

4  
Nov 97

H $\alpha$  SOLAR FLARES

NOVEMBER 1997

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																	Apparent (10-6 Disk)	Corr (Sq Deg)		
0001		01	01092	01123	0122	S18	E10	8100	11	1.8	13	SF					70	0.1		
	VORO	01	0109	0112	0121	S17	E10	8100	11	1.8	12	SF		2	C	0112	116	10.0		
	LEAR	01	0111	0115	0124	S19	E10	8100	11	1.8	13	SF		3	E		24			
0002	LEAR	01	0457	0503	0513	S19	E08	8100	11	1.8	16	SF		3	E		14			
0003	LEAR	02	0302	0304	0311	S20	E01	8100	11	2.2	9	SB		3	E		58			
0004		02	09211	09212	0928	S16	W08	8100	11	1.8	7	SF					30			
	KANZ	02	0921	0921	0929	S16	W07	8100	11	1.8	8	SF		2	C					
	LEAR	02	0922	0923	0927	S15	W10	8100	11	1.6	5	SF		3	E		30			
0005		02	11312	11321	1136	S17	W06	8100	11	2.0	5	SF					15			
	RAMY	02	1131	1132	1135	S17	W06	8100	11	2.0	4	SF		3	E		15			
	KANZ	02	1133	1133	1137	S17	W05	8100	11	2.1	4	SF		2	C					
0006	HOLL	02	1743	1743	1746	S20	W07	8100	11	2.2	3	SF		3	E		14		H	
0007	HOLL	02	1825	1834	1839	S20	W08	8100	11	2.1	14	SF		3	E		24			
0008	RAMY	02	1831	1834	1837	S16	W17	8100	11	1.5	6	SF		4	E		10		H	
0009	HOLL	02	1902	1907	1913	S20	W09	8100	11	2.1	11	SF		3	E		16		F	
0010	HOLL	02	2022	2022	2026	S22	W10	8100	11	2.1	4	SF		3	E		13			
0011	HOLL	02	2046	2048	2101	S18	W11	8100	11	2.0	15	SF		3	E		34			
0012	HOLL	02	2102	2106	2115	S15	W16	8100	11	1.7	13	SF		3	E		37			
0013	HOLL	02	2117	2120	2130	S20	W09	8100	11	2.2	13	SF		3	E		28			
0014	HOLL	02	2253	2254	2311	S20	W10	8100	11	2.2	18	SF		3	E		12			
0015	HOLL	02	2326	2334	2342	S19	W13	8100	11	2.0	16	SF		3	E		18			
0016	LEAR	03	0038	0039	0056	S20	W11	8100	11	2.2	18	SF		3	E		37			
0017	LEAR	03	0117	0121	0124	S20	W11	8100	11	2.2	7	SF		3	E		14			
0018	LEAR	03	0148	0152	0213	S20	W11	8100	11	2.2	25	SF		3	E		56			
0019	LEAR	03	0434	0437	0502	S20	W13	8100	11	2.2	28	SB		3	E		82			
0020	KANZ	03	0757	0757	0809	S16	W24	8100	11	1.5	12	SF		2	C					
0021		03	08152	08156	0826	S19	W17	8100	11	2.0	11	SF					21		BH	
	HURB	03	0815	0815	0822	S18	W20	8100	11	1.8	7	1F							BH	
	LEAR	03	0816	0817	0828	S20	W15	8100	11	2.2	12	SF		3	E		21			
	KANZ	03	0817	0821	0829	S19	W17	8100	11	2.0	12	SF		2	C					
0022	SVTO	03	0832E	0832U	0841D	S18	W19	8100	11	1.9	9D	SF		1	E		60		F	
0023		03	09051	0909	0924	S18	W16	8100	11	2.2	19	1B					175			
	KANZ	03	0905	0909	0925	S16	W18	8100	11	2.0	20	1N		2	C					
	LEAR	03	0906	0909	0923	S20	W15	8100	11	2.2	17	1B		3	E		175			
0024	HURB	03	0922	0926	0942	S17	W21	8100	11	1.8	20	3N								
0025	KANZ	03	0929	0929	0933	S22	W12	8100	11	2.5	4	SF		2	C					
0026	KANZ	03	1021	1029	1049	S17	W22	8100	11	1.7	28	1N		2	C					
		03	1106		1112	No Flare Patrol														
0027	KANZ	03	1213	1217	1221	S16	W27	8100	11	1.5	8	SF		2	C					

