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Solar - Geophysical Data

NO. 366 FEBRUARY 1975

Part II (Comprehensive Reports)

DATA FOR
AUGUST 1974
JULY 1974
& MISCELLANEA

**NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO**

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SOLAR - GEOPHYSICAL DATA

No. 366

Issued in two parts

Hope I. Leighton, Editor

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Solar - Terrestrial Data Services Division

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Aug 74

H α SOLAR FLARES

Confirmed

AUGUST 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
857 PALE	01	0012	0041	0014	S06	H67	.927	13084	24.0	29	--F	2	C		.21				3
	01	0055	0058	NO FLARE PATROL															
	01	0419	0445	NO FLARE PATROL															
GRP60861	01	2011	2132	2022	S09	H38	.652	13095	30.0	81	1N				1.69				3 3 3 3
HUAN	01	2011	2043	2019	S09	H38	.652	13095	27.0	32	-N	1	C	2019	.36	.48			E
PALE	01	2011	2138	2021	S08	H38	.647	13095	27.0	87	1B	2	C		2.25				DE U
BOUL	01	2023E	2125D	2026	S09	H38	.652	13095	27.0	62D	1N		C	2026	2.46	3.12			
GRP60862	01	2243	2313	2247	S09	H45	.734	13095	29.6	30	-B				1.05				2 2 2 4
BOUL	01	2243E	2327	2246	S08	H44	.719	13095	26.6	44D	-N		C	2246	.96	1.34			OE
PALE	01	2245E	2259	2247U	S10	H45	.737	13095	26.6	14D	-B	3	C		1.13				
863 BOUL	02	0011	0025	0015	S11	H34	.613	13095	27.5	14	--F		C	0015	.11	.13			3
864 PALE	02	0014E	0027	0015U	S16	H29	.589	13101	27.8	13D	--F	2	C		.19				2
GRP60865	02	0626	0651	0634	S12	H47	.766	13095	29.7	25	-N				.67				3 2 2 4
BUCA	02	0625	0700		S09	H47	.756	13095	26.7	35	-N		C	0627	.66	.90			
ATHN	02	0627	0642	0629	S14	H47	.774	13095	26.7	15	-N	1		0629	.68	.90			
ABST	02	0636E	0645D	0639	S09	H50	.788	13095	26.5	9D	-N		P	0639	.90	1.40			DZ
ABST	02	0638	0655	0642	S11	H51	.804	13095	26.5	17	-F		C	0642	.90	1.40			O
GRP60866	02	0950	1008	(0953)	S09	H49	.778	13095	29.7	18	--F				.92				3 3 3 7
MONT	02	0945	0951	0947	S09	H53	.818	13095	26.4	6	-F		C	0947	.41				
MONT	02	0951	1005	0957	S10	H50	.791	13095	26.7	14	-F		C	0957	.41				
BUCA	02	0955	1010		S09	H46	.745	13095	27.0	15	-N		P	0955	.66	.90			
KHAR	02	0958E	1004D		S10	H50	.791	13095	26.7	6D	1F		C	0958	1.70	2.80			
	02	2035	2125	NO FLARE PATROL															
	02	2255	2304	NO FLARE PATROL															
	02	2307	2316	NO FLARE PATROL															
	02	2331	0014	NO FLARE PATROL															
868 VORO	03	0219	0229	0220	N13	E61	.870	13119	7.7	10	-B		C	0220	.65	1.60		66	0 3
869 TEHR	03	0220	0232	0222	S05	H83	.994	13084	24.9	12	-N	2	C		.64				DE 2
GRP60872	03	1801	1827	1809	S10	H70	.948	13095	29.5	26	--F				.37				3 3 2 3
RAMY	03	1755E	1830D	1808U	S09	H70	.947	13095	26.5	35D	-N	4	C		.31				DE
BOUL	03	1800	1835	1808	S10	H69	.943	13095	26.6	35	-F		C	1808	.43	1.11			
HUAN	03	1809	1815	1810	S10	H72	.959	13095	26.4	6	-F	1	C						
873 BOUL	03	1918	1957	1926	S12	H74	.969	13095	26.3	39	--F		C	1926	.21	.63			3
874 BOUL	03	2019	2025	2020	S11	H70	.949	13095	26.6	6	--F		C	2020	.11	.29			3
GRP60877	04	0643	0703	0649	S10	H82	.993	13095	29.1	20	1N				.77				3 3 3 6
ABST	04	0640E	0654D	0648	S11	H85	.998	13095	25.9	14D	1N		P	0648	.90				EGJ
CATA	04	0645	0705	0650	S09	H80	.988	13095	26.3	20	1B	3		0650	.87			(269)	
BUCA	04	0645	0700		S09	H80	.988	13095	26.3	15	-N		C	0650	.55				D
GRP60880	04	1241	1249	1243	S10	H89	1.000	13095	28.9	8	--F				.31				3 3 1 6
MCMA	04	1239	1251	1242	S10	H90	1.000	13095	25.8	12	-F		C	1242					OE
RAMY	04	1240E	1245D		S10	H90	1.000	13095	25.8	5D	-N	2	C						
HUAN	04	1243	1246	1243	S10	H88	1.000	13095	25.9	3	-F	1	C	1243	.31				
882 MCMA	04	1448E	1450D		S10	H90	1.000	13095	25.9	2D	--F		C	1450					3
883 HUAN	04	1702	1717	1703U	S09	H88	1.000	13095	26.1	15	--F	1	C						3
	04	2147	2155	NO FLARE PATROL															
	04	2205	2214	NO FLARE PATROL															
	04	2300	2311	NO FLARE PATROL															
885 MITK	05	0043E	0107		S08	E90	1.000	13124	11.8	24D	--F		C	0043	.52				3
GRP60886	05	0644	0720	0650	S07	E85	.997	13124	11.7	36	--F				.63				2 1 1 5
ABST	05	0644	0720	0650	S07	E85	.997	13124	11.7	36	-F		C	0650	.63				OG
MONT	05	0701	0713	0705	S07	E87	.999	13124	11.8	12	-F		C	0705	.21				
888 MONT	05	0803	0809	0806	S09	H90	1.000	13095	26.6	6	--F		C	0806	.21				4

H α SOLAR FLARES

Confirmed

AUGUST 1974

AUGUST 1974																				
OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1974 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %	
	05	2201	2209	NO FLARE PATROL																
	05	2210	2211	NO FLARE PATROL																
B92 BOUL	06	0004	0019	0011	S06	E69	.939	13124	11.2	15	--F	C	0011	.32	.84				2	
	06	0035	0039	NO FLARE PATROL																
GRP60893	06	0518	0532	0522	S06	E68	.933	13124	11.3	14	1N			1.01				3 3 3 4		
ABST	06	0516	05350	0520	S05	E68	.932	13124	11.3	190	1B	P	0520	1.18			984	FJ		
MITK	06	0519	05310	0523	S07	E69	.940	13124	11.4	120	1N	C	0523	.82				E		
ATHN	06	0520	0531	0522	S06	E67	.927	13124	11.2	11	-N	1	0522	1.02	1.67					
GRP60894	06	0917	0934	0919	S14	E56	.858	13124	10.6	17	--F			.26				2 2 2 6		
TEHR	06	0917	0933	0919	S13	E55	.847	13124	10.5	16	-F	4	C	.19				DE		
ARCE	06	0920	09350		S14	E57	.866	13124	10.7	150	-F	C	0925	.33	.70					
GRP60897	06	1932	1947	1938	S18	E77	.984	13127	12.6	15	--F			.32				4 4 3 4		
BOUL	06	1929	1950	1939	S17	E73	.969	13127	12.3	21	-N	C	1939	.21	.62					
RAMY	06	1932	1946	1938	S16	E76	.979	13127	12.5	14	-F	2	C	.28				DE		
PALE	06	1933E	1946	1934	S19	E78	.987	13127	12.7	130	-N	2	C	.46				DE		
MCMA	06	1933	1945	1939	S19	E80	.992	13127	12.8	12	-F	C	1939					D		
B98 BOUL	07	0024	0038	0028	S13	E80	.990	13127	13.0	14	--F	C	0028	.21	.72			3		
	07	0120	0132	NO FLARE PATROL																
	07	0200	0212	NO FLARE PATROL																
B99 TEHR	07	0536	0550	0539	S11	E56	.851	13124	11.4	14	-N	4	C	.64				F 4		
GRP60901	See Unconfirmed list																			
GRP60902	07	1736	1744	1739	S08	E38	.649	13124	10.6	8	--F			.39				3 3 2 4		
RAMY	07	1734	1743	1738	S07	E38	.645	13124	10.6	9	-F	3	C	.46				DE		
BOUL	07	1737	1746	1739	S08	E38	.649	13124	10.6	9	-F	V	1739		.90					
MCMA	07	1739E	1744		S09	E37	.641	13124	10.5	50	-F	C	1739	.31	.40			E		
	07	1912	1923	NO FLARE PATROL																
	07	1950	2002	NO FLARE PATROL																
	07	2011	2025	NO FLARE PATROL																
	07	2026	2117	NO FLARE PATROL																
GRP60903	08	0717	0733	0722	S18	E59	.891	13127	12.7	16	--F			.46				2 2 2 6		
TEHR	08	0717	0725	0718	S20	E58	.889	13127	12.7	8	-F	2	C	.28				DE		
UPIC	08	0720E	0740U	0725	S16	E60	.894	13127	12.8	200	-F	P	0725	.63						
GRP60905	08	1734	1757	1738	S06	E55	.831	13128	12.9	23	--F			.44				3 3 3 3		
RAMY	08	1734	17520	1738	S06	E55	.831	13128	12.9	180	-F	4	C	.74				DE		
BOUL	08	1734	1743	1738U	S05	E54	.820	13128	12.8	9	-F	C	1738	.32	.55					
MCMA	08	1735E	1817		S07	E57	.852	13128	13.0	420	-N	C	1745	.26	.50			D		
	08	1841	1850	NO FLARE PATROL																
	08	1911	1932	NO FLARE PATROL																
	08	2045	2210	NO FLARE PATROL																
	08	2257	2305	NO FLARE PATROL																
GRP60908	09	0752	0800	0755	S08	E16	.365	13124	10.5	8	--N			.73				3 3 3 4		
CATA	09	0750	0800	0755	S08	E15	.353	13124	10.5	10	-N	3		.58	.62		(195)			
TEHR	09	0751	07570	0755	S08	E17	.378	13124	10.6	60	-N	3	C	.73				U H		
BUCA	09	0755	0800		S09	E16	.376	13124	10.5	5	-N	C	0756	.88	1.10					
GRP60909	09	0839	0848	0840	S07	E15	.342	13124	10.5	9	--N			.81				3 3 2 7		
TEHR	09	0837	0846	0840	S06	E17	.358	13124	10.6	9	-N	3	C	.45				U		
CATA	09	0840	0850	0840	S08	E14	.342	13124	10.4	10	-N	3		1.16	1.23		(186)			
HERS	09	0841E	08410	0841U	S07	E14	.330	13124	10.4		-N	S						B		
GRP60910	09	0939	1005	0946	S06	E44	.715	13128	12.7	26	-N			1.66				6 6 6 6		
ARCE	09	0933E	10000		S05	E42	.687	13128	12.5	270	-F	C	0953	1.33	1.80			T		
ATHN	09	0934	1002	0943	S08	E44	.721	13128	12.7	28	-N	1		1.55	1.81					
TEHR	09	0940	1001	0945	S06	E44	.715	13128	12.7	21	-N	3	C	1.09				F		
KHAR	09	0940E	10070	0943	S05	E42	.687	13128	12.6	270	1N	C	0943	3.40	4.80			EL		
KHAR	09	0940E	10070	0943	S06	E45	.726	13128	12.8	270	1N	C	0943	3.40	4.80			EL		
MONT	09	0943E	1000	0947	S05	E45	.723	13128	12.8	170	-N	C	0947	1.13				E		
CATA	09	0945	1020	0950	S06	E44	.715	13128	12.7	35	1B	3		1.44	2.07		(257)			

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	DATE 1974 AUG	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hd	MAX. INT. %	
					LAT.	MER. DIST.												
GRP60911	09	1025	1051	1035	S12	E16	.411	13124	10.6	26	--N			.75			2 2 2 6	
CATA	09	1025	1055	1035	S12	E16	.411	13124	10.6	30	-N	3	1035	.87	.95	(166)		
MONT	09	1025	1047	1035	S12	E16	.411	13124	10.6	22	-N		1035	.62				
GRP60912	09	1929	1940	1934	S11	E09	.334	13124	10.5	11	--F			.35			2 2 2 3	
BOUL	09	1928	1940	1935	S11	E08	.326	13124	10.4	12	-F	C	1935	.43	.43			
PALE	09	1930	1940	1933	S11	E09	.334	13124	10.5	10	-F	3		.26			H	
	09	2022	2106		NO FLARE PATROL													
	09	2209	2218		NO FLARE PATROL													
GRP60913	09	2338	0002	2350	S07	E36	.620	13128	12.7	24	-F			.93			2 2 2 3	
MITK	09	2338	2344	2339	S07	E36	.620	13128	12.7	6	-N	C	2339	.82	1.00		OG	
PALE	09	2341E	23460	2346U	S06	E36	.615	13128	12.7	50	-F	2		.83			H	
MITK	09	2346	0002	2353	S07	E36	.620	13128	12.7	16	-N	C	2353	1.03	1.30		OG	
GRP60914	10	0850	0924	0900	S10	E41	.695	13136	13.4	34	--F			1.17			3 3 3 5	
ARCE	10	0850E	09140		S09	E41	.690	13136	13.4	240	-N	C	0900	1.13	1.60			
ATHN	10	0853E	0918	0854	S10	E40	.683	13136	13.4	250	-F	1	0854	.68	.76			
KHAR	10	0905E	09300	0905	S11	E42	.710	13136	13.5	250	1F	C	0905	1.70	2.40		G	
GRP60915	10	1309	1320	1313	S10	W02	.284	13124	10.4	11	--N			.75			3 3 3 4	
RAMY	10	1307	1321	1313U	S11	W02	.300	13124	10.4	14	-N	3		.56			DE	
BOUL	10	1310	1322	1313	S10	W02	.284	13124	10.4	12	-N	C	1312	1.18	1.18			
ATHN	10	1312E	1318	1313	S10	W01	.282	13124	10.5	60	-F	1	1313	.52	.50			
GRP60917	10	1748	1804	1756	S05	E08	.240	13124	11.3	16	--F			.74			4 4 4 4	
BOUL	10	1746	1810	1800	S04	E08	.226	13124	11.3	24	-F	C	1800	.86	.87			
RAMY	10	1749	1757	1755	S05	E08	.240	13124	11.3	8	-F	3		.65			DE	
PALE	10	1751E	1805	1753	S06	E08	.254	13124	11.3	140	-F	2		.83			DE	
HUAN	10	1754E	17540		S05	E07	.231	13124	11.3		-F	1	1754	.62	.64		E	
	10	1923	1936		NO FLARE PATROL													
919 PALE	10	2033E	20360	2033U	S07	E35	.607	13136	13.5	30	--F	1		.72			F 1	
	10	2109	2119		NO FLARE PATROL													
	10	2200	2211		NO FLARE PATROL													
	10	2221	2238		NO FLARE PATROL													
920 PALE	10	2332E	23350	2332U	S07	E24	.461	13128	12.8	30	--N	2		.72			F 2	
	11	2037	2049		NO FLARE PATROL													
	11	2057	2204		NO FLARE PATROL													
	11	2301	2307		NO FLARE PATROL													
GRP60924	12	0103	0145	0112	S06	E08	.256	13152	12.6	42	--F			.94			2 2 2 3	
BOUL	12	0102	01450	0111	S05	E08	.242	13152	12.6	430	-F	C	0111	.75	.76			
MITK	12	0104	01190	0112	S06	E07	.247	13152	12.6	150	-N	C	0112	1.13	1.20		EG	
	12	0214	0224		NO FLARE PATROL													
	12	0237	0248		NO FLARE PATROL													
	12	2158	2159		NO FLARE PATROL													
	12	2300	2307		NO FLARE PATROL													
	13	1851	1858		NO FLARE PATROL													
	13	2005	2010		NO FLARE PATROL													
GRP60933	14	1306	1318	1309	S06	W14	.322	13136	13.5	12	--F			.72			4 4 4 6	
MCHA	14	1305	1320	1309	S06	W15	.335	13136	13.4	15	-N	C	1309	.62	.60		E	
BOUL	14	1305	1320	1309	S06	W14	.322	13136	13.5	15	-F	C	1309	.86	.88			
ATHN	14	1306	1316	1310	S07	W13	.322	13136	13.6	10	-F	1	1310	.68	.64			
MEUD	14	1306	1316		S06	W14	.322	13136	13.5	10	-F	C	1308	.72	.70		E	
	14	1716	1719		NO FLARE PATROL													
934 MCHA	14	1731E	17500		S06	W17	.360	13136	13.5	190	--N	C	1738	.52	.50		E 2	
	14	2152	2217		NO FLARE PATROL													

