Hα SOLAR FLARES

JULY 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	SVTO	01	0753	0753	0756	S19	W28	10017	06	29.3	3	SF		3	E		11		
0002		01	09064	0907	0922	S20	W28	10017	06	29.3	16	SF					28		D
	KANZ	01	0906	0907	0920	S19	W28	10017	06	29.3	14	SF		2	E				
	SVTO	01	0910	0911U	0916	S19	W29	10017	06	29.3	6	SF		2	E		11		
	KHAR	01	0915E		0929	S21	W26	10017	06	29.5	14D	SF		3	P	0917	45		D
0003	KHAR	01	0915E		0936	S14	W59		06	27.0	21D	SF		3	P	0917	60		DH
0004	HOLL	01	1430	1432	1436	S29	W48	10015	06	27.9	6	SF		3	E		49		
		01	2131		2147	No Flare Patrol													
		01	2207		2342	No Flare Patrol													
		02	0917		1008	No Flare Patrol													
0005	RAMY	02	1411	1411	1432	S19	E37	10019	07	5.4	21	SF		3	E		28		F
0006	RAMY	02	1516	1521	1524	S19	W43	10017	06	29.4	8	SF		3	E		12		
0007	RAMY	02	1651	1652	1655	S17	W52	10017	06	28.8	4	SF		3	E		20		H
0008	RAMY	02	1840	1840	1849	S18	E30	10019	07	5.1	9	SF		3	E		23		
0009		02	19233	19243	1934	S18	W52	10017	06	28.9	11	SF					40		H
	HOLL	02	1923	1924	1930	S19	W51	10017	06	29.0	7	SF		3	E		45		
	RAMY	02	1926	1927	1938	S17	W53	10017	06	28.9	12	SF		3	E		35		H
0010		02	1949*	2029	2126	S18	W48	10017	06	29.3	97	SF					83		F
	HOLL	02	1949	2029	2110	S18	W51	10017	06	29.0	81	SF		3	E		102		F
	RAMY	02	2021	2029	2142	S18	W46	10017	06	29.4	81	SF		3	E		64		F
0011	HOLL	02	2111	2111	2117	S19	W49	10017	06	29.2	6	SF		3	E		12		
0012	RAMY	02	1953	1958	2017	S19	W46	10017	06	29.4	24	SF		3	E		23		FH
0013		02	19583	20013	2019	S18	E30	10019	07	5.1	21	SF					16		F
	RAMY	02	1958	2004	2024	S18	E30	10019	07	5.1	26	SF		3	E		23		F
	HOLL	02	2001	2001	2014	S17	E30	10019	07	5.1	13	SF		3	E		10		
		02	2249		2329	No Flare Patrol													
0014	HOLL	02	2330	2335	2341	S21	W47	10017	06	29.5	11	SF		3	E		20		F
0015	LEAR	03	0210	0213	0327	S20	W51	10017	06	29.3	77	1B		3	E		205		EF
0016	LEAR	03	0437	0444	0502	S18	E24	10019	07	5.0	25	SF		3	E		14		FH
0017		03	0705	0706	0710	S34	E71	10024	07	8.9	5	1F					100		H
	SVTO	03	0701E	0709U	0712D	S34	E72	10024	07	9.0	11D	1F		2	E		180		
	LEAR	03	0705	0706	0710	S35	E70	10024	07	8.9	5	SF		3	E		21		H
0018	KANZ	03	0800E	0800U	0803D	S19	E24	10019	07	5.2	3D	SF		2	E				
0019		03	0801	0818	0828	S20	E24	10019	07	5.2	27	SF					26		FH
	LEAR	03	0801	0818	0833	S20	E23	10019	07	5.1	32	SF		3	E		30		FH
	SVTO	03	0806E	0811U	0823	S19	E24	10019	07	5.2	17D	SF		2	E		22		
0020		03	0851	08511	0856	S22	E28	10019	07	5.5	5	SF					14		F
	LEAR	03	0851	0851	0855	S22	E28	10019	07	5.5	4	SF		3	E		11		F
	SVTO	03	0851	0852	0856	S22	E29	10019	07	5.6	5	SF		3	E		17		F
0021		03	1144	1156	1223	S19	E20	10019	07	5.0	39	1N					95		FH
	RAMY	03	1144	1156	1223	S18	E21	10019	07	5.1	39	1N		3	E		140		FH
	SVTO	03	1147E	1159U	1212D	S20	E20	10019	07	5.0	25D	SF		2	E		50		
0022	RAMY	03	1324	1324	1334	S19	W54	10017	06	29.5	10	SF		3	E		22		
0023	RAMY	03	1808	1808	1812	S19	W58	10017	06	29.4	4	SF		3	E		14		F

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0024	RAMY	03	1844	1844	1850	S18	W57	10017	06	29.5	6	SF		3	E		16		F
		03	1908		1923	No Flare Patrol													
0025	RAMY	03	1920	1920	1926	S17	W58	10017	06	29.5	6	SF		3	E		13		F
0026	RAMY	03	1927	2100	2214	S19	W62	10017	06	29.2	167	1N		3	E		153		F
		03	1934		2028	No Flare Patrol													
		03	2113		2123	No Flare Patrol													
0027	HOLL	03	2125E	2133U	2222	S18	W63	10017	06	29.2	57D	SF		3	E		43		
0028	RAMY	03	2100	2102	2113	S35	E62	10024	07	8.8	13	SF		3	E		20		
		03	2234		2316	No Flare Patrol													
0029	HOLL	03	2317E	2319U	2323D	S19	W63	10017	06	29.3	6D	SF		2	E		80		U
		03	2324		2337	No Flare Patrol													
0030	LEAR	04	0038	0039	0045	S18	W66	10017	06	29.1	7	SF		3	E		87		F
0031	LEAR	04	0127	0128	0133	S18	W62	10017	06	29.4	6	SF		3	E		29		F
0032	LEAR	04	0454	0455	0458	S19	W65	10017	06	29.3	4	SF		3	E		14		
0033	LEAR	04	0457	0459	0517	S20	E12	10019	07	5.1	20	SF		3	E		36		F
0034	SVTO	04	0506E	0506U	0518D	S20	E20	10019	07	5.7	12D	SF		2	E		42		F
0035		04	0617	06233	0640	S19	W66	10017	06	29.3	23	SF					50		FH
	LEAR	04	0617	0623	0640	S19	W66	10017	06	29.3	23	SF		3	E		45		F
	SVTO	04	0626E	0626	0634D	S19	W66	10017	06	29.3	8D	SF		2	E		56		FH
0036	LEAR	04	0733	0733	0742	S19	W77	10017	06	28.5	9	SF		3	E		41		F
0037	SVTO	04	1011	1013	1016	S19	W67	10017	06	29.4	5	SF		3	E		68		
0038	SVTO	04	1047	1047	1057	S18	W76	10017	06	28.8	10	SF		3	E		16		
0039	RAMY	04	1328	1328	1336	S20	W69	10017	06	29.4	8	SF		2	E		34		
0040		04	14511	14561	1514	S20	W71	10017	06	29.3	23	1B					141		H
	RAMY	04	1451	1456	1528	S19	W71	10017	06	29.3	37	1B		3	E		153		H
	SVTO	04	1451	1457	1507	S20	W73	10017	06	29.1	16	1B		3	E		139		
	HOLL	04	1452	1457	1508	S21	W68	10017	06	29.5	16	1N		3	E		130		
0041	RAMY	04	1609	1611	1614	S18	W70	10017	06	29.4	5	SF		3	E		47		
0042	RAMY	04	1617	1617	1623	S19	E06	10019	07	5.1	6	SF		3	E		19		F
0043	RAMY	04	1745	1747	1811	S19	E06	10019	07	5.2	26	SF		3	E		48		F
0044	RAMY	04	1743	1744	1749	S19	W72	10017	06	29.3	6	SF		3	E		26		
0045	RAMY	04	1753	1753	1803	S17	W79	10017	06	28.8	10	SF		3	E		16		
0046	RAMY	04	1846	1847	1852	S18	W79	10017	06	28.9	6	SF		3	E		31		
0047	RAMY	04	2118	2118	2127	S21	E23	10022	07	6.6	9	SF		3	E		17		F
		04	2231		2336	No Flare Patrol													
0048	LEAR	05	0739	0741	0748	S18	W88	10017	06	28.7	9	SF		3	E		15		
0049	RAMY	05	1321	1322	1325	S16	W85	10017	06	29.2	4	SF		3	E		15		H