H $\alpha$  SOLAR FLARES

5  
Nov 97

NOVEMBER 1997

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														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0028	03	12223	12232	1237	S19	W20	8100	11	2.0	15	SF				53		FH
	SVTO	03 1211E	1223U	1230D	S19	W20	8100	11	2.0	19D	SF	1	E		70		F
	RAMY	03 1222	1223	1233D	S18	W20	8100	11	2.0	11D	SF	3	E		36		FH
	KANZ	03 1225	1225	1237	S19	W19	8100	11	2.1	12	SF	2	C				
0029	KANZ	03 1237	1237	1237	S21	W13	8100	11	2.5	12	SF	2	C				
0030	KANZ	03 1249	1253	1257	S18	W21	8100	11	1.9	8	SF	2	C				
0031	KANZ	03 1349	1349	1349	S16	W27	8100	11	1.5	8	SF	2	C				
0032	03	1349	13492	1356	S18	W20	8100	11	2.0	7	SF				18		FH
	KANZ	03 1349	1349	1357	S19	W19	8100	11	2.1	8	SF	2	C				
	RAMY	03 1349	1351	1355	S18	W22	8100	11	1.9	6	SF	3	E		18		FH
0033	KANZ	03 1357	1357	1401	S20	W16	8100	11	2.3	4	SF	2	C				
0034	03	17022	1706	1713	S17	W27	8100	11	1.6	11	SF				32		F
	RAMY	03 1702	1706	1717D	S17	W26	8100	11	1.7	15D	SF	3	E		42		F
	HOLL	03 1704	1706	1713	S17	W28	8100	11	1.6	9	SF	3	E		21		
0035	HOLL	03 1809	1810	1850	S19	W20	8100	11	2.2	41	SF	3	E		40		
0036	RAMY	03 1842E	1842U	1858D	S19	W21	8100	11	2.2	16D	SF	3	E		34		F
0037	HOLL	03 1901	1907	1922	S20	W21	8100	11	2.2	21	SF	3	E		72		
0038	HOLL	03 1955	2008	2109	S19	W20	8100	11	2.3	74	SF	3	E		84		
0039	HOLL	03 2114	2116	2121	S20	W22	8100	11	2.2	7	SF	3	E		18		
0040	HOLL	03 2122	2147	2203	S19	W22	8100	11	2.2	41	SF	3	E		63		
0041	HOLL	03 2220	2249	2337	S19	W23	8100	11	2.2	77	SN	3	E		70		
0042	LEAR	03 2231	2301	2330	S20	W23	8100	11	2.2	59	1N	3	E		103		
0043	LEAR	03 2336	2342	2352	S20	W23	8100	11	2.2	16	SF	3	E		43		
0044	LEAR	03 2356	2358	2401	S20	W23	8100	11	2.2	5	SF	3	E		28		
0045	LEAR	04 0040	0043	0050	S20	W24	8100	11	2.2	10	SF	3	E		46		
0046	LEAR	04 0056	0118	0121	S20	W24	8100	11	2.2	25	SF	3	E		16		
0047	LEAR	04 0128	0132	0201	S20	W24	8100	11	2.2	33	1N	3	E		124		
0048	LEAR	04 0303	0328	0500	S20	W25	8100	11	2.2	117	1F	3	E		218		
0049	URUM	04 0404	0417	0440	S19	W25	8100	11	2.3	36	1B		C		402	5.0	E
0050	LEAR	04 0509	0509	0516	N20	E23	8103	11	6.0	7	SF	3	E		13		
0051	LEAR	04 0510	0512	0551	S13	W33	8100	11	1.7	41	SF	3	E		30		
0052	URUM	04 0525	0536	0551	S16	W26	8100	11	2.2	26	2N		C		514	6.3	E
0053	LEAR	04 0547	0548	0600	N19	E21	8103	11	5.8	13	SF	3	E		20		
0054	04	05541	0559	0648	S14	W34	8100	11	1.7	54	3B				678	13.8	CF
	LEAR	04 0554	0559	0713	S14	W33	8100	11	1.7	79	2B	3	E		312		
	URUM	04 0555	0559	0622	S15	W34	8100	11	1.7	27	3B		C		1045	13.8	C F
0055	LEAR	04 0649	0652	0658	N19	E21	8103	11	5.9	9	SF	3	E		15		
0056	LEAR	04 0715	0716	0728	S20	W27	8100	11	2.2	13	SF	3	E		27		
0057	LEAR	04 0806	0808	0827	S20	W28	8100	11	2.2	21	SF	3	E		29		

