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Solar - Geophysical Data

NO. 372 AUGUST 1975

Part II (Comprehensive Reports)

DATA FOR
FEBRUARY 1975
JANUARY 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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No. 372

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Solar - Terrestrial Data Services Division

C O N T E N T S

Part I (Prompt Reports)

Part II (Comprehensive Reports)

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SGD 372 Part II (Comprehensive)

FEBRUARY 1975 DATA

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Hα SOLAR FLARES

FEBRUARY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	
RAMY	02	1310	1340	1314	S12	E61	.870		7.1	30	SF	4	C		36		DE
HUAN	02	1509	1516		S13	E63	.886		7.4	7	SF	1	C				
MCMA	02	1510	1520	1511	S12	E62	.878	13465	7.3	10	SN		C	1511	25	.5	D
MCMA	02	1720	1731	1724	S12	E60	.861	13465	7.2	11	SF		C	1724	25	.5	D
ABST	03	0840	0901	0848	S07	E61	.871		7.9	21	SN		C	0848	87	1.7	DJ
ABST	03	0920	0935	0926	S08	E62	.879		8.0	15	SF		C	0926	96	1.9	DJ
HTPR	03	1020	1027	1024	S09	E58	.843		7.8	7	SF		C				
HTPR	03	1020	1027	1022	S09	E58	.843		7.8	7	SF		C	1022	10	.2	K
HTPR	03	1025	1028	1025	S12	E60	.861		7.9	3	SF		C	1025	10	.2	
HTPR	03	1028	10550	1032	S08	E59	.853		7.9	270	SF		C	1032	20	.4	
HTPR	03	1031	10550		S12	E48	.740		7.0	240	SF		C	1034	20	.2	
HTPR	03	1052	10550		S10	E57	.834		7.7	30	SF		C	1052	10	.2	
HTPR	03	1128	1130	1129	S10	E57	.834		7.8	2	SF		C	1129	10	.2	
HTPR	03	1133	1142	1134	S10	E57	.834		7.8	9	SN		C	1134	30	.5	K
HTPR	03	1205	1208	1207	S08	E58	.844		7.9	3	SF		C	1207	10	.2	
HTPR	03	1206	1208	1208	S10	E56	.824		7.7	2	SF		C	1208	10	.2	
HTPR	03	1211	1235	1215	S08	E58	.844		7.9	24	SN		C	1215	10	.2	
HTPR	03	1220	1227	1223	N01	E90	1.000		10.3	7	SF		C	1223	10		
HTPR	03	1236	12570		N01	E90	1.000		10.3	210	SF		C	1239	20		
HTPR	03	1245	1247	1246	S10	E56	.824		7.7	2	SF		C	1246	10	.1	
RAMY	03	1248	1257	1249	S 7	E56	.825		7.7	9	SF	3	C		27		DE H
HTPR	03	1249	1257	1250	S10	E56	.824		7.7	8	SB		C	1250	40	.7	
HTPR	03	1435	1441	1437	S08	E57	.834		7.9	6	SF		C	1437	10	.1	
HTPR	03	1515	1535	1516	S08	E56	.825		7.8	20	SB		C	1516	20	.3	EK
RAMY	03	1515	1533	1518	S 6	E58	.845		8.0	18	SF	3	C		20		DE
HTPR	03	1515	1535	1526	S08	E56	.825		7.8	20	SB		C				
MCMA	03	1516	1529	1518	S08	E58	.844	13465	8.0	13	SN		C	1518	35	.6	E
BOUL	03	1517	1539	1518	S 9	E57	.834		7.9	22	SF	2	C	1518	32	.6	
HTPR	03	1536	1553	1548	S12	E45	.704		7.0	17	SF		C	1548	20	.3	K
BOUL	03	1547	1600	1552	S10	E56	.824		7.9	13	SF	2	C	1552	21	.4	
HTPR	03	1551	1554	1552	S10	E55	.814		7.8	3	SN		C	1552	20	.3	
RAMY	04	2156	22060	2157	N 4	E64	.904		9.7	100	SF	2	C		36		DE
MANI	05	0049	0057	0052	N02	E64	.902		9.8	8	SN	2		0052	50	1.0	F
