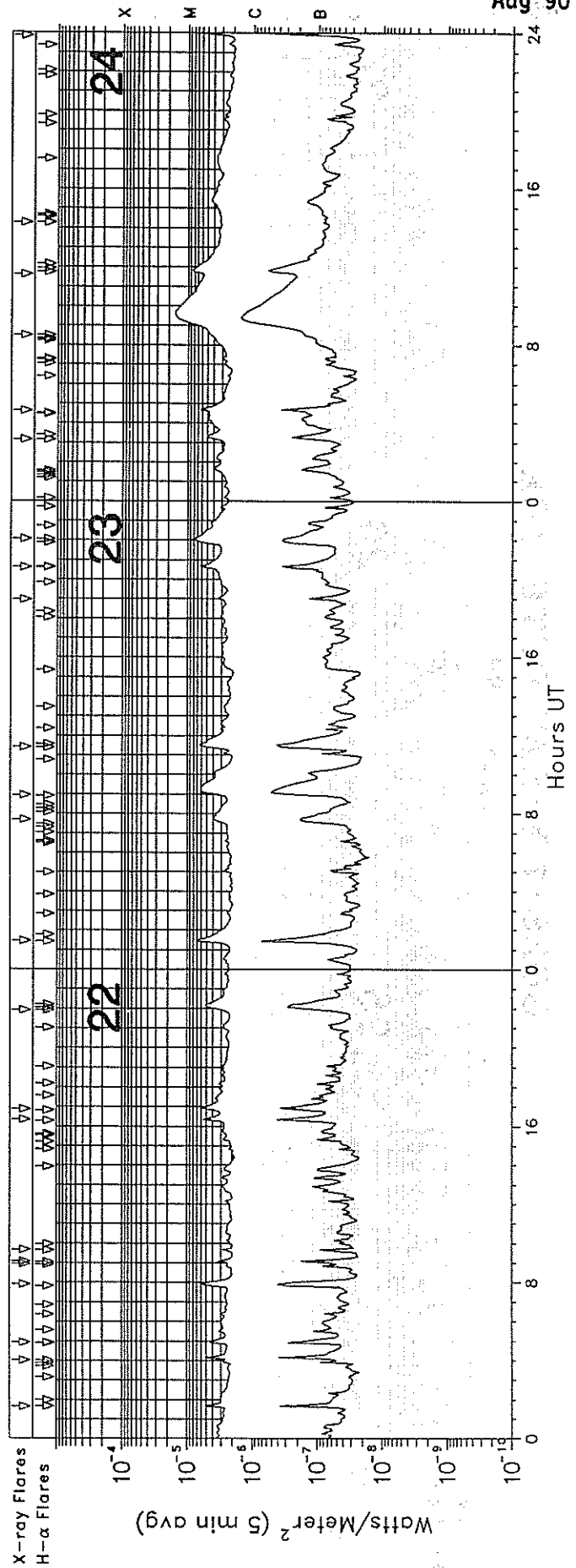
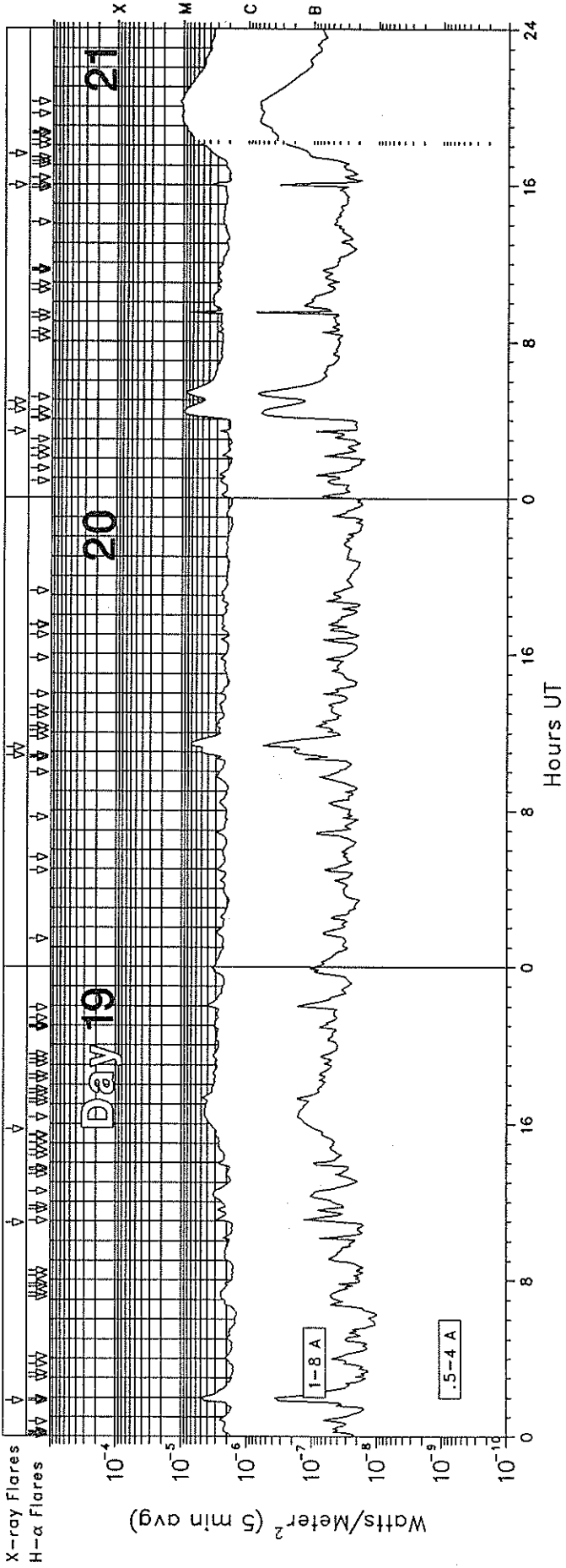
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# GOES-7 X-RAY DETECTOR August 1990



# GOES-7 X-RAY DETECTOR

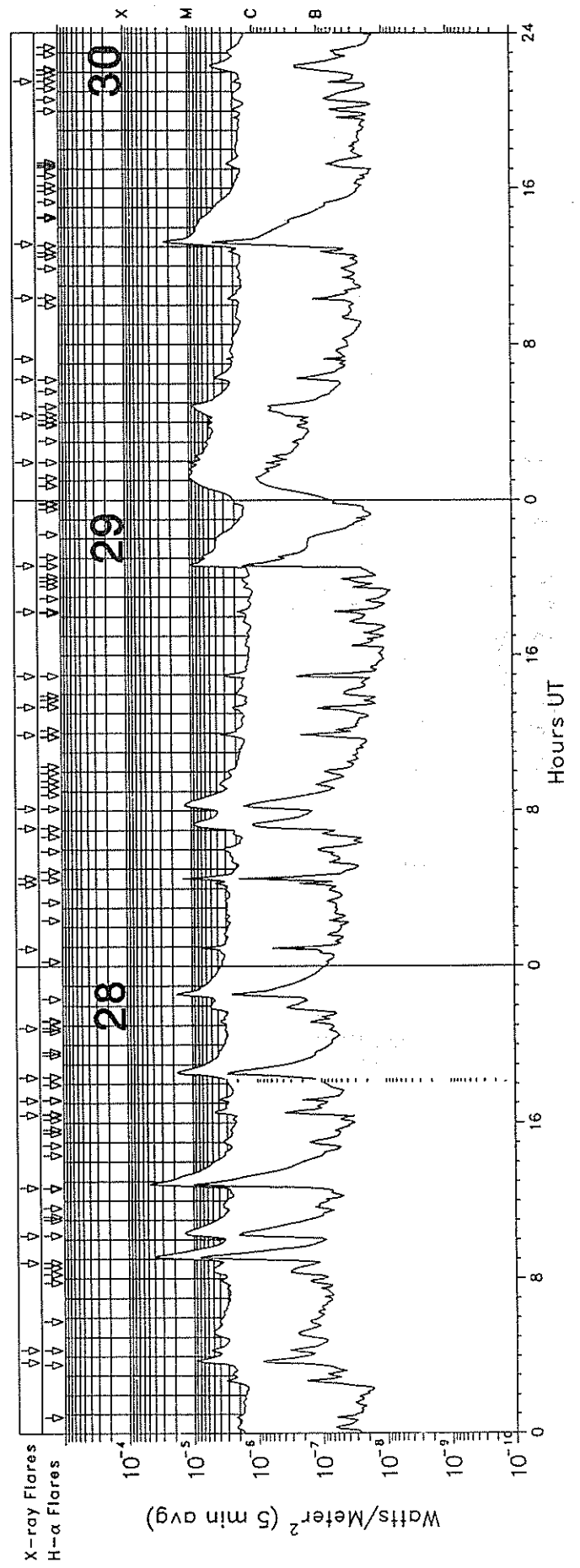
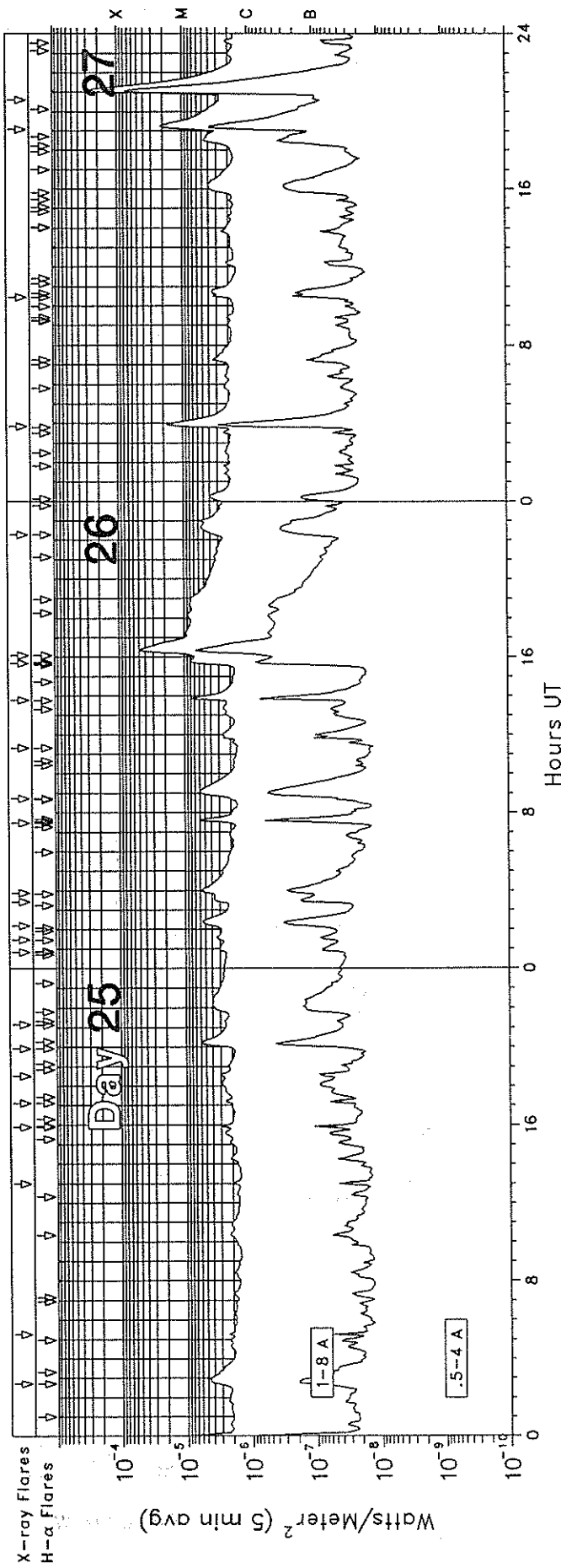
August 1990





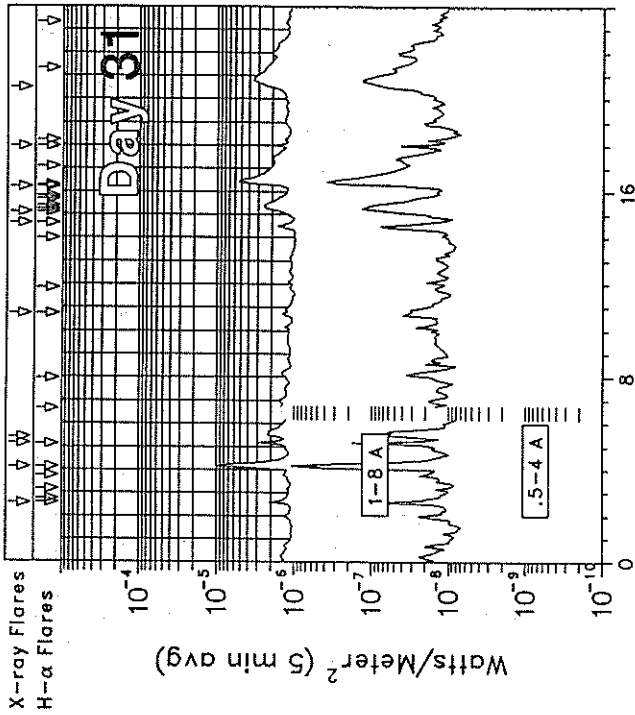
# GOES-7 X-RAY DETECTOR

August 1990



# GOES-7 X-RAY DETECTOR

August 1990



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

August 1990

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
01	0052	0106	0114					C1.8
01	0203	0209	0215					C1.5
01	0804	0812	0815					C1.9
01	0923	0938	0953					C7.0
01	1853E	1855	1900D	N09	W51	SF	C3.3	6171
01	1936E	2002	2109D	S25	W42	SN	M1.6	6172
01	2120E	2129	2208D	S25	W42	SN	C8.3	6172
02	0104	0108	0111					C2.8
02	0529	0533	0536					C2.4
02	0545E	0549U	0603D	S26	W53	SF	C5.0	6172
02	0616	0619	0622					C7.4
02	1006E	1010	1014D	S27	W47	SF	C4.2	6172
02	1510E	1515	1556D	N18	E58	SF	C2.3	6186
02	1629E	1629	1636D	S25	W55	SF	C2.9	6172
02	1824E	1826	1844	N24	E58	SF	C2.4	6185
03	0231	0237	0245					C1.7
03	0354	0357	0402					C1.1
03	0628	0631	0638					C1.3
03	1026	1030	1034					C2.7
03	1132E	1135	1148D	S25	W63	SF	C2.0	6172
03	1318	1318U	1347D	S15	E34	SF	C2.6	
03	1443E	1450	1500D	S25	W67	SN	C4.5	6172
03	1534	1537	1539					C1.2
04	0340E	0342	0350D	S27	W70	SF	C2.5	6172
04	0648E	0650	0700D	S27	W73	SF	C4.9	6172
04	0954	0959	1003					C2.3
04	1154E	1158	1221D	N16	E34	SF	C1.5	6186
04	2134E	2134	2145D	N28	E22	SN	C1.5	6185
05	0935E	0936	0951D	N24	E38	SF	C1.7	6188
05	1922	1931	1939					C2.4
05	1928E	1943	1949D	S27	W81	SF	C5.1	6172
06	0850E	0912	0949D	N24	E24	SF	C5.1	6188
07	0001E	0003	0009D	S17	W19	1N	C2.4	6192
07	0401	0405	0408					C1.8
07	0427E	0430	0438D	N18	W63	2N	C1.8	6180
07	1133	1136	1138					C1.2
07	1254E	1254	1300D	S17	W26	SF	C2.0	6192
08	0433E	0434	0443D	S17	W35	SF	C1.7	6192
08	0559E	0702U	0757D	N14	E72	1F	C1.4	6197
08	0621	0626	0632					C1.3
08	1334E	1358	1440D	N15	E71	1N	M1.9	6197
08	1651E	1653	1702	N15	E66	SF	C1.5	6197
08	1801E	1808	1841D	N14	E68	SB	C2.4	6197
08	2229	2234	2239					C3.6
08	2342E	2347	0025D	N14	E66	1N	C9.6	6197
09	0545		0547	N15	E65	SF	C1.6	6197
09	0746	0750U	0800D	N16	E61	SF	C3.5	6197
09	1525E	1530	1554D	N15	E57	SF	C1.8	6197
09	2031E	2033	2057D	N15	E54	SF	C3.8	6197
10	0702E	0705	0721D	S18	E18	SF	C3.0	6205
10	1809E	1814	1912D	N20	E72	2B	M7.9	6203
10	2222E	2224	2231D	N22	W54	1N	C2.1	6185
10	2318E	2346	0006D	N24	W37	SF	C3.7	6188
11	2207E	2211	2216D	N12	E40	SF	C1.4	6199

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
12	0537E	0542	0553D	N13	E33	SF	C1.8	6199
12	1549	1554	1557					C1.6
13	0034E	0035	0047D	N13	E25	SF	C3.5	6199
13	0048E	0055	0114D	N14	E24	SF	C3.5	6199
13	0424E	0428	0441D	N21	E40	SF	C3.4	6203
13	0635E	0636	0642D	N24	E76	SF	C1.3	6209
13	0921E	0929	0959D	N14	E17	1F	M1.0	6199
13	1313E	1321	1535D	N17	E10	1B	M1.4	6197
13	2225E	2230	2250D	N20	E33	1B	C8.5	6203
14	0907E	0911	0923D	N12	E05	SF	C3.3	6199
14	1945E	1948	2046D	N20	E18	1F	C1.8	6203
14	2205E	2208	2217D	N22	E43	SF	C2.3	6209
15	0137E	0153	0210D	S13	W26	SF	C1.5	6195
15	0720	0724	0727					C1.3
15	0914	0919	0944					C1.5
15	1545E	1545	1618D	N05	W40	SF	C4.9	6213
15	1941E	1949	2009D	S16	E21	SF	C5.5	6206
16	0146E	0146	0156D	S17	E15	SF	C2.4	6206
16	0356E	0403	0423D	S17	E19	1B	C2.2	6206
16	0722	0727	0732					C2.0
16	1410E	1421U	1424	N02	W09	SF	C1.9	6208
16	1654E	1658	1714E	S08	E39	SF	C1.7	6214
16	1824E	1834	1909	N10	W23	SF	C2.4	6199
16	2117E	2119	2151D	N22	E12	SF	C1.6	6209
16	2346E	2351	2357D	S18	E04	SF	C1.6	6206
17	0739	0749	0807					C2.1
17	0920E	0928	1000	S14	W68	SF	C2.3	6195
17	1125E	1126	1131D	N12	E62	SF	C2.4	6219
17	1705E	1705	1711D	N21	W20	SF	C7.8	6203
17	1852E	1854	1900D	S09	E22	SN	C2.2	6214
17	2140E	2141	2147D	S10	E20	1F	C4.0	6214
17	2243E	2245	2302D	N05	W14	SF	C9.1	6216
17	2331E	2331	2339D	N06	W15	SF	M1.1	6216
18	0517	0522	0533					C5.6
18	0847	0854	0904					C6.2
18	1012	1124	1238					C7.0
18	1850E	1851	1904D	S19	E75	SF	C4.2	6226
18	2306E	2308	2317D	S21	E71	SF	C3.2	6226
19	0150E	0152	0206D	S22	E69	SN	C5.5	6226
19	1056	1108	1112D	S23	E73	SF	C2.9	6226
19	1543	1624	1734					C4.4
20	1049	1104	1117					C5.1
20	1115	1138U	1201	S23	E59	SF	C7.5	6226
21	0324	0327	0330					C2.9
21	0429E	0432	0452D	S22	E47	SF	C9.5	6226
21	0455E	0522	0557D	S19	E48	1F	C9.2	6226
21	1558E	1605	1610D	S21	E46	SF	C9.1	6226
21	1734	1913	2215	S19	E34	SF	M1.1	6226
22	0138E	0142	0154D	S13	E38	1F	C5.6	6223
22	0401E	0411	0430D	S11	E38	SF	C5.7	6223
22	0456E	0458	0509D	S12	E38	SF	C5.3	6223
22	0755E	0757	0803D	S22	E33	SF	C6.1	6226
22	0857E	0900	0903D	N13	E73	SF	C2.9	6231
22	0905E	0907	0913D	S22	E31	SF	C3.4	6226

