

H - ALPHA SOLAR FLARES

51  
Sep 84

SEPTEMBER 1984

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks	
																Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0001	PEKG	01	0110E	0110	0114	S09	W16	4567	08	30.9	4D	SF		P	0110	29	.3	E	
0002	LEAR	01	0229	0229	0248	S07	W17	4567	08	30.9	19	SF	3	C		22			
0003		01	0810	0810	0821	S08	W19	4567	08	31.0	11	SN	C 1.0			74	.7	EF	
	KANZ	01	0810	0810	0814	S08	W19	4567	08	31.0	4	SN		2				E	
	LEAR	01	0810	0810	0830	S07	W19	4567	08	31.0	20	SN	C 1.0	3	C	83		F	
	BUCA	01	0810	0811	0819	S08	W20	4567	08	30.9	9	SN		C	0811	64	.7	E	
0004	PEKG	02	0001E	0001	0004D	S05	W30	4567	08	30.8	3D	SF		P	0001	42	.5	D	
0005	PEKG	02	0331E	0331	0335	S05	W32	4567	08	30.8	4D	SN		P	0331	42	.5	D	
0006	LEAR	02	0439	0439	0445	N02	E55	4573	09	6.3	6	SF	3	C		15			
0007	CATA	02	0630	0630	0700	S05	W36	4567	08	30.7	30	S	2	C	0630	28	.4		
0008		02	07223	07243	0736	S06	W36	4567	08	30.7	14	SN				47	.6	D	
	KANZ	02	0722	0726	0730	S06	W37	4567	08	30.6	8	SB		2					
	WEND	02	0723	0724	0734	S06	W36	4567	08	30.7	11	SF		C	0724	31	.4		
	LEAR	02	0724	0725	0729	S05	W37	4567	08	30.6	5	SN	3	C		40			
	BUCA	02	0725	0727	0750	S05	W37	4567	08	30.6	25	SN		C	0727	86	1.1	D	
	ATHN	02	0726E	0727	0730D	S07	W33	4567	08	30.9	4D	SN	3	V	0727	32	.4		
0009	ABST	02	0842E	0843	0850	S04	W35	4567	08	30.8	8D	SN		P	0843	87	1.1	D	
0010		02	1003*	1011*	1048	S07	W35	4567	08	30.9	45	1N	C 8.5			200	2.6	F	
	KANZ	02	1003	1011	1051	S07	W33	4567	08	31.0	48	1N		2					
	WEND	02	1004	1031	1053	S07	W34	4567	08	31.0	49	1N		C	1031	200	2.5		
	ATHN	02	1010E	1012	1044	S07	W33	4567	08	31.0	34D	1B	C 8.5	2	V	1012	207	2.6	
	CATA	02	1015E	1015	1140D	S08	W34	4567	08	31.0	85D	1		2	P	1015	337	4.4	
	KANZ	02	1031	1031	1035	S05	W39	4567	08	30.6	4	SB		2					
	CATA	02	1035	1040	1045	S06	W38	4567	08	30.7	10	S		2	C	1040	56	.8	
	RAMY	02	1041E		1103	S07	W34	4567	08	31.0	22D	SF	3	C				F	
0011	RAMY	02	1113	1120	1132	S09	W32	4567	08	31.1	19	SF	3	C		21			
0012	RAMY	02	1249	1249	1308	N02	E50	4573	09	6.3	19	SF	3	C		19		F	
0013	HOLL	02	2216	2216	2219	S11	W04	4572	09	2.6	3	SF	3	C		23			
0014		02	2254	23022	2313	S12	W04	4572	09	2.6	19	SF				30	.3	D	
	HOLL	02	2254	2302	2313	S12	W04	4572	09	2.6	19	SF	3	C		36			
	PEKG	02	2304E	2304	2304D	S12	W05	4572	09	2.6	19D	SF		P	2304	25	.3	D	
0015		02	23444	23482	2352	S09	W41	4567	08	31.0	8	SN				36	.6	DF	
	VORO	02	2344	2348	2350	S08	W42	4567	08	30.9	6	SN		C	2348	45	.6	D	
	HOLL	02	2346	2350	2353	S09	W41	4567	08	31.0	7	SN	3	C		28		F	
	LEAR	02	2348	2349	2353	S09	W41	4567	08	31.0	5	SF	3	C		34			
0016	URUM	03	0204E	0205	0209	S12	W04	4572	09	2.8	5D	SN		P		39	.4	FT	
0017	URUM	03	0204E	0205	0209	S06	W44	4567	08	30.9	5D	SN		P		63	.9	T	
0018	URUM	03	0229	0234	0239	S12	W05	4572	09	2.7	10	SN		C		31	.3	T	
0019	URUM	03	0319	0329	0329D	S12	W07	4572	09	2.6	10D	SN		P		16	.2	DT	
0020		03	03498	03583	0403	S12	W08	4572	09	2.5	14	SF				61	.4	BDEGT	
	URUM	03	0349	0359	0404	S12	W07	4572	09	2.6	15	SN		C		31	.3	GT	
	LEAR	03	0357	0358	0402	S11	W08	4572	09	2.6	5	SF	3	C		30			
	ABST	03	0358E	0358	0404D	S11	W08	4572	09	2.6	6D	1F		P	0358	148		BE	
	PEKG	03	0401E	0401	0404	S13	W08	4572	09	2.6	3D	SF		C	0401	34	.4	D	
0021	URUM	03	0529	0534	0549	S12	W06	4572	09	2.8	20	SN		C		31	.3	FGT	
0022		03	07143	07152	0721	S08	W46	4567	08	30.9	7	SF				28			
	LEAR	03	0714	0715	0722	S08	W46	4567	08	30.9	8	SF	3	C		28			
	KANZ	03	0717	0717	0720	S07	W46	4567	08	30.9	3	SF	2						

