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Mar 86

H - ALPHA SOLAR FLARES

MARCH 1986

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)	
0001	PALE	01	0142	0144	0145	S01	E80	4717	03	7.0	3	SF		3	C		12		
0002	LEAR	01	0450	0451	0456	N05	E80	4717	03	7.2	6	SF		3	C		24		
0003	LEAR	01	0640	0642	0650	N03	E78	4717	03	7.1	10	SN		3	C		29		
0004	LEAR	01	0703	0704	0709	N02	E79	4717	03	7.2	6	SF		3	C		24		
0005	LEAR	01	0756	0757	0800	N03	E76	4717	03	7.0	4	SF		3	C		16		
		01	0901		1349	No Flare Patrol													
0006	HOLL	01	1531	1532	1536	S01	E70	4717	03	6.9	5	SF		3	C		17		
0007	HOLL	01	1549	1553	1640	N02	E71	4717	03	7.0	51	SN	C 1.7	4	C		50		F
0008	PALE	01	1857E		1915	N00	E69	4717	03	6.9	18D	SF		2	C		15		F
0009	PALE	01	2004		2011	S01	E70	4717	03	7.1	7	SF		2	C		26		
0010	HOLL	01	2157	2158	2220	N01	E67	4717	03	6.9	23	SF		4	C		16		F
0011	HOLL	01	2222	2235	2306	N01	E68	4717	03	7.0	44	SF		4	C		29		F
0012		02	0542	0604U	0559	S02	E64	4717	03	7.0	17	SF	C 3.1				94		E
	LEAR	02	0542		0559	N01	E64	4717	03	7.0	17	SF	C 3.1	2	C		101		
	ABST	02	0600E	0604U	0611D	S04	E63	4717	03	6.9	11D	SF			P	0604	87		E
		02	1131		1321	No Flare Patrol													
		02	1342		1419	No Flare Patrol													
0013	HOLL	02	1509	1509	1518	N02	E57	4717	03	6.9	9	SF		3	C		16		
0014	HOLL	02	1743	1743	1749	S01	E59	4717	03	7.1	6	SF		3	C		36		F
		02	1821		1822	No Flare Patrol													
0015	PALE	02	1950	1953	2014	S01	E57	4717	03	7.1	24	SF		3	C		65		E
		02	2036		2041	No Flare Patrol													
0016		02	20439	20512	2100	S00	E56	4717	03	7.0	17	SN	C 4.3				74		FH
	HOLL	02	2043	2051	2103	S01	E58	4717	03	7.2	20	SN	C 4.3	3	C		63		F
	PALE	02	2052	2053	2057	N00	E54	4717	03	6.9	5	SN	C 4.3	3	C		84		FH
		02	2104		2131	No Flare Patrol													
		02	2139		2143	No Flare Patrol													
0017		03	05001	0502	0510	S00	E52	4717	03	7.1	10	1N	C 7.5				210	4.0	F
	LEAR	03	0500	0501U	0512	N01	E52	4717	03	7.1	12	1B	C 7.5	3	C		185		F
	PURP	03	0501	0502	0508	S02	E52	4717	03	7.1	7	1F	C 7.5		C	0502	234	4.0	
0018		03	1255	12551	1310	S03	E46	4717	03	7.0	15	1B			C		212	3.2	D
	LVOV	03	1253E	1256	1304D	S03	E46	4717	03	7.0	11D	1N			C	1256	200	3.0	D
	CATA	03	1255	1255	1310	S03	E45	4717	03	6.9	15	1B		2	C	1255	225	3.3	
		03	1321		1400	No Flare Patrol													
		03	1404		1411	No Flare Patrol													
0019	HOLL	03	1422	1425	1434D	N02	E48	4717	03	7.2	12D	1N		3	C		194		F
		03	1435		1512	No Flare Patrol													
		03	1529		1544	No Flare Patrol													
		03	1615		1623	No Flare Patrol													
		03	1824		1851	No Flare Patrol													
		03	2006		2033	No Flare Patrol													
0020	PALE	03	2035	2035	2050	S02	E42	4717	03	7.0	15	SF		3	C		23		H