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0050		05	13283	13321	1341	S18	W87	10017	06	29.0	13	SF					32		H
	RAMY	05	1328	1332	1342	S18	W89	10017	06	28.9	14	SF		3	E		45		H
	HOLL	05	1329	1333	1341	S19	W82	10017	06	29.4	12	SF		3	E		22		
	SVTO	05	1331	1332	1340	S18	W89	10017	06	28.9	9	SF		3	E		30		
0051		05	15381	15414	1601	S29	W17	10021	07	4.3	23	SF					41		F
	RAMY	05	1538	1542	1604	S28	W18	10021	07	4.2	26	SF		3	E		40		
	HOLL	05	1539	1541	1556	S29	W15	10021	07	4.5	17	SF		3	E		39		F
	SVTO	05	1539	1545	1604	S29	W18	10021	07	4.2	25	SF		3	E		44		F
0052		05	1548	15515	1613	S19	W02	10019	07	5.5	25	SF					55		F
	HOLL	05	1548	1551	1612	S19	W01	10019	07	5.6	24	SF		3	E		51		F
	RAMY	05	1548	1551	1614	S19	W02	10019	07	5.5	26	SF		3	E		61		F
	SVTO	05	1548	1556	1614	S19	W03	10019	07	5.4	26	SF		3	E		52		F
0053		05	16141	16171	1627	S28	W16	10021	07	4.4	13	SF					22		F
	SVTO	05	1614	1617	1632	S29	W17	10021	07	4.3	18	SF		3	E		28		F
	RAMY	05	1615	1618	1622	S28	W16	10021	07	4.4	7	SF		3	E		16		
0054	RAMY	05	1726	1727	1730	S28	W18	10021	07	4.3	4	SF		3	E		21		
0055	RAMY	05	1733	1733	1739	S28	W16	10021	07	4.5	6	SF		3	E		19		
0056		05	1811	1823	1834	S28	W18	10021	07	4.3	23	SF					52		
	RAMY	05	1811	1823	1830	S28	W19	10021	07	4.3	19	SF		3	E		48		
	HOLL	05	1811	1823	1839	S28	W17	10021	07	4.4	28	SF		3	E		56		
0057	HOLL	05	2028	2029	2035	S29	W18	10021	07	4.4	7	SF		3	E		21		
0058	HOLL	05	2029	2033	2038	S20	E08	10022	07	6.5	9	SF		3	E		19		
0059		05	2049	20511	2102	S28	W18	10021	07	4.5	13	SF					55		
	HOLL	05	2049	2051	2101	S28	W19	10021	07	4.4	12	SF		3	E		60		
	RAMY	05	2049	2052	2102	S28	W18	10021	07	4.5	13	SF		3	E		50		
0060	HOLL	05	2132	2132	2136	S29	W19	10021	07	4.4	4	SF		3	E		12		
0061	HOLL	05	2200	2213	2225	S29	W21	10021	07	4.3	25	SF		3	E		36		
		05	2336		2400	No Flare Patrol													
		06	0000		0401	No Flare Patrol													
0062		06	09256	0937	1003	S19	W12	10019	07	5.5	38	1N					107		FS
	KANZ	06	0925	0937	1004	S19	W12	10019	07	5.5	39	1F		2	E				
	SVTO	06	0931	0937	1002	S19	W12	10019	07	5.5	31	1N		3	E		107		FS
0063		06	12375	12451	1302	N08	E25		07	8.4	25	SF					92		F
	KANZ	06	1237	1246	1303	N09	E24		07	8.3	26	1F		2	E				
	RAMY	06	1242	1245	1302	N09	E25		07	8.4	20	SF		3	E		88		F
	SVTO	06	1242	1246	1300	N07	E26		07	8.5	18	SF		2	E		96		F
		06	1817		1849	No Flare Patrol													
		06	1911		1917	No Flare Patrol													
		06	1921		2016	No Flare Patrol													
		06	2041		2354	No Flare Patrol													
		07	0054		0111	No Flare Patrol													
		07	0139		0159	No Flare Patrol													
		07	0300		0415	No Flare Patrol													
0064	RAMY	07	1301	1303	1312	S19	E46	10025	07	11.0	11	SF		3	E		23		F
		07	1650		1657	No Flare Patrol													
		07	1815		1826	No Flare Patrol													
		07	1832		1915	No Flare Patrol													
		07	1923		2341	No Flare Patrol													
		08	0138		0256	No Flare Patrol													
		08	0506		0516	No Flare Patrol													
		08	0524		0547	No Flare Patrol													
		08	1833		1844	No Flare Patrol													
		08	1851		2139	No Flare Patrol													

