

4
Jan 74

H α SOLAR FLARES

Confirmed

JANUARY 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	CHP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
GRP50323 CANR MONT KHAR	01	1220	1514	NO FLARE PATROL														
	01	1519	1540	NO FLARE PATROL														
	01	1545	2230	NO FLARE PATROL														
	01	2233	2335	NO FLARE PATROL														
	02	1105	1123	1112	S16	E02	.225	12684	2.6	18	--N			.91			3 3 3 5	
324 BOUL	02	1100	1125	1115	S15	E04	.217	12684	2.8	25	--N	V	1115	.31	.30			
	02	1107	1120	1109	S16	E01	.224	12684	2.5	13	--N	C	1109	.72			OH	
	02	1107E	1115D		S17	E01	.240	12684	2.5	80	--N	C	1109	1.70	1.70			
	02	1612	1625	1614	S15	W03	.212	12684	2.5	13	--N	V					2	
	02	1927	2021	NO FLARE PATROL														
327 BOUL	03	1521	1529	1522	N06	E90	1.000	12686	10.4	8	--F	C	1522	.21	.85		3	
	03	1859	1913	NO FLARE PATROL														
328 RAMY	03	1939E	1946D		S12	E87	.998	12699	10.3	70	--F	3 V				DE	2	
	03	2114	2120	NO FLARE PATROL														
329 RAMY	04	1531	1539	1534	N16	E01	.332	12696	4.7	8	--F	3 C		.19		DE	2	
	04	2001	2007	NO FLARE PATROL														
	05	1645	1708	NO FLARE PATROL														
	05	1723	1827	NO FLARE PATROL														
	05	1906	1927	NO FLARE PATROL														
GRP50331 BOUL CROM	05	2001	2229	NO FLARE PATROL														
	06	1948	2234	NO FLARE PATROL														
	06	2230	2235	2231	S14	W57	.840	12684	2.7	5	--N			.54			2 2 1 2	
	06	2230	2237	2231	S13	W57	.839	12684	2.7	7	--N	C	2232	.54	.98			
	06	2231E	2232		S15	W57	.841	12684	2.7	10	--N	V						
332 CROM	07	1835	1841	NO FLARE PATROL														
	07	1847	1904	NO FLARE PATROL														
	07	1945	2240	NO FLARE PATROL														
	08	0101	0114D		S22	E54	.823	12690	12.1	130	--F	V		.72			1	
	08	1144	1200	1147	N07	E15	.317	12686	9.6	16	--N			.53			4 3 2 6	
GRP50333 RAMY MONT TEHR KHAR	08	1144	1202	1148	N08	E15	.326	12686	9.6	18	--N	3 C		.65		DE		
	08	1144	1157	1146	N07	E15	.317	12686	9.6	13	--N	C	1146	.41		E		
	08	1145E	1155	1146D	N18	E16	.453	12686	9.7	100	--N	3 C		.21		DE		
	08	1147E	1153D		N07	E15	.317	12686	9.6	60	--F	P				D		
GRP50335 RAMY TEHR	08	1231	1246	1234	S06	E79	.981	12694	14.4	15	--F			.12		2 2 1 4		
	08	1230	1246	1234	S04	E82	.990	12694	14.7	16	--N	3 C		.12		DE		
	08	1231	1241D	1234	S07	E76	.969	12694	14.2	100	--F	2 C						
GRP50336 MCMA CANR	08	1539	1551	1545	S08	E78	.977	12694	14.5	12	--F			.36		2 2 2 3		
	08	1535	1551	1545	S08	E77	.973	12694	14.4	16	--N	C	1545	.31	1.20	E		
	08	1543	1550	1544	S07	E79	.980	12694	14.6	7	--F	V		.41	.80			
	08	1750	1804	NO FLARE PATROL														
	08	1805	1932	NO FLARE PATROL														
	08	2005	2042	NO FLARE PATROL														
	08	2106	2110	NO FLARE PATROL														
	08	2129	2235	NO FLARE PATROL														
GRP50337 PALE RAMY	09	2040	2055	2045	S17	E90	1.000	12702	16.6	15	--F			.19		2 2 1 3		
	09	2040	2055	2043	S18	E90	1.000	12702	16.6	15	--F	3 C		.19				
	09	2046E	2055	2046D	S16	E90	1.000	12702	16.6	90	--F	3 V						

