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Solar - Geophysical Data

NO. 379 MARCH 1976

Part II (Comprehensive Reports)

DATA FOR
SEPTEMBER 1975
AUGUST 1975
& MISCELLANEA

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

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To standardize referencing these reports in the open literature, the following format is recommended:

Solar-Geophysical Data, 366 Part I (or Part II), pages, February 1975, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80302)

SOLAR - GEOPHYSICAL DATA

No. 379

Issued in two parts

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H α SOLAR FLARES

SEPTEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg	
					LAT.	MR. DIST.											
GRP62825	01	0805+2	0805+4	0814	N08	E53	.793	13826	5.3	9	-F						
CATA	01	0805	0805	0815	N07	E52	.783	13826	5.2	10	-N	1	0805	56	.9		
MONT	01	0807	0809	0812	N10	E54	.803	13826	5.4	5	-F		0809	20			
GRP62826	01	1507+3	1509+1	1522	N03	E52	.787	13826	5.5	15	1N			130	2.1		
BOUL	01	1507	1509	1530	N05	E50	.763	13826	5.4	23	-N	2	1507	107	1.7		
CATA	01	1510	1510	1525D	N03	E51	.777	13826	5.5	15D	1N	3	1510	140	2.3		
ATHN	01	1512E	1512U	1519	N03	E54	.808	13826	5.7	7D	-N	3		144		F DE	
ATHN	01	1512E	1512U	1519	N03	E54	.808	13826	5.7	7D	-N	3		144		F DE	
827 PALE	01	1933	1935	1945	N07	E47	.727	13826	5.3	12	-F	3		32		DE	
GRP62828	02	0923+2	0925+1	0940	N07	E39	.625	13826	5.3	17	-N			100	1.3	FHU	
MONT	02	0923	0926	0941	N09	E40	.638	13826	5.4	18	-N					E	
CATA	02	0925	0925	0945	N08	E38	.611	13826	5.2	20	-N	3	0926	110			
ATHN	02	0925E	0925U	0938	N06	E39	.626	13826	5.3	13D	-N	4	0925	56	.7		
ATHN	02	0925E	0925U	0938	N06	E39	.626	13826	5.3	13D	-N	4		112		U F	
HURB	02	0931	0932	0942	N07	E40	.639	13826	5.4	11	1N			112		U F	
	02	1648	1700													H	
	02	1948	2029														
	02	2040	2111														
	02	2125	2140														
	02	2151	2231														
	02	2259	2314														
	02	2323	2348														
	03	0032	0033														
	03	0049	0050														
	03	0053	0102														
829 CULG	03	0427E	0430	0437D	N08	W28	.466	13820	1.1	100	-F		0430	30	.3		
830 CATA	03	0815	0815	0825D	N04	E26	.439	13826	5.3	100	-F	3	0815	28	.3		
831 MCMA	03	1238	1241	1247	N08	E25	.419	13826	5.4	9	-F		1241	20	.2	D	
832 PALE	03	2115E	2115U	2115D	N08	E22	.372	13826	5.5		-F	1		15			
	04	0122	0136														
GRP62833	04	0645	0645	0723	N05	W03	.065	13826	4.1	38	-F						
CATA	04	0645	0645	0705D	N05	E01	.043	13826	4.4	20D	-F	3	0645	28	.3		
HTRP	04	0654E	0703	0723	N05	W08	.144	13826	3.7	29D	-F		0703	20	.2		
GRP62834	04	0911	0911	0925	N08	E10	.173	13826	5.1	14	-F					D	
HTRP	04	0911	0911	0925	N08	E10	.173	13826	5.1	14	-F		0911	20	.2	C	
KHAR	04	0915E		0918D	N09	E10	.175	13826	5.1	30	-F					C	
835 KHAR	04	1022E		1035D	N07	E07	.121	13826	5.0	13D	-F					D	
836 HTRP	04	1107	1109	1120	N06	E16	.275	13826	5.7	13	-F		1109	10	.1		
GRP62837	04	1302+1	1304+6	1339	N05	E10	.177	13826	5.3	37	-F			40	.4		
			1319+3														
RAMY	04	1302	1319U	1346	N05	E10	.177	13826	5.3	44	-F	4		40		DE	
MCMA	04	1303E	1304	1330	N04	E09	.165	13826	5.2	27D	-N		1304	20	.2	C	
HTRP	04	1303	1310	1340	N04	E10	.162	13826	5.3	37	-F		1310	20	.2	E	
CATA	04	1305E	1305	1315D	N04	E09	.165	13826	5.2	10D	-N	1	1305	56	.6		
RAMY	04	1319E	1322	1338	N06	E11	.191	13826	5.4	19D	-F	3		48		DE	
CATA	04	1325E	1325	1340	N04	E09	.165	13826	5.2	15D	-N	1	1325	56	.6		
838 HTRP	04	1340		1402D	N08	E12	.207	13826	5.5	22D	-F		1358	10	.1		
839 MCMA	04	1641	1642	1655	N04	E08	.149	13826	5.3	14	-N		1642	20	.2	D	
	04	2211	2215														
	04	2247	2259														
840 MEUD	05	1630	1638	1710	S07	E90	1.000	13832	12.4	40	-N		1638	70			
	06	0113	0130														
	06	0145	0230														
841 CATA	06	0700	0715	0735	S12	E89	1.000	13832	13.0	35	?F	3	0715	28			
	IMP	2 NO	MONT2	MEUD2	ABST1												
842 MONT	06	0813	0815	0818	S13	E86	.999	13832	12.8	5	-F		0816	20		C	

H α SOLAR FLARES

SEPTEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE 1975 SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McNATH PLAGE REGION	CMP. DAY			MIN.	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR. AREA Sq. Deg.
					LAT.	NER. DIST.												
843 CATA	07	0655	0655	0705	N10	W29	.482	13826	5.1	10	-E	3		0655	28	.3		
	07	1853	1912	NO FLARE PATROL														
	07	2133	2140	NO FLARE PATROL														
	07	2150	2155	NO FLARE PATROL														
	07	2159	2222	NO FLARE PATROL														
GRP62844	08	0159+2	0200+9	0238	N09	W37	.597	13826	5.3	39	-N					.6	CG	
CULG	08	0159E	0200	0218D	N09	W37	.597	13826	5.3	19D	-F		P	0200	40	.5		
MANI	08	0201E	0205	0221D	N09	W37	.597	13826	5.3	20D	-F	3	P	0205	40	.5		
VORO	08	0201	0210	0238	N10	W37	.597	13826	5.3	37	-B		C	0210	72	1.0	CDG	
845 CATA	08	0715	0715	0735	N10	W24	.405	13826	6.5	20	-N	1		0715	28	.3		
GRP62846	08	0720+5	0721+4	0736	N10	W38	.611	13826	5.5	16	-N				70	.9		
ATHN	08	0720	0721	0731	N10	W38	.611	13826	5.5	11	-N	1		0721	82			
CATA	08	0725	0725	0740	N10	W39	.624	13826	5.4	15	-N	3		0725	56	.7		
847 MCMA	08	1620E		1626D	N09	W46	.714	13826	5.2	60	-F		P	1620	25	.4	E	
	08	1626	1633	NO FLARE PATROL														
848 BOUL	08	1832	1835	1848	N08	W47	.726	13826	5.2	16	-F	2	C	1835	64	.9		
	08	2046	2124	NO FLARE PATROL														
849 CULG	08	2200E	2202	2219D	S06	E45	.729	13832	12.3	19D	-F		C	2202	20	.3		
850 CATA	09	0635	0640	0645	S10	E44	.732	13832	12.6	10	-N	1		0640	56	.8		
851 BOUL	09	2144	2153	221E	N10	W82	.987	13826	3.8	32	-F	1	C	2153	10	.4		
GRP62852	10	1416+0	1419+2	1433	N09	W73	.952	13826	5.1	17	-F				40			
BOUL	10	1416	1419	1432	N10	W72	.946	13826	5.2	16	-F	2	C	1419	32	.9		
RAMY	10	1416	1421U	1434	N08	W75	.962	13826	5.0	18	-F	3	C		45		DE F	
	10	2145	2210	NO FLARE PATROL														
	11	0229	0230	NO FLARE PATROL														
	11	1839	1833	NO FLARE PATROL														
	11	1912	2017	NO FLARE PATROL														
853 PALE	11	2017E	2018U	2019D	S10	E05	.308	13832	12.2	20	-F	2	C		30		F	
	11	2019	2122	NO FLARE PATROL														
	11	2147	2315	NO FLARE PATROL														
	12	0022	0033	NO FLARE PATROL														
854 VORO	12	0105E	0109	0122	S07	E05	.260	13832	12.4	17D	-N		C	0109	63	.7	DL	
	12	0129	0130	NO FLARE PATROL														
855 MCMA	12	1430E	1430	144E	S09	E01	.280	13832	12.7	16D	-F		C	1430	60	.6	E	
	12	1801	1812	NO FLARE PATROL														
	12	1938	1953	NO FLARE PATROL														
	12	2052	2058	NO FLARE PATROL														
	12	2139	2150	NO FLARE PATROL														
	13	0219	0229	NO FLARE PATROL														
856 HTPR	13	1048	1050	1052	S08	W13	.342	13832	12.5	4	-F		C	1050	20	.2	E	
	13	1756	1803	NO FLARE PATROL														
	13	1922	1932	NO FLARE PATROL														
	13	2016	2020	NO FLARE PATROL														
	13	2125	2150	NO FLARE PATROL														
	14	0150	0305	NO FLARE PATROL														
857 ATHN	14	0956E	0956	1007	S08	W27	.514	13832	12.4	11D	-F	1		0956	66			
	14	2142	2200	NO FLARE PATROL														
	15	0033	0110	NO FLARE PATROL														
	15	0256	0302	NO FLARE PATROL														
858 ISTA	15	0805		0815	S06	W38	.645	13832	12.5	10	-F						4	
859 HTPR	16	1435E		1441D	S09	W57	.858	13832	12.3	6D	-F		C	1435	20	.3		