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		08	2241		2336	No Flare Patrol												
		09	2109		2336	No Flare Patrol												
0065	LEAR	10	0146	0149	0159	N21	E71	10030	07 15.5	13	SF		3	E		26		F
0066	LEAR	10	0418	0419	0427	N18	E68	10030	07 15.3	9	SF		3	E		40		
0067		10	1034*	1048	1054	S20	E08	10025	07 11.0	20	SF					17		
	KANZ	10	1034	1041U	1055	S20	E07	10025	07 11.0	21	SF		2	E				
	RAMY	10	1046	1048	1054	S20	E08	10025	07 11.1	8	SF		3	E		17		
0068		10	12491	1250	1253	S20	E07	10025	07 11.1	4	SF					18		FH
	SVTO	10	1249	1250	1252	S19	E06	10025	07 11.0	3	SF		2	E		16		FH
	KANZ	10	1249	1250	1253	S21	E05	10025	07 10.9	4	SF		2	E				
	RAMY	10	1250	1250	1254	S19	E09	10025	07 11.2	4	SF		3	E		20		FH
0069		10	13072	13291	1404	S19	E08	10025	07 11.1	57	SF					78		FH
	KANZ	10	1307	1326U	1326D	S18	E08	10025	07 11.1	19D	SF		2	E				
	RAMY	10	1308	1329	1411	S19	E08	10025	07 11.1	63	SF		3	E		80		FH
	SVTO	10	1309	1330	1358	S19	E08	10025	07 11.1	49	SF		2	E		75		FH
0070	HOLL	10	1823	1828	1832	N21	E61	10030	07 15.4	9	SF		3	E		60		
0071	HOLL	10	1914	1914	1920	N22	E69	10030	07 16.1	6	SF		3	E		19		
0072	HOLL	10	1925	1927	1928	N22	E69	10030	07 16.1	3	SF		3	E		19		
		10	2205		2328	No Flare Patrol												
		10	2339		2400	No Flare Patrol												
		11	0000		0023	No Flare Patrol												
0073		11	07102	0712	0716	N19	E65	10030	07 16.2	6	SF					26		F
	SVTO	11	0710	0712	0718	N19	E66	10030	07 16.3	8	SF		3	E		35		F
	LEAR	11	0712	0712	0714	N19	E65	10030	07 16.3	2	SF		3	E		16		F
	KANZ	11	0712E	0715U	0715D	N19	E64	10030	07 16.2	3D	SF		2	E				
		11	0831		0904	No Flare Patrol												
0074	SVTO	11	1006	1020	1031	N20	E66	10030	07 16.5	25	SF		3	E		18		F
0075	SVTO	11	1034	1037	1049	N22	E62	10030	07 16.2	15	SF		3	E		22		
0076	KANZ	11	1325	1325	1331	S11	E49		07 15.2	6	SF		2	E				
0077	KANZ	11	1417	1418	1425	N19	E60	10030	07 16.2	8	SF		2	E				
0078	KANZ	11	1446	1453	1513	N21	E56	10030	07 15.9	27	2N		2	E				
		11	2039		2101	No Flare Patrol												
		11	2113		2120	No Flare Patrol												
		11	2204		2213	No Flare Patrol												
		11	2218		2400	No Flare Patrol												
		12	0000		0004	No Flare Patrol												
0079	SVTO	12	0659	0659	0709	N20	E47	10030	07 15.9	10	SF		3	E		17		F
0080		12	0851	0851	0905	N22	E42	10030	07 15.6	14	SF					18		F
	LEAR	12	0851	0851	0903	N22	E41	10030	07 15.5	12	SF		2	E		18		F
	SVTO	12	0851	0851	0907	N22	E43	10030	07 15.7	16	SF		3	E		17		F
0081	RAMY	12	1217	1217	1226	N18	E46	10030	07 16.0	9	SF		3	E		11		
0082		12	13331	13372	1350	N18	E46	10030	07 16.1	17	SF					57		
	KANZ	12	1333	1337	1350	N18	E44	10030	07 15.9	17	SF		2	E				
	SVTO	12	1334	1339	1350	N17	E47	10030	07 16.1	16	SF		3	E		57		
0083	HOLL	12	1334	1348	1351	N18	E45	10030	07 16.0	17	SF		3	E		12		