6  
Nov 97

H $\alpha$  SOLAR FLARES

NOVEMBER 1997

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0058	RAMY	04	1117	1127	1137	S19	W31	8100	11	2.1	20	SF	3	E	12		F	
0059	RAMY	04	1124	1131	1151	N22	E14	8103	11	5.5	27	SF	3	E	24		F	
0060	RAMY	04	1247	1249	1256	S20	W29	8100	11	2.3	9	SF	3	E	21		F	
0061	RAMY	04	1257	1303	1308	S19	W29	8100	11	2.3	11	SF	4	E	47		F	
0062	RAMY	04	1449	1449	1453	S19	W31	8100	11	2.2	4	SF	4	E	48		F	
0063	HOLL	04	1455	1457	1500	N21	E16	8103	11	5.8	5	SF	3	E	16			
0064	HOLL	04	1523	1527	1534	N21	E17	8103	11	5.9	11	SF	3	E	20			
0065	HOLL	04	1536	1540	1542	N21	E17	8103	11	5.9	6	SF	3	E	10			
0066	HOLL	04	1604	1612	1625	N21	E16	8103	11	5.9	21	SF	3	E	10			
0067		04	17301	1736	1743	S18	W32	8100	11	2.3	13	SF			53		F	
	RAMY	04	1730	1736	1739	S19	W32	8100	11	2.3	9	SF	4	E	31		F	
	HOLL	04	1731	1736	1747	S18	W31	8100	11	2.4	16	SF	3	E	75			
0068		04	1759	18001	1804	S18	W36	8100	11	2.0	5	SF			17			
	RAMY	04	1759	1800	1804	S19	W35	8100	11	2.1	5	SF	4	E	18			
	HOLL	04	1759	1801	1804	S18	W37	8100	11	1.9	5	SF	3	E	16			
0069	HOLL	04	1806	1807	1810	S18	W37	8100	11	1.9	4	SF	3	E	38			
0070		04	1814	18141	1820	S19	W36	8100	11	2.0	6	SF			20		F	
	RAMY	04	1814	1814	1829D	S20	W36	8100	11	2.0	15D	SF	3	E	12		F	
	HOLL	04	1814	1815	1820	S18	W37	8100	11	1.9	6	SF	3	E	28			
0071	HOLL	04	1837	1839	1855	S18	W37	8100	11	1.9	18	SF	3	E	20			
0072	HOLL	04	1847	1848	1854	N21	E15	8103	11	5.9	7	SF	3	E	10			
0073	HOLL	04	1855	1903	1906	N21	E14	8103	11	5.9	11	SF	3	E	17			
0074	HOLL	04	1928	1928	1935	S19	W36	8100	11	2.1	7	SF	3	E	13			
0075	RAMY	04	2026	2037	2047	S19	W36	8100	11	2.1	21	SF	3	E	24			
0076	HOLL	04	2101	2101	2105	S18	W38	8100	11	2.0	4	SF	3	E	32			
		04	2318		2323	No Flare Patrol												
0077	HOLL	04	2326	2330	2339	S18	W39	8100	11	2.0	13	SF	3	E	16			
		04	2344		2400	No Flare Patrol												
0078	LEAR	05	0157	0201	0207	S20	W38	8100	11	2.2	10	SF	3	E	39			
0079	LEAR	05	0208	0208	0212	S13	W47	8100	11	1.5	4	SF	3	E	34			
0080	LEAR	05	0218	0229	0234	S12	W48	8100	11	1.5	16	SF	3	E	17			
0081	LEAR	05	0234	0238	0240	S13	W47	8100	11	1.6	6	SF	3	E	17			
0082	LEAR	05	0247	0251	0258	N21	E08	8103	11	5.7	11	SF	3	E	23			
0083	LEAR	05	0337	0338	0344	S11	W47	8100	11	1.6	7	SF	3	E	14			
0084		05	0333*	0348	0354	S14	W44	8100	11	1.8	21	1N			201	4.7	E	
	URUM	05	0333	0348	0351	S17	W41	8100	11	2.0	18	1N		C	321	4.7	E	
	LEAR	05	0346	0348	0357	S11	W48	8100	11	1.5	11	SF	3	E	81			
0085		05	04032	0407	0418	S16	W38	8100	11	2.3	15	1N			154	3.9	EF	
	URUM	05	0403	0407	0423	S17	W39	8100	11	2.2	20	1B		C	273	3.9	E	
	LEAR	05	0405	0407	0414	S16	W38	8100	11	2.3	9	SF	3	E	34		F	