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			03 2121		2249			No Flare Patrol											
0021	LEAR	03	2338	2338	2348	N00	E41	4717	03	7.0	10	SF		3	C		29		
0022	LEAR	04	0447	0448	0451	N01	E38	4717	03	7.0	4	SF		3	C		53		F
0023	TACH	04	0554E		0601D	S02	E37	4717	03	7.0	7D	SN			C	0554	88	1.1	D
0024		04	0720	0723	0726	S00	E36	4717	03	7.0	6	SF					56	1.0	EF
	LEAR	04	0720	0723	0726	N01	E36	4717	03	7.0	6	SF		3	C		31		F
	HTPR	04	0723E		0723D	S02	E35	4717	03	6.9	6D	SF			C	0723	80	1.0	E
0025		04	09486	09538	1018	S00	E32	4717	03	6.8	30	SF					30	.3	DL
	KHAR	04	0945E	0952U	0956D	N02	E31	4717	03	6.7	11D	SF			V	0952			DL
	HTPR	04	0948	0953	0956	N02	E30	4717	03	6.6	8	SF			C	0953	40	.4	
	HTPR	04	0954	1001	1040	S03	E34	4717	03	6.9	46	SF			C	1001	20	.2	
	KHAR	04	0955E		1028D	S02	E34	4717	03	6.9	33D	SF			V	1013			DL
0026	HTPR	04	0945	0948	1002	N03	W30	4718	03	2.2	17	SF			C	0948	20	.2	E
			04 1703		1723			No Flare Patrol											
			04 1741		1747			No Flare Patrol											
0027	HOLL	04	1930	1936	2007	N01	E28	4717	03	6.9	37	SF		3	C		28		FU
0028	PALE	04	2251	2307	2321	N01	E30	4717	03	7.2	30	SF			C		31		H
0029	LEAR	05	0427	0429	0500	N04	E24	4717	03	7.0	33	SN	C 1.2	3	C		113		F
0030		05	07037	0708*	0807	N03	E24	4717	03	7.1	64	1N					213	2.0	EFIL
	LEAR	05	0703	0708	0759	N04	E26	4717	03	7.2	56	1B		3	C		375		F
	ABST	05	0706	0708	0804	S00	E21	4717	03	6.9	58	1B			C	0708	183	2.1	E
	ABST	05	0707	0719	0804	N05	E27	4717	03	7.3	57	SN			C	0719	96	1.1	E
	PEKG	05	0710	0726	0810	N01	E23	4717	03	7.0	60	1N			C		294	3.4	E
	HTPR	05	0800E		0820	N04	E25	4717	03	7.2	20D	SN			C	0803	120	1.2	EIL
0031	HTPR	05	0939	0940	0950	N01	E19	4717	03	6.8	11	SN			C	0940	30	.3	E
0032	HTPR	05	1400	1402	1415	N02	E20	4717	03	7.1	15	SB			C	1402	30	.3	E
0033	HOLL	05	1948	1952	1958	N00	E14	4717	03	6.9	10	SF		3	C		48		F
			05 2040		2121			No Flare Patrol											
0034	PURP	06	0051	0053	0057	N00	E15	4717	03	7.1	6	SF			C	0053	68	.7	E
0035	PURP	06	0246	0247	0305	N01	E15	4717	03	7.2	19	SF			C	0247	44	.5	E
0036		06	0415	04203	0431	N00	E09	4717	03	6.8	16	1N					341	3.6	E
	PEKG	06	0415	0423	0430	N01	E09	4717	03	6.8	15	2N			C		505	5.4	E
	PURP	06	0420E	0420	0430	S01	E09	4717	03	6.8	10D	1N			C	0420	318	3.3	
	MITK	06	0420E	0421	0432	N01	E08	4717	03	6.8	12D	1N			C	0421	200	2.1	E
0037		06	0432	0437	0445	N02	E12	4717	03	7.1	13	2N					758	8.2	BE
	PEKG	06	0432	0437	0445	N01	E12	4717	03	7.1	13	1N			C		368	4.1	E
	TACH	06	0513E		0621D	N03	E13	4717	03	7.2	68D	2F			C	0513	1149	12.3	BE
			06 0623		0628			No Flare Patrol											
0038		06	0900*	09037	0914	N02	E11	4717	03	7.2	14	SB					76	.8	
	ATHN	06	0900	0903	0912	N02	E11	4717	03	7.2	12	SB		3	V	0903	95	1.0	
	CATA	06	0910	0910	0915	N02	E11	4717	03	7.2	5	SB		2	C	0910	56	.6	
			06 1016		1107			No Flare Patrol											
			06 1335		1353			No Flare Patrol											
0039	HOLL	06	1637	1702	1757	N02	E01	4717	03	6.8	80	1F	C 4.6	4	C		287		FU