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0084		12	13511	1352	1354	N18	E45	10030	07	16.0	3	SF					14		
	SVTO	12	1351	1352	1354	N17	E45	10030	07	16.0	3	SF		3	E		14		
	KANZ	12	1352	1352	1355	N19	E45	10030	07	16.0	3	SF		2	E				
0085	SVTO	12	1551	1551	1558	N18	E41	10030	07	15.8	7	SF		3	E		11		
		12	1948		1957	No Flare Patrol													
0086	HOLL	12	2204	2204	2210	N19	E40	10030	07	16.0	6	SF		3	E		22		
0087	HOLL	12	2324	2326	2352	N19	E40	10030	07	16.0	28	SF		3	E		54		U
0088	HOLL	12	2354		2438	N18	E38	10030	07	15.9	44	2F		3	E		285		FU
0089	LEAR	12	2358	2401	2438	N18	E31	10030	07	15.3	40	1F		1	E		121		FH
0090		13	00397	00472	0101	N21	E38	10030	07	15.9	22	1F					122		F
	HOLL	13	0039	0049	0103	N22	E38	10030	07	15.9	24	1F		3	E		169		F
	LEAR	13	0046	0047	0059	N20	E39	10030	07	16.0	13	SF		2	E		76		F
0091	LEAR	13	0404	0404	0410	N19	E37	10030	07	16.0	6	SF		3	E		15		F
0092	LEAR	13	0554	0555	0557	N18	E36	10030	07	16.0	3	SF		2	E		13		F
0093	LEAR	13	0642	0644	0649	N12	E51	10031	07	17.1	7	SF		3	E		19		FU
0094	KANZ	13	0731	0735	0750	N16	E46	10031	07	16.8	19	SN		2	E				
0095		13	0752	07531	0756	N20	E36	10030	07	16.1	4	SF					24		
	KANZ	13	0752	0753	0756	N20	E35	10030	07	16.0	4	SF		2	E				
	SVTO	13	0752	0754	0756	N20	E37	10030	07	16.1	4	SF		3	E		27		
	LEAR	13	0752	0754	0757	N19	E36	10030	07	16.1	5	SF		3	E		21		
0096		13	08131	08151	0822	N17	E34	10030	07	15.9	9	SF					42		F
	KANZ	13	0813	0816	0823	N17	E34	10030	07	15.9	10	SF		2	E				
	LEAR	13	0814	0815	0821	N16	E34	10030	07	15.9	7	SF		2	E		36		F
	SVTO	13	0814	0815	0823	N17	E35	10030	07	16.0	9	SF		3	E		48		
0097	KANZ	13	1230	1231	1236	S19	W11	10032	07	12.7	6	SF		2	E				
0098	KANZ	13	1500	1501	1504	S20	E22	10034	07	15.3	4	SF		2	E				
0099		13	17222	1724	1731	N20	E24	10030	07	15.5	9	SF					25		F
	HOLL	13	1722	1724	1729	N21	E21	10030	07	15.3	7	SF		3	E		25		F
	RAMY	13	1724	1724	1733	N20	E26	10030	07	15.7	9	SF		3	E		25		F
		13	1956		2020	No Flare Patrol													
		13	2033		2039	No Flare Patrol													
0100	HOLL	13	2344	2348	2353	N18	E19	10030	07	15.4	9	SF		3	E		21		
0101	SVTO	14	0517	0517	0532	N17	E21	10030	07	15.8	15	SF		3	E		15		F
0102	LEAR	14	0644	0644	0652	N19	E22	10030	07	15.9	8	SF		3	E		17		F
0103	KANZ	14	0845E	0847	0851	N20	E20	10030	07	15.9	6D	SF		2	E				
		14	1004		1008	No Flare Patrol													
		14	1011		1021	No Flare Patrol													
0104	RAMY	14	1357	1400	1407	N20	E10	10030	07	15.3	10	SF		3	E		15		F
0105		14	14567	15054	1532	N18	E13	10030	07	15.6	36	SF					30		
	RAMY	14	1456	1509	1556	N17	E15	10030	07	15.8	60	SF		3	E		39		
	HOLL	14	1503	1505	1507	N18	E11	10030	07	15.5	4	SF		3	E		21		
0106	HOLL	14	1511	1513	1515	N18	E15	10030	07	15.8	4	SF		3	E		39		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0107		14	1515	1517	1524	N18	E15	10030	07	15.8	9	SF					24		F
	HOLL	14	1515	1517	1524	N18	E15	10030	07	15.8	9	SF		3	E		29		
	SVTO	14	1517E	1517U	1523D	N17	E15	10030	07	15.8	6D	SF		2	E		20		F
0108	SVTO	14	1526	1527	1534	N18	E10	10030	07	15.4	8	SF		3	E		12		
0109	RAMY	14	1612	1612	1617	N20	E17	10030	07	16.0	5	SF		3	E		31		
		14	2021		2303	No Flare Patrol													
		14	2312		2333	No Flare Patrol													
0110	LEAR	15	0131	0133	0137	N19	E09	10030	07	15.8	6	SF		3	E		10		
0111	LEAR	15	0201	0203	0213	N24	E08	10030	07	15.7	12	SF		3	E		28		FH
0112	LEAR	15	0422	0423	0429	N19	E08	10030	07	15.8	7	SF		3	E		15		F
0113	LEAR	15	0506	0507	0527	N21	E09	10030	07	15.9	21	SF		4	E		62		F
0114	SVTO	15	0901	0904	0910	N18	E05	10030	07	15.7	9	SF		3	E		11		
0115	SVTO	15	1022	1030	1040	N19	E04	10030	07	15.7	18	SF		3	E		23		F
0116	SVTO	15	1112	1145	1245	N20	E04	10030	07	15.8	93	SF		3	E		89		F
0117		15	1353	1402	1423	N18	E01	10030	07	15.6	30	SF					57		F
	SVTO	15	1353	1402	1446	N19	E02	10030	07	15.7	53	SF		2	E		88		F
	KANZ	15	1357E	1403U	1415	N18	E01	10030	07	15.6	18D	SF		2	E				
	RAMY	15	1402E	1403U	1409	N18	E01	10030	07	15.7	7D	SF		3	E		26		F
0118		15	1700	1720	1748	N22	E06	10030	07	16.2	48	SF					16		
	HOLL	15	1700	1720	1748	N22	E06	10030	07	16.2	48	SF		3	E		20		
	SVTO	15	1705E	1715U	1738D	N21	E07	10030	07	16.2	33D	SF		1	E		13		
0119	HOLL	15	1839	1839	1852	N17	W01	10030	07	15.7	13	SF		3	E		39		
0120	HOLL	15	1950	2011	2334D	N19	W01	10030	07	15.7	224D	3B		3	E		733		FU
		15	2054		2328	No Flare Patrol													
0121	LEAR	16	0512	0513	0521	S09	E77	10036	07	22.0	9	SF		3	E		28		
0122	LEAR	16	0639	0640	0726	N22	W02	10030	07	16.1	47	SN		3	E		70		EF
0123		16	0703E	0716	0728D	N22	W02	10030	07	16.1	25D	1F					60		F
	SVTO	16	0703E	0711U	0728D	N23	W02	10030	07	16.1	25D	SF		2	E		60		F
	KANZ	16	0712E	0716	0718D	N22	W03	10030	07	16.1	6D	1F		2	E				
0124		16	11412	11421	1156	S06	E70	10036	07	21.7	15	SF					56		
	SVTO	16	1141	1142	1152	S06	E69	10036	07	21.6	11	SF		3	E		43		
	RAMY	16	1143	1143	1201	S07	E70	10036	07	21.7	18	SF		3	E		70		
0125	SVTO	16	1150	1156	1215D	N23	W05	10030	07	16.1	25D	SF		3	E		28		
0126	RAMY	16	1151	1202	1215	N18	W14	10030	07	15.4	24	SF		3	E		28		F
0127	RAMY	16	1202	1221	1237	S08	E71	10036	07	21.8	35	SF		3	E		22		H
0128		16	1332	1343	1451D	N20	W08	10030	07	15.9	79D	1F					46		F
	SVTO	16	1332	1341U	1451D	N19	W10	10030	07	15.8	79D	SF		3	E		46		F
	KANZ	16	1338E	1343	1405D	N22	W07	10030	07	16.0	27D	1F		2	E				
0129		16	1339*	14019	1445	N21	W08	10030	07	15.9	66	SF					51		F
	RAMY	16	1339	1410	1445	N23	W07	10030	07	16.0	66	SF		3	E		51		F
	KANZ	16	1358	1401	1405D	N19	W10	10030	07	15.8	7D	SF		2	E				
0130	KANZ	16	1402	1403	1405D	N21	W12	10030	07	15.7	3D	SF		2	E				
0131	SVTO	16	1514E	1515	1518	S16	W71	10025	07	11.2	4D	SF		3	E		22		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0132	RAMY	16	1536	1539	1549	N21	W09	10030	07 16.0	13	SF		3	E		18		F
0133		16	16142	16151	1632	N23	W07	10030	07 16.1	18	SF					12		F
	RAMY	16	1614	1615	1640	N23	W07	10030	07 16.1	26	SF		3	E		13		F
	SVTO	16	1616	1616	1624	N23	W07	10030	07 16.1	8	SF		3	E		10		F
0134	SVTO	16	1625	1632	1638	N23	W07	10030	07 16.1	13	SF		3	E		13		F
0135	RAMY	16	1622	1622	1643	S15	W67	10027	07 11.6	21	SF		3	E		15		
0136	RAMY	16	1707	1709	1712	S15	W72	10027	07 11.3	5	SF		3	E		15		
0137	RAMY	16	1719	1720	1725	S16	W73	10027	07 11.2	6	SF		3	E		12		F
0138	RAMY	16	1729	1730	1735	S15	W73	10027	07 11.2	6	SF		3	E		15		
0139		16	2124	21399	2206	N19	W14	10030	07 15.8	42	SF					34		F
	RAMY	16	2124	2139	2222D	N19	W14	10030	07 15.8	58D	SF		3	E		35		F
	HOLL	16	2124	2148	2206	N19	W15	10030	07 15.7	42	SF		3	E		33		F
0140	HOLL	16	2222	2224	2241	N16	E72	10037	07 22.4	19	SF		3	E		83		
0141	HOLL	16	2249	2255	2307	N20	W07	10030	07 16.4	18	SF		3	E		19		
0142	HOLL	16	2251	2253	2256	S05	E64	10036	07 21.7	5	SF		3	E		12		
		16	2309		2334	No Flare Patrol												
		16	2350		2400	No Flare Patrol												
0143	LEAR	17	0250	0251	0254	S08	E60	10036	07 21.6	4	SF		2	E		16		F
0144	LEAR	17	0255	0255	0300	S08	E60	10036	07 21.6	5	SF		2	E		22		F
0145	LEAR	17	0302	0303	0313	S08	E60	10036	07 21.6	11	SF		3	E		19		
0146	LEAR	17	0344	0345	0349	S08	E60	10036	07 21.6	5	SF		2	E		31		F
0147	LEAR	17	0350	0354	0401	S08	E60	10036	07 21.6	11	SF		3	E		47		
0148		17	0548	05502	0629	N20	W18	10030	07 15.9	41	1F					80		F
	LEAR	17	0548	0550	0629	N20	W18	10030	07 15.9	41	SF		3	E		56		F
	SVTO	17	0548	0552	0629	N21	W18	10030	07 15.9	41	1F		3	E		103		F
0149	LEAR	17	0552	0552	0603	S08	E58	10036	07 21.6	11	SF		3	E		13		
0150		17	06501	06521	0657	S06	E58	10036	07 21.6	7	SF					30		
	LEAR	17	0650	0652	0657	S06	E58	10036	07 21.6	7	SF		3	E		36		
	SVTO	17	0651	0653	0657	S06	E59	10036	07 21.7	6	SF		3	E		23		
0151		17	0701	0704	0753	N20	W16	10030	07 16.1	52	1B					198		FU
	LEAR	17	0701	0704	0747	N19	W16	10030	07 16.1	46	1B		3	E		183		UF
	SVTO	17	0701	0704	0759	N21	W17	10030	07 16.0	58	1B		3	E		213		UF
0152	LEAR	17	0809	0809	0815	S08	E57	10036	07 21.6	6	SF		3	E		19		
0153	LEAR	17	0825	0840	0857	N23	W18	10030	07 16.0	32	SF		3	E		26		F
		17	0929		0959	No Flare Patrol												
		17	1021		1039	No Flare Patrol												
0154	KHAR	17	1040E		1053	N21	W20	10030	07 15.9	13D	1F		2	V				B
0155	KHAR	17	1040E		1048	S18	W88	10025	07 10.7	8D	SF		2	V				H
0156	KHAR	17	1100U		1115U	S04	E56	10036	07 21.6	15U	SF		2	V				
		17	1103		1129	No Flare Patrol												
0157	KHAR	17	1115	1120	1129	S18	W88	10025	07 10.8	14	SN		2	V				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0158	KHAR	17	1128		1225	N19	W17	10030	07	16.2	57	1F		2	V				L
		17	1226		1300	No Flare Patrol													
0159	RAMY	17	1832	1833	1838	N17	E62	10037	07	22.5	6	SF		3	E		19		F
		17	1930		2035	No Flare Patrol													
0160	HOLL	17	2045	2050	2051	N24	W24	10030	07	16.0	6	SF		3	E		28		
0161	HOLL	17	2053	2056	2113	N23	W23	10030	07	16.1	20	SF		3	E		23		
		17	2306		2311	No Flare Patrol													
		18	0111		0215	No Flare Patrol													
0162	LEAR	18	0330E	0336U	0345D	N20	W27	10030	07	16.1	15D	SB		1	E		88		EF
0163		18	06473	06512	0658	N19	W32	10030	07	15.8	11	SF					11		F
	LEAR	18	0647E	0647U	0658	N18	W33	10030	07	15.8	11D	SF		2	E		10		F
	KANZ	18	0647	0653	0659	N19	W32	10030	07	15.8	12	SF		2	E				
	SVTO	18	0650	0651	0657	N19	W32	10030	07	15.8	7	SF		3	E		12		F
0164		18	07411	07431	0801	N19	W33	10030	07	15.8	20	2B					518	7.5	FU
	LEAR	18	0741	0743U	0800D	N19	W30	10030	07	16.0	19D	2B		3	E		440		UF
	SVTO	18	0741	0744	0807	N19	W34	10030	07	15.7	26	2B		3	E		525		UF
	MITK	18	0742	0743	0755	N19	W34	10030	07	15.7	13	2N			C	0743	588	7.5	U
0165	SVTO	18	0830	0833	0853	N21	W29	10030	07	16.1	23	SF		3	E		49		
0166		18	11531	11561	1215	N16	E52	10037	07	22.4	22	1F					104		F
	RAMY	18	1153	1157	1215	N17	E53	10037	07	22.5	22	1F		3	E		125		F
	SVTO	18	1154	1156	1217D	N16	E52	10037	07	22.4	23D	SF		3	E		82		F
		18	1242		1246	No Flare Patrol													
0167	RAMY	18	1745	1747	1754	N21	W37	10030	07	15.9	9	SF		3	E		10		F
0168	RAMY	18	1800	1802	1810	S09	E28	10035	07	20.8	10	SF		3	E		24		F
		18	1853		2000	No Flare Patrol													
0169	HOLL	18	2019	2019	2049	S06	E39	10036	07	21.8	30	SF		3	E		20		F
		18	2109		2400	No Flare Patrol													
		19	0000		0409	No Flare Patrol													
		19	0437		0442	No Flare Patrol													
0170	SVTO	19	0507	0510	0517	N19	W45	10030	07	15.8	10	SF		3	E		39		F
0171	KANZ	19	0551	0552	0554	N20	W43	10030	07	15.9	3	SF		2	E				
0172	SVTO	19	0626	0634	0656	N15	W40	10030	07	16.2	30	SF		3	E		17		F
0173	KANZ	19	0839	0840	0842	N19	W49	10030	07	15.6	3	SF		2	E				
0174	KANZ	19	0917	0918	0922	N20	W45	10030	07	15.9	5	SF		2	E				
		19	0933		1017	No Flare Patrol													
0175	SVTO	19	1019E	1021U	1037D	S09	E19	10035	07	20.8	18D	SF		2	E		29		
0176	RAMY	19	1248	1249	1253	N20	W49	10030	07	15.8	5	SF		3	E		49		FH
0177	RAMY	19	1811	1813	1831	N18	W46	10030	07	16.2	20	SF		3	E		66		FH
0178	RAMY	19	1846	1847	1904	N17	W47	10030	07	16.2	18	SF		3	E		30		F
0179	RAMY	19	1907	1907	1910	N17	W48	10030	07	16.1	3	SF		3	E		26		FU