H $\alpha$  SOLAR FLARES

7  
Nov 97

NOVEMBER 1997

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
							Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	
0086	LEAR	05 0418	0419	0428	S20	W40	8100	11	2.1	10	SF	3	E	38		
		05 0541		0546	No Flare Patrol											
0087	LEAR	05 0622	0637	0713	S13	W49	8100	11	1.6	51	1N	3	E	136		F
0088	05	0803	0803	0814	S19	W44	8100	11	2.0	11	SF			17		F
	LEAR	05 0803	0803	0815	S20	W42	8100	11	2.1	12	SF	3	E	17		F
	KANZ	05 0809E	0809U	0813	S18	W47	8100	11	1.8	4D	SF	2	C			
		05 0923		0929	No Flare Patrol											
		05 0948		0954	No Flare Patrol											
0089	KANZ	05 1003	1007	1015D	S21	W44	8100	11	2.0	12D	SF	2	C			
		05 1016		1022	No Flare Patrol											
		05 1024		1039	No Flare Patrol											
		05 1053		1335	No Flare Patrol											
		05 1339		1359	No Flare Patrol											
0090	HOLL	05 1523	1530	1556D	S20	W45	8100	11	2.2	33D	SF	3	E	26		
0091	RAMY	05 1631	1631	1637	S19	W46	8100	11	2.2	6	SF	3	E	18		F
0092	05	1841	1842	1916	N22	W02	8103	11	5.6	35	SF			30		FH
	HOLL	05 1841	1842	1916	N22	W02	8103	11	5.6	35	SF	3	E	34		FH
	RAMY	05 1856E	1856U	1916D	N23	W02	8103	11	5.6	20D	SF	3	E	25		
0093	HOLL	05 1923	1925	1932	S19	W50	8100	11	2.0	9	SF	3	E	13		FH
0094	HOLL	05 1937	1942	1944	S19	W49	8100	11	2.1	7	SF	3	E	11		
0095	HOLL	05 2012	2016	2028	S19	W51	8100	11	1.9	16	SF	3	E	13		
0096	LEAR	05 2323	2412	2417	N22	W03	8103	11	5.7	54	SF	3	E	48		
0097	HOLL	05 2325	2335	2344D	S19	W54	8100	11	1.8	19D	1F	3	E	192		
0098	LEAR	06 0052	0059	0118	S20	W51	8100	11	2.1	26	SF	3	E	61		
0099	LEAR	06 0119	0122	0136	N22	W05	8103	11	5.7	17	SF	3	E	20		
0100	LEAR	06 0219	0221	0223	S20	W52	8100	11	2.1	4	SF	3	E	28		
0101	LEAR	06 0314	0317	0331	S15	W56	8100	11	1.9	17	1F	3	E	107		FH
0102	LEAR	06 0522	0531	0546	N22	W05	8103	11	5.8	24	SF	3	E	51		
0103	LEAR	06 0929	0931	0946	S15	W59	8100	11	1.9	17	SF	3	E	13		
0104	RAMY	06 1122E	1156	1244	S18	W63	8100	11	1.7	82D	2B	3	E	353		FH
0105	HOLL	06 1415	1417	1419	S19	W60	8100	11	2.0	4	SF	3	E	44		
		06 2246		2306	No Flare Patrol											
0106	LEAR	07 0013	0013	0023	S15	W67	8100	11	1.9	10	SF	3	E	22		
0107	LEAR	07 0919	0925	0939	N22	W21	8103	11	5.8	20	SF	3	E	36		
		07 1001		1045	No Flare Patrol											
0108	RAMY	07 1125E	1125U	1145	N29	E79	8104	11	13.7	20D	SF	2	E	24		
0109	RAMY	07 1329	1330	1337	N29	E80	8104	11	13.8	8	SF	4	E	33		
		08 0635		0643	No Flare Patrol											
		08 1229		1409	No Flare Patrol											
		09 1537		1549	No Flare Patrol											

