Hα SOLAR FLARES
Confirmed

MARCH 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE MAR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
	01	0318	0330	NO FLARE PATROL																
	01	0410	0417	NO FLARE PATROL																
	01	0423	0430	NO FLARE PATROL																
	01	0450	0539	NO FLARE PATROL																
	01	0548	0613	NO FLARE PATROL																
595 ABST	01	0617	0645D	0621	N06	E36	.619	12773	4.0	28D	--F		P	0621	.90	1.10		55	D	1
596 ABST	01	0623	0630	0626	N14	W16	.446	12768	28.1	7	--F		C	0626	.90	1.00		52	D	1
	01	0645	0653	NO FLARE PATROL																
	01	0658	0730	NO FLARE PATROL																
	01	1520	1530	NO FLARE PATROL																
	01	1535	1721	NO FLARE PATROL																
	01	1725	1727	NO FLARE PATROL																
	01	1810	1835	NO FLARE PATROL																
	01	1840	1851	NO FLARE PATROL																
	01	1956	2018	NO FLARE PATROL																
597 TEHR	02	0612	0652	0619	N05	E32	.562	12773	4.7	40	--N	3	C		.64				U F	1
598 ABST	02	0742	0800	0744	N15	W33	.637	12768	27.8	18	--F		C	0744	.90	1.20			DG	3
599 RAMY	02	1633	1651	1639	N07	E14	.341	12773	3.7	18	--F	4	C		.46				DE	2
	02	2130	2131	NO FLARE PATROL																
	02	2214	2217	NO FLARE PATROL																
	02	2332	2340	NO FLARE PATROL																
	03	0407	0416	NO FLARE PATROL																
	03	0436	0440	NO FLARE PATROL																
GRP50600	03	1340	1355	1343	S02	E14	.257	12777	4.6	15	--F				.34				2 2 2 3	
RAMY	03	1340	1355	1343	S02	E14	.257	12777	4.6	15	-F	4	C		.37				DE S	
MEUD	03	1343E	1355		S02	E14	.257	12777	4.6	12D	-F		C	1343	.31	.30			CD	
	03	2108	2113	NO FLARE PATROL																
	03	2202	2208	NO FLARE PATROL																
	04	0031	0034	NO FLARE PATROL																
601 ABST	04	0720	0725	0721	N12	E81	.992	12781	10.4	5	1N		C	0721	.90			88	DV	1
602 ABST	04	0905	0915	0906U	N12	E80	.990	12781	10.4	10	1N		P	0906	.90			84	D	2
	04	0925	0959	NO FLARE PATROL																
	04	1017	1030	NO FLARE PATROL																
	04	1418	1427	NO FLARE PATROL																
	04	1530	1613	NO FLARE PATROL																
	04	1707	1727	NO FLARE PATROL																
	05	2021	2031	NO FLARE PATROL																
	05	2045	2051	NO FLARE PATROL																
	05	2054	2150	NO FLARE PATROL																
603 ABST	06	0605	0625	0608	N11	E49	.789	12781	9.9	20	1F		C	0608	1.79	2.80		54	F	2
604 ABST	06	0612	0645	0618	N12	E50	.802	12781	10.0	33	1F		C	0618	1.35	2.10		58	EJ	2