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	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCNATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP50341	10	0940	1004	0946	S21	E90	1.000	12702	17.2	24	1F			1.44				3 2 1 6
KHAR	10	0940E	1002	0948	S17	E89	.999	12702	17.1	220	1N	C	0944	1.44				H
CATA	10	0944E	1000D	0944	S24	E90	1.000	12702	17.2	160	1F							(135) A
MONT	10	0951E	1004	1000	S17	E85	.995	12702	16.8	130	-N	C	1000	.21				D
342 MONT	10	1025	1040	1030	S09	E90	1.000	19313	17.2	15	--N	C	1030	.21				4
343 MONT	10	1108	1113	1109	S13	E54	.810	19312	14.5	5	--F	C	1109	.10				3
	10	2150	2151															
	10	2153	2156															
	10	2214	2233															
GRP50347	11	0825	0915	0834	N05	W28	.491	19311	9.3	50	-N			1.86				2 2 2 5
MONT	11	0825	0848D	0838	N05	W32	.548	19311	9.0	230	-N	C	0838	2.27				
CATA	11	0830E	0915	0830	N04	W23	.413	19311	9.6	450	-N		0830	1.44	1.59			(158)
GRP50348	11	1315	1335	1319	S09	E38	.616	19312	14.4	20	--F			.62				2 2 2 3
RAMY	11	1314	1318D	1318U	S08	E38	.615	19312	14.4	40	-F	3 C		.37				DE
CATA	11	1315	1335	1320	S09	E38	.616	19312	14.4	20	-N		1320	.87	1.10			(151)
	11	2225	2247															
349 VORO	12	0153	0159	0153	S10	E60	.864	19313	16.6	6	-B	C	0153	.65	1.25			63 DJ 3
GRP50350	12	0653	0703	0656	S13	E56	.829	19313	16.5	10	-F			.71				2 2 2 4
ABST	12	0653	0700	0655	S14	E56	.829	19313	16.5	7	-N	C	0655	.90	1.70			D
MANI	12	0657E	0705D	0657U	S12	E56	.828	19313	16.5	80	-F	1	0657	.52	.89			F
GRP50352	12	1015	1023	1017	S13	E56	.829	19313	16.6	8	-N			1.55				3 3 2 7
KHAR	12	1014E	1023	1017	S13	E55	.819	19313	16.6	90	1N	C	1017	1.96	3.50			D
CRON	12	1015E	1023	1017	S13	E56	.829	19313	16.6	80	-N	V						H
MONT	12	1015	1024	1016	S12	E56	.828	19313	16.6	9	-B	C	1016	1.13				
GRP50353	12	1028	1047	1032	S18	E82	.988	12703	18.6	19	1B			1.36				4 4 3 7
MONT	12	1028	1045	1033	S19	E80	.982	12703	18.4	17	-B	C	1033	.72				
CANR	12	1028	1045	1032	S17	E83	.990	12703	18.7	17	1B	V		.72				
KHAR	12	1030E	1048	1031	S18	E79	.979	12703	18.4	180	1N	C	1031	2.63				D
CRON	12	1030E	1050		S19	E84	.992	12703	18.7	200	1N	V						
354 MCMA	12	1805	1818	1809	S09	E20	.349	12694	14.3	13	--N	C	1809	.62	.70			E 1
355 MCMA	12	1838	1841	1838	S19	E77	.972	12703	18.6	3	--N	C	1838	.15	.60			D 1
	12	1920	1935															
356 BOUL	12	2050	2053D	2053	S20	E72	.949	19315	18.3	30	--F	C	2053	.32	.91			1
357 MITK	13	0529	0540	0533	S19	E71	.943	19315	18.6	11	1B	C	0533	1.44				4
GRP50358	13	1609	1628	1611	N05	W57	.845	12686	9.4	19	-N			.62				2 2 1 4
MCMA	13	1609E	1628D	1611	N05	W57	.845	12686	9.4	190	-N	P	1611	.62	1.10			E
CANR	13	1610E	1610D	1610D	N05	W56	.836	12686	9.5		-N	V						
GRP50360	13	1650	1659	1654	S18	E61	.876	19315	18.3	9	-N			.57				3 3 3 3
BOUL	13	1650	1700	1653	S20	E63	.892	19315	18.4	10	-N	C	1653	.75	1.63			
CANR	13	1654E	1700	1655	S16	E62	.882	19315	18.4	60	-N	V	1655	.62	1.50			
RAMY	13	1654E	1658	1654U	S17	E58	.850	19315	18.1	40	-N	4 V		.33				DE
362 RAMY	14	1229E	1229D	1229U	N06	W73	.959	19311	9.0		-N	2 C		.46				DE 2
363 RAMY	14	1430	1441D	1432U	N08	W14	.321	19318	13.6	110	--F	3 C		.28				DE 2
364 RAMY	14	1650E	1701	1652	N04	W71	.948	19311	9.4	110	--F	3 C		.28				DE 2
	14	1735	1756															
	14	1811	2209															
	14	2250	2320															
365 MANI	15	0059	0112	0103	N10	W20	.417	19318	13.5	13	--F	2	0103	.21	.23			2
366 MANI	15	0117E	0124	0119	N06	W80	.986	19311	9.1	70	--F	2	0119	.31	.80			2
370 MANI	15	0627	0633D	0629	N09	W23	.448	19318	13.5	60	--F	2	0629	.21	.23			3