8  
Nov 97

H $\alpha$  SOLAR FLARES

NOVEMBER 1997

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0110	RAMY	09	1622	1623	1643	N21	W53	8103	11	5.6	21	SF	4	E	17		E	
		09	1631		1723			No Flare Patrol										
		09	1739		1854			No Flare Patrol										
		09	2027		2100			No Flare Patrol										
		09	2117		2243			No Flare Patrol										
		09	2247		2258			No Flare Patrol										
		09	2344		2351			No Flare Patrol										
0111	LEAR	10	0525	0531	0544	N22	W59	8103	11	5.7	19	SF	3	E	27			
0112	LEAR	10	0546	0554	0559	N22	W59	8103	11	5.7	13	SF	3	E	22			
0113	LEAR	10	0601	0604	0608	N22	W59	8103	11	5.7	7	SF	3	E	20			
0114		10	0703	0709	0717	N20	W60	8103	11	5.7	14	SF			32		F	
	LEAR	10	0703	0709	0717	N22	W60	8103	11	5.7	14	SF	3	E	35			
	SVTO	10	0706E	0715U	0735D	N17	W59	8103	11	5.8	29D	SF	2	E	29		F	
		10	0835		0859			No Flare Patrol										
		10	0905		1011			No Flare Patrol										
		10	1223		1227			No Flare Patrol										
		10	1300		1306			No Flare Patrol										
		10	1308		1317			No Flare Patrol										
		10	1327		1333			No Flare Patrol										
		10	1344		1350			No Flare Patrol										
		10	1352		1722			No Flare Patrol										
		10	1736		1743			No Flare Patrol										
		10	1846		2400			No Flare Patrol										
		11	0000		0432			No Flare Patrol										
0115	LEAR	11	0526	0527	0530	N26	W71	8103	11	5.7	4	SF	3	E	14			
0116		11	0716	0717	0723	N24	W70	8103	11	5.9	7	SF			25			
	LEAR	11	0716	0717	0723	N26	W71	8103	11	5.8	7	SF	3	E	18			
	SVTO	11	0716	0722U	0737D	N21	W70	8103	11	5.9	21D	SF	3	E	32			
0117		11	09551	09551	1002	N29	W36	8106	11	8.6	7	SF			24			
	LEAR	11	0955	0955	1000	N31	W35	8106	11	8.6	5	SF	3	E	23			
	SVTO	11	0956	0956	1003	N27	W36	8106	11	8.6	7	SF	3	E	26			
0118		11	10222	10222	1028	N19	W75	8103	11	5.7	6	SF			32			
	SVTO	11	1022	1022	1024	N18	W76	8103	11	5.6	2	SF	3	E	32			
	KANZ	11	1024	1024	1032	N20	W74	8103	11	5.8	8	SF	2	C				
		11	1045		1050			No Flare Patrol										
		11	1052		1105			No Flare Patrol										
0119	RAMY	11	1139	1141	1146	N22	W74	8103	11	5.8	7	SF	3	E	15		E	
0120	RAMY	11	1209	1213	1221	N22	W75	8103	11	5.7	12	SF	3	E	18		E	
0121	RAMY	11	1253	1258	1300	N21	W76	8103	11	5.7	7	SF	3	E	13		E	
0122	RAMY	11	1310	1319	1347	N22	W77	8103	11	5.6	37	SF	3	E	24		EH	
		11	1858		1903			No Flare Patrol										
		11	1913		1919			No Flare Patrol										
		11	1952		2151			No Flare Patrol										
		12	1019		1117			No Flare Patrol										
		12	1433		1923			No Flare Patrol										
		12	2120		2212			No Flare Patrol										
		13	1003		1049			No Flare Patrol										
0123		13	17421	17442	1800	N30	W66	8106	11	8.5	18	SF			46		H	
	RAMY	13	1742	1744	1754	N29	W65	8106	11	8.6	12	SF	4	E	40		H	
	HOLL	13	1743	1746	1805	N30	W67	8106	11	8.5	22	SF	3	E	51		H	
0124	RAMY	13	1931	1931	1936	N29	W67	8106	11	8.6	5	SF	4	E	11			