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OBSERVATORY	OBSERVED UT DATE MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	06	0925	0945	NO FLARE PATROL															
608 HUAN	07	2132	2140	2134	N06	E53	.814	12782	11.9	8	--F	1	C	2134	.31	.54			3
	08	0243	0250	NO FLARE PATROL															
	08	0316	0324	NO FLARE PATROL															
	08	0338	0343	NO FLARE PATROL															
	08	0420	0430	NO FLARE PATROL															
	08	0440	0450	NO FLARE PATROL															
	08	1250	1251	NO FLARE PATROL															
	09	0214	0221	NO FLARE PATROL															
	09	0520	0528	NO FLARE PATROL															
	09	0552	0556	NO FLARE PATROL															
	09	0719	0721	NO FLARE PATROL															
	09	0748	0800	NO FLARE PATROL															
	09	1437	1450	NO FLARE PATROL															
609 RAMY	09	2006	2041	2012	N01	E13	.265	12791	10.8	35	--F	3	C		.21				DE 1
	09	2239	2241	NO FLARE PATROL															
	10	0420	0426	NO FLARE PATROL															
	10	0807	0810	NO FLARE PATROL															
611 MCMA	10	1612	1642	1624	N05	E17	.357	12782	12.0	30	--N		C	1624	.30	.30			D 2
612 RAMY	10	1739	1814	1743	N05	E16	.344	12782	11.9	35	--F	4	C		.28				U 2
613 RAMY	10	1739	1814	1752	N05	E16	.344	12782	11.9	35	--N	4	C		.74				U 2
614 MCMA	10	1752	1759D	1754	S15	E89	.999	12795	17.4	7D	--F		C	1754					D 2
616 RAMY	11	1237	1243	1240	S01	W17	.310	12791	10.3	6	--F	4	C		.46				DE 1
617 BOUL	11	1602	1608	1602	S17	E76	.964	12795	17.4	6	--F		V	1602		.30			2
	12	0600	0623	NO FLARE PATROL															
619 HUAN	12	2046E	2051D		N03	W31	.538	12791	10.5	5D	--F	1	P	2047	.21	.25			D 2
	12	2116	2149	NO FLARE PATROL															
GRP50620	12	2342	0004	2345	N04	W13	.295	12782	12.0	22	--B				.74				2 1 1 4
VORO	12	2342	0004	2345	N04	W13	.295	12782	12.0	22	-B		C	2345	.74	.76		68	EJ
BOUL	12	2342	0000U	2357	N04	W12	.283	12782	12.1	18D	-F		C	2357	.32	.33			
	13	0445	0446	NO FLARE PATROL															
	13	0450	0459	NO FLARE PATROL															
	13	0533	0642	NO FLARE PATROL															
	13	0658	0710	NO FLARE PATROL															
621 CATA	13	0710E	0715	0710	S01	W42	.673	12791	10.1	5D	--F	1		0710	.58	.78		(141)	2
622 RAMY	13	1812	1814D	1814U	N06	W25	.473	12782	11.9	2D	--F	3	C		.46				F 2
GRP50623	13	2242	0001	2250	S12	E28	.470	12794	16.0	79	--F				.83				2 2 1 4
BOUL	13	2242	0001	2250	S12	E29	.484	12794	16.1	79	-F		V	2250		.70			
MANI	13	2249E	2307D	2249U	S11	E27	.453	12794	16.0	18D	-F	1		2249	.83	.94			F
624 MONT	14	1032	1047	1037	S24	E60	.864	12797	18.9	15	--F		C	1037	.21				1
	14	2135	2152	NO FLARE PATROL															