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	DATE 1974 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP60937	15	1412	1421	1414	S03	W32	.550	13136	13.2	9	--F		.53				3 3 2 6
ZURI	15	1411	1421	1413	S03	W32	.550	13136	13.2	10	-N	C	1413	.53	.60		E
MEUD	15	1413	1421	1414	S04	W32	.554	13136	13.2	8	-F	C	1414	.52	.60		
HUAN	15	1413	1422	1414	S03	W33	.564	13136	13.1	9	-F	2 C					
941 PALE	15	2053E	2056D	2053U	S13	E20	.468	13148	17.4	3D	--F	2 C		.27			DE 3
	15	2238	2248														
	15	2251	2328														
	16	0020	0027														
	16	0113	0120														
	16	0134	0143														
	16	0200	0219														
	16	0234	0241														
944 TEHR	16	0742E	0758D	0751	S18	W52	.838	13127	12.4	16D	--F	3 C		.09			4
GRP60948	16	1106	1123	1110	S12	E45	.749	13175	19.8	17	-N		.96				3 3 2 7
UPIC	16	1100	1115	1105	S12	E46	.759	13175	19.9	15	-N	P	1105	1.05			
CATA	16	1105	1130	1115	S12	E44	.738	13175	19.8	25	-N	3	1115	.87	1.28	(195)	
WEND	16	1114	1124		S12	E44	.738	13175	19.8	18	-N						
GRP60951	16	1304	1318	1307	N10	W16	.279	13139	15.3	14	--N		.31				3 3 3 7
ZURI	16	1304	1314	1306	N10	W15	.262	13139	15.4	10	-N	C	1306	.53	.50		
TEHR	16	1305E	1323D	1307U	N10	W17	.295	13139	15.3	18D	-N	3 C		.19			DE
MCMA	16	1305E	1318	1308	N10	W15	.262	13139	15.4	13D	-N	C	1308	.21	.20		OB
GRP60952	16	1348	1404	1355	N08	W30	.497	13141	14.3	16	--N		.38				4 4 4 8
TEHR	16	1342E	1400D	1352	N08	W32	.526	13141	14.2	18D	-N	3 C		.19			DE
RAMY	16	1342	1405	1353	N07	W33	.541	13141	14.1	23	-N	4 C		.28			DE H
ZURI	16	1352	1400	1356	N10	W25	.422	13141	14.7	8	-N	C	1356	.53	.60		
MCMA	16	1355	1410D	1357	N08	W28	.466	13141	14.5	15D	-N	C	1357	.52	.50		E
GRP60953	16	1423	1502	1434	N08	W26	.435	13141	14.6	39	--N		.96				6 5 5 9
MCMA	16	1415E	1622D		N08	W30	.497	13141	14.3	127D	-B	C	1431	.83	.90		EHK
ZURI	16	1418	1502	1430	N08	W28	.466	13141	14.5	44	-N	C	1430	.63	.70		
BOUL	16	1418	1509	1428	N09	W28	.467	13141	14.5	51	-F	C	1428	.43	.49		
LOCA	16	1430E	1455	1430	N09	W26	.436	13141	14.7	25D	-N	V	1430	.84	.90		
HURB	16	1432E	1454D	1432	N09	W23	.389	13141	14.9	22D	1N		2.05				
UPIC	16	1445	1500U	1450U	N08	W29	.482	13141	14.4	15D	-N	P	1450	.63			
BOUL	16	1520	1555D	1529	N07	W22	.372	13141	15.0	35D	-F	C	1539	.21	.23		
GRP60954	16	1621	1634	1624	S17	W45	.770	13147	13.3	13	--F		.65				3 3 3 6
RAMY	16	1621	1635	1623	S17	W45	.770	13147	13.3	14	-F	4 C		.46			DE
BOUL	16	1621	1640	1624	S16	W44	.756	13147	13.4	19	-F	C	1624	.75	1.05		
ZURI	16	1622	1626	1624	S17	W45	.770	13147	13.3	4	-F	C	1624	.73	1.10		
956 BOUL	16	1902	1938	1910	N09	W26	.436	13141	14.8	36	--F	C	1910	.96	1.07		3
GRP60957	16	1951	2006	1959	S17	W44	.761	13147	13.5	15	--F		.20				2 2 2 3
BOUL	16	1947	2007	1959	S17	W43	.751	13147	13.6	20	-F	C	1959	.21	.29		
PALE	16	1954	2004	1958	S17	W44	.761	13147	13.5	10	-N	3 C		.19			
GRP60958	16	2019	2027	2022	N11	W29	.484	13141	14.7	8	--F		.35				2 2 2 4
PALE	16	2019E	2025	2022U	N11	W29	.484	13141	14.7	6D	-N	3 C		.27			F
BOUL	16	2019	2028	2022	N10	W28	.468	13141	14.7	9	-F	C	2022	.43	.48		
GRP60960	16	2110	2114	2112	S17	W45	.770	13147	13.5	4	--F		.24				2 2 2 3
BOUL	16	2110	2114	2112	S17	W44	.761	13147	13.6	4	-F	C	2112	.21	.30		
PALE	16	2111E	2114	2111U	S17	W45	.770	13147	13.5	3D	-N	3 C		.27			DE
GRP60961	16	2200	2224	2206	S06	W50	.782	13136	13.2	24	--F		.84				2 2 2 4
BOUL	16	2200	2237	2207	S07	W49	.775	13136	13.2	37	-F	C	2207	.64	.97		
PALE	16	2202E	2211	2204	S05	W50	.780	13136	13.2	9D	-F	3 V		1.03			DE
GRP60963	17	0433	0454	0438	S04	W53	.809	13136	13.2	21	--N		.58				2 2 2 4
PALE	17	0433E	0444D	0437U	S04	W53	.809	13136	13.2	11D	-F	1 V		.83			DE
TEHR	17	0436E	0454	0438	S04	W53	.809	13136	13.2	18D	-B	4 C		.33			DE
GRP60966	17	0834	0850	0835	N08	W36	.584	13141	14.7	16	--B		.66				3 3 3 4
TEHR	17	0833	0908	0836	N07	W36	.584	13141	14.7	35	-B	4 C		.33			DE
ARCE	17	0834	0837	0835	N09	W35	.570	13141	14.7	3	-B	C	0835	1.07	1.30		D
CATA	17	0835E	0845	0835	N09	W36	.584	13141	14.7	10D	-B	3	0835	.58	.71	(372)	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1974 AUG	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP60967 KHAR UPIG	17 17 17	0906 0906E 1220E	1227 1227D 1300	(0913) 1235	S18 S18 S19	W53 W53 W53	.847 .847 .850	13147 13147 13147	13.4 13.4 13.5	201 2010 400	1F 1F 1N	0913 1235	1.70 1.70 1.26				2 1 1 8 S
GRP60969 TEHR KHAR	17 17 17	1157 1157 1203E	1227 1215D 1227D	1202 1201 1203	N08 N07 N08	W38 W37 W39	.611 .598 .625	13141 13141 13141	14.6 14.7 14.6	30 180 240	-B -B 1N	4 C C	1203	1.61 .37 2.84	3.80		2 2 2 7 DE
GRP60975 MCMA BOUL MEUD	17 17 17 17	1715 1715 1717 1727E	1753 1800D 1805 1735	1726 1726 1726	S18 S18 S18 S19	W56 W58 W54 W55	.871 .886 .855 .866	13147 13147 13147 13147	13.5 13.4 13.7 13.6	37 450 48 80	--F -N -F -F	C C C C	1726 1726 1727	.45 .41 .54 .41	.80 .90 .80		3 3 3 4 D
GRP60977 PALE RAHY	17 17 17	1827 1827E 1827	1837 1837 1829	1829 1828U 1829	S06 S06 S06	W61 W60 W61	.884 .876 .884	13136 13136 13136	13.2 13.3 13.2	10 100 10	--F -F -F	3 V 4 C		.50 .72 .28			2 2 2 5 DE
978 PALE	17	1934	1942	1936	S03	W61	.880	13136	13.2	8	--F	2 C		.36			3
GRP60979 RAHY PALE	17 17 17	1952 1952 2003E	2009 2010 2007	2000 1957 2003U	S04 S04 S03	W63 W63 W62	.897 .897 .888	13136 13136 13136	13.1 13.1 13.2	17 18 40	--F -F -N	4 C 2 C		.46 .46 .45			2 2 2 2 DE F
980 TEHR	18	0441	0451	0445	N09	W47	.726	13141	14.7	10	--F	4 C		.64			DE 3
GRP60983 TEHR KHAR	18 18 18	0943 0943 0945E	1015 1015 1009D	0951 0952 0949	N09 N09 N08	W50 W48 W51	.761 .738 .772	13141 13141 13141	14.7 14.8 14.6	32 32 240	--F -F -F	4 C C	0949	.86 .58 1.13	1.80		2 2 2 6 F
GRP60985 BOUL PALE	18 18 18	1729 1723 1735	1757 1756 1758	1735 1735 1735U	S18 S18 S18	W77 W76 W78	.984 .981 .987	13127 13127 13127	13.0 13.0 12.9	28 33 23	--F -F -N	2 C 2 C	1723	.37 .11 .62	.33		2 2 2 4 DE
GRP60986 BOUL PALE	18 18 18	2257 2257E 2302E	2307 2307 2302D	2300 2258 2302U	S16 S16 S16	E11 E11 E10	.426 .426 .420	13151 13151 13151	19.8 19.8 19.7	10 100	--F -N -F	C C 2 C	2258	.43 .64 .21	.65		2 2 2 4
989 TEHR	19	0827	0840	0835	S11	E85	.998	13170	25.7	13	--F	4 C		.17			4
	19	2203	2214	NO FLARE PATROL													
	19	2224	2231	NO FLARE PATROL													
	20	0003	0004	NO FLARE PATROL													
	20	0007	0016	NO FLARE PATROL													
	20	0034	0049	NO FLARE PATROL													
	20	0100	0118	NO FLARE PATROL													
	20	0205	0220	NO FLARE PATROL													
GRP60995 KHAR MEUD	20 20 20	1010 1010 1019	1027 1027D 1050	1010 1010	N12 N12 N12	W90 W90 W85	1.000 1.000 .994	13141 13141 13141	13.7 13.7 14.1	17 170 31	2F 2F -F	C C C	1022	.31 .31			2 1 1 7 D D
	20	2054	2105	NO FLARE PATROL													
	20	2108	2110	NO FLARE PATROL													
	20	2155	2207	NO FLARE PATROL													
GRP61003 ATHN TEHR ABST	21 21 21 21	0648 0647E 0648 0648E	0657 0654 0701 0656	0650 0649 0650 0651	S11 S11 S10 S11	W21 W20 W20 W22	.462 .450 .440 .474	13175 13175 13175 13175	19.7 19.8 19.8 19.6	9 70 13 80	--F -F -F -N	1 3 C P	0649 0651	.77 .34 .45 1.53	.35	640	3 3 3 6 DE EJ
GRP61004 ABST TEHR	21 21 21	0750 0750E 0750	0803 0801 0804	0754 0753 0754	S11 S11 S10	W22 W24 W20	.474 .498 .440	13175 13175 13175	19.7 19.5 19.8	13 110 14	-N -N -N	P 3 C	0753	1.15 1.84 .45	2.00	700	2 2 2 6 EJ DE
GRP61005 ABST MONT TEHR LOCA ATHN HERS	21 21 21 21 21 21 21	0835 0834E 0835 0835 0837E 0838E 0841E	0859 0840D 0854 0857 0856 0859 0853D	0841 0838 0839 0838 0840 0849 0841U	S11 S12 S11 S10 S11 S11 S12	W22 W24 W23 W20 W24 W21 W22	.474 .507 .486 .440 .498 .462 .483	13175 13175 13175 13175 13175 13175 13175	19.7 19.6 19.6 19.9 19.6 19.8 19.7	24 140 19 22 190 210 120	-N 1N -N -N -N -N -N	P C C 3 V 1 P	0838 0839 0840 0841 0841	1.17 2.07 1.13 1.09 .84 1.02 .89	2.30	836	6 6 6 8 FJ DE E

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	DATE 1974 AUG	START	END	MAX. PHASE	APPROX.			CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
					LAT.	MER. DIST.	CENTRAL DISTANCE												
GRP61006	21	0914	0940	0923	N05	E58	.845 13168	25.7	26	-N				1.38			3 3 3 7		
TEHR	21	0912E	0944	0923	N04	E59	.855 13168	25.8	320	-F	3	C		1.37			DE		
ABST	21	0915	09330	0921	N06	E55	.815 13168	25.5	180	-N		P	0921	.90	1.60	664	OJ		
MONT	21	0916	0935	0925	N04	E59	.855 13168	25.8	19	-N		C	0925	1.86					
GRP61008	21	1018	1028	1021	S11	W23	.486 13175	19.7	10	--F				.38			2 2 2 6		
MONT	21	1017	1022	1019	S11	W24	.498 13175	19.6	5	-F		C	1019	.21			DE		
TEHR	21	1018	1034	1022	S10	W22	.464 13175	19.8	16	-F	2	C		.55					
GRP61009	21	1218	1237	1223	N02	E48	.744 13168	25.1	19	--N				.36			6 6 5 8		
TEHR	21	1215	1235	1222	N04	E50	.764 13168	25.3	20	-F	3	C		.64			F		
RAMY	21	1216E	1245	1225U	N03	E48	.743 13168	25.1	290	-N	3	C		.31			DE		
MCHA	21	1216	1232	1222	N01	E49	.757 13168	25.2	16	-N		C	1222	.21	.30		D		
CATA	21	1220	1240	1220	N02	E48	.744 13168	25.1	20	-N	3		1220	.29	.43	(195)			
WENO	21	1221	1235		N01	E48	.746 13168	25.1	14	-N									
ATHN	21	1222E	1232	1224	N01	E46	.722 13168	25.0	100	-F	1		1224	.34	.41				
GRP61011	21	1302	1334	1308	S11	W26	.522 13175	19.6	32	--F				.64			5 4 4 10		
MCHA	21	1302	1335	1307	S12	W26	.530 13175	19.6	33	-F		C	1307	.52	.60		E		
ZURI	21	1302	1330	1307	S10	W28	.539 13175	19.4	28	-F		C	1307	.85	1.00				
BOUL	21	1303	1342	1312	S12	W26	.530 13175	19.6	39	-F		C	1312	.86	.95				
ATHN	21	1305E	1321	1306	S10	W23	.477 13175	19.8	160	-F	1		1306	.34	.33				
WENO	21	1315	1342		S11	W28	.546 13175	19.5	27	1F		V		3.09					
GRP61012	21	1614	1637	1618	S12	W28	.554 13175	19.6	23	--B				.77			4 4 4 5		
BOUL	21	1613	1657	1618	S11	W26	.522 13175	19.7	44	-N		C	1618	1.39	1.55				
MCHA	21	1614	1630	1617	S12	W28	.554 13175	19.6	16	-B		C	1617	.77	.80				
RAMY	21	1614	1635	1618	S12	W27	.542 13175	19.7	21	-B	3	C		.41			DE		
MEUD	21	1615	1625	1617	S11	W29	.559 13175	19.5	10	-N		C	1617	.52	.60		D		
	21	2220	2253		NO FLARE PATROL														
GRP61014	22	0431	0505	0438	S12	H36	.649 13175	19.5	34	--F				.83			2 2 2 5		
PALE	22	0431	0505	0434U	S12	H36	.649 13175	19.5	34	-F	1	C		.83			F		
MANI	22	0441E	0505	0442	S12	H36	.649 13175	19.5	240	-N	1		0442	.82	1.09				
GRP61015	22	0614	0714	0620	S12	H36	.649 13175	19.6	60	-N				.95			3 3 3 5		
MANI	22	0612	0647	0620	S13	H38	.678 13175	19.4	35	-N	2		0620	.93	1.25		F		
BUCA	22	0615	0740		S12	H37	.661 13175	19.5	85	-N		C	0621	1.10	1.50				
TEHR	22	0615E	0642D	0620	S12	H34	.626 13175	19.7	270	-N	4	C		.83			DE		
GRP61021	22	1022	1038	1028	S12	H37	.661 13175	19.7	16	-N				.78			4 3 3 7		
MEUD	22	1020	1045		S11	H39	.679 13175	19.5	25	-F		C	1025	.83	1.10		E		
TEHR	22	1023	1033	1026	S11	H33	.608 13175	20.0	10	-N	4	C		.25			DE		
UPIC	22	1025E	1035E	1030	S13	H39	.689 13175	19.5	100	-N		P	1030	1.26					
RAMY	22	1037E	1053	1041U	S14	H38	.684 13175	19.6	160	-N	3	C		.31			DE		
GRP61022	22	1747	1806	1753	S12	H44	.739 13175	19.4	19	--F				.51			2 2 2 6		
BOUL	22	1747	1801	1752	S13	H45	.754 13175	19.4	14	-F		C	1752	.75	1.05				
PALE	22	1749E	1811	1753U	S12	H45	.750 13175	19.4	220	-F	3	C		.27					
BOUL	22	1755	1823	1759	S12	H41	.706 13175	19.7	28	-F		C	1759	.43	.57				
GRP61024	22	1941	2000	1945	S11	H45	.746 13175	19.4	19	--F				.32			2 2 2 2		
BOUL	22	1940	2007	1946	S10	H43	.720 13175	19.6	27	-F		C	1946	.32	.44				
MCHA	22	1941	1953	1944	S11	H46	.757 13175	19.4	12	-N		C	1944	.31	.50		D		
	22	2051	2100		NO FLARE PATROL														
	22	2104	2120		NO FLARE PATROL														
025 BOUL	22	2148	2158	2150	S10	H46	.753 13175	19.5	10	--F		C	2150	.21	.31		2		
	22	2223	2239		NO FLARE PATROL														
	22	2243	2248		NO FLARE PATROL														
026 PALE	22	2338	23400	2339U	N04	E36	.587 13168	25.7	20	--F	2	C		.62			DE 3		
029 TEHR	23	0817E	0827D	0818U	S12	H46	.761 13175	19.9	100	--F	4	C		.21			F 3		
031 BOUL	23	2119	2140	2124	S10	H49	.784 13151	20.2	21	--F		C	2124	.54	.81		1		
032 TEHR	24	0314	0322	0316	S14	H59	.885 13175	19.7	8	--F	3	C		.41			3		
GRP61034	24	1510	1531	1518	S09	W71	.954 13175	19.3	21	-N				.45			2 2 2 4		
BOUL	24	1510	1527	1516	S09	W70	.949 13175	19.4	17	-F		C	1516	.32	.87				
BOUL	24	1511	1535	1517	S09	W68	.937 13175	19.5	24	-F		C	1517	.32	.83				
CATA	24	1520E	15250	1520	S09	W72	.959 13175	19.2	50	-B	3		1520	.58		(251)			

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H α SOLAR FLARES Confirmed AUGUST 1974

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS. COND.	MEASUREMENTS					REMARKS
	DATE AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP61035 PALE BOUL MCMA HUAN	24	1740	1836	1745	N03	E11	.202	13168	25.6	56	-N		1.37				4 4 4 4
	24	1738	1811	1744	N02	E11	.209	13168	25.6	33	-N	3 C	1.63				U F
	24	1739	1900	1745	N02	E12	.224	13168	25.6	81	-N	C	1.71	1.75			
	24	1740	18060	1745	N02	E11	.209	13168	25.6	260	-N	C	1.29	1.30			E
	24	1741	17510		N04	E11	.197	13168	25.6	100	-N	1 P	.83	.85			E
	25	0442	0505	NO FLARE PATROL													
	25	0510	0531	NO FLARE PATROL													
	25	1954	2001	NO FLARE PATROL													
	25	2013	2014	NO FLARE PATROL													
	25	2018	2029	NO FLARE PATROL													
037 ABST	25	2036	2039	NO FLARE PATROL													
	25	2056	2059	NO FLARE PATROL													
	26	0200	0250	NO FLARE PATROL													
	26	0400	0408	NO FLARE PATROL													
	26	0452	05130	0554	S10	H90	1.000	13175	19.5	810	1F	P	0554	.81			ADGK 2
	26	1555	1617	1559	N02	H10	.320	13168	25.3	22	--F	C	1559	.11	.11		3
	26	2104	2114	NO FLARE PATROL													
	28	2125	2202	NO FLARE PATROL													
	28	2208	2224	NO FLARE PATROL													
	28	2305	2312	NO FLARE PATROL													
038 BOUL	29	0116	0125	NO FLARE PATROL													
	29	0200	0206	NO FLARE PATROL													
	29	0211	0219	NO FLARE PATROL													
	29	2125	2131	NO FLARE PATROL													
	29	2137	2152	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 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.