H $\alpha$  SOLAR FLARES

9  
NOV 97

NOVEMBER 1997

Grp #	Sta	Start Day	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
							Region	8100							Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
		13 2024		2044	No Flare	Patrol												
		13 2129		2203	No Flare	Patrol												
0125	LEAR	14 0127	0129	0132	N21	E74	8108	11	19.7	5	SF		3	E		40		
0126		14 09384	09385	0947	N16	E71	8108	11	19.8	9	SF					18		F
	LEAR	14 0938	0938	0947	N12	E72	8108	11	19.8	9	SF		3	E		12		
	SVTO	14 0942	0943	0947	N21	E70	8108	11	19.8	5	SF		3	E		23		F
0127	LEAR	14 0954	1007	1021	N14	E75	8108	11	20.1	27	SF		3	E		31		
0128	SVTO	14 1004	1021U	1040D	N19	E76	8108	11	20.2	360	SF		3	E		17		F
0129	RAMY	14 1508	1508	1513	N29	W75	8106	11	8.7	5	SF		4	E		11		
0130	HOLL	14 1517	1518	1522	N16	E70	8108	11	19.9	5	SF		3	E		32		
0131		14 15168	1525	1531	N17	E70	8108	11	19.9	15	SF					56		
	RAMY	14 1516	1525	1531	N18	E70	8108	11	20.0	15	SF		4	E		53		
	HOLL	14 1524	1525	1531	N16	E69	8108	11	19.9	7	SF		3	E		60		
0132	RAMY	14 1913	1914	1918	N16	E68	8108	11	19.9	5	SF		4	E		51		E
0133	HOLL	14 2147	2148	2150	N19	E74	8108	11	20.5	3	SF		3	E		16		
0134	LEAR	15 0133	0136	0145	N19	E64	8108	11	19.9	12	SF		3	E		33		
0135	LEAR	15 0145	0145	0201	N19	E64	8108	11	19.9	16	SF		3	E		59		
0136		15 11553	11562	1200	N30	W82	8106	11	9.0	5	SF					43		F
	RAMY	15 1155	1156	1159	N30	W83	8106	11	9.0	4	SF		3	E		43		F
	KANZ	15 1158	1158	1202	N30	W81	8106	11	9.1	4	SF		2	C				
0137	LEAR	15 2236	2242	2330	N16	E55	8108	11	20.1	54	1N		3	E		188		
0138	HOLL	15 2237	2242	2338	N20	E64	8108	11	20.8	61	1N		3	E		231		
0139	LEAR	16 0123	0130	0134	N18	E56	8108	11	20.3	11	SF		3	E		16		
		16 0929		0942	No Flare	Patrol												
		16 0950		1018	No Flare	Patrol												
		16 1022		1036	No Flare	Patrol												
		16 1043		1051	No Flare	Patrol												
		16 1118		1128	No Flare	Patrol												
		16 1134		1138	No Flare	Patrol												
		16 1150		1226	No Flare	Patrol												
		16 1259		1310	No Flare	Patrol												
		16 1335		2159	No Flare	Patrol												
0140	HOLL	16 2130	2131	2137	N18	E46	8108	11	20.4	7	SF		3	E		13		
0141	HOLL	16 2158	2158	2202	N18	E46	8108	11	20.4	4	SF		3	E		18		
0142	LEAR	17 0022	0023	0027	N15	E42	8108	11	20.2	5	SF		3	E		19		H
0143	LEAR	17 0337	0338	0342	S22	E61	8109	11	21.8	5	SF		3	E		15		
0144	LEAR	17 0606	0607	0612	N16	E43	8108	11	20.5	6	SF		3	E		12		
0145	LEAR	17 0635	0639	0649	N17	E39	8108	11	20.2	14	SF		3	E		14		
0146	LEAR	17 0651	0651	0656	N17	E39	8108	11	20.2	5	SF		3	E		12		
		17 1035		1423	No Flare	Patrol												
0147	HOLL	17 1459	1507	1522	N21	E30	8108	11	19.9	23	SF		3	E		85		F
0148	HOLL	17 2010	2010	2014	N19	E31	8108	11	20.2	4	SF		3	E		17		