H α SOLAR FLARES

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	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCWATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH RC	MAX. INT. %	
GRP50371	15	0707	0730	0717	N05	H79	.983	19311	9.4	23	--F							2 2 2 3
MANI	15	0702	0714	0707	N07	H86	.998	19311	8.8	12	-F	2	0707	.42	.21	.60		
MANI	15	0712	0725	0717	N04	H80	.986	19311	9.3	130	-N	2	0717	.52	1.33			
CRON	15	0716E	0730		N04	H75	.968	19311	9.7	140	-F			.31				
GRP50372	15	0758	0825	0800	N07	H88	1.000	12686	8.7	27	-N			.42			2 2 2 4	
CRON	15	0758E	0821	0800	N07	H90	1.000	12686	8.6	230	-N			.31				
MANI	15	0758E	0828	0800	N07	H86	.998	12686	8.9	300	-N	2	0800	.52	1.54			
GRP50375	15	1050	1119	1057	N08	H85	.997	12686	9.1	29	1N			1.37			5 5 5 8	
KHAR	15	1020E	1200	1052	N08	H86	.998	12686	9.0	1000	2N	P	1057	3.40		3.00	EH	
ARCE	15	1050E	1114		N06	H84	.995	12686	9.2	240	-N	C	1100	.75			HF	
CANR	15	1050	1124	1056	N07	H88	1.000	12686	8.9	34	2N	V	1100	1.65	6.40			
CANR	15	1050	1124		N07	H88	1.000	12686	8.9	34	-N		1118		.70			
MONT	15	1055	1116	1105	N07	H87	.999	12686	8.9	21	-N	C	1105	.41				
ATHN	15	1056E	1120	1056	N10	H80	.988	12686	9.5	240	-N	2	V	.66			F	
GRP50376	15	1127	1147	1135	S14	E62	.881	19321	20.1	20	-N			.85			3 3 2 6	
ARCE	15	1126	11410	1134	S13	E60	.864	19321	20.0	150	1N	C	1139	1.29	2.60		F	
MONT	15	1128	1143	1132	S14	E60	.864	19321	20.0	15	-N	C	1132	.41			E	
KHAR	15	1133E	11500	1139	S15	E65	.904	19321	20.4	170	-F	V	1133			1.80	OH	
378 RAMY	15	1422E	1429D	1423U	N07	H84	.996	19311	9.3	70	--N	2	V	.21			DE	
	15	1745	1859															
	15	2241	2309															
	15	2330	2341															
	15	2345	0030															
379 MITK	16	0301	0322	0310	S14	E56	.828	19321	20.3	21	-N	C	0310	1.03	1.80		E	
GRP50383	16	1101	1113	1104	S18	E23	.441	19315	18.2	12	--N			.83			2 2 2 6</	