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.

H α SOLAR FLARES

Unconfirmed

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE AUG	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. %	
858 MONT	01	0830	0846	0834	S08	W38	.647	13095	26.5	16	-N	C	0834	.62				8
859 BOUL	01	1602	1623	1609	S14	W68	.941	13084	24.6	21	-F	C	1611	.21	.54			4
860 BOUL	01	1619	1707	1646	S10	W75	.972	13084	24.1	48	-F	C	1646	.11	.32			4
867 CATA	02	1530	1545	1530	S11	W55	.841	13095	26.5	15	-N	3	1530	.29	.53	(178)		6
870 TEHR	03	1133	1146	1135	S05	W85	.997	13084	25.1	13	-F	2	C		.19		F	4
871 BOUL	03	1705	1738	1716	S10	W70	.948	13095	26.5	33	-F	C	1715	.21	.58			5
875 RAMY	03	2117E	2137	2121U	S09	W70	.947	13095	26.6	200	-N	4	C		.41		DE	4
876 PALE	04	0248E	0254	0248U	S08	W75	.971	13095	26.5	60	-F	3	C		.26		DE	5
878 UPIC	04	0905U	0930	0915	S09	W85	.998	13095	26.0	250	-F	P	0915	.21				5
879 UPIC	04	0955	1015		S09	W86	.999	13095	26.0	20	-F	P	1010	.21				4
881 BOUL	04	1355	1359	1357	S10	W89	1.000	13095	25.9	4	-F	C	1357	.11	.42			5
884 HUAN	04	2019	2022	2022U	S09	W88	1.000	13095	26.2	3	-F	1	C					4
887 MONT	05	0715	0729	0719	S09	W90	1.000	13095	26.6	14	-F	C	0719	.21				5
889 MONT	05	0936	0943	0940	S09	W90	1.000	13095	26.6	7	-F	C	0943	.41				7
890 MONT	05	0949	0956	0953	S09	W90	1.000	13095	26.7	7	-F	C	0953	.21				7
891 MONT	05	1043	1055	1045	S19	E90	1.001	13127	12.2	12	-F	C	1045	.21				9
895 MONT	06	0924	0938	0927	S11	E90	1.000	13128	13.1	14	-F	C	0927	.21				6
896 HUAN	06	1257E	12590		S21	E88	1.000	13127	13.1	20	-F	1	P					8
900 UPIC	07	1211	1235		S07	E55	.833	13124	11.6	24	-F	P	1220	.42				10
* GRP60901	07	1354	1400	1355	S07	E54	.824	13124	11.6	6	-N			.77			7	7
RAMY	07	1353	1400	1355	S07	E55	.833	13124	11.7	7	-N	4	C	.46			7	10
TEHR	07	1353	1359	1355	S06	E54	.822	13124	11.6	6	-N	4	C	.45			DE	F
BOUL	07	1353	1403	1355	S07	E52	.804	13124	11.5	10	-N	C	1355	.54	.86			
MOMA	07	1353	1359	1355	S07	E53	.814	13124	11.6	6	-N	C	1355	.31	.50		E	
ZURI	07	1353	1357	1354	S07	E52	.804	13124	11.5	4	-F	C	1354	.53	.90			
CATA	07	1355	1400	1355	S04	E54	.818	13124	11.6	5	-B	3	1355	.58	1.00	(229)		
HURB	07	1355E	14030	1355	S08	E56	.845	13124	11.8	80	-N			2.50				
904 BOUL	08	1551	1559	1553	S09	E24	.475	13124	10.5	8	-F	V	1553		.30			3
906 TACH	09	0432	0449	0439	S11	W34	.616	13120	6.6	17	1N	C	0439	2.73	3.55	63	E	3
907 ATHN	09	0647	0700	0653	S11	E17	.410	13124	10.6	13	-F	1		.34	.33			3
916 RAMY	10	1448	1506	1450U	N07	E68	.924	13139	15.7	18	-F	3	C		.46			4
918 HUAN	10	1825E	18270		S07	E38	.645	13136	13.6	20	-F	1	P	1826	.31	.41	C	3
GRP60921	11	1100	1310	1216	S06	E27	.495	13136	13.5	130	1N			3.97			2	1
KHAR	11	1100E	13100		S06	E27	.495	13136	13.5	1300	1N			3.97	4.60		EKS	5
RAMY	11	1210	1225	1216	S06	E27	.495	13136	13.5	15	-F	2	C	.37			DE	
922 TEHR	11	1244	1315	1254	S07	W02	.235	13124	11.4	31	-N	3	C		.31		DE S	6
923 BOUL	11	1443	1451	1444	N08	E58	.844	13139	16.0	8	-F	V	1444		1.10			6
925 ARCE	12	0931E	0959		S07	E16	.357	13136	13.6	280	-N	C	0936	1.13	1.20			5
926 MONT	12	1031E	1037	1033	S18	E17	.495	13147	13.7	60	-F	C	1033	.41				5
927 ABST	13	0625	0640	0628	S07	W05	.249	13128	12.9	15	-F	C	0628	.90	.90	640	DJL	5
GRP60928	13	0801	0845	0808	S03	W09	.227	13152	12.7	44	-F			1.06			2	2
ARCE	13	0800E	08450		S02	W10	.227	13152	12.6	450	-F	C	0810	1.21	1.20		2	8
ABST	13	0801	08080	0808	S04	W08	.229	13152	12.7	70	-F	P	0808	.90	.90	620	DJ	
929 WENO	13	1518	1530		S04	W07	.219	13136	13.1	12	-N							8
* Should be in "confirmed" list.																		

* Should be in "confirmed" list.

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1974 AUG	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
GRP60930 RAMY WEND	13 13 13	1609 1607 1611	1620 1621 1618	1611 1611	S06 S07 S05	W12 W12 W12	.298 13128 .310 13128 .286 13128	12.8 12.8 12.8	11 14 7	-F -F -F	3 3 C		.37 .37				2 2 1 7 DE	
931 PALE	13	2321E	23300	2323	S08	W44	.722 13124	10.7	90	-N	3 C		.30				5	
GRP60932 PALE PALE	14 14 14	0238 0238E 0239E	0244 0244 0244	0238 0238U 0239U	S04 S04 S04	W11 W09 W14	.263 13136 .240 13136 .301 13136	13.3 13.4 13.1	6 60 50	-F -F -F	2 V 2 V 2 C		.21 .21 .19				1 1 1 4	
935 UPIC	15	1121E	1130		S04	W29	.513 13136	13.3	90	-N	P	1126	.85				10	
936 TEHR	15	1234	1258	1246	N09	W03	.066 13139	15.3	24	-F	2 C		.64				OE 8	
938 TEHR	15	1412	1422	1414	S03	W18	.348 13141	14.2	10	-N	2 C		.64				DE 6	
939 MEUD	15	1657	1708	1700	N08	W13	.224 13141	14.7	11	-F	C	1700	.31	.30			D 5	
940 BOUL	15	1849	1920	1853	N09	W14	.243 13141	14.7	31	-F	C	1853	.32	.33			4	
942 WEND	16	0522	0529		N10	W19	.327 13141	14.8	7	-N							4	
943 ABST	16	0701E	07280	0712	N10	W21	.359 13141	14.7	270	-F	P	0712	.90	1.90			OJ 6	
945 TEHR	16	0757E	0802	0758	S12	E15	.405 13160	17.5	50	-N	4 C		.50				F 5	
GRP60946 ARCE UPIC	16 16 16	0804 0804E 0810U	0905 0905D 0825	0816 0905D 0816U	N09 N09 N09	W23 W23 W25	.389 13141 .389 13141 .421 13141	14.6 14.6 14.5	61 610 150	1N 1N -N	P P P	0804 0804 0816	1.96 1.96 .42	2.20			2 1 1 6 HK	
947 UPIC	16	1020U	1045	1025	S11	E45	.745 13175	19.8	250	-N	P	1025	1.05				6	
949 MCMA	16	1214E	1315		N08	W27	.451 13141	14.5	610	-N	C	1250	.83	.90			EL 9	
GRP60950 RAMY ATHN	16 16 16	1231 1231E 1231	1238 1241D 1234	1232 1231U 1233	S19 S20 S18	W52 W53 W51	.841 13127 .853 13127 .829 13127	12.6 12.5 12.7	7 100 3	-F -N -F	3 C 3 C 1		.48 .28 .68		.90		2 2 2 7 OE	
955 HUAN	16	1829	1837	1831	N09	W27	.452 13141	14.7	8	-F	2 C	1831	.21	.23			D 6	
959 BOUL	16	2020	2033	2024U	S16	W44	.756 13147	13.5	13	-F	C	2024	.32	.45			4	
962 PALE	17	0257E	02580	0258U	S05	W33	.573 13141	14.6	10	-F	1 C		.55				OE H 4	
964 PALE	17	0437E	04510	0440	S11	E01	.305 13148	17.3	140	-F	1 C		.52				OE 5	
965 ARCE	17	0800E	08030		S18	W50	.821 13147	13.6	30	-F	P	0800	.69	1.20			6	
968 TEHR	17	1018E	1048	1018U	S11	E31	.582 13175	19.8	300	-F	4 C		.64				F 5	
970 MEUD	17	1328	1405		S19	W53	.850 13147	13.6	37	-F	C	1330	.41	.80			OK 8	
971 RAMY	17	1333	1345	1335	S15	E39	.699 13151	20.5	12	-F	4 C		.21				OE H 8	
972 BOUL	17	1430	1452	1436	S05	W59	.866 13136	13.2	22	-F	C	1436	.32	.63			7	
973 HUAN	17	1610E	1614		S16	W57	.873 13147	13.4	40	-F	1 P						5	
974 PALE	17	1711E	1727	1712U	S12	W83	.996 13124	11.5	160	-F	2 C		.41				5	
976 BOUL	17	1824	1843	1828	S06	W73	.961 13152	12.3	19	-F	C	1828	.21	.61			5	
981 TEHR	18	0459	0505	0502	S07	W66	.922 13136	13.3	6	-F	4 C		.25				OE 4	
982 TEHR	18	0904	0920	0910	N09	W48	.738 13141	14.8	16	-F	4 C		.33				F 5	
GRP60984 TEHR KHAR	18 18 18	1111 1111 1114E	1212 1210 12130	1139 1137 1140	N13 N12 N13	W52 W48 W56	.783 13141 .738 13141 .823 13141	14.6 14.9 14.3	61 59 590	-F -F -F	4 C 4 C C		.44 .25 .62		1.00		2 2 2 8 D	
987 ABST	19	0730	0748	0733	S10	W89	1.000 13128	12.6	18	1F	C	0733	1.35				ADG 7	
988 TEHR	19	0742	0756	0745	S11	E87	1.000 13170	25.8	14	-N	4 C		.17				F 6	
990 KHAR	19	0953E	10100	0955	S16	W90	1.001 13136	12.7	170	2N	C						7	
GRP60991 KHAR TEHR	19 19 19	1054 1054E 1055	1105 11050 1107	1056 1056 1058U	S11 S16 S06	W88 W90 W85	1.000 13136 1.001 13136 .997 13136	12.9 12.7 13.1	11 110 12	2F 2F -F	C C 4 C		.21 .21				2 2 1 8 D	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE AUG	START	END	MAX. PHASE	APPROX. LAT. HER. DIST.	CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
992 MEUD	19	1418	1422	1418	S16	E03	.391 13151	19.8	4	-F	C	1418	.31	.30			E 8
993 HUAN	19	1913E	19180		S11	W88	1.000 13147	13.2	50	-F	1 P						4
994 TEHR	20	0309	0325	0315	N11	E58	.842 13166	24.5	16	-N	4 C		.83				5
996 MEUD	20	1102	1120	1110	N12	W85	.994 13141	14.1	18	-N	C	1110	.21				D 6
997 MEUD	20	1142	1152	1145	S05	W90	1.000 13136	13.7	10	-N	C	1145	.31				8
998 HUAN	20	1309	1321	1314U	S13	W88	1.000 13147	13.9	12	-F	2 C						8
999 HUAN	20	1503	1508	1506U	N13	W88	.998 13141	14.0	5	-F	2 C						4
000 RAMY	20	1838	1858	1841	N03	E59	.856 13168	25.2	20	-F	4 C		.37				DE 5
001 TEHR	21	0352	0405	0354	N04	E59	.855 13168	25.6	13	-N	3 C		.28				DE 4
002 TEHR	21	0617E	0630	0620	S10	W20	.440 13175	19.8	130	-N	3 C		.55				DE 5
007 TEHR	21	0941E	0956	0945	S12	W18	.439 13151	20.1	150	-N	4 V		.66				U F 6
010 TEHR	21	1258	1334	1305	S10	W22	.464 13175	19.9	36	-N	2 C		.55				F 10
013 MCMA	21	1727	1734	1729	N01	E47	.734 13168	25.3	7	-F	C	1729	.26	.40			D 7
GRP61016	22	0659	0708	0704	S13	W38	.678 13175	19.4	9	-F			.70				2 2 2 7
HANI	22	0659	0708	0704	S13	W38	.678 13175	19.4	9	-F	2	0704	.41	.56			D
ABST	22	0659	0705D	0703	S12	W38	.673 13175	19.4	60	-N	P	0703	.99	1.30			
017 TEHR	22	0805E	0820D	0810	S11	W33	.608 13175	19.9	150	-N	4 C		.41				DE 7
018 TEHR	22	0834E	0841	0836	S11	W33	.608 13175	19.9	70	-N	4 C		.33				DE 7
019 TEHR	22	0956E	1006	1001	S11	W33	.608 13175	19.9	100	-F	4 C		.25				DE 6
020 TEHR	22	1014E	1025	1019	N13	E29	.488 13166	24.6	110	-N	4 C		.41				5
023 BOUL	22	1751	1820	1759	N01	E37	.607 13168	25.5	29	-F	C	1759	.21	.27			4
027 HANI	23	0225	0236D	0229U	S13	W48	.785 13175	19.5	110	-F	2	0229	.52	.79			F 4
028 HANI	23	0340E	0348E	0343U	S13	W48	.785 13175	19.6	80	-F	2	0343	.52	.79			F 7
030 ARGE	23	0845E	0855D		S11	W51	.807 13175	19.5	100	-F	C	0845	.44	.70			B 6
033 BOUL	24	1352	1411	1356	S09	W68	.937 13175	19.5	19	-F	C	1356	.21	.55			6
036 BOUL	25	2103	2121	2106	S08	E14	.350 13174	26.9	18	-F	V	2106		.52			3
039 BOUL	26	1741	1750	1747	S19	W35	.685 13165	24.1	9	-F	C	1747	.11	.13			6
040 ATHN	27	1304E	1307	1305	S01	W26	.457 13168	25.6	30	-F	1	1305	.68	.68			5
041 ABST	29	0531E	0604	0552	S26	W30	.696 13174	27.0	330	1F	P	0552	1.80	2.40			FG 5
042 ABST	29	0552E	0632D	0622	N07	W27	.451 13194	27.2	400	-F	P	0622	.90	1.00			DJ 4
043 ABST	30	0534E	0608D	0550	N08	W40	.638 13194	27.2	340	-F	P	0550	.90	1.40			OGJK 4

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
740801	20.89	23.5	740810	0.00	23.1	740820	0.51	22.6
740802	2.44	22.1	740811	0.00	22.6	740821	24.37	23.5
740803	4.39	24.0	740812	0.00	23.5	740822	7.97	23.2
740804	3.13	23.5	740813	0.00	23.8	740824	10.97	24.0
740805	0.00	23.9	740814	0.00	23.5	740825	0.00	22.9
740806	5.38	23.9	740815	0.00	23.2	740826	3.46	22.9
740807	2.22	22.1	740816	4.87	23.2	740828	0.00	23.0
740808	0.00	22.3	740817	28.93	24.0	740829	0.00	23.3
740809	19.35	23.1	740819	0.00	23.7			

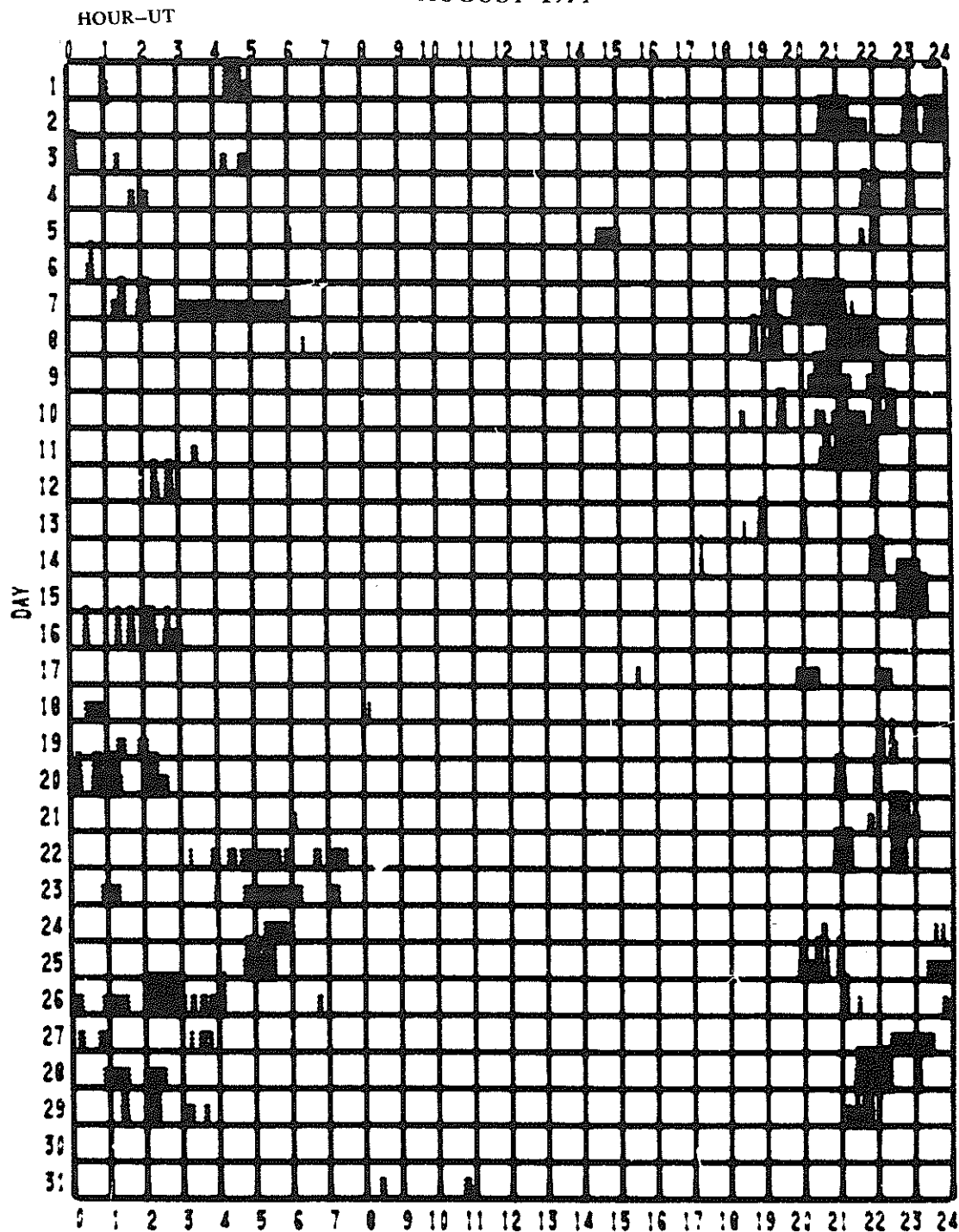
When no Flare Index is given, it is 0 for that day.