MANI	05	0655	0714	0657	N03	E62	.888		9.9	19	SF	2		0657	40	.8	F
HUAN	05	1324	1335	1330	N02	E54	.815		9.6	11	SF	1	C	1330	25	.4	DT
HUAN	05	1352	1358	1354	N02	E54	.815		9.6	6	SN	1	C	1354	45	.8	
MEUD	05	1352	1358	1352	N02	E56	.834		9.8	6	SF		C	1352	30	.5	
RAMY	05	1354	1406	1356	N 4	E53	.808		9.6	12	SN	3	C		36		DE H
HERS	05	1356E	1409	1356	N03	E54	.816		9.6	130	SN		P	1356	43	.8	E
HUAN	05	1432	1443	1438	N02	E53	.804		9.6	11	SF	2	C	1438	50	.9	
RAMY	05	1510	1528	1514	S 9	E26	.437		7.6	18	SF	3	C		27		DE
HUAN	05	1511	1522	1513	S11	E26	.440		7.6	11	SF	1	C	1513	40	.5	E
RAMY	05	1531	1548	1536	N 4	E52	.798		9.5	17	SN	3	C		27		DE H
HUAN	05	1532	1539	1536	N02	E54	.815		9.7	7	SN	2	C	1536	50	.9	E
MEUD	05	1532	1537	1533	N02	E55	.824		9.8	5	SF		C	1533	30	.5	
HUAN	05	1557	1606	1600	N02	E54	.815		9.7	9	SF	1	C	1600	40	.7	
HUAN	05	1639	1659	1645	N02	E53	.804		9.7	20	SN	1	C	1645	75	1.2	
RAMY	05	1643	1657	1647	N 4	E51	.787		9.5	14	SF	3	C		54		DE
HUAN	05	1735	17570		N02	E52	.794		9.6	220	SB	1	P	1756	40	.7	
RAMY	05	1753	1814	1758	N 4	E50	.777		9.5	21	SN	3	C		63		F
PALE	05	1755	1821	1803	N 4	E56	.837	13470	9.9	26	1B	2	V		120		DE H
PALE	05	1755	1821	1803	N 4	E56	.837	13470	9.9	26	1B	2	C		120		DE H
HUAN	05	1853	19100		N02	E52	.794		9.7	170	SN	1	P	1910	35	.5	E
PALE	05	1911	1932	1918	N 4	E55	.828		9.9	21	SB	3	V		80		DE H
RAMY	05	1911	1922	1913	N 4	E49	.766		9.5	11	SB	3	C		27		DE H
PALE	05	1913E	1932	1918	N 4	E53	.808		9.8	190	SB	3	C		90		DE H
RAMY	05	1914E	1923	1915	N 4	E51	.787		9.6	90	SB	4	V		25		DE H
RAMY	05	1914E	1923	1915	N 4	E51	.787		9.6	90	SB	4	C		25		DE H
PALE	05	2100E	21040	2103U	N 2	E51	.784		9.7	40	SF	2	C		50		DE
PALE	05	2101E	21210	2105U	N 3	E51	.785		9.7	200	SF	2	V		50		DE
RAMY	05	2132	2140	2133	N 4	E47	.744		9.4	8	SF	2	C		20		DE
RAMY	05	2203	22070	2204	N 4	E46	.732		9.4	40	SF	2	C		27		DE
MANI	05	2256E	2301	2250U	N03	E50	.775		9.7	110	SF	1		2250	40	.6	F
MANI	06	0227	0248	0229	N03	E49	.764		9.8	21	SF	2		0229	30	.4	
MANI	06	0250	0316	0259	N03	E49	.764		9.8	20	SF	2		0259	30	.4	
PALE	06	0254	0309	0259	N 2	E48	.751		9.7	15	SF	2	C		45		DE
PALE	06	0256E	03060	03003	N 2	E49	.762		9.8	100	SF	2	V		40		DE
MANI	06	0510	0542D	0514U	N03	E46	.730		9.7	320	SF	2		0514	40	.6	H
MANI	06	0510	0542D	0538	N03	E46	.730		9.7	320	SF			0538	60	.9	
MONT	06	0940	0946	0942	N02	E43	.691		9.6	6	SF		C	0942	20		
MONT	06	1053	1105	1056	S10	E22	.376		8.1	12	SN		C	1056	60		D
MONT	06	1225	1230	1225	N03	E40	.656		9.5	5	SF		C	1225	20		D
BOUL	06	1451	1501	1455	N 1	E38	.624		9.5	10	SF	1	C	1455	32	.4	
CATA	06	1500	1555	1520	N01	E40	.651		9.6	55	SN	3		1520	56	.7	
HUAN	06	1731E	1737		N02	E41	.666		9.8	60	SF	1	P	1733	35	.5	
HUAN	06	1810	1922		N02	E39	.640		9.7	72	SF	1	C	1852	40	.5	

NOTE: The measured area is now reported in millionths of the solar disk.