7
Jan 74

H α SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
	19	1640	1715	NO FLARE PATROL														
393 BOUL	19	1647	1657	1647	S18	W19	.386	19315	18.3	10	--N	V	1647		.40			1
394 BOUL	19	1730	1740	1734	N06	W18	.359	19325	18.4	10	--F	C	1734	.11	.11			1
395 BOUL	19	1840	1849	1842	N06	W18	.359	19325	18.4	9	--F	C	1842	.21	.23			2
399 CATA	20	1325E	1405	1335	N13	W11	.360	12710	19.7	400	--F		1335	.87	.93	(148)		3
GRP50401 BOUL RAMY PALE	20	1836	1849	1838	S16	W07	.224	19321	20.3	13	--N			.43				3 3 3 3
	20	1835	1855	1838	S15	W08	.220	19321	20.2	20	--F	C	1838	.43	.43			
	20	1836	1850	1838	S16	W07	.224	19321	20.3	14	--N	4 V		.33			DE	
	20	1837E	1842	1837U	S16	W05	.208	19321	20.4	50	--N	3 V		.52			F	
	20	2210	2211	NO FLARE PATROL														
402 PALE	20	2254	2316	2300	N07	W37	.627	19325	18.2	22	--N	3 C		.36				F 2
	21	1630	1644	NO FLARE PATROL														
GRP50404 PALE PALE RAMY	21	1839	1905	1842	N14	W26	.532	12710	19.8	26	--F			.69				2 2 2 2
	21	1838	1905	1842	N14	W25	.520	12710	19.9	27	--F	3 C		.81				
	21	1838	1905	1855	N14	W25	.520	12710	19.9	27	--F	3 C		.72				
	21	1839	1904	1842	N13	W26	.523	12710	19.8	25	--N	4 C		.56				
GRP50405 HUAN PALE	21	2047	2059	2052	N07	W48	.759	19325	18.3	12	--N			.54				2 2 2 2
	21	2044	2058U		N06	W48	.757	19325	18.3	140	--N	1 P	2056	.36	.55			E
	21	2049	2059U	2052U	N07	W47	.748	19325	18.3	100	--N	3 C		.72			F	
	21	2059	2107	NO FLARE PATROL														
	21	2214	2223	NO FLARE PATROL														
GRP50406 CRON MANI	21	2244	2336	2320	N06	W51	.789	19325	18.1	52	--N			.62				2 2 2 3
	21	2244E	2320		N06	W50	.779	19325	18.2	360	--N			.31				
	21	2307E	2351U	2320U	N06	W52	.800	19325	18.1	440	--N	1	2320	.93	1.52			F
407 MITK	22	0204	0220	0210	N05	W52	.798	19325	18.2	16	--F	C	0210	.62	1.00			EH 4
GRP50408 MITK KODA KODA MITK	22	0232	0453	0344	N06	W51	.789	19325	18.3	141	--F			.72				2 2 1 4
	22	0227	0245	0232	N05	W52	.798	19325	18.2	18	--F	C	0232	.62	1.00			DH
	22	0236	0453	0344	N07	W50	.781	19325	18.4	137	1N	P				2.32		
	22	0236	0453	0245	N07	W50	.781	19325	18.4	137	1N	P	0253	4.70	4.70	2.40		DHKL
22	0339	0350	0344	N05	W53	.808	19325	18.2	11	--F	C	0344	.72	1.20			EH	
GRP50410 CANR CATA CRON	22	0837	0915	0851	N06	W55	.829	19325	18.2	38	--N			.85				3 3 3 6
	22	0834	0900U	0845	N07	W55	.831	19325	18.2	260	--N	V	0845	.72	1.20			
	22	0840	0905U	0855	N05	W56	.837	19325	18.2	250	--B		0855	.58	1.06	(209)		
	22	0846E	0915U	0852	N07	W55	.831	19325	18.2	290	--N	V		1.24				
GRP50414 KHAR MONT CATA RAMY MONT CANR	22	1154	1214	1201	N06	W59	.866	19325	18.1	20	--N			.91				5 5 5 7
	22	1148	1212U	1200	N08	W58	.860	19325	18.1	240	1N	P	1200	2.68	5.20	1.80		E
	22	1149	1215	1150	N05	W60	.873	19325	18.0	26	--N	C	1150	.21				D
	22	1155	1220	1205	N04	W59	.863	19325	18.1	25	--N		1205	.58	1.14	(186)		
	22	1155E	1210	1155U	N04	W60	.872	19325	18.0	150	--N	3 C		.46				DE
	22	1157	1205	1200	N07	W58	.859	19325	18.1	8	--N	C	1200	.21				O
22	1200E	1212U	1205	N07	W59	.867	19325	18.1	120	--N	V	1205	.62	1.20				
GRP50415 RAMY RAMY CATA	22	1332	1353	1338	N05	W60	.873	19325	18.1	21	--B			.62				2 2 2 3
	22	1329	1353	1341	N05	W60	.873	19325	18.1	24	--N	4 C		.65				OE
	22	1329	1353	1331	N05	W60	.873	19325	18.1	24	--F	4 C		.28				OE
	22	1335	1335U	1335	N05	W59	.864	19325	18.1		--B		1335	.58	1.15	(240)		
419 BOUL	22	1534	1713	1536U	N06	W56	.839	19325	18.4	99	1N	V	1536		2.90			2
	22	1543	1556	NO FLARE PATROL														
GRP50420 BOUL HUAN RAMY	22	1734	1758	1746	N07	W62	.892	19325	18.1	24	--N			.70				3 3 2 3
	22	1730	1755	1743	N08	W62	.893	19325	18.1	25	1F	C	1743	1.07	2.26			
	22	1738	1751	1744	N08	W63	.900	19325	18.0	13	--N	1 C						
	22	1745E	1808U	1750	N05	W61	.881	19325	18.2	230	--N	4 V		.33				DE
22	1745E	1808U	1802	N05	W61	.881	1808U	18.2	230	--N	4 V		1.24				OE	
GRP50421 PALE BOUL RAMY	22	1914	1934	1921	N08	W60	.877	12708	18.3	20	1F			1.59				3 3 3 3
	22	1911	1936	1920	N09	W62	.894	12708	18.1	25	1F	2 C		2.26				F
	22	1912	1935	1920	N08	W59	.869	12708	18.4	23	--F	C	1920	.64	1.26			
	22	1918	1930	1922	N06	W60	.874	12708	18.3	12	1N	4 V		1.86				DE