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INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

AUGUST 1974



Observatories included in total patrol:

Abastumani	Catania	Kharkov	McMath-Hulbert	Tachkent
Arcetri	Culgoora	Kiev	Meudon	Teheran
Athens	Herstmonceux	Kodaikanal	Mitaka	Upice
Boulder	Huancayo	Locarno	Palehua	Voroshilov
Bucharest	Hurbanovo	Manila	Ramey	Wendelstein
				Zürich

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1974

AUG 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
1	536 ONDR	45	0727.5	0731	5	65.0			
	18 MCMA	6	1614	1616	10			1	
	2800 OTTA	24	1820	1900	40	1.2	0.6		
	2800 OTTA	24	1900		420 D	1.2			
	8800 PALE	22	2007.9	2023.8	22.3	11.6	6.9		
	10700 PENN	20	2011.5	2020.1	44.9	6.4	3.4		
	1420 BOUL	45	2011.5	2025	12.5	20.0	7.0		
	606 SGMR	46	2011	2013.6	14	40.0	16.2		
	606 SGMR	46		2014.4		40.5			
	2800 OTTA	4	2012	2015.2	11	19.8	7.2		
	2700 PENN	45	2012.5	2015.4	10.6	19.0	7.8		
	2695 BOUL	45	2012.5	2016.5	12	19.0	5.0		
	1415 PALE	4	2012	2015.2	14.8	31.6	9.5		
	1415 SGMR	4	2012.4	2015.2	10.7	31.4	12.6		
	960 PENN	45	2012.5	2015.4	7.5	12.8	5.1		
	245 SGMR	6	2012.1	2015	14.3	16.9	6.8		
	410 SGMR	6	2013.2	2015.2	8.5	32.4	13.0		
	960 PENN	29	2020	2020	30.2	2.2	1.1		
	2800 OTTA	29	2023	2023	130	5.0	2.8		
	2700 PENN	29	2023.1	2023.1	128	4.7	2.4		
	18 MCMA	41	2148	2151	10			1	
	18 MCMA	41	2206	2220	16			1	
	18 MCMA	41	2229	2233	10			1	
	2800 OTTA	27	2240		150	1.6	1.4		
	2800 OTTA	24	2240	2250	10	1.6	0.8		
	9400 TYKW	5	2241	2250	30	3.0	1.0		
	2700 PENN	1	2241	2244.6	6.6	3.8	1.7		
	2695 BOUL	45	2242.5	2246.5	5	6.0	2.0		
	2000 TYKW	5	2242	2245.2	6	3.0	1.0		
	1000 TYKW	45	2242	2245.2	5	17.0	3.0		
	960 PENN	45	2242.4	2245.4	3.4	7.8	2.0		
	3750 TYKW	5	2243	2245	25	3.0	1.0		
	2800 OTTA	2	2243	2245	6				
	1420 BOUL	8	2243	2245	4	8.0	3.0		
	1415 SGMR	3	2243.7	2245.3	4.1	10.2	2.0		
	1415 MANI	4	2243.9	2245.3	2.6	11.7	4.1		
	2695 PENT	24	2250		110	1.6			
	2695 PENT	26	2440	2510	30	-1.6	-0.8		
2	100 HIRA	45	0836.5	0840	5.5	1000.00	70.00		
	4995 BOUL	3	1742.5	1744.5	3	8.0	3.0		
	2695 BOUL	3	1744	1745.5	2.5	3.0	1.0		
	1415 SGMR	1	2014.3	2014.5	.4	1.5	.4		
	606 SGMR	1	2014.3	2014.5	.6	2.4	.7		
	410 SGMR	6	2014.3	2014.9	.9	3.0	.6		
	245 SGMR	6	2014.2	2014.9	1.8	2.6	.5		
	606 SGMR	1	2030.6	2030.9	.5	3.5	1.1		
	410 SGMR	6	2030.6	2030.9	.7	2.6	.5		
	245 SGMR	6	2030.5	2030.9	1	2.3	.5		
	18 MCMA	41	2200	2205	7			1	
	18 MCMA	41	2216	2221	17			1	
3	260 ONDR	44	0620	0640.5	90	35.0			
	260 ONDR	41	0750	1355	442	20.0			
	2695 PENT	24	1745	1915	90	1.8	0.9		
	2695 PENT	24	1915		220 D	1.8			
4	260 ONDR	44	0646	1427	509	45.0			
	9100 GORK	20	0837	0936	113	5.9	2.7		
	245 SGMR	44	0942	1034.3	318 D	34.6			
	188 KIEV	42	1342.5		68	75.0	10.0		
	18 MCMA	6	1548	1550	3			1	
	2595 PENT	20	1940	2145	200 D	2.4			
	2700 PENN	8	2027.6	2027.7	.5	3.8			
5	260 ONDR	44	0643	0900	503	25.0			
	18 BOUL	6	2005	2009	5			1	
6	260 ONDR	44	0645	1309	501	25.0			
	18 MCMA	6	2210	2212	3			1	
	18 MCMA	41	2259	2311	18			2	
	18 MCMA	41	2329	2400	34			1	
7	260 ONDR	41	0800	1157	430	25.0			
	188 KIEV	42	1202.5	1218	180	175.0	13.0		
	2700 PENN	8	1213.6	1213.7	.3	1.9			
	960 PENN	8	1213.6	1213.7	.2	9.0			
	245 SGMR	43	1530.2	2106.6	501.80	14.2			
	930 BORD		1706	1707.2	2	14.0	2.0		
	18 BOUL	6	1735	1738	5			1	
	245 SGMR	6	1736.1	1737.7	5.2	94.6	28.4		
	18 MCMA	6	1739	1741	4			1	
	2800 OTTA	8	1847.8	1847.8		2.2			
8	200 HIRA	45	0458	0458.8	1	120.0	20.0		
	260 ONDR	44	0638	1316	532	130.0			
	245 SGMR	44	0946	1230.5	845 D	86.6			
	234 POTS	45	1230.4	1230.4	.2	250.0	15.0		
	2800 OTTA	27	1415		295 D	2.0			

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

AUGUST 1974

AUG (1974)	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	2800 OTTA	24	1415 E	1455	40 D	2.0			
	2800 OTTA	24	1455		190	2.0			
	188 KIEV	41	1523	1552	30.5	210.0D			
	245 SGMR	6	1551.6	1552	1.1	147.0	44.1		
	606 SGMR	1	1552.1	1552.3	.4	1.9	.8		
	410 SGMR	6	1552.1	1552.2	.3	7.5	1.5		
	29 UPIC	45	1552	1553	2				
	18 MCMA	6	1555	1556	2			1	
	29 UPIC	45	1625	1628.5	5				
	2800 OTTA	26	1805	1910	65	-1.4	-0.7		
	18 BOUL	6	2045	2047	3			1	
	18 MCMA	6	2047	2048	3			1	
	1415 PALE	22	2338.6	2342.6	13.7	15.6	10.0		
9	1415 PALE	4	0002	0004.6	7.3	13.5	3.9		
	100 HIRA	45	0138	0138.7	1	370.0	70.0		
	200 HIRA	45	0338.5	0339.5	1.5	180.0D	60.0D		
	100 HIRA	45	0338.5	0339.4	1.5	430.0	100.0		
	100 GORK	6	0415.7	0416.4	20.5	60.0			
	100 GORK		0415.7	0418.2		60.0D			
	100 GORK		0415.7	0421		60.0D			
	100 GORK		0415.7	0422.8U		60.0D			
	100 GORK		0415.7	0428.6		60.0D			
	100 GORK		0415.7	0429.4		60.0D			
	100 GORK		0415.7	0435.1		60.0D			
	200 GORK	6	0422.2	0422.7U	.7	100.0			
	100 HIRA	45	0422.4	0422.7	1	1000.0D	300.0D		
	200 HIRA	45	0445	0445.5	2.5	180.0D	50.0D		
	200 GORK	41	0445.2	0446 U	11.3	180.0D			
	200 GORK		0445.2	0455.6		100.0			
	100 HIRA	45	0445.2	0445.6	2	800.0	200.0		
	100 GORK	48	0445.2	0446	2.2	70.0D			
	200 HIRA	45	0455	0455	1	170.0	50.0		
	100 GORK	6	0455.2	0455.6	.8	60.0D			
	100 HIRA	41	0516.5	0517.9	8.5	1000.0D			
	100 GORK	41	0516.3	0516.7	9	80.0			
	100 GORK		0516.3	0518.1U		80.0D			
	100 GORK		0516.3	0519.3		80.0			
	100 GORK		0516.3	0521.1		80.0			
	100 GORK		0516.3	0523.1		80.0D			
	100 GORK		0516.3	0524.3		80.0			
	200 HIRA	45	0517.5	0518 U	3	180.0D	50.0D		
	200 GORK	41	0517.6	0518 U	3.3	150.0D			
	650 GORK	42	0523.7	0523.7	.3	4.5			
	207 IZMI	41	0609.2	0625.8	42.6	3000.0			
	200 GORK	41	0611.4	0614	20.8	150.0			
	200 GORK		0611.4	0620		70.0			
	200 GORK		0611.4	0626 U		150.0D			
	200 GORK		0611.4	0631.4U		150.0D			
	100 GORK	41	0623.4	0623.5	9	100.0			
	100 GORK		0623.4	0626.2		4500.0			
	100 GORK		0623.4	0629.5		100.0D			
	100 GORK		0623.4	0631.5		1500.0			
	234 POTS	45	0625 U	0625.2	.7U	700.0	70.0		
	207 IZMI	48	0625.4	0625.8	1	3000.0	1000.0		
	200 HIRA	45	0625	0625.8U	1.5	180.0D	100.0D		
	113 POTS	45	0625 U	0625.2	.8U	700.0	150.0		
	100 HIRA	45	0625.8	0626.1	1	950.0	200.0		
	200 HIRA	45	0629	0629	1	120.0	40.0		
	200 HIRA	45	0631	0631.5	1.3	180.0D	50.0D		
	100 HIRA	45	0631	0631.4	1.5	280.0	100.0		
	200 GORK	6	0647.1	0649	2.7	100.0			
	100 GORK	48	0647.5	0649.4	2.2	1500.0			
	100 HIRA	45	0648	0648.3	2.5	130.0	20.0		
	188 KIEV	42	0700 E	0753	450	210.0D	11.0		
	260 ONDR	44	0704	1233.5	479	160.0			
	207 IZMI	6	0731.6	0731.7	.2	40.0			
	221 ABST	44	0749.2	0752.8	240	9.0			
	207 IZMI	41	0749.3	0753.2	20	240.0			
	188 KIEV	48	0749.7	0753.4	13.4	210.0D			
	200 HIRA	45	0751		9				
	200 GORK	41	0751	0735.5	8.5	150.0D			
	200 GORK		0751	0756.2		200.0			
	100 GORK	41	0751	0753.4	9	2000.0			
	100 GORK		0751	0759.5		600.0			
	260 ONDR	45	0752	0753	8	100.0			
	113 POTS	41	0752.9	0754.7	6.4	300.0	5.0		
	100 HIRA	45	0753	0753.4	1	450.0	120.0		
	29 UPIC	45	0753 U	0759.5	7				
	100 HIRA	45	0754.7	0754.8	.6	140.0	50.0		
	650 GORK	22	0829.1	0839.4	20.9	12.0	2.3		
	188 KIEV	48	0833.8	0838.4	7	210.0D			
	207 IZMI	41	0834	0838	6	1800.0			
	200 HIRA	45	0834		6.5				
	200 GORK	41	0834	0838.5	6.2	200.0D			
	200 GORK		0834	0839.2		200.0			
	200 GORK		0834	0840.3		150.0			
	100 HIRA	41	0834	0838.2	7	1000.0			
	100 GORK	41	0834	0834.7	10.6	90.0			
	100 GORK		0834	0835.4		90.0D			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1974

AUG 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
10	100 GORK		0834	0837.4		90.00			
	100 GORK		0834	0838.4		900.0			
	100 GORK		0834	0840.1		1500.0			
	29 UPIC	45	0834		6.5				
	550 KIEV	41	0835	0838	9.2	59.0			
	113 POTS	40	0835.1	0838	4.9	7000.0	50.0		
	930 BORD		0836	0837.8	3	14.0	2.0		
	606 MANI	40	0836.8	0837.8	2.7	12.4	2.9		
	536 ONDR	45	0836.5	0837.5	3.5	95.0			
	950 GORK	40	0837.5	0839.1	21	6.0			
	808 ONDR	45	0837	0839	3	65.0			
	221 ABST	48	0837.2	0838	3	47.0	16.0		
	234 POTS	40	0838	0838	2.1	500.0	20.0		
	113 POTS	41	0925.6	0934.8	13	1400.0	20.0		
	100 GORK	41	0927.8	0927.9	13	70.00			
	100 GORK		0927.6	0935.2		70.00			
	100 GORK		0927.6	0938.7		70.00			
	100 GORK		0927.6	0940		70.0			
	245 SGMR	44	0947 E	2106	842 D	336.0			
	234 POTS	45	1003.2	1003.2	.1	150.0	30.0		
	113 POTS	5	1007.6	1007.7	.1	200.0	70.0		
	113 POTS	45	1035.7	1035.9	.3	100.0	20.0		
	550 KIEV	41	1045 E	1045.2	9 D	107.0			
	100 GORK	41	1045.7	1046.2	4.3	70.00			
	100 GORK		1045.7	1049.8		70.00			
	200 GORK	6	1145	1145.3	.7	200.0	60.0		
	113 POTS	45	1145	1145.1	.2	100.0	20.0		
	260 ONDR	45	1230	1233.5	20	160.0			
	113 POTS	41	1233.5	1236.4	3	800.0	9.0		
	4995 ROUL	3	1743	1744	2.5	8.0	3.0		
	2695 PENT	24	2330	2405	35	1.6	0.8		
	2695 PENT	24	2405		110 D	1.6			
	260 ONDR	44	0634	1013.5	316	115.0			
	221 ABST	7	0837.8	0838.2	.8	28.0	13.0		
	234 POTS	41	0840.5	0840.6	5.3	120.0	2.0		
	221 ABST	7	0843.5	0844	.5	39.0	16.0		
	536 ONDR	45	0859	0905.5	16	55.0			
	188 KIEV	42	0859		315	36.0	10.0		
	100 GORK	41	0859.1	0900.1	9	50.0			
	100 GORK		0859.1	0901.1		40.0			
	100 GORK		0859.1	0903.5		28.0			
	100 GORK		0859.1	0906.3		40.0			
	808 ONDR	5	0904	0904	.5	55.0			
	221 ABST	44	0932.2	1013.5	90	7.0			
	245 SGMR	44	0949 E	2331.8	839 D	34.4			
	221 ABST	6	1012.8	1013.2	1.2	42.0			
	410 SGMR	6	1013.7	1013.9	2.2	15.8	4.7		
	245 SGMR	6	1013.6	1013.8	1.6	34.9	10.5		
	234 POTS	45	1013.7	1013.8	.5	100.0	20.0		
	207 IZMI	42	1013.8	1013.8	3	2000.0	700.0		
	113 POTS	45	1013.7	1013.9	.7	700.0	150.0		
	29 UPIC	45	1013.5	1015	2.5				
	221 ABST		1052.5	1053	1	23.0	9.0		
	113 POTS	40	1311	1311.3	2	150.0	10.0		
	188 KIEV	7	1617.7	1634	45	40.0			
	2800 OTTA	20	1748	1800	250	2.0	1.1		
	2695 PENT	24	2230	2435	125	4.0	2.1		
	2695 PENT	24	2435		80 D	4.0			
11	100 HIRA	45	0407.5	0408.8	2.5	850.0	200.0		
	260 ONDR	44	0900	1035.5	367	45.0			
	245 SGMR	44	0949 E	2218.2	838 D	434.9			
	200 HIRA	44	2000 E	2245	780 D	28.0	15.0		
	2695 PENT	24	1130	1300	90	3.4	1.7		
	2800 OTTA	24	1300		750 D	3.4			
	2800 OTTA	32	1730	1755	50	-1.0	-0.5		
12	2695 PENT	20	0050	0120	65 D	4.2			
	200 GORK	44	0300		204 E		10.0		
	100 GORK	44	0300		138		5.0		
	100 GORK	6	0629.7	0629.9	.3	30.0	10.0		
	260 ONDR	44	0635	0951	515	90.0			
	200 GORK	44	0651		47		5.0		
	188 KIEV	44	0700 E		540 D	110.0			
	221 ABST	44	0716.8	1010	223.2	7.0			
	188 KIEV	44	0804.2	0810.6	10.5	210.0			
	100 GORK	44	0835		31		5.0		
	245 SGMR	44	0951 E	2258.4	834 D	111.5			
	202 VORO	44	2100	2125	240		16.0		
	9240 ARCE	22	0956.7	1019.2	75				
	221 ABST		1000.5	1001	1	47.0	26.0		
	221 ABST		1009.5	1010	1	49.0	15.0		
	221 ABST		1024	1024.5	1	36.0	15.0		
	2800 OTTA	27	1150		490	2.4			
	2800 OTTA	24	1150	1240	50	2.4	1.2		
	2800 OTTA	24	1240		310	2.4			
	234 POTS	41	1241.8	1241.9	5.5	175.0	1.0		
	2700 PENN	8	1250.7	1250.8	.2	3.8			
	960 PENN	3	1250.6	1250.9	.7	11.3	3.2		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1974

