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May 03

H α S O L A R F L A R E S

MAY 2003

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
															Time (UT)	Apparent (10-6 Disk)	
0001	KANZ	01	0926	0938	0956	S17	W10	10345	04	30.6	30	SF	2	E			
0002	KANZ	01	1035	1151	1157D	S12	E00	10349	05	1.4	82D	1F	2	E			
0003	SVTO	01	1131	1142	1205	S14	E03	10349	05	1.7	34	SF	3	E		85	F
0004	SVTO	01	1118	1122	1127	S12	E00	10349	05	1.5	9	SF	3	E		10	
0005	KANZ	01	1210U	1243	1314	S12	W01	10349	05	1.4	64U	SF	2	E			
0006		01	1359	1402	1418	S12	W02	10349	05	1.4	19	SF				22	F
	SVTO	01	1359	1402	1406	S12	W01	10349	05	1.5	7	SF	3	E		20	
	HOLL	01	1359	1402	1429	S12	W02	10349	05	1.4	30	SF	3	E		24	F
0007		01	1359*	1411	1424	S12	W02	10349	05	1.4	25	1F				62	F
	KANZ	01	1359	1411	1428	S12	W01	10349	05	1.5	29	1F	2	E			
	SVTO	01	1410	1411	1421	S12	W03	10349	05	1.4	11	SF	3	E		62	F
		01	1633		1655	No Flare Patrol											
0008	HOLL	01	1846	1846	1852	S14	W01	10349	05	1.7	6	SF	3	E		48	F
0009	HOLL	01	1917	1923	1936	S12	W03	10349	05	1.6	19	SF	3	E		56	F
0010	HOLL	01	2157	2158	2218	S12	W06	10349	05	1.5	21	SF	3	E		13	F
0011	LEAR	02	0253	0256	0329	S15	W22	10345	04	30.4	36	SF	3	E		96	F
0012	LEAR	02	0624	0624	0634	N14	W57	10344	04	28.0	10	SF	3	E		23	
0013	HOLL	02	1640	1641	1653	S13	W29	10345	04	30.5	13	SF	3	E		17	
0014	HOLL	02	1807	1807	1840	S17	W30	10345	04	30.5	33	SF	3	E		23	
0015	HOLL	02	1807	1810	1815	S20	W35	10347	04	30.1	8	SF	3	E		15	
0016	HOLL	02	1824	1830	1837	S19	W35	10347	04	30.1	13	SF	3	E		37	F
0017	HOLL	02	1841	1843	1846	S17	W31	10345	04	30.4	5	SF	3	E		11	
		02	2251		2310	No Flare Patrol											
0018		03	14542	1456*	1510	S33	W30	10348	05	1.2	16	SF				12	F
	KANZ	03	1454	1456	1513	S33	W29	10348	05	1.3	19	SF	2	E			
	HOLL	03	1455	1507	1512	S33	W30	10348	05	1.2	17	SF	3	E		13	
	SVTO	03	1456	1458	1505	S32	W32	10348	05	1.1	9	SF	3	E		10	F
0019	HOLL	03	1833	1833	1839	S15	W45	10345	04	30.4	6	SF	3	E		60	F
0020	KANZ	04	0711	0713	0716	S32	W38	10348	05	1.3	5	SF	2	E			
0021	LEAR	04	0810	0810	0816	S14	W35	10349	05	1.7	6	SF	3	E		21	F
0022	HOLL	04	1816	1817	1830	S32	W46	10348	05	1.1	14	SF	3	E		23	
0023	HOLL	04	1857	1857	1908	S34	W36	10348	05	1.9	11	SF	3	E		21	
0024	HOLL	04	1923	1926	1928	S33	W45	10348	05	1.2	5	SF	3	E		14	
0025	HOLL	04	1932	1940	1951	S32	W46	10348	05	1.2	19	SF	3	E		37	
0026	HOLL	04	2135	2135	2153	S32	W47	10348	05	1.2	18	SF	3	E		12	
		04	2245		2333	No Flare Patrol											
0027		05	06271	0629	0633	S15	W48	10349	05	1.6	6	SF				29	
	KANZ	05	0627	0629	0633	S16	W46	10349	05	1.8	6	SF	2	E			
	SVTO	05	0628	0629	0633	S14	W49	10349	05	1.6	5	SF	3	E		29	