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	DATE JAN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCNATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
					LAT.	MER. DIST.												
GRP50422	22	1922	1935	1925	N15	W40	.701	12710	19.8	13	--F			.48			3 3 3 3	
	22	1921	1936	1925	N15	W39	.690	12710	19.9	15	-F	0	1925	.21	.28			
	22	1922	1934	1926	N16	W39	.695	12710	19.9	12	-F	2		.72			F	
	22	1923	1934	1923U	N13	W42	.713	12710	19.7	11	-N	4		.50			F	
GRP50423	22	2024	2032	2026	N08	W63	.900	19325	18.1	8	--F			.59			3 3 3 4	
	22	2022	2031	2025	N07	W63	.899	19325	18.1	9	-F	0	2025	.54	1.18			
	22	2024E	2034	2026	N09	W62	.894	19325	18.2	100	-N	2		.91			F	
	22	2025	2030	2027	N07	W64	.906	19325	18.1	5	-F	1	2027	.31				
	22	2106	2117	NO FLARE PATROL														
424 PALE	22	2117E	2125	2118U	N08	W62	.893	19325	18.2	80	-N	2		.83			OE	3
426 PALE	22	2328E	2344D	2329U	S17	W50	.769	19326	19.2	160	--F	2		.26			F	2
427 PALE	22	2328E	2344D	2337U	S17	W50	.769	19326	19.2	160	--F	2		.93			F	2
429 PALE	23	0045E	0053	0049U	S14	W53	.797	19326	19.1	80	--F	2		.55			F	3
GRP50430	23	0055	0114	0102	S15	W53	.798	19326	19.1	19	--F			.43			2 2 2 3	
	23	0055	0115	0102	S14	W53	.797	19326	19.1	20	-F	2		.55			F	
	23	0102E	0113		S16	W53	.799	19326	19.1	110	-F			.31				
GRP50431	23	0109	0117	0111	N08	W65	.915	19325	18.2	8	--F			.43			2 2 2 3	
	23	0109	0114	0111	N08	W64	.908	19325	18.2	5	-F	2		.55				
	23	0109E	0120		N07	W66	.920	19325	18.1	110	-F			.31				
GRP50435	23	1003	1037	1007	N09	W73	.962	12708	17.9	34	-N			.34			3 3 3 6	
	23	0959	1028	1005	N07	W69	.939	12708	18.2	29	-N			.41				
	23	1001	1018	1005	N07	W72	.956	12708	18.0	17	-N	3		.33			OE	
	23	1001	1018	1010	N07	W72	.956	12708	18.0	17	-F	3		.83			OE	
	23	1010	1016	1012	N12	W78	.983	12708	17.6	6	-F	3		.28			F	
	23	1028	1037	1031	N07	W72	.956	12708	18.0	9	-F	3		.33			OE	
	23	2044	2102	2053U	N17	W55	.855	12710	19.7	18	-F	2		.45			F	3
438 MONT	24	1200	1203	1201	S15	W90	1.000	19314	17.8	3	--F		1201	.10				2
439 RAMY	24	1905	1912D		S15	W90	1.000	19314	18.0	70	-N	4						5
440 MEUD	25	1159	1210	1200	S17	W90	1.000	19326	18.7	11	1N		1200	1.03				2
	25	1348	1413	NO FLARE PATROL														
	25	1435	1455	NO FLARE PATROL														
	25	1458	1517	NO FLARE PATROL														
	25	1520	1527	NO FLARE PATROL														
	25	2028	2034	NO FLARE PATROL														
	25	2302	2318	NO FLARE PATROL														
GRP50441	26	1026	1040	1029	S17	W01	.199	12720	26.4	14	--F			.26			2 2 2 4	
	26	1025	1045	1028	S17	E00	.199	12720	26.4	20	-F			.41				
	26	1026	1035	1029	S17	W01	.199	12720	26.4	9	-F		1029	.10				
GRP50442	26	1105	1121	1108	S17	W01	.199	12720	26.4	16	--F			.31			2 2 2 3	
	26	1104	1116	1106	S17	W01	.199	12720	26.4	12	-N		1106	.21			E	
	26	1106	1125	1109	S17	E00	.199	12720	26.5	19	-F			.41				
GRP50443	26	1616	1627	1619	S16	W05	.200	12720	26.3	11	--F			.21			2 2 2 3	
	26	1615	1628	1618	S16	W04	.194	12720	26.4	13	-F		1618	.21	.21			
	26	1616	1626	1619	S16	W05	.200	12720	26.3	10	-F	3		.21			OE	
	26	2303	2305	NO FLARE PATROL														
	27	1542	1613	NO FLARE PATROL														
	27	2327	2330	NO FLARE PATROL														
	28	1800	1812	NO FLARE PATROL														
29	0615	0648	NO FLARE PATROL															
29	0745	0746	NO FLARE PATROL															