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
0180	RAMY	19	1934	1942	1959	N18	W46	10030	07	16.3	25	SF		3	E		15		FH
0181	RAMY	19	2017	2018	2020	N21	W57	10030	07	15.5	3	SF		3	E		12		
		19	2233		2246	No Flare Patrol													
		19	2259		2329	No Flare Patrol													
		19	2334		2344	No Flare Patrol													
		19	2349		2400	No Flare Patrol													
		20	0000		0023	No Flare Patrol													
0182		20	0759E	0759U	0814	S11	E24	10036	07	22.1	15D	SF					34		F
	SVTO	20	0759E	0759U	0817D	S10	E25	10036	07	22.2	18D	SF		2	E		34		F
	KANZ	20	0801E	0801U	0814	S12	E22	10036	07	22.0	13D	SF		2	E				
0183	KANZ	20	0812	0812	0815	S07	E19	10036	07	21.8	3	SF		2	E				
0184		20	1232E	1242U	1259	N20	W60	10030	07	15.9	27D	1N					170		F
	SVTO	20	1232E	1242U	1256D	N20	W61	10030	07	15.8	24D	1N		2	E		186		F
	RAMY	20	1245E	1245U	1259	N20	W60	10030	07	15.9	14D	1N		2	E		155		
0185	SVTO	20	1301E	1305U	1311D	N21	W59	10030	07	16.0	10D	SF		2	E		74		
0186		20	13205	13254	1332	N16	E72	10038	07	26.0	12	SF					16		H
	KANZ	20	1320	1325	1332	N16	E71	10038	07	25.9	12	SF		2	E				
	RAMY	20	1325	1328	1332	N16	E72	10038	07	26.0	7	SF		2	E		14		H
	SVTO	20	1325	1329	1332	N17	E72	10038	07	26.0	7	SF		3	E		17		
0187	SVTO	20	1654	1655	1658	N21	W63	10030	07	15.9	4	SF		3	E		31		
0188		20	1701	1702	1704	N21	W64	10030	07	15.8	3	SF					42		FU
	RAMY	20	1701	1702	1704	N21	W63	10030	07	15.9	3	SF		3	E		27		U
	SVTO	20	1701E	1702U	1705D	N21	W64	10030	07	15.8	4D	SF		2	E		57		F
		20	2058		2400	No Flare Patrol													
		21	0000		0003	No Flare Patrol													
		21	0120		0146	No Flare Patrol													
0189		21	1335	1336	1341	S09	W17	10035	07	20.3	6	SF					22		
	SVTO	21	1335	1336	1340	S09	W17	10035	07	20.3	5	SF		3	E		17		
	KANZ	21	1335	1336	1342	S09	W17	10035	07	20.3	7	SF		2	E				
	RAMY	21	1335	1336	1342	S09	W17	10035	07	20.3	7	SF		3	E		26		
0190		21	15461	15471	1550	S09	W17	10035	07	20.4	4	SF					13		F
	SVTO	21	1546	1547	1549	S09	W18	10035	07	20.3	3	SF		3	E		14		
	RAMY	21	1547	1548	1550	S09	W16	10035	07	20.4	3	SF		3	E		12		F
		21	2244		2400	No Flare Patrol													
		22	0000		0221	No Flare Patrol													
0191	SVTO	22	0928	0930	0944	S12	W12	10036	07	21.5	16	SF		3	E		16		
0192		22	1616	1617	1619	N17	W78	10030	07	16.7	3	SF					21		
	HOLL	22	1616	1617	1619	N17	W76	10030	07	16.9	3	SF		3	E		24		
	RAMY	22	1616	1617	1619	N16	W80	10030	07	16.6	3	SF		3	E		20		
	SVTO	22	1616	1617	1619	N17	W78	10030	07	16.7	3	SF		3	E		18		
0193		22	16451	1649	1658	S08	W31	10035	07	20.4	13	SF					16		F
	RAMY	22	1645	1649	1659	S08	W31	10035	07	20.4	14	SF		3	E		14		F
	SVTO	22	1646	1647U	1700D	S07	W31	10035	07	20.4	14D	SF		2	E		17		F
	HOLL	22	1646	1649	1658	S08	W32	10035	07	20.3	12	SF		3	E		17		F
0194	RAMY	22	1913	1923	1933	S09	W28	10035	07	20.7	20	SF		3	E		23		F
		22	1947		2042	No Flare Patrol													
		22	2115		2131	No Flare Patrol													
		22	2135		2143	No Flare Patrol													
		22	2155		2214	No Flare Patrol													
0195	RAMY	22	2215E	2215U	2226D	S08	W33	10035	07	20.4	11D	SF		3	E		40		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 Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
		22	2227		2229	No Flare Patrol												
		22	2233		2330	No Flare Patrol												
0196		23	0023	0029	0240	S12	E70	10039	07 28.3	137	2B					236		EF
	HOLL	23	0021E	0032U	0159D	S11	E67	10039	07 28.0	98D	1B		3	E		184		F
	LEAR	23	0023	0029	0240	S13	E72	10039	07 28.4	137	2B		3	E		288		FE
0197	HOLL	23	0040	0043	0052	S11	W29	10035	07 20.8	12	SF		3	E		38		F
0198		23	0516	05221	0532	S08	W34	10035	07 20.7	16	SF					30		F
	SVTO	23	0516	0522	0529	S08	W34	10035	07 20.7	13	SF		3	E		27		F
	LEAR	23	0516	0523	0534	S07	W34	10035	07 20.7	18	SF		3	E		33		F
0199	LEAR	23	0542	0546	0610	S08	W22	10036	07 21.6	28	SF		3	E		15		F
0200	LEAR	23	0620	0628	0648	S08	W22	10036	07 21.6	28	SF		3	E		23		F
0201		23	09001	0904	0915	S08	W36	10035	07 20.7	15	SF					32		F
	LEAR	23	0900	0904	0907D	S07	W34	10035	07 20.8	7D	SF		2	E		25		F
	SVTO	23	0901	0904	0915	S08	W37	10035	07 20.6	14	SF		3	E		38		F
	KANZ	23	0907E		0915	S08	W38	10035	07 20.5	8D	SF		2	E				
0202	SVTO	23	1059	1102	1107	S08	W22	10036	07 21.8	8	SF		3	E		12		F
0203		23	2100*	2105*	2114	S07	W24	10036	07 22.1	14	SF					20		F
	HOLL	23	2100	2105	2108	S07	W24	10036	07 22.1	8	SF		3	E		27		F
	HOLL	23	2115	2115	2121	S07	W24	10036	07 22.1	6	SF		3	E		12		
0204	HOLL	23	2247	2248	2254	S20	E59	10044	07 28.5	7	SF		3	E		49		
		24	0002		0006	No Flare Patrol												
		24	0039		0100	No Flare Patrol												
		24	0134		0335	No Flare Patrol												
0205	LEAR	24	0322	0325U	0335	S16	E59	10039	07 28.6	13	SF		4	E		13		
0206	KANZ	24	1004	1006	1011	S20	E22	10042	07 26.1	7	SF		2	E				
0207	SVTO	24	1132	1134	1138	S09	E51	10039	07 28.3	6	SF		3	E		10		F
0208	RAMY	24	1241	1245	1400	S21	E49	10039	07 28.3	79	SF		3	E		12		F
0209		24	1514*	15441	1658	S14	E46	10039	07 28.1	104	1F					140		FH
	HOLL	24	1514	1545	1659	S13	E49	10039	07 28.3	105	1F		3	E		161		FH
	RAMY	24	1538	1544	1658	S15	E44	10039	07 28.0	80	1F		3	E		120		F
0210	HOLL	24	1746	1749	1753	S06	W40	10036	07 21.7	7	SF		3	E		27		
0211	HOLL	24	1812	1813	1823	S12	E51	10039	07 28.6	11	SF		3	E		21		
0212	HOLL	24	1845	1845	1855	S13	E51	10039	07 28.6	10	SF		3	E		15		
0213	HOLL	24	1914	1916	1920	S13	E47	10039	07 28.3	6	SF		3	E		24		
0214	HOLL	24	2032	2032	2039	S21	E49	10044	07 28.6	7	SF		3	E		11		
		24	2204		2400	No Flare Patrol												
0215	LEAR	25	0403	0403	0408	S13	E46	10039	07 28.6	5	SF		3	E		11		
0216	RAMY	25	1240	1240	1252	S21	E08	10042	07 26.1	12	SF		2	E		52		F
0217		25	14243	14245	1442	S13	W47	10036	07 22.0	18	SF					15		F
	RAMY	25	1424	1424	1446	S12	W47	10036	07 22.0	22	SF		3	E		16		F
	HOLL	25	1424	1429	1441	S14	W47	10036	07 22.0	17	SF		3	E		17		F
	SVTO	25	1427	1427	1438	S13	W48	10036	07 22.0	11	SF		3	E		13		
0218	HOLL	25	1439	1441	1445	S15	E36	10039	07 28.3	6	SF		3	E		17		F