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H α SOLAR FLARES

SEPTEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
	17	0349	0359	NO FLARE PATROL													
860 BOUL	17	1746	1753	1825	N06	E09	.157	13846	18.4	39	-F	1	C	1753	96	1.0	
	18	0445	0457	NO FLARE PATROL													
	18	0507	0511	NO FLARE PATROL													
	18	0527	0530	NO FLARE PATROL													
861 ABST	18	0606	0607	0610D	N09	E01	.036	13846	18.3	40	-F		F	0607	105	1.1	EJKV
862 HURB	18	0806	0808	0822D	N08	E03	.054	13846	18.6	16D	?N						
	IMP.	1 NO	MON T2	HTPR2													
863 HURB	18	0842	0845	0900	N10	E02	.060	13846	18.5	18	?N						
	IMP.	1 NO	MON T2	HTPR2	CATA2												
GRP62864	18	1349+3	1352+3	1415	N08	W01	.023	13846	18.5	26	-N				80	.8	EG
MONT	18	1349	1352	1414	N09	W01	.036	13846	18.5	25	-N		C	1352	70		
BOUL	18	1351	1353	1415	N08	E00	.015	13846	18.6	24	-F	1	C	1353	107	1.1	
RAMY	18	1351E	1353	1415	N08	W02	.038	13846	18.4	24D	-F	4	C		63		CE
LVOV	18	1352	1355	1415	N09	W02	.047	13846	18.4	23	-N		C	1355	100	1.0	EG
HTPR	18	1354E		1403D	N08	W02	.038	13846	18.4	9D	-N		C	1354	40	.4	
865 ARCE	19	0940E		1000D	N09	W12	.208	13846	18.5	20D	-F		C	0940	97	1.0	T
GRP62866	19	1002+0	1003+0	1005	N09	W12	.208	13846	18.5	3	-F				30	.3	E
HTPR	19	1002	1003	1005	N09	W12	.208	13846	18.5	3	-F		C	1003	20	.2	
MONT	19	1002	1003	1005	N09	W13	.225	13846	18.4	3	-F		C	1003	40		E
867 KHAR	19	1047E		1053D	N09	W13	.225	13846	18.5	6D	-F		P				D
GRP62868	19	1112+3	1114+1	1130	N08	W13	.224	13846	18.5	18	-F				20	.2	D
HTPR	19	1112	1114	1122	N08	W11	.190	13846	18.6	10	-F		C	1114	10	.1	
KHAR	19	1113E		1130D	N09	W13	.225	13846	18.5	17D	-F		C				C
CATA	19	1115	1115	1130	N09	W12	.208	13846	18.6	15	-F	3		1115	28	.3	
HURB	19	1123	1124	1130	N08	W16	.274	13846	18.3	7	-N						D
GRP62869	19	1150>9	1159	1218	N09	W14	.242	13846	18.4	28	-N						
HURB	19	1150	1210	1230	N08	W16	.274	13846	18.3	40	1E						D
UPIC	19	1155E	1205	1220	N09	W15	.258	13846	18.4	25D	-N		P	1205	102		F
HTPR	19	1155	1159	1215	N09	W13	.225	13846	18.5	20	-N		C	1159	30	.3	E
MONT	19	1201	1205	1214	N09	W14	.242	13846	18.5	13	-F		C	1206	40		E
870 HTPR	19	1235	1239	1245	N09	W13	.225	13846	18.5	10	-F		C	1238	10	.1	
GRP62871	19	1245>9	1300	1318	N09	W14	.242	13846	18.5	33	-N						
HTPR	19	1245	1311	1325	N08	W14	.240	13846	18.5	40	-F		C	1311	10	.1	
HURB	19	1259	1300	1316	N10	W14	.244	13846	18.5	11	1N						
872 UPIC	19	1320	1340U	1400	N09	W17	.291	13846	18.3	40	-F		P	1340	61		
873 UPIC	19	1415E		1420	N10	W17	.293	13846	18.3	5D	-F		P	1415	41		
874 UPIC	19	1440E		1500	N10	W17	.293	13846	18.3	20D	-F		P	1440	82		F
875 HTPR	19	1522	1525	1532	N09	W13	.225	13846	18.7	10	-N		C	1528	20	.2	E
GRP62876	19	1659	1700	1730	N09	W16	.275	13846	18.5	32	-N				140	1.5	
HTPR	19	1658	1700	1710+2	N09	W14	.242	13846	18.7	10	-N		C	1700	40	.4	E
RAMY	19	1705E	1710	1732	N08	W17	.290	13846	18.4	27D	-N	4	C		148		FDE
RAMY	19	1706E	1712U	1730	N09	W17	.291	13846	18.4	24D	-N	4	V		128		FDE
877 BOUL	19	2052	2104	2125	N06	W15	.258	13846	18.7	33	-F	1	C	2109	64	.7	
878 ABST	20	0508	0510	0516	N09	W25	.420	13846	18.3	8	-F		C	0510	87	1.0	DJ
GRP62879	20	0640+2	0640+4	0701	N09	W25	.420	13846	18.4	21	-F				50	.6	EJ
CATA	20	0640	0640	0705D	N09	W24	.404	13846	18.5	25D	-N	3		0640	28	.3	
BUCA	20	0640		0710	N10	W26	.436	13846	18.3	30	-F		C	0655	107	1.3	E
ABST	20	0642	0643	0648	N09	W26	.435	13846	18.3	6	-F		C	0643	70	.8	DJ
HTPR	20	0642	0644	0656	N09	W26	.435	13846	18.3	14	-F		C	0644	60	.6	E
880 HTPR	20	0952	0954	0958	N06	E36	.585	13859	23.1	6	-F		C	0954	10	.1	

H α SOLAR FLARES

SEPTEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE 1975 SEP	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McNATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
GRP62881	20	1006>9	1025+5	1057	N05	E36	.586	13859	23.1	51	-F						DH	
KHAR	20	1006E		1033C	N06	E37	.599	13859	23.2	270	-F						DH	
HTRP	20	1016	1025	1054	N05	E35	.572	13859	23.1	38	-F							
CATA	20	1025	1330	1100	N05	E36	.586	13859	23.1	35	-F	3	1018	20	.2			
													1030	5	.1			
882 HTRP	20	1215	1220	1236	S07	E56	.844	13860	24.7	21	-F		1220	20	.3			
	20	2220	2231	NO FLARE PATROL														
	20	2243	2300	NO FLARE PATROL														
	21	0019	0027	NO FLARE PATROL														
883 RAMY	21	1515E	1517	1550D	N26	W71	.939		16.3	350	1B	4	V		190		DE	
	21	1608	1620	NO FLARE PATROL														
	21	2200	2213	NO FLARE PATROL														
	22	0103	0114	NO FLARE PATROL														
	22	0140	0148	NO FLARE PATROL														
	22	0150	0215	NO FLARE PATROL														
884 CATA	22	0810	0810	0840	N06	E11	.190	13859	23.2	30	-N	1	0810	28	.3			
885 KHAR	22	0842E	0845	0912D	N06	E12	.207	13859	23.3	300	-F						H	
886 KHAR	22	0945E	0952	1018D	N06	E10	.173	13859	23.2	330	-F						DH	
GRP62887	22	1045+5	1049+2	1055	N05	E11	.193	13859	23.3	10	-F						H	
KHAR	22	1045E	1049	1052D	N06	E11	.190	13859	23.3	70	-F						H	
CATA	22	1050	1050	1055	N05	E11	.193	13859	23.3	5	-F	1	1050	28	.3			
888 UPIC	23	0920E		0935	N10	W68	.922	13846	18.3	150	-F		0920	61				
889 UPIC	23	1000E		1005	N10	W68	.922	13846	18.3	50	-F		1000	82			F	
890 HTRP	24	1432	1433	1435	S02	E28	.490	13862	26.7	3	-F		1433	10	.1			
891 BOUL	24	1557	1604	1613	S01	E28	.486	13862	26.8	16	-F	2	1604	10	.1		8	
	25	0141	0145	NO FLARE PATROL														
	25	0206	0223	NO FLARE PATROL														
	25	0226	0234	NO FLARE PATROL														
	25	0237	0245	NO FLARE PATROL														
	25	0328	0343	NO FLARE PATROL														
	25	0350	0410	NO FLARE PATROL														
	25	0449	0457	NO FLARE PATROL														
GRP62892	25	0613E	0614+0	0617	N08	W30	.496	13859	23.0	4	-F			20	.2		H	
ATHN	25	0613E	0614	0617	N08	W30	.496	13859	23.0	40	-F	4	C	16			DE H	
ATHN	25	0613E	0614	0617	N08	W30	.496	13859	23.0	40	-F	4	V	16			DE H	
	28	0333	0335	NO FLARE PATROL														
	28	0348	0447	NO FLARE PATROL														
	29	0201	0447	NO FLARE PATROL														

DAILY FLARE INDICES

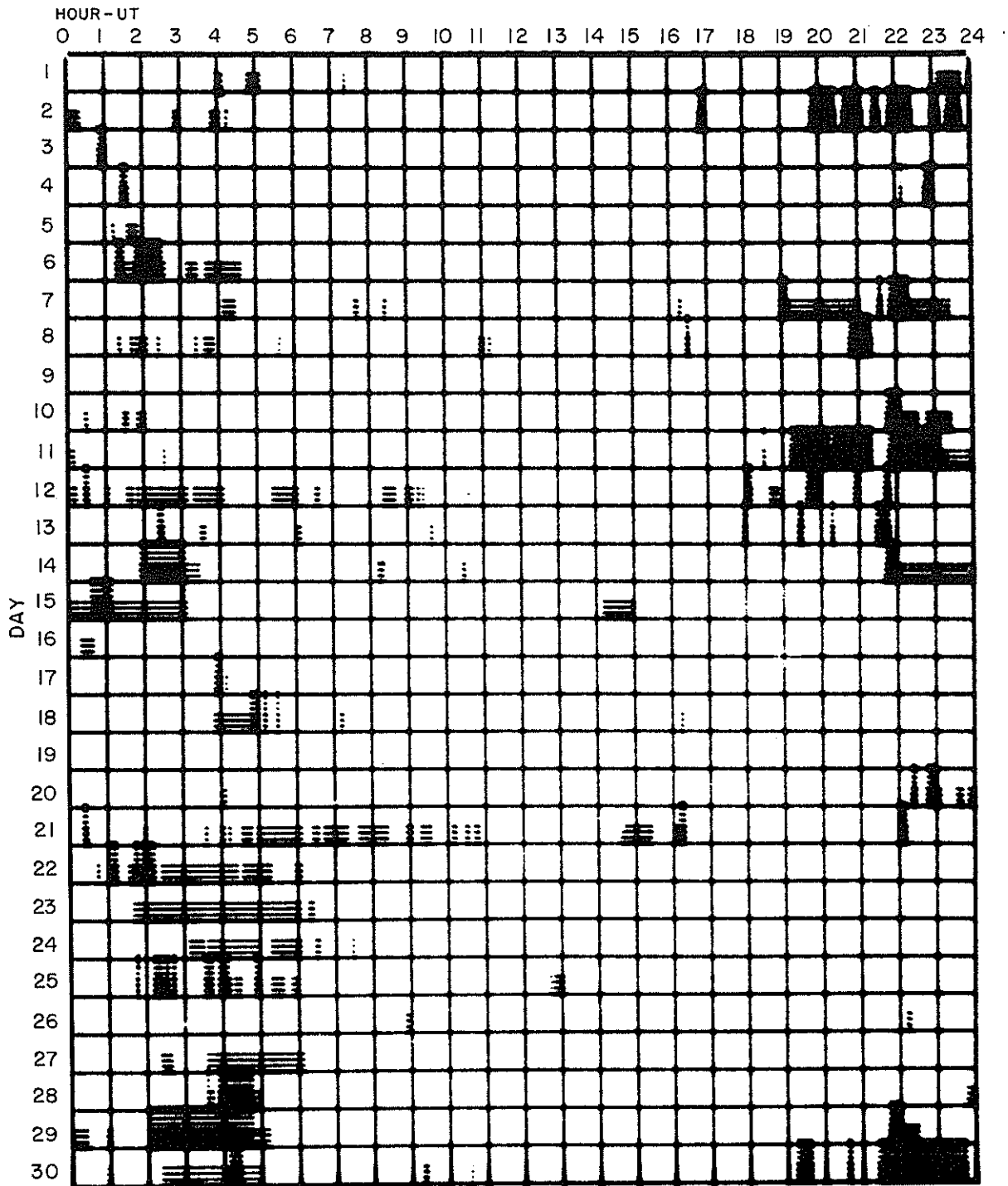
Includes all Flares

Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
750901.	12.72	24.0	750910.	.85	23.6	750919.	63.81	24.0
750902.	5.54	21.0	750911.	6.18	20.3	750920.	15.38	23.5
750903.	19.21	23.8	750912.	10.58	23.0	750921.	7.60	23.5
750904.	32.51	23.5	750913.	5.41	23.1	750922.	21.11	23.3
750905.	.84	24.0	750914.	3.55	22.5	750923.	1.69	24.0
750906.	.88	23.0	750915.	3.44	23.3	750924.	6.76	24.0
750907.	3.42	23.2	750916.	.84	24.0	750925.	.22	22.7
750908.	15.07	23.3	750917.	5.28	23.8	750926.	0.00	23.0
750909.	2.74	24.0	750918.	8.70	23.7	750929.	0.00	21.2

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

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

SEPTEMBER 1975



- | | | | | |
|------------|----------------|------------|----------------|-------------|
| Abastumani | Culgoora | Kharkov | McMath-Hulbert | Tachkent |
| Arcetri | Haute Provence | Kiev | Meudon | Tehran |
| Athènes | Herstmonceux | Kodaikanal | Mitaka | Upice |
| Boulder | Huancayo | Locarno | Monte Mario | Voroshilov |
| Bucharest | Hurbanovo | Lvov | Palehua | Wendelstein |
| Catania | Istanbul | Manila | Ramey | 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
SEPTEMBER 1975

SEP 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT		MINUTES	PEAK		
1	2695 PENT	1 S	0047	0047.7	1		1.2	0.6	
	100 GORK	6 S	0451	0451.2	1.3		60	30	
	100 GORK	41 IF	0540.4	0540.5	1.1		60		
	100 GORK		0540.4	0541			25		
	100 GORK	4 SF	0553.4	0557.5	5.9		50		
	260 ONDR	8 S	0711.3	0711.3	0.2		8		
	260 ONDR	3 S	1034.2	1034.8	2		5	2	
	550 KIEV	41 F	1216.3	1217.2	1.9		39		
	550 KIEV	6 S	1235	1235.2	0.4		32		
	550 KIEV	41 F	1248.2	1249.5	2.7		33		
	550 KIEV	8 S	1407.1	1407.1	0.1		32		
	550 KIEV	3 S	1451.7	1451.7	0.2		32		
	2800 OTTA	21 GRF	1505	1510	50		4.8	2	
	1420 BOUL	23 GRF	1506	1507.5	10		3	1	
	2800 OTTA	2 S/F	1507	1508.9	3		2	1	
	2695 BOUL	1 S	1508	1509.5	3.5		4	1	
	2800 OTTA	20 GRF	1932	1935	40		0.8	0.3	
	18 MCHA	6 S	2142	2144	3				1
2	221 ABST	41 F	1039.2	1041	2		5		
	550 KIEV	4 S/F	1054	1054.5	0.2		42		
	113 POTS	48 C	1416.4	1416.7	0.6		200	40	
	410 SGMR	6 S	1833.6	1834.2	1.1		1.9	0.6	
	245 SGMR	6 S	1833.8	1834.2	1.1		13.4	4	
606 SGMR	1 S	1833.9	1834.1	0.5		4.5	1.3		
4	2000 TYKW	5 S	2306.5	2307.2	2.5		3	1	OR
	2695 PENT	1 S	2306.8	2307.2	2		4.2	2	
	2695 PENT	29 FBI	2308.8	2308.8	40		1.6	0.9	
	3750 TYKA	5 S	2306	2307	3		3	1	OL
	2695 BOUL	23 GRF	2307	2308	21		8	3	
6	500 HIRA		0035.3	0038			3		
	500 HIRA		0035.3	0036.5			11		
	500 HIRA	45 C	0035.3		4			1	
	2800 OTTA	20 GRF	1135	1202	55		2	1	
	260 ONDR	45 C	1138.7	1139.5	2		35		
	260 ONDR	2 S/F	1145.3	1145.3	0.3		23		
	2800 OTTA	20 GRF	1250	1310	50		1	0.5	
	260 ONDR	8 S	1346.2	1346.2	0.2		40		
	2800 OTTA	20 GRF	1405	1427	50		1.4	0.7	
	2900 OTTA	27F RF	1505		205		1.8	1.6	
	2900 OTTA	24 R	1505	1515	10		1.8	0.9	
	1420 BOUL	8 S	1513.5	1514	3		5	2	
	2800 OTTA	24P R	1515		180		1.8		
	2800 OTTA	26 FAL	1815	1830	15		-1.8	-0.9	
	2800 OTTA	20 GRF	2105	2117	65		1.2	0.6	
2000 TYKW	5 S	2244	2244.4	1		1.1	0.3	OR	
3750 TYKA	5 S	2244	2244.4	1		2	1	OL	
9400 TYKW	5 S	2244	2244.3	1		3	1	OL	
7	3750 TYKA	5 S	0251	0251.3	1		3	1	
	2800 OTTA	20 GRF	1500	1504	15		1.4	0.7	OL, 248034F
	4995 BOUL	1 S	1738.5	1739.5	1.5		6	2	
	2800 OTTA	26 FAL	2000	2010	10		-0.8	-0.4	
	18 MCHA	6 S	2016	2018	2				1
8	3100 CRIM	1 S	0720	0722	4		7	2	
	3100 CRIM	24 R	1214	1224					
	2800 OTTA	1 S	1449.5	1451	2.5		1	0.5	
	2900 OTTA	21 GRF	1618	1623	25		0.8	0.5	
	2800 OTTA	1 S	1619.5	1619.9	2.5		1.6	0.8	
	2695 BOUL	1 S	1620	1621	2		4	1	
	2800 OTTA	20 GRF	1723	1732	32		0.6	0.3	
	2800 OTTA	20 GRF	1830	1834	40		2.8	1	
9	18 MCHA	6 S	1415	1417	2				1
10	2800 OTTA	1 S	1417	1418.5	2.5		3.8	1.9	
	2400 OTTA	29 FBI	1419.5	1419.5	40		0.8	0.4	
	2695 BOUL	4 SF	1417	1419	3.5		5	2	
11	221 ABST	6 S	0755	0755.2	0.8		34		
	221 ABST	45 C	0841	0841.5	1		79	32	
	221 ABST	41 F	1016	1016.2	0.5		57		
	221 ABST	6 S	1023.2	1023.5	0.5		71		
	221 ABST	6 S	1028	1028.2	0.5		51		
	221 ABST	6 S	1039	1039.2	0.5		39		
	221 ABST	41 F	1049.8	1050	2		48		
	221 ABST	45 C	1054	1054.2	3		79	29	
	2800 OTTA	20 GRF	1602	1604	28		0.8	0.4	
	2800 OTTA	20 GRF	2010	2017	35		2.4	1.2	
	12	18 MCHA	6 S	1605	1606	2			

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Sep 75

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
SEPTEMBER 1975

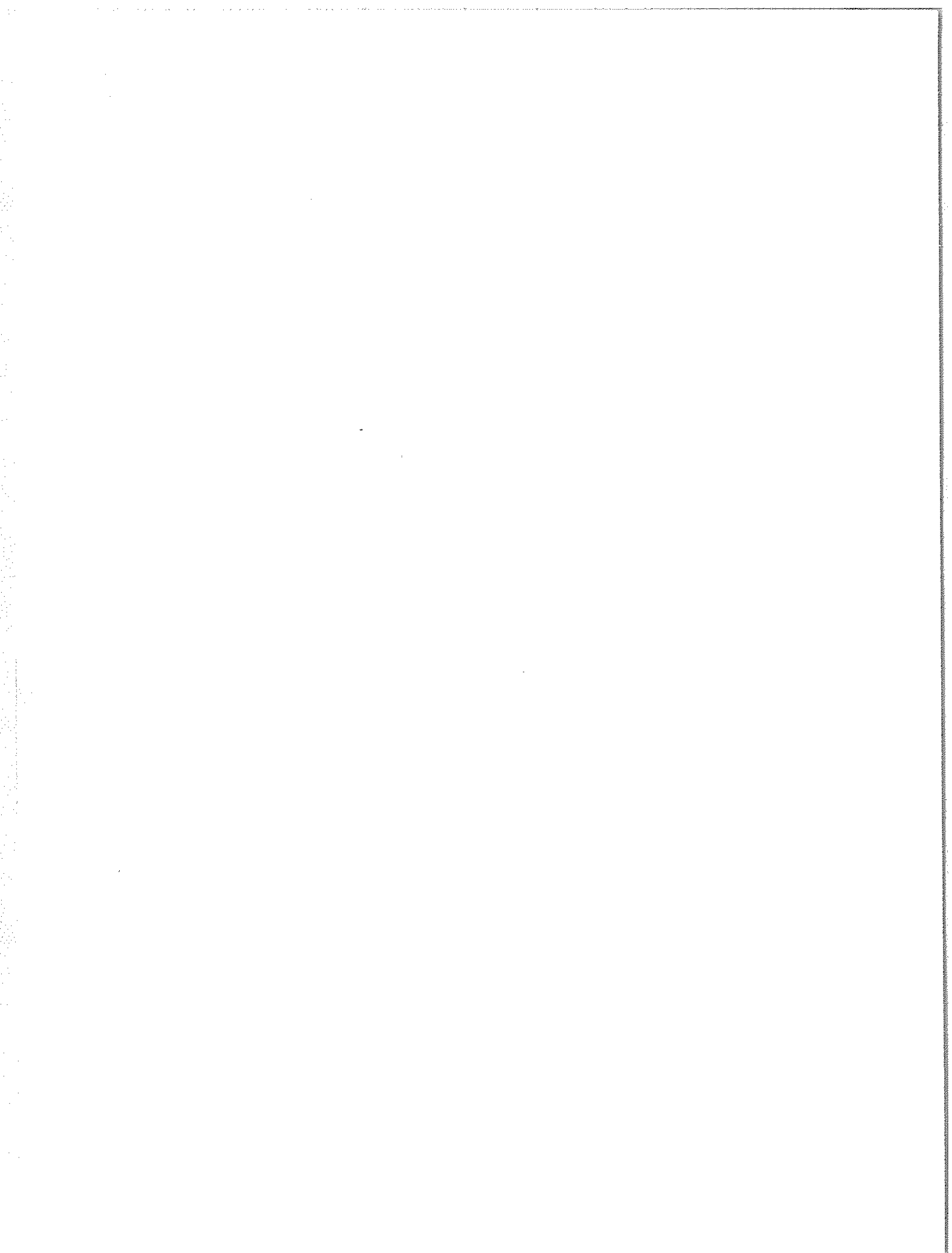
SEP 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	NEAR		
	2800 OTTA	21 GRF	1615	1640	100	3.6	1.8		
	2800 OTTA	8 S	1627	1627.4	0.5	0.6	0.3		
13	260 ONDR	8 S	0953.7	0953.7	0.2	10			
14	260 ONDR	4 S/F	1205.5	1205.5	0.5	50			
17	221 ABST	42 SER	0740	0740.2	0.5	16			
	221 ABST	42 SER	1025	1025.2	0.5	26			
	2800 OTTA	20 GRF	1755	1800	30	0.4	0.2		
18	3100 CRI4	24 R	1007	1246		3			
	260 ONDR	42 SER	1052.3	1056.3	19.5	19			
	1470 BERL	1	1158	1158.2	0.9	3.1	1.1		
	930 BORD	45 C	1158.3	1158.5	0.5	44	4		
	260 ONDR	4 S/F	1233.7	1234.7	2	24			
	18 MCMA	6 S	1313	1315	2			1	
	1470 BERL	6	1356	1358	3	3.9	1.4		
	930 BORD	45 C	1356.4	1358	2.6	29	3		
	260 ONDR	42 SER	1356.5	1412.1	42.5	34			
	808 ONDR	2 S/F	1356	1358	3	26	3.2		
	3000 BERL	3	1357	1358.5	4	1.7			
	536 ONDR	1 S	1357.3	1357.9	1.5	10	1.8		
	18 MCMA	41 F	1735	1740	5			1	
	2800 OTTA	20 GRF	1735	1815	205	1.8	0.9		
19	260 ONDR	8 S	0932.3	0932.3	0.2	18			
	260 ONDR	4 S/F	0934	0934.6	1	19			
	2800 OTTA	20 GRF	1202	1208.5	45	1.4	0.7		
	2800 OTTA	1 S	1432	1434	3	1.4	0.7		
	2800 OTTA	20 GRF	1655	1710	75	1.4	0.8		
	2800 OTTA	240 R	2045	2115	30	1.2	0.6		
	2800 OTTA	24P R	2115		120 0	1.2			
22	18 MCMA	6 S	1439	1441	2			1	
23	260 ONDR	7 C	1425.8	1425.8	2	20	4.5		
	1420 BOUL	1 S	1923	1924	2.5	2	1		
24	221 ABST	41 F	1026.5	1027.8	3	27			
25	221 ABST	42 SER	1012	1012.2	0.5	82			
	221 ABST	41 F	1023.8	1024	0.5	29			
26	4995 BOUL	23 GFR	1431	1431.5	19.5	8	3		
27	221 ABST	41 F	0819.2	0819.6	1.2	19			
	221 ABST	41 F	0834.8	0836	1.2	9			
	221 ABST	42 SER	0923.2	0923.8	1	21			
	2695 BOUL	1 S	1600	1601	2	3	1		
29	113 POTS	45 C	1413.2	1413.9	0.8	200	20		
30	221 ABST	45 C	0714.5	0715	1	34	13		
	221 ABST	42 SER	1020	1020.2	0.2	32			
	3100 CRI4	24 R	1021	1048		3			
	113 POTS	45 C	1434.7	1435.6	1	250	35		

Reports received from the following observatories:

ABST = Abastumani	DWIN = Dwingeloo	IZMI = Moscow Izmiran	OTTA = Ottawa	SYDN = Sydney
BERL = Berlin-Adlershof	GORK = Gorky	KIEV = Kiev	PENN = Penn. State Univ.	TORN = Torun
BORD = Bordeaux	HARS = Harestua	KISV = Kislovodsk	PENT = Penticton	TYKW = Toyokawa
BOUL = Boulder	HIRA = Hiraiso	MANI = Manila	POTS = Potsdam	TRST = Trieste
CRIM = Simferopol	HUAN = Huancayo	MCMA = McMath-Hulbert	SAOP = Sao Paulo	UPIC = Upice
	IRKU = Irkutsk	ONDR = Ondrejov	SGMR = Sagamore Hill	VORO = Voroshilov (Ussurisk)

Energetic Solar Particles and Plasma

The data for September 1975 has been delayed
by computer graphics problems.



AUGUST 1975 DATA

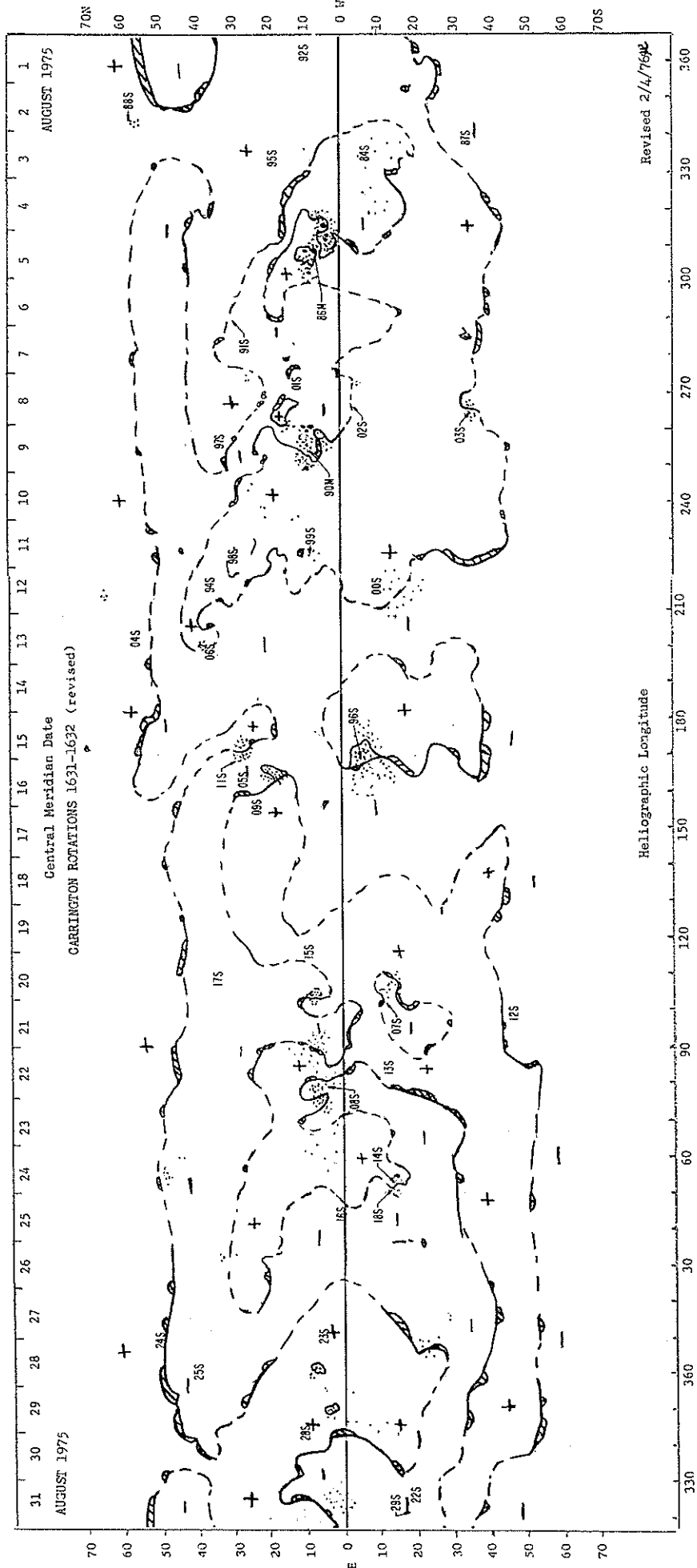
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<u>Abbreviated Calendar Record</u>	15-22
<u>Regional Flare Index</u>	22

ABBREVIATED CALENDAR RECORD

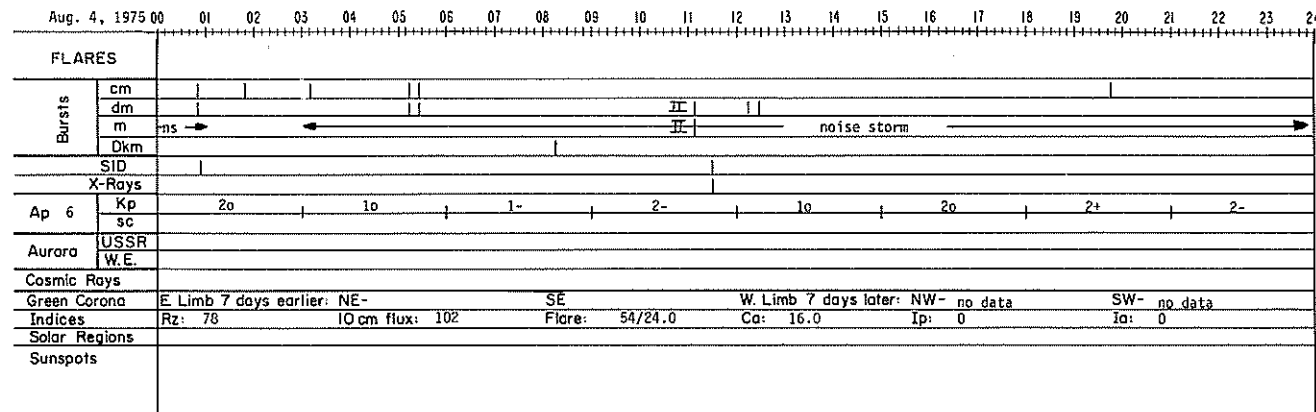
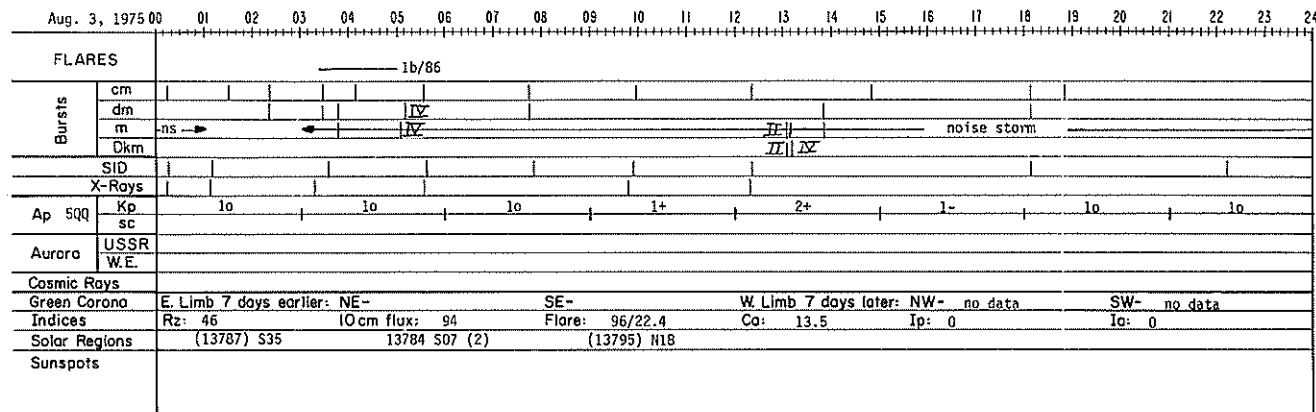
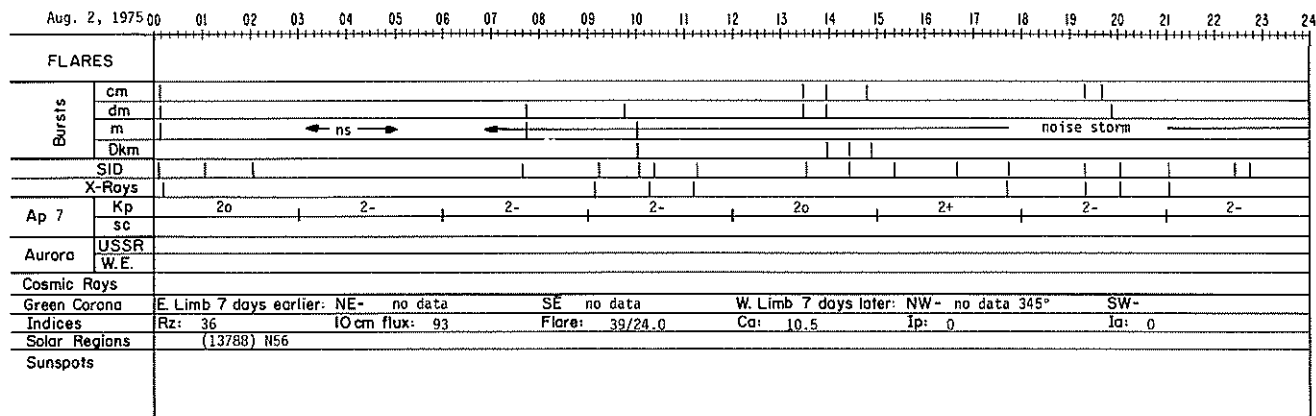
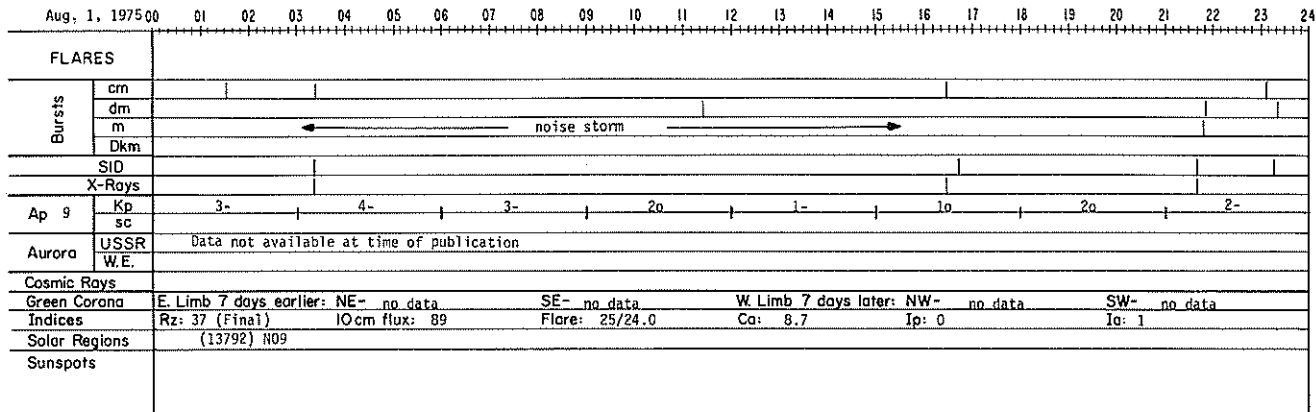
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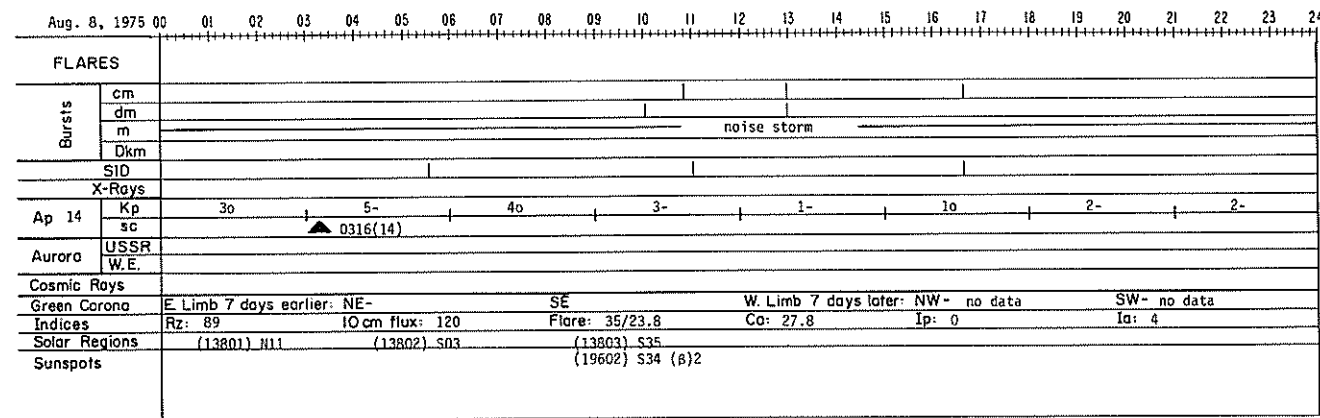
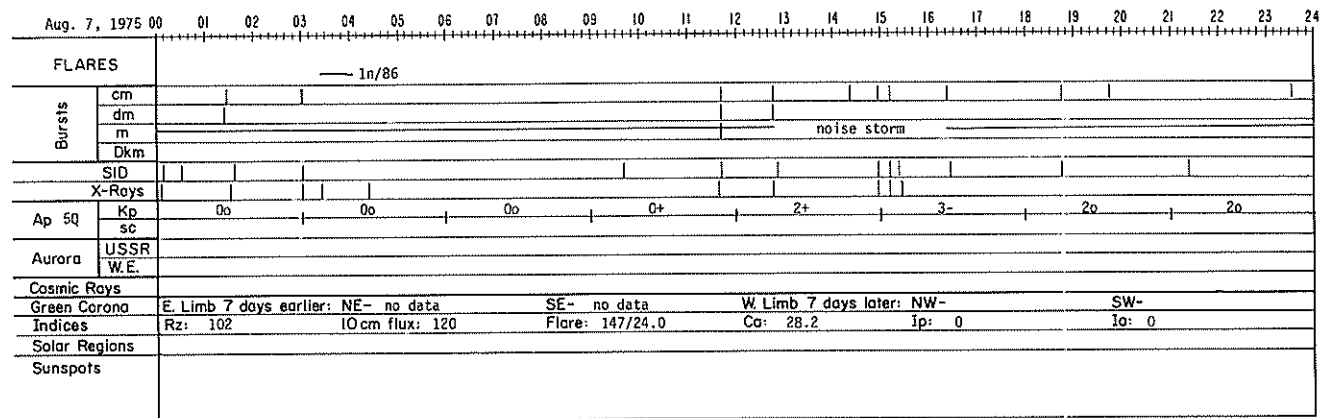
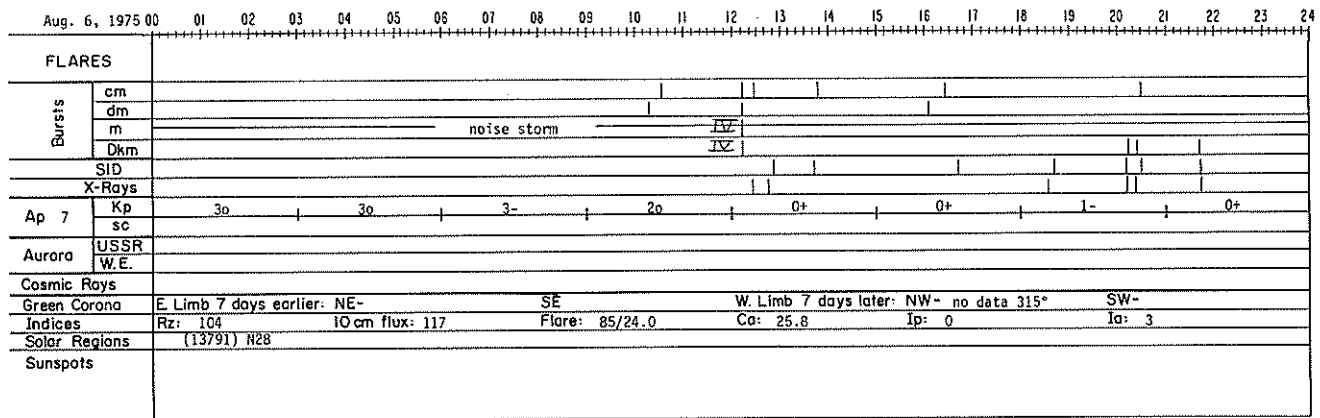
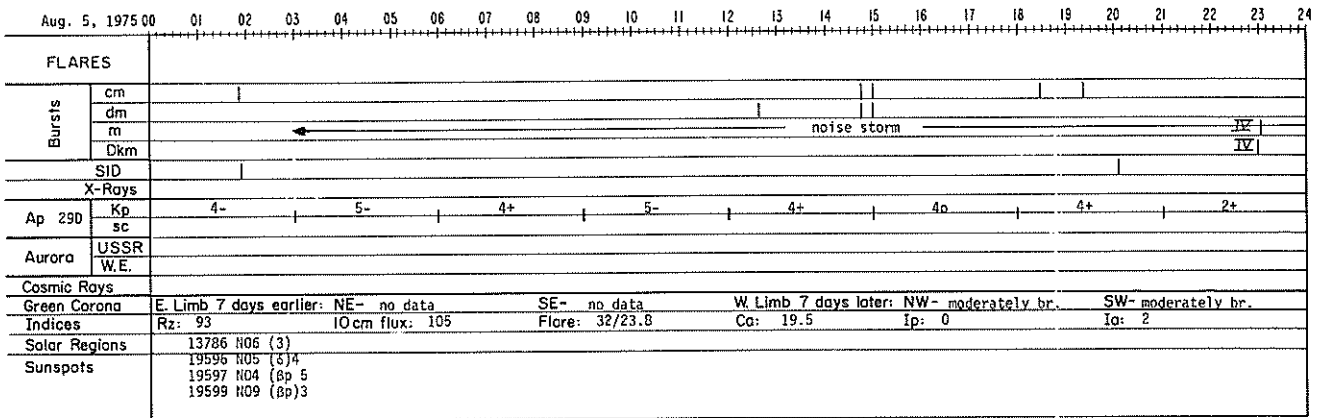


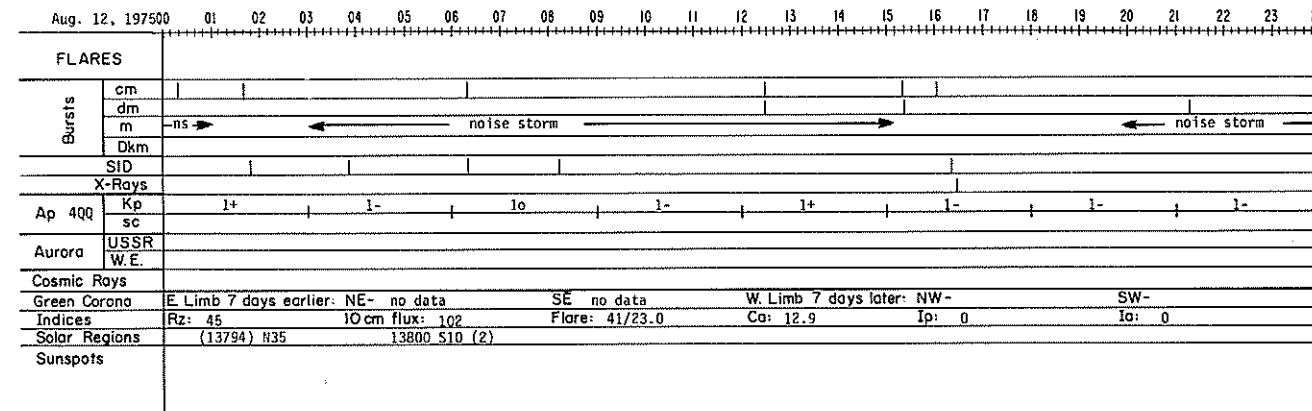
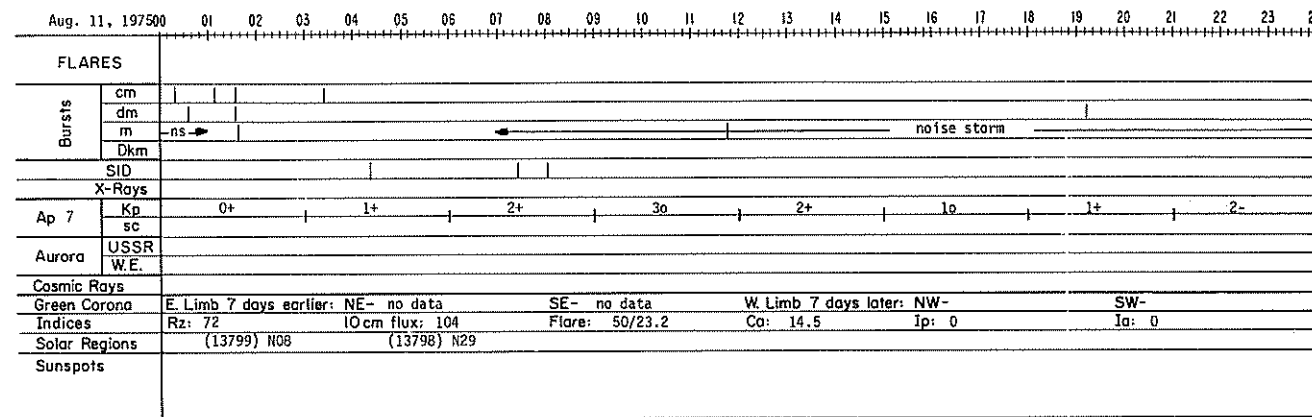
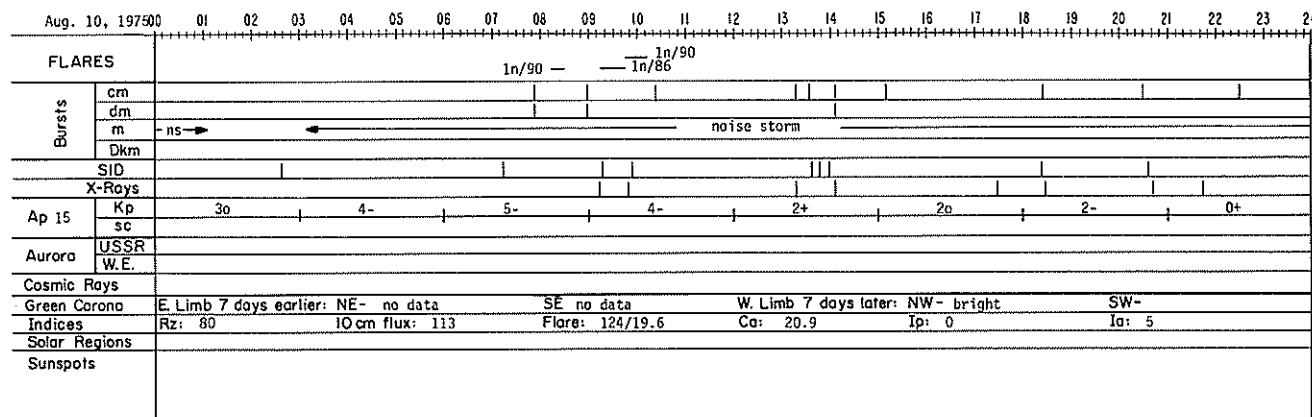
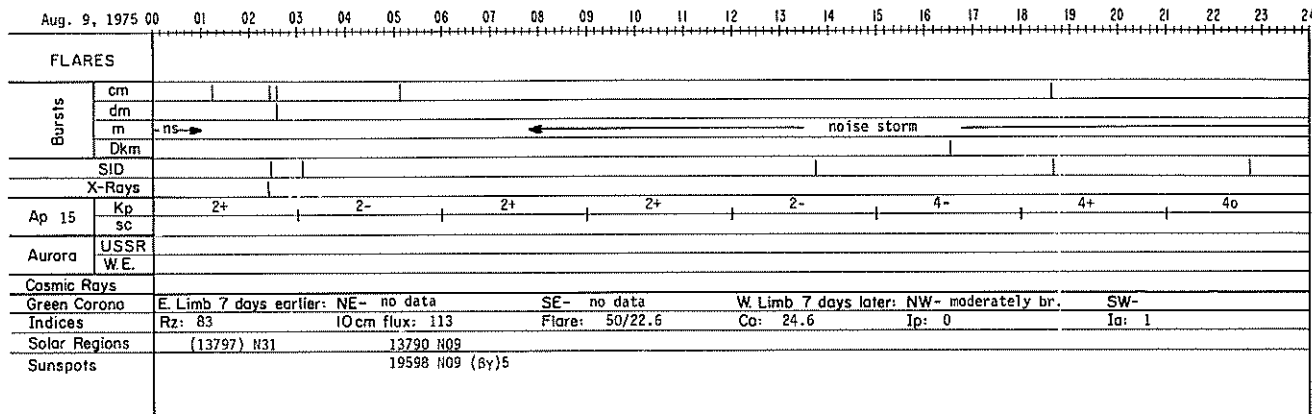
ABBREVIATED CALENDAR RECORD

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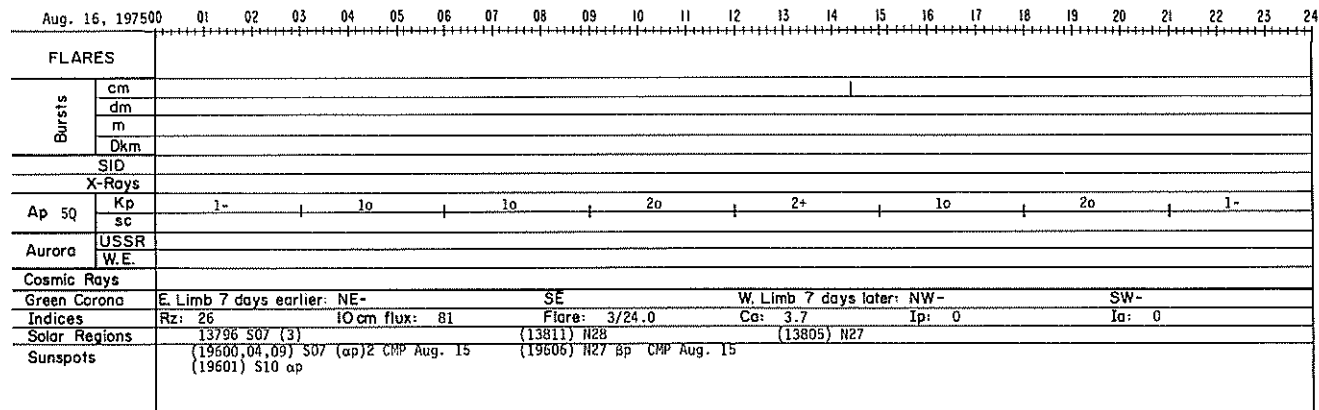
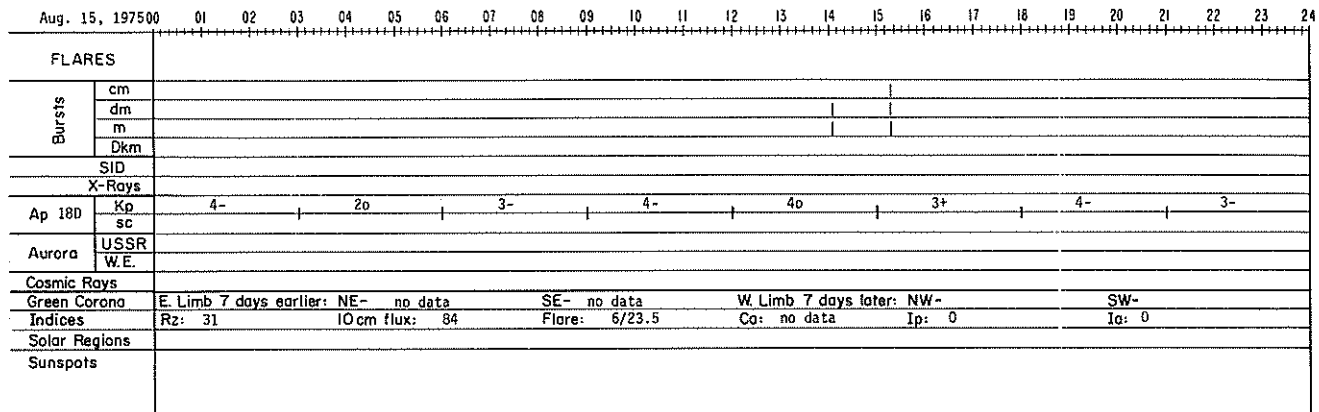
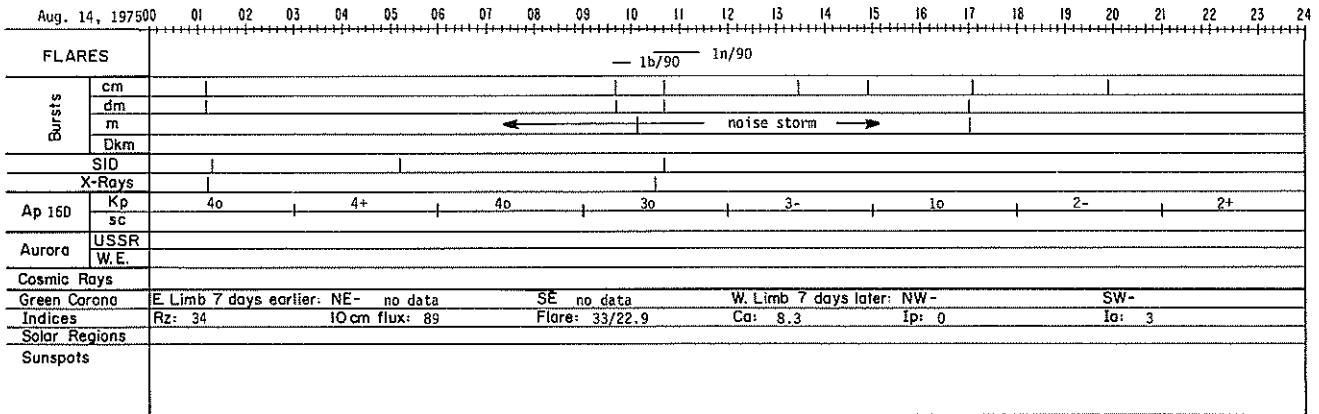
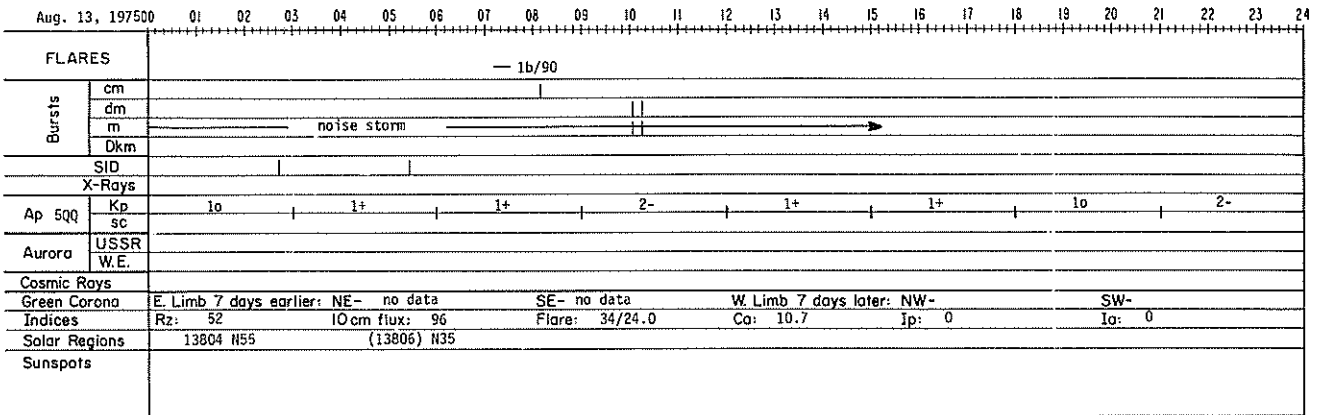


16
Aug 75





18
Aug 75



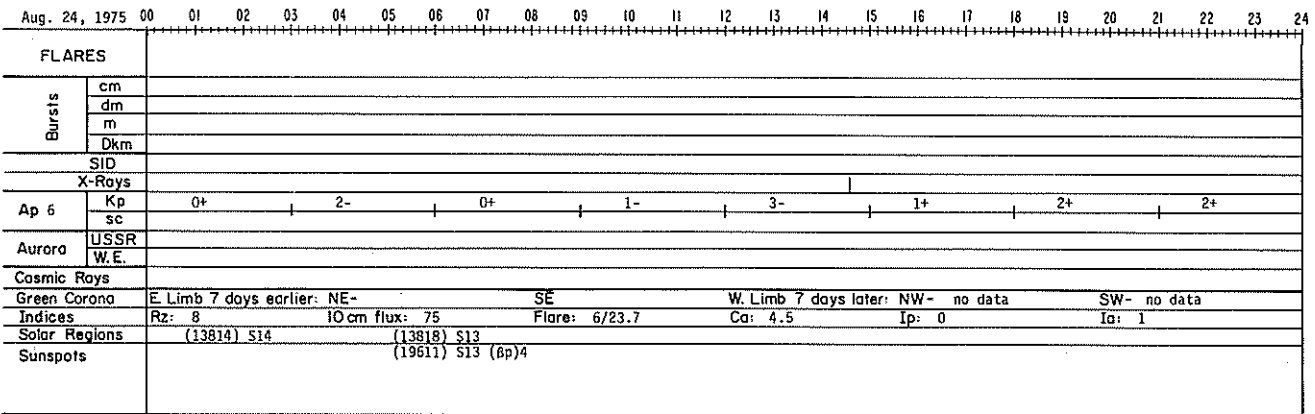
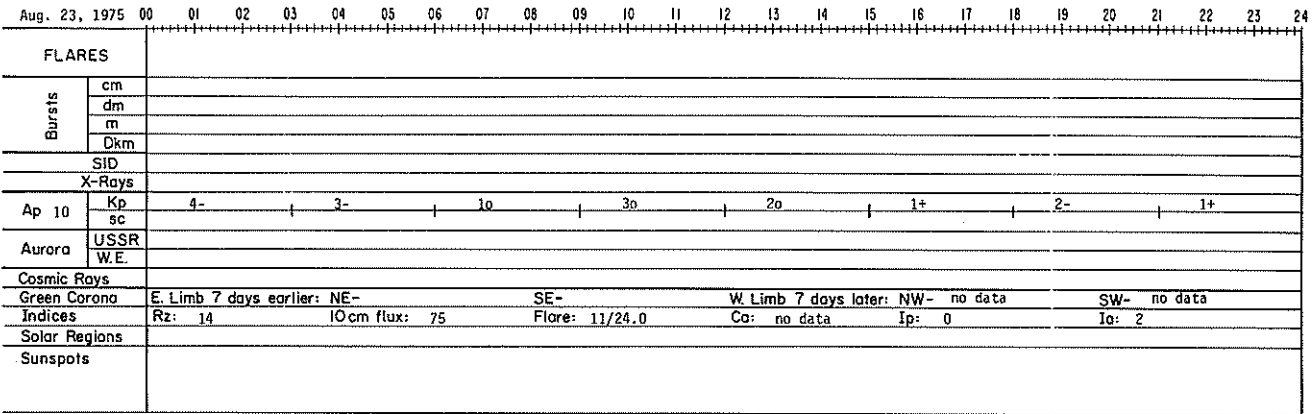
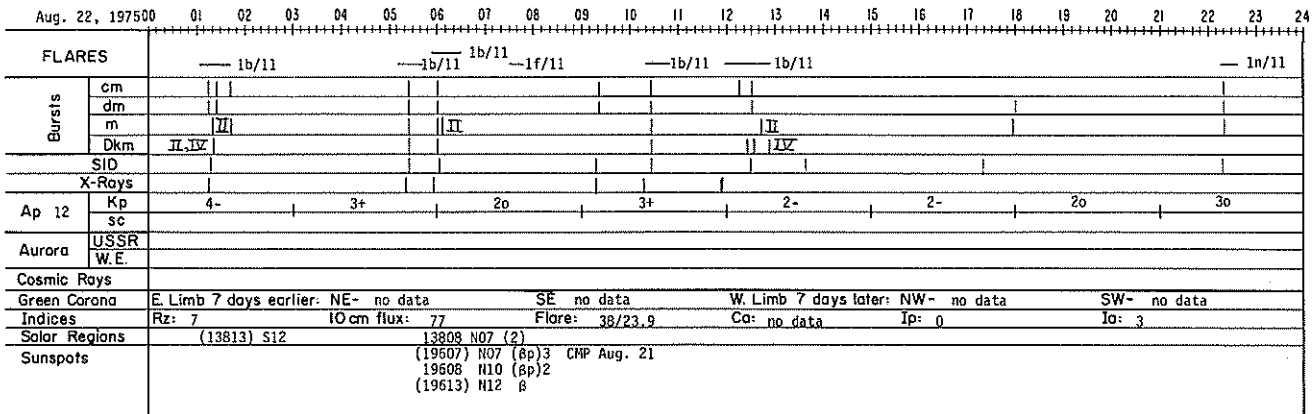
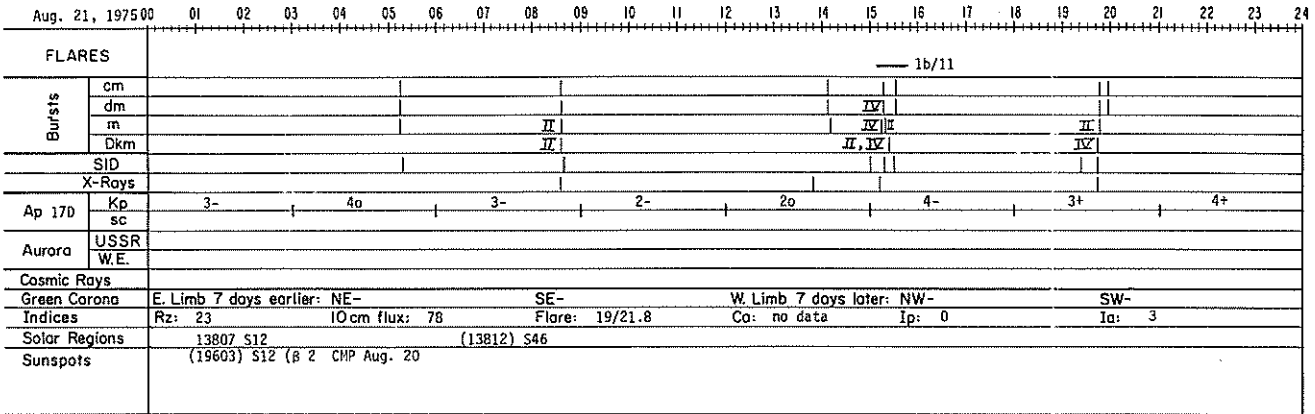
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FLARES																												
Bursts	cm																											
	dm																											
	m																											
	Dkm																											
SID																												
X-Rays																												
Ap 9	Kp	2+				3+				3-				2o					2-									
	sc																											
Aurora	USSR																											
	W.E.																											
Cosmic Rays																												
Green Corona	E. Limb 7 days earlier: NE-	no data						SE-	no data						W. Limb 7 days later: NW-	no data						SW-	no data					
Indices	Rz: 19	IO cm flux: 77						Flare: 8/23.7	Ca: 5.6						Ip: 0	Ia: 0												
Solar Regions	(13809) N23																											
Sunspots	(19605) N22 6f)2 CMP Aug. 16																											