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													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0059	HOLL	25	2214	2214	2225	S07	E06	10365	05 26.4	11	SF	3	E		10		F
0060	HOLL	25	2251	2251	2259	S31	E39	10368	05 29.0	8	SF	3	E		16		F
		25	2333		2337	No Flare		Patrol									
		26	0019		0117	No Flare		Patrol									
0061	KANZ	26	0543U	0546	0831	S07	E06	10365	05 26.7	168U	1N	2	E				
0062	LEAR	26	0547	0552	0637	S09	E12	10365	05 27.1	50	1F	3	E		131		F
0063	KANZ	26	1029	1046	1121	S06	E00	10365	05 26.4	52	SF	2	E				
0064	KANZ	26	1123	1129	1152	S07	W01	10365	05 26.4	29	SF	2	E				
0065	KANZ	26	1155	1222U	1222D	S07	W01	10365	05 26.4	27D	SF	2	E				
		26	1202		1214	No Flare		Patrol									
		26	1223		1236	No Flare		Patrol									
		26	1358		1406	No Flare		Patrol									
		26	1441		1732	No Flare		Patrol									
0066	HOLL	26	1734E	1739	1744	S05	W08	10365	05 26.1	10D	1F	3	E		126		F
		26	1748		1810	No Flare		Patrol									
		26	1833		2123	No Flare		Patrol									
		26	2331		2352	No Flare		Patrol									
0067	HOLL	26	2359	2401U	2402	S06	W08	10365	05 26.4	3	SF	3	E		16		F
0068	LEAR	27	0243	0259	0327	S07	W03	10365	05 26.9	44	1F	3	E		125		U
0069	LEAR	27	0340	0341	0412	S07	W13	10365	05 26.2	32	SF	3	E		34		FH
0070		27	0539	06176	0810	S06	W13	10365	05 26.3	151	1F				171		FH
	SVTO	27	0535E	0618U	0820D	S06	W11	10365	05 26.4	165D	1F	3	E		156		F
	LEAR	27	0539	0617	0750	S07	W14	10365	05 26.2	131	1F	3	E		186		HF
	KANZ	27	0544U	0623	0831	S06	W14	10365	05 26.2	167U	1F	2	E				
0071		27	14495	15107	1538	S05	W13	10365	05 26.6	49	SF				118		F
	KANZ	27	1449	1510	1543D	S05	W13	10365	05 26.6	54D	SF	2	E				
	SVTO	27	1454E	1507U	1528	S05	W13	10365	05 26.6	34D	1F	2	E		167		F
	HOLL	27	1454	1517	1548	S06	W12	10365	05 26.7	54	SF	3	E		69		F
		27	2010		2036	No Flare		Patrol									
		27	2051		2057	No Flare		Patrol									
		27	2117		2206	No Flare		Patrol									
		27	2214		2233	No Flare		Patrol									
0072	VORO	27	2258	2305	2359U	S05	E20		05 29.4	61U	2B	3	C	2305	573	6.2	
0073	VORO	27	2302	2305	2329	S12	E11		05 28.8	27	SF	3	C	2305	72	0.8	
0074	HOLL	27	2303	2304	2320	S12	W10	10371	05 27.2	17	SF	3	E		29		
0075		27	2258	24247	2645	S06	W20	10365	05 26.5	227	2B				439		EFHTU
	HOLL	27	2258	2431	2544D	S07	W17	10365	05 26.7	166D	2B	3	E		468		UHT
	LEAR	27	2345E	2424	2645	S06	W24	10365	05 26.2	180D	2B	3	E		410		FE
0076	MITK	28	0025	0029	0042	S08	W22	10365	05 26.4	17	1B		E	0029	3508	3.9	U
0077	HOLL	27	2350	2351	2356	S32	E06	10368	05 28.5	6	SF	3	E		53		
0078	MITK	28	0101	0111	0107	S08	W32	10365	05 25.6	6	1B		E	0107	2352	2.8	F
0079	KANZ	28	0558	0615	0648	S05	W21	10365	05 26.7	50	SF	2	E				
0080	KANZ	28	0943	0957	1004	S06	W23	10365	05 26.7	21	SF	2	E				