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

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 Aug 90

August 1990

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
22	0940E	0940	0947D	N05	W73	SF	C3.7	6216
22	1620E	1622	1629D	S10	E29	SF	C6.0	6223
22	1652	1659	1703				C6.4	
22	2154E	2212	2232D	S23	E27	SF	C5.3	6226
23	0126E	0129	0136D	N05	W86	SF	C8.8	6216
23	0741	0741U	0845	S13	E16	1N	C3.9	6223
23	0856	0913	0944				C6.2	
23	1125	1135	1141				C6.5	
23	1857	1903	1906				C3.8	
23	2037E	2039	2055D	N15	E83	SF	C7.4	6233
23	2203E	2203	2215D	S24	E13	SF	C7.9	6226
24	0309E	0326	0353	S31	E31	SF	C5.2	6230
24	0437E	0439	0451D	S09	W63	SF	C6.6	6214
24	0830E	0920	1220D	S11	E03	1N	M1.6	6223
24	1137	1149	1203				C8.8	
24	1415E	1425	1510D	S14	W00	SF	C4.4	6223
24	2351	0001U	0014D	S27	E19	SF	M1.5	6230
25	0242E	0247	0251D	N12	E68	SF	C4.6	6233
25	0516	0518	0520				C2.6	
25	1300	1304	1307				C2.1	
25	1553E	1555	1605D	S23	W10	SF	C3.1	6226
25	1707E	1714	1719D	N12	E56	SF	C2.7	6233
25	1831E	1836	1842D	S18	W10	SF	C3.2	6226
25	1955E	2009	2113D	S23	E02	1N	C6.0	6227
25	2110	2209	2302D	S06	E09	1F	C4.0	6228
26	0050E	0051	0102D	N15	W16	SF	C3.1	6234
26	0129	0136	0143				C3.5	
26	0212E	0227	0256D	S11	W32	1F	C5.5	6235
26	0326		0355D	S15	W90	1N	C3.8	6214
26	0353E	0354	0423D	S19	W16	SF	C5.9	6226
26	0728E	0737	0753D	N16	E40	SN	C6.7	6233
26	0844E	0907	0956	S18	W23	1N	C5.9	6226
26	1120E	1154	1230D	N15	E37	SF	C2.8	6233
26	1347E	1352	1445D	N13	E37	1N	M1.0	6233
26	1541E	1542	1556D	N16	E42	SF	C8.3	6233
26	1605E	1620	1918D	S24	W07	2B	M5.2	6227
26	2217E	2303	2320D	N14	E38	SF	C5.6	6233
27	0350E	0356	0412D	S19	W32	2F	M1.8	6226
27	1028E	1039	1106D	N15	E26	SF	C3.5	6233

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/USAF Region
27	1905E	1914	2026D	N14	E26	SF	M2.1	6233
27	2037E	2105	2156D	N14	E26	2B	X3.0	6233
28	0342E	0343	0410D	N13	E17	1N	C9.5	6233
28	0421E	0424	0430D	N14	E22	SN	C6.5	6233
28	0849E	0910	0953D	N15	E15	1B	M4.5	6233
28	1013E	1015	1059D	N15	E17	SN	M1.3	6233
28	1241E	1249	1419D	N13	E17	1N	M4.9	6233
28	1624E	1633	1635D	S22	W52	SF	C5.2	6226
28	1709E	1711	1734D	S22	W52	SN	C4.3	6226
28	1820	1829	1925D	N14	E13	SB	M1.8	6233
28	2052E	2233	2339D	N13	E13	1N	M1.8	6233
29	0053	0057	0101				C7.4	
29	0413	0417	0421				C4.5	
29	0432		0449D	S22	W42	1N	M1.5	6226
29	0705E	0727	0740D	N14	E11	SF	C9.4	6233
29	0807E	0813	0843D	N13	E03	SF	M1.3	6233
29	1155E	1155	1200D	S23	W53	SF	C3.7	6226
29	1320E	1323U	1337D	S13	W62	SF	C2.7	6223
29	1456E	1457	1536D	S13	W65	SF	C4.0	6223
29	1816E	1819	1825D	S13	E54	SF	C2.2	6238
29	2037E	2040	2246D	N13	W03	1N	M1.6	6233
30	0157E	0158	0211D	N14	W12	SN	M1.2	6233
30	0420		0510D	N14	W05	SF	M1.0	6233
30	0612E	0614U	0625	N12	W04	SF	C1.0	6233
30	0714	0717	0719				C3.1	
30	1023	1023U	1057	N12	W10	SF	C2.6	6233
30	1308	1316	1449D	N13	W08	1B	M2.5	6233
30	2131E	2134	2142D	N13	W17	SF	C2.5	6233
31	0233	0239	0242				C2.2	
31	0408E	0415	0425D	S25	W87	1F	M1.0	6226
31	0509E	0511	0517D	N14	W28	SF	C3.6	6233
31	0525	0532	0549				C2.3	
31	1044E	1046	1059	S19	E24	SF	C2.0	6242
31	1438E	1439	1457D	S24	W78	SF	C1.7	6226
31	1506E	1507	1558D	N13	W22	SF	C2.6	6233
31	1613E	1628	1711D	N13	W21	1B	C5.7	6233
31	1759E	1800	1812	S15	E39	SF	C1.9	6238
31	2030	2052	2110				C3.5	

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Aug 90

Preliminary GOES Satellite Data  
Daily Average X-ray Background  
Sep 1989 - Aug 1990

Day	1989				1990							
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1	C3.9	C1.3	C1.2	C1.6	C1.4	B9.5	C1.1	B7.4	B3.1	B3.1	C1.2	C1.3
2	C2.5	C1.5	C1.4	C1.2	C1.1	B7.8	C1.1	B5.2	B4.2	B3.7	C1.4	C1.2
3	C1.9	C1.6	C1.2	C1.1	C1.1	B8.9	C1.0	B7.8	B2.8	B3.6	C1.2	B7.8
4	C1.9	C1.6	C1.3	C1.5	C1.1	B7.8	B9.1	B6.9	B2.7	B3.8	C1.1	B7.1
5	C1.7	C1.3	C1.3	C1.1	C1.0	B7.7	B7.0	B6.1	B4.4	B4.8	C1.1	B6.9
6	C2.3	C1.2	C1.7	C1.0	C1.0	C1.1	B7.5	B5.4	B5.7	B8.5	C1.0	B7.0
7	C2.1	C1.2	C1.9	C1.5	---	B7.5	B7.4	B4.6	B7.7	C1.2	C1.1	B7.0
8	C2.5	C1.0	C2.5	C1.4	B7.3	B6.1	B6.7	B4.6	B9.8	C1.0	C1.1	B9.6
9	C2.3	C1.3	C2.9	C1.2	B6.2	B5.7	B5.4	B4.8	C1.0	B9.1	C1.1	B7.8
10	C2.7	C1.0	C2.3	B8.9	B6.9	B5.2	B5.9	B6.1	C1.4	C1.3	B9.7	B7.9
11	C2.3	C1.0	C1.7	B8.1	B7.3	B4.6	B8.5	C1.0	C1.5	C1.0	B7.9	B7.2
12	C3.8	---	C1.7	B7.2	B7.5	B4.3	B5.8	C1.2	---	C1.1	B6.0	B7.9
13	C2.3	C2.7	C1.5	B7.3	B7.5	B4.0	B7.1	---	C1.5	C1.0	B7.8	B8.2
14	C1.9	C1.4	C1.8	B7.4	B6.7	B4.1	B8.8	C1.6	C1.3	B8.0	B4.6	B6.3
15	C1.7	C1.4	C2.2	B6.3	B9.5	B4.2	C1.0	C1.6	C1.9	B8.5	B4.3	B6.6
16	C1.9	C1.1	C1.7	B6.2	C1.0	B4.0	C1.2	C1.3	C1.4	B6.9	B4.6	B9.4
17	C1.1	C1.2	C1.6	B6.8	C1.1	B5.9	B9.3	C1.2	C1.4	B5.9	B6.2	C1.2
18	C1.1	C2.0	C1.6	B8.8	C1.2	B8.2	C1.3	C1.7	C1.6	B4.9	B9.5	C1.7
19	C1.4	C3.2	C1.8	C1.1	C1.6	C1.2	C1.6	C1.3	C2.4	B4.8	B4.7	C1.6
20	B8.9	C1.7	C1.4	B9.6	C1.9	C1.1	C1.1	C1.6	C1.8	B5.2	B4.7	C1.9
21	B8.3	C1.6	C1.5	C1.2	C1.9	C1.2	C1.3	C1.4	C1.6	B5.0	B5.8	C2.0
22	B8.9	---	C1.6	C1.5	C1.8	C1.0	C1.9	C1.1	C1.4	B4.6	B6.2	C2.0
23	B8.6	C2.4	C1.3	C1.2	C1.4	C1.1	C1.4	C1.1	C1.6	B4.2	B7.2	C2.2
24	B8.7	C1.8	C1.1	C1.4	C1.5	C1.0	C1.4	C1.0	C1.3	B5.8	B7.3	C2.1
25	C1.1	---	C1.2	C2.2	C1.2	B9.8	C1.1	C1.1	C1.5	B6.0	C1.0	C1.5
26	C1.5	C1.1	C1.3	C2.7	C1.4	B9.5	C1.7	C1.3	C1.4	B5.2	B9.5	C1.8
27	C1.6	C1.4	C1.3	C2.7	C1.0	C1.2	C1.6	C1.0	B6.8	B9.4	B7.0	C1.7
28	C1.8	C1.3	C1.1	C2.6	C1.0	C1.6	C1.8	B5.7	B6.4	C1.3	B7.3	C2.2
29	C2.4	C1.4	C1.2	C2.7	C1.2		C1.3	B3.8	B4.7	C1.3	B6.6	C1.5
30	C1.3	C1.4	C1.8	C2.5	C1.1		C1.2	B3.4	B5.5	C1.1	C1.0	C1.5
31		C1.6		C1.8	C1.0		C1.0		B4.5		B9.4	C1.0

# MASS EJECTIONS FROM THE SUN

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Aug 90

AUGUST 1989

Site	Mo	Day	Observed UT			Location		Freq or Wavelength	Kind of Event			
			Start	Max	End	RA*	R/Ro					
KHAR	Aug	06	0905	E	0915	D	065-070	0.46	H-alpha	S		
KHAR	Aug	07	0738	E	0748	D	222-224	0.58	H-alpha	S		
KHAR	Aug	09	0738	0800	U	0835	D	286	1.00-1.02	H-alpha	S	
KHAR	Aug	10	1035	E	1036	U	1052	D	154-157	0.51-0.54	H-alpha	S
SGMR	Aug	10	1806.0							Meter	IV	
PALE	Aug	10	1815.0							Meter	IV	
WEIS	Aug	10	1815.9							130- 30 MHz	II Herringbone	
KHAR	Aug	11	1009	E	1020	D	291	0.89	H-alpha	S		
KHAR	Aug	16	1015	E	1016	U	1028	D	340-345	0.28-0.31	H-alpha	S
KHAR	Aug	18	0848	E	0849	U	0855	D	113	1.00-1.02	H-alpha	S
KHAR	Aug	18	0928	E	0929	U	0942	D	112-114	0.97	H-alpha	S
ONDR	Aug	18	1315.5							Dekameter; meter	IV Pulsations	
POTS	Aug	20	1056.5							40-170 MHz	II? Harmonic	
WEIS	Aug	20	1100.4							44- 33 MHz	II	
KHAR	Aug	21	0848	E	0858	D	282	1.00-1.02	H-alpha	S		
ONDR	Aug	22	0827.2							Dekameter; meter	IV Intermittant	
SGMR	Aug	22	1958.0							Meter	II	
PALE	Aug	22	1958.0							Meter	II	
SGMR	Aug	22	2003.0							Meter	IV	
PALE	Aug	22	2100.0							Meter	IV	
KHAR	Aug	23	0838	E	0848	D	076	1.00-1.03	H-alpha	S		
ONDR	Aug	24	0848.9							Dekameter; meter	IV Pulsations	
POTS	Aug	26	0727.2							40-170 MHz	IV	
KHAR	Aug	26	0810	E	0835	D	088	0.64	H-alpha	S		
KHAR	Aug	26	0920	E	0930	D	244-253	0.57-0.58	H-alpha	S		
WROC	Aug	26	1154				271	0.1	H-alpha	S		
POTS	Aug	26	1349.1							40-170 MHz	IV	
BLN	Aug	26	1618.7							Meter	II	
ONDR	Aug	26	1618.9							Dekameter; meter	IV	
WEIS	Aug	26	1621.8							290- 48 MHz	II Herringbone	
SVTO	Aug	26	1624.0							Meter	II	
SGMR	Aug	26	1625.0							Meter	II	
BLN	Aug	26	1635.3							Dekameter; meter	IV Pulsations	
KHAR	Aug	27	0940	E	1025	D	276	1.00	H-alpha	S		
SGMR	Aug	27	2056.0							Meter	IV	
CULG	Aug	27	2058							Meter	IV	
KHAR	Aug	28	0730	E	0900	D	296	1.00	H-alpha	Q		
KHAR	Aug	28	0914	E	0914	U	0925	D	055	0.27	H-alpha	S
KHAR	Aug	28	0956	E	1002	D	103	1.00-1.04	H-alpha	S		
KHAR	Aug	29	0917	E	0959	D	103	1.00-1.07	H-alpha	SP		
WROC	Aug	29	0925				109	0.1	H-alpha	A		
WROC	Aug	30	1025				264	0.2	H-alpha	A		

ACTIVE PROMINENCES AND FILAMENTS

AUGUST 1990

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
01	APR	0025	0125D	N55	W90	07	24.3	1				C	VORO		
01	ADF	0026	0125D	N42	W06	07	31.5	1				C	VORO		
01	APR	0104	0125D	N03	E90	08	7.8	1				C	VORO		
01	ASR	0210E	0944D	N24	E90	08	8.0			8	7	E	LEAR	6185	
01	AFS	0508E	0944D	S25	W35	07	29.6		03	9	9	E	LEAR	6172	
01	AFS	0508E	0944D	S25	W38	07	29.4		02	9	9	E	LEAR	6172	
01	ADF	0645E	1728D	N17	E16	08	2.5	1	07	9	9	E	SVTO	6180	
01	DSD	0647E	0924D	N15	E01	08	1.3		03	9	9	E	SVTO	6179	
01	SSB	0757		155	W08	08	5.4			0	0	E	SVTO		122 W25
01	AFS	1040E	2129D	S26	W38	07	29.6		03	9	9	E	RAMY	6172	
01	ADF	1051E	1145D	S18	E31	08	3.8	1				V	KHAR		
01	ADF	1055E	1145D	S24	W39	07	29.5	1				V	KHAR		
01	SSB	1105		161	W16	08	6.1			0	0	E	RAMY		216 W71
01	ADF	1110E	2110D	N17	E13	08	2.4	1	06	9	9	E	RAMY	6180	
01	AFS	1110E	2129D	N10	W49	07	28.9		02	9	9	E	RAMY	6171	
01	DSD	1209E	1416D	S29	W38	07	29.6		04	9	9	E	SVTO	6172	Flare Associated
01	DSD	1240E	2129D	S25	W40	07	29.5		04	9	9	E	RAMY	6172	
01	DSD	1318E	2245D	N25	E66	08	6.7		04	9	9	E	HOLL	6185	
01	ADF	1324E	1925D	N14	E01	08	1.6	1	04	9	9	E	HOLL	6179	
01	AFS	1328E	2305D	S26	W37	07	29.8		04	9	9	E	HOLL	6172	
01	AFS	1347E	2305D	N09	W48	07	29.1		02	9	9	E	HOLL	6171	
01	ADF	1351E	2305D	N06	E82	08	7.7	1	13	9	9	E	HOLL		
01	SSB	1416		161	W18	08	6.2			0	0	E	HOLL		215 W72
01	AFS	1705E	0133D	N09	W50	07	29.0		02	9	9	E	PALE	6171	
01	AFS	1705E	0133D	S24	W43	07	29.5		04	9	9	E	PALE	6172	
01	ASR	1721E	0133D	N19	E90	08	8.6			9	9	E	PALE		
01	DSD	1721E	0133D	N26	E65	08	6.8		04	9	9	E	PALE	6185	
02	AFS	0225E	0859D	S26	W42	07	29.9		07	9	9	E	LEAR	6172	
02	AFS	0623E	1710D	N26	E60	08	6.9		01	9	9	E	SVTO	6185	
02	AFS	0632E	1710D	S27	W46	07	29.8		03	9	9	E	SVTO	6172	
02	ADF	0636E	1710D	S15	E51	08	6.1	1	06	9	9	E	SVTO		
02	SSB	1122		161	W30	08	7.3			0	0	E	RAMY		
02	AFS	1139E	1649D	N09	W62	07	28.9		02	9	9	E	RAMY	6171	
02	ADF	1157E	1558D	S25	W56	07	29.2	2	05	9	9	E	RAMY	6172	
02	DSD	1158E	1558D	S26	W51	07	29.6		04	9	9	E	RAMY	6172	
02	ASR	1201E	1541D	S20	W90	07	26.7			9	9	E	RAMY	6164	
02	AFS	1314E	0122D	N08	W60	07	29.1		03	9	9	E	HOLL	6171	
02	AFS	1315E	0122D	S26	W51	07	29.7		03	9	9	E	HOLL	6172	
02	ADF	1327E	0122D	N06	E66	08	7.5	1	04	9	9	E	HOLL		
02	SDF	1333E	1249D	S08	W23	07	31.8		07	0	0	E	HOLL		
02	SDF	1539E	1430D	S39	W27	07	31.5		12	0	0	E	RAMY		
02	AFS	1608E	1649D	S25	W56	07	29.4		04	9	9	E	RAMY	6172	
02	AFS	1613E	1649D	N02	E14	08	3.7		02	9	9	E	RAMY		
02	ADF	1631E	1649D	N07	E65	08	7.5	1	12	9	9	E	RAMY		
02	DSD	1757E	1902D	S27	W53	07	29.7		05	9	9	E	HOLL	6172	
02	SSB	1815		159	W31	08	7.4			0	0	E	PALE		
02	AFS	1815E	0405D	N16	E58	08	7.1		02	9	9	E	PALE	6186	
02	AFS	1815E	0450D	N08	W66	07	28.9		02	9	9	E	PALE	6171	
02	AFS	1815E	0450D	N24	E60	08	7.4		02	9	9	E	PALE	6185	
02	AFS	1815E	0450D	S26	W54	07	29.7		03	9	9	E	PALE	6172	
02	DSD	1815E	0450D	S26	W57	07	29.4		03	9	9	E	PALE	6172	
02	SSB	2027		128	W01	08	4.9			0	0	E	HOLL		160 W33
03	AFS	0817E	1641D	N07	W72	07	29.0		02	9	9	E	SVTO	6171	
03	DSD	1038E	1325D	S06	E32	08	5.8		03	9	9	E	RAMY	6187	
03	ADF	1039E	1932D	N04	E58	08	7.8	1	15	9	9	E	RAMY	6189	
03	AFS	1048E	1659D	N17	W27	08	1.4		02	9	9	E	RAMY	6179	
03	DSD	1053E	1336D	S27	W60	07	29.9		07	9	9	E	RAMY	6172	
03	AFS	1056E	1649D	S11	W27	08	1.4		02	9	9	E	RAMY	6181	
03	SSB	1122		127	W08	08	5.5			0	0	E	RAMY		162 W43
03	SDF	1249E	1345D	N04	W37	07	31.8		28	0	0	E	HOLL		
03	SSB	1300		127	W09	08	5.6			0	0	E	HOLL		157 W39
03	APR	1305E	1805D	S23	W90	07	27.7	1		9	9	E	HOLL		
03	DSD	1305E	1810D	S25	W70	07	29.2		02	8	9	E	HOLL	6172	
03	DSD	1320E	1430D	S14	E34	08	6.1		04	9	9	E	HOLL		Flare Associated
03	DSD	1324E	1627D	S16	E34	08	6.1		03	9	9	E	RAMY		Flare Associated
03	ADF	1340E	1641D	S21	W54	07	30.5	1	12	9	9	E	SVTO	6177	
03	AFS	1430E	2237D	S10	W29	08	1.4		02	9	9	E	HOLL		
03	SDF	1430E	1131D	N05	W39	07	31.7	3	29	0	0	E	RAMY		