Hα SOLAR FLARES
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OBSERVATORY	DATE MAR	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP50625	16	0958	1057	1009	S13	W06	.145	12794	16.0	59	-B				2.00				3 2 2 3
MONT	16	0955	1057	1012	S12	W05	.120	12794	16.0	62	-N		C	1012	2.27				
ATHN	16	0956E	1037D	0958	S12	W08	.161	12794	15.3	41D	-N	1		0958	.99	.97			
CATA	16	1000	1030D	1005	S13	W06	.145	12794	16.0	30D	-B	3		1005	1.73	1.75		(209)	
	16	1358	1409	NO FLARE PATROL															
	17	1929	2110	NO FLARE PATROL															
	17	2356	0010	NO FLARE PATROL															
	18	0043	0054	NO FLARE PATROL															
	18	0100	0105	NO FLARE PATROL															
	18	0200	0202	NO FLARE PATROL															
	18	0206	0211	NO FLARE PATROL															
	18	0218	0225	NO FLARE PATROL															
	18	0331	0339	NO FLARE PATROL															
	18	0357	0405	NO FLARE PATROL															
	18	0429	0431	NO FLARE PATROL															
	18	2116	2125	NO FLARE PATROL															
	18	2200	2210	NO FLARE PATROL															
	19	0300	0334	NO FLARE PATROL															
	19	0351	0353	NO FLARE PATROL															
	19	0359	0411	NO FLARE PATROL															
	19	0433	0441	NO FLARE PATROL															
627 ATHN	19	0602E	0616	0604	S07	E74	.958	12812	24.8	14D	--N	4	V		.17				OE 3
628 ARCE	19	0815E	0853D		S09	E73	.952	12812	24.8	38D	--F		C	0825	.13				3
	19	1006	1050	NO FLARE PATROL															
	19	1059	1101	NO FLARE PATROL															
GRP50629	19	1403	1414	1404	S22	W29	.525	12795	17.4	11	--F				.52				2 2 2 2
RAMY	19	1402	1415	1404	S21	W27	.494	12795	17.6	13	-F	4	C		.37				OE
ATHN	19	1403	1412	1404	S22	W31	.550	12795	17.3	9	-N	2	C		.66				F
	19	1448	1457	NO FLARE PATROL															
	19	1504	1505	NO FLARE PATROL															
GRP50630	19	1505	1524	1506	S22	W30	.538	12795	17.4	19	--F				.81				2 2 2 2
RAMY	19	1505E	1524	1506U	S22	W29	.525	12795	17.5	19D	-F	4	C		.74				F
HUAN	19	1513E	1516D		S22	W30	.538	12795	17.4	3D	-F	1	P	1513	.88	1.05			E
	20	2053	2101	NO FLARE PATROL															
	20	2105	2220	NO FLARE PATROL															
639 HUAN	21	2137	2148	2140	S19	W62	.877	12795	17.3	11	--F	1	C	2140	.46	.98			3
GRP50641	22	0150	0214	0155	N14	W23	.515	12820	20.4	24	--F				.93				2 1 1 4
MITK	22	0150	0214	0155	N14	W23	.515	12820	20.4	24	-F		C	0155	.93	1.10			EG
MANI	22	0209	0225	0213	N14	W23	.515	12820	20.4	16	-N	2		0213	.93	1.09			FH
	22	0549	0555	NO FLARE PATROL															
643 MANI	22	0605	0618	0609	N15	W25	.547	12820	20.4	13	--F	2		0609	.41	.50			F 2
644 HUAN	22	1855	1859	1855	N15	W31	.613	12820	20.5	4	--F	1	C	1855	.36	.45			2
645 HUAN	22	1916	1924	1920	N15	W31	.613	12820	20.5	8	--N	2	C	1920	.26	.32			0 1
646 HUAN	22	1957	2004	1959	N15	W33	.635	12820	20.4	7	--F	1	C	1959					1