10  
Nov 97

H $\alpha$  SOLAR FLARES

NOVEMBER 1997

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0149	HOLL	17	2209	2209	2213	N22	E26	8108	11	19.9	4	SF		3	E		22		F	
0150	HOLL	17	2215	2223	2231	N23	E26	8108	11	19.9	16	SF		3	E		21		F	
0151	LEAR	18	0645	0650	0656	N18	E27	8108	11	20.3	11	SF		3	E		12			
0152		18	08314	08351	0848	N20	E24	8108	11	20.2	17	SF					10			
	KANZ	18	0831	0835	0847	N22	E21	8108	11	20.0	16	SF		2	C					
	LEAR	18	0835	0836	0849	N18	E26	8108	11	20.3	14	SF		3	E		10			
0153	KANZ	18	0939	0939	0939	N19	E22	8108	11	20.1	14	SF		2	C					
0154	KANZ	18	0943	0947	0951	N18	E26	8108	11	20.4	8	SF		2	C					
0155		18	11432	11461	1209	S19	E46	8109	11	22.0	26	SF					23			
	KANZ	18	1143	1147	1155	S19	E47	8109	11	22.1	12	SF		2	C					
	SVTO	18	1145	1146	1223	S19	E46	8109	11	22.0	38	SF		3	E		23			
		18	1452		1456	No Flare Patrol														
		18	2137		2157	No Flare Patrol														
		18	2233		2246	No Flare Patrol														
		18	2313		2340	No Flare Patrol														
		19	1001		1109	No Flare Patrol														
		19	1227		1236	No Flare Patrol														
0156		19	1357	1402	1414	N24	E08	8108	11	20.2	17	SF					24		H	
	RAMY	19	1357	1402	1412	N24	E05	8108	11	20.0	15	SF		4	E		18		H	
	HOLL	19	1402E	1402U	1416	N23	E10	8108	11	20.3	14D	SF		2	E		31		H	
0157	LEAR	20	0021	0023	0032	N20	E09	8108	11	20.7	11	SF		3	E		31			
		20	0427		0438	No Flare Patrol														
0158	KANZ	20	1114	1114	1118	N22	W06	8108	11	20.0	4	SF		2	C					
		20	2027		2048	No Flare Patrol														
		20	2105		2138	No Flare Patrol														
0159	HOLL	20	2210	2212	2230	N21	W08	8108	11	20.3	20	SF		3	E		59		F	
0160	HOLL	20	2309	2311	2318	N21	W09	8108	11	20.3	9	SF		3	E		14			
0161	LEAR	21	0625	0628	0632	N23	W12	8108	11	20.3	7	SF		3	E		26		H	
0162	LEAR	21	0633	0637	0647	N23	W11	8108	11	20.4	14	SF		3	E		19			
0163	LEAR	21	0832	0833	0837	N23	W13	8108	11	20.3	5	SF		3	E		10			
0164	LEAR	21	0954	0954	1002	N23	W14	8108	11	20.3	8	SF		3	E		26			
		21	1025		1124	No Flare Patrol														
0165	RAMY	21	1133E	1133U	1142	N22	W17	8108	11	20.2	9D	SF		3	E		36			
0166	RAMY	21	1248	1328	1336	N22	W17	8108	11	20.2	48	SF		3	E		70		F	
0167	RAMY	21	1528	1528	1534	N21	W19	8108	11	20.2	6	SF		3	E		21			
0168		21	1600	1600	1606	N20	W20	8108	11	20.1	6	SF					30			
	HOLL	21	1552E	1555U	1606	N19	W22	8108	11	20.0	14D	SF		2	E		41			
	RAMY	21	1600	1600	1605	N22	W17	8108	11	20.4	5	SF		3	E		18			
0169	HOLL	21	1620	1623	1627	N22	W18	8108	11	20.3	7	SF		3	E		17			
0170		21	16593	1704	1712	N21	W18	8108	11	20.3	13	SF					42		F	
	HOLL	21	1659	1704	1717	N21	W18	8108	11	20.3	18	SF		3	E		67		F	
	RAMY	21	1702	1704	1708	N21	W19	8108	11	20.2	6	SF		4	E		18		F	
0171	HOLL	21	1755	1758	1803	N22	W19	8108	11	20.3	8	SF		3	E		25			