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
03	AFS	1440E	1755D	N16	W29	08 1.4		02	9	9	E	HOLL	6179	
03	SDF	1641E	0656D	N10	W35	08 1.1		35	0	0	E	SVTO		
03	SSB	1650		168	W42	08 9.3			0	0	E	PALE		126 W10
03	AFS	1650E	0349D	N16	W30	08 1.4		02	8	8	E	PALE	6179	
03	AFS	1650E	0412D	N16	E46	08 7.2		03	9	9	E	PALE	6186	
03	AFS	1650E	0412D	S11	W30	08 1.4		03	9	9	E	PALE		
03	APR	1650E	0412D	S24	W90	07 27.8			9	9	E	PALE		
03	DSD	1650E	1808D	S21	W76	07 29.0		04	9	9	E	PALE	6172	
03	APR	1900E	2237D	S23	W90	07 27.9			6	6	E	HOLL		
04	ASR	0317E	0412D	N08	W90	07 28.5			9	9	E	PALE	6171	
04	DSD	0603E	0752D	S28	W70	07 29.9		04	9	9	E	SVTO	6172	
04	AFS	0603E	1005D	S27	W71	07 29.8		03	9	9	E	SVTO	6172	
04	ADF	0604E	0820D	N15	E35	08 6.9	1	04	9	9	E	SVTO	6186	
04	ADF	0606E	0950D	N25	E36	08 7.0	1	04	9	9	E	SVTO	6185	
04	ADF	0607E	1358D	N22	E36	08 7.0	1	03	9	9	E	SVTO	6185	
04	ADF	0608E	1733D	N25	E44	08 7.7	1	08	9	9	E	SVTO	6188	
04	ADF	0612E	0920D	S15	W37	08 1.4	1	04	9	9	E	SVTO	6191	
04	SSB	0722		128	W20	08 6.4			0	0	E	SVTO		
04	SDF	0920E	0935D	S15	W37	08 1.6	1	04	0	0	E	SVTO	6191	
04	SDF	0950E	1005D	N25	E36	08 7.2	1	04	0	0	E	SVTO	6185	
04	DSD	1036E	1216D	S05	E19	08 5.9		03	9	9	E	RAMY	6187	
04	AFS	1036E	2236D	S07	E22	08 6.1		02	9	9	E	RAMY	6187	
04	ADF	1038E	1826D	N08	E41	08 7.5	1	08	9	8	E	RAMY	6189	
04	AFS	1040E	2236D	N16	E34	08 7.0		02	9	9	E	RAMY	6186	
04	ASR	1049E	2236D	N25	E75	08 10.3			9	9	E	RAMY	6172	
04	AFS	1051E	2236D	S10	W40	08 1.4		02	9	9	E	RAMY	6191	
04	AFS	1059E	1945D	S25	W76	07 29.7		03	9	9	E	RAMY	6172	
04	AFS	1115E	1943D	S08	W32	08 2.1		02	9	9	E	RAMY	6184	
04	ASR	1116E	2236D	N08	W90	07 28.8			9	9	E	RAMY	6171	
04	SSB	1124		127	W05	08 6.5			0	0	E	RAMY		
04	BSD	1151	1216D	S25	W76	07 29.7		03	9	9	E	RAMY	6172	
04	AFS	1311E	1941D	S20	E65	08 9.5		02	9	9	E	RAMY		
04	SSB	1405		127	W23	08 6.7			0	0	E	HOLL		158 W54
04	BSD	1410E	1440D	S26	W76	07 29.8		02	9	9	E	HOLL	6172	
04	DSD	1435E	1740D	N25	E48	08 8.3		04	9	9	E	HOLL	6188	
04	APR	1455E	1738D	S30	W90	07 28.6	2		9	9	E	HOLL	6172	
04	ADF	1535E	0132D	N09	E38	08 7.5	1	12	9	9	E	HOLL	6189	
04	DSD	1554E	1940D	N17	E26	08 6.6		03	9	9	E	RAMY	6186	
04	LPS	1730E	1809D	N12	W90	07 29.0			9	9	E	PALE	6171	
04	SDF	1733E	0827D	N01	E41	08 7.8		09	0	0	E	SVTO		
04	SDF	1733E	0827D	N08	E45	08 8.1		06	0	0	E	SVTO		
04	ADF	1753E	0452D	N09	E38	08 7.6		07	9	9	E	PALE	6189	
04	DSD	1753E	0452D	N22	E47	08 8.3		04	9	9	E	PALE	6186	
04	DSD	1753E	0452D	S09	W35	08 2.1		03	9	9	E	PALE	6184	
04	DSD	1753E	0452D	S11	W45	08 1.3		02	9	9	E	PALE	6191	
04	ASR	1753E	0452D	S27	W90	07 28.8			9	9	E	PALE	6172	
04	CRN	1812E	2338D	S26	W90	07 28.9		07	8	8	E	HOLL	6172	
04	AFS	1946E	2236D	S17	E11	08 5.6		02	9	9	E	RAMY		
04	AFS	1950E	2236D	S13	E48	08 8.4		02	8	8	E	RAMY		
04	ASR	2335E	0132D	S26	W90	07 29.1			9	9	E	HOLL	6172	
05	BSL	0015	0030	N10	W90	07 29.3	1				C	VORO		
05	ADF	0016	0144	N48	W59	07 31.0	1				C	VORO		
05	APR	0016	0144D	N42	E90	08 12.4	1				C	VORO		
05	SSB	0502		129	W46	08 7.6			0	0	E	SVTO		
05	ASR	0547E	1731D	S27	W90	07 29.3			9	9	E	SVTO	6172	
05	ADF	0549E	1100D	N07	E32	08 7.6	1	12	9	9	E	SVTO	6189	
05	AFS	0635E	1731D	S06	E10	08 6.0		03	8	8	E	SVTO	6187	
05	ADF	0636E	1100D	S11	E15	08 6.4	1	05	6	8	E	SVTO		
05	AFS	0636E	1731D	S12	W53	08 1.3		02	8	9	E	SVTO	6191	
05	AFS	0637E	1731D	S17	E06	08 5.7		02	6	7	E	SVTO		
05	AFS	0932E	1731D	S18	W55	08 1.2		02	9	9	E	SVTO		
05	AFS	1024E	1101D	N04	E26	08 7.4		02	9	9	E	RAMY	6189	
05	AFS	1028E	1650D	S10	W52	08 1.5		02	9	9	E	RAMY	6191	
05	AFS	1031E	1650D	S17	E04	08 5.7		02	9	9	E	RAMY		
05	AFS	1058E	1650D	S16	W55	08 1.3		02	9	9	E	RAMY		
05	ASR	1100E	1650D	S25	W90	07 29.6			9	9	E	RAMY	6172	
05	AFS	1126E	1355D	N15	E19	08 6.9		02	9	9	E	RAMY	6186	
05	AFS	1216E	1618D	S21	E23	08 7.3		02	8	8	E	RAMY		



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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
05	AFS	1252E	1650D	N22	E34	08 8.1		02	9	9	E	RAMY	6188	
05	APR	1300E	1731D	S13	W90	07 29.8	2		9	9	E	SVTO	6174	
05	ASR	1357E	0115D	S25	W90	07 29.7			9	9	E	HOLL	6172	
05	ADF	1605E	1650D	N04	E29	08 7.8	1	10	9	9	E	RAMY	6189	
05	DSD	1615E	2305D	N25	E17	08 7.0		02	9	9	E	HOLL	6185	
05	AFS	1618E	0115D	N23	E33	08 8.2		03	9	9	E	HOLL	6188	
05	AFS	1640E	1731D	S18	E48	08 9.3		02	8	8	E	SVTO		
05	SSB	1722		127	W38	08 7.9			0	0	E	HOLL		
05	ADF	1808E	0440D	N08	E23	08 7.5		07	9	9	E	PALE	6189	
05	ADF	1808E	0440D	N12	E17	08 7.0		06	9	9	E	PALE	6186	
05	AFS	1808E	0440D	N22	E32	08 8.2		04	9	9	E	PALE	6188	
05	ADF	1808E	0440D	N24	W37	08 2.9	1	18	9	9	E	PALE	6180	
05	DSD	1808E	0440D	S11	W59	08 1.3		02	9	9	E	PALE	6191	
05	ADF	1808E	0440D	S13	E08	08 6.3		04	8	6	E	PALE		
05	APR	1935E	1938D	N72	E61	08 11.4			9	9	E	HOLL	6172	
05	APR	1935E	1938D	S30	W90	07 29.8			9	9	E	HOLL	6172	
05	AFS	1943E	0115D	S10	W60	08 1.3		03	9	9	E	HOLL	6191	
05	AFS	1946E	0115D	S17	W59	08 1.3		01	9	9	E	HOLL	6193	
05	ASR	2109E	0440D	S22	W90	07 30.1			9	9	E	PALE	6172	
06	ADF	0100E	0115D	N29	E11	08 6.9	1	06	9	9	E	HOLL	6185	
06	ASR	0332E	0342D	S21	W90	07 30.3			9	9	E	LEAR	6172	
06	SDF	0440E	1929D	S32	W23	08 4.4		08	0	0	E	PALE		
06	ASR	0450E	1230D	S26	W90	07 30.3			9	9	E	SVTO	6172	
06	AFS	0451E	1715D	S18	W07	08 5.7	1	02	9	9	E	SVTO	6192	
06	ADF	0452E	1715D	N09	W54	08 2.1	1	20	9	9	E	SVTO	6180	Flare Associated
06	SSB	0502		129	W46	08 8.6			0	0	E	SVTO		
06	DSD	0905E	0915D	N22	E22	08 8.1	1				V	KHAR		
06	AFS	1030E	2058D	S17	W66	08 1.4		02	9	9	E	RAMY	6193	
06	ADF	1032E	2058D	S15	E09	08 7.1	1	08	9	9	E	RAMY	6192	
06	AFS	1032E	2103D	S17	E11	08 7.3		03	9	9	E	RAMY	6192	
06	ADF	1039E	2103D	N07	E14	08 7.5	1	07	9	9	E	RAMY	6189	
06	ASR	1305E	1455D	S18	W90	07 30.8			8	9	E	SVTO	6191	
06	AFS	1615E	0046D	S07	E05	08 7.0		02	7	7	E	HOLL	6187	
06	SDF	1715E	0656D	S10	W57	08 2.4		09	0	0	E	SVTO		
06	APR	1719E	0309D	N13	W90	07 31.0			9	8	E	PALE	6179	
06	DSD	1719E	0309D	N18	W01	08 6.6		03	9	9	E	PALE	6186	
06	ADF	1719E	0309D	N24	W49	08 2.9		20	7	8	E	PALE	6180	
06	AFS	1719E	0309D	S05	W08	08 6.1		03	9	9	E	PALE	6187	
06	APR	1721E	0051D	S90	W11	08 5.7			8	8	E	HOLL	6174	
06	ADF	1731E	0309D	N09	E11	08 7.5		10	9	8	E	PALE	6189	
06	ADF	1731E	0309D	N27	E13	08 7.7		15	9	9	E	PALE	6188	
06	AFS	1731E	0309D	S16	W17	08 5.4		03	9	9	E	PALE	6192	
06	DSD	1915E	0054D	N06	E20	08 8.3		05	9	9	E	HOLL	6189	
06	ADF	2308E	0100D	N21	E15	08 8.1	1	03	9	9	E	HOLL	6185	
07	APR	0048E	0201D	S30	W90	07 31.0	1				C	VORO		
07	BSL	0113	0124	N18	E90	08 13.9	1				C	VORO		
07	DSD	0650E	0800D	S16	W24	08 5.5					P	BUCH		
07	DSD	0758E	0758D	S19	W25	08 5.4	1				V	KHAR		
07	BSD	0845E	1506D	N18	E83	08 13.7		04	9	9	E	SVTO		
07	ADF	0846E	1426D	N09	W69	08 2.2	1	17	9	9	E	SVTO	6180	
07	AFS	0847E	1506D	N21	E10	08 8.1	2	03	9	9	E	SVTO	6188	
07	AFS	0848E	1340D	S06	W19	08 5.9	1	02	9	9	E	SVTO	6187	
07	AFS	0849E	1506D	S19	W22	08 5.7		02	9	9	E	SVTO	6192	
07	AFS	0851E	1506D	S11	E73	08 12.9	1	02	9	9	E	SVTO	6195	
07	APR	0900E	1130D	N44	W90	07 31.0					V	ATHN		
07	APR	0905E	1130D	S28	W90	07 31.3					V	ATHN		
07	AFS	1028E	2222D	S22	W13	08 6.4		02	9	9	E	RAMY	6194	
07	AFS	1031E	2222D	S17	W23	08 5.7		03	9	9	E	RAMY	6192	
07	DSD	1035E	1410D	S18	W25	08 5.5		04	9	9	E	RAMY	6192	
07	ADF	1039E	2222D	N09	W02	08 7.3	1	06	9	9	E	RAMY	6189	
07	ASR	1049E	1415D	N15	E89	08 14.2			9	9	E	RAMY		
07	DSD	1140E	1417D	N06	W06	08 7.0		03	9	9	E	RAMY	6189	
07	SSB	1230		426	W01	08 5.6			0	0	E	RAMY		
07	ASR	1234E	2207D	S12	W88	07 31.9			9	9	E	RAMY	6184	446 W21 113 W66
07	AFS	1640E	0042D	N22	E07	08 8.2		02	9	9	E	PALE	6188	
07	ADF	1643E	0042D	N23	E02	08 7.8	1	05	9	9	E	PALE	6188	
07	AFS	1645E	0042D	S18	W28	08 5.6		03	9	9	E	PALE	6192	
07	AFS	1647E	0042D	S23	W18	08 6.3		02	9	9	E	PALE	6194	