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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	Time (UT)	Area Measurement		Remarks					
						Lat	Region								Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)						
0023		03	0744	0748	0803	S12	W10	4572	09	2.6	19	SF				46						
	KANZ	03	0744	0748	0803	S12	W10	4572	09	2.6	19	SF										
	LEAR	03	0745	0749	0803	S11	W09	4572	09	2.6	18	SF					46					
0024	LEAR	03	0808	0809	0820	S07	W47	4567	08	30.9	12	SF					20					
0025		03	0823	0825	0836	S12	W45	4574	08	31.0	13	SF					32	.5	DEL			
	LEAR	03	0823	0826	0832	S12	W45	4574	08	31.0	9	SF					29					
	CATA	03	0825	0825	0845	S12	W45	4574	08	31.0	20	S		0825			56	.9				
	KANZ	03	0826	0829	0833	S11	W45	4574	08	31.0	7	SF										
	PEKG	03	0826E	0829	0836	S12	W45	4574	08	31.0	10D	SF		0829			21	.3	E			
	KHAR	03	0827E	0828	0832D	S12	W46	4574	08	31.0	5D	SF		0828			20	.3	DL			
0026		03	0826	0828*	0906	S12	W11	4572	09	2.5	40	SN					33	.4	DEG HK			
	LEAR	03	0826	0828	0915	S11	W10	4572	09	2.6	49	SF					26		K			
	KANZ	03	0826	0833	0910	S11	W10	4572	09	2.6	44	SN										
	LEAR	03	0826	0904	0915	S11	W10	4572	09	2.6	49	SF								K		
	PEKG	03	0828E	0828	0845	S12	W10	4572	09	2.6	17D	SF		0828			34	.4	E			
	KHAR	03	0832E	0837	0850D	S12	W12	4572	09	2.4	18D	SN		0837			40	.5	DG			
	KHAR	03	0903E		0923D	S12	W12	4572	09	2.5	20D	SN		0903					DGH			
0027		03	0921	0925	0934	N05	E24	4569	09	5.2	13	SF					17	.2	EG			
	KANZ	03	0921	0925	0932	N05	E23	4569	09	5.1	11	SF							G			
	PEKG	03	0921	0926	0936	N05	E24	4569	09	5.2	15	SF		0926			17	.2	E			
0028	URUM	03	1029	1034	1039	S06	W48	4567	08	30.9	10	SF					31	.5	DT			
0029		03	1044	1049	1054	S12	W12	4572	09	2.5	10	SN					16	.2	DGLT			
	KHAR	03	1012E		1042D	S12	W13	4572	09	2.4	30D	SF		1017					DGL			
	URUM	03	1044	1049	1054	S11	W11	4572	09	2.6	10	SN					16	.2	DGT			
0030	HOLL	03	1822	1829	1839	S11	W17	4572	09	2.5	17	SF					39		F			