12  
Nov 97

H $\alpha$  SOLAR FLARES

NOVEMBER 1997

Grp #	Sta	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
							Region	Mo Day						Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
0193	HOLL	26 1754E	1810	1819	N16	E74	8113	12	2.3	25D	SF	2	E	76		F	
0194	HOLL	26 1828	1835	1844	N16	E75	8113	12	2.4	16	SF	3	E	72		F	
0195	HOLL	26 1917	1920	1922	N17	E76	8113	12	2.6	5	SF	3	E	23			
		26 2029		2042	No Flare Patrol												
		26 2050		2111	No Flare Patrol												
0196	HOLL	26 2210	2213	2224	N18	E79	8113	12	2.9	14	SF	3	E	30			
0197	LEAR	27 0115	0115	0119	N19	E75	8113	12	2.8	4	SF	3	E	15			
0198	LEAR	27 0642	0645	0648	N12	E67	8113	12	2.3	6	SF	3	E	18			
0199	KANZ	27 0823	0823	0831	N13	E67	8113	12	2.4	8	SF	2	C				
0200	KANZ	27 1031	1031	1039	N26	E85		12	4.0	8	SF	2	C				
0201		27 13011	1317	1338	N16	E63	8113	12	2.3	37	2B			419		H	
	KANZ	27 1301	1317	1337	N15	E63	8113	12	2.3	36	2B	2	C				
	RAMY	27 1302	1317	1338	N17	E63	8113	12	2.3	36	2B	3	E	419		H	
0202	RAMY	27 1613	1616	1622	N19	E67	8113	12	2.8	9	SF	3	E	10		F	
0203		27 1613*	16233	1633	N18	E68	8113	12	2.8	20	SF			49		F	
	HOLL	27 1613	1626	1639	N18	E70	8113	12	3.0	26	SF	3	E	84			
	RAMY	27 1623	1623	1627	N19	E65	8113	12	2.6	4	SF	3	E	14		F	
		27 1823		1850	No Flare Patrol												
0204		27 19551	19571	2004	N18	E60	8113	12	2.4	9	SF			28			
	RAMY	27 1955	1957	2033D	N20	E62	8113	12	2.6	38D	SF	3	E	21			
	HOLL	27 1956	1958	2004	N15	E59	8113	12	2.3	8	SF	3	E	35			
		27 2050		2156	No Flare Patrol												
0205	LEAR	28 0019	0025	0045	N13	E55	8113	12	2.2	26	1F	3	E	115		F	
0206	LEAR	28 0456	0506	0633	N15	E61	8113	12	2.8	97	2B	3	E	278		F	
		28 1036		1101	No Flare Patrol												
0207		28 1126*	12061	1320	S16	E15	8112	11	29.6	114	1N			90		FU	
	KANZ	28 1126	1206	1326	S16	E12	8112	11	29.4	120	1N	2	C				
	RAMY	28 1136	1207	1315	S15	E18	8112	11	29.8	99	SF	3	E	90		UF	
0208	RAMY	28 1320	1320	1325	S16	E07	8112	11	29.1	5	SF	3	E	11			
0209		28 11542	11581	1210	N24	E62	8113	12	3.3	16	SF			22		F	
	KANZ	28 1154	1158	1210	N24	E64	8113	12	3.4	16	SF	2	C				
	RAMY	28 1156	1159	1209	N23	E60	8113	12	3.1	13	SF	3	E	22		F	
0210	HOLL	28 1513	1514	1520	N19	E54	8113	12	2.7	7	SF	3	E	29			
0211	HOLL	28 1541	1542	1549	N19	E54	8113	12	2.8	8	SF	3	E	13			
0212	HOLL	28 1740	1740	1744	N19	E53	8113	12	2.8	4	SF	3	E	19			
0213	HOLL	28 1750	1752	1808	N19	E53	8113	12	2.8	18	SF	3	E	16			
0214	RAMY	28 1814E	1816U	1856D	N19	E54	8113	12	2.9	42D	SF	2	E	21		F	
0215		28 19208	1933	1951	N20	E51	8113	12	2.7	31	SF			26			
	HOLL	28 1920	1933	1951	N19	E52	8113	12	2.8	31	SF	3	E	42			
	RAMY	28 1928	1931U	1933D	N20	E50	8113	12	2.6	5D	SF	2	E	10			
0216	LEAR	29 0506	0508	0520	N15	E49	8113	12	2.9	14	SF	3	E	38			

NOVEMBER 1997

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
							Region	Mo Day						Time (UT)	Apparent (10-6 Disk)	
0217		29 09221	09291	0950	N18	E47	8113	12	3.0	28	SF			49		
	LEAR	29 0922	0930	0948	N16	E47	8113	12	2.9	26	SF	3	E	60		
	SVTO	29 0923	0929	0953	N19	E47	8113	12	3.0	30	SF	3	E	38		
		29 1044		1050	No Flare Patrol											
0218	HOLL	29 1732	1734	1748	N19	E38	8113	12	2.6	16	SF	3	E	25		
0219	HOLL	29 1931	1934	1950	N15	E33	8113	12	2.3	19	SF	3	E	52		H
0220		29 2016	2017	2021	N20	E38	8113	12	2.7	5	SF			14		
	RAMY	29 2016E	2016U	2020D	N20	E37	8113	12	2.7	4D	SF	2	E	14		
	HOLL	29 2016	2017	2021	N19	E39	8113	12	2.8	5	SF	3	E	15		
0221		29 22321	2242	2358	N17	E38	8113	12	2.8	86	2B			306		
	HOLL	29 2232	2242	2344D	N19	E38	8113	12	2.8	72D	2B	3	E	330		
	LEAR	29 2233	2242	2358	N15	E38	8113	12	2.8	85	2N	3	E	281		
0222	LEAR	30 0333	0334	0339	N17	E38	8113	12	3.0	6	SF	3	E	31		
0223	LEAR	30 0653	0655	0707	N18	E32	8113	12	2.7	14	1F	3	E	108		
0224	LEAR	30 0708	0710	0718	N18	E32	8113	12	2.7	10	SF	3	E	24		
		30 1010		1057	No Flare Patrol											
0225	RAMY	30 1240	1240	1259	N18	E28	8113	12	2.6	19	SF	4	E	15		
0226	RAMY	30 1403	1404	1410	N17	E22	8113	12	2.2	7	SF	4	E	15		
0227	HOLL	30 1834	1834	1840	N16	E20	8113	12	2.3	6	SF	3	E	18		F
0228	HOLL	30 1910	1912	1923	N16	E19	8113	12	2.2	13	SF	3	E	21		F
		30 2032		2226	No Flare Patrol											

"Remarks"

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