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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	AFS	1650E	0042D	S12	E70	08	13.0		02	9	9	E	PALE	6195	
07	ADF	1714E	0042D	S18	W29	08	5.5	1	03	9	9	E	PALE	6192	
07	ASR	1720E	1930D	N10	E90	08	14.5			9	9	E	PALE		
07	SDF	1929E	2256D	N25	W27	08	5.7		12	0	0	E	PALE		
07	SDF	1929E	2256D	N45	E58	08	12.6		25	0	0	E	PALE		
07	DSD	1932E	0042D	N17	W09	08	7.1		02	9	9	E	PALE	6186	
07	AFS	1932E	0042D	N18	W12	08	6.9		02	9	9	E	PALE	6186	
07	ASR	1959E	0042D	N15	E90	08	14.6			7	7	E	PALE		
07	DSD	2243E	0016D	N15	W16	08	6.7		03	9	9	E	HOLL	6186	
07	AFS	2249E	0016D	S19	W32	08	5.5		03	9	9	E	HOLL	6192	
07	AFS	2249E	0016D	S21	W22	08	6.3		03	9	9	E	HOLL	6194	
07	AFS	2304E	0016D	S11	E64	08	12.8		02	9	9	E	HOLL	6195	
07	AFS	2341E	0958D	S18	W32	08	5.5		02	9	9	E	LEAR	6192	
07	AFS	2342E	0958D	S23	W23	08	6.2		02	9	9	E	LEAR	6194	
08	AFS	0030E	0958D	S10	E09	08	8.7		02	9	9	E	LEAR	6196	
08	DSD	0031	0215D	N21	W03	08	7.8		06	9	9	E	LEAR	6188	Flare Associated
08	ASR	0031E	0958D	N15	E90	08	14.8			9	9	E	LEAR	6197	
08	AFS	0610E	1251D	S19	W34	08	5.7		02	9	9	E	SVTO	6192	
08	ADF	0610E	1251D	S20	W30	08	6.0	1	04	9	9	E	SVTO	6192	
08	AFS	0623E	1251D	S11	E60	08	12.8		02	9	9	E	SVTO	6195	
08	AFS	0638E	1251D	N16	E74	08	13.9		03	9	9	E	SVTO	6197	
08	AFS	0645E	1251D	S09	E07	08	8.8		02	7	5	E	SVTO	6196	
08	DSD	0840E	1251D	N15	E74	08	14.0		07	9	9	E	SVTO	6197	
08	ASR	0850E	0958D	N15	W90	08	1.5			9	9	E	LEAR	6180	
08	ASR	0919E	1251D	N14	W90	08	1.6			9	9	E	SVTO	6180	
08	AFS	0930E	1251D	S08	W34	08	5.8		02	7	7	E	SVTO	6187	
08	DSD	1140E	2125D	N13	E78	08	14.4		04	9	9	E	RAMY	6197	
08	AFS	1140E	2125D	N14	E79	08	14.4		03	9	9	E	RAMY	6197	
08	AFS	1140E	2125D	S18	W38	08	5.6		03	9	9	E	RAMY	6192	
08	DSD	1253E	0120D	N15	E67	08	13.6		06	9	9	E	HOLL	6197	
08	AFS	1255E	0115D	N29	W65	08	3.4		02	9	9	E	HOLL		
08	ADF	1312E	1603D	N22	W04	08	8.2	1	05	9	9	E	HOLL	6188	
08	ASR	1313E	2125D	N11	E90	08	15.3			9	9	E	RAMY		
08	ASR	1321E	2235D	N12	E90	08	15.3			9	9	E	HOLL		
08	ASR	1328E	2125D	S07	W83	08	2.3			9	9	E	RAMY	6184	
08	ASR	1331E	1557D	N08	E90	08	15.3			9	9	E	HOLL	6184	
08	SSB	1337	420	W09	08	7.1				0	0	E	RAMY		445 W34
08	ADF	1415E	0139D	S17	W36	08	5.8	1	06	9	9	E	HOLL	6192	
08	DSD	1434E	2125D	S18	W35	08	5.9		03	9	9	E	RAMY	6192	
08	ADF	1603E	2150D	N23	W04	08	8.4	1	09	9	9	E	HOLL	6188	
08	ADF	1700E	0442D	N27	W03	08	8.5	1	09	9	9	E	PALE	6188	
08	AFS	1701E	2000D	N29	W66	08	3.5		02	9	9	E	PALE	6198	
08	AFS	1728E	0442D	N14	E71	08	14.1		02	9	9	E	PALE	6197	
09	AFS	0015E	0439D	S22	W38	08	6.1		02	9	9	E	LEAR	6194	
09	AFS	0016E	0439D	S12	E49	08	12.7		02	9	9	E	LEAR	6195	
09	APR	0045E	0139D	N12	E90	08	15.8	1		7	8	E	HOLL		
09	AFS	0105E	0139D	S13	E48	08	12.7		02	9	9	E	HOLL	6195	
09	SSB	0107	425	W20	08	7.1				0	0	E	HOLL		133 W88
09	AFS	0120E	0139D	S41	E76	08	15.3		02	9	9	E	HOLL		
09	SDF	0139E	1305D	N24	W12	08	8.1		15	0	0	E	HOLL	6188	
09	BSL	0332E	0439D	N19	E90	08	16.0			9	9	E	LEAR		
09	SDF	0421E	1907D	S15	E10	08	9.9		21	0	0	E	PALE		
09	SDF	0421E	1907D	S21	W46	08	5.6		06	0	0	E	PALE		
09	ADF	0655E	0831D	N19	W75	08	3.6	1				P	BUCH		
09	BSL	0738E	0835D	N16	W90	08	2.5	1				V	KHAR		
09	ASR	0754E	1505D	N15	W90	08	2.5			9	9	E	SVTO	6180	
09	AFS	0756E	1717D	S11	E46	08	12.8		02	9	9	E	SVTO	6195	
09	AFS	0758E	1717D	S10	W08	08	8.7		02	9	9	E	SVTO	6196	
09	APR	0805E	0911D	S28	W90	08	2.3	1				V	KHAR		
09	AFS	0821E	1717D	S18	W49	08	5.6		01	9	9	E	SVTO	6192	
09	ASR	0846E	1717D	N20	E90	08	16.2			9	9	E	SVTO		
09	ADF	0925E	0955D	N27	W29	08	7.1	1				V	KHAR		
09	SDF	0938E	1022D	S10	W44	08	6.1	1	06	9	9	E	SVTO	6187	
09	SSB	0956	448	W48	08	5.4				0	0	E	SVTO		
09	ADF	1035E	1055D	N14	E56	08	13.7	1				V	KHAR		
09	ADF	1043E	1648D	S07	W48	08	5.8	1	07	9	9	E	RAMY	6187	
09	ADF	1043E	1654D	S19	W41	08	6.3	1	05	9	9	E	RAMY	6194	
09	ADF	1043E	1732D	N27	W11	08	8.6	1	09	9	9	E	RAMY	6188	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	NOAA/ USAF Sta Reg#	Remarks
09	AFS	1043E	1732D	S12	E45	08	12.8		03	9	9	E	RAMY 6195	
09	AFS	1043E	1732D	S18	W48	08	5.8		02	9	9	E	RAMY 6192	
09	AFS	1043E	1732D	S34	E47	08	13.2		02	9	9	E	RAMY	
09	ASR	1150E	1525D	N09	E90	08	16.2			9	9	E	RAMY	
09	ADF	1220E	1717D	S18	W52	08	5.5	1	07	9	9	E	SVTO 6192	
09	ADF	1315E	0142D	N22	W13	08	8.5	1	06	9	9	E	HOLL 6188	
09	AFS	1320E	1740D	S22	W53	08	5.5		02	8	8	E	HOLL 6192	
09	ADF	1325E	1745D	S25	W43	08	6.2	1	04	9	9	E	HOLL 6194	
09	ADF	1331E	1505D	S22	W38	08	6.6	2	09	9	9	E	SVTO 6194	
09	SSB	1340		423	W25	08	7.8			0	0	E	HOLL	445 W47
09	AFS	1415E	1934D	N12	E72	08	15.0		02	9	9	E	HOLL 6199	
09	SSB	1655		422	W25	08	8.0			0	0	E	PALE	442 W46
09	AFS	1655E	0445D	N14	E55	08	13.9		03	9	9	E	PALE 6197	
09	ADF	1655E	0445D	N23	W16	08	8.5	1	06	9	9	E	PALE 6188	
09	AFS	1655E	0445D	S07	W51	08	5.9		02	9	9	E	PALE 6187	
09	AFS	1655E	0445D	S12	E41	08	12.8		02	9	9	E	PALE 6195	
09	ADF	1655E	0445D	S14	W52	08	5.8		11	9	9	E	PALE 6192	
09	DSD	1655E	1933D	S10	E53	08	13.7		02	8	8	E	PALE 6200	
09	APR	1903E	2033D	N02	E90	08	16.5			9	9	E	PALE	
09	ASR	1914E	2015D	N14	E90	08	16.6			9	9	E	HOLL	
09	APR	1915E	2030D	N13	E90	08	16.6			9	9	E	PALE	
09	ASR	1920E	2048D	N12	W88	08	3.2			9	9	E	PALE 6201	
10	AFS	0227E	0950D	S16	W60	08	5.5		04	8	7	E	LEAR 6192	
10	SSB	0445		395	W06	08	3.1			0	0	E	SVTO	420 W31
10	ASR	0740E	0920D	N28	W90	08	3.3			9	9	E	SVTO 6198	
10	ADF	0740E	1717D	N17	E47	08	13.9	1	04	9	9	E	SVTO 6197	
10	APR	0830E	1120D	N53	W90	08	2.6					V	ATHN	
10	ADF	0850E	0900D	N23	W21	08	8.7	1				V	KHAR	
10	DSD	1035E	1052	S24	E13	08	11.4	1				V	KHAR	
10	ADF	1104E	1623D	N13	E63	08	15.2	1	05	9	9	E	RAMY 6199	
10	AFS	1107E	1947D	N15	E47	08	14.0		02	9	9	E	RAMY 6197	
10	ADF	1115E	1947D	N25	W25	08	8.5	1	08	9	9	E	RAMY 6188	
10	AFS	1128E	1627D	S33	E35	08	13.2		03	9	9	E	RAMY 6204	
10	SSB	1220		392	W07	08	3.6			0	0	E	RAMY	422 W37 446 W61
10	AFS	1302E	1947D	N11	E58	08	14.9		03	9	9	E	RAMY 6199	
10	AFS	1312E	1926D	N13	E60	08	15.1		03	9	9	E	HOLL 6199	
10	ADF	1313E	0123D	N21	E79	08	16.6	1	06	9	9	E	HOLL 6203	
10	DSD	1314E	2111D	N15	E44	08	13.9		02	9	9	E	HOLL 6197	
10	ADF	1321E	0150D	N21	W37	08	7.7	1	10	9	9	E	HOLL 6188	
10	ASR	1325E	1914D	N21	W90	08	3.6			9	9	E	HOLL	
10	AFS	1331E	0142D	S12	E29	08	12.7		02	9	9	E	HOLL 6195	
10	APR	1418E	0142D	S16	W90	08	3.8	1		8	8	E	HOLL	
10	APR	1418E	1918D	S26	W90	08	3.6	1		9	9	E	HOLL	
10	AFS	1419E	0142D	S18	E14	08	11.7		02	9	9	E	HOLL	
10	SSB	1435		392	W08	08	3.7			0	0	E	HOLL	421 W37 444 W60
10	SDF	1610E	1540D	N42	W03	08	10.4		06	0	0	E	HOLL	
10	ASR	1610E	1915D	N21	E90	08	17.6			9	9	E	HOLL	
10	SSB	1655		393	W10	08	3.7			0	0	E	PALE	421 W33 447 W64
10	ASR	1655E	0326D	N21	W90	08	3.8			9	9	E	PALE	
10	ADF	1655E	0326D	N22	W37	08	7.9		11	9	9	E	PALE 6188	
10	ASR	1655E	0326D	N23	E90	08	17.6			9	9	E	PALE	
10	ASR	1655E	0326D	S13	E90	08	17.5			9	9	E	PALE	
10	AFS	1655E	0326D	S18	E12	08	11.6		03	9	9	E	PALE 6205	
10	AFS	1655E	0326D	S35	E31	08	13.2		02	9	9	E	PALE 6204	
10	LPS	1850E	2058D	N17	E73	08	16.3			7	6	E	HOLL 6203	Flare Associated
10	LPS	1850E	1947D	N16	E72	08	16.2			9	9	E	PALE 6203	Flare Associated
10	AFS	1900E	0326D	N22	W37	08	7.9		02	9	9	E	PALE 6188	
10	SDF	2058	2203D	S25	W32	08	8.4		05	0	0	E	HOLL 6188	
10	ASR	2107E	0142D	N21	E90	08	17.8			9	9	E	HOLL	
10	ASR	2211E	0121D	S18	W77	08	5.1			9	9	E	HOLL 6192	
11	ASR	0049E	0950D	N21	E90	08	17.9			9	9	E	LEAR	
11	ASR	0457E	0950D	S19	W90	08	4.3			9	9	E	LEAR 6192	
11	ASR	0457E	1210D	S20	W90	08	4.3			9	9	E	SVTO 6192	
11	ASR	0533E	1715D	N23	E90	08	18.2			9	9	E	SVTO	
11	AFS	0918E	1530D	S13	E18	08	12.7		02	7	9	E	SVTO 6195	
11	AFS	0927E	1715D	S08	W49	08	7.7		01	9	9	E	SVTO 6207	
11	AFS	0936E	1530D	N14	E49	08	15.1		03	6	8	E	SVTO 6199	
11	DSD	1009E	1020D	N21	W65	08	6.4	1				V	KHAR	

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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
11	ASR	1047E	1832D	N21	E90	08 18.3			9	9	E	RAMY		
11	ADF	1048E	1832D	N19	E67	08 16.6	1	07	9	9	E	RAMY	6203	
11	AFS	1050E	1832D	N12	E44	08 14.8		02	9	9	E	RAMY	6199	
11	AFS	1051E	1527D	N14	E33	08 13.9		02	9	9	E	RAMY	6197	
11	ADF	1055E	1832D	N22	W55	08 7.2	1	05	9	9	E	RAMY	6185	
11	AFS	1058E	1832D	S06	W50	08 7.7		02	9	9	E	RAMY		
11	AFS	1104E	1832D	N02	E61	08 16.0		02	9	9	E	RAMY		
11	SSB	1124		393	W21	08 4.3			0	0	E	RAMY		412 W39
11	AFS	1211E	1715D	N04	E61	08 16.1		01	8	9	E	SVTO	6208	
11	ASR	1224E	1527D	S21	W90	08 4.6			9	9	E	RAMY	6192	
11	ASR	1450E	2225D	N21	E90	08 18.5			9	9	E	HOLL		
11	ADF	1451E	2225D	N21	E60	08 16.2	1	07	9	9	E	HOLL	6203	
11	AFS	1452E	1843D	N12	E46	08 15.1		02	9	9	E	HOLL	6199	
11	ADF	1505E	2113D	S21	W73	08 6.0	2	11	9	9	E	HOLL	6194	
11	SSB	1518		395	W24	08 4.3			0	0	E	HOLL		425 W54
11	AFS	1522E	1658D	S12	E15	08 12.8		02	9	9	E	RAMY	6195	
11	ADF	1545E	1715D	N21	E65	08 16.6	1	04	9	9	E	SVTO	6203	
11	ASR	1722E	0320D	N21	E90	08 18.6			9	9	E	PALE		
11	DSD	1722E	0320D	N37	E32	08 14.3		06	9	9	E	PALE	6202	
11	AFS	1722E	0459D	N08	W53	08 7.7		05	9	9	E	PALE		
11	AFS	1722E	0459D	N12	E44	08 15.0		05	9	9	E	PALE	6199	
11	ADF	1722E	0459D	N19	W63	08 6.9		07	9	9	E	PALE	6185	
11	ADF	1722E	0459D	N26	W36	08 8.9		10	9	9	E	PALE	6188	
11	ADF	1722E	1724D	S21	E64	08 16.6		05	9	9	E	PALE	6206	
11	ASR	1824E	1832D	S20	W88	08 5.0			8	8	E	RAMY	6192	
11	SSB	2340		393	W26	08 4.8			0	0	E	PALE		407 W40
11	DSD	2340E	0320D	N03	E54	08 16.0		03	9	9	E	PALE	6208	
11	AFS	2344E	0459D	S06	W59	08 7.6		02	9	9	E	PALE	6207	
12	AFS	0002E	0951D	N15	E25	08 13.9		02	4	4	E	LEAR	6197	
12	AFS	0135E	0951D	N02	E53	08 16.0		03	8	7	E	LEAR		
12	ASR	0305E	0459D	S18	W88	08 5.4			9	9	E	PALE	6192	
12	ASR	0527E	0951D	N21	E90	08 19.1			9	9	E	LEAR	6209	
12	ASR	0530E	1723D	N23	E90	08 19.2			9	9	E	SVTO	6209	
12	ADF	0546E	0928D	N15	E30	08 14.5	1	06	9	9	E	SVTO	6199	
12	AFS	0546E	1723D	N14	E34	08 14.8	2	03	9	9	E	SVTO	6199	
12	ADF	0548E	0951D	N10	E29	08 14.4	1	07	9	9	E	LEAR	6199	
12	ADF	0620E	1723D	N19	E18	08 13.6	1	11	9	9	E	SVTO	6197	
12	DSD	0645E	0730D	N14	E35	08 14.9					P	BUCH		
12	BSL	0720E	0800D	N23	E90	08 19.2					P	BUCH		
12	SSB	1000		392	W32	08 5.1			0	0	E	SVTO		417 W57 425 W65
12	ASR	1128E	1418D	N23	E87	08 19.2			9	9	E	RAMY	6209	
12	AFS	1136E	2218D	N01	E45	08 15.8		02	9	9	E	RAMY	6208	
12	ADF	1139E	2218D	N14	E57	08 16.8	1	12	9	9	E	RAMY	6203	
12	AFS	1212E	1423D	S12	E02	08 12.6		02	9	9	E	RAMY	6195	
12	ADF	1212E	1638D	S11	E04	08 12.8	1	07	9	9	E	RAMY	6195	
12	APR	1214E	1648D	S23	W87	08 5.8	1		8	8	E	RAMY	6194	
12	DSD	1221E	1425D	N15	W73	08 7.0		03	7	7	E	RAMY	6186	
12	AFS	1226E	1648D	S03	E55	08 16.6		02	9	9	E	RAMY		
12	DSD	1311E	1341D	N04	E45	08 15.9		04	9	9	E	SVTO	6208	
12	SSB	1427		370	W12	08 7.3			0	0	E	RAMY		395 W37 424 W66
12	ADF	1543E	0019D	N21	E50	08 16.5	1	08	9	9	E	HOLL	6203	
12	ASR	1610E	2050D	N21	E82	08 19.0			9	9	E	RAMY	6209	
12	ASR	1742E	0458D	N11	E90	08 19.5			9	9	E	PALE		
12	APR	1742E	0458D	S22	W90	08 5.8			9	9	E	PALE	6194	
12	AFS	1807E	0458D	N03	E44	08 16.0		04	9	9	E	PALE	6208	
12	AFS	1807E	0458D	N10	E11	08 13.6		02	9	9	E	PALE	6200	
12	AFS	1807E	0458D	N12	E26	08 14.7		04	9	9	E	PALE	6199	
12	DSD	1807E	0458D	N18	W81	08 6.6		09	9	9	E	PALE	6185	
12	ADF	1807E	0458D	N21	W62	08 8.0		04	9	8	E	PALE	6188	
12	ADF	1807E	0458D	N22	E50	08 16.6	1	04	9	9	E	PALE	6203	
12	DSD	1807E	0458D	S14	W03	08 12.5		02	9	9	E	PALE	6195	
12	SSB	2053		393	W39	08 5.3			0	0	E	HOLL		421 W67
13	ASR	0008E	0053D	N22	E77	08 18.9			9	9	E	LEAR	6209	
13	ASR	0034E	0458D	S09	E90	08 19.8			9	9	E	PALE		
13	BSD	0045E	0345D	N23	E78	08 19.0		12	9	9	E	PALE	6209	
13	SDF	0243E	0447D	N45	E08	08 13.8		08	0	0	E	LEAR		
13	SDF	0243E	0550D	S40	W15	08 11.9		36	0	0	E	LEAR		
13	AFS	0503E	1720D	N18	W17	08 11.9		02	9	9	E	SVTO	6210	