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OBSERVATORY	OBSERVED UT DATE MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	22	2104	2230	NO FLARE PATROL															
GRP50650	23	0452	0504	0453	N14	W38	.684	12820	20.4	12	--F				.32				2 2 2 5
ATHN	23	0452E	0504	0452U	N13	W38	.678	12820	20.4	12D	-F	1	V		.33				DE
MANI	23	0453E	0501D	0453U	N15	W38	.690	12820	20.4	8D	-N	1		0453	.31	.40			
GRP50652	23	1402	1423	1410	N15	W40	.711	12820	20.6	21	--F				.39				2 2 2 3
ATHN	23	1402	1424	1409	N15	W40	.711	12820	20.6	22	-N	3	C		.50				F
RAMY	23	1411E	1422	1411U	N15	W39	.700	12820	20.7	11D	-F	3	C		.28				DE
653 HUAN	23	1843	1910		S19	W04	.219	12811	23.5	27	--F	1	P	1847					2
	23	2048	2050	NO FLARE PATROL															
	23	2108	2112	NO FLARE PATROL															
	23	2132	2144	NO FLARE PATROL															
	23	2151	2152	NO FLARE PATROL															
	23	2217	2245	NO FLARE PATROL															
	23	2246	2254	NO FLARE PATROL															
654 PALE	24	0247E	0255	0251U	S17	W89	.999	12795	17.4	8D	--F	2	V		.52				2
	24	0826	0835	NO FLARE PATROL															
655 HUAN	24	1555	1604	1556	S07	W03	.052	12812	24.4	9	--F	1	C	1556	.46	.46			3
656 PALE	25	0310	0318	0312	N16	W61	.903	12820	20.6	8	--N	2	C		.34				DE 3
658 MONT	28	1100	1121	1107	N07	W34	.596	12834	25.9	21	--F		C	1107	.21				2
GRP50660	28	2151	2216	2159	N07	W39	.660	12834	26.0	25	--F				.46				3 3 3 3
RAMY	28	2150	2200D	2157	N06	W39	.655	12834	26.0	10D	-F	2	C		.31				DE
PALE	28	2150	2218	2159	N08	W39	.664	12834	26.0	28	-N	3	C		.45				F
HUAN	28	2154	2214	2200U	N07	W39	.660	12834	26.0	20	-F	1	C	2200	.62	.82			
661 PALE	28	2325	2333D	2328U	N08	W40	.676	12834	26.0	8D	--N	3	C		.36				F 1
662 MANI	28	2335E	2337D	2335U	N09	W42	.704	12834	25.8	2D	--N	1		2335	.31	.45			2
GRP50664	29	0029	0038	0033	N08	W42	.699	12834	25.9	9	--F				.29				2 2 2 3
MANI	29	0029	0038	0032	N08	W42	.699	12834	25.9	9	-F	2		0032	.31	.45			F
PALE	29	0029	0038D	0034U	N08	W41	.688	12834	25.9	9D	-F	2	C		.27				F
GRP50665	29	0059	0115	0102	N09	W42	.703	12834	25.9	16	--F				.36				2 2 2 3
PALE	29	0056E	0112	0057U	N08	W41	.688	12834	26.0	16D	-F	2	C		.31				F
MANI	29	0102	0118D	0107	N09	W42	.703	12834	25.9	16D	-N	2		0107	.41	.60			F
666 PALE	29	0119	0131	0122	N08	W42	.699	12834	25.9	12	--F	2	C		.68				DE H 3
670 RAMY	29	1514	1531	1517	N27	W69	.964	12833	24.5	17	--F	4	C		.28				DE 3
671 UPIC	30	1148E	1305		S12	E53	.793	12835	3.5	77D	-N		P	1148	.85				K 2
672 UPIC	30	1327E	1344	1327U	S12	E53	.793	12835	3.5	17D	--F		P	1327	.42				2
	30	1609	1619	NO FLARE PATROL															
	30	1635	1649	NO FLARE PATROL															
	30	1701	1728	NO FLARE PATROL															
673 BOUL	30	1750	1801	1752	S13	E48	.739	12835	3.3	11	--F		V	1752		.70			2
	31	0341	0344	NO FLARE PATROL															
	31	0429	0432	NO FLARE PATROL															
	31	0437	0505	NO FLARE PATROL															
	31	0935	0940	NO FLARE PATROL															
	31	0951	0955	NO FLARE PATROL															
	31	1614	1741	NO FLARE PATROL															

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	DATE MAR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	31	1747	1817	NO FLARE PATROL														
	31	1935	2015	NO FLARE PATROL														
	31	2018	2045	NO FLARE PATROL														
	31	2104	2211	NO FLARE PATROL														
	31	2228	2300	NO FLARE PATROL														

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 D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked assymetry in Hα 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 Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

Note:
A line of explanation has been added before each flare event having more than one maxima. The total number of stations reporting some part of the event is given. The number of stations observing at the time of the principal maximum but not reporting the event is given in the second statement. Care should be exercised in utilizing the numbers in the remarks column. The first number is the number of stations reporting the individual maximum, and not the total number of stations reporting some part of the flare event. The last number is the number of stations reporting at the time of the individual maximum and not necessarily the total number of stations observing during the flare event. GRP numbers may appear several times in order to indicate secondary maxima. An asterisk beside an importance indicates a secondary maximum. The word "GRP" has also been omitted to aid in pointing to this condition.
When it is impossible to determine the time of Maximum Phase from the individual reports the time of Area Measurements is used. This time appears in parentheses. For Flares reported by only one station the last 3 digits of the group number appear to the left of the station code.