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0219		25	1525	1525	1533	S13	W54	10036	07 21.6	8	SF					20		F
	SVTO	25	1525	1525	1532	S14	W54	10036	07 21.6	7	SF		3	E		15		
	RAMY	25	1525	1525	1534	S12	W54	10036	07 21.6	9	SF		3	E		25		F
0220		25	19021	19021	1910	S16	E44	10039	07 29.1	8	SF					18		
	HOLL	25	1902	1902	1910	S16	E44	10039	07 29.1	8	SF		3	E		18		
	RAMY	25	1903	1903	1909	S17	E44	10039	07 29.1	6	SF		3	E		17		
0221	HOLL	25	2111	2111	2117	S20	E33	10044	07 28.4	6	SF		3	E		40		F
		25	2145		2151	No Flare Patrol												
0222	HOLL	25	2258E	2307U	2317D	S20	E33	10044	07 28.5	19D	SF		2	E		88		FU
		25	2318		2400	No Flare Patrol												
		26	0000		0004	No Flare Patrol												
0223		26	0006E	0006U	0035	S20	E30	10044	07 28.3	29D	1N					110		U
	LEAR	26	0006E	0006U	0035	S19	E32	10044	07 28.4	29D	SF		1	E		45		
	HOLL	26	0007E	0014U	0020D	S20	E28	10044	07 28.1	13D	1N		2	E		175		U
0224		26	0631*	06412	0655	S20	E26	10044	07 28.3	24	SN					48	0.4	EF
	LEAR	26	0631	0641	0659	S20	E27	10044	07 28.3	28	SN		3	E		60		F
	KANZ	26	0632	0643	0700	S20	E26	10044	07 28.3	28	1F		2	E				
	MITK	26	0641	0642	0646	S21	E26	10044	07 28.3	5	SN			C	0642	35	0.4	E
0225		26	0657	07001	0718	S13	E30	10039	07 28.5	21	SF					24		F
	KANZ	26	0657	0700	0711	S12	E28	10039	07 28.4	14	SF		2	E				
	LEAR	26	0657	0701	0725	S14	E31	10039	07 28.6	28	SF		3	E		24		F
0226		26	0807	0828	0901	S19	E27	10044	07 28.4	54	1N					98		F
	LEAR	26	0807	0828	0901	S19	E27	10044	07 28.4	54	SN		3	E		77		F
	SVTO	26	0813E	0814U	0913D	S19	E27	10044	07 28.4	60D	1F		3	E		120		F
0227	SVTO	26	0813E	0814U	0820D	N19	E60	10048	07 30.9	7D	SF		3	E		29		
0228	LEAR	26	0920	0922	0929	S20	E30	10044	07 28.7	9	SF		1	E		30		F
		26	0933		0947	No Flare Patrol												
		26	0951		1145	No Flare Patrol												
		26	1150		1229	No Flare Patrol												
0229	HOLL	26	1304	1321	1439	S22	E29	10044	07 28.8	95	SF		3	E		68		FH
0230	HOLL	26	1328	1328	1334	N19	E58	10048	07 31.0	6	SF		3	E		15		
0231	SVTO	26	1338E	1342U	1347D	S19	E24	10044	07 28.4	9D	SF		3	E		75		F
0232	HOLL	26	1530	1537	1546	S20	E22	10044	07 28.3	16	SF		3	E		23		F
0233	HOLL	26	1607	1613	1634	S18	E19	10044	07 28.1	27	SF		3	E		35		F
0234	HOLL	26	1658	1659	1705	S19	E22	10044	07 28.4	7	SF		3	E		13		
0235	HOLL	26	1817	1821	1837	S22	E18	10044	07 28.1	20	SF		3	E		47		F
0236	HOLL	26	1838	1838	1842	S20	E21	10044	07 28.4	4	SF		3	E		12		F
0237	HOLL	26	1845	1901	1909	S21	E21	10044	07 28.4	24	SF		3	E		97		FH
0238	HOLL	26	1910	1910	1918	S18	E17	10044	07 28.1	8	SF		3	E		12		
0239	HOLL	26	1925	1925	1929	S18	E24	10044	07 28.6	4	SF		3	E		15		
0240	HOLL	26	2051	2113	2259D	S19	E26	10044	07 28.8	128D	2N		3	E		360		FH
0241	HOLL	26	2141	2143	2147	S11	E19	10039	07 28.3	6	SF		3	E		45		F
		26	2300		2330	No Flare Patrol												