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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	AFS	0504E	1720D	N14	E19	08	14.6	2	03	9	9	E	SVTO	6199	
13	AFS	0505E	1720D	S10	E04	08	13.5	1	03	9	9	E	SVTO	6200	
13	AFS	0506E	1720D	N03	E37	08	16.0		03	9	9	E	SVTO	6208	
13	AFS	0507E	1720D	S02	E45	08	16.6		02	8	9	E	SVTO	6211	
13	ASR	0508E	1350D	S08	E88	08	19.8			9	9	E	SVTO		
13	ADF	0509E	1720D	N23	E74	08	18.9	1	09	9	9	E	SVTO	6209	
13	APR	0605E	1720D	S23	W88	08	6.5	1		9	9	E	SVTO		
13	SSB	0606		146	W77	08	17.5			0	0	E	SVTO		418 W69 393 W44
13	BSL	0735E	0755D	S10	E90	08	20.1					P	BUCH		
13	ASR	1120E	1301D	S09	W88	08	6.9			9	9	E	SVTO	6207	
13	ASR	1120E	1720D	N11	W90	08	6.7			9	9	E	SVTO	6186	
13	AFS	1315E	1547D	S37	E01	08	13.6		02	9	9	E	RAMY	6211	
13	ADF	1316E	1547D	N20	E68	08	18.7	1	07	9	9	E	RAMY	6209	
13	ADF	1344E	1547D	N14	E33	08	16.1	1	06	9	9	E	RAMY	6203	
13	BSD	1345E	1500D	N16	E09	08	14.2		04	9	9	E	SVTO	6197	Flare Associated
13	AFS	1346E	1547D	S10	W02	08	13.4		03	9	9	E	RAMY	6200	
13	ADF	1347E	1547D	N09	E22	08	15.2	1	11	9	9	E	RAMY	6199	
13	AFS	1353E	1547D	S11	W12	08	12.7		02	9	9	E	RAMY	6195	
13	ASR	1355E	1547D	N13	W90	08	6.8			9	9	E	RAMY	6186	
13	AFS	1357E	1547D	N13	E15	08	14.7		02	9	9	E	RAMY	6199	
13	ADF	1357E	1547D	N28	W68	08	8.3	1	14	9	9	E	RAMY	6185	
13	SSB	1416		361	W16	08	9.0			0	0	E	RAMY		399 W54 425 W80
13	SDF	1536E	1629D	N25	W65	08	8.6	1	09	0	0	E	SVTO	6188	
13	SDF	1720E	0607D	S26	W31	08	11.3		47	0	0	E	SVTO		
13	DSD	1930E	0207D	S01	E37	08	16.6		02	9	9	E	PALE	6211	
13	AFS	1930E	0457D	N11	W05	08	13.4		04	9	9	E	PALE	6200	
13	ADF	1930E	0457D	N16	E08	08	14.4	1	09	9	8	E	PALE	6197	
13	ADF	1930E	0457D	N22	E36	08	16.6		07	9	9	E	PALE	6203	
13	DSD	1930E	2220D	N10	E21	08	15.4		03	9	9	E	PALE	6199	
13	ASR	2215E	0205D	N12	W90	08	7.1			9	9	E	PALE	6186	
13	SSB	2220		341	W01	08	10.9			0	0	E	PALE		394 W54
13	SSB	2319		394	W54	08	5.9			0	0	E	HOLL		420 W80
13	ASR	2320E	2332D	N14	W90	08	7.2			9	9	E	HOLL	6186	
13	AFS	2324E	2332D	N06	W15	08	12.8		03	9	9	E	HOLL		
14	ASR	0050E	0318D	N12	E90	08	20.8			9	9	E	PALE		
14	AFS	0207E	0457D	S01	E31	08	16.4		03	9	9	E	PALE	6211	
14	AFS	0444E	0757D	N11	E07	08	14.7		03	9	9	E	LEAR	6199	
14	AFS	0451E	0757D	S10	W11	08	13.4		03	9	9	E	LEAR	6200	
14	AFS	0457E	0757D	S02	E28	08	16.3		03	7	7	E	LEAR	6211	
14	AFS	0530E	0930D	S01	E29	08	16.4		02	9	9	E	SVTO	6211	
14	ASR	0530E	0932D	N18	W90	08	7.4			9	9	E	SVTO	6188	
14	AFS	0530E	1700D	N03	E24	08	16.0		02	9	9	E	SVTO	6208	
14	AFS	0530E	1700D	N12	E07	08	14.7		02	9	9	E	SVTO	6199	
14	AFS	0530E	1700D	S11	W10	08	13.5		02	9	9	E	SVTO	6200	
14	AFS	0530E	1700D	S12	W09	08	13.5		02	9	9	E	SVTO	6200	
14	SSB	0607		394	W58	08	6.0			0	0	E	SVTO		421 W85
14	ADF	0800E	1548D	N14	W08	08	13.7	1	07	6	8	E	SVTO	6197	
14	ADF	1420E	1942D	N18	W03	08	14.4	1	09	9	9	E	RAMY	6197	
14	AFS	1420E	2204D	N10	E33	08	17.1		02	9	9	E	RAMY	6216	
14	AFS	1420E	2205D	N04	E19	08	16.0		02	9	9	E	RAMY	6208	
14	AFS	1420E	2205D	N13	E03	08	14.8		03	9	9	E	RAMY	6199	
14	AFS	1432E	0122D	N11	E01	08	14.7		03	9	9	E	HOLL	6199	
14	SSB	1435		392	W61	08	6.5			0	0	E	HOLL		
14	AFS	1438E	0122D	N06	W25	08	12.7		01	9	9	E	HOLL		
14	AFS	1442E	0122D	N02	E18	08	15.9		02	8	8	E	HOLL	6208	
14	AFS	1622E	2205D	N24	E46	08	18.2		02	9	9	E	RAMY	6209	
14	AFS	1626E	2205D	N06	W26	08	12.7		02	9	9	E	RAMY	6213	
14	AFS	1628E	2205D	S09	W18	08	13.3		02	9	9	E	RAMY	6200	
14	ADF	1629E	2204D	S29	W16	08	13.4	1	04	9	9	E	RAMY	6204	
14	ADF	1632E	2205D	S17	E38	08	17.6	1	05	9	9	E	RAMY	6206	
14	SSB	1642		420	W90	08	12.8			0	0	E	RAMY		
14	AFS	1750E	0448D	N03	E18	08	16.1		02	8	7	E	PALE	6208	
14	AFS	1750E	0448D	N12	W01	08	14.7		01	9	9	E	PALE	6199	
14	AFS	1750E	0448D	N19	E19	08	16.2		02	9	9	E	PALE	6203	
14	AFS	1750E	0448D	S10	W17	08	13.5		02	9	9	E	PALE	6200	
14	DSD	2222E	2351D	N23	E43	08	18.2		03	9	9	E	HOLL	6209	Flare Associated
15	AFS	0006E	0122D	N22	E41	08	18.1		03	9	9	E	HOLL	6209	
15	AFS	0008E	0122D	S18	W42	08	11.8		02	9	8	E	HOLL	6205	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
15	AFS	0230E	0507D	N12	W07	08	14.6		02	7	7	E	LEAR	6199	
15	AFS	0230E	0507D	S18	W45	08	11.7		02	9	9	E	LEAR	6205	
15	AFS	0231E	0507D	N02	E11	08	15.9		03	9	9	E	LEAR	6208	
15	AFS	0231E	0507D	N05	W31	08	12.8		02	9	9	E	LEAR	6213	
15	ADF	0817E	0900D	N07	W38	08	12.5	1				V	KHAR		
15	AFS	0955E	1655D	N11	W10	08	14.7		02	9	9	E	SVTO	6199	
15	ADF	1045E	1055	N07	W38	08	12.6	1				V	KHAR		
15	ADF	1048	1116	S30	E65	08	20.6	1				V	KHAR		
15	ADF	1103E	1125D	S18	E25	08	17.4	1				V	KHAR		
15	AFS	1114E	2021D	N11	W11	08	14.6		03	9	9	E	RAMY	6199	
15	DSD	1131E	1348D	N06	W38	08	12.6		02	6	5	E	RAMY	6213	
15	AFS	1131E	2021D	N05	W34	08	12.9		04	9	9	E	RAMY	6213	
15	DSD	1347E	2325D	N70	E13	08	16.7		03	9	9	E	HOLL	6215	
15	ADF	1351E	1902D	N15	W18	08	14.2	1	07	9	9	E	RAMY	6199	
15	ASR	1407	1537D	N14	E90	08	22.4			9	9	E	RAMY		
15	AFS	1409E	2021D	N03	E04	08	15.9		03	9	9	E	RAMY	6208	
15	AFS	1414E	0132D	N11	W12	08	14.7		02	9	9	E	HOLL	6199	
15	ASR	1422E	2325D	N13	E90	08	22.4			9	9	E	HOLL		
15	AFS	1628E	1655D	N06	W39	08	12.8		03	9	9	E	SVTO	6213	
15	AFS	1802E	0443D	N12	W11	08	14.9		02	9	9	E	PALE	6199	
15	DSD	1802E	0443D	S18	E26	08	17.7		02	9	9	E	PALE	6213	
15	SDF	1814E	1419D	N41	W39	08	12.6		07	0	0	E	HOLL		
15	AFS	1928E	2021D	S10	W34	08	13.2		02	9	9	E	RAMY	6200	
15	AFS	1931E	2021D	S10	E49	08	19.5		02	9	9	E	RAMY	6214	
15	AFS	2007E	2021D	N10	E64	08	20.6		02	9	9	E	RAMY	6215	
15	AFS	2323E	0924D	N12	W16	08	14.8		03	9	9	E	LEAR	6199	
15	AFS	2325E	0132D	N06	W44	08	12.7		02	8	8	E	HOLL	6213	
15	DSD	2325E	0132D	N22	E28	08	18.1		02	9	9	E	HOLL	6209	
15	AFS	2325E	0132D	S10	E50	08	19.7		02	9	9	E	HOLL	6214	
15	AFS	2325E	0132D	S27	E55	08	20.3		02	9	9	E	HOLL	6212	
15	AFS	2326E	0924D	N06	W44	08	12.7		03	9	9	E	LEAR	6213	
15	AFS	2336E	0924D	N03	E00	08	16.0		03	9	9	E	LEAR	6208	
15	SSB	2337		359	W46	08	11.1			0	0	E	HOLL		
16	DSD	0053E	0443D	N01	W02	08	15.9		03	9	9	E	PALE	6208	
16	DSD	0053E	0443D	S09	E46	08	19.5		03	9	9	E	PALE	6214	
16	ADF	0053E	0443D	S13	W38	08	13.2		05	9	6	E	PALE	6200	
16	SDF	0118E	0044D	S14	E07	08	16.6		07	0	0	E	LEAR		
16	APR	0130	0201D	N14	W90	08	9.3	1				C	VORO		
16	APR	0130	0201D	S13	W90	08	9.3	1				C	VORO		
16	BSD	0725E	0740D	S13	E12	08	17.2					P	BUCH		
16	APR	0850E	0900D	S12	W90	08	9.6	1				V	KHAR		
16	AFS	0930E	1643D	N10	W23	08	14.7		03	9	9	E	SVTO	6199	
16	ADF	0935E	1643D	N15	W35	08	13.7	1	05	6	9	E	SVTO	6197	
16	ADF	1010	1048D	S05	W01	08	16.3	1				V	KHAR		
16	DSD	1015E	1028	N21	W05	08	16.0	1				V	KHAR		
16	ADF	1035E	1105D	S10	E39	08	19.4	1				V	KHAR		
16	ADF	1050	1120D	N17	E60	08	21.0	1				V	KHAR		
16	AFS	1057E	2011D	N12	W24	08	14.6		04	9	9	E	RAMY	6199	
16	AFS	1058E	2011D	S02	W01	08	16.4		03	9	9	E	RAMY	6211	
16	AFS	1059E	2011D	N06	W51	08	12.6		02	9	9	E	RAMY	6213	
16	ADF	1105	1118	S19	E10	08	17.2	1				V	KHAR		
16	ADF	1108E	1647D	S36	W29	08	14.1	1	06	9	9	E	RAMY	6202	
16	AFS	1110E	1639D	N17	E08	08	17.1		02	9	9	E	RAMY	6206	
16	DSD	1113E	1517D	N09	E57	08	20.7		05	9	9	E	RAMY	6215	
16	AFS	1114E	2011D	N10	E57	08	20.7		02	9	9	E	RAMY	6215	
16	DSD	1115E	2011D	N13	E73	08	22.0		02	9	9	E	RAMY		
16	AFS	1120E	2011D	N09	E09	08	17.1		02	9	9	E	RAMY	6216	
16	AFS	1122E	2011D	N03	W07	08	15.9		02	9	9	E	RAMY	6208	
16	AFS	1122E	2011D	S11	E43	08	19.7		02	9	9	E	RAMY	6214	
16	DSD	1123E	1517D	N04	W12	08	15.6		02	9	9	E	RAMY	6208	
16	AFS	1129E	1643D	S09	W42	08	13.3		02	9	9	E	RAMY	6200	
16	SSB	1202		309	W03	08	15.8			0	0	E	RAMY		
16	AFS	1350E	0007D	N12	W22	08	14.9		03	9	9	E	HOLL	6199	
16	AFS	1402E	0007D	N11	E07	08	17.1		02	9	9	E	HOLL	6216	
16	AFS	1402E	0007D	S01	W01	08	16.5		02	9	9	E	HOLL	6211	
16	AFS	1402E	0007D	S08	E41	08	19.6		02	9	9	E	HOLL	6214	
16	SSB	1418		315	W10	08	15.5			0	0	E	HOLL		354 W49
16	DSD	1443E	0007D	N10	E54	08	20.7		03	9	9	E	HOLL	6215	
16	DSD	1500E	0007D	N13	E73	08	22.1		02	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
16	SDF	1643E	0610D	N17	W34	08	14.1		04	0	0	E	SVTO	6197	
16	SSB	1655		305	W01	08	16.3			0	0	E	PALE		354 W50
16	AFS	1655E	0443D	N04	W10	08	15.9		02	9	9	E	PALE	6208	
16	AFS	1655E	0443D	N07	E04	08	17.0		03	9	9	E	PALE	6216	
16	AFS	1655E	0443D	N11	W27	08	14.7		03	9	9	E	PALE	6199	
16	ADF	1655E	0443D	N17	W26	08	14.7		07	9	9	E	PALE	6199	
16	AFS	1655E	0443D	S02	W04	08	16.4		02	9	9	E	PALE	6211	
16	DSD	1655E	2113D	N15	E72	08	22.1		03	9	9	E	PALE	6219	
16	SDF	1655E	0629D	N40	W37	08	13.7		07	0	0	E	SVTO		
16	ASR	1725E	2011D	S20	E90	08	23.6			7	7	E	RAMY		
16	DSD	1735E	1845D	N02	W16	08	15.5		02	9	9	E	RAMY	6208	
16	DSD	1828E	2011D	N12	E72	08	22.2		05	9	9	E	RAMY	6219	
16	AFS	1848E	2011D	N19	E73	08	22.3		02	9	9	E	RAMY		
16	DSD	1848E	2011D	N20	E75	08	22.5		05	9	9	E	RAMY		
16	AFS	1930E	2011D	S18	W08	08	16.2		02	9	9	E	RAMY		
16	AFS	1955E	0443D	S19	W06	08	16.4		03	9	9	E	PALE		
16	DSD	2008E	2200D	S20	W07	08	16.3		03	8	8	E	PALE		
16	BSD	2135	0443D	S10	E37	08	19.7		04	9	9	E	PALE	6214	
16	AFS	2144E	0007D	N03	W11	08	16.1		02	9	9	E	HOLL	6208	
16	DSD	2146E	0007D	N03	W11	08	16.1		04	9	8	E	HOLL	6199	
16	AFS	2146E	0007D	N05	W56	08	12.7		02	9	9	E	HOLL	6113	
16	APR	2227	0200D	N19	W90	08	10.1	1				C	VORO		
16	APR	2227	0200D	S19	W90	08	10.1	1				C	VORO		
16	AFS	2240E	0007D	S18	W09	08	16.2		01	9	9	E	HOLL		
16	ADF	2257	0200D	N66	E27	08	19.4	1				C	VORO		
16	AFS	2323E	0958D	N12	W30	08	14.7		03	9	9	E	LEAR	6199	
16	DSD	2347	0021D	S16	E04	08	17.3		06	9	9	E	PALE	6206	Flare Associated
17	AFS	0045E	0958D	N06	W01	08	16.9		03	9	9	E	LEAR	6216	
17	AFS	0051E	0958D	S02	W09	08	16.4		03	9	9	E	LEAR	6211	
17	AFS	0242E	0958D	S11	E34	08	19.7		03	9	9	E	LEAR	6214	
17	ASR	0420E	0443D	S10	E90	08	23.9			9	9	E	PALE		
17	ASR	0510E	0958D	S12	E90	08	24.0			9	9	E	LEAR		
17	AFS	0615E	1646D	N03	W61	08	12.7		02	9	9	E	SVTO	6213	
17	AFS	0615E	1646D	N06	W04	08	17.0		03	9	9	E	SVTO	6216	
17	AFS	0615E	1646D	N11	W34	08	14.7		03	9	9	E	SVTO	6199	
17	AFS	0615E	1646D	S09	E30	08	19.5		02	9	9	E	SVTO	6214	
17	AFS	0615E	1646D	S17	E29	08	19.5		02	9	9	E	SVTO		
17	ASR	0635E	1646D	S09	E90	08	24.0			9	9	E	SVTO		
17	BSD	0720E	0800D	N16	W33	08	14.8					P	BUCH		
17	ADF	0805E	0820	N15	W38	08	14.5	1				V	KHAR		
17	SSB	0820		242	W09	08	20.5			0	0	E	LEAR		
17	AFS	1037E	2119D	N05	W06	08	17.0		02	9	9	E	RAMY	6216	
17	AFS	1039E	2119D	N11	W34	08	14.9		03	9	9	E	RAMY	6199	
17	AFS	1040E	2119D	N04	W60	08	12.9		02	9	9	E	RAMY	6213	
17	DSD	1045E	1722D	S10	E24	08	19.2		03	9	9	E	RAMY	6214	
17	AFS	1045E	2119D	S11	E29	08	19.6		02	9	9	E	RAMY	6214	
17	AFS	1047E	2014D	S17	E26	08	19.4		02	9	9	E	RAMY		
17	AFS	1048E	1843D	S27	E35	08	20.2		02	9	9	E	RAMY	6212	
17	AFS	1050E	2012D	S17	E67	08	22.5		02	9	9	E	RAMY		
17	ASR	1051E	2119D	S12	E90	08	24.2			9	9	E	RAMY		
17	AFS	1053E	1851D	N12	E63	08	22.2		02	9	9	E	RAMY	6219	
17	DSD	1059E	1121D	S11	W61	08	12.9		02	9	9	E	RAMY	6200	
17	SSB	1109		307	W14	08	16.9			0	0	E	RAMY		317 W24
17	AFS	1312E	2353D	N04	W64	08	12.8		02	9	9	E	HOLL	6213	
17	AFS	1312E	2353D	N13	W37	08	14.7		03	8	7	E	HOLL	6199	
17	AFS	1320E	2353D	N06	W07	08	17.0		02	9	9	E	HOLL	6216	
17	AFS	1327E	2353D	S26	E34	08	20.2		02	9	9	E	HOLL	6212	
17	AFS	1334E	2353D	S16	E24	08	19.4		02	9	9	E	HOLL		
17	AFS	1430E	2119D	N03	W21	08	16.0		02	9	9	E	RAMY	6208	
17	SDF	1439E	1045D	N40	E06	08	18.1		30	0	0	E	RAMY		
17	ASR	1533E	2119D	S24	E09	08	18.3			9	9	E	RAMY		
17	DSD	1538E	1720D	S20	E71	08	23.1		02	9	9	E	RAMY		
17	AFS	1540E	2119D	N20	E63	08	22.5		02	9	9	E	RAMY		
17	AFS	1645E	0446D	N05	W09	08	17.0		03	9	9	E	PALE	6216	
17	AFS	1645E	0446D	N05	W63	08	13.0		02	9	9	E	PALE	6213	
17	AFS	1645E	0446D	N11	W38	08	14.8		03	9	9	E	PALE	6199	
17	AFS	1645E	0446D	S10	E23	08	19.4		03	9	9	E	PALE	6214	
17	DSD	1645E	0446D	S10	E26	08	19.6		08	9	9	E	PALE	6214	
17	AFS	1645E	0446D	S16	E68	08	22.8		03	9	9	E	PALE	6222	

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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
17	SDF	1646E	0440D	N36	W22	08	15.9		31	0	0	E	SVTO		
17	ASR	1705E	0446D	S13	E90	08	24.5			9	9	E	PALE		
17	ASR	1705E	0446D	S21	E89	08	24.5			9	9	E	PALE		
17	DSD	1705E	2000D	N01	W28	08	15.6		03	9	9	E	PALE	6208	
17	DSD	1839E	1945D	S10	E20	08	19.3		06	9	9	E	RAMY	6214	
17	ADF	1846E	2119D	S21	E74	08	23.4	1	11	9	9	E	RAMY	6222	
17	ADF	1858E	0446D	S10	E26	08	19.7	1	06	9	9	E	PALE	6214	
17	AFS	1920E	2353D	S10	E24	08	19.6		03	9	9	E	HOLL	6214	
17	DSD	1920E	1944D	S17	W03	08	17.6		04	9	9	E	RAMY	6206	Flare Associated
17	DSD	1928E	1959D	S18	W02	08	17.6		03	9	9	E	PALE	6206	Flare Associated
17	DSD	2005E	0446D	N18	W56	08	13.6		06	9	9	E	PALE	6197	
17	SDF	2025E	1600D	N40	W15	08	16.6		28	0	0	E	HOLL		
17	ASR	2048E	2340D	S20	E90	08	24.7			9	9	E	HOLL	6222	
17	ASR	2048E	2353D	S10	E90	08	24.6			9	9	E	HOLL	6223	
17	AFS	2053E	2353D	S22	W20	08	16.3		02	7	8	E	HOLL	6220	
17	DSD	2158E	2353D	S10	E17	08	19.2		06	9	9	E	HOLL	6214	
17	APR	2200	0048	S38	W90	08	10.6	1				C	VORO		
17	AFS	2208E	0446D	N20	E59	08	22.4		02	9	9	E	PALE		
17	APR	2226	0200D	S12	W90	08	11.1	1				C	VORO		
17	ASR	2317E	0955D	S20	E90	08	24.8			9	9	E	LEAR		
17	DSD	2325E	0955D	N10	W49	08	14.3		04	9	9	E	LEAR	6199	
17	AFS	2326E	0955D	S09	E20	08	19.5		03	9	9	E	LEAR	6214	
17	AFS	2327E	0955D	N07	W14	08	16.9		03	8	8	E	LEAR	6216	
17	ASR	2340E	2353D	S18	E90	08	24.8			9	9	E	HOLL		
17	DSD	2347	0021D	S16	E04	08	18.3	2	06	9	9	E	PALE	6206	
18	DSD	0026E	0400D	S10	E16	08	19.2		07	9	9	E	LEAR	6214	Flare Associated
18	AFS	0041E	0955D	N20	E57	08	22.4		02	9	9	E	LEAR		
18	SDF	0103E	0337D	N42	W12	08	17.0		32	0	0	E	LEAR		
18	AFS	0213E	0955D	N13	W44	08	14.8		03	9	9	E	LEAR	6199	
18	AFS	0232E	0955D	N12	E56	08	22.3		02	9	8	E	LEAR	6219	
18	SDF	0446E	1928D	N40	W04	08	17.9		35	0	0	E	PALE		
18	ASR	0720E	0955D	S17	E90	08	25.1			9	9	E	LEAR	6223	
18	ADF	0805E	1205D	N10	W46	08	14.9	1	05	9	9	E	SVTO	6199	
18	ADF	0806E	1205D	N07	W52	08	14.4	2	08	9	9	E	SVTO	6199	
18	AFS	0807E	1655D	N11	W47	08	14.8	1	03	9	9	E	SVTO	6199	
18	AFS	0808E	1655D	S10	E18	08	19.7	1	02	9	9	E	SVTO	6214	
18	AFS	0809E	1655D	S11	E16	08	19.5	1	02	9	9	E	SVTO	6214	
18	AFS	0810E	1655D	N05	W18	08	17.0	1	03	9	9	E	SVTO	6216	
18	AFS	0811E	1655D	N14	E52	08	22.3		02	9	9	E	SVTO	6219	
18	DSD	0812E	1655D	S10	E13	08	19.3		06	9	9	E	SVTO	6214	
18	ASR	0813E	1655D	S10	E85	08	24.7			9	9	E	SVTO	6223	
18	AFS	0814E	1655D	N22	E51	08	22.3		02	9	9	E	SVTO	6225	
18	ASR	0815E	1655D	S19	E90	08	25.2			9	9	E	SVTO		
18	BSL	0848E	0855	S23	E90	08	25.3	1				V	KHAR		
18	DSD	0928E	0942	S22	E80	08	24.5	1				V	KHAR		
18	AFS	1122E	1737D	N13	W44	08	15.1		02	9	9	E	RAMY	6199	
18	AFS	1122E	1737D	S34	W06	08	18.0		03	9	9	E	RAMY		
18	ASR	1130E	1737D	S23	E87	08	25.2			9	9	E	RAMY		
18	AFS	1205E	1655D	S34	W06	08	18.0	1	03	9	9	E	SVTO	6224	
18	ADF	1228E	1737D	S02	W28	08	16.4	1	04	9	9	E	RAMY	6211	
18	AFS	1228E	1737D	S18	W13	08	17.5		03	9	9	E	RAMY	6206	
18	BSD	1305E	1325D	S10	W70	08	13.3		04	9	9	E	SVTO	6200	
18	DSD	1309E	1737D	S09	E08	08	19.1		04	9	9	E	RAMY	6214	
18	AFS	1309E	1737D	S10	E14	08	19.6		03	9	9	E	RAMY	6214	
18	AFS	1314E	1737D	N07	W22	08	16.9		03	9	9	E	RAMY	6216	
18	AFS	1317E	1737D	N12	E49	08	22.2		03	9	9	E	RAMY	6219	
18	ADF	1327E	1737D	S17	E56	08	22.8	1	14	9	9	E	RAMY	6222	
18	SSB	1350		S05	W26	08	18.2			0	0	E	RAMY		313 W34
18	AFS	1510E	0141D	N12	W53	08	14.6		01	9	9	E	HOLL	6199	
18	AFS	1512E	1935D	S18	W16	08	17.4		03	9	9	E	HOLL	6206	
18	DSD	1514E	1937D	N23	W03	08	18.4		03	9	9	E	HOLL	6209	
18	ADF	1516E	1937D	S03	W30	08	16.4	1	03	9	9	E	HOLL	6211	
18	AFS	1518E	0141D	S10	E13	08	19.6		03	9	9	E	HOLL	6214	
18	AFS	1524E	0141D	N06	W24	08	16.8		03	9	9	E	HOLL	6216	
18	AFS	1526E	0141D	N13	E48	08	22.3		02	9	9	E	HOLL	6219	
18	AFS	1527E	0141D	S20	W31	08	16.3		02	9	9	E	HOLL	6220	
18	AFS	1532E	2335D	S35	W09	08	17.9		03	9	9	E	HOLL		
18	SSB	1559		S08	W30	08	18.0			0	0	E	HOLL		318 W40
18	SDF	1639E	1156D	S17	W56	08	14.4		08	0	0	E	RAMY		