H α SOLAR FLARES

Confirmed

JANUARY 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
	29	0835	0845	NO FLARE	PATROL													
	29	0850	0854	NO FLARE	PATROL													
	29	1231	1238	NO FLARE	PATROL													
	29	1450	1451	NO FLARE	PATROL													
	29	1511	1516	NO FLARE	PATROL													
	29	1522	1531	NO FLARE	PATROL													
	29	1544	1547	NO FLARE	PATROL													
	29	1551	1558	NO FLARE	PATROL													
	29	1602	1611	NO FLARE	PATROL													
	29	1614	1631	NO FLARE	PATROL													
	30	1531	1541	NO FLARE	PATROL													
	30	1544	1550	NO FLARE	PATROL													
	30	1645	1733	NO FLARE	PATROL													
	30	1919	1952	NO FLARE	PATROL													
	31	1130	1138	NO FLARE	PATROL													
	31	1420	1427	NO FLARE	PATROL													
445 HUAN	31	1652	1708	1658	S05	E48	.741	19329	4.3	16	--F	2	C	1658	.31	.46		E 2
446 PALE	31	2133	21410	21380	S05	E45	.705	12723	4.3	80	1F	2	C		1.44			F 2

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
740101	0.00	13.0	740112	27.47	23.8	740122	42.86	23.6
740102	5.43	23.1	740113	14.69	24.0	740123	1.68	24.0
740103	0.00	23.7	740114	1.40	19.2	740124	0.84	24.0
740104	0.00	23.9	740115	15.30	21.4	740125	5.74	22.5
740105	0.00	19.7	740116	5.60	23.9	740126	0.00	24.0
740106	1.73	21.2	740117	0.00	23.3	740127	0.00	23.4
740107	0.00	20.7	740118	5.84	21.4	740128	0.00	23.8
740108	0.00	20.5	740119	5.45	22.5	740129	0.00	22.2
740110	11.18	23.6	740120	0.00	24.0	740130	0.00	22.4
740111	18.26	23.6	740121	2.03	23.5	740131	10.94	23.8