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0242	LEAR	26	2331E	2331U	2600	S18	E20	10044	07 28.5	149D	1N		1	E		124		FT
0243	LEAR	27	0214	0216	0222	S14	E14	10039	07 28.1	8	SF		2	E		23		F
0244	LEAR	27	0435	0438	0446	S20	E12	10044	07 28.1	11	SF		3	E		28		F
0245	LEAR	27	0628	0631	0652	S12	E15	10039	07 28.4	24	SF		3	E		19		F
0246	LEAR	27	0836	0837	0842	S11	E12	10039	07 28.3	6	SF		3	E		19		F
		27	0917		0945	No Flare Patrol												
		27	0954		1002	No Flare Patrol												
		27	1004		1011	No Flare Patrol												
		27	1022		1034	No Flare Patrol												
		27	1114		1157	No Flare Patrol												
		27	1204		1205	No Flare Patrol												
		27	1221		1225	No Flare Patrol												
		27	1237		1242	No Flare Patrol												
		27	1246		1252	No Flare Patrol												
0247	HOLL	27	1343	1343	1347	S21	E13	10044	07 28.6	4	SF		3	E		13		F
		27	1359		1409	No Flare Patrol												
0248	HOLL	27	1511	1512	1515	S11	E08	10039	07 28.2	4	SF		3	E		37		
0249	HOLL	27	1558	1602	1606	S08	E27	10050	07 29.7	8	SF		3	E		18		
0250	HOLL	27	1608	1621	1627	S07	E27	10050	07 29.7	19	SF		3	E		13		
0251	HOLL	27	1948	1948	1952	S08	E25	10050	07 29.7	4	SF		3	E		13		
		28	0007		0029	No Flare Patrol												
0252	LEAR	28	0030E	0030U	0125	S22	E07	10044	07 28.5	55D	1N		2	E		109		F
0253	LEAR	28	0031	0032	0042	S11	E03	10039	07 28.2	11	SF		2	E		23		F
0254	LEAR	28	0418	0422	0431	S13	E04	10039	07 28.5	13	SF		3	E		19		F
0255	LEAR	28	0555	0557	0612	S19	W02	10044	07 28.1	17	SF		3	E		46		F
0256		28	06374	06403	0646	S12	E01	10039	07 28.3	9	SF					14		
	KANZ	28	0637	0640	0645	S11	E01	10039	07 28.3	8	SF		2	E				
	LEAR	28	0641	0643	0647	S12	E01	10039	07 28.3	6	SF		3	E		14		
0257	LEAR	28	0842	0844	0853	S19	E03	10044	07 28.6	11	SF		3	E		30		F
0258	KANZ	28	0842	0843	0851	S18	W05	10044	07 28.0	9	SF		2	E				
0259	KANZ	28	1053	1054	1101	S11	W02	10039	07 28.3	8	SF		2	E				
0260		28	1054*	11041	1122	S14	E00	10039	07 28.4	28	SF					58		F
	SVTO	28	1054	1104	1126	S14	E00	10039	07 28.4	32	SF		3	E		58		F
	KANZ	28	1104	1105	1119	S14	W00	10039	07 28.5	15	SF		2	E				
0261		28	1048*	10499	1058	S08	E16	10050	07 29.6	10	SF					26		
	SVTO	28	1048	1049	1053	S08	E16	10050	07 29.6	5	SF		3	E		38		
	SVTO	28	1058	1058	1102	S07	E16	10050	07 29.6	4	SF		3	E		14		
0262		28	11401	11411	1148	S07	E14	10050	07 29.5	8	SF					23		F
	KANZ	28	1140	1141	1147	S07	E13	10050	07 29.4	7	SF		2	E				
	SVTO	28	1141	1142	1149	S07	E14	10050	07 29.5	8	SF		3	E		23		F
0263	HOLL	28	1336E	1339U	1346	N13	W09	10043	07 27.9	10D	SF		3	E		55		
		28	1425		1502	No Flare Patrol												
0264	SVTO	28	1458E	1459U	1506	S15	E00	10039	07 28.6	8D	SF		2	E		20		