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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
18	AFS	1645E	0446D	S16	E68	08	23.8		03	9	9	E	PALE	6222	
18	SDF	1655E	0456D	S33	W41	08	15.4		15	0	0	E	SVTO		
18	ASR	1705E	0446D	S13	E90	08	25.5			9	9	E	PALE		
18	ASR	1722E	0440D	S21	E90	08	25.6			9	9	E	PALE		
18	ADF	1742E	0440D	N20	W30	08	16.4		06	9	9	E	PALE	6203	
18	DSD	1742E	0440D	N23	W03	08	18.5		03	9	9	E	PALE	6209	
18	AFS	1742E	0440D	S11	E13	08	19.7		02	9	9	E	PALE	6214	
18	DSD	1742E	0440D	S34	E19	08	20.2		03	9	9	E	PALE	6212	
18	AFS	1759E	0440D	N06	W24	08	16.9		04	9	9	E	PALE	6216	
18	AFS	1759E	0440D	N13	E47	08	22.3		03	9	9	E	PALE	6219	
18	DSD	1759E	0440D	N14	E26	08	20.7		02	9	9	E	PALE	6215	
18	DSD	1759E	0440D	N20	E48	08	22.4		04	9	9	E	PALE	6225	
18	DSD	1759E	0440D	S22	W32	08	16.3		02	9	9	E	PALE	6220	
18	AFS	1759E	0440D	S36	W09	08	18.0		04	9	9	E	PALE	6224	
18	ASR	1800E	0141D	S22	E90	08	25.7			9	9	E	HOLL		
18	ADF	1858E	0446D	S10	E26	08	20.7	1	06	9	9	E	PALE	6214	
18	DSD	1916E	0141D	S33	W08	08	18.2		05	9	9	E	HOLL	6224	
18	DSD	1933E	2332D	N12	W57	08	14.5		06	9	9	E	HOLL	6199	
18	ADF	1935E	2336D	S19	W18	08	17.4	1	04	9	9	E	HOLL	6206	
18	DSD	1938E	2337D	S29	E14	08	19.9		03	9	9	E	HOLL	6212	
18	ADF	1941E	0141D	S35	W11	08	17.9	2	05	9	9	E	HOLL	6224	
18	DSD	2005E	0446D	N18	W56	08	14.6		06	9	9	E	PALE	6197	
18	APR	2108E	2140D	S44	E90	08	26.3	2		9	9	E	HOLL		
18	APR	2140E	2335D	S32	E90	08	26.0	2		9	9	E	HOLL		
18	AFS	2208E	0446D	N20	E59	08	23.4		02	9	9	E	PALE		
19	AFS	0005E	0958D	N10	E07	08	19.5		03	9	9	E	LEAR	6214	
19	AFS	0009E	0958D	N06	W29	08	16.8		04	9	9	E	LEAR	6216	
19	AFS	0011E	0958D	S35	W15	08	17.8		03	9	9	E	LEAR	6224	
19	DSD	0025E	0440D	N04	W28	08	16.9		03	9	9	E	PALE	6216	
19	DSD	0025E	0440D	N13	E42	08	22.2		02	9	9	E	PALE	6219	
19	AFS	0025E	0440D	S19	W37	08	16.2		02	9	9	E	PALE	6220	
19	SDF	0035E	1245D	S23	E36	08	21.8		12	0	0	E	HOLL		
19	ASR	0040E	0105D	S09	W82	08	12.9			9	9	E	PALE	6200	
19	BSD	0200	0440D	S22	E70	08	24.5		04	9	9	E	PALE	6226	Flare Associated
19	ASR	0245E	0958D	S09	W88	08	12.5			9	7	E	LEAR	6200	
19	ASR	0247E	0958D	N04	W90	08	12.4			9	9	E	LEAR	6213	
19	AFS	0317E	0958D	S19	W23	08	17.4		03	9	9	E	LEAR	6206	
19	AFS	0515E	0958D	N21	W06	08	18.7		03	9	9	E	LEAR	6209	
19	AFS	0517E	0958D	S20	W39	08	16.2		02	9	9	E	LEAR	6220	
19	ASR	0550E	1706D	S24	E90	08	26.2			9	9	E	SVTO	6226	
19	AFS	0551E	1706D	S09	E03	08	19.5	1	03	9	9	E	SVTO	6214	
19	AFS	0552E	1706D	N07	W31	08	16.9		02	9	9	E	SVTO	6216	
19	ASR	0553E	1706D	N06	W86	08	12.8			9	9	E	SVTO	6213	
19	AFS	0554E	1706D	S34	W15	08	18.0		03	9	9	E	SVTO	6224	
19	AFS	0555E	1706D	S17	W24	08	17.4		02	9	9	E	SVTO	6206	
19	ADF	0556E	1706D	S20	W24	08	17.4	1	10	9	9	E	SVTO	6206	
19	SSB	0602		S15	W45	08	18.0			0	0	E	SVTO		
19	ASR	0605E	0958D	S24	E90	08	26.2			9	9	E	LEAR	6226	
19	DSD	0634E	0958D	S20	W24	08	17.4		08	9	9	E	LEAR	6206	
19	EPL	0917E	0929	S75	E90	08	27.7			6	8	E	SVTO		
19	BSD	0930	0948	N10	W75	08	13.8		08	9	9	E	SVTO	6197	Flare Associated
19	BSD	0934E	0958D	N11	W72	08	14.0		09	9	9	E	LEAR	6197	
19	ASR	0950E	1706D	S13	W88	08	12.8			9	9	E	SVTO	6195	Flare Associated
19	ADF	1056E	1919D	S12	E62	08	24.1	1	07	9	9	E	RAMY	6223	
19	ASR	1056E	2037D	S24	E82	08	25.8			9	9	E	RAMY	6226	
19	ASR	1104E	2034D	N06	W81	08	13.4			9	9	E	RAMY	6213	
19	AFS	1120E	2037D	S11	E02	08	19.6		03	9	9	E	RAMY	6214	
19	ASR	1125	2037D	S09	W84	08	13.2			9	9	E	RAMY	6200	
19	DSD	1139E	1554D	S14	E76	08	25.2		03	9	9	E	RAMY	6223	
19	AFS	1139E	2037D	N05	W35	08	16.9		03	9	9	E	RAMY	6216	
19	AFS	1139E	2037D	S13	E62	08	24.2		02	9	9	E	RAMY	6223	
19	AFS	1149E	1927D	S35	W21	08	17.8		03	9	9	E	RAMY	6224	
19	SSB	1154		S05	W38	08	19.1			0	0	E	RAMY		
19	APR	1253E	2037D	S32	E90	08	26.7	2		9	9	E	RAMY		
19	AFS	1343E	0036D	S19	E67	08	24.7		05	9	9	E	HOLL	6226	
19	ADF	1400E	1827D	S18	E42	08	22.8	1	08	9	9	E	RAMY	6222	
19	DSD	1408E	1703D	N12	W75	08	13.9		05	9	9	E	RAMY	6197	
19	ASR	1426E	0036D	S10	W90	08	12.8			9	9	E	HOLL	6200	
19	ADF	1440E	0036D	N20	W41	08	16.5	1	08	9	9	E	HOLL	6203	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
19	ADF	1447E	1616D	N20	W40	08 16.5	1	06	9	9	E	RAMY	6203	
19	ADF	1505E	1956D	N14	E36	08 22.3	1	04	9	9	E	HOLL	6219	
19	ASR	1518E	1713D	S23	E90	08 26.6			9	9	E	HOLL	6226	
19	AFS	1552E	2037D	N19	E33	08 22.2		03	9	9	E	RAMY	6225	
19	DSD	1556E	2037D	N11	E35	08 22.3		05	9	9	E	RAMY	6219	
19	AFS	1556E	2037D	N13	E34	08 22.2		03	9	9	E	RAMY	6219	
19	DSD	1604E	1923D	N05	W35	08 17.0		03	9	9	E	RAMY	6216	
19	DSD	1606E	1925D	N12	E14	08 20.7		04	9	9	E	RAMY	6215	
19	ADF	1608E	1824D	S13	W05	08 19.3	1	09	9	9	E	RAMY	6214	
19	AFS	1613E	1937D	S16	W28	08 17.5		02	7	7	E	RAMY	6206	
19	AFS	1618E	2037D	N13	W67	08 14.6		03	9	9	E	RAMY	6199	
19	ADF	1638E	2037D	N03	E73	08 25.1	1	20	7	7	E	RAMY		
19	ASR	1722E	0440D	S21	E90	08 26.6			9	9	E	PALE		
19	ASR	1724E	2036D	S21	W89	08 12.9			8	8	E	RAMY	6195	
19	ADF	1742E	0440D	N20	W30	08 17.4		06	9	9	E	PALE	6203	
19	DSD	1742E	0440D	N23	W03	08 19.5		03	9	9	E	PALE	6209	
19	AFS	1742E	0440D	S11	E13	08 20.7		02	9	9	E	PALE	6214	
19	DSD	1742E	0440D	S34	E19	08 21.2		03	9	9	E	PALE	6212	
19	DSD	1743E	1932D	S28	W07	08 19.2		04	8	8	E	RAMY	6212	
19	AFS	1759E	0440D	N06	W24	08 17.9		04	9	9	E	PALE	6216	
19	AFS	1759E	0440D	N13	E47	08 23.3		03	9	9	E	PALE	6219	
19	DSD	1759E	0440D	N14	E26	08 21.7		02	9	9	E	PALE	6215	
19	DSD	1759E	0440D	N20	E48	08 23.4		04	9	9	E	PALE	6225	
19	DSD	1759E	0440D	S22	W32	08 17.3		02	9	9	E	PALE	6220	
19	AFS	1759E	0440D	S36	W09	08 19.0		04	9	9	E	PALE	6224	
19	DSD	2330E	0648D	N06	W40	08 17.0		03	9	9	E	LEAR	6216	
20	BSL	0059	0106	S33	E86	08 26.9			9	9	E	LEAR		
20	BSD	0105	0531D	N11	W86	08 13.6		04	9	9	E	LEAR	6199	
20	ASR	0142E	0531D	S11	W90	08 13.3			9	9	E	LEAR	6200	
20	SSB	0610		307	W50	08 19.7			0	0	E	SVTO		
20	AFS	0611E	1731D	N13	E26	08 22.2	1	03	7	7	E	SVTO	6219	
20	ADF	0612E	1731D	N07	W42	08 17.1	1	05	9	9	E	SVTO	6216	
20	AFS	0613E	1731D	S12	W10	08 19.5	1	05	9	9	E	SVTO	6214	
20	ASR	0614E	1731D	S26	E90	08 27.2			9	9	E	SVTO	6227	
20	ASR	0615E	1731D	N07	W90	08 13.5			9	9	E	SVTO	6197	
20	AFS	0700E	1731D	S19	E61	08 24.9		02	9	9	E	SVTO	6226	
20	ADF	1108E	2210D	S18	E51	08 24.3	1	11	9	9	E	RAMY	6226	
20	ADF	1140E	2127D	S08	E56	08 24.7	1	11	9	9	E	RAMY	6223	
20	SDF	1444E	1546D	N04	E61	08 25.2		12	0	0	E	HOLL		
20	AFS	1445E	2012D	S12	W15	08 19.5		04	9	9	E	HOLL	6214	
20	ADF	1447E	2012D	S07	E48	08 24.2	1	05	9	9	E	HOLL	6216	
20	ASR	1449E	2012D	S28	E86	08 27.3			9	9	E	HOLL	6227	
20	ASR	1512E	2012D	N13	E90	08 27.4			9	9	E	HOLL		
20	DSD	1513E	2012D	S06	E80	08 26.6		04	9	9	E	HOLL		
20	ASR	1514E	2012D	N12	W90	08 13.8			9	9	E	HOLL	6197	
20	SSB	1525		252	W00	08 24.5			0	0	E	RAMY		
20	DSD	1624E	1959D	S19	W59	08 16.2		02	9	9	E	RAMY	6220	
20	ASR	1650E	1959D	N11	E90	08 27.5			9	9	E	PALE		
20	BSL	1655	1711D	N14	E90	08 27.5			9	9	E	RAMY		
20	ASR	1655E	1731D	N13	E90	08 27.5			9	9	E	SVTO		
20	DSD	1726E	0444D	N06	W46	08 17.3		03	9	9	E	PALE	6216	
20	DSD	1726E	0444D	N12	W15	08 19.6		03	9	9	E	PALE		
20	AFS	1726E	0444D	S12	W16	08 19.5		05	9	9	E	PALE	6214	
20	DSD	1726E	0444D	S21	W59	08 16.2		07	9	9	E	PALE	6220	
20	SDF	1731E	0510D	N03	E66	08 25.7		02	0	0	E	SVTO		
20	SDF	1731E	0510D	S26	E50	08 24.6		15	0	0	E	SVTO		
20	ASR	1738E	0444D	S33	E90	08 27.9			9	9	E	PALE		
20	ADF	1742E	0444D	S18	E28	08 22.9	1	04	9	9	E	PALE	6222	
20	DSD	1750E	0444D	S10	E51	08 24.6		02	9	9	E	PALE	6223	
20	AFS	1750E	0444D	S21	E57	08 25.1		05	9	9	E	PALE	6226	
20	ADF	1750E	0444D	S25	E80	08 26.9		04	9	9	E	PALE	6227	
20	DSD	1750E	0444D	S35	W31	08 18.3		04	9	9	E	PALE	6224	
20	BSL	1818E	1931D	S24	W64	08 15.8			9	9	E	RAMY	6220	
20	ASR	1820E	2012D	S26	W68	08 15.5			8	7	E	HOLL	6220	
20	ASR	1820E	1933D	S29	W90	08 13.7			9	9	E	PALE	6220	
20	APR	2230	0110D	N13	E90	08 27.7	1				C	VORO		
20	APR	2230	0110D	N80	E90	08 29.3	1				C	VORO		
20	ASR	2233E	0444D	N13	W87	08 14.4			9	9	E	PALE	6199	
20	DSD	2235E	0444D	S23	E54	08 25.1		07	9	9	E	PALE	6226	

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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	ASR	2238E	0444D	N10	E90	08 27.7			9	9	E	PALE		
20	SSB	2310		308	W61	08 20.2			0	0	E	PALE		
20	AFS	2322E	1000D	S22	E50	08 24.8		02	9	9	E	LEAR	6226	
20	AFS	2332E	1000D	S11	W21	08 19.4		02	9	9	E	LEAR	6214	
20	DSD	2336E	1000D	S10	E40	08 24.0		02	9	9	E	LEAR	6223	
21	BSL	0012	0030D	S19	W90	08 14.1	1				C	VORO		
21	ASR	0026E	1000D	N12	W90	08 14.2			9	9	E	LEAR	6199	
21	SSB	0511		297	W53	08 29.5			0	0	E	SVTO		
21	ASR	0535E	1715D	N08	W90	08 14.5			9	9	E	SVTO	6199	
21	AFS	0536E	1715D	S19	E48	08 24.9	1	04	9	9	E	SVTO	6226	
21	ASR	0537E	1715D	N15	E90	08 28.0			9	9	E	SVTO		
21	AFS	0538E	1715D	S12	W23	08 19.5	1	05	9	9	E	SVTO	6214	
21	ADF	0554E	1715D	S21	E47	08 24.8	1	05	9	9	E	SVTO	6226	
21	ADF	0555E	1715D	S16	E39	08 24.2	1	08	9	9	E	SVTO	6226	
21	AFS	0604E	1715D	S18	W07	08 20.7	1	02	9	9	E	SVTO	6221	
21	AFS	0610E	1715D	S03	E70	08 26.5	1	03	9	9	E	SVTO	6228	
21	BSL	0848E	0858	N12	W90	08 14.6	1				V	KHAR		
21	DSD	0932	1145D	S11	E49	08 25.1		06	9	9	E	SVTO	6223	Flare Associated
21	DSD	0955E	1008D	S20	E40	08 24.5	1				V	KHAR		
21	DSD	0955E	1010D	S19	W62	08 16.7	1				V	KHAR		
21	ADF	1147E	2108D	N08	W54	08 17.4	1	13	9	9	E	RAMY	6216	
21	AFS	1147E	2108D	S07	E69	08 26.6		03	9	9	E	RAMY	6228	
21	AFS	1147E	2108D	S11	W26	08 19.5		04	9	9	E	RAMY	6214	
21	AFS	1147E	2108D	S16	W31	08 19.1		02	9	9	E	RAMY	6221	
21	AFS	1147E	2108D	S21	E43	08 24.8		03	9	9	E	RAMY	6226	
21	SDF	1200E	1445D	N07	E46	08 24.9	1	04	0	0	E	SVTO		
21	SSB	1257		262	W12	08 26.2			0	0	E	RAMY		
21	ADF	1300E	2000D	S26	E65	08 26.6	1	04	9	9	E	RAMY	6230	
21	EPL	1411	1421	N03	W90	08 14.9			9	9	E	SVTO	6199	
21	EPL	1418E	1657D	N07	W90	08 14.8			9	9	E	RAMY	6199	
21	DSD	1612	1630	S19	E46	08 25.2		18	9	9	E	SVTO	6226	Flare Associated
21	SDF	1715E	1330D	N06	E40	08 24.7		07	0	0	E	SVTO		
21	ADF	1745E	0008D	N08	W58	08 17.4	2	11	9	9	E	HOLL	6216	
21	ASR	1830E	2254D	N11	W90	08 15.0			9	9	E	PALE	6199	
21	AFS	1830E	2254D	N13	E07	08 22.3		02	9	9	E	PALE	6219	
21	AFS	1830E	2254D	S11	W30	08 19.5		06	9	9	E	PALE	6214	
21	AFS	1830E	2254D	S18	W72	08 16.3		02	9	9	E	PALE	6220	
21	AFS	1830E	2254D	S19	W40	08 18.7		03	9	9	E	PALE	6226	
21	AFS	1830E	2254D	S35	W45	08 18.2		02	9	9	E	PALE	6224	
21	SSB	2245		251	W17	08 25.8			0	0	E	HOLL		288 W54
22	AFS	0211E	0958D	S11	W32	08 19.7		06	9	9	E	LEAR	6214	
22	AFS	0212E	0958D	S21	E35	08 24.8		03	9	9	E	LEAR	6226	
22	AFS	0215E	0958D	N12	W01	08 22.0		02	7	8	E	LEAR	6219	
22	BSD	0238E	0428D	N12	E77	08 27.9		03	9	9	E	LEAR		
22	ASR	0420E	0958D	S04	W90	08 15.4			9	9	E	LEAR	6208	
22	AFS	0625E	1431D	S14	W36	08 19.5		03	9	9	E	SVTO	6214	
22	ADF	0627E	1431D	S15	E42	08 25.4	1	11	9	9	E	SVTO	6227	
22	DSD	0630E	0820D	S23	E33	08 24.8		08	9	9	E	SVTO	6226	
22	DSD	0632E	0820D	S22	E28	08 24.4		04	9	9	E	SVTO	6226	
22	ASR	0700E	0820D	S20	W87	08 15.6			9	9	E	SVTO	6220	
22	APR	0830E	0920D	S08	E90	08 29.1	3		9	9	E	LEAR		
22	SDF	0943E	0018D	N25	E05	08 22.8		12	0	0	E	LEAR		
22	DSD	1039E	1618D	N11	E74	08 28.0		03	9	9	E	RAMY		
22	AFS	1041E	1639D	S08	E58	08 26.8		02	9	9	E	RAMY	6228	
22	ADF	1042E	1639D	S24	E42	08 25.7	2	12	9	9	E	RAMY	6227	
22	AFS	1042E	1639D	S26	E47	08 26.1		03	9	9	E	RAMY	6227	
22	SSB	1115		252	W25	08 26.5			0	0	E	RAMY		
22	ASR	1805E	0437D	N07	W90	08 16.0			9	9	E	PALE	6216	
22	AFS	1805E	0437D	S13	W44	08 19.4		03	9	9	E	PALE	6214	
22	AFS	2117E	2341D	S12	W46	08 19.4		03	9	9	E	HOLL	6214	
22	AFS	2122E	2341D	S20	E25	08 24.8		03	9	9	E	HOLL	6226	
22	DSD	2122E	2341D	S21	E23	08 24.6		02	9	9	E	HOLL	6226	
22	APR	2140E	2341D	S19	W90	08 16.0			9	9	E	HOLL	6220	
22	ASR	2140E	2341D	S23	W90	08 16.0			9	9	E	HOLL	6220	
22	AFS	2144E	2341D	N23	W58	08 18.4		02	9	9	E	HOLL	6209	
22	ADF	2150E	2341D	N12	W32	08 20.5	1	04	9	9	E	HOLL	6215	
22	DSD	2246E	0437D	N12	W10	08 22.2		04	9	9	E	PALE	6219	
22	ADF	2246E	0437D	S35	W58	08 18.3		04	9	9	E	PALE	6224	

