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NO. 373 SEPTEMBER 1975

Part II (Comprehensive Reports)

DATA FOR
MARCH 1975
FEBRUARY 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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Solar - Terrestrial Data Services Division

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Hα SOLAR FLARES

MARCH 1975

OBSERVATORY	OBSERVED UT DATE	START	MAX. PHASE	END	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. CORD.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	REMARKS
KHAR	02	1149E		1149D	N16	W22	.515		31.8		SF		P				D
KHAR	03	1140E	1145	1155D	N17	W38	.696		31.6	15D	SF		P	1145	80	1.4	D
HTPR	04	1542E		1657D	N12	W57	.862		31.4	75D	SF		C	1648	30	.5	E
RAMY	05	1918	1919	1932	N12	W73	.965		31.3	14	SF	2	C		27		DE
HTPR	06	1150	1151	1201	N07	E70	.946		11.7	11	SF		C	1151	10		
PALE	11	0039	0045	0052	S13	W30	.503		8.8	13	SF	3	C		65		DE
MANI	12	0039E	0040U	0055	S14	W31	.520		9.7	16D	SN	2		0040	90	1.0	F
MITK	12	0040E		0049D	S13	W32	.532		9.6	9D	SN		P	0040	80	1.0	E
PALE	12	0040	0045	0052	S13	W30	.503		9.8	12	SN	3	V		70		DE
MANI	12	0310	0312	0327	S14	W32	.534		9.7	17	SN	2		0312	120	1.4	H
TEHR	12	0312E	0312U	0328	S13	W32	.532		9.7	16D	SN	2	V		115		F
ABST	12	0607	0634	0647D	S13	W36	.588		9.6	40D	SF		P	0634	87	1.1	D
MANI	12	0847	0850	0904	S14	W37	.603		9.6	17	SF	2		0850	30	.3	
MANI	12	0917	0920U	0920D	S14	W37	.603		9.6	3D	SN	2		0920	80	1.0	
TEHR	12	0919	0924	0935	S13	W34	.560		9.8	16	SN	3	V		75		
ATHN	12	1343	1347	1414	S13	W39	.628		9.6	31	SN	2	C		192		U F
ATHN	12	1343	1347	1414	S13	W39	.628		9.6	31	SN	2	V		192		U F
RAMY	12	1343	1346	1425	S15	W37	.605		9.8	42	SN	4	C		108		F
RAMY	12	1350E	1355	1419	S13	W37	.601	13532	9.8	29D	1F	4	C		210		DE
RAMY	12	1350E	1355D	1355D	S13	W37	.601	13532	9.8	5D	1F	4	V		210		DE
HTPR	12	1411E		1427D	S13	W38	.615		9.7	16D	SN		C	1412	80	1.0	EI
HUAN	12	1411E		1423	S13	W36	.588		9.9	12D	SF		P	1411	85	1.1	E
HUAN	12	1647E		1654D	S13	W40	.641		9.7	7D	SF		P				
RAMY	12	1648	1653	1706	S15	W39	.631		9.8	18	SF	3	C		90		F
HUAN	12	1722		1725D	S13	W40	.641		9.7	3D	SF		P				
PALE	12	1833E	1847	1852	S13	W41	.654		9.7	19D	SF	2	C		35		DE
PALE	12	1834E	1847U	1919D	S13	W41	.654		9.7	45D	SF	2	V		40		DE
BOUL	12	1913	1920	1942	S15	W38	.618		10.0	29	SF	2	C	1920	21	.3	
HUAN	12	1914		1922	S13	W41	.654		9.7	8	SF		P				
RAMY	12	1917	1920	1928	S15	W41	.657		9.7	11	SF	3	C		36		DE
BOUL	12	2237	2243	2300	S15	W42	.669		9.8	23	SF	2	C	2243	32	.4	
MANI	12	2238	2240	2252	S13	W44	.692		9.6	14	SN	1		2240	30	.4	F
MANI	13	0027	0035	0048	S13	W43	.679		9.8	21	SF	2		0035	110	1.5	F
MANI	13	0629	0637	0657	S13	W49	.750		9.6	28	SF	2		0637	40	.6	
ABST	13	0801E	0804	0815D	S11	W50	.761		9.6	14D	1N		P	0804	131	2.1	D
RAMY	13	1207	1209	1220	S15	W48	.740		9.9	13	SF	4	C		32		DE
HUAN	13	1710		1717D	S13	W56	.823		9.5	7D	SF		P				
BOUL	13	1919	1921	1932	S15	W53	.794		9.8	13	SF	2	C	1921	11	.2	
HUAN	13	1921	1922	1925	S14	W55	.814		9.7	4	SF		C	1922	30	.5	
HUAN	13	1947E		1948	S13	W56	.823		9.6	1D	SF		P				C
BOUL	13	2041	2045	2055	S14	W57	.833		9.6	14	SF	2	C	2045	11	.2	
VORO	14	0058E		0119	S16	W57	.834		9.8	21D	SB		C	0104	99	1.7	EJ
MANI	14	0059	0107	0131	S13	W57	.833		9.8	32	SN	2		0107	100	1.7	F
HUAN	14	1912		1934D	S12	W70	.934		9.6	22D	SF		P	1929	35		
VORO	14	2339	2353	0021	S15	W70	.933		9.7	42	1B		C	2353	108	2.9	EJ
MANI	14	2351E	2353	0022D	S12	W70	.934		9.7	31D	SN	1		2353	80	1.7	F
ARCE	15	0840E		1000D	S12	W80	.981		9.4	80D	SN		C	0921	68		
ARCE	15	0906E		0921	S13	W12	.231		14.5	15D	SF		C	0913	65	.7	
ARCE	15	0913E		0925D	S10	W48	.738		11.8	12D	SF		P	0913	22	.3	
HTPR	15	1024	1026	1031	S12	W80	.981		9.4	7	SF		C	1026	20		
RAMY	15	1831	1835	1845	S13	W82	.987		9.6	14	SF	4	C		23		DE
BOUL	15	2339	2344	2349	S13	W90	1.000		9.2	10	SF	2	C	2344	11	.4	
ABST	16	0601E	0608	0630D	S15	W89	.999		9.6	29D	2F		P	0608	87	6.4	ADJ
ABST	16	0650E	0652	0700D	S11	W61	.869		11.7	10D	SF		P	0652	70	1.4	EJ
ABST	16	0809	0816	0858	S11	W61	.869		11.8	49	SF		C	0816	70	1.4	FJK
ATHN	16	0915	0917	0947D	S11	W61	.869		11.8	32D	SF	4	V		32		DE
ATHN	16	0915	0917	0947D	S11	W61	.869		11.8	32D	SF	4	C		32		DE
RAMY	16	1216	1225	1252	S10	W62	.877		11.9	36	SF	4	C		45		DE H
HUAN	16	1312E		1313D	S10	W65	.901		11.7	1D	SF		P	1312	30	.7	
ATHN	16	1314	1317	1325	S11	W63	.885		11.8	11	SF	5	C		32		DE
ATHN	16	1314	1317	1325	S11	W63	.885		11.8	11	SF	5	V		32		DE
RAMY	16	1411	1417	1426	S12	W63	.885		11.9	15	SF	4	C		27		DE

Several changes in the presentation of the Grouped Flare Data have been planned to begin with the January 1975 data. The preparation of the new presentation has been delayed because of problems in computer conversions. Therefore, only the observatory flare reports are included here. The grouped flares will no longer be classified as "confirmed" or "unconfirmed". The flare list for this month will be republished later and will include a summary line for each flare. Measured area is now reported in millionths of the solar disk.

Hα SOLAR FLARES

MARCH 1975

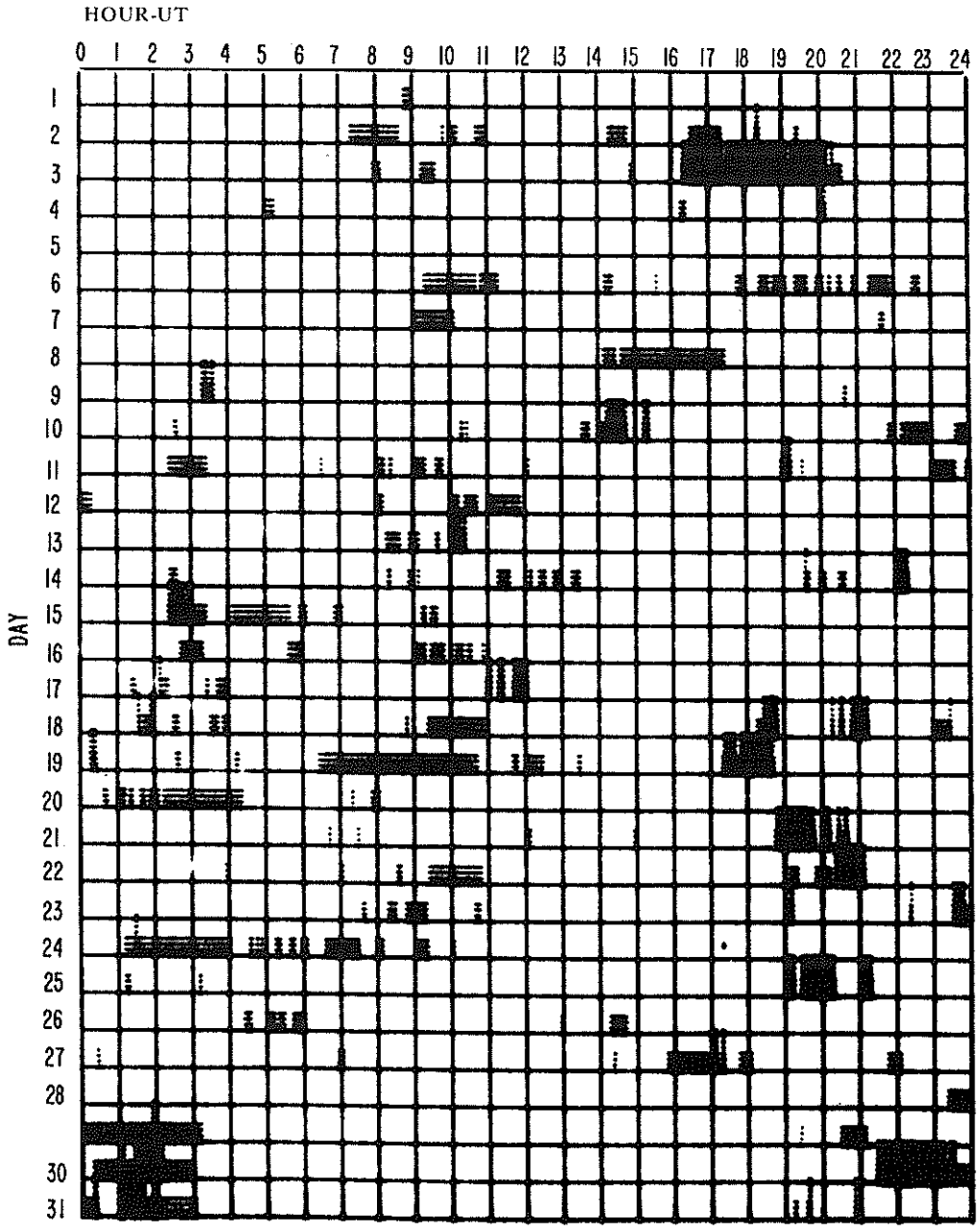
OBSERVATORY	OBSERVED UT DATE	START	MAX. PHASE	END	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	REMARKS
BOUL	16	1918	1939	1952	S16	W31	.525		14.3	34	SF	1	C	1939	11	.1	
ARCE	17	0844E		0908D	S13	W40	.640		14.4	24D	SN		C	0902	46	.6	
MONT	17	0901	0903	0906	S05	W38	.613		14.5	5	SN		C	0903	20		B
HUAN	17	1748		1751	S09	W85	.995		11.4	3	SF		C				
RAMY	17	1754E		1755D	S17	W90	.999		11.0	1D	SB	4	C				
HTPR	18	0800	0806	0810	S08	W33	.541		15.9	10	SF		C	0806	10	.1	E
HTPR	18	0815	0851	0900	S13	W58	.842		14.0	45	SF		C	0851	30	.5	E
HTPR	18	0937	0941	1030	S13	W59	.851		14.0	53	SF		C	0941	20	.4	E
HTPR	18	1047	1051	1112	S08	W36	.584		15.7	25	SF		C	1057	10	.1	E
HTPR	18	1100	1103	1108	S13	W60	.860		14.0	8	SF		C	1103	20	.4	E
HTPR	18	1136	1138	1219	S08	W36	.584		15.8	43	SF		C				E
HTPR	18	1136	1144	1219	S08	W36	.584		15.8	43	SF		C	1144	20	.2	E
HTPR	18	1216	1219	1229	S13	W61	.868		13.9	13	SF		C	1219	10	.1	
HTPR	19	1505	1505	1516	S14	W70	.933		14.4	11	SF		C				
HTPR	19	1505	1508	1516	S14	W70	.933		14.4	11	SF		C	1508	20		
HTPR	21	0807	0810	0820	N10	W73	.964		15.9	13	SF		C	0810	10		
HTPR	21	0859	0910	0919	N10	W75	.973		15.7	20	SN		C	0910	30		E
HTPR	21	0956	1007	1053	N10	W75	.973		15.8	57	SF		C	1007	30		E
HTPR	21	1110	1112	1125	N10	W76	.977		15.8	15	SF		C				E
HTPR	21	1110	1118	1125	N10	W76	.977		15.8	15	SF		C	1118	30		E
HTPR	21	1140	1150	1215	N10	W76	.977		15.8	35	SN		C	1150	30		E
HTPR	21	1234	1235	1305	N10	W76	.977		15.8	31	SN		C	1235	30		E
HUAN	21	1556E		1606D	N08	W82	.993		15.5	10D	SF		P				
HUAN	21	1949E		2005D	N07	W85	.997		15.5	16D	SF		P	1952	30		
VORO	21	2242	2244	2247	N05	W88	1.000		15.3	5	SF		C	2244	18	1.2	DG
PALE	21	2244E	2244U	2249	N 8	W81	.991		15.9	5D	SF	2	C		22		DE
PALE	21	2244E	2245U	2249	N 7	W85	.997		15.6	5D	SF	3	V		30		DE
PALE	22	0128E	0129U	0133D	N 8	W87	.999		15.5	5D	SF	2	V		25		DE
PALE	22	0129E	0129U	0138	N 8	W84	.996		15.8	9D	SF	2	C		18		DE
RAMY	23	2013	2017	2031	N16	E47	.787		27.4	18	SF	3	C		27		DE
HTPR	26	1238	1246	1256	S07	W02	.035		26.4	18	SF		C	1246	20	.2	E
HTPR	26	1310		1440	N10	W90	1.000		19.8	90	SF		C	1323	20		K
ABST	29	0744	0749	0803	N14	E56	.861		5.5	19	SF		C	0749	87	1.9	DJ
ABST	30	0738	0739	0745	S15	E85	.993		8.7	7	2F		C	0739	87	6.4	DJ
ABST	30	1118	1122	1126	N01	E36	.600		5.2	8	SF		C	1122	87	1.1	D
KODA	31	0236	0237	0345	S17	E75	.959		8.7	69	SN		V	0239			

Note: Daily Flare Indices not available because of problems with computer conversion.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

MARCH 1975



Observatories included in total patrol:

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

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

MARCH 1975

MAR 1975	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	MEAN	INT	POLARIZATION OR REMARKS
1	3100	CRIM	24	R	0855.5	1123.5		6			
2	9240	ARCE	3		1600.6	1601.2	3				
	245	SGMR	43	NS	1620.2	1642.6	124.8	10.4			
3	18	MCMA	6	S	1655	1657	2			1	
4	550	KIEV	40	F	1246.6	1250	4.2	5	1		
	550	KIEV	40	F	1316.5	1316.7	2.5	6	1		
	550	KIEV	6	S	1328.1	1328.2	0.4	5			
	18	MCMA	41	F	1328	1330	5			1	
	18	MCMA	6	S	1341	1343	2			1	
	550	KIEV	6	S	1342.1	1342.3	0.7	6	3		
	550	KIEV	6	S	1347.1	1347.3	0.7	7			
6	3100	CRIM	45	C	0929.5	0934	28	3	1		
	3100	CRIM			0949			3			
	2695	BOUL	8	S	2059.5	2100.5	2	9	4		
	2695	BOUL	3	S	2105.5	2106	1.5	5	2		
7	2695	BOUL	45	C	2329.5	2330.5	2	23	9		
	4995	BOUL	2	S	2332.5	2334	4	22	5		
8	930	BORD	1	S	1029	1029	0.1	68	1		
	18	MCMA	6	S	1333	1335	2			1	
	930	BORD	1	S	1409.5	1409.5	0.1	12	1		
9	3100	CRIM	24	R	0800 U	0845		4			
	930	BORD	1	S	1249.7	1249.7	0.1	10	1		
	2700	PENN	1	S	1344.7	1345.4	8.3	6.8	0.5		
	245	SGMR	6	S	1922.9	1931.6	15.8	21.8	6.5		
	410	SGMR	6	S	1927	1931.2	10.9	.7	.2		
	245	SGMR	43	NS	1955.4	2031	162.6D	16.2			
10	29	UPIC	3	S	1331.5	1331.8	0.7				UNCERTN
	33	UPIC	3	S	1331.5	1331.8	0.5				UNCERTN
	18	MCMA	6	S	1435	1436	2			1	
	2695	BOUL	45	C	2222	2222.5	1.5	5	2		
11	18	MCMA	41	F	2245	2247	4			1	
12	9400	TYKW	20	GRF	0037	0047	50	4	2		OR
	2000	TYKW	20	GRF	0037	0045	50	1	0.5		
	3750	TYKW	20	GRF	0037	0045	50	2	1		OR 294043F
	720	SYDN	20	GRF	0053.3	0053.3U	0.6	12			
	3750	TYKW	20	GRF	0310	0320	35	2	1		OR 294043F
	9400	TYKW	20	GRF	0310	0320	30	3	1		OR
	2000	TYKW	20	GRF	0310	0320	80	0.7	0.3		
	3100	CRIM	1	S	0916.6	0918.1	23	5	2		
	3100	CRIM	29	PBI			23				
	9240	ARCE	21		1002.1	1021	15				
	9240	ARCE	2		1030.1	1030.2	0.7				
	9240	ARCE	2		1042.9	1043.5	2				
	2800	OTTA	20	GRF	1340	1420	75	1.4	0.7		
	100	HIRA	45	C	2131	2131.9	2.5	380	200		WL
13	3100	CRIM	24	R	0820 U	1300 U		6			
	9240	ARCE	20		1339.1	1344.8	76 D				
	550	KIEV	41	F	1349.5	1351.6	6	6			
	2800	OTTA	20	GRF	1410	1610	215	1.8	0.9		
	2800	OTTA	24	R	1810	1840	30	1.2	0.6		
	2800	OTTA	27F	RF	1810		140	1.2	1		
	2800	OTTA	24P	R	1840		100	1.2			
	2800	OTTA	26	FAL	2020	2030	10	-1.2	-0.6		
	18	MCMA	6	S	2310	2312	2			1	
	18	MCMA	6	S	2317	2318	1			1	
14	2695	PENT	2	S/F	0004	0005	3.5	1.4	0.7		
	9400	TYKW	20	GRF	0050	0102.6	60	4	2		OR
	2000	TYKW	5	S	0057	0102.9	15	1.7	0.5		
	3750	TYKW	5	S	0058	0102.8	10	4	1		OR 294071F
	720	SYDN	8	S	0513	0513.1	0.1	19			
	720	SYDN	8	S	0513.8	0513.9	0.1	19			
	29	UPIC	4	S/F	0931.5	0931.7	0.8				
	33	UPIC	4	S/F	0931.8	0932.1	0.9				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1975

MAR 1975	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	MEAN	INT	POLARIZATION OR REMARKS
	808	ONDR	8	S	0934.5	0934.5	0.2	25			
	2695	PENT	20	GRF	2335	2348	55	1.8	0.9		
15	260	ONDR	8	S	0955.6	0955.6	0.2	4			
16	200	GORK	44	NS	0500 E		147		5		
	650	GORK			0502.2	0506.4		12			
	650	GORK	48	C	0502.2	0505.6	2.5	17			
	950	GORK			0505	0507		24			
	950	GORK	48	C	0505	0505.7	3.6	28			
	260	ONDR	44	NS	0800 E		440 D	23			
	200	GORK	44	NS	0812		228 D		5		
	228	HARS	43	NS	0830		510 D	2	1		SUNSET
	245	SGMR	44	NS	1059 E	1502.7	707 D	39.8			
	410	SGMR	44	NS	1059 E	1253.7	707 D	5.2			
	200	HIRA	44	NS	2050 E	0437	710 D	15	8		SR
	207	VORO	44	NS	2200	0100	240	19			
	6100	KISV	3	S	0809.3	0809.3	12	1.2			
	536	ONDR	8	S	0957.2	0957.2	0.2	10			
	808	ONDR	8	S	0957	0957	0.2	8			
	2800	OTTA	240	R	1403 D	1410	7 E	2			CALIBRATION
	2800	OTTA	24P	R	1410		285	2			
	2800	OTTA	240	R	1855	1910	15	1.6	0.8		
	2800	OTTA	24P	R	1910		340 D	1.6			
	2800	OTTA	8	S	1918.7	1918.7	0.3	2.6			
	2800	OTTA	20	GRF	2000	2035	90	1.8	0.9		
17	3100	CRIM	26	FAL	0600 E	1300 U		7			
	200	GORK	44	NS	0458.4E		53 D		50		
	100	GORK	44	NS	0458.4E		453 D		6		
	221	ABST	44	NS	0700	0800.2	240	6			
	207	IZMI	43	NS	0700		300	19			
	228	HARS	44	NS	0700 E		600 D	3	1.5		SUNRISE-SUNSET
	260	ONDR	44	NS	0735 E		448 D	20			
	221	ABST	6	S	0800	0800.2	0.5	24			
	221	ABST	6	S	0842.8	0843	0.5	24			
	127	TORN	43	NS	0950		140 D				
	127	TORN	46	C	1039.9	1044.6	9	400 U			UNCERTN
	245	SGMR	44	NS	1057 E	U	710 D	U			
	2700	PENN	1	S	1526.6	1527.2	1.4	2.6	1.5		
	2700	PENN	1	S	1543.9	1546.1	4.4	3.4	1.1		
	410	SGMR	6	S	1601	1601.6	1	3.9	1.2		
	606	SGMR	2	S/F	1601.2	1601.3	.6	7.6	2.3		
	200	HIRA	44	NS	2050 E	0509	710 D	15	7		SR
	207	VORO	44	NS	2200	0012	240	19			
18	200	GORK	44	NS	0458.1E		482 D		40		
	100	GORK	43	NS	0500 E		111		5		
	221	ABST	44	NS	0700	0742	240	5			
	228	HARS	44	NS	0700 E		600 D	2	1		SUNRISE-SUNSET
	260	ONDR	44	NS	0720 E		465 D	20			
	221	ABST	6	S	0741.8	0742	0.5	20			
	127	TORN	44	NS	0830 E		350 D	4			
	315	DWIN	44	NS	0840	1040	450		3		
	286	DWIN	44	NS	0840	1040	450		7		
	245	SGMR	44	NS	1055 E	1210.6	714 D	25.5			
	2700	PENN	1	S	1937.2	1937.4	2.6	3.4	0.4		
	2700	PENN	1	S	2005.4	2007.4	5	2.6	0.5		
	2700	PENN	40	F	2109		8.6				
	200	HIRA	44	NS	2050 E	2228	710 D	10	5		SR
	207	VORO	44	NS	2200	0008	240	23			
19	100	HIRA	45	C	0007	0007.3	0.8	490	130		HL
	200	GORK	44	NS	0452.2E		488 D		15		
	286	DWIN	44	NS	0805		440		1		
	536	ONDR	8	S	0924.7	0924.7	0.2	9			
	127	TORN	7	C	1016	1017	2.3	26			
	33	UPIC	3	S	1553.5	1553.8	0.8				
	29	UPIC	3	S	1553.6	1554	0.9				
	9240	ARCE	8		1630.2	1630.3	1				
20	930	BORD	45	C	1735.1	1735.1	0.2	18	1		
	1420	BOUL	8	S	1750.5	1750.5	2	11	2		
	207	VORO	41	F	2357	2359	3	23			
21	9240	ARCE	3		0800.1	0800.2	1.6				
	221	ABST	6	S	1020.8	1021	0.5	9			
	2800	OTTA	20	GRF	1925	2005	95	1.4	0.7		
22	260	ONDR	8	S	1114.5	1114.5	0.2	5			
	930	BORD	1	S	1117.7	1117.7	0.1	9	1		
	536	ONDR	8	S	1256.2	1256.2	0.2	8			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1975

MAR 1975	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	POLARIZATION OR REMARKS
	260	ONDR	3	S	1256.8	1257.8	2	7	1.5		
	536	ONDR	8	S	1323.3	1323.3	0.2	14			
	260	ONDR	8	S	1414.5	1414.5	0.2	4			
	550	KIEV	41	F	1432.7	1434.8	10	6			
23	3100	CRIM	1	S	0620	0621	2	6	2		
24	550	KIEV	27	RF	1310	1319.5	20	6	2		
	2700	PENN	20	GRF	1412.2	1417.8	48.5	3.6	1.9		
	2700	PENN	8	S	1434	1434.1	0.3	1.6			
	2700	PENN	24	R	1950.4	2215.1		5.5			
25	260	ONDR	8	S	1042.3	1042.3	0.2	7			
	2700	PENN	8	S	1206.4	1206.5	0.2	9.2			
26	930	BORD	1	S	0816.2	0816.2	0.1	103	1		
	550	KIEV	41	F	0951	1002.9	14	35			
27	9240	ARCE	1		1104.8	1105.3	1.5				
30	260	ONDR	3	S	0824.6	0825.4	2	28	4.2		
	260	ONDR	40	F	0917	0921	6	4	1		
	260	ONDR	40	F	1021	1029	9	9	4.2		
	29	UPIC	1	S	1153.3	1153.9	1				UNCERTN
	33	UPIC	1	S	1153.5	1153.9	0.8				UNCERTN
	550	KIEV	41	F	1449.5	1449.6	9	9			
	18	MCMA	42	SER	2232	2306	37			1	
	18	MCMA	6	S	2323	2324	2			1	
	18	MCMA	41	F	2332	2334	4			1	
31	260	ONDR	40	F	0840	0843.2	5	8	5		

Reports received from the following observatories:

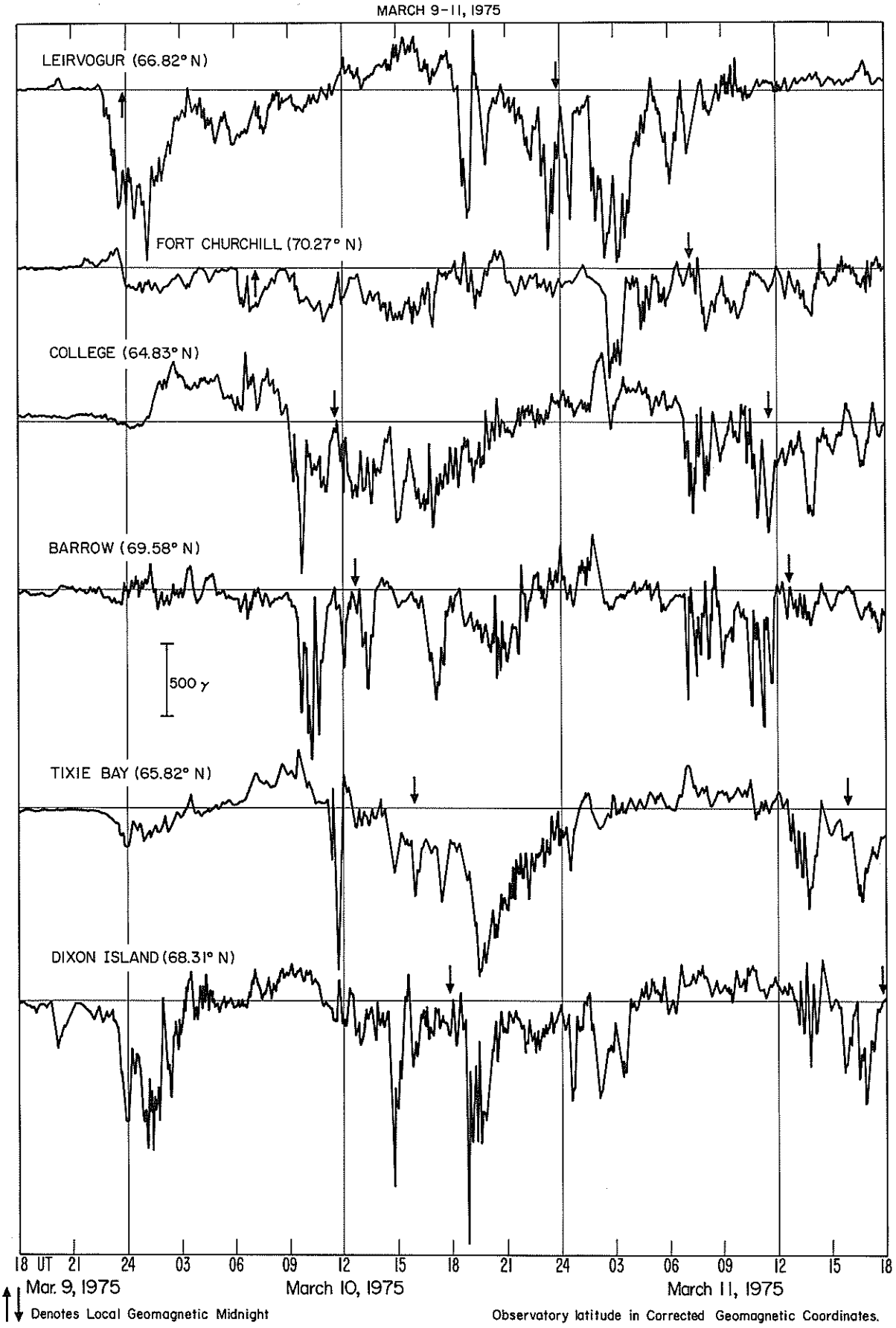
ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow Izmiran
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov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

Explanation of Type Code:

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

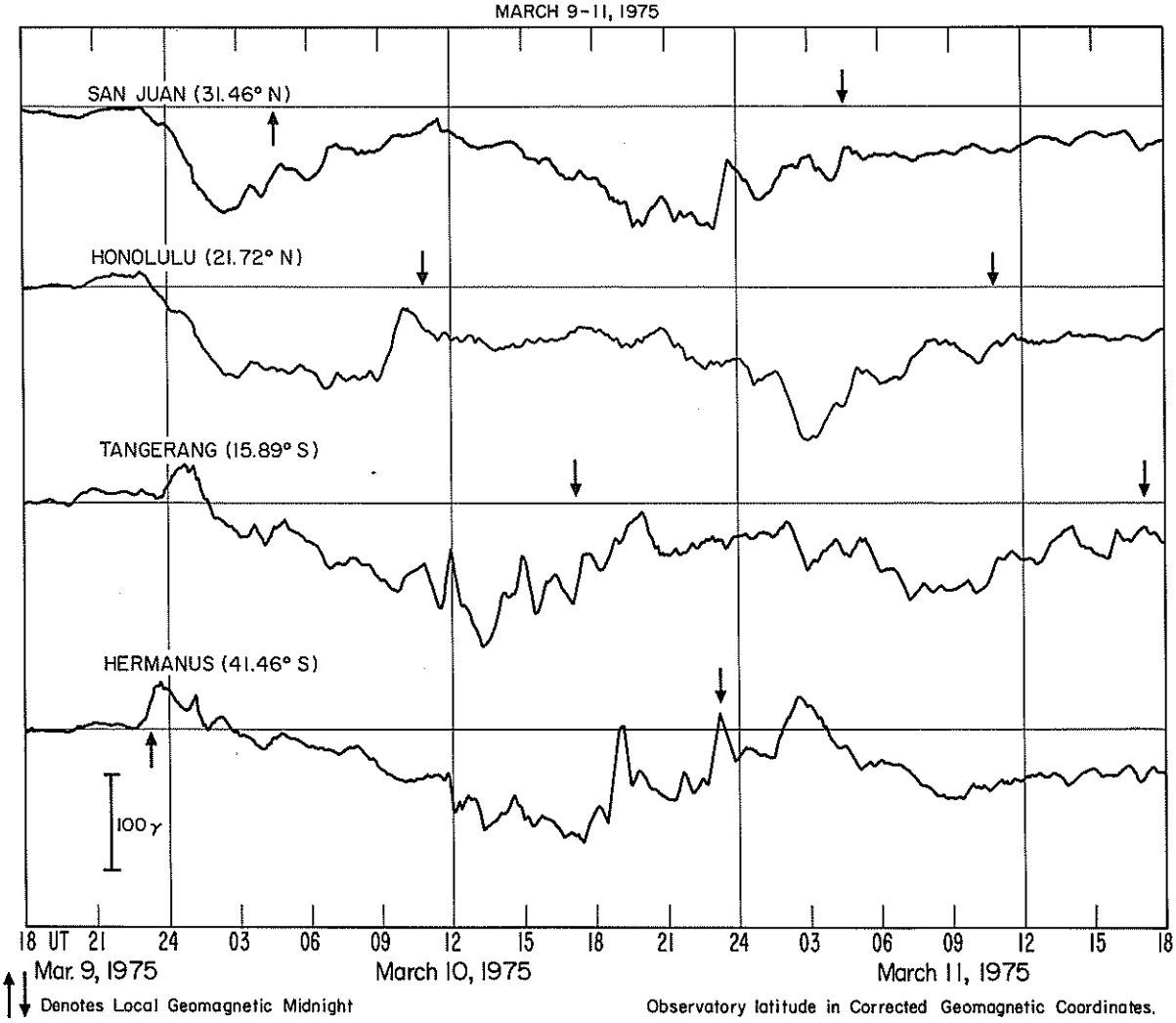
H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

MARCH 9-11, 1975

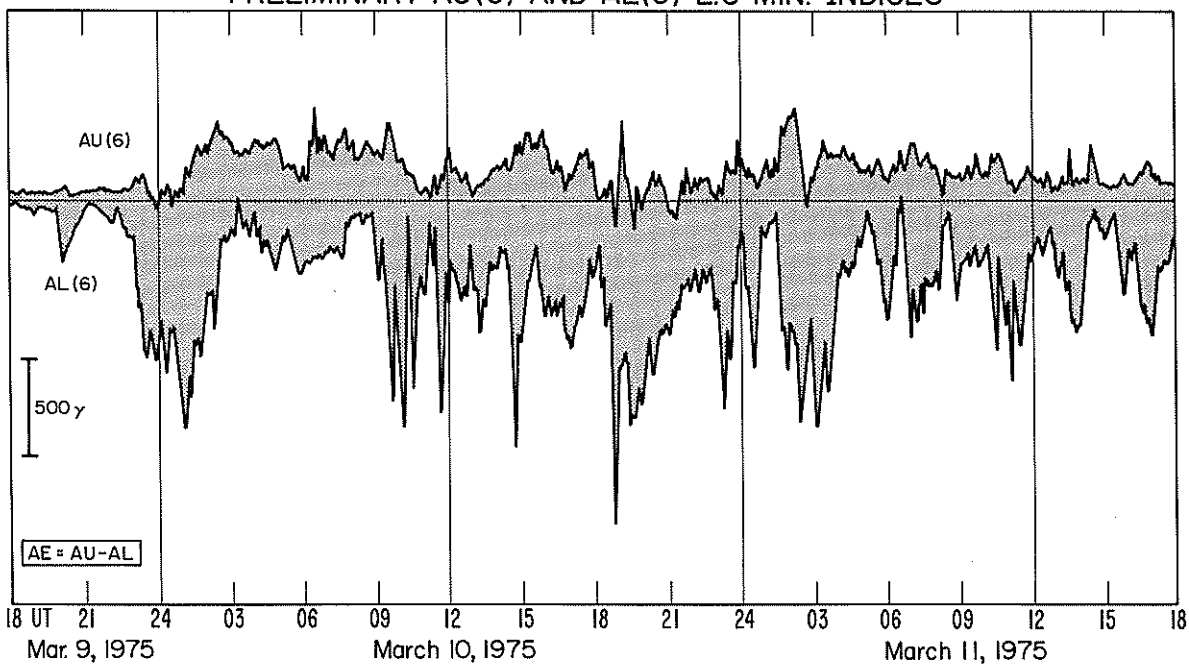


H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

MARCH 9-11, 1975



PRELIMINARY AU(6) AND AL(6) 2.5-MIN. INDICES



FEBRUARY 1975 DATA

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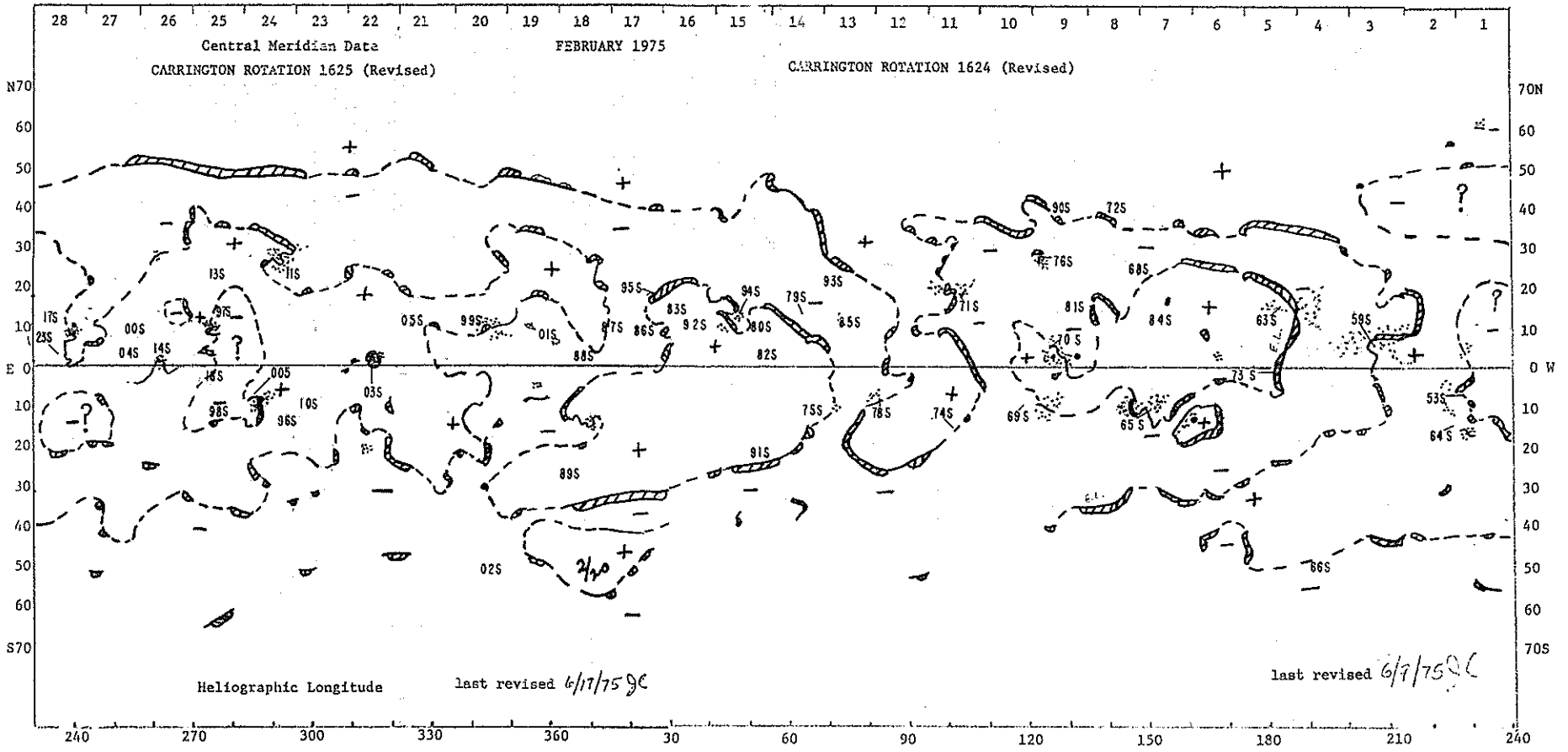
ABBREVIATED CALENDAR RECORD

FEBRUARY 1975



Feb. 1, 1975 00 UT 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 37D	Kp	3+ 5o 5- 5- 5o 4+ 4+ 5-
	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: 0 10cm flux: 73 Flare: 0/24.0 Ca: 3.2 Ip: 0 Ia: 6
Solar Regions		(13453) S09 13464 S15
Sunspots		

Feb. 2, 1975 00 UT 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 23	Kp	5- 4+ 4- 4o 4- 3o 4- 2o
	sc	
Aurora	USSR	ϕ = 59° 1400-1500(R1A2)
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices		Rz: 22 10cm flux: 74 Flare: 1/23.3 Ca: 4.6 Ip: 0 Ia: 7
Solar Regions		
Sunspots		

Feb. 3, 1975 00 UT 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 12	Kp	3- 4- 3o 2o 3o 2+ 2o 1+
	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: 28 10cm flux: 76 Flare: 12/24.0 Ca: 66 Ip: 0 Ia: 5
Solar Regions		13459 N06 (2)
Sunspots		N07

Feb. 4, 1975 00 UT 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 10Q	Kp	2+ 3- 1+ 1+ 3o 3- 2+ 3o
	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- SW-
Indices		Rz: 27 10cm flux: 78 Flare: 1/24.0 Ca: no data Ip: 0 Ia: 3
Solar Regions		(13466) S48
Sunspots		

Feb. 5, 1975 00 UT 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	
Bursts: dm	
Bursts: m	
Bursts: Dkm	
SID	
X-Rays	
Ap 17 Kp	3+ 3- 2+ 3o 3+ 4+ 3o 3+
Ap 17 sc	
Aurora USSR	ϕ = 59° 2100-2200(HA2)
Aurora W.E.	
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 20 10cm flux: 79 Flare: 17/23.1 Ca: no data Ip: 0 Ia: 5
Solar Regions	13463 N15 (3) (13473) S02
Sunspots	

Feb. 6, 1975 00 UT 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	
Bursts: dm	
Bursts: m	← noise storm →
Bursts: Dkm	
SID	
X-Rays	
Ap 8QQ Kp	2+ 3- 2+ 2- 1o 2o 3- 2+
Ap 8QQ sc	
Aurora USSR	
Aurora 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: 26 10cm flux: 83 Flare: 8/23.9 Ca: 7.0 Ip: 0 Ia: 2
Solar Regions	
Sunspots	

Feb. 7, 1975 00 UT 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	
Bursts: dm	
Bursts: m	ns ← noise storm → ns
Bursts: Dkm	
SID	
X-Rays	
Ap 15 Kp	3- 3o 3- 3o 2+ 3+ 3+ 3+
Ap 15 sc	
Aurora USSR	
Aurora W.E.	
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices	Rz: 34 10cm flux: 82 Flare: 25/20.0 Ca: 8.5 Ip: 0 Ia: 5
Solar Regions	(13484) N13 13465 S11 (13468) N23
Sunspots	19545 S12 (αf)1 19548 S10 (αp)2 19549 S08 (αp)1

Feb. 8, 1975 00 UT 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	
Bursts: dm	
Bursts: m	noise storm →
Bursts: Dkm	
SID	
X-Rays	
Ap 8QQ Kp	3- 3- 3- 2+ 1o 1+ 1- 2-
Ap 8QQ sc	
Aurora USSR	
Aurora 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: 29 10cm flux: 81 Flare: 1/23.5 Ca: 7.7 Ip: 0 Ia: 3
Solar Regions	(13472) N39
Sunspots	

Feb. 9, 1975 00 UT 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	
Bursts dm	
Bursts m	
Bursts Dkm	
SID	
X-Rays	
Ap 11Q Kp	4o 3o 2+ 0o 0+ 2- 2+ 4-
Ap 11Q sc	
Aurora USSR	
Aurora W.E.	ϕ = 60° 2350-0200 (glow) visible between cloud western Scotland
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 10cm flux: 79 Flare: 0/23.7 Ca: 10.6 Ip: 0 Ia: 2
Solar Regions	(13481) N13 (13490) N39 13470 N04 13476 N26
Sunspots	19546 N03 βp

Feb. 10, 1975 00 UT 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	
Bursts dm	
Bursts m	← noise storm →
Bursts Dkm	
SID	
X-Rays	
Ap 38D Kp	5- 5o 5- 3o 4+ 5- 4o 6-
Ap 38D sc	
Aurora USSR	ϕ = 60° 2100-2400(HP1)
Aurora W.E.	ϕ = 60° 0000-0200 (glow) visible between cloud western Scotland
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: 18 10cm flux: 79 Flare: 0/20.8 Ca: 10.1 Ip: 0 Ia: 5
Solar Regions	13469 S10
Sunspots	

Feb. 11, 1975 00 UT 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	
Bursts dm	
Bursts m	← noise storm →
Bursts Dkm	
SID	
X-Rays	
Ap 36D Kp	5+ 4o 4- 3+ 4- 5o 5o 5o
Ap 36D sc	
Aurora USSR	ϕ = 59° 1500-2200(HA2) and 2400(R_2R2); ϕ = 60° 1800-2300(HA1)
Aurora W.E.	
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 13 10cm flux: 77 Flare: 12/18.1 Ca: 7.4 Ip: 0 Ia: 5
Solar Regions	13471 N18 (4) (13474) S17
Sunspots	(19547) N18 αf

Feb. 12, 1975 00 UT 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	
Bursts dm	
Bursts m	← noise storm →
Bursts Dkm	
SID	
X-Rays	
Ap 35D Kp	4+ 4+ 5- 5- 4- 5- 5- 5-
Ap 35D sc	
Aurora USSR	ϕ = 58° 1500-1600 and 1900(HP1); ϕ = 60° 1800-1900(R_1B1)
Aurora W.E.	ϕ = 60° 2150 (glow) visible between cloud central Scotland
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 18 10cm flux: 77 Flare: 0/23.0 Ca: 7.7 Ip: 0 Ia: 6
Solar Regions	13478 S09 (2)
Sunspots	

Feb. 13, 1975 00 UT 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 27	Kp	4o 4- 4- 3+ 4- 4+ 5o 4o
	sc	
Aurora	USSR	ϕ = 59° 1600-2200(HA2); ϕ = 48° 2000-2200(HB1)
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 9 IOcm flux: 76 Flare: 16/18.3 Ca: 4.1 Ip: 0 Ia: 6
Solar Regions		13485 N10 (13493) N22
Sunspots		

Feb. 14, 1975 00 UT 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 25	Kp	4+ 4o 4- 4- 3+ 4+ 4- 4o
	sc	
Aurora	USSR	ϕ = 58° 1000-1200(HA1-2); ϕ = 59° 1600-2200(HA2)
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices		Rz: 8 IOcm flux: 74 Flare: 0/23.5 Ca: 2.4 Ip: 0 Ia: 5
Solar Regions		(13475) S12 (13479) N14
Sunspots		

Feb. 15, 1975 00 UT 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 21	Kp	3+ 3+ 4- 3- 4- 4- 4o 4o
	sc	
Aurora	USSR	ϕ = 59° 1200-1400(HB1) and 2200-2400(HP1)
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices		Rz: 8 IOcm flux: 72 Flare: 0/23.2 Ca: no data Ip: 0 Ia: 5
Solar Regions		(13482) N01 (13480) N09 (13491) S20 (13494) N13
Sunspots		(19550) N12 (β)1

Feb. 16, 1975 00 UT 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 30	Kp	3+ 4- 4o 4+ 4- 5o 5- 4+
	sc	
Aurora	USSR	ϕ = 59° 1400-1500(R1B2), 1900-2000(HP1) and 2300-2400(HP1); ϕ = 60° 1700-1800(HA1)
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices		Rz: 8 IOcm flux: 73 Flare: 0/24.0 Ca: no data Ip: 0 Ia: 6
Solar Regions		(13492) N11 (13483) N15
Sunspots		

Feb. 17, 1975 00 UT 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	
Bursts dm	
Bursts m	
Bursts Dkm	
SID	
X-Rays	
Ap 14 Kp	3- 3o 3o 3+ 3o 3o 3- 3-
Ap 14 sc	
Aurora USSR	
Aurora W.E.	
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW no data* SW-
Indices	Rz: 0 10cm flux: 71 Flare: 0/23.8 Ca: no data Ip: 0 Ia: 5
Solar Regions	(13495) N17 (13486) N10 (13487) N08
Sunspots	
Remarks	* 270°-275° and 290°-355°

Feb. 18, 1975 00 UT 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	
Bursts dm	
Bursts m	
Bursts Dkm	
SID	
X-Rays	
Ap 15 Kp	4o 4o 3o 2o 3+ 2o 2+ 3-
Ap 15 sc	
Aurora USSR	
Aurora W.E.	φ = 60° 0050-0200 (glow) central Scotland
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices	Rz: 0 10cm flux: 70 Flare: 0/24.0 Ca: no data Ip: 0 Ia: 2
Solar Regions	(13488) N03 (13489) S26
Sunspots	

Feb. 19, 1975 00 UT 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	
Bursts dm	10
Bursts m	10
Bursts Dkm	
SID	
X-Rays	
Ap 11Q Kp	2o 3o 3o 3- 3- 1o 3- 3-
Ap 11Q sc	
Aurora USSR	
Aurora W.E.	
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices	Rz: 0 10cm flux: 72 Flare: 0/24.0 Ca: 0.5 Ip: 0 Ia: 2
Solar Regions	(13501) N06
Sunspots	

Feb. 20, 1975 00 UT 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	
Bursts dm	
Bursts m	
Bursts Dkm	
SID	
X-Rays	
Ap 8QQ Kp	3o 2- 2+ 3- 1o 1- 2o 2+
Ap 8QQ sc	
Aurora USSR	
Aurora W.E.	
Cosmic Rays	
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices	Rz: 7 10cm flux: 71 Flare: 1/21.5 Ca: 1.0 Ip: 0 Ia: 3
Solar Regions	(13502) S50 13499 N09
Sunspots	19551 N10 βε)2

Feb. 21, 1975 00 UT 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 8Q	Kp	3- 2o 2- 2o 2o 3o 2o 2o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 8 IOcm flux: 70 Flare: 0/22.8 Ca: 0.7 Ip: 0 Ia: 1
Solar Regions		(13505) N10
Sunspots		

Feb. 22, 1975 00 UT 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 7QQ	Kp	3- 2- 1+ 2o 2- 2o 2- 2o
	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: 0 IOcm flux: 70 Flare: 0/21.8 Ca: 1.1 Ip: 0 Ia: 0
Solar Regions		13503 N01
Sunspots		19552 N01 βf)2 19554 N04 βf)2

Feb. 23, 1975 00 UT 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 32D	Kp	3+ 2+ 4- 6o 5+ 5- 3o 3o
	sc	▲ 0827(6)
Aurora	USSR	φ = 57° 1300(HB2) and 1400(SB3); φ = 59° 1500-2000(HA1)
	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: 0 IOcm flux: 70 Flare: 0/22.9 Ca: no data Ip: 0 Ia: 3
Solar Regions		(13510) S11
Sunspots		

Feb. 24, 1975 00 UT 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	11
	m	
	Dkm	
SID		
X-Rays		
Ap 17	Kp	4o 3+ 2o 1+ 3+ 4- 3o 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: 12 IOcm flux: 70 Flare: 1/23.2 Ca: 2.0 Ip: 0 Ia: 4
Solar Regions		(13496) S12 (13511) N24 13506 S08
Sunspots		19553 S09 (βp 3

Feb. 25, 1975 00 UT 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 20	Kp	4o 5- 4o 3- 4o 3o 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-; SW-
Indices		Rz: 9; 10cm flux: 71; Flare: 0/21.2; Ca: no data; Ip: 0; Ia: 5
Solar Regions		(13498) S13; (13513) N24; (13516) S02; 13497 N10
Sunspots		

Feb. 26, 1975 00 UT 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 9Q	Kp	3o 4- 2+ 2o 1+ 1+ 1+ 0+
	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-; SW-
Indices		Rz: 0; 10cm flux: 70; Flare: 0/23.9; Ca: 1.5; Ip: 0; Ia: 4
Solar Regions		(13514) N01
Sunspots		

Feb. 27, 1975 00 UT 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 5QQ	Kp	1- 2o 2+ 0+ 1+ 1+ 0+ 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: 0; 10cm flux: 71; Flare: 2/24.0; Ca: 0.9; Ip: 0; Ia: 4
Solar Regions		(13500) N09; (13504) N02
Sunspots		

Feb. 28, 1975 00 UT 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 12	Kp	2o 3- 3- 1+ 2o 3- 4- 4-
	sc	
Aurora	USSR	ϕ = 60° 2000(R1B3)
	W.E.	ϕ = 60° 2250-0200 (glow) central Scotland
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE-; SE-; W. Limb 7 days later: NW-; SW-
Indices		Rz: 0; 10cm flux: 70; Flare: 0/23.5; Ca: 1.0; Ip: 0; Ia: 2
Solar Regions		(13523) N03; (13517) N12
Sunspots		(19555) N11 (βp)2

Note: Regional Flare Indices not available because of problems with computer conversion.

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UAG-34 "Absorption Data for the IGY/IGC and IQSY", compiled and edited by A. H. Shapley, National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, Colorado, U.S.A., W. R. Piggott, Science Research Council, Slough, U.K., and K. Rawer, Arbeitsgruppe für Physikalische Weltraumforschung, Freiburg, G.F.R., June 1974, 381 pages, price $2.00.

UAG-35 "Catalogue of Digital Geomagnetic Variation Data at World Data Center A for Solar-Terrestrial Physics", prepared by Environmental Data Service, NOAA, Boulder, Colorado, July 1974, 20 pages, price 20 cents.

UAG-36 "An Atlas of Extreme Ultraviolet Flashes of Solar Flares Observed Via Sudden Frequency Deviations During the ATM-SKYLAB Missions", by R. F. Donnelly and E. L. Berger, NOAA Space Environment Laboratory, Lt. J. D. Busman, NOAA Commissioned Corps, B. Henson, NASA Marshall Space Flight Center, T. B. Jones, University of Leicester, UK, G. M. Lerfald, NOAA Wave Propagation Laboratory, K. Najita, University of Hawaii, W. M. Retallack, NOAA Space Environment Laboratory, and W. J. Wagner, Sacramento Peak Observatory, October 1974, 95 pages, price 55 cents.

UAG-37 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1966", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, December 1974, 142 pages, price 75 cents.

UAG-38 "Master Station List for Solar-Terrestrial Physics Data at WDC-A for Solar-Terrestrial Physics", by R. W. Buhmann, World Data Center A for Solar-Terrestrial Physics, Juan D. Roederer, University of Denver, Denver, Colorado, M. A. Shea and D. F. Smart, A.F.C.R.L., Hanscom AFB, Massachusetts, December 1974, 110 pages, price $1.60.

UAG-39 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1971", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, February 1975, 144 pages, price $2.05.

UAG-40 "H-Alpha Synoptic Charts of Solar Activity For the Period of Skylab Observations, May, 1973-March, 1974", by Patrick S. McIntosh, NOAA Environmental Research Laboratory, February 1975, 32 pages, price 56 cents.

UAG-41 "H-Alpha Synoptic Charts of Solar Activity During the First Year of Solar Cycle 20 October, 1964 - August, 1965", by Patrick S. McIntosh, NOAA Environmental Research Laboratory, and Jerome T. Nolte, American Science and Engineering, Cambridge, Massachusetts, March 1975, 25 pages, price 48 cents.

UAG-42 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-80 MHz 10 December 1971 through 21 March 1975", by James W. Warwick, George A. Dulk, and Anthony C. Riddle, Department of Astro-Geophysics, University of Colorado, Boulder, Colorado 80302, April 1975, 49 pages, price $1.15.

UAG-43 "Catalog of Observation Times of Ground-Based Skylab-Coordinated Solar Observing Programs", compiled by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, May 1975, 159 pages, price $3.00.

UAG-44 "Synoptic Maps of Solar 9.1 cm Microwave Emission from June 1962 to August 1973", by Werner Graf and Ronald N. Bracewell, Radio Astronomy Institute, Stanford University, Stanford, California 94305, May 1975, 183 pages, price $2.55.

UAG-45 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1972", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, May 1975, 144 pages, price $2.10.

UAG-46 "Interplanetary Magnetic Field Data 1963-1974", by Joseph H. King, National Space Science Data Center, NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, June 1975, 382 pages, price $2.95.

UAG-47 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1973", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, June 1975, 144 pages, price $2.10.

UAG-48 "Synoptic Observations of the Solar Corona during Carrington Rotations 1580-1596 (11 October 1971 - 15 January 1973)", by R. A. Howard, M. J. Koomen, D. J. Michels, R. Tousey, C. R. Detwiler, D. E. Roberts, R. T. Seal and J. D. Whitney, E.O. Hulbert Center for Space Research, NRL, Washington, D. C. 20375 and R. T. and S. F. Hansen, C. J. Garcia and E. Yasukawa, High Altitude Observatory, NCAR, Boulder, Colorado 80303, July 1975, 200 pages, price $3.00.

UAG-49 "Catalog of Standard Geomagnetic Variation Data", prepared by Environmental Data Service, NOAA, Boulder, Colorado, August 1975, 125 pages, price $1.85.

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The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."