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

10
Jan 74

H α SOLAR FLARES

Unconfirmed

JANUARY 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
320 MANI	02	0520E	0530D	0525	S15	E08	.246 12684	2.8	100	-N	2		0525	.10	.11			H 3
321 ABST	02	0752E	0818D	0758	S15	E06	.230 12684	2.8	260	-F	P		0758	.90	.90			DJ 4
322 CANR	02	1029E	1040	1029	N13	W08	.309 12683	1.8	110	-F	V		1029	.21	.20			6
325 ABST	03	0715	0750	0722	S14	W11	.264 12684	2.5	35	-F	P		0722	.90	.90			D 4
326 ABST	03	0744	0750	0746	S15	W08	.245 12684	2.7	6	-F	C		0746	.90	.90			D 5
330 ABST	05	0646	0655	0648	S14	W36	.602 12684	2.6	9	-F	C		0648	.90	1.10			D 5
334 CATA	08	1220E	1220D	1220	S06	E78	.977 12694	14.4		1F			1220	.58			(135)	4
338 CRON	10	0311E	0318		S18	E90	1.000 19313	16.9	70	-N	V							6
339 CANR	10	0912	0925	0915	N09	W10	.282 19311	9.6	13	-F	V		0915	.62	.60			3
340 CANR	10	0930	0934D	0934	S17	E88	.999 19313	17.0	40	-N	V		0934	.41				3
344 MCMA	10	1455E	1457D		N12	E48	.770 12700	14.2	20	-N	C		1455	.52	.80			E 4
345 BOUL	10	1957E	2023	2010D	S13	E51	.779 19312	14.7	260	-F	C		2010	.75	1.20			4
346 MITK	11	0102	0116	0103	S08	E45	.706 19312	14.4	14	-N	C		0103	.52	.70			E 5
351 MONT	12	0918	0933	0923	S19	E80	.982 19315	18.4	15	-F	C		0923	.10				7
359 CANR	13	1625	1634	1630	S16	E62	.882 19315	18.3	9	-F	V		1630	.41	.80			3
361 VORO	14	0203	0212	0204	S10	E84	.993 19317	20.4	9	1F	C		0204	.93	4.47		59	EJG 5
367 MANI	15	0212	0218	0214	N04	W78	.980 19311	9.2	6	-F	2		0214	.31	.78			4
368 MANI	15	0239	0252	0243	N04	W78	.980 19311	9.3	13	-N	2		0243	.41	1.04			4
369 MANI	15	0619E	0632	0621D	N07	W84	.996 19311	9.0	130	-N	2		0621	.52	1.47			4
GRP50373	15	0828	0900	0840	N07	W86	.998 12686	8.9	32	-N				.52				1 1 1 6
CANR	15	0828E	0900D	0840	N07	W88	1.000 12686	8.8	320	-N	V		0840	.52	1.90			
CANR	15	0857	0900D	0859	N07	W85	.997 12686	9.0	30	-N	V		0859	.31	1.10			
374 CANR	15	0922	0932	0924	N10	W20	.417 19318	13.9	10	-F	V		0924	.31	.40			5
377 CANR	15	1340	1355	1347	N10	W11	.312 12700	14.7	15	-F	V		1347	.41	.40			3
380 TEHR	16	0932	1005	0942	N13	W42	.711 19318	13.2	33	-F	2	C		.91				F 6