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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
22	ADF	2259E	0437D	N20	W12	08	22.0		07	9	9	E	PALE	6225	
22	DSD	2259E	0437D	S20	E23	08	24.7		04	9	8	E	PALE	6226	
22	ADF	2259E	0437D	S23	E51	08	26.9	1	03	9	9	E	PALE	6230	
22	DSD	2259E	0437D	S25	E42	08	26.2		03	9	9	E	PALE	6227	
23	AFS	0033E	0815D	S13	W48	08	19.4		03	9	9	E	LEAR	6214	
23	AFS	0038E	0815D	S20	E23	08	24.8		04	9	9	E	LEAR	6226	
23	ASR	0500E	0815D	N16	E90	08	30.0			9	9	E	LEAR		
23	ASR	0514	0815D	S16	W90	08	16.4			9	9	E	LEAR	6220	
23	AFS	0612E	0815D	N12	W15	08	22.1		02	6	9	E	LEAR	6219	
23	ADF	0750E	0900E	S16	E08	08	23.9	1				V	KHAR		
23	BSL	0838E	0848	N14	E90	08	30.2	1				V	KHAR		
23	AFS	1038E	1708D	S06	E40	08	26.4		02	9	9	E	RAMY	6228	
23	AFS	1039E	1708D	S27	E43	08	26.8		02	8	8	E	RAMY	6230	
23	ADF	1040E	1708D	S12	E09	08	24.1	2	12	9	9	E	RAMY	6223	
23	ASR	1111E	1654D	N14	E90	08	30.3			9	9	E	RAMY		
23	AFS	1330E	1600D	S15	W55	08	19.4	1	04	9	9	E	SVTO	6214	
23	AFS	1331E	1600D	S05	E43	08	26.8	1	02	9	9	E	SVTO	6228	
23	APR	1332E	1600D	N18	W90	08	16.7	2		9	9	E	SVTO	6203	
23	APR	1333E	1600D	S21	W90	08	16.7	2		9	9	E	SVTO	6206	
23	DSD	1334E	1600D	S10	E06	08	24.0		05	9	9	E	SVTO	6223	
23	ASR	1335E	2256D	N15	E87	08	30.1			8	8	E	HOLL		
23	AFS	1335E	1600D	N20	W19	08	22.1	1	02	9	9	E	SVTO	6225	
23	ASR	1336E	1600D	N03	W90	08	16.8			9	9	E	SVTO	6216	
23	ADF	1337E	2256D	N21	E72	08	29.1	1	10	8	8	E	HOLL	6231	
23	ADF	1337E	1600D	S10	E14	08	24.6	1	08	9	9	E	SVTO	6223	
23	ADF	1337E	1600D	S17	E15	08	24.7	1	08	9	9	E	SVTO	6223	
23	ADF	1338E	1600D	S24	E32	08	26.0	1	04	9	9	E	SVTO	6227	
23	DSD	1346E	0132D	S10	E06	08	24.0		02	9	9	E	HOLL	6223	
23	DSD	1347E	0132D	S23	E14	08	24.6		02	9	9	E	HOLL	6226	
23	ASR	1437E	0132D	N05	W90	08	16.9			9	9	E	HOLL	6216	
23	ADF	1442E	0132D	S26	E42	08	26.9	1	06	9	9	E	HOLL	6230	
23	APR	1445E	2304D	N19	W90	08	16.7	1		9	9	E	HOLL	6203	
23	DSD	1513E	1708D	S28	E30	08	26.0		03	9	9	E	RAMY	6227	
23	SSB	1519		S25	W38	08	27.7			0	0	E	HOLL		272 W60
23	SDF	1522E	1739D	N60	W01	08	23.5		16	0	0	E	HOLL		
23	ASR	1720E	0443D	N04	W90	08	17.0			9	9	E	PALE	6216	
23	AFS	1808E	0443D	N21	W20	08	22.2		02	8	8	E	PALE	6225	
23	DSD	1819E	0443D	S11	W58	08	19.4		02	9	9	E	PALE	6214	
23	APR	1825E	0443D	N20	E90	08	30.6	1		9	9	E	PALE		
23	ASR	1830E	0443D	N24	W90	08	16.8			9	9	E	PALE		
23	APR	2200E	0125D	N85	E90	09	1.3	1				C	VORO		
23	APR	2200E	0125D	S21	E90	08	30.8	1				C	VORO		
23	APR	2200E	0125D	S49	W90	08	16.3	1				C	VORO		
23	ASR	2322E	1001D	N06	W90	08	17.2			9	9	E	LEAR	6216	
23	DSD	2334E	0443D	S13	W06	08	23.5		03	9	9	E	PALE		
23	AFS	2334E	0443D	S14	W04	08	23.7		03	9	9	E	PALE		
23	AFS	2334E	0443D	S14	W62	08	19.3		03	9	9	E	PALE	6214	
23	AFS	2340E	0443D	N25	E11	08	24.8		03	9	9	E	PALE		
23	ADF	2341	0125D	N60	W20	08	22.2	1				C	VORO		
23	BSL	2347	2400D	N03	W90	08	17.3	1				C	VORO		
23	APR	2350	0125D	N22	E90	08	30.9	1				C	VORO		
23	APR	2350	0125D	N22	E90	08	30.9	1				C	VORO		
24	AFS	0012E	1001D	N24	E11	08	24.8		02	8	8	E	LEAR		
24	AFS	0020E	0132D	S13	W05	08	23.6		03	9	9	E	HOLL		
24	ASR	0245E	1001D	S35	W88	08	17.1			9	9	E	LEAR	6224	
24	ASR	0619E	1705D	S38	W90	08	17.0			9	9	E	SVTO	6224	
24	DSD	0625E	1234D	S13	W72	08	18.8		02	9	9	E	SVTO	6214	
24	AFS	0625E	1705D	S16	W64	08	19.4		03	9	9	E	SVTO	6214	
24	ASR	0634E	1340D	N16	W90	08	17.4			9	9	E	SVTO	6209	
24	ADF	0807E	1705D	S24	E34	08	27.0	1	14	9	9	E	SVTO	6230	
24	DSD	1033E	1419D	N11	E76	08	30.1		03	9	9	E	RAMY	6233	
24	AFS	1033E	1759D	N14	E72	08	29.9		02	9	9	E	RAMY	6233	
24	ADF	1038E	1759D	S23	E31	08	26.8	1	12	9	9	E	RAMY	6230	
24	SSB	1044		S18	W00	08	30.4			0	0	E	SVTO		
24	LPS	1051E	1321D	S11	E01	08	24.5			9	9	E	RAMY	6223	
24	LPS	1057E	1325D	S12	E01	08	24.5			9	9	E	SVTO	6223	Flare Associated
24	DSD	1105E	1424D	S28	W56	08	20.1		03	9	9	E	RAMY	6212	
24	ASR	1107E	1426D	N21	W89	08	17.6			9	9	E	RAMY	6209	

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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
24	SSB	1113		207	W06	08 25.0			0	0	E	RAMY		215 W14 268 W67
24	ASR	1225E	1655D	S09	W77	08 18.7			9	9	E	RAMY	6214	
24	BSD	1304E	1523D	S10	W71	08 19.2		06	9	9	E	HOLL	6214	
24	ADF	1307E	1715D	S10	E08	08 25.1	1	05	9	9	E	HOLL	6223	
24	ADF	1307E	2323D	S14	E06	08 25.0	2	12	9	9	E	HOLL	6223	
24	ADF	1308E	0025D	S25	E30	08 26.9	2	14	9	9	E	HOLL	6230	
24	DSD	1310E	1722D	N06	W51	08 20.7		04	9	9	E	HOLL	6215	
24	DSD	1330E	0041D	S12	E07	08 25.1		04	9	9	E	HOLL	6223	
24	ADF	1400E	1716D	S29	E08	08 25.2	1	08	9	9	E	HOLL	6226	
24	AFS	1401E	0025D	S13	W13	08 23.6		02	9	9	E	HOLL		
24	DSD	1444E	1719D	S12	W61	08 20.0		04	9	9	E	HOLL	6214	
24	ASR	1518E	0025D	S33	W90	08 17.5			9	9	E	HOLL	6224	
24	DSD	1716E	0025D	S18	W03	08 24.5		05	9	9	E	HOLL	6226	
24	DSD	1719E	0041D	S13	W75	08 19.1		12	9	9	E	HOLL	6214	
24	BSD	1719E	2310D	S10	W76	08 19.0		10	9	9	E	HOLL	6214	
24	ASR	2026E	0444D	S26	W90	08 17.8			9	9	E	PALE		
25	DSD	0003E	0041D	S26	E17	08 26.3		05	9	9	E	HOLL	6230	Flare Associated
25	DSD	0005E	0444D	S27	E19	08 26.5		04	9	9	E	PALE	6230	Flare Associated
25	ADF	0012E	0041D	S27	E07	08 25.5	2	10	9	9	E	HOLL	6226	
25	AFS	0035E	0444D	N13	E62	08 29.7		02	9	9	E	PALE	6233	
25	AFS	0035E	0444D	S23	W01	08 24.9		03	9	9	E	PALE	6226	
25	ADF	0150E	1000D	S07	E01	08 25.1		17	9	9	E	LEAR	6223	
25	ASR	0151E	1000D	S09	W82	08 18.9			9	9	E	LEAR	6214	
25	AFS	0153E	1000D	N23	W02	08 24.9		03	9	9	E	LEAR	6234	
25	DSD	0220E	0444D	S05	E19	08 26.5		04	9	9	E	PALE	6228	
25	DSD	0340	0444D	S10	W09	08 24.5		05	9	9	E	PALE	6223	
25	AFS	0519E	1000D	S12	W24	08 23.4		02	9	9	E	LEAR	6235	
25	ADF	0550E	1650D	S07	W01	08 25.2	2	10	9	9	E	SVTO	6223	
25	AFS	0550E	1650D	S14	W11	08 24.4	1	03	9	9	E	SVTO	6223	
25	AFS	0551E	1520D	N15	E59	08 29.7	1	02	9	9	E	SVTO	6233	
25	AFS	0552E	1115D	N24	W05	08 24.8	1	02	7	8	E	SVTO	6234	
25	ADF	0553E	1650D	S28	E22	08 27.0	1	04	9	9	E	SVTO	6230	
25	ADF	0554E	1650D	S05	E17	08 26.5	1	04	9	7	E	SVTO	6228	
25	AFS	0555E	1121D	N12	W09	08 24.6	1	04	9	9	E	SVTO	6232	
25	AFS	0556E	1523D	S14	W22	08 23.6	1	02	9	9	E	SVTO	6235	Flare Associated
25	ADF	0557E	0935D	N07	W54	08 21.2	1	03	9	9	E	SVTO	6215	
25	DSD	0558E	0730D	S14	W71	08 19.9		03	9	9	E	SVTO	6214	
25	ASR	0558E	1650D	S11	W90	08 18.5			9	9	E	SVTO	6214	
25	AFS	0558E	1650D	S19	W76	08 19.4	1	03	9	9	E	SVTO	6214	
25	SSB	0630		214	W24	08 26.3			0	0	E	SVTO		
25	DSD	1105E	1240D	S26	W08	08 24.8		05	9	9	E	SVTO	6226	
25	AFS	1133E	2155D	S12	W25	08 23.6		03	9	9	E	RAMY	6235	
25	AFS	1135E	2155D	N23	W09	08 24.8		02	9	9	E	RAMY	6234	
25	AFS	1137E	2155D	N13	E53	08 29.5		02	9	9	E	RAMY	6233	
25	ADF	1139E	2155D	N20	E43	08 28.8	1	08	9	9	E	RAMY	6231	
25	DSD	1227E	2155D	S23	E13	08 26.5		06	9	9	E	RAMY	6226	
25	AFS	1237E	1727D	N12	W46	08 22.1		02	9	9	E	RAMY	6219	
25	AFS	1240E	1650D	S22	E06	08 26.0		02	9	9	E	SVTO	6227	
25	SSB	1248		193	W06	09 1.5			0	0	E	RAMY		227 W40 260 W73
25	ASR	1601E	0129D	S11	W77	08 19.9			9	9	E	HOLL	6214	
25	DSD	1611E	0129D	S10	W21	08 24.1		06	9	9	E	HOLL	6223	
25	ADF	1611E	0129D	S12	W25	08 23.8	1	09	9	9	E	HOLL	6235	
25	SSB	1616		251	W66	08 30.2			0	0	E	HOLL		
25	ASR	1645E	0437D	N11	W89	08 19.0			9	9	E	PALE	6214	
25	AFS	1645E	0437D	N13	E52	08 29.6		03	9	9	E	PALE	6233	
25	AFS	1645E	0437D	N23	W12	08 24.8		02	8	8	E	PALE	6234	
25	AFS	1645E	0437D	S20	E01	08 25.8		02	9	9	E	PALE	6227	
25	AFS	1645E	2033D	S13	W28	08 23.6		02	8	8	E	PALE	6235	
25	SDF	1650E	0747D	N20	W48	08 22.0		12	0	0	E	SVTO		
25	ADF	2020E	2224D	S10	W23	08 24.1	2	16	9	9	E	HOLL	6223	Flare Associated
25	DSD	2033E	0437D	S12	W22	08 24.2		03	9	9	E	PALE	6223	
25	DSD	2033E	0437D	S23	W10	08 25.1		03	9	9	E	PALE	6226	
25	ADF	2224E	0129D	S17	W16	08 24.7	2	10	9	9	E	HOLL	6226	
25	ADF	2332E	1001D	S07	W10	08 25.2	1	11	9	9	E	LEAR	6223	
25	ASR	2333E	1001D	S11	W90	08 19.2			9	9	E	LEAR	6214	
25	ADF	2333E	1001D	S17	W24	08 24.1	1	11	9	9	E	LEAR	6226	
25	AFS	2334E	1001D	S22	W01	08 25.9		03	9	9	E	LEAR	6227	
25	DSD	2335E	1001D	N12	E45	08 29.4		03	9	9	E	LEAR	6233	
25	AFS	2335E	1001D	N12	E48	08 29.6		02	9	9	E	LEAR	6233	

