

8
May 77

H α SOLAR FLARES

MAY 1977

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE 1977 MAY	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS AREA Mill. of Disk	CORR AREA Sq. Deg		
					LAT.	MER. DIST.												
919 MITK	01	0219	0222	0232	S23	E19	.443	14742	2.5	13	-N	C	0222	50	.6	E	Y5	
	01	2004	2145	NO FLARE PATROL														
	02	2057	2058	NO FLARE PATROL														
920 MITK	03	0140	0146	0201	N34	E64	.946	14749	7.9	21	-F	C	0146	60		D	Y5	
	03	0209	0216	NO FLARE PATROL														
	03	0446	0459	NO FLARE PATROL														
	03	0500	0600	NO FLARE PATROL														
921 BUCA	03	0620		0653	N33	E60	.925	14749	7.8	33	N	C	0627	107	3.0		Y5	
	IMP.	1 NO	MITK2															
GRP63922	03	0705+3		0735	N31	E59	.915	14749	7.7	30	-N			60	1.4	D		
CATA	03	0705E	0710	0710	N31	E58	.909	14749	7.6	50	-B	2	0710	56	1.3	D		
BUCA	03	0708		0735	N31	E60	.920	14749	7.8	27	-N	C	0709	64	1.7	D		
GRP63923	03	0920+5	0925+5	1000	N33	E59	.920	14749	7.8	40	1F					E		
			0942															
KHAR	03	0920E	0930	10070	N34	E60	.927	14749	7.9	470	1F	P				E		
CATA	03	0925	0925	10000	N32	E57	.906	14749	7.7	350	-N	2	0925	56	1.3			
UPIC	03	0925E	0929U	0931	N34	E61	.932	14749	8.0	60	-F	P	0929	20	27.0			
UPIC	03	0942	0942	0952	N35	E58	.919	14749	7.8	10	1F	P	0942	122	157.0			
924 MONT	03	1048	1058	1124	N33	E58	.914	14749	7.8	36	-N	C	1058	110			Y5	
GRP63925	03	1428	1450	1525	N33	E55	.897	14749	7.7	57	-N					E		
MCHA	03	1428	1450	1525	N32	E55	.894	14749	7.7	57	-N	C	1450	30	.5	E		
CATA	03	1430E	1430	14400	N34	E56	.906	14749	7.8	100	1N	2	1430	84	2.0			
926 MCHA	03	1756	1810	1835	N32	E54	.888	14749	7.8	39	-B	C	1810	60	1.1	EH	Y5	
	03	2112	2120	NO FLARE PATROL														
	03	2138	2150	NO FLARE PATROL														
	03	2214	0206	NO FLARE PATROL														
GRP63927	04	1116	1116	1141	N33	E45	.832	14749	7.8	25	-B							
			1125															
ZURI	04	1116	1116	1144	N33	E45	.832	14749	7.8	28	-B	C	1116	50	1.0			
RAMY	04	1120E	1125	1138	N34	E45	.837	14749	7.8	180	-N	3	C	178		FDE		
GRP63928	04	1211+1	1214+1	1222	N32	E44	.820	14749	7.8	11	1N			150	2.5	EI		
KIEV	04	1211E	1215	12250	N31	E44	.814	14749	7.8	140	1N	C	1215	200	3.4	EI		
ZURI	04	1212	1214	1218	N33	E45	.832	14749	7.9	6	-N	C	1214	100	1.9			
929 RAMY	04	1640E	1641U	1652	N33	E42	.811	14749	7.8	120	-F	3	C	128		F	Y5	
930 RAMY	04	1725E	1728U	17410	N33	E42	.811	14749	7.9	160	-F	3	C	96		FDE	Y5	
	04	1808	1944	NO FLARE PATROL														
	05	0100	0155	NO FLARE PATROL														
	05	0309	0315	NO FLARE PATROL														
931 HTPR	05	0539	0542	0600	N33	E36	.767	14749	7.9	21	-F	C	0540	20	.3	E	Y5	
	05	2100	2112	NO FLARE PATROL														
	05	2126	2134	NO FLARE PATROL														
	05	2148	2232	NO FLARE PATROL														
	06	0319	0338	NO FLARE PATROL														
	06	0347	0400	NO FLARE PATROL														
	06	0410	0417	NO FLARE PATROL														
	06	0425	0430	NO FLARE PATROL														
932 HTPR	06	0605	0606	0615	N33	E24	.684	14749	8.1	10	-F	C	0606	20	.3	E	Y5	
GRP63933	06	0630+3	0635+5	0655	N34	E22	.682	14749	7.9	25	-N			120	1.6			
BUCA	06	0630		0717	N35	E24	.704	14749	8.1	47	1N	C	0637	214	3.1			
MANI	06	0633E	0640	0655	N33	E20	.660	14749	7.8	220	-N	2	0640	80	1.1	F		
HTPR	06	0633	0635	0655	N33	E22	.671	14749	7.9	22	-B	C	0635	120	1.5	E		
GRP63934	06	0738+2	0740+5	0755	N33	E23	.677	14749	8.0	17	-F					E		
HTPR	06	0738	0740	0753	N33	E22	.671	14749	8.0	15	-F	C	0740	30	.3	E		
MEUD	06	0739	0745	0755	N33	E23	.677	14749	8.0	16	-F	C	0745	60	.8	E		
BUCA	06	0740		0805	N34	E23	.688	14749	8.0	25	-N	C	0744	107	1.5	E		

12
May 77

H α SOLAR FLARES

MAY 1977

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE 1977 MAY	START	MAX PHASE	END	APPROX		CENTRAL DISTANCE	McNATH PLAGE REGION			CMP DAY	COND.	TYPE	TIME UT	MEAS. AREA MIN of Disk		CORR. AREA Sec. Deg.
					LAT.	MER. DIST.											
	31	1902	1908	NO FLARE PATROL													
	31	1942	1953	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 a 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 calcium II lines H and K.
- P = Flare shows helium D₃ in emission.
- Q = Flare shows the Balmer continuum in emission.
- R = Marked asymmetry in H α line suggests ejection of high velocity material.
- S = Brightness follows disappearance of filament (same position).
- T = Region active all day.
- U = Two bright branches, parallel (||) or converging (Y).
- V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
- W = Great increase in area after time of maximum intensity.
- X = Unusually wide H α line.
- Y = System of loop-type prominences.
- Z = Major sunspot umbra covered by flare.

MAY 1977			DAILY FLARE INDICES			MAY 1977		
			Includes all Flares					
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
770501	5.62	22.3	770511	5.28	24.0	770521	4.35	23.1
770502	0.00	24.0	770512	5.96	21.8	770522	5.07	23.3
770503	10.15	18.5	770513	0.00	23.4	770523	0.00	24.0
770504	18.68	22.4	770514	0.00	23.9	770524	0.00	23.5
770505	1.98	21.9	770515	0.00	22.8	770525	0.00	22.0
770506	22.38	20.2	770516	5.45	22.9	770526	0.00	23.0
770507	22.65	24.0	770517	0.00	21.2	770527	0.00	24.0
770508	.84	24.0	770518	3.79	19.1	770528	11.05	22.8
770509	3.75	18.9	770519	14.62	23.6	770529	3.38	24.0
770510	0.00	24.0	770520	3.39	23.6	770530	8.83	22.8
						770531	5.18	23.4

When no Flare Index is given, it is 0 for that day.