381 MONT	16	1037	1123	1053	S13	E51	.777 19321	20.3	46	-N	C		1053	.21				O 6
382 MONT	16	1049	1054	1052	S13	E49	.755 19321	20.1	5	-N	C		1052	.10				O 6
385 MANI	17	0344	0351D	0349	N12	W50	.793 19318	13.4	70	-F	2		0349	.31	.50			5
386 ATHN	17	1030	1041	1033	S19	W07	.272 19313	16.9	11	-F	3	C		.33				DE 7
388 ARCE	18	1100E	1115D		S13	W47	.732 19312	14.9	150	-N	C		1100	.40	.60			T 4
396 VORO	20	0004	0014	0007	N03	W23	.412 19325	18.3	10	-B	C		0007	.28	.30		66	EJ 4
397 MANI	20	0330	0400D	0335	N07	W26	.479 19325	18.2	300	-N	2		0335	.41	.47			F 5
398 MANI	20	0647E	0717	0658	N06	W27	.487 19325	18.3	300	-N	2		0658	.52	.59			F 5
400 WEND	20	1332E	1420		N06	W29	.515 12708	18.4	480	1N	V			5.16				B 3
403 MONT	21	0945	0958	0949	N07	W41	.678 19325	18.3	13	-F	C		0949	.10				5
409 CANR	22	0831E	0900D	0834	S16	W44	.701 19326	19.1	290	-N	V		0834	.52	.70			5
411 ATHN	22	0919E	0930D	0919D	N07	W56	.841 19325	18.2	110	-N	1	V		.66				DE 6
412 MONT	22	1053	1100	1054	S16	W44	.701 19326	19.2	7	-N	C		1054	.10				D 5
413 CANR	22	1100	1116	1106	N07	W57	.850 19325	18.2	16	-F	V		1106	.62	1.10			6
416 CANR	22	1450E	1458D	1452	N26	W40	.763 12710	19.6	80	-N	V		1452	.31	.50			4
417 CANR	22	1450E	1505	1453	N07	W60	.876 19325	18.1	150	-F	V		1453	.62	1.20			4

H α SOLAR FLARES

Unconfirmed

JANUARY 1974

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
418 CANR	22	1450E	1457	1453	S16	W50	.768 19315	18.9	70	-N	V	1453	.31	.60			4
425 PALE	22	2228E	2246	2230U	S16	W50	.768 19326	19.2	180	-F	2 V		.31				F 3
428 PALE	22	2340E	2344O	2341U	N08	W62	.893 19325	18.3	40	-F	2 V		.46				DE 3
432 PALE	23	0144E	0158	0146	N08	W64	.908 19325	18.3	140	-F	2 V		.41				DE 3
433 PALE	23	0207	0219	0209	S17	W55	.819 19326	19.0	12	-F	2 V		.21				DE 4
434 MITK	23	0518	0531	0522	N06	W71	.950 19325	17.9	13	-N	C	0522	.72				D 4
437 MITK	24	0132E	0156	0136	S16	W68	.998 12714	17.5	240	1N	C	0136	1.13				H 4
444 ABST	31	0756	0856	0802	N07	E74	.966 12725	5.9	60	-F	C	0802	.72				DGK 5

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 assymetry 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.