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
740301	0.00	18.7	740310	0.00	23.9	740320	0.00	22.6
740302	0.00	23.8	740312	0.00	23.1	740322	0.00	22.5
740303	0.00	23.6	740313	0.00	22.5	740323	0.00	23.1
740304	9.15	22.0	740314	0.00	23.7	740324	0.00	23.9
740305	0.00	22.8	740316	21.11	23.8	740330	3.81	23.1
740306	26.53	23.7	740317	0.00	22.1	740331	0.00	18.6
740308	0.00	23.3	740318	0.00	22.9			
740309	0.00	23.2	740319	0.00	22.1			

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

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Unconfirmed
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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE MAR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
605 MEUD	06	1450	1510	1455	N13	W90	1.000	12768	27.9	20	-N		C	1455	.41					6
606 ABST	07	0835	0852D	0840	N04	W48	.757	12773	3.8	17D	-F		P	0840	.90	1.40			EG	4
607 ABST	07	0843	0852D	0845	N11	E36	.646	12781	10.1	9D	1F		P	0845	1.79	2.30			EJ	4
610 ABST	10	1156	1205D	1157	S16	E89	.999	12795	17.2	9D	1N		P	1157	1.07			71	AD	6
615 MONT	11	0958	1006	1002	N01	W15	.294	12791	10.3	8	-F		C	1002	.21				H	7
618 MONT	12	0946	0959	0950	N03	W28	.496	12791	10.3	13	-F		C	0950	.21					7
626 MCMA	17	1328	1353D		S15	E28	.478	12810	19.7	25D	-F		C	1340	.41	.50			EH	4
631 MANI	20	0015E	0025	0015U	S21	W34	.584	12795	17.5	10D	-F	1		0015	.21	.26				6
632 MONT	20	1237	1245	1240	S15	W46	.716	12795	17.1	8	-N		C	1240	.21				D	6
633 HUAN	20	1353	1410	1357	S15	W47	.728	12795	17.1	17	-F	2	C	1357	.31	.44				5
634 MANI	21	0422E	0424D	0422U	S08	E49	.750	12812	24.9	2D	-F	2		0422	.31	.47			F	3
635 MONT	21	0906	0933	0910	S07	E48	.739	12812	25.0	27	-N		C	0910	.41					9
636 ARCE	21	1000E	1025D		S14	W59	.851	12795	17.0	25D	-F		C	1010	.36	.70				11
637 UPIC	21	1133E	1138U		S08	E45	.702	12812	24.9	5D	-F		P	1133	.85					11
638 HUAN	21	1540	1545	1541	S16	E32	.538	12811	24.1	5	-F	1	C	1541	.21	.25			D	7
640 MANI	22	0125	0145	0129	N14	W23	.515	12820	20.3	20	-N	2		0129	.83	.97			FH	5
642 MANI	22	0352E	0406	0352U	N14	W24	.526	12820	20.4	14D	-N	2		0352	.83	.98			F	4
647 PALE	23	0247	0255	0251	S19	W89	.998	12795	16.4	8	-F	2	C		.54					4
648 MANI	23	0303E	0305D	0303U	S07	E24	.404	12812	24.9	2D	-F	2		0303	.41	.45			F	3
649 MANI	23	0311E	0328	0315	S15	W81	.983	12795	17.1	17D	-F	2		0315	.31	.83				4
651 MONT	23	1201	1206	1202	N16	W38	.695	12820	20.7	5	-F		C	1202	.21					5
657 MANI	25	0601	0619	0614	N14	W66	.932	12820	20.3	18	-F	2		0614	.21	.44				3
659 PALE	28	1920	1940	1929	N08	W38	.652	12834	26.0	20	-F	3	C		.27				F	4
663 MANI	28	2354	0020D	2358	N07	W42	.696	12834	25.8	26D	-N	2		2358	.41	.58			FH	3
667 MANI	29	0252E	0307	0254	N13	E78	.985	12843	4.0	15D	-N	2		0254	.72	1.86			F	5
668 PALE	29	0314E	0322D	0315U	N08	W43	.711	12834	25.9	8D	-N	2	V		1.13				F	3
669 ABST	29	0724E	0742D	0734U	N07	W45	.731	12834	25.9	18D	-F		P	0734	.99	1.40			D	6