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
25	AFS	2336E	1001D	N17	W69	08	20.7		02	9	9	E	LEAR	6236	
26	APR	0007E	0129D	S32	W90	08	18.9	1		8	8	E	HOLL	6224	
26	DSD	0142E	0224D	S10	W26	08	24.1		09	9	9	E	LEAR	6223	
26	ASR	0539E	1700D	S17	W90	08	19.4			9	9	E	SVTO	6214	
26	ADF	0539E	1700D	S20	W20	08	24.7	1	04	7	6	E	SVTO	6226	
26	DSD	0542E	1700D	N13	E41	08	29.3		06	9	9	E	SVTO	6233	
26	AFS	0544E	1700D	N14	E53	08	30.2		02	9	9	E	SVTO	6233	
26	AFS	0558E	1700D	S23	W02	08	26.1		02	9	9	E	SVTO	6227	
26	AFS	0603E	1700D	N07	W59	08	21.8		02	9	9	E	SVTO	6219	
26	DSD	0810E	0835D	N08	E41	08	29.4	1				V	KHAR		
26	BSD	0840E	0850D	S08	W37	08	23.6					P	BUCH		
26	SDF	0852E	0930D	S07	W35	08	23.7	2				P	BUCH		
26	DSD	0855E	0944D	S12	W30	08	24.1		21	9	9	E	SVTO	6223	Flare Associated
26	DSD	0920E	0930D	S08	W31	08	24.1	1				V	KHAR		
26	DSD	0927E	1001D	S11	W30	08	24.1		11	9	9	E	LEAR	6223	Flare Associated
26	ADF	1128E	1633D	S17	W52	08	22.5	1	13	9	9	E	RAMY	6235	
26	ADF	1128E	1655D	N17	W72	08	21.0	1	03	9	9	E	RAMY	6236	
26	AFS	1128E	2104D	N12	W61	08	21.9		03	9	9	E	RAMY	6219	
26	ASR	1128E	2104D	S12	W90	08	19.7			9	9	E	RAMY	6214	
26	ADF	1128E	2104D	S17	W30	08	24.2	1	11	9	9	E	RAMY	6226	
26	SSB	1310		187	W13	09	2.1			0	0	E	HOLL		244 W70
26	ASR	1320E	1735D	S12	W90	08	19.8			9	9	E	HOLL	6214	
26	ADF	1335E	2337D	S17	W21	08	25.0	2	07	9	9	E	HOLL	6226	
26	SSB	1453		187	W14	09	2.2			0	0	E	RAMY		245 W71
26	BSD	1500E	1735D	N14	E39	08	29.6		06	8	7	E	HOLL	6233	Flare Associated
26	DSD	1632E	1942D	S13	W35	08	24.0		03	9	9	E	RAMY	6223	
26	DSD	1743E	0440D	N13	E33	08	29.2		03	9	9	E	PALE	6233	
26	AFS	1743E	0440D	N14	E37	08	29.5		03	9	9	E	PALE	6233	
26	ADF	1750E	0440D	S19	W33	08	24.2	1	10	9	9	E	PALE	6226	
26	LPS	2027E	2200D	S12	W90	08	20.1			7	7	E	HOLL	6214	
26	LPS	2027E	0022D	S11	W90	08	20.1			8	8	E	PALE	6214	
26	ASR	2137E	0440D	N09	W87	08	20.4			9	9	E	PALE	6215	
26	SPY	2217	2259D	S12	W90	08	20.1			9	9	E	HOLL	6214	
26	ASR	2219E	2230D	S16	W90	08	20.1			9	9	E	PALE	6214	
26	SPY	2230E	2253D	S16	W90	08	20.1			9	9	E	PALE	6214	
27	AFS	0607E	1652D	N15	E34	08	29.8		02	9	9	E	SVTO	6233	
27	ADF	0615E	0955D	S26	W58	08	22.7		08	9	9	E	SVTO		
27	ADF	0621E	1652D	S20	W39	08	24.3	1	07	9	9	E	SVTO	6226	
27	ASR	0644E	1652D	N12	W90	08	20.5			9	9	E	SVTO	6236	
27	DSD	0800E	1652D	N14	E24	08	29.1		03	9	9	E	SVTO	6233	
27	DSD	0810E	0822	N13	E22	08	29.0	1				V	KHAR		
27	ASR	0814E	0954D	N11	W90	08	20.6			9	9	E	LEAR	6236	
27	DSD	0820E	0954D	N12	E25	08	29.2		02	9	9	E	LEAR	6233	
27	AFS	0820E	0954D	N13	E29	08	29.5		02	9	9	E	LEAR	6233	
27	BSL	0940E	1025	N06	W90	08	20.7	1				V	KHAR		
27	APR	1006E	1028D	N04	E90	09	3.1	1				V	KHAR		
27	APR	1020	1028D	N18	E90	09	3.3	1				V	KHAR		
27	ASR	1116E	1705D	N10	W85	08	21.1			9	9	E	RAMY	6236	
27	ADF	1116E	1711D	S01	W11	08	26.6	1	05	9	9	E	RAMY	6228	
27	AFS	1116E	1952D	N12	W75	08	21.8		02	9	9	E	RAMY	6219	
27	ADF	1116E	1952D	S31	W44	08	24.0	1	04	9	9	E	RAMY	6226	
27	AFS	1116E	2203D	N13	E26	08	29.4		03	9	9	E	RAMY	6233	
27	DSD	1116E	2203D	N14	E28	08	29.6		03	9	9	E	RAMY	6233	
27	ADF	1116E	2203D	S22	W14	08	26.4	1	08	9	9	E	RAMY	6230	
27	ADF	1300E	1610D	N19	E18	08	28.9	1	12	9	9	E	RAMY	6231	
27	DSD	1326E	2351D	N12	E21	08	29.1		01	9	9	E	HOLL	6233	
27	AFS	1326E	2351D	N12	E25	08	29.4		02	9	9	E	HOLL	6233	
27	ADF	1330E	2351D	N05	W36	08	24.9	1	05	9	9	E	HOLL	6232	
27	SSB	1422		180	W20	09	2.7			0	0	E	HOLL		211 W51
27	AFS	1637E	0435D	N14	E26	08	29.6		03	9	9	E	PALE	6233	
27	ASR	1637E	2232D	N10	W85	08	21.3			9	9	E	PALE	6215	
27	SSB	1810		174	W16	09	2.4			0	0	E	PALE		
27	SDF	1925E	2127D	S05	W40	08	24.8		06	0	0	E	PALE		
27	ASR	2054E	0435D	S16	W86	08	21.3			9	9	E	PALE		
27	DSD	2139	0435D	N13	E16	08	29.1		04	9	9	E	PALE	6233	Flare Associated
27	ASR	2230E	0435D	N15	W90	08	21.1			9	9	E	PALE	6236	
27	DSD	2325E	0558D	N13	E16	08	29.2		02	9	9	E	LEAR	6233	
27	AFS	2325E	1000D	N12	E21	08	29.5		03	9	9	E	LEAR	6233	

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	AFS	2328E	1000D	S07	W23	08 26.2		02	9	9	E	LEAR	6228	
28	ASR	0027E	1000D	N13	W90	08 21.2			9	9	E	LEAR	6236	
28	ASR	0029E	1000D	S18	E90	09 3.9			9	9	E	LEAR	6238	
28	ASR	0312E	0435D	N22	E90	09 4.0			9	9	E	PALE		
28	ASR	0624E	1551D	N07	W90	08 21.5			9	9	E	SVTO	6215	
28	DSD	0633E	1028D	N14	E10	08 29.0		02	9	9	E	SVTO	6233	
28	AFS	0633E	1655D	N15	E19	08 29.7		02	9	9	E	SVTO	6233	
28	AFS	0711E	1655D	S15	E61	09 1.9		03	9	9	E	SVTO	6237	
28	APR	0730E	1002D	N26	W90	08 21.3	2				V	KHAR		
28	SDF	0735E	0254D	S40	E18	08 29.8		25	0	0	E	LEAR		
28	DSD	0854E	0902D	N13	E09	08 29.0	1				V	KHAR		
28	DSD	0914E	0925D	N15	E13	08 29.4	1				V	KHAR		
28	ADF	0918E	0925D	S12	E70	09 2.7	1				V	KHAR		
28	BSL	0956E	1002D	S13	E90	09 4.2	1				V	KHAR		
28	DSD	1014E	1023D	N15	E18	08 29.8		03	9	9	E	SVTO	6233	Flare Associated
28	AFS	1043E	2220D	N15	E19	08 29.9		02	9	9	E	RAMY	6233	
28	DSD	1045E	1351D	S16	E59	09 1.9		02	9	9	E	RAMY	6237	
28	ADF	1046E	2220D	S19	E35	08 31.1	1	18	9	9	E	RAMY		
28	AFS	1052E	1351D	S23	W28	08 26.3		02	9	9	E	RAMY	6227	
28	DSD	1104E	1919D	N14	E12	08 29.4		03	9	9	E	RAMY	6233	
28	DSD	1108E	2023D	S19	W52	08 24.5		02	9	9	E	RAMY	6226	
28	BSD	1111	1351D	S14	E71	09 2.8		04	9	9	E	RAMY	6238	
28	SSB	1229		173	W25	09 3.2			0	0	E	RAMY		
28	DSD	1305E	0032D	N14	E15	08 29.7		02	8	8	E	HOLL	6233	Flare Associated
28	ADF	1322E	0035D	S19	E32	08 31.0	1	18	9	9	E	HOLL		
28	DSD	1340	0032D	N15	E16	08 29.8		02	9	9	E	HOLL	6233	
28	SSB	1548		185	W39	09 4.5			0	0	E	HOLL		
28	ASR	1610E	2255D	S14	W90	08 21.9			9	9	E	HOLL		
28	ASR	1622E	2103D	S13	W90	08 21.9			9	9	E	RAMY		
28	ASR	1701E	0404D	S15	W90	08 21.9			9	9	E	PALE	6235	
28	DSD	1720E	0404D	N13	E17	08 30.0		03	9	9	E	PALE	6233	
28	AFS	1720E	0404D	S10	E74	09 3.3		03	9	9	E	PALE	6238	
28	DSD	1720E	0404D	S12	W54	08 24.6		04	9	9	E	PALE	6223	
28	DSD	1720E	0404D	S21	W52	08 24.7		03	9	9	E	PALE	6226	
28	ADF	1720E	0404D	S23	W35	08 26.0		06	9	9	E	PALE	6227	
28	ADF	1720E	0404D	S31	W24	08 26.8	1	06	9	9	E	PALE	6230	
28	ADF	1822E	0116D	S10	W54	08 24.7	1	07	9	9	E	HOLL	6223	
28	ADF	1839E	2258D	S23	W50	08 24.9	1	11	9	9	E	HOLL	6226	
28	DSD	2322E	0735D	N14	E09	08 29.6		02	9	9	E	LEAR	6233	
28	AFS	2322E	1002D	N13	E11	08 29.8		02	9	9	E	LEAR	6233	
29	ASR	0618E	1002D	N11	W90	08 22.5			9	9	E	LEAR	6219	
29	ASR	0701E	1637D	S18	W90	08 22.4			9	9	E	SVTO	6235	
29	AFS	0722E	1637D	N14	E06	08 29.8		02	9	9	E	SVTO	6233	
29	DSD	0855E	0925D	S28	W49	08 25.5	1				V	KHAR		
29	BSL	0917E	0959	S13	E90	09 5.2	2				V	KHAR		
29	ASR	0933E	1002D	S12	E90	09 5.2			9	9	E	LEAR		
29	ADF	1006E	1637D	S15	W51	08 25.5	1	13	9	9	E	SVTO	6226	
29	ADF	1031E	2222D	S26	W41	08 26.2	1	09	9	9	E	RAMY	6227	
29	ADF	1033E	1927D	S07	W26	08 27.5	1	21	9	9	E	RAMY	6228	
29	ADF	1041E	1937D	S44	W65	08 24.1	2	17	9	9	E	RAMY		
29	DSD	1053E	1931D	S20	W65	08 24.5		02	9	9	E	RAMY	6226	
29	AFS	1056E	1407D	N15	E64	09 3.3		02	9	9	E	RAMY	6239	
29	AFS	1057E	1719D	S16	E44	09 1.8		02	9	9	E	RAMY	6237	
29	AFS	1058E	1524D	S27	W32	08 27.0		02	9	9	E	RAMY	6230	
29	SSB	1103		171	W36	09 4.1			0	0	E	RAMY		197 W62
29	DSD	1321E	1602D	S25	W60	08 24.9		12	9	9	E	HOLL	6226	
29	DSD	1322E	1600D	S15	W71	08 24.2		07	9	9	E	HOLL	6223	
29	SDF	1336E	1555D	N58	E37	09 1.8		18	0	0	E	RAMY		
29	ASR	1357E	1720D	N11	W90	08 22.8			9	9	E	RAMY		
29	DSD	1400	1618D	S23	W48	08 25.9		04	9	9	E	HOLL	6227	Flare Associated
29	ADF	1405E	1524D	S15	E65	09 3.5	2	03	9	9	E	RAMY	6238	
29	ASR	1414E	1838D	N12	W90	08 22.8			7	7	E	HOLL		
29	DSD	1416E	1547D	N12	E03	08 29.8		04	9	9	E	RAMY	6233	
29	AFS	1417E	0124D	N14	E02	08 29.7		03	6	7	E	HOLL	6233	
29	DSD	1418E	1605D	N15	E61	09 3.2		11	9	9	E	HOLL	6239	
29	SSB	1420		133	W00	09 1.1			0	0	E	HOLL		171 W38
29	ADF	1600E	0124D	S11	W68	08 24.5	1	06	9	9	E	HOLL	6223	
29	ADF	1603E	2300D	S25	W47	08 26.0	1	06	9	9	E	HOLL	6227	

## ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CHP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
29	AFS	1605E	0124D	S16	E43	09 1.9		02	9	9	E	HOLL	6237	
29	ADF	1725E	0157D	N20	W18	08 28.3		07	9	9	E	PALE	6231	
29	ADF	1725E	0157D	S07	W42	08 26.6	1	05	9	9	E	PALE	6228	
29	ADF	1725E	0157D	S10	E54	09 2.8	1	03	9	9	E	PALE	6238	
29	DSD	1725E	0157D	S12	W68	08 24.6		05	9	9	E	PALE	6223	
29	DSD	1725E	0157D	S30	W40	08 26.6		03	9	9	E	PALE	6227	
29	AFS	1905E	0124D	S18	W01	08 29.7		02	9	9	E	HOLL		
29	ADF	1933E	0124D	S10	E51	09 2.6	1	03	9	9	E	HOLL	6238	
30	BSD	0150E	1001D	S16	W76	08 24.3		11	9	9	E	LEAR	6223	Flare Associated
30	DSD	0324E	1001D	N11	W11	08 29.3		03	9	9	E	LEAR	6233	
30	AFS	0818E	1619D	N12	W04	08 30.0		02	9	9	E	SVTO	6233	
30	ADF	0820E	1619D	S08	W49	08 26.7	1	05	9	9	E	SVTO	6228	
30	ADF	1025E	1941D	N16	E54	09 3.5	1	10	9	9	E	RAMY	6239	
30	AFS	1034E	1422D	S21	E36	09 2.2		02	9	9	E	RAMY	6237	
30	DSD	1036E	1424D	N12	W10	08 29.7		04	9	9	E	RAMY	6233	
30	AFS	1045E	1941D	S28	W46	08 26.8		03	9	9	E	RAMY	6230	
30	ADF	1047E	1426D	S05	W41	08 27.4	1	12	9	9	E	RAMY	6228	
30	AFS	1052E	1429D	S28	W46	08 26.8		02	9	9	E	RAMY	6227	
30	DSD	1107E	1430D	S23	W61	08 25.8		03	9	9	E	RAMY	6226	
30	ASR	1112E	1616D	S24	W81	08 24.2			9	9	E	RAMY	6226	
30	AFS	1122E	1432D	S17	W10	08 29.7		02	7	7	E	RAMY		
30	SSB	1127		131	W09	09 1.8			0	0	E	RAMY		174 W52 200 W78
30	ASR	1408E	0030D	S11	W77	08 24.8			8	9	E	HOLL	6223	
30	ADF	1428E	0017D	S06	W53	08 26.6		04	9	9	E	HOLL	6228	
30	AFS	1433	1941D	S21	E38	09 2.5		03	9	9	E	RAMY		
30	DSD	1445E	1624D	N11	W12	08 29.7		03	9	9	E	HOLL	6233	
30	AFS	1451E	0022D	S20	E37	09 2.4		02	7	9	E	HOLL		
30	SSB	1459		132	W12	09 2.0			0	0	E	HOLL		174 W54
30	DSD	1527E	0008D	S12	E38	09 2.5		04	9	9	E	HOLL	6238	
30	DSD	1624E	0027D	N14	W20	08 29.2		04	9	9	E	HOLL	6233	
30	AFS	1633E	0120D	N13	E61	09 4.3		02	9	9	E	HOLL		
30	DSD	1720E	0310D	S09	W60	08 26.2		04	9	9	E	PALE	6228	Flare Associated
30	ASR	1720E	0429D	N13	W88	08 24.1			9	9	E	PALE	6223	
30	AFS	1720E	0429D	S13	E74	09 5.3		02	9	9	E	PALE		
30	AFS	1720E	0429D	S20	E36	09 2.5		03	9	9	E	PALE		
30	SSB	1728		134	W16	09 2.3			0	0	E	PALE		172 W54
30	AFS	1728E	0429D	N13	W13	08 29.7		03	9	9	E	PALE	6233	
30	AFS	1728E	0429D	N14	E63	09 4.5		02	9	9	E	PALE		
30	ADF	1815E	0033D	N12	E61	09 4.3	1	04	9	9	E	HOLL		
30	ASR	1855E	0429D	S20	W87	08 24.1			9	9	E	PALE	6226	
30	BSD	1905E	0120D	S11	W78	08 24.9		03	9	9	E	HOLL	6223	
30	APR	1930E	0029D	S33	W90	08 23.7	2		9	9	E	HOLL		
30	AFS	1952E	0120D	N13	E59	09 4.3		02	9	9	E	HOLL		
30	ASR	2325E	0958D	N13	E88	09 6.6			9	9	E	LEAR	6223	
31	ASR	0148E	0958D	S22	W90	08 24.1			9	9	E	LEAR	6226	
31	AFS	0229E	0958D	N12	E54	09 4.2		03	9	9	E	LEAR	6244	
31	AFS	0335E	0429D	S16	E24	09 2.0		02	9	9	E	PALE	6237	
31	DSD	0515	0958D	N13	W28	08 29.1		06	9	9	E	LEAR	6233	Flare Associated
31	AFS	0624E	1416D	N14	E53	09 4.3		02	9	9	E	SVTO	6244	
31	ASR	0625E	1631D	S12	W90	08 24.5			9	9	E	SVTO	6223	
31	ASR	0625E	1631D	S22	W90	08 24.3			9	9	E	SVTO	6226	
31	ADF	0627E	1631D	S28	W68	08 25.9	1	14	9	9	E	SVTO	6227	
31	ASR	0630E	0749D	S12	W90	08 24.5					P	BUCH		
31	AFS	1031E	2126D	N13	E51	09 4.3		02	9	9	E	RAMY	6244	
31	AFS	1033E	1612D	S18	E24	09 2.3		03	9	9	E	RAMY	6242	
31	ADF	1039E	2126D	N39	E46	09 4.2	1	09	9	9	E	RAMY	6239	
31	DSD	1044	1354D	S19	E23	09 2.2		04	9	9	E	RAMY	6242	Flare Associated
31	AFS	1044E	1612D	S16	E43	09 3.7		02	9	9	E	RAMY	6238	
31	DSD	1053E	1528D	S29	W54	08 27.2		09	9	9	E	RAMY	6230	
31	AFS	1053E	1612D	S26	W56	08 27.1		02	9	9	E	RAMY	6230	
31	DSD	1100E	1612D	S30	W72	08 25.8		07	9	9	E	RAMY	6227	
31	SSB	1114		129	W22	09 2.7			0	0	E	RAMY		156 W49 173 W64
31	DSD	1155E	1235D	N14	W32	08 29.1		03	9	9	E	SVTO	6233	Flare Associated
31	DSD	1352E	1707D	N13	E50	09 4.3		04	9	9	E	HOLL	6244	
31	SDF	1435E	1335D	N12	E65	09 5.5		18	0	0	E	HOLL		
31	ASR	1453E	0037D	S06	W90	08 24.9			9	9	E	HOLL	6223	
31	APR	1511E	0037D	S20	W90	08 24.7	1		9	9	E	HOLL	6226	
31	AFS	1524E	2346D	S25	W59	08 27.1		03	7	9	E	HOLL	6230	



ACTIVE PROMINENCES AND FILAMENTS

AUGUST 1990

Day	Event Type	Start (UT)	End (UT)	Lat	CHD	CMP No	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
31	ADF	1533E	0037D	N12	W21	08	30.1	2	04	9	9	E	HOLL	6233	
31	AFS	1543E	2259D	N12	E47	09	4.2		02	9	8	E	HOLL	6244	
31	ADF	1543E	2259D	N13	E48	09	4.3	1	03	9	9	E	HOLL	6244	
31	ADF	1550E	0037D	N13	E38	09	3.5	1	35	7	7	E	HOLL	6239	
31	AFS	1646E	0430D	N13	E57	09	5.0		02	9	9	E	PALE	6244	
31	AFS	1646E	0430D	N13	W24	08	29.9		03	9	9	E	PALE	6233	
31	ASR	1655E	0430D	S18	W90	08	24.8			9	9	E	PALE	6226	
31	SSB	1719		133	W27	09	3.3			0	0	E	PALE		177 W72
31	SSB	1727		133	W28	09	3.3			0	0	E	HOLL		172 W67
31	SDF	2126E	1051D	N11	E49	09	4.6		23	0	0	E	RAMY		

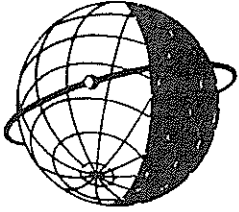
ADF = Active Dark Filament      BSL = Bright Surge on Limb      LPS = Loops  
 AFS = Arch Filament System      CAP = CAP Prominence (Tandberg-Hanssen)      MDP = Mound Prominence  
 APR = Active Prominence      CRN = Coronal Rain      SDF = Sudden Disappearing Filament  
 ASR = Active Surge Region  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

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

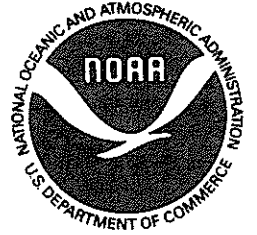
The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

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

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



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



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

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