0031	HOLL	03	1851	1904	1907	S11	W16	4572	09	2.6	16	SF					25		F			
0032	HOLL	03	2040	2040	2045	S12	W16	4572	09	2.6	5	SF					24					
0033	VORO	03	2152	2157	2204	S06	W60	4567	08	30.5	12	SN			2157			63	1.2	EHJT		
0034		04	0001*	0024*	0048	S07	W59	4567	08	30.7	47	SF					60	1.6	DEFHJKT			
	VORO	04	0001	0106	0125	S09	W57	4567	08	30.8	84	1F		0006			108	2.1	EJT			
	VORO	04	0018	0024	0033	S06	W60	4567	08	30.6	15	SN		0027			90	1.8	EJTKH			
	LEAR	04	0024	0024	0027	S07	W60	4567	08	30.6	3	SF								27		
	HOLL	04	0024	0024	0027	S05	W60	4567	08	30.6	3	SF									18	
	PEKG	04	0025E	0025	0030	S07	W60	4567	08	30.6	5D	SF			0025			42	.9	FH		
	VORO	04	0120	0122	0127	S08	W59	4567	08	30.7	7	SN			0122			72	1.4	DJT		
0035	VORO	04	0227	0234	0247	S06	W60	4567	08	30.7	20	SF			0234			45	.9	DJT		
0036	URUM	04	0337	0347	0357	S07	W59	4567	08	30.8	20	SN					47	1.0	ET			
0037		04	0419	0419*	0448	S08	W59	4567	08	30.8	29	SN					73	1.8	EFTV			
	LEAR	04	0419	0419	0424	S08	W59	4567	08	30.8	5	SF								18		
	LEAR	04	0425	0430	0457	S08	W59	4567	08	30.9	32	SF									61	
	MITK	04	0425	0436	0456	S07	W58	4567	08	30.9	31	1N										31
	ABST	04	0427	0428	0441D	S07	W57	4567	08	31.0	14D	1F			0436			100	2.1	F		
	PEKG	04	0427	0431	0443D	S09	W59	4567	08	30.8	16D	SN			0428			105	2.1	FV		
	URUM	04	0447E	0452	0457	S08	W60	4567	08	30.8	10D	SN			0431			92	1.9	E		
																					63	
0038	URUM	04	0532	0537	0542	S07	W60	4567	08	30.8	10	SN					79	1.7	FT			
0039	KHAR	04	0800E		0813D	S17	W56	4574	08	31.1	13D	SF			0800			60	1.3	DH		
0040		04	0814	0813	0824	S06	W65	4567	08	30.6	10	SN					66	1.4	DH			
	KHAR	04	0812E	0813	0818D	S06	W66	4567	08	30.5	6D	SF			0813			100		D		
	LEAR	04	0814		0818	S06	W65	4567	08	30.6	4	SN										40
	CATA	04	0815	0815	0825	S07	W65	4567	08	30.6	10	S			0815			68		H		
	ATHN	04	0815E	0816	0825	S05	W64	4567	08	30.6	10D	SF			0816			80	1.9			
	BUCA	04	0815	0816	0830	S05	W65	4567	08	30.6	15	SN			0815			43	1.0	D		