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)			
0040	HOLL	07	0004	0006	0014	N00	W03	4717	03	6.8	10	SN	C	2.0	3	C		27	F		
0041	PALE	07	0129	0130	0132	S04	W01	4717	03	7.0	3	SN			2	C		36	F		
0042		07	01593	02033	0213	S01	W04	4717	03	6.8	14	SN	C	4.1				181	2.2	DFHK	
	VORO	07	0159	0203	0215	S00	W04	4717	03	6.8	16	SN				C	0203	179	1.8	DH	
	PALE	07	0200	0203	0217D	S01	W04	4717	03	6.8	17D	SB	C	4.1	3	C		183		FHK	
	PEKG	07	0200	0205	0212	S01	W03	4717	03	6.8	12	1N				C		252	2.6	D	
	PALE	07	0200	0206	0217D	S01	W04	4717	03	6.8	17D	SB			3	C		109		K	
	MITK	07	0202	0203	0212	S01	W04	4717	03	6.8	10	SN				C	0203			DH	
0043	ATHN	07	0943	0945	0948	S02	W09	4717	03	6.7	5	SF			3	C	0945	19	.2		
0044	ATHN	07	1253E	1255U	1303	S03	W12	4717	03	6.6	10D	SN			3	C	1255	48	.5		
		07	1436		1446	No Flare Patrol															
		07	1622		1745	No Flare Patrol															
		07	1901		1922	No Flare Patrol															
		07	1929		1936	No Flare Patrol															
		07	1946		2015	No Flare Patrol															
0045	HOLL	07	2355	2355	2358	S01	W10	4717	03	7.2	3	SF			3	C		26			
		08	1454		1500	No Flare Patrol															
0046		09	0112	0112	0122	N02	W24	4717	03	7.2	10	SF						22		FH	
	PALE	09	0112	0112	0121	N02	W25	4717	03	7.2	9	SF			3	C		21		F	
	LEAR	09	0112	0112	0123	N03	W24	4717	03	7.2	11	SF			3	C		24		FH	
0047	KHAR	09	0957E		1015D	N05	W30	4717	03	7.2	18D	SF				V	1000			D	
		09	1146		1204	No Flare Patrol															
		09	1400		1411	No Flare Patrol															
		09	2205		2254	No Flare Patrol															
		10	1003		1043	No Flare Patrol															
		10	1102		1111	No Flare Patrol															
		10	1121		1144	No Flare Patrol															
		10	1205		1216	No Flare Patrol															
0048	RAMY	10	1412	1413	1431	N00	W44	4717	03	7.3	19	SN			3	C		29		F	
		10	1439		1500	No Flare Patrol															
		10	1715		1721	No Flare Patrol															
		11	0507		0514	No Flare Patrol															
		11	1212		1215	No Flare Patrol															
		11	1421		1438	No Flare Patrol															
		11	1922		2016	No Flare Patrol															
		11	2235		2305	No Flare Patrol															
		11	2327		2341	No Flare Patrol															
0049	ATHN	12	0835	0840	0850	N03	W65	4717	03	7.5	15	SN			3	C	0840	19	.4		
		13	1511		1519	No Flare Patrol															
		13	1544		1555	No Flare Patrol															
		14	0851		0854	No Flare Patrol															
		14	1016		1028	No Flare Patrol															
		14	1034		1039	No Flare Patrol															
		14	1051		1136	No Flare Patrol															
		14	1424		1433	No Flare Patrol															
		14	2123		2400	No Flare Patrol															
		15	0000		0009	No Flare Patrol															
		15	0027		0111	No Flare Patrol															
		15	0230		0231	No Flare Patrol															
		15	1526		1532	No Flare Patrol															
		15	1918		2053	No Flare Patrol															
		15	2130		2140	No Flare Patrol															
		15	2225		2236	No Flare Patrol															
		15	2241		2335	No Flare Patrol															

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																	Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
			16 1849		2233			No Flare	Patrol										
			17 1708		1709			No Flare	Patrol										
			17 1717		1731			No Flare	Patrol										
			17 1803		1857			No Flare	Patrol										
			17 1934		1944			No Flare	Patrol										
			17 1956		2003			No Flare	Patrol										
			17 2023		2048			No Flare	Patrol										
			17 2140		2244			No Flare	Patrol										
			18 2141		2142			No Flare	Patrol										
			18 2214		2342			No Flare	Patrol										
			19 0041		0055			No Flare	Patrol										
			19 1452		1507			No Flare	Patrol										
			19 1617		1641			No Flare	Patrol										
			19 1649		1653			No Flare	Patrol										
			20 1722		1723			No Flare	Patrol										
			21 0552		0556			No Flare	Patrol										
			23 1131		1140			No Flare	Patrol										
			24 1558		1605			No Flare	Patrol										
			24 2025		2031			No Flare	Patrol										
			24 2144		2212			No Flare	Patrol										
			25 1519		1526			No Flare	Patrol										
			25 1530		1540			No Flare	Patrol										
			27 2221		2231			No Flare	Patrol										
0050	HTPR	29	1101	1103	1108	N04	W08	4720	03	28.9	7	SF			C	1103	10	.1	E
0051		29	12012	1204	1216	N03	W08	4720	03	28.9	15	SB					82	.7	E
	HTPR	29	1201	1204	1214	N04	W08	4720	03	28.9	13	SB			C	1204	70	.7	E
	RAMY	29	1203	1204	1217	N02	W07	4720	03	29.0	14	SN	3		C		94		E
		29	1559		1646			No Flare	Patrol										
		31	2334		2348			No Flare	Patrol										

"Remarks":

A = Eruptive prominence whose base is less than 90° 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.