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.

Hα SOLAR FLARES

FEBRUARY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
PALE	06	1811	1913	1832	N 4	E39	.647		9.7	62	SN	2	C		35		DE
PALE	06	1811	1845	1813	N 4	E43	.697		10.0	34	SF	3	V		40		DE
HUAN	06	1925	1928D		N02	E37	.614		9.6	30	SF	1	P	1927	30	.4	
VORO	07	0210	0225	0215	N04	E34	.581		9.6	15	SB		C	0215	99	1.2	EJ
KODA	07	0211E	0426	0218	N03	E33	.563		9.6	135D	SN		P	0218	191	2.0	D
MANI	07	0213E	0216D	0213U	N03	E36	.604		9.8	3D	SF	1		0213	80	1.0	F
HTPR	07	0959E	1012D		N03	E31	.535		9.7	13D	SF		C	0959	10	.1	
HTPR	07	1041E	1048D		N03	E30	.521		9.7	7D	SN		C	1048	20	.2	E
WEND	07	1130	1142		N03	E28	.492		9.6	12	SN						
WEND	07	1206	1220		N02	E27	.473		9.5	14	SN						
WEND	07	1349	1401		N02	E27	.473		9.6	12	SF						
WEND	07	1418	1432		N02	E27	.473		9.6	14	SB						
MCMA	07	1419	1425	1420	N03	E27	.478	13470	9.6	6	SF		C	1420	25	.3	D
WEND	07	1452	1500		N02	E25	.444		9.5	8	SN						
MCMA	07	1925	1931	1927	S12	W04	.119	13465	7.5	6	SF		P	1927	30	.3	E
PALE	07	1926	1933	1928	S12	W 4	.119		7.5	7	SF	3	V		30		U
PALE	07	1926	1930D	1928	S12	W 6	.142		7.4	4D	SF	3	C		35		U
HTPR	08	0742	0754	0750	N02	E18	.340		9.7	12	SF		C	0750	20	.2	K
HTPR	08	0812	0821	0814	S15	W14	.279		7.3	9	SF		C	0814	10	.1	
HTPR	08	0831	0902	0834	S15	W14	.279		7.3	31	SF		C	0834	10	.1	
HTPR	08	0958	1015	1004	S15	W13	.265		7.4	17	SF		C	1004	20	.2	
HTPR	08	1030	1105	1032	S15	W16	.307		7.2	35	SF		C	1042	10	.1	
HTPR	08	1030	1105	1042	S15	W16	.307		7.2	35	SF		C				
HTPR	08	1049	1126	1100	S15	W13	.265		7.5	37	SF		C	1100	20	.2	
HTPR	08	1120	1210	1150	N06	E15	.334		9.6	50	SF		C	1150	10	.1	
HTPR	08	1137	1208	1202	S15	W13	.265		7.5	31	SF		C	1202	10	.1	
HTPR	08	1155	1234	1218	S15	W12	.251		7.6	39	SF		C	1218	20	.2	E
HTPR	08	1505	1510	1505	N05	E12	.285		9.5	5	SF		C	1505	10	.1	
HTPR	09	1034	1038	1036	N05	W04	.211		9.1	4	SF		C	1036	10	.1	
ATHN	11	1301	1307	1303	N 4	W27	.484		9.5	6	SF	5	C		48		DE
ATHN	11	1301	1307	1303	N 4	W27	.484		9.5	6	SF	4	V		48		DE
RAMY	11	1301	1316	1306	N 3	W27	.479		9.5	15	SF	4	C		63		DE
HUAN	11	1302	1330	1303	N04	W29	.513		9.4	28	SN	1	C	1303	40	.5	E
LVOV	11	1305E	1315	1306D	N04	W26	.470		9.6	10D	1F		P	1306	400	4.7	E
WEND	11	1315E	1340		N02	W26	.459	13470	9.6	25D	1N		P		500	5.5	
LVOV	13	1303	1330	1311D	N04	W54	.819		9.5	27	1F		C	1311	250	4.5	E
RAMY	13	1308	1332	1313	N 3	W55	.827		9.4	24	SN	4	C		63		F
MCMA	13	1310E	1340		N04	W54	.819	13470	9.5	30D	SN		C	1311	80	1.4	E
HTPR	13	1310	1338	1312	N05	W59	.866		9.1	28	SB		C	1312	80	1.3	E
MCMA	13	1435	1450	1437	N04	W56	.838	13470	9.4	15	SN		C	1437	80	1.5	E
RAMY	13	1435	1452	1437	N 3	W56	.836		9.4	17	SF	3	C		54		F
HTPR	13	1436	1500	1438	N05	W60	.875		9.1	24	SN		C	1438	20	.3	EK
HTPR	13	1455	1505	1500	S10	W78	.975		7.8	10	SF		C	1500	10		
HTPR	13	1458	1601D		N05	W62	.891		9.0	63D	SF		C	1501	10	.2	
BOUL	13	2011	2049D	2019	N 3	W58	.855		9.5	38D	SN	3	P	2019	96	1.8	
HTPR	20	1248	1254	1252	N10	W01	.293		20.5	6	SF		C	1252	20	.2	E
HTPR	20	1305	1325	1320	N10	W02	.294		20.4	20	SF		C	1320	20	.2	E
HTPR	20	1404	1437	1408	N10	W03	.297		20.4	33	SF		C	1408	20	.2	E
HTPR	22	1057E	1106		N02	W02	.161		22.3	9D	SF		C	1057	10	.1	E
HTPR	22	1318	1333	1320	N02	W04	.172		22.3	15	SF		C	1318	20	.2	E
HTPR	23	1400	1408	1405	S10	E16	.277		24.8	8	SF		C	1405	20	.2	
HTPR	24	0800	0820	0816	S09	E04	.076		24.6	20	SF		C	0816	40	.4	ET
HTPR	24	0830	0857	0851	S09	E03	.061		24.6	27	SF		C	0851	30	.3	ET
TEHR	27	0418E	0429	0422	S 8	W31	.511		24.9	11D	SF	4	V		60		F
MCMA	27	1018	1025		S07	W37	.598		24.6	15	SF		C	1016	30	.4	D