AUG 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	NEAR		
19	245 SGMR	44	0957 E	1602.9	820 D	20.4		1	
	188 KIEV	42	1435	1603	165	62.0	11.0		
	2800 OTTA	20	1620	1750	180	2.6	1.3		
	18 MCMA	41	2227	2238	34				
	200 HIRA	45	2255.5	2256.3U	3.5	180.00	70.00		
	100 HIRA	45	2255.5	2256.8U	3	1000.00	200.00	1	
	2800 OTTA	8	2256.6	2256.6		2.0			
	245 SGMR	48	2256	2256.5	2.3	776.9	155.4		
	202 VORO	6	2256	2250	4	85.0			
	18 MCMA	41	2349	2351	13				
	100 GORK	6	0302	0302.2	.7	30.0	20.0	1	
	260 ONDR	41	0650	0815	330	20.0			
	188 KIEV	41	0816.9	0817	8.2	68.0			
	100 GORK	41	0816.9	0817	7.8	40.0			
	100 GORK		0816.9	0819.8		50.0			
	100 GORK		0816.9	0821.1		50.0		1	
	1470 BERL	20	0952.5	0959.7	13	4.0			
	9100 GORK	20	0955	0958.5	34	4.3	2.1		
	4995 ATHN	1	0956.3	0958.1	9.2	6.4	1.9		
	3100 CRIM	29	0956	1000	50	5.0	2.0		
	3000 BERL	20	0956	0959.3	34 U	7.3		1	
	2695 ATHN	1	0956.3	0958.1	8.4	5.3	1.6		
	1415 ATHN	1	0956.3	0957.6	9	7.9	2.4		
	9500 BERL	20	0957	1010	26	5.2			
	536 ONDR	45	0957	0957.5	2	70.0			
	410 SGMR	44	0958 E	0958	817 D	35.0		1	
	245 SGMR	44	0958 E	1348.1	817 D	80.1			
	113 POTS	5	1005.6	1005.7	.1	200.0	70.0		
	9100 GORK	20	1031	1035	9.5	1.8	0.9		
	260 ONDR	44	1220	1417	130	135.0			
	188 KIEV	42	1220		56	37.0	16.0	1	
	550 KIEV	24	1340	1408.2	33	33.0			
	188 KIEV		1340	1357.8	35	185.0			
	606 SGMR	1	1416.9	1417	.7	5.2	1.0		
	410 SGMR	6	1416.8	1417.5	1.3	21.5	4.3		
	245 SGMR	7	1416.5	1417.6	1.5	407.0	81.3	1	
	234 POTS	45	1416.6	1417.6	1.2	450.0	10.0		
	188 KIEV	6	1416.5	1417.5	2.4	326.0			
	113 POTS	45	1416.7	1417.3	1.4	800.0	100.0		
	202 VORO	44	2200	0048	300	9.0			
	606 SGMR	3	2054	2054.2	.3	15.9	4.8	1	
	410 SGMR	6	2054.2	2054.3	.4	13.1	2.6		
	245 SGMR	6	2054	2054.3	1.2	36.8	7.4		
	410 SGMR	6	2102.8	2103	.6	34.2	6.8		
	245 SGMR	6	2102.9	2103	1.2	26.4	5.3		
	606 SGMR	3	2103	2103.1	.2	12.8	3.8	1	
	606 MANI	2	0123.8	0124	2.8	3.9	.6		
	202 VORO	6	0124	0125	4	110.0			
	200 HIRA	45	0124	0124.5	1	180.00	100.00		
	100 HIRA	45	0124	0124.5	2	190.0	30.0		
20	260 ONDR	44	0642	1158.5	508	25.0		1	
	188 KIEV	42	1030		95	28.0	13.0		
	202 VORO	44	2100	2236	360	3.0			
	245 SGMR	43	2146.8	2158	107.20	42.7			
	2800 OTTA	32	1510	1535	50	1.6	0.8		
	18 MCMA	6	1616	1617	2			1	
	245 SGMR	6	1733	1733.6	16.2	8.6	2.6		
	18 MCMA	6	1735	1737	3				
	18 BOUL	6	1832	1834	4				
	18 MCMA	6	1834	1838	5				
	18 MCMA	42	1853	1856	6			1	
	202 VORO	6	2206	2207	3		8.0		
	202 VORO	6	2250	2256	9		6.0		
	250 ONDR	44	0641	1017.5	509	45.0			
	188 KIEV	42	0729		55	18.0	10.0		
	29 UPIC	45	1234	1236	4			1	
	2695 PENT	20	1300	1315	70	1.6	0.8		
	2800 OTTA	20	1610	1650	95	1.6	0.8		
	202 VORO	44	2100	2327	360		8.0		
	2695 MANI	1	0446.7	0446.9	1.5	3.4	.9	1	
	1415 MANI	2	0446.5	0446.7	1.7	5.7	2.6		
	606 MANI	40	0446.3	0446.7	1.9	56.0	12.5		
	260 ONDR	44	0640	1135.5	510	30.0			
	188 KIEV	42	0700 E	0820	180	58.0	15.0		
21	202 VORO	44	2345	0114	195		11.0	1	
	9240 ARCE	4	0730.2	0730.7	1.5				
	9240 ARCE	20	0745	0734.3	110				
	2800 OTTA	20	1740	1810	110	2.8	1.6		
	100 HIRA	45	2001 U	2001.8U	1.5	90.0	50.0	1	
	113 POTS	40	0616.3U	0616.8U	1.3	200.0	10.0		
	260 ONDR	45	1053	1120.5	30	20.0			
	1420 BOUL	3	1339.5	1343.5	14	2.0	1.0		
	3000 BERL	4	1351.5	1352.5	2	48.0	24.0		
	1470 BERL	4	1351.7	1352.5	2.3	7.5	3.2	1	

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

AUGUST 1974

AUG 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION MINUTES	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT		PEAK	MEAN		
A	9500 BERL	20	1352	1353	6	4.4	2.0		
	8800 SGMR	2	1352.8	1353.2	3.8	6.4	1.9		
	4995 ATHN	1	1352.6	1352.9	.9	3.5	1.1		
	4995 SGMR	2	1352.1	1352.9	9.9	7.4	2.2		
	2695 ATHN	3	1352.2	1352.8	1.2	59.8	1.2		
	2695 PENT	4	1352	1353	2	63.0	31.5		
	2695 SGMR	4	1352	1352.8	3.5	63.0	18.9		
	1420 BOUL	8	1352	1353	2.5	3.0	1.0		
	1415 ATHN	1	1352.3	1352.8	1.4	2.7	.8		
	1415 SGMR	2	1352	1352.6	1.5	6.0	1.8		
	606 SGMR	2	1352.3	1353.2	1.2	1.2	.4		
	2695 BOUL	8	1353	1353.5	2	66.0	28.0		
	2695 SGMR	4	1510.9	1511.3	.7	16.0	4.8		
	2800 OTTA	8	1511	1511.4	.6	20.0			
	2800 OTTA	8	1515.5		.4	2.0			
	2800 OTTA	40	1517	1517.2	1.7	4.0			
	2800 OTTA	20	1735	1745	105	3.2	1.3		
	2695 BOUL	3	1737.5	1746	25	5.0	2.0		
	410 SGMR	6	1742.6	1743.6	2.4	5.6	.6		
	245 SGMR	6	1742.1	1744.3	3	3.6	.4		
25	260 ONDR	41	0636	0814	98	20.0		2	RECORD DISTUR
	550 KIEV	41	0932	0932.7	3.7	64.0			
	260 ONDR	5	1419.5	1420.5	2.5	15.0			
26	100 GORK	41	1148.5	1148.8	1.1	70.0			
	100 GORK		1148.5	1149.3		30.0			
	3100 CRIM	24	1221			4.0			
	260 ONDR	45	1343	1401	32	15.0			
	18 MCMA	6	1431	1433	3				
	260 ONDR	45	1438.5	1438.5	1	20.0			
27	9240 ARCE	22	1054.4	1216.8	165				
	260 ONDR	41	1138	1156.5	214	20.0			
28	3100 CRIM	24	0920			4.0			
29	100 HIRA	45	0033	0034.4	2	140.0	40.0		

Observatories:

ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder

CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
DWIN = Dwingeloo
GORK = Gorky

HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEV = Kiev
KISV = Kislovodsk

MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam

SAOP = Sao Paulo
SGMR = Sagamore Hill
SLOU = Slough
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice
VORO = Voroshilov

Explanation of Type Code:

1 Simple 1	6 Minor	22 Simple 3F	27 Rise and Fall	32 Absorption	44 Noise storm in Progress
2 Simple 1F	7 Minor +	23 Simple 3AF	28 Precursor	40 Fluctuation	45 Complex
3 Simple 2	8 Spike	24 Rise	29 Post Burst Increase	41 Group of Bursts	46 Complex F
4 Simple 2F	20 Simple 3	25 Rise A	30 Post Burst Increase A	42 Series of Bursts	47 Great Burst
5 Simple	21 Simple 3A	26 Fall	31 Post Burst Decrease	43 Onset of Noise Storm	48 Major
					49 Major +

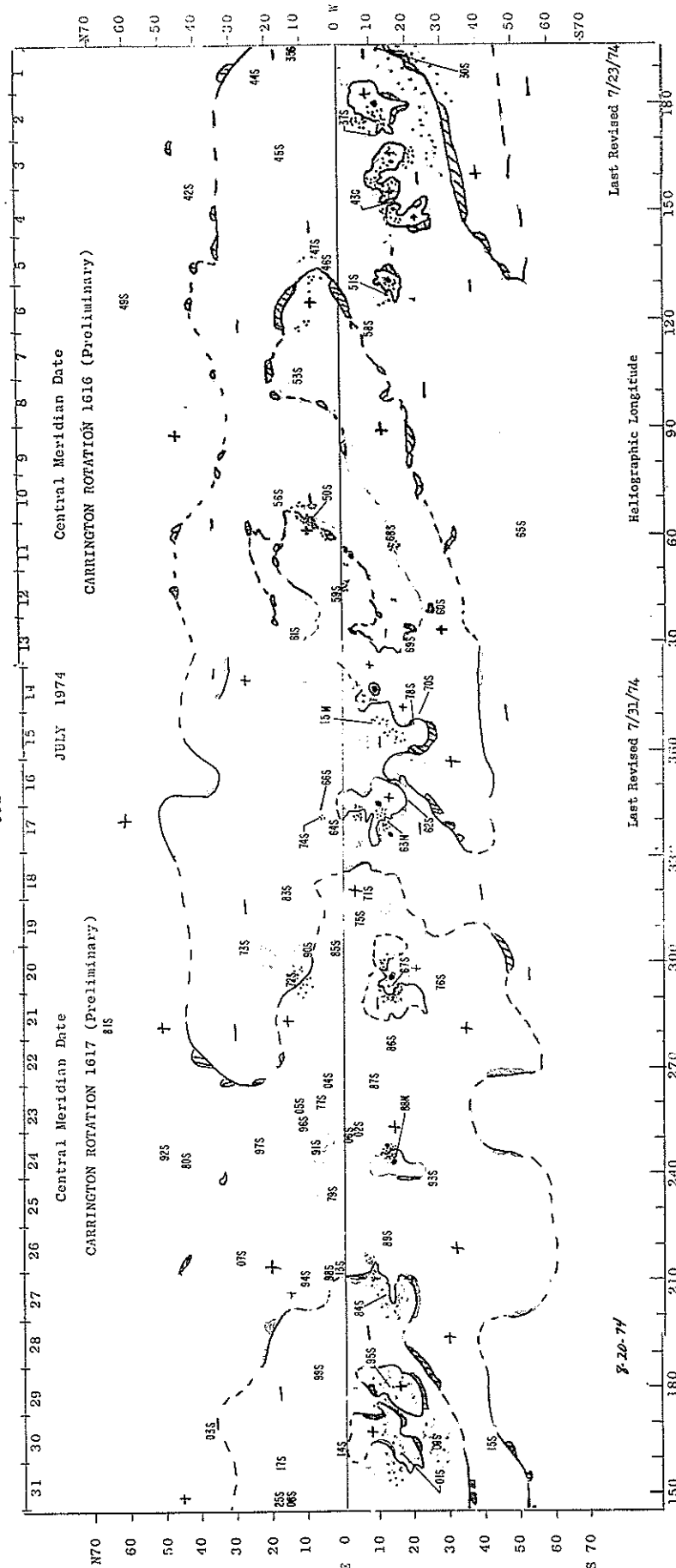
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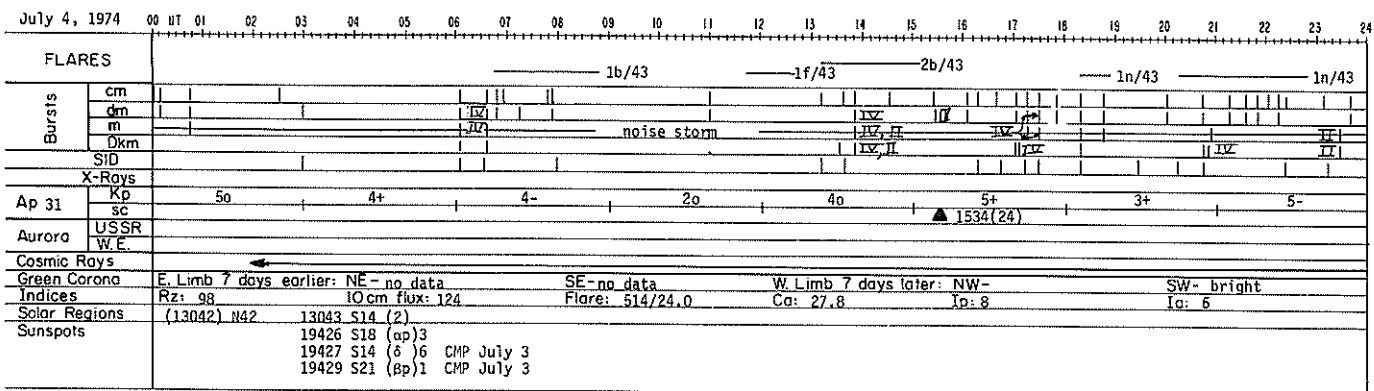
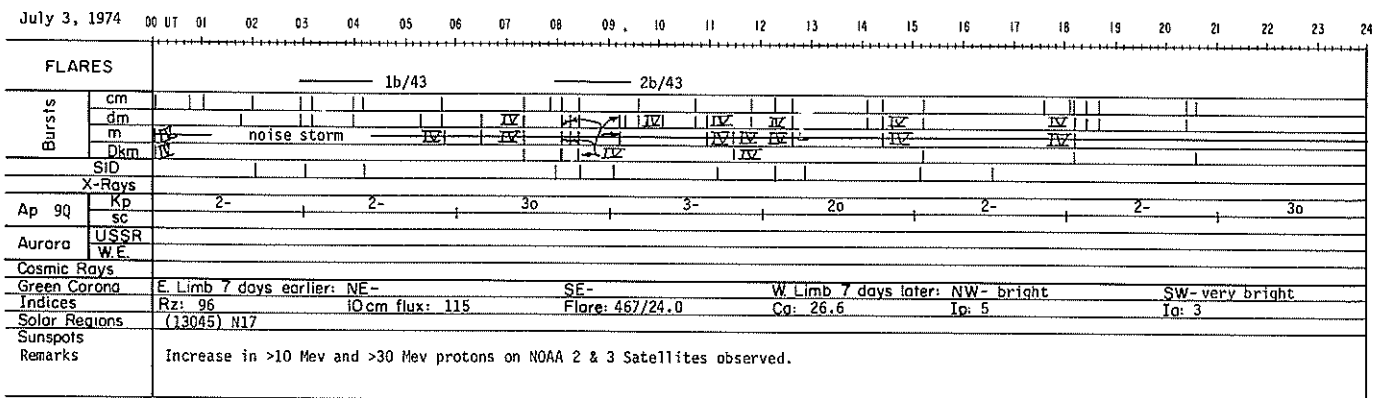
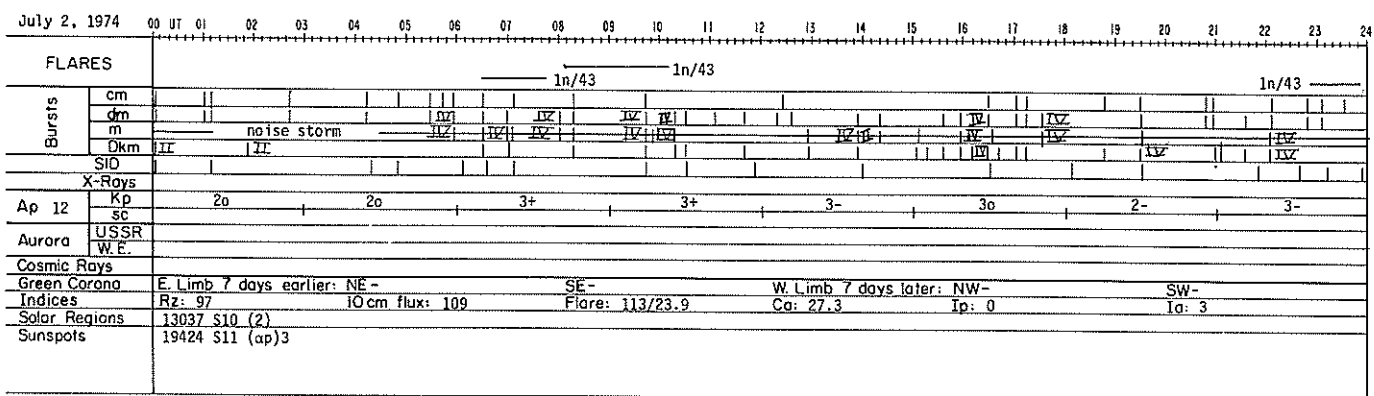
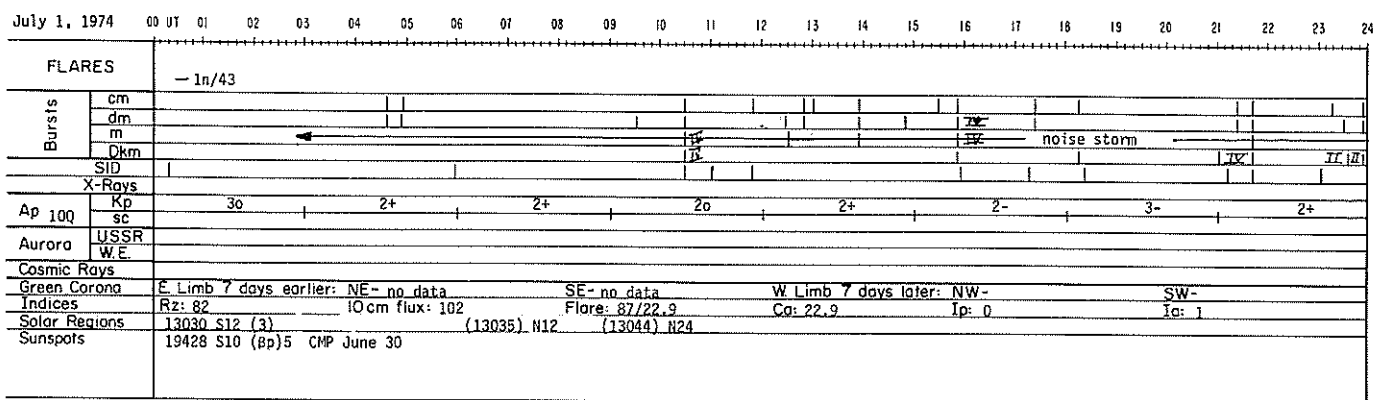
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ABBREVIATED CALENDAR RECORD