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		28	1536		1550	No Flare Patrol												
		28	1554		2042	No Flare Patrol												
0265	HOLL	28	2044E	2053U	2108D	N11	W11	10043	07 28.0	24D	SF		3	E		47		
0266	HOLL	28	2125E	2129U	2134D	S07	E10	10050	07 29.6	9D	SF		3	E		64		F
		28	2157		2224	No Flare Patrol												
		28	2254		2334	No Flare Patrol												
		28	2340		2400	No Flare Patrol												
		29	0000		0059	No Flare Patrol												
		29	0227		0249	No Flare Patrol												
0267	LEAR	29	0250E	0250U	0255	S20	W14	10044	07 28.0	5D	1F		3	E		155		F
0268		29	0621	0627	0645	S11	W14	10039	07 28.2	24	SF					52		F
	SVTO	29	0617E	0624U	0624D	S11	W15	10039	07 28.1	7D	SF		1	E		52		F
	KANZ	29	0621	0627	0645	S11	W13	10039	07 28.3	24	SF		2	E				
0269	LEAR	29	0635	0640	0655	S13	W10	10039	07 28.5	20	SF		3	E		70		F
		29	0933		0944	No Flare Patrol												
0270	KHAR	29	1021		1032	S03	W05	10050	07 29.0	11	SF		3	P				E
0271		29	10281	10345	1140	S12	W14	10039	07 28.4	72	2N					480	5.2	I
	KANZ	29	1028	1039	1136	S13	W14	10039	07 28.4	68	1F		2	E				
	KHAR	29	1029	1034	1145	S12	W13	10039	07 28.4	76	2B		3	P	1044	480	5.2	I
0272	KHAR	29	1156		1220	S08	E02	10050	07 29.6	24	1F		2	P	1206	210		EO
0273	KHAR	29	1206U		1225	N21	E20	10048	07 31.0	19U	SN		2	P	1206	65		DO
0274	SVTO	29	1521	1608	1633	S08	W01	10050	07 29.6	72	SF		3	E		68		F
0275	HOLL	29	1530	1534	1540	S08	W01	10050	07 29.6	10	SF		3	E		18		
0276	SVTO	29	1626	1626	1632	S13	W18	10039	07 28.3	6	SF		3	E		17		
0277	SVTO	29	1704	1706	1722	S20	W24	10044	07 27.9	18	SF		2	E		22		F
0278	HOLL	29	1808	1810	1813	S14	W16	10039	07 28.5	5	SF		3	E		20		F
0279	HOLL	29	1937	1939	1956	S09	W02	10050	07 29.7	19	SF		3	E		87		F
0280	HOLL	29	2033	2036	2041	N14	W53	10038	07 25.8	8	SF		3	E		24		
0281	HOLL	29	2052	2054	2057	S10	W03	10050	07 29.6	5	SF		3	E		33		
0282	HOLL	29	2102	2109	2137	S08	W03	10050	07 29.6	35	SF		3	E		53		F
		29	2235		2248	No Flare Patrol												
		29	2255		2326	No Flare Patrol												
		30	0031		0042	No Flare Patrol												
		30	0221		0308	No Flare Patrol												
0283		30	0527	0528	0536	S13	W24	10039	07 28.4	9	SF					23		F
	SVTO	30	0527	0528	0536	S13	W24	10039	07 28.4	9	SF		3	E		23		F
	KANZ	30	0530E		0537	S13	W24	10039	07 28.4	7D	SF		2	E				
0284		30	0556	0557	0600	S12	W24	10039	07 28.4	4	SF					21		
	KANZ	30	0556	0557	0559	S12	W25	10039	07 28.4	3	SF		2	E				
	SVTO	30	0556	0557	0600	S13	W23	10039	07 28.5	4	SF		3	E		21		
0285	SVTO	30	0616	0624	0634	S08	W27	10039	07 28.2	18	SF		3	E		12		
0286		30	0717	07191	0730	S10	W27	10039	07 28.3	13	SF					28		F
	KANZ	30	0717	0719	0728	S09	W28	10039	07 28.2	11	SF		2	E				
	LEAR	30	0717	0719U	0732	S12	W24	10039	07 28.5	15	SF		3	E		32		F
	SVTO	30	0717	0720	0729	S09	W28	10039	07 28.2	12	SF		3	E		23		F

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0287	KHAR	30	1042		1050	S15	W16	10039	07 29.2	8	SF		3	P	1042	35		DO
0288	SVTO	30	1131	1134	1144	S19	W30	10044	07 28.2	13	SF		3	E		17		
0289	KHAR	30	1209	1210	1214	N12	W82		07 24.3	5	SF		2	V				D
		30	1250		1456	No Flare Patrol												
0290	SVTO	30	1512E	1518U	1522	S19	W27	10044	07 28.6	10D	SF		2	E		60		F
0291	SVTO	30	1540	1541	1545	N20	E03	10048	07 30.9	5	SF		2	E		21		
		30	1752		1800	No Flare Patrol												
		30	1902		1936	No Flare Patrol												
		30	2055		2151	No Flare Patrol												
		30	2231		2335	No Flare Patrol												
0292	LEAR	31	0046	0047	0051	S07	W17	10050	07 29.7	5	SF		3	E		19		
0293	LEAR	31	0050	0051	0105	S19	W34	10044	07 28.4	15	SF		3	E		49		F
0294	LEAR	31	0113	0115	0151	N18	W71	10038	07 25.6	38	SB		3	E		45		F
0295	LEAR	31	0144	0149	0230	S13	W30	10039	07 28.8	46	SB		3	E		73		FU
0296	LEAR	31	0207	0209	0222	S08	W22	10050	07 29.4	15	SF		3	E		12		
0297	LEAR	31	0445	0445	0459	S18	W39	10044	07 28.2	14	SF		3	E		40		F
0298	LEAR	31	0455	0456	0503	S09	W24	10050	07 29.4	8	SF		3	E		17		
0299		31	07183	0724	0730	S08	W26	10050	07 29.3	12	SF					16		F
	LEAR	31	0718	0724	0730	S09	W26	10050	07 29.3	12	SF		3	E		16		F
	KANZ	31	0721	0724	0729	S07	W27	10050	07 29.3	8	SF		2	E				
0300	KANZ	31	0953	0956	1001	S20	W45	10044	07 28.0	8	SF		2	E				
0301	SVTO	31	1010	1010	1017	S18	W42	10044	07 28.2	7	SF		3	E		25		
0302	KHAR	31	1048		1109	S11	W26	10050	07 29.5	21	SF		2	P				ET
0303		31	1109	1117U	1119U	S16	W33	10039	07 29.0	10U	SF					25		EFT
	KHAR	31	1109		1119U	S16	W32	10039	07 29.0	10U	SF		2	P				TE
	SVTO	31	1115E	1117U	1117D	S16	W34	10039	07 28.9	2D	SF		2	E		25		F
0304	KHAR	31	1117		1155U	S11	W27	10050	07 29.4	38U	SF		2	P				ET
0305	KHAR	31	1159		1210D	S11	W28	10050	07 29.4	11D	SN		2	P				T
		31	1211		1227	No Flare Patrol												
0306	KHAR	31	1228E		1235	S10	W29	10050	07 29.3	7D	SN		2	V				DHT
0307	KHAR	31	1317	1318	1325D	S11	W28	10050	07 29.4	8D	SF		2	V				LT
0308	HOLL	31	1340	1340	1342	S09	W29	10050	07 29.4	2	SF		3	E		16		
0309	HOLL	31	1415	1418	1423	S09	W31	10050	07 29.3	8	SF		3	E		11		F
0310	HOLL	31	1513	1514	1515	S10	W30	10050	07 29.4	2	SF		3	E		17		
0311	HOLL	31	1524	1525	1529	S09	W30	10050	07 29.4	5	SF		3	E		33		
0312	HOLL	31	1703	1704	1707	S10	W32	10050	07 29.3	4	SF		3	E		10		
0313	HOLL	31	1842	1842	1844	S10	W32	10050	07 29.4	2	SF		3	E		11		
0314	HOLL	31	2001	2003U	2019D	N21	W12	10048	07 30.9	18D	SF		3	E		90		
		31	2043		2106	No Flare Patrol												

Hα SOLAR FLARES

JULY 2002

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0315	HOLL	31	2117E	2117U	2123D	S20	W40	10044	07	28.8	6D	SF		3	E		12		
0316	HOLL	31	2305	2305	2308	S09	W34	10050	07	29.4	3	SF		3	E		16		
0317	HOLL	31	2343	2345	2425	S13	W44	10039	07	28.7	42	1F		3	E		123		FH
0318	HOLL	31	2345	2345	2355	S22	W47	10044	07	28.4	10	SF		3	E		15		

"Remarks"

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

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