DAILY FLARE INDICES

Includes all Flares

Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
750202	1.34	23.3	750210	0.00	20.8	750221	0.00	22.8
750203	11.78	24.0	750211	12.28	18.1	750222	0.28	21.8
750204	0.68	24.0	750212	0.00	23.0	750223	0.22	22.9
750205	17.15	23.1	750213	16.47	13.3	750224	1.33	23.2
750206	8.48	23.9	750214	0.00	23.5	750225	0.00	21.2
750207	24.82	20.0	750215	0.00	23.2	750226	0.00	23.9
750208	0.75	23.5	750217	0.00	23.8	750227	2.38	24.0
750209	3.05	23.7	750220	0.69	21.3	750228	0.00	23.5

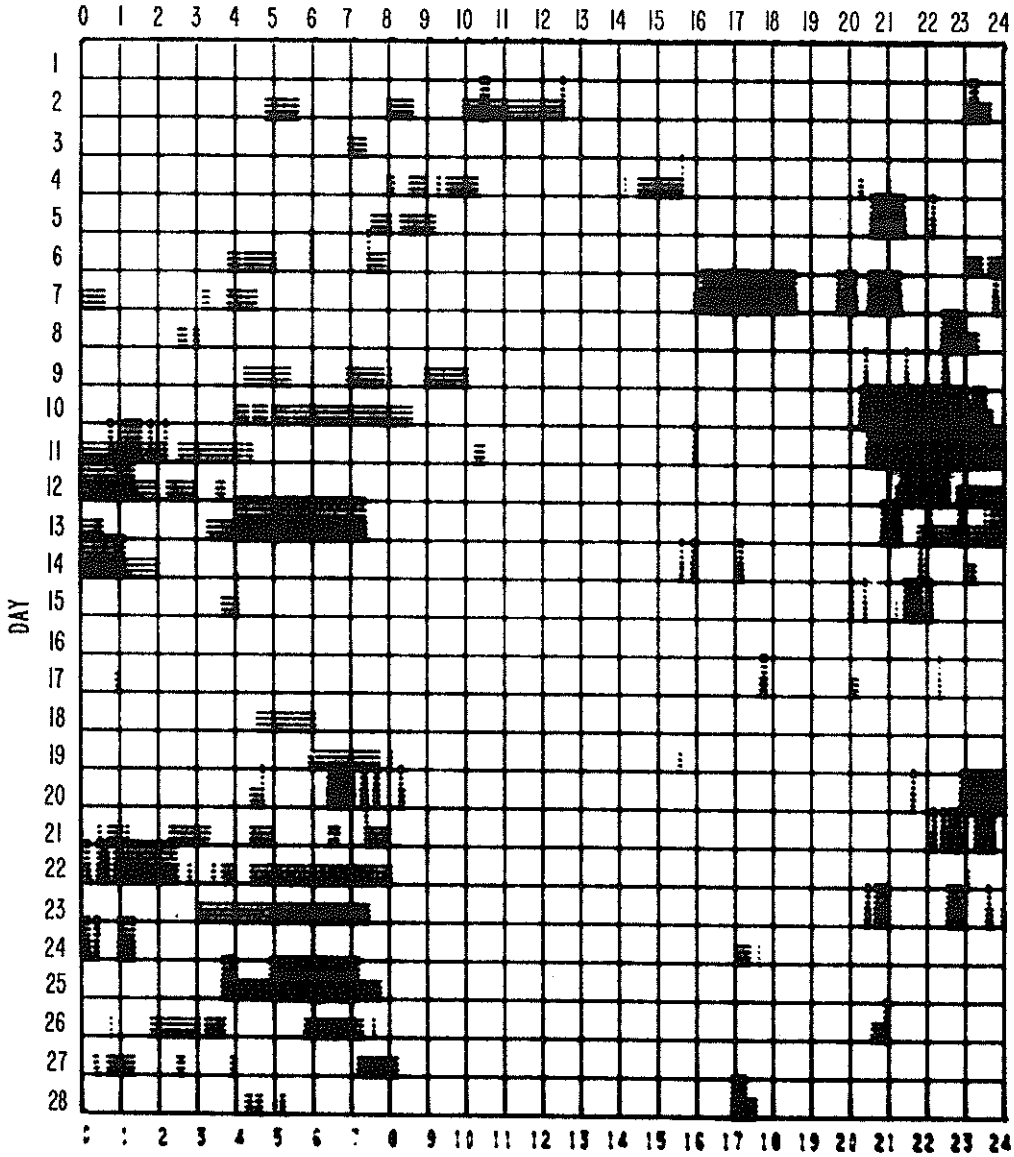
When no Flare Index is given, it is 0 for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

FEBRUARY 1975

HOUR-UT



Observatories included in total patrol:

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

FEBRUARY 1975

FEB 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
1	4995	BOUL	3 S	1850	1851.5	2.5	10	3		
2	4995	BOUL	3 S	1850.5	1850.2	2.5	8	3		
3	18	MCMA	6 S	1423	1425	2			1	
	18	MCMA	6 S	1527	1528	2			1	
	2800	OTTA	2 S/F	1942	1944	3	1.8	0.8		
4	1000	TYKW	5 S	0157.5	0158	2.5	1.5	0.5		OR
5	29	UPIC	8 S	1312.6	1312.8	0.4				
	33	UPIC	8 S	1312.6	1312.7	0.4				
	260	ONDR	3 S	1353.8	1354.7	1.7	11	1.1		
	245	SGMR	6 S	1354.1	1354.5	2.4	10	3		
	237	TRST	45	1354.2	1354.5	2	44	11		11R
	29	UPIC	8 S	1354.2	1354.6	0.5				
	33	UPIC	8 S	1354.3	1354.6	0.5				
	2800	OTTA	27AFRF	1715		135	1.8	1.3		
	2800	OTTA	24 R	1715	1800	45	1.8	0.9		
	2695	BOUL	40 F	1757	1803	6	7	2		
	2800	OTTA	24P R	1800		60	1.8			
	245	SGMR	6 S	1828.3	1829	6.2	20.7	6.2		
	410	SGMR	6 S	1828.5	1828.9	3.8	4.6	1.4		
	606	SGMR	4 S/F	1828.6	1829	3.8	12.2	3.7		
	2800	OTTA	26 FAL	1900	1930	30	-1.8	-1		
	410	SGMR	6 S	1908.9	1918	11.3	5.8	1.7		
	245	SGMR	6 S	1911.9	1919.5	8.6	44.9	13.5		
	1420	BOUL	45 C	1912	1913	3.5	6	2		
	2800	OTTA	2 S/F	1912	1913	3	1.6	0.9		
	2800	OTTA	240 R	1950	2140	110	2.8	1.6		
	2695	PENT	24P R	2140		100 D	2.8			
6	260	ONDR	43 NS	0910	1138.3	324 D	11			
	18	MCMA	6 S	1337	1338	2			1	
	2700	PENN	8	1537.7	1538.2	0.5	66			
7	200	GORK	44 NS	0606 E		114 D		10		
	260	ONDR	44 NS	0824 E		332 D	13			
	200	GORK	44 NS	1100 E		120 D		10		
	650	GORK	1 S	1125.7	1130.9	10.9	5			
	18	MCMA	6 S	1344	1345	1			1	
	2800	OTTA	27 RF	1840		100	0.8	0.7		
	2800	OTTA	24 R	1840	1845	5	0.8	0.4		
	2800	OTTA	24P R	1845		70	0.8			
	2800	OTTA	26 FAL	1955	2020	25	-0.8	-0.4		
	200	HIRA	44 NS	2135 E	0006	635 D	30	17		R
8	100	GORK	43 NS	0554		196		5		
	200	GORK	44 NS	0554 E		366 D		35		
	260	ONDR	44 NS	0752 E	0801	348 D	29			
	100	GORK	8 S	0611.7	0612	0.9	50			
	100	GORK	46 C	0709.3	0709.5U	2.7	80 D			
	100	GORK		0709.3	0711.5		80			
	113	POTS	C	0709.3	0709.3	0.1	175	40		
	234	POTS	C	0727.5	0727.6	0.2	130	6		
	100	GORK	2 S/F	0856.7	0958.3	2.1	60	30		
	113	POTS	C	0911.8	0911.8	0.2	150	30		
	33	UPIC	8 S	0911.8	0911.8	0.3				
	29	UPIC	8 S	0911.9	0912.1	0.5				
	200	GORK	8 S	0912	0912.2	0.5	75	30		
	100	GORK	S	0912	0912	0.3	100 D	50		