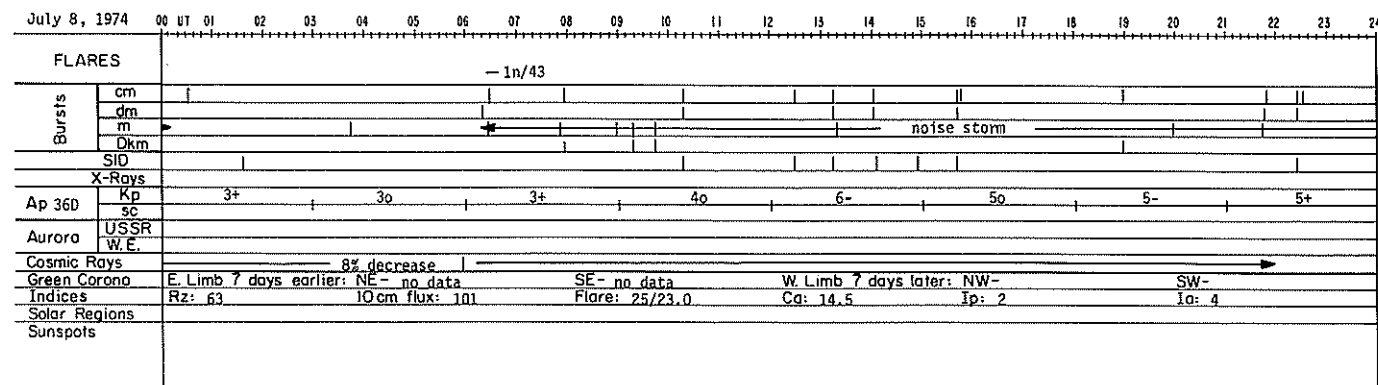
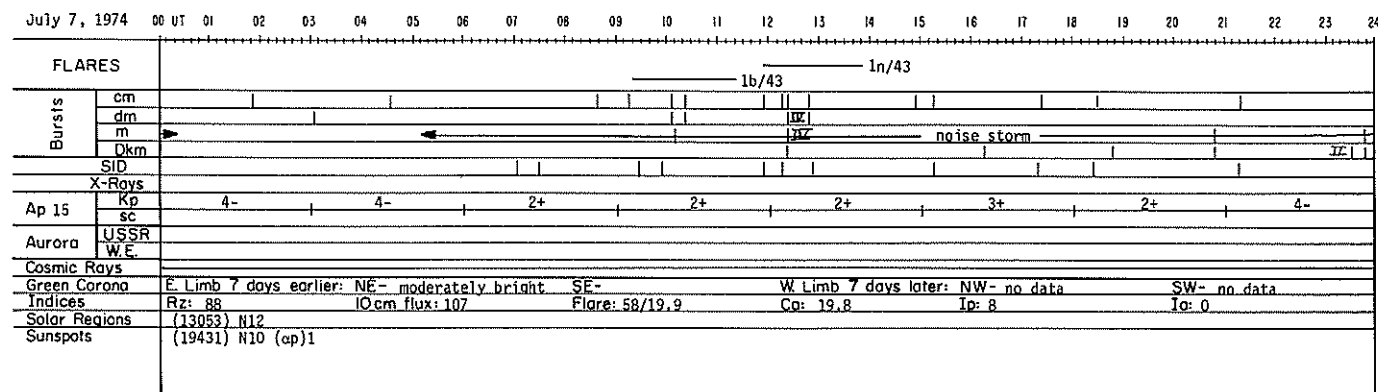
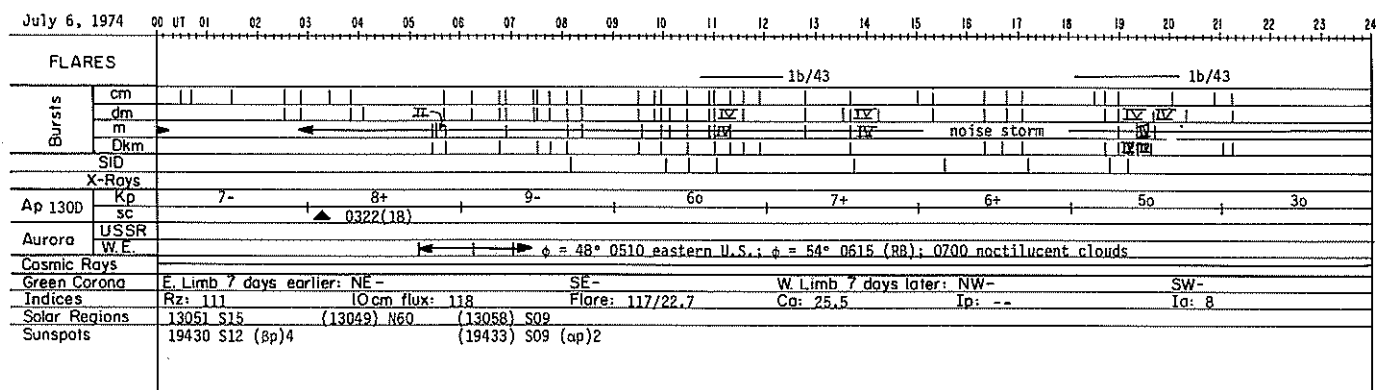
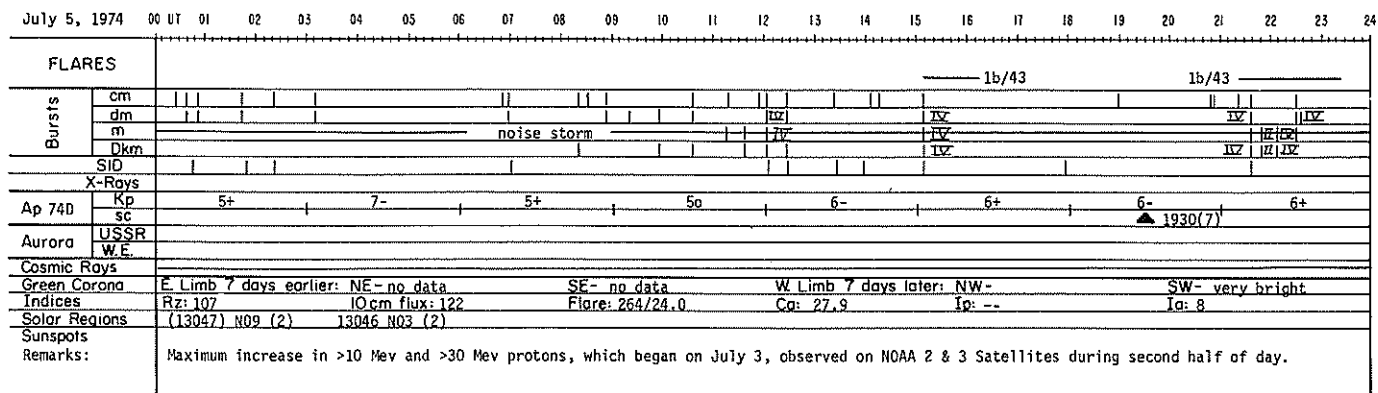
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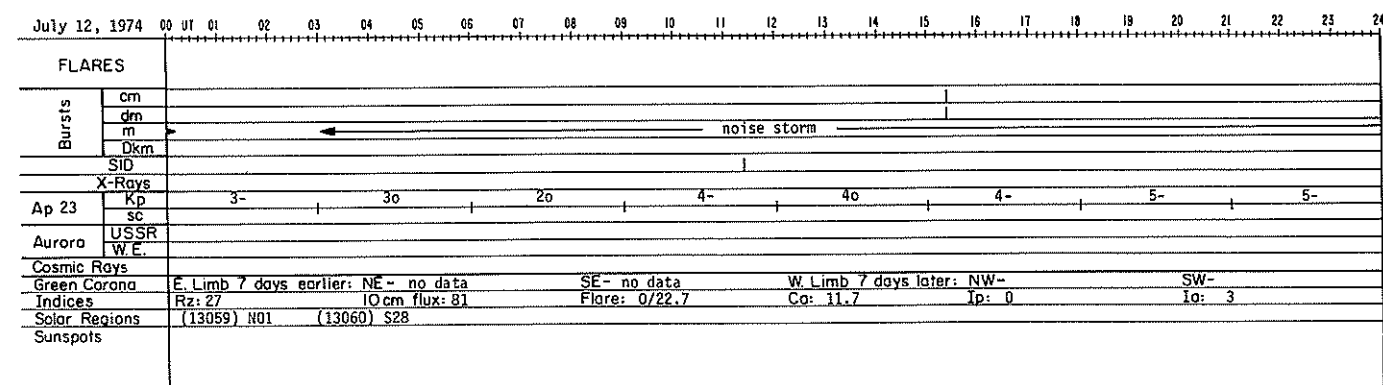
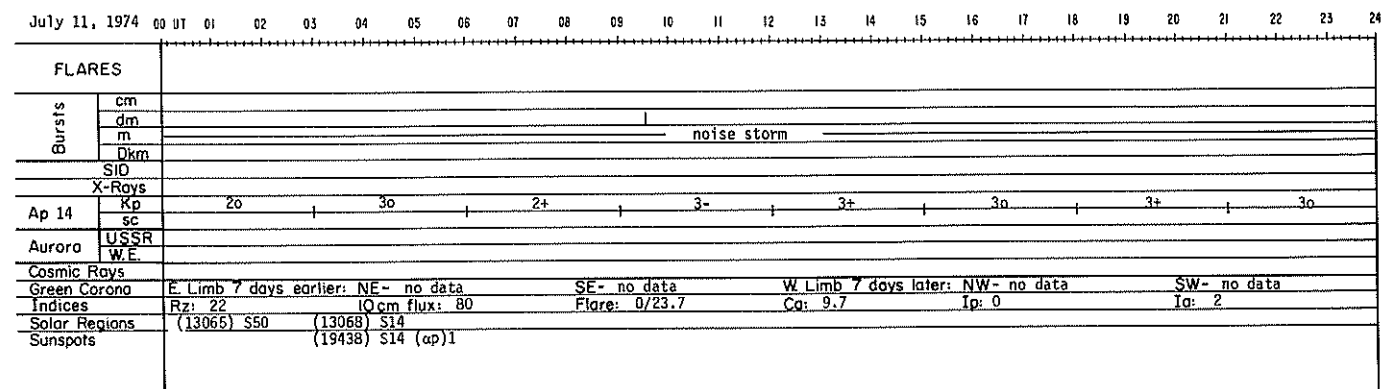
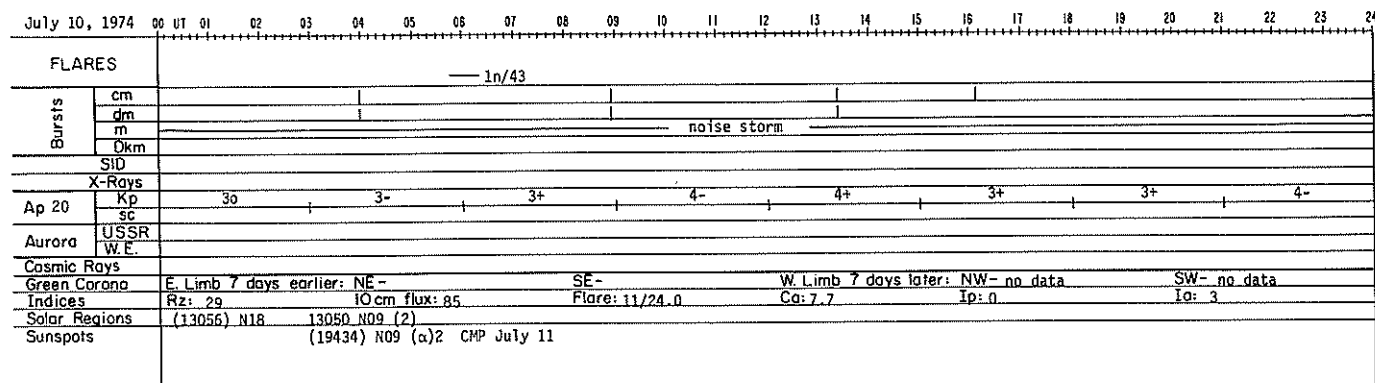
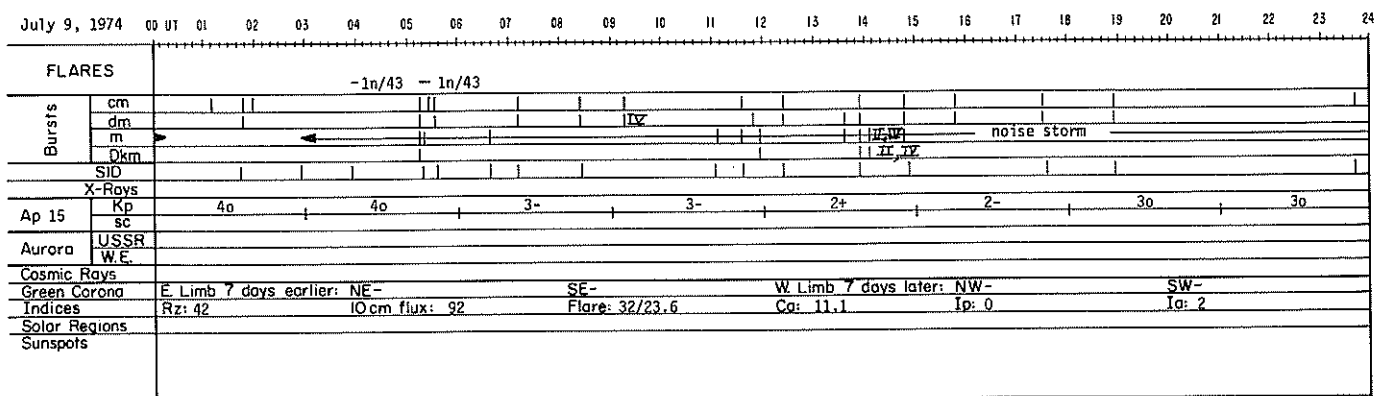


Note: The longitudes on the synoptic charts have been labeled "Carrington longitude". These longitudes are, in fact, in the heliographic system. This change should also be noted on page 20 of the *Descriptive Text* published February 1974 including the reference to Lo, as shown on the pages of solar maps which follow.

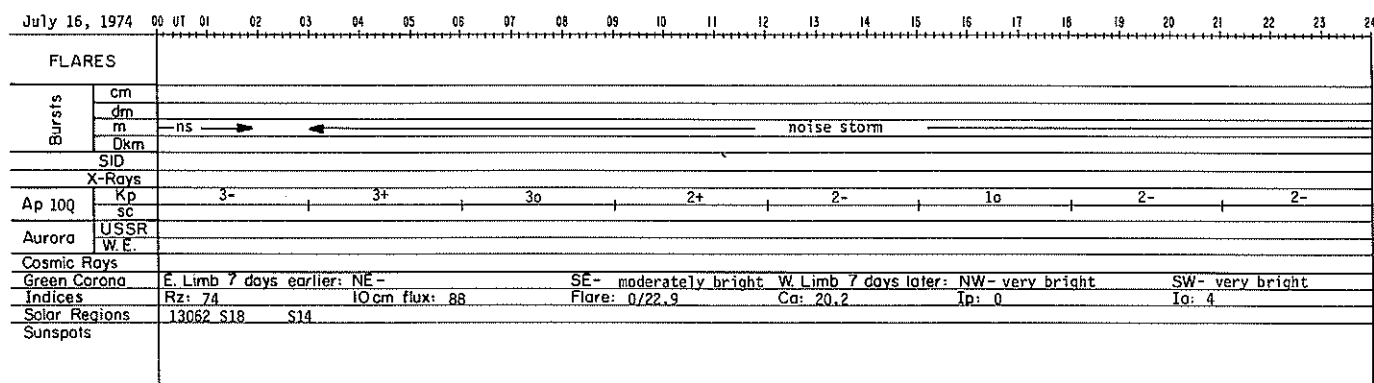
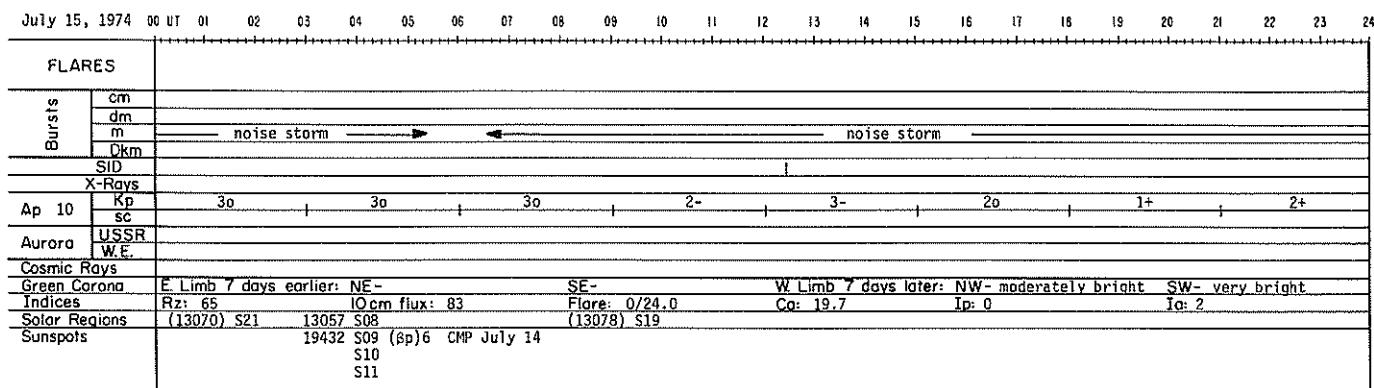
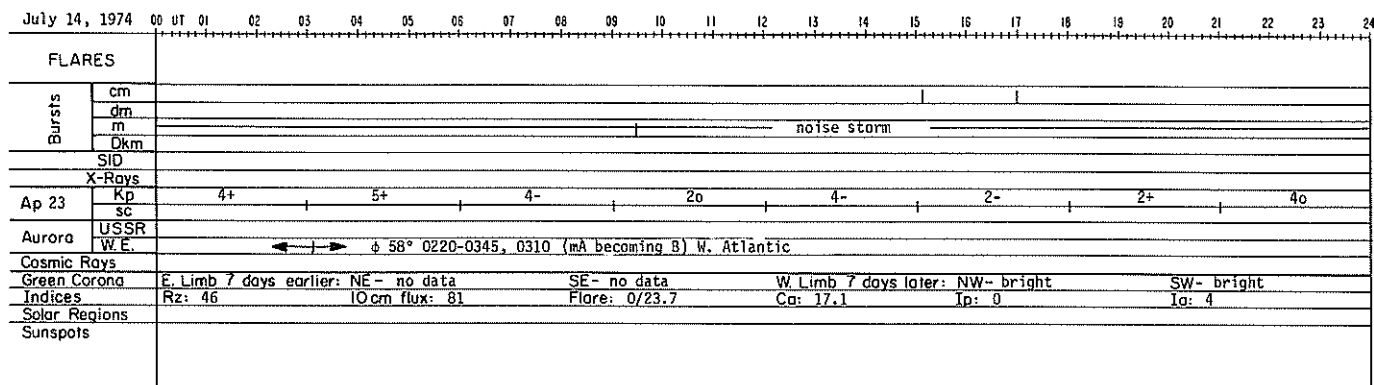
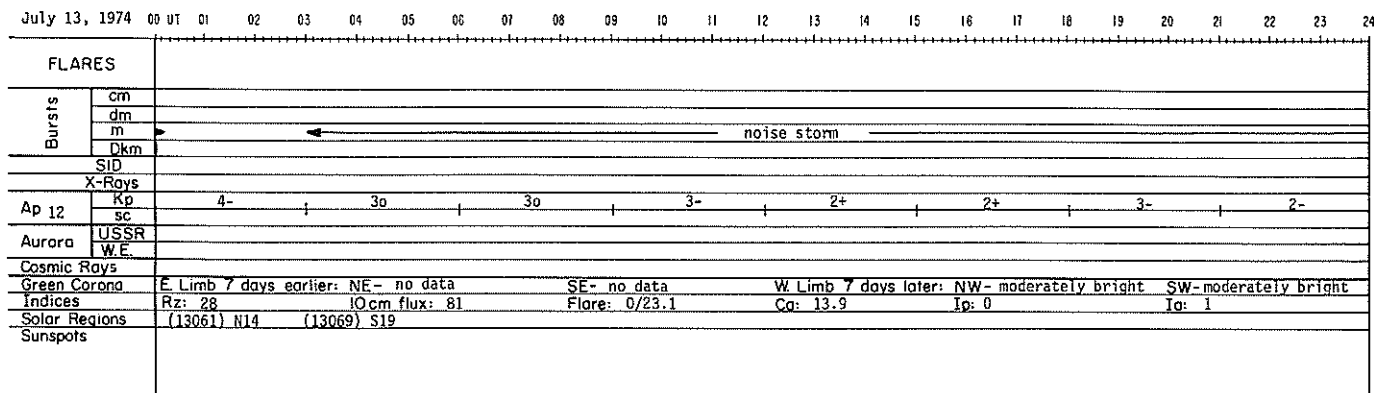
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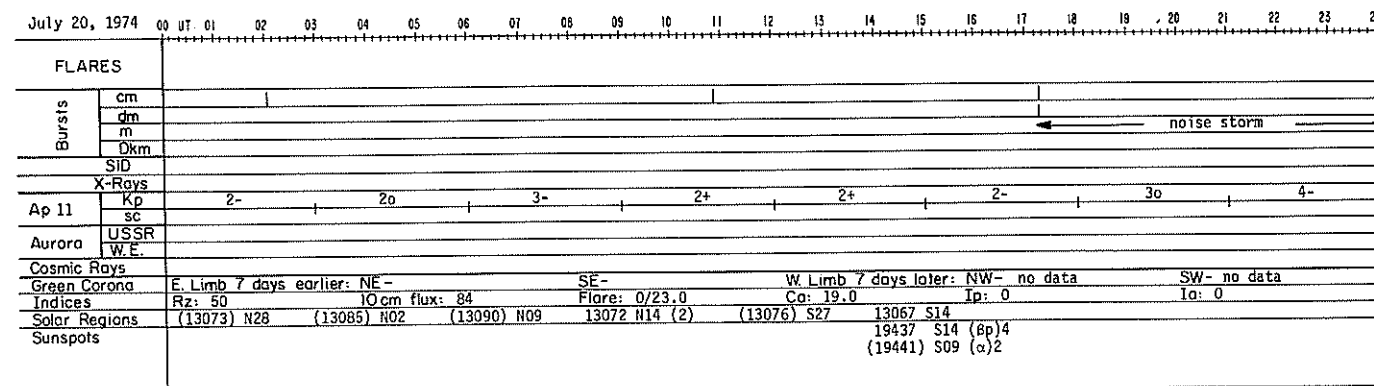
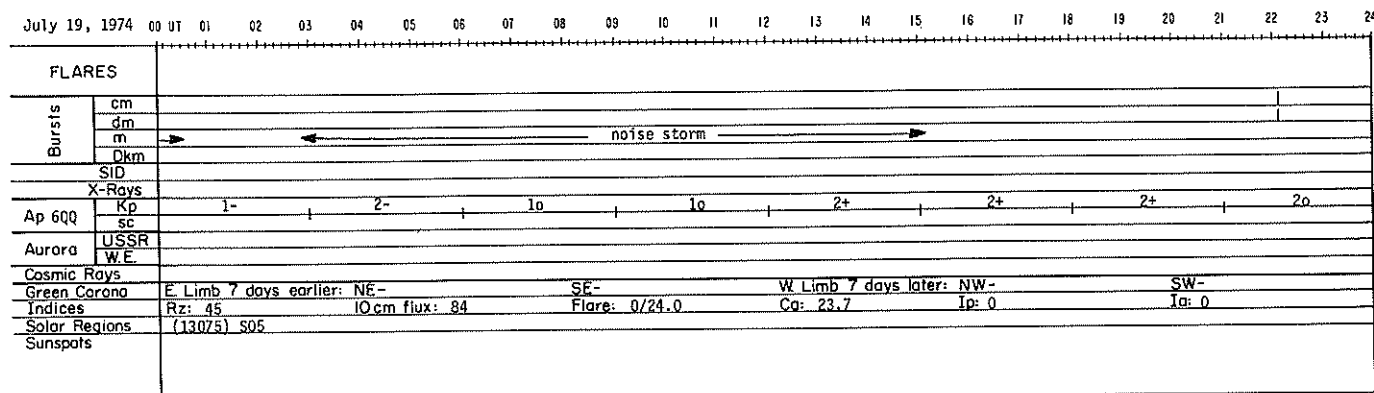
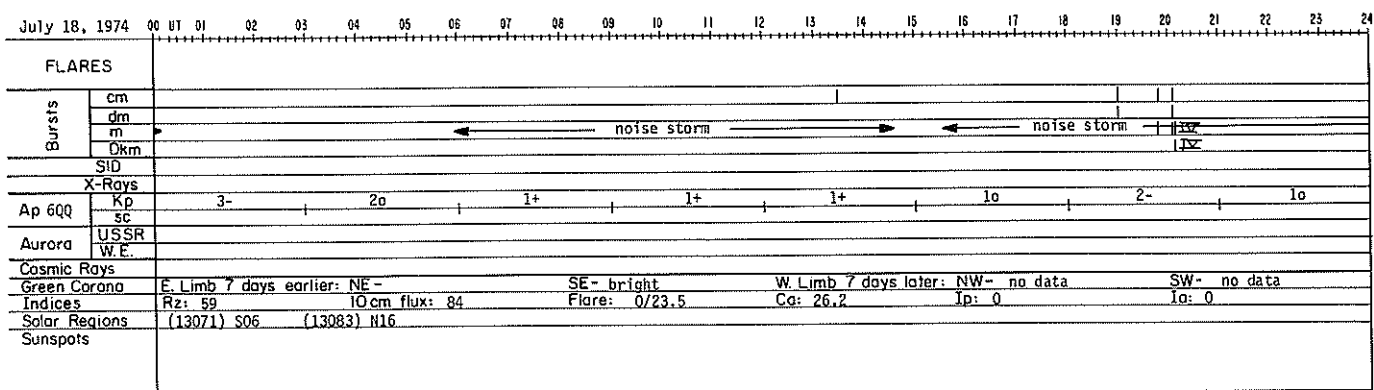
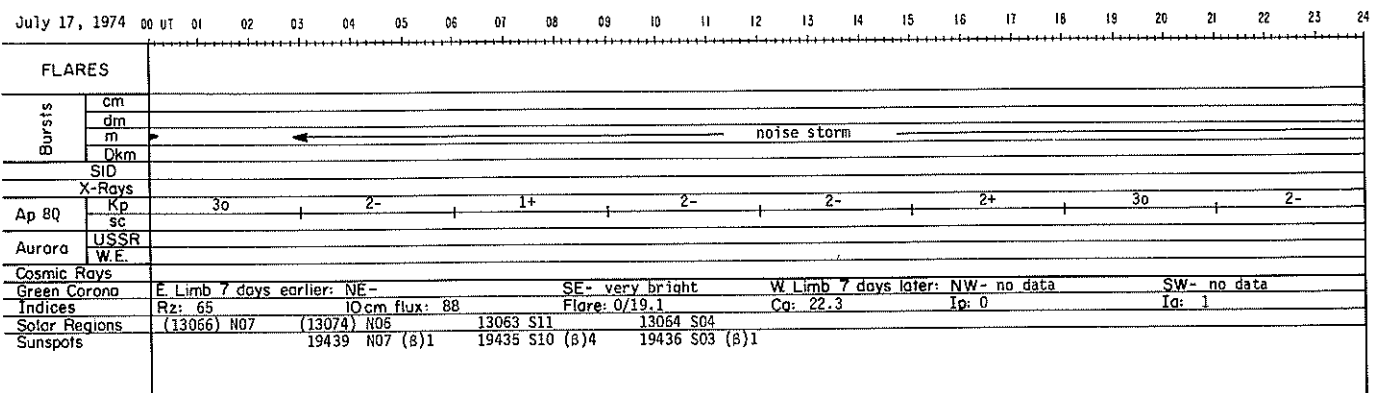




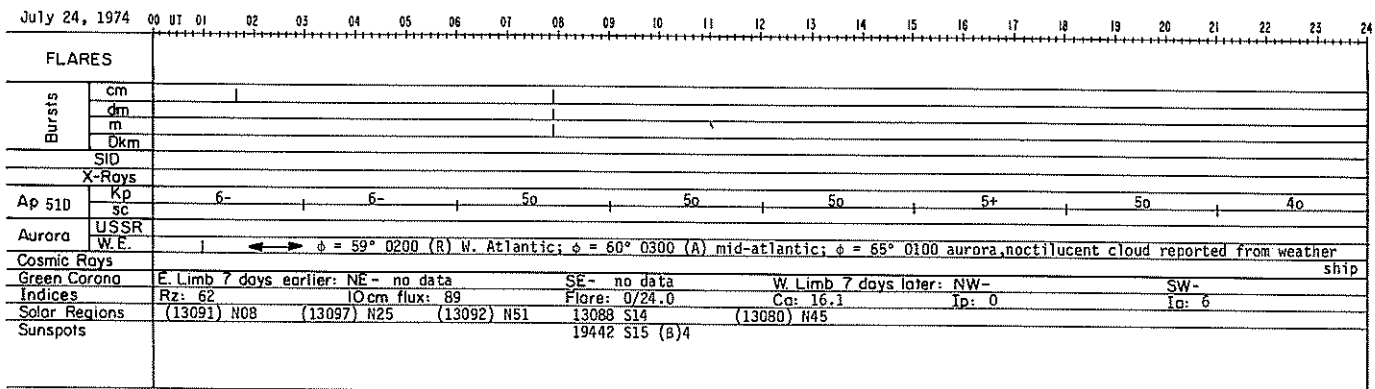
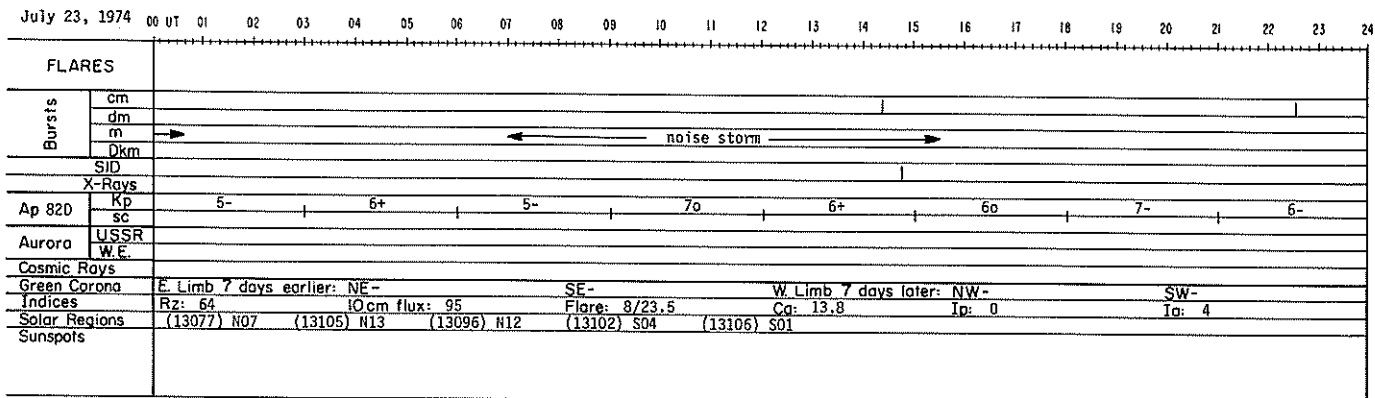
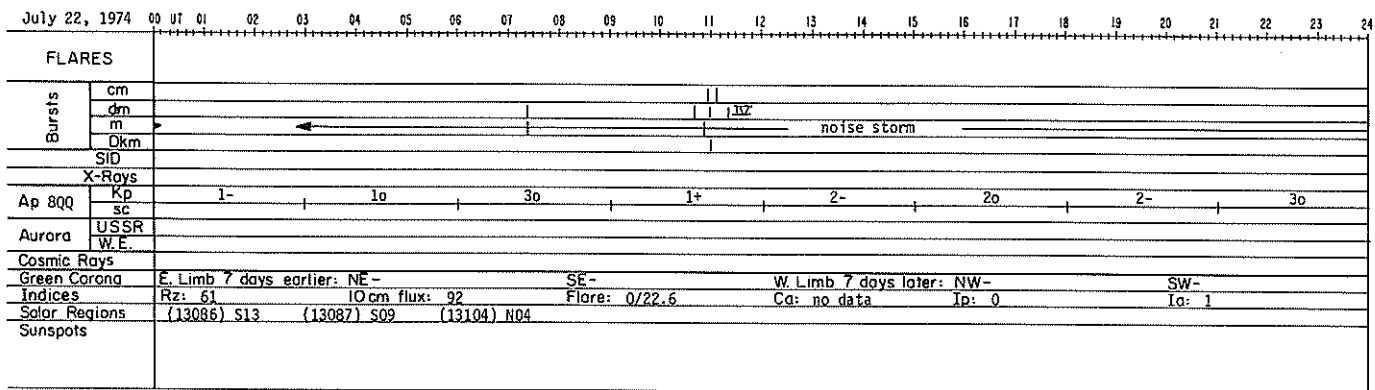
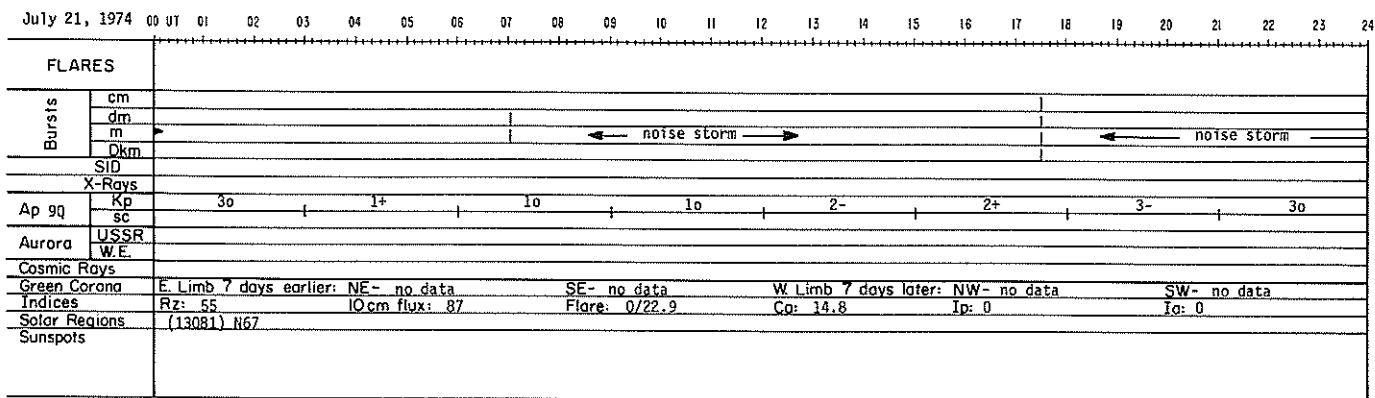
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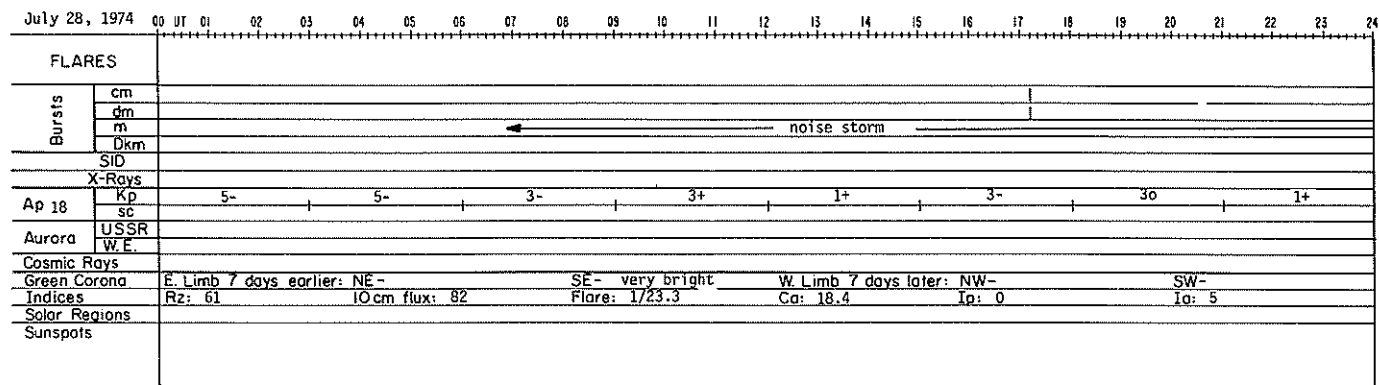
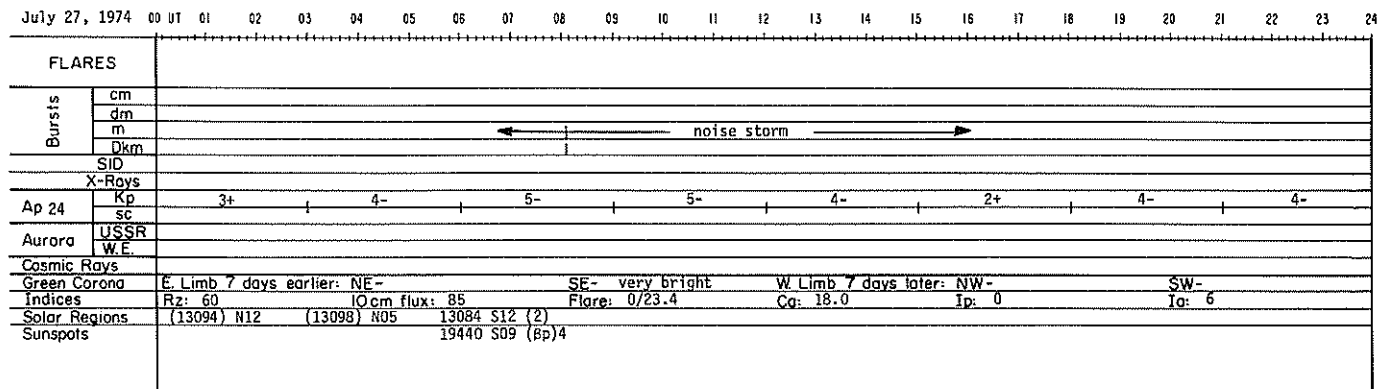
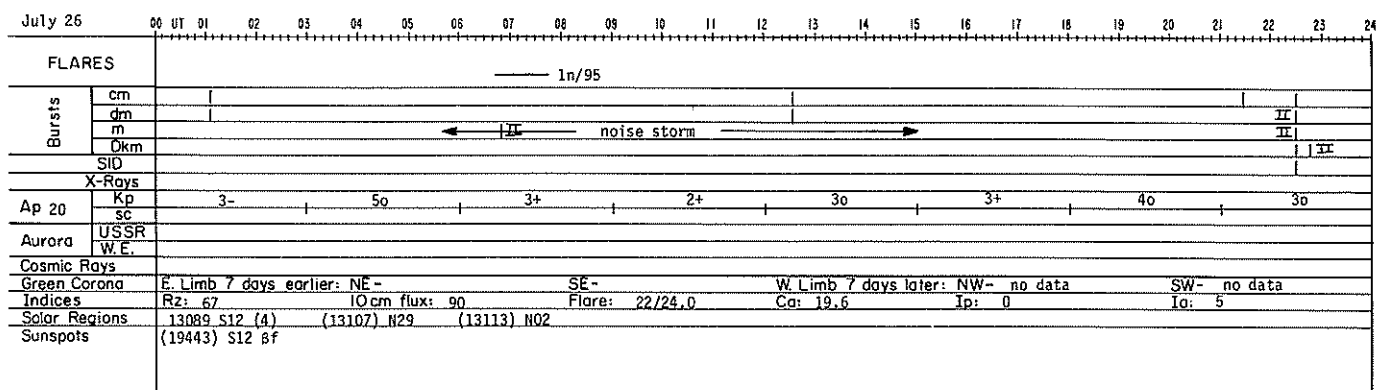
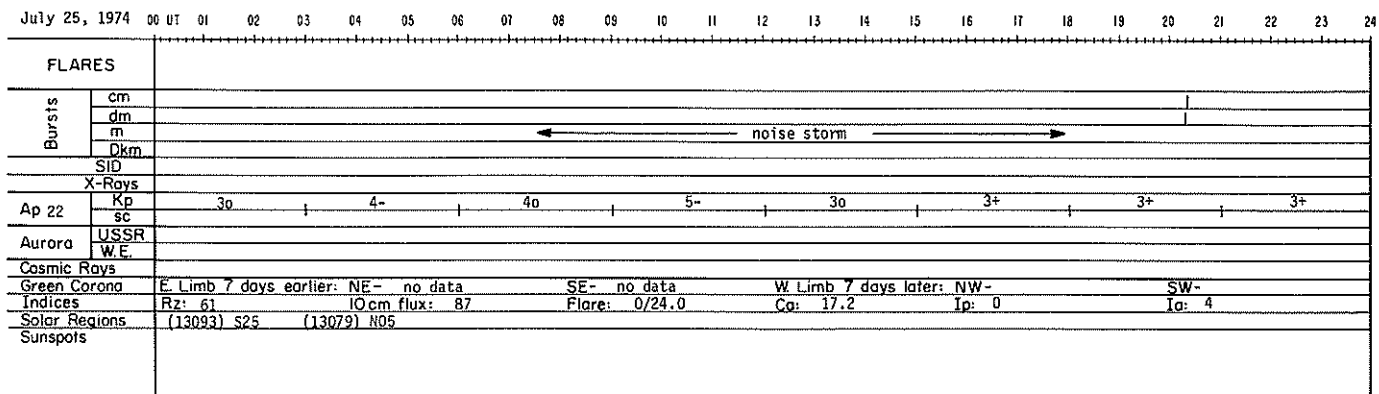


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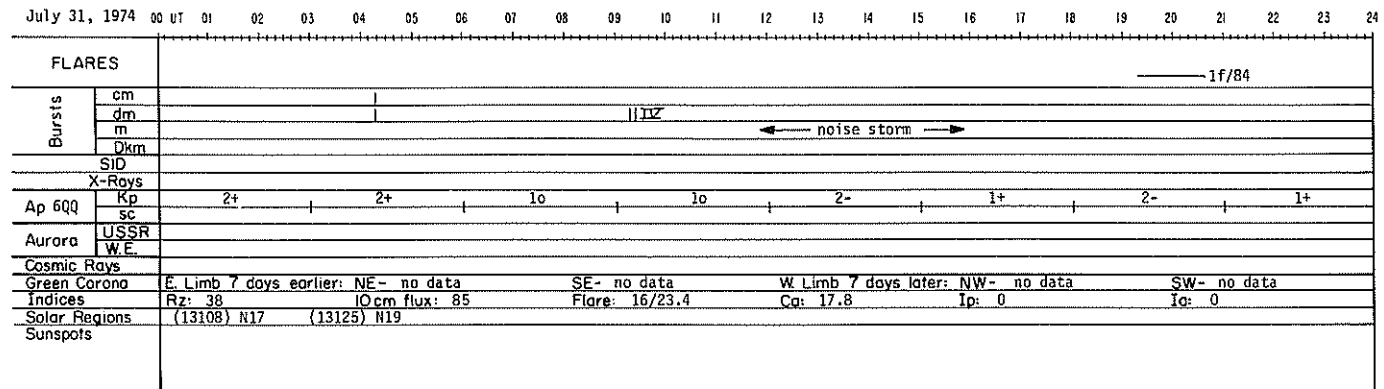
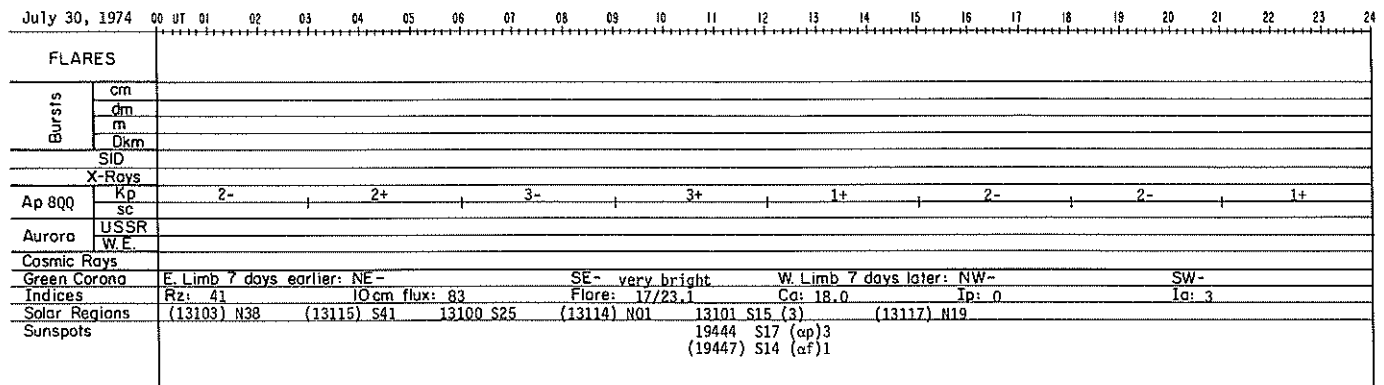
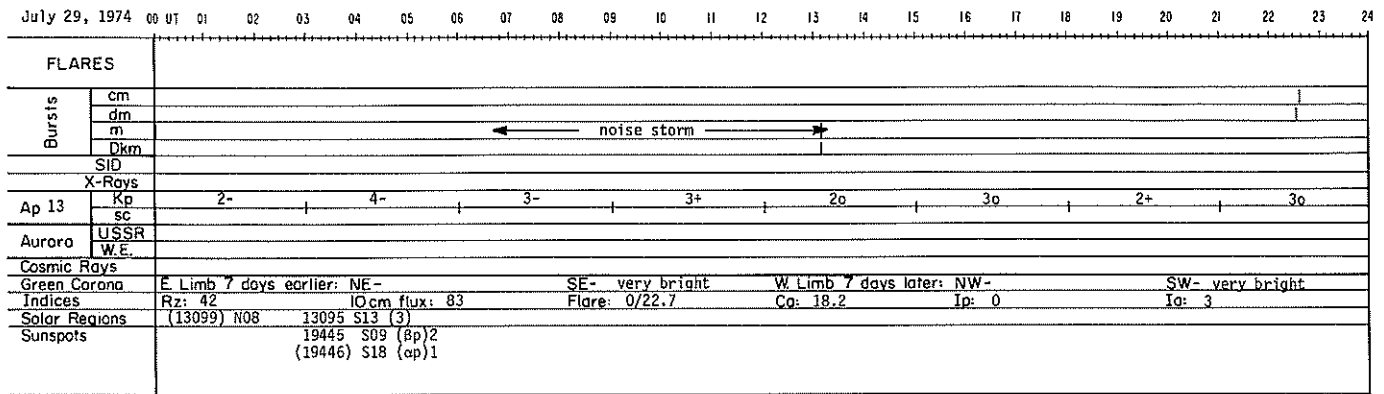


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REGIONAL FLARE INDEX

			JULY 1974		FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE			
13037	S10	74/07/02.7	74/06/27	74/06/27	8.51	8.51	1
13043	S14	74/07/04.1	74/06/29	74/07/10	1739.64	144.97	59
13047	N 9	74/07/05.2	74/06/30	74/06/30	3.72	3.72	1
13057	S 8	74/07/15.2	74/07/08	74/07/09	2.69	1.35	2
13088	S14	74/07/24.3	74/07/23	74/07/23	7.60	7.60	1
13084	S12	74/07/27.4	74/07/31	74/08/03	18.51	4.63	2
13095	S12	74/07/29.4	74/07/26	74/08/04	48.22	4.82	6

Note:

The Regional Flare Index and count of flares in each region has in previous months included each maximum of a multi-maximum event. This has caused some regions to appear to be more flare producing than is probably warranted. Beginning with April 1972 only the principal maximum of a multi-maximum event will be used in the calculation. Also note that only the Confirmed Events as selected for the "I.A.U. Quarterly Bulletin on Solar Activity" are included in the calculation.

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

MISCELLANEOUS DATA

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COSMIC RAY INDICES (Neutron Monitors)

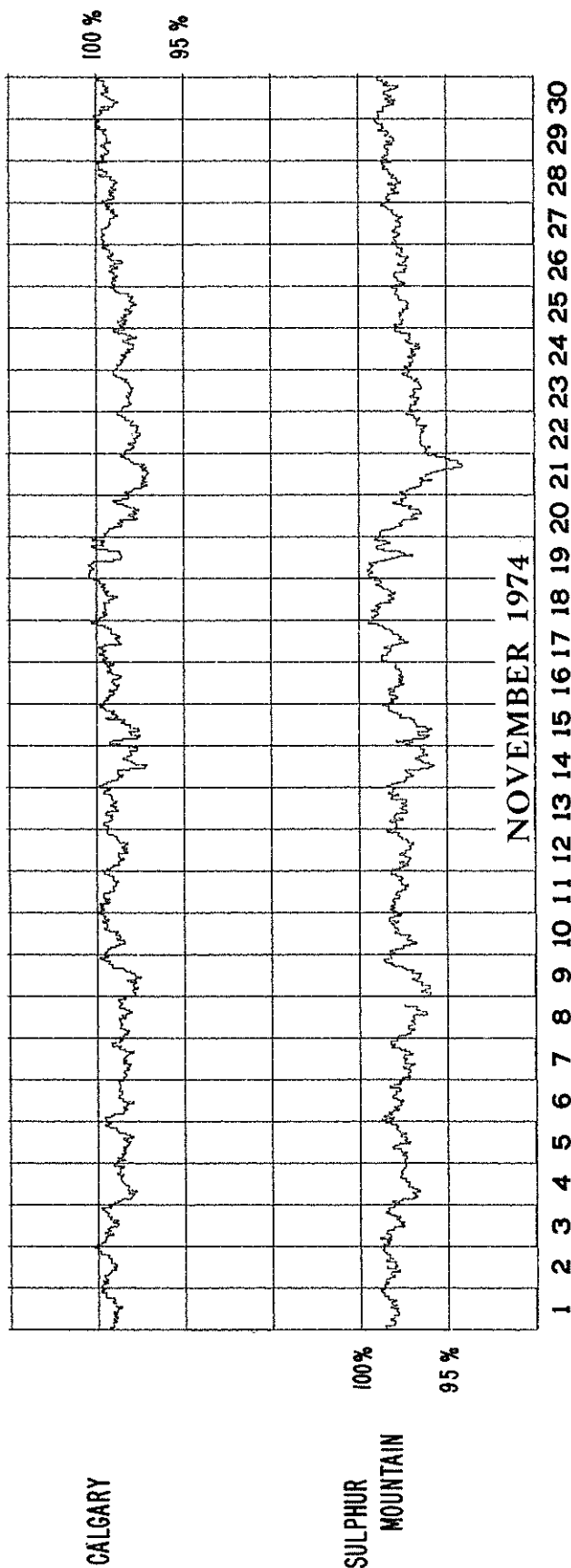
NOVEMBER 1974

NOV 1974	CALGARY	SULPHUR MT
	Average cts/hr	Average cts/hr
1	11587.4	8609.6
2	11622.6	8616.6
3	11610.0	8600.1
4	11508.8	8526.0
5	11523.8	8558.0
6	11528.1	8583.1
7	11501.6	8541.3
8	11505.9	8489.9 (20)
9	11496.6	8504.6
10	11588.9	8561.9
11	11604.8	8569.2
12	11540.6	8538.4
13	11592.6	8567.4
14	11491.1	8481.3
15	11522.8	8511.5
16	11578.9	8573.5
17	11608.7	8611.1
18	11626.4	8646.7
19	11653.2	8646.6
20	11504.9	8543.7
21	11400.4	8392.0
22	11443.2	8452.5
23	11482.0	8482.6
24	11484.8	8504.3
25	11480.7	8548.9
26	11568.9	8547.0
27	11602.2	8579.9
28	11598.7	8599.3
29	11629.2	8626.0
30	11617.4	8624.2
MEAN	11550.2	8554.6

() Number of hours for which data are available if less than 24.

COSMIC RAY INDICES
(Neutron Monitors)

NOVEMBER 1974



UAG Series of Reports

Prepared by World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado, U.S.A.

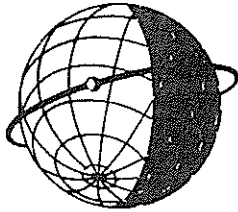
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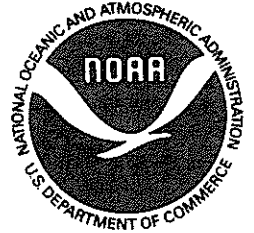
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