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																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0081	SVTO	28	0944	0946	1003	S05	W24	10365	05	26.6	19	SF		3	E		38		F
0082		28	10244	10281	1032	S05	W24	10365	05	26.6	8	SF					16		
	KANZ	28	1024	1028	1032	S06	W24	10365	05	26.6	8	SF		2	E				
	SVTO	28	1028	1029	1032	S04	W25	10365	05	26.6	4	SF		3	E		16		
0083		28	12351	12372	1243	S04	W26	10365	05	26.6	8	SF					20		
	KANZ	28	1235	1239	1243	S05	W26	10365	05	26.6	8	SF		2	E				
	SVTO	28	1236	1237	1243	S04	W27	10365	05	26.5	7	SF		3	E		20		
0084		28	1319	1320	1326	S04	W26	10365	05	26.6	7	SF					19		
	KANZ	28	1319	1320	1322D	S05	W26	10365	05	26.6	3D	SF		2	E				
	HOLL	28	1319	1320	1326	S02	W26	10365	05	26.6	7	SF		3	E		19		
0085		28	1334*	14231	1436	S03	W26	10365	05	26.6	62	SF					50		F
	HOLL	28	1334	1424	1446	S01	W26	10365	05	26.6	72	SF		3	E		71		
	SVTO	28	1423	1423	1427	S05	W27	10365	05	26.6	4	SF		3	E		30		F
0086		28	1448*	15452	1610	S03	W28	10365	05	26.5	82	SF					50		
	HOLL	28	1448	1547	1629	S01	W27	10365	05	26.6	101	SF		3	E		81		
	SVTO	28	1544	1545	1550	S05	W29	10365	05	26.5	6	SF		3	E		19		
0087	HOLL	28	1636	1639	1645	S07	W33	10365	05	26.2	9	SF		3	E		15		
0088	HOLL	28	1722	1845	2001	N00	W28	10365	05	26.6	159	1F		3	E		170		F
0089	HOLL	28	2008	2015	2038	S07	W35	10365	05	26.2	30	SF		3	E		55		
0090	HOLL	28	2030	2030	2036	S28	E00	10368	05	28.8	6	SF		3	E		18		
0091	HOLL	28	2042	2050	2059	N00	W29	10365	05	26.7	17	SF		3	E		51		F
0092	HOLL	28	2052	2057	2108	N11	E73	10373	06	3.4	16	SF		3	E		25		F
0093	HOLL	28	2102	2131	2135	S01	W28	10365	05	26.8	33	SF		3	E		18		
0094	HOLL	28	2109	2111	2117	N07	E58	10373	06	2.2	8	SF		3	E		18		
0095	HOLL	28	2118	2119	2124	N07	E58	10373	06	2.2	6	SF		3	E		13		
0096	HOLL	28	2205	2206	2211	S07	W36	10365	05	26.2	6	SF		3	E		58		
0097	HOLL	29	0020	0022	0030	S07	W37	10365	05	26.2	10	SF		3	E		40		
0098	LEAR	29	0020	0105	0223	S06	W37	10365	05	26.2	123	2B		4	E		548		FU
0099	HOLL	29	0035	0107	0157D	S07	W38	10365	05	26.2	82D	2B		3	E		423		
0100	LEAR	29	0210	0217	0239	S37	E03	10368	05	29.3	29	1F		4	E		109		EF
0101	HOLL	29	1932	1939	2007	S35	W13	10368	05	28.8	35	1N		3	E		194		HU
0102	HOLL	30	0045	0046	0057	S36	W17	10368	05	28.7	12	SF		3	E		64		F
0103	LEAR	30	0128	0130	0138	S06	W51	10365	05	26.2	10	SF		3	E		46		F
0104	LEAR	30	0327	0327	0343	S07	W55	10365	05	26.0	16	SF		3	E		18		F
0105	LEAR	30	0552	0552	0606	S05	W54	10365	05	26.2	14	SF		3	E		27		F
0106		30	0642	0650	0712	S05	W51	10365	05	26.5	30	1N					84		F
	LEAR	30	0642	0650	0715	S05	W55	10365	05	26.2	33	1N		3	E		113		F
	SVTO	30	0653E	0653U	0707	S04	W50	10365	05	26.5	14D	1F		3	E		54		
	KANZ	30	0653U	0653U	0714	S05	W49	10365	05	26.6	21U	SN		2	E				
0107		30	08521	08582	0938	N08	E51	10373	06	3.2	46	SF					76		F
	LEAR	30	0852	0858	0858D	N08	E55	10373	06	3.5	6D	SF		3	E		89		
	KANZ	30	0852	0859	0946	N10	E50	10373	06	3.1	54	SN		2	E				
	SVTO	30	0853	0900	0929	N06	E47	10373	06	2.9	36	SF		3	E		63		F

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															Time (UT)	Apparent (10-6 Disk)	
0108	KANZ	30	0903	0919	0954	S06	W50	10365	05	26.6	51	SF	2	E			
0109	KANZ	30	1039	1044	1108	S26	W25	10368	05	28.5	29	SF	2	E			
0110	HOLL	30	1450	1452	1458	S07	W59	10365	05	26.2	8	SF	3	E		12	
0111	HOLL	30	1719	1726	1748	S02	W54	10365	05	26.7	29	SF	3	E		70	F
0112	HOLL	30	1931	1931	1934	S02	W54	10365	05	26.8	3	SF	3	E		19	
			30 1940		2003	No Flare	Patrol										
			30 2040		2305	No Flare	Patrol										
0113	LEAR	31	0024	0027	0041	N07	E30	10373	06	2.3	17	SF	3	E		30	
0114	LEAR	31	0218	0223	0338	S07	W65	10365	05	26.2	80	2B	4	E		512	U
0115	HOLL	31	1407	1408	1424	S05	W72	10365	05	26.2	17	SF	3	E		19	
0116	HOLL	31	1529	1529	1540	S07	W73	10365	05	26.2	11	SF	3	E		28	
			31 2015		2031	No Flare	Patrol										
			31 2039		2159	No Flare	Patrol										
0117	HOLL	31	2321	2323	2326	S03	W73	10365	05	26.5	5	SF	3	E		23	F

"Remarks"

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

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