	100	GORK	8 S	0945.4	0945.8	0.6	90	45		
	200	GORK	2 S/F	0957.9	0958.9	1	85	40		
9	100	GORK	2 S/F	0934.1	0934.4	0.6	10	5		
	33	UPIC	3 S	0941.7	0942.1	0.6				
	29	UPIC	3 S	0942.2	0942.5	0.5				
	100	GORK	2 S/F	0942.2	0942.8	1.1	30			
10	260	ONDR	44 NS	0820 E	1248.6	410 D	27			
	127	TORN	45 C	0950 U	1124	150 U	35			
	18	MCMA	6 S	2211	2212	2			1	
11	260	ONDR	44 NS	0822 E		395 D	11			
	2800	OTTA	1 S	1540	1540.5	3.5	0.7	0.5		
12	260	ONDR	44 NS	0815 E		380 D	22			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY 1975

FEB 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
	200	GORK	44 NS	0900		210 D		10		
13	260	ONDR	42 SER	1221.4	1221.9	6	7	0.8		
	3000	BERL	1	1307.5	1309.8	42	3.8	2		
	1470	BERL	2	1308	1309.7	11	1.2	0.7		
	2800	OTTA	1 S	1308	1310	6	4.4	2		
	2800	OTTA	29 PBI	1314	1314	20	1.8	1		
	18	MCMA	6 S	1345	1346	1			1	
	2800	OTTA	21A GRF	1434.3	1435	16	1.8	0.9		
	2800	OTTA	8 S	1438.4	1438.6	0.4	5.8			
	2800	OTTA	20 GRF	2005	2015	85	1.8	0.9		
	1420	BOUL	3 S	2013	2015	5.5	2	1		
	18	MCMA	6 S	2339	2340	2			1	
18	2800	OTTA	22F GRF	1935	1957	75	1.6	0.6		
	2695	PENT		1935	1957	75				NULL
19	536	ONDR	45 C	1002.3	1003.5	3.7	7	4.5		UNCERTN
	260	ONDR	46 C	1002.7	1004	2.9	27	9		UNCERTN
20	18	MCMA	6 S	1218	1219	2			1	
	18	MCMA	6 S	1323	1325	2			1	
	18	MCMA	6 S	1415	1416	2			1	
21	1420	ARCE	20	0858.5	0904.1	20.8				
	9240	ARCE		0905.9	0906.3	1.3				
	9240	ARCE	45	0905.9	0906.3	2.7				
	9240	ARCE		0907.2	0907.7	1.4				
	18	MCMA	6 S	1346	1347	2			1	
22	18	MCMA	6 S	1507	1508	2			1	
23	18	MCMA	6 S	1800	1802	2			1	
24	9400	TYKW	5 S	0335	0335.5	1	17	4		OR
	930	BORD	42 SER	1332.4	1332.6	0.9	13	3		
	4995	BOUL	3 S	1840.5	1841.5	1.5	9	3		
	2695	BOUL	1 S	1841	1842	2.5	2	1		
	4995	BOUL	3 S	1849.5	1851.5	3	6	2		
	2695	BOUL	1 S	1851	1852.5	3.5	3	1		
25	18	MCMA	6 S	1347	1349	2			1	
	2700	PENN	1	1406.3	1407.5	4	1.6	0.5		
	2700	PENN	45	1521.5	1522.9	2.6	57.1	0.7		
26	100	GORK	2 S/F	0912.8	0913.1U	0.5	170 D			
	200	GORK	2 S/F	0912.8	0913.1	0.5	130	65		
	18	MCMA	6 S	1324	1325	2			1	
27	18	MCMA	41 F	1239	1242	3			1	
	18	MCMA	6 S	1339	1341	2			1	
	2700	PENN	1	1504.9	1505.2	3.3	3.2	0.4		
	1420	BOUL	40 F	1813	1829.5	24	38	10		
28	18	MCMA	6 S	1209	1210	2			1	

Reports received from the following observatories:

ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice

Explanation of Type Code:

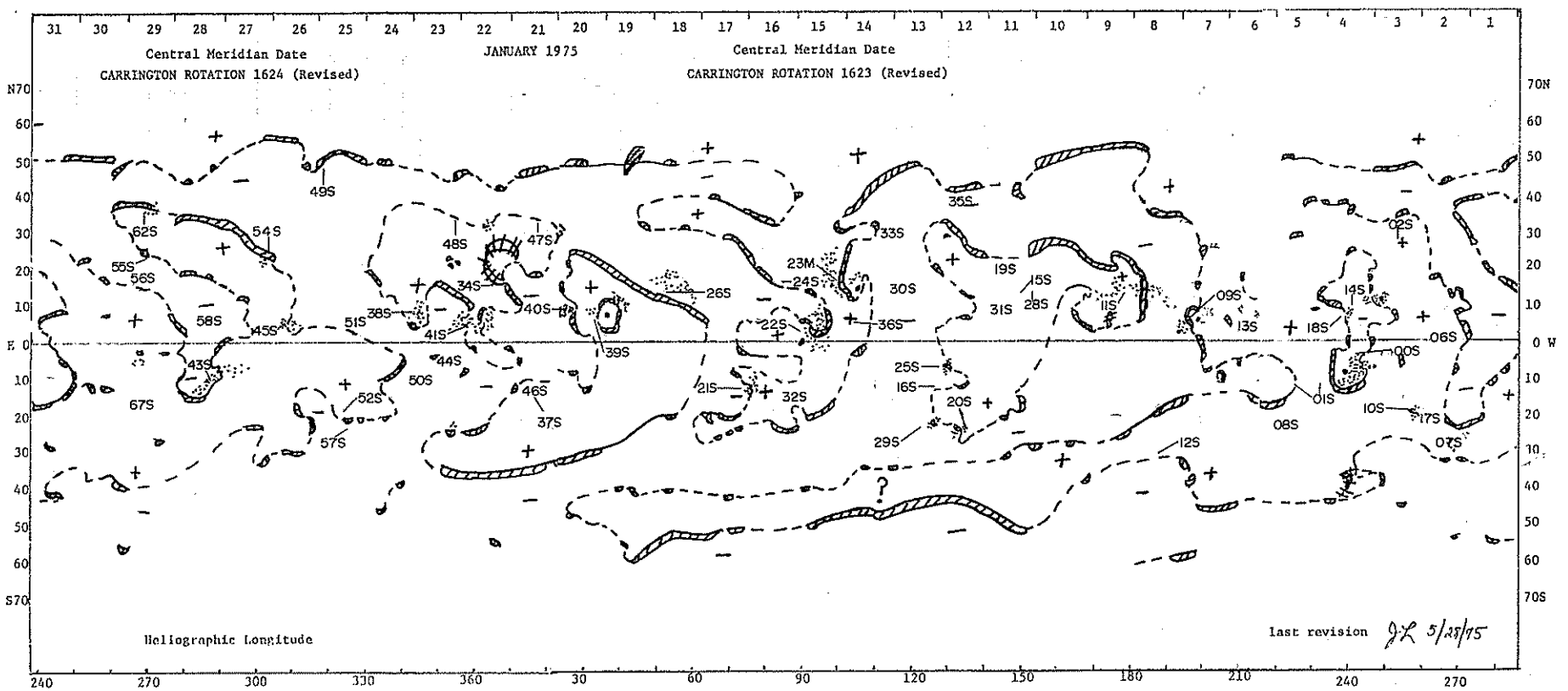
1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of 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 +

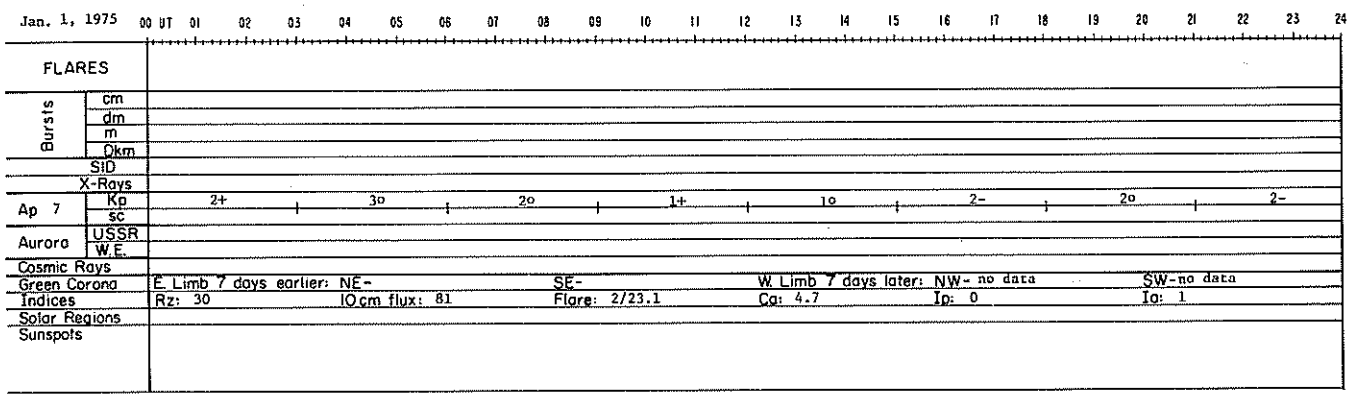
JANUARY 1975 DATA

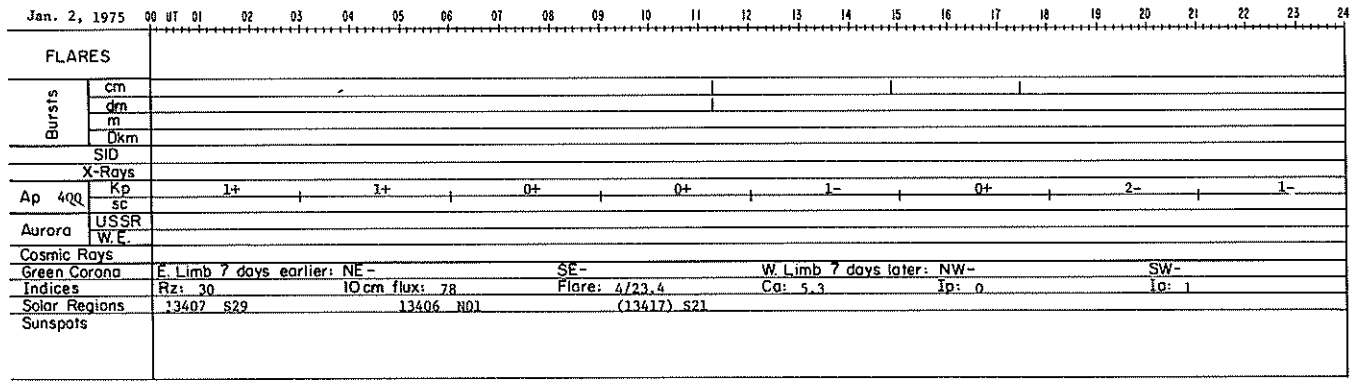
Contents

ABBREVIATED CALENDAR RECORD

JANUARY 1975




Jan. 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 7
Kp
sc
2+ 3o 2o 1+ 1o 2- 2o 2-
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: 30
10cm flux: 81
Flare: 2/23.1
Ca: 4.7
Ip: 0
Io: 1
Solar Regions
Sunspots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