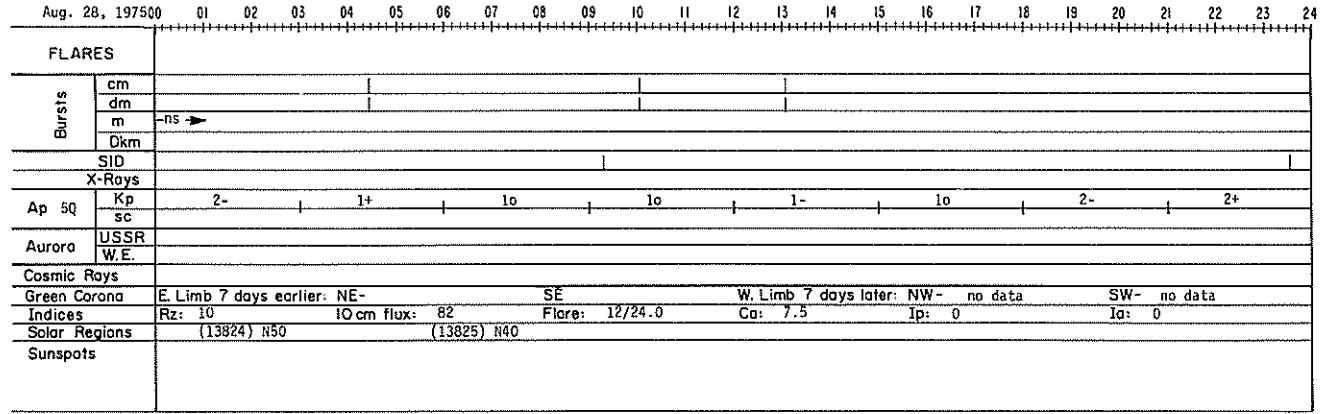
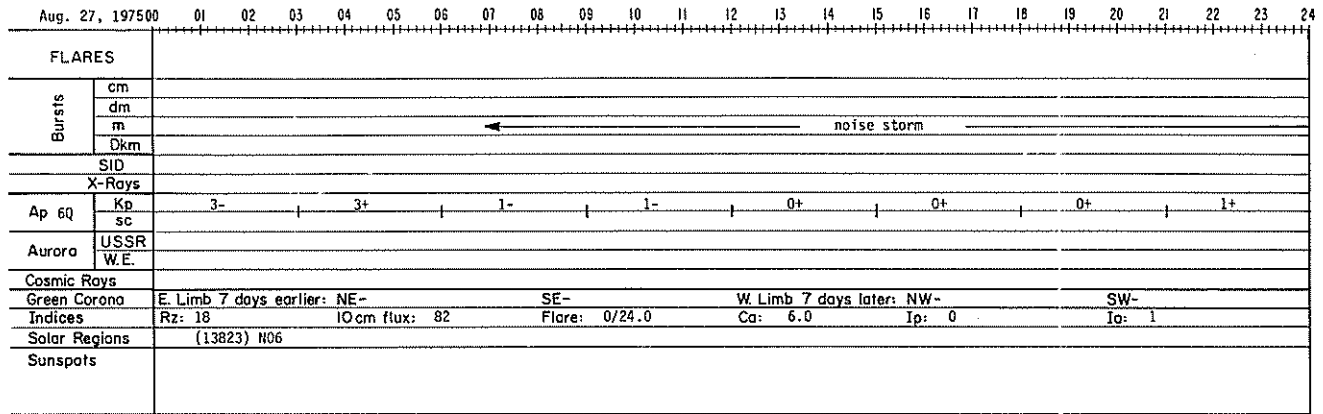
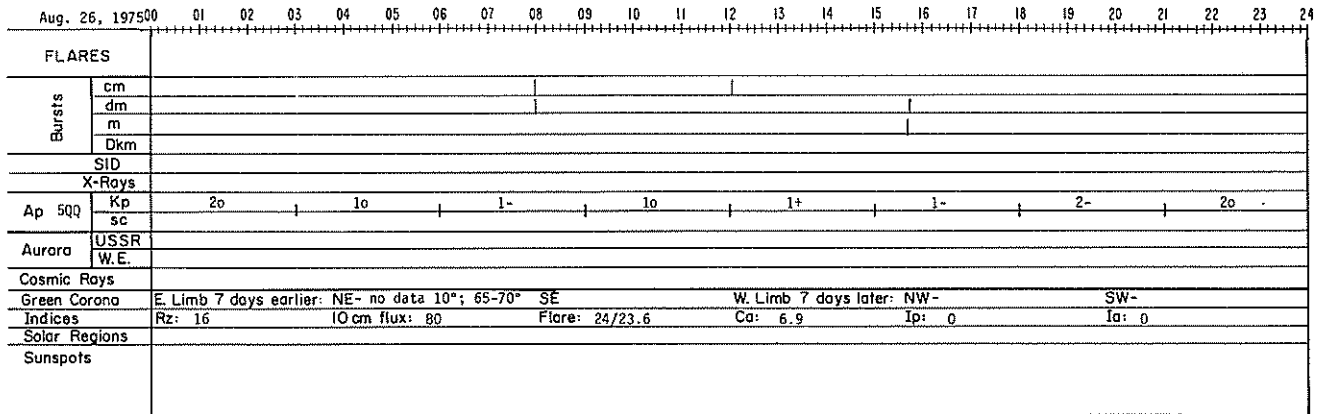
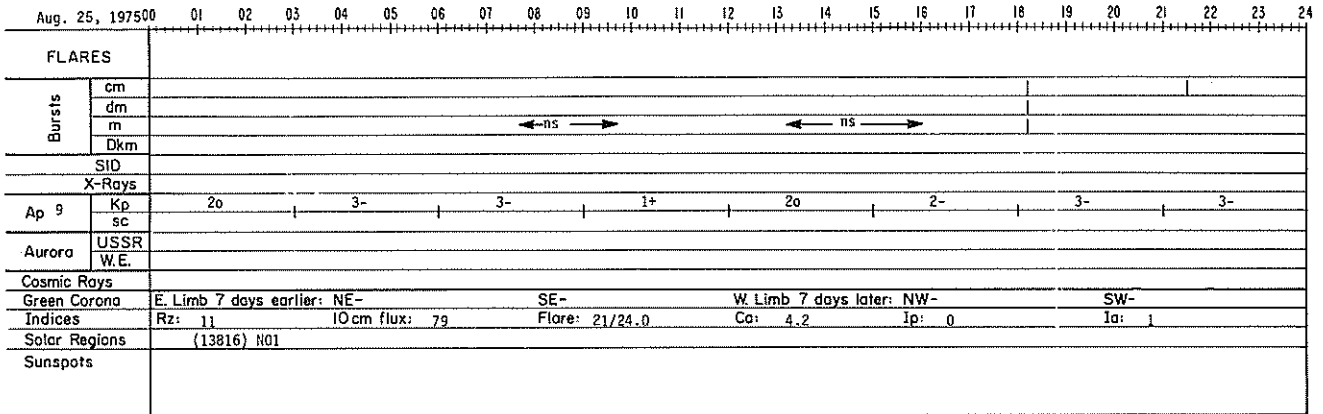
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FLARES																												
Bursts	cm																											
	dm																											
	m																											
	Dkm																											
SID																												
X-Rays																												
Ap 6Q	Kp	1o				1+				2o				3-					1o									
	sc																											
Aurora	USSR																											
	W.E.																											
Cosmic Rays																												
Green Corona	E. Limb 7 days earlier: NE-	no data						SE-	no data						W. Limb 7 days later: NW-	no data						SW-	no data					
Indices	Rz: 16	IO cm flux: 74						Flare: 0/24.0	Ca: 5.7						Ip: 0	Ia: 0												
Solar Regions																												
Sunspots																												

Aug. 19, 197500		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
FLARES																												
Bursts	cm																											
	dm																											
	m																											
	Dkm																											
SID																												
X-Rays																												
Ap 4QQ	Kp	1o				1-				1+				1o					1-									
	sc																											
Aurora	USSR																											
	W.E.																											
Cosmic Rays																												
Green Corona	E. Limb 7 days earlier: NE-	no data						SE-	no data						W. Limb 7 days later: NW-	no data						SW-	no data					
Indices	Rz: 8	IO cm flux: 75						Flare: 0/23.0	Ca: no data						Ip: 0	Ia: 0												
Solar Regions																												
Sunspots																												

Aug. 20, 197500		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
FLARES																												
Bursts	cm																											
	dm																											
	m																											
	Dkm																											
SID																												
X-Rays																												
Ap 15	Kp	0o				1-				1o				2o					4-									
	sc																											
Aurora	USSR																											
	W.E.																											
Cosmic Rays																												
Green Corona	E. Limb 7 days earlier: NE-	no data						SE-	no data						W. Limb 7 days later: NW-	no data						SW-	no data					
Indices	Rz: 22	IO cm flux: 75						Flare: 2/22.5	Ca: 7.9						Ip: 0	Ia: 1												
Solar Regions	(13815) N09 (13817) N34																											
Sunspots	(19610) N08 6f																											

20
Aug 75





22
Aug 75

Aug. 29, 197500		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 270	Kp	4+			5+				4o				4-				4o				3+				
	sc																								
Aurora	USSR																								
	W.E.	φ = 59° 2350 (glow) Central Scotland																							
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-																								
Indices	Rz: 10 10cm flux: 83 Flare: 2/24.0 Ca: no data Ip: 0 Ia: 3																								
Solar Regions																									
Sunspots																									

Aug. 30, 197500		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 14	Kp	4o			4o				4o				2+				1+				2o				
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-																								
Indices	Rz: 21 10cm flux: 85 Flare: 0/23.9 Ca: no data Ip: 0 Ia: 5																								
Solar Regions		(13828) N11																							
Sunspots																									

Aug. 31, 197500		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 6	Kp	1+			2o				2+				2+				1o				1o				
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- (see Remarks) SW-																								
Indices	Rz: 21 10cm flux: 85 Flare: 0/24.0 Ca: no data Ip: 0 Ia: 0																								
Solar Regions		(13822) S19 (13829) S18																							
Sunspots																									
Remarks: Corona		NW- no data 295°-300°; 310°-355°																							

REGIONAL FLARE INDEX
INCLUDES ALL FLARES

MC MATH PLAGE NO.	LAT	CHP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13786	N 6	75/08/05.4	75/07/30	75/08/11	445.14	34.24	130
13803	S35	75/08/09.3	75/08/14	75/08/14	.49	.49	1
13790	N 9	75/08/09.5	75/08/01	75/08/16	414.29	25.89	154
13796	S 8	75/08/16.0	75/08/14	75/08/21	8.25	1.03	5
13811	N28	75/08/16.1	75/08/20	75/08/22	51.09	17.03	26
13807	S12	75/08/21.0	75/08/15	75/08/25	21.71	1.97	14
13808	N 8	75/08/22.6	75/08/16	75/08/26	16.22	1.47	7
13818	S13	75/08/24.9	75/08/25	75/08/29	51.28	10.26	21
13816	N 1	75/08/25.5	75/08/23	75/08/23	5.28	5.28	1

Note:
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 flares during its disk passage.

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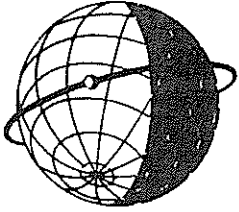
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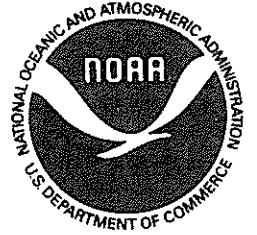
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SOLAR-TERRESTRIAL PHYSICS



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