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																	Apparent (10 <sup>-6</sup> Disk)	Corr (Sq Deg)		
0065		06	2151*	22113	2241	N12	W66	4575	09	1.9	50	SF						48		F
	HOLL	06	2151	2211	2259	N13	W66	4575	09	1.9	68	SF		3	C			62		
	PALE	06	2207	2214	2223	N11	W66	4575	09	1.9	16	SF		3	C			34		F
0066		06	2231	22312	2238	S12	W53	4572	09	2.9	7	SF						28		F
	PALE	06	2231	2231	2239	S12	W52	4572	09	3.0	8	SF		3	C			30		F
	HOLL	06	2231	2233	2238	S11	W54	4572	09	2.9	7	SF		3	C			26		F
0067		06	2301*	24537	2516	N12	W67	4575	09	1.9	135	SN						34		DGT
	HOLL	06	2301	2453	2505D	N13	W68	4575	09	1.8	124D	SN		3	C			54		
	LEAR	07	0057	0100	0110	N11	W66	4575	09	2.1	13	SF		3	C			31		
	URUM	07	0116E	0116U	0122	N12	W68	4575	09	1.9	6D	SN			P	0116		16		DGT
0068		07	0201*	0206*	0221	N11	W72	4575	09	1.7	20	SN						28		FGT
	URUM	07	0201	0206	0221	N11	W71	4575	09	1.7	20	SN			C			16		GT
	URUM	07	0226	0231	0231D	N11	W72	4575	09	1.7	5D	SN			P			39		FGT
0069	URUM	07	0304E	0304U	0324	N13	W75	4575	09	1.5	20D	SN			P	0304		31		FGT
0070		07	0734	07354	0742	N02	W15	4573	09	6.2	8	SN						44	.7	FGT
	LEAR	07	0734	0735	0743	N02	W15	4573	09	6.2	9	SF		3	C			25		F
	URUM	07	0734	0739	0741	N02	W15	4573	09	6.2	7	SN			C			63	.7	GT
0071	BUCA	07	0735	0755	0855	N12	W72	4575	09	1.9	80	IN			P	0755		107		
0072	URUM	07	0924	0929	0939	N13	W72	4575	09	1.9	15	SN			C			31		GT
0073	HTPR	07	1315E		1325	N11	W72	4575	09	2.1	10D	SF			C	1323		10		
0074	HTPR	07	1320	1332	1335	S04	E60	4576	09	12.0	15	SF			C	1332		10	.2	
0075		07	23581	23592	2404	S04	E54	4576	09	12.0	6	SF						19		
	LEAR	07	2358	2401	2404	S03	E53	4576	09	11.9	6	SF		3	C			25		
	HOLL	07	2359	2359	2403	S04	E54	4576	09	12.0	4	SF		3	C			13		
0076	HTPR	08	0619	0620	0630	S04	E61	4576	09	12.8	11	SN			C	0620		20	.4	
0077	KHAR	08	0700E		0717D	N13	W90	4575	09	1.5	17D	SF			V	0700				DH
0078		08	07138	0713*	0725	S05	E50	4576	09	12.0	12	SF						27	.4	D
	LEAR	08	0713	0713	0718	S04	E49	4576	09	12.0	5	SF		3	C			23		
	HTPR	08	0713	0723	0730	S04	E51	4576	09	12.1	17	SF			C	0723		20	.4	
	KHAR	08	0721E	0722	0727D	S07	E49	4576	09	12.0	6D	SF			V	0722				D
	LEAR	08	0721	0722	0728	S04	E49	4576	09	12.0	7	SF		3	C			39		
0079		08	0827	08301	0848	N12	W88	4575	09	1.7	21	SF						10		D
	HTPR	08	0827	0831	0848	N11	W90	4575	09	1.6	21	SF			C	0831		10		
	KHAR	08	0830E	0830	0833D	N14	W87	4575	09	1.8	3D	SF			V	0830				D
0080	HTPR	08	0852	0858	0900	S04	E60	4576	09	12.8	8	SF			C	0858		20	.4	
0081	HTPR	08	0858	0904	0909	N11	W90	4575	09	1.6	11	SF			C	0904		10		
0082		08	0939	09442	0950	S06	E48	4576	09	12.0	11	SF						10	.2	DE
	HTPR	08	0939	0946	0950	S04	E49	4576	09	12.1	11	SF			C	0946		10	.2	E
	KHAR	08	0942E	0944	0955D	S07	E48	4576	09	12.0	13D	SF			V	0944				D
0083	HTPR	08	1005	1008	1028	N11	W90	4575	09	1.6	23	SF			C	1008		10		
0084	HTPR	08	1153	1202	1209	S04	E58	4576	09	12.8	16	SF			C	1202		10	.2	E
0085		08	13101	13131	1337	S04	E47	4576	09	12.1	27	SN						34	.4	E
	RAMY	08	1310	1313	1334	S03	E47	4576	09	12.1	24	SN		3	C			47		
	HTPR	08	1311	1314	1340	S04	E47	4576	09	12.1	29	SF			C	1314		20	.4	E
0086	PALE	08	2018	2020	2023	S03	E44	4576	09	12.1	5	SF		3	C			29		
		10	1551		1610	No Flare Patrol														



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								USAF Region					Mo	Day		Time (UT)	Apparent (10 <sup>-6</sup> Disk)
0095	CULG	27	0509	0511	0516	S11	W09		09	26.5	7	SF	C	0511	30	.3	
		29	0512		0519												No Flare Patrol
		29	1605		1616												No Flare Patrol
		29	1659		1703												No Flare Patrol
		29	1830		1834												No Flare Patrol
		29	1853		1857												No Flare Patrol
		29	1915		1929												No Flare Patrol
		29	1934		1954												No Flare Patrol
		30	1620		1713												No Flare Patrol
		30	1718		1725												No Flare Patrol

"Remarks":

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| <p>A = Eruptive prominence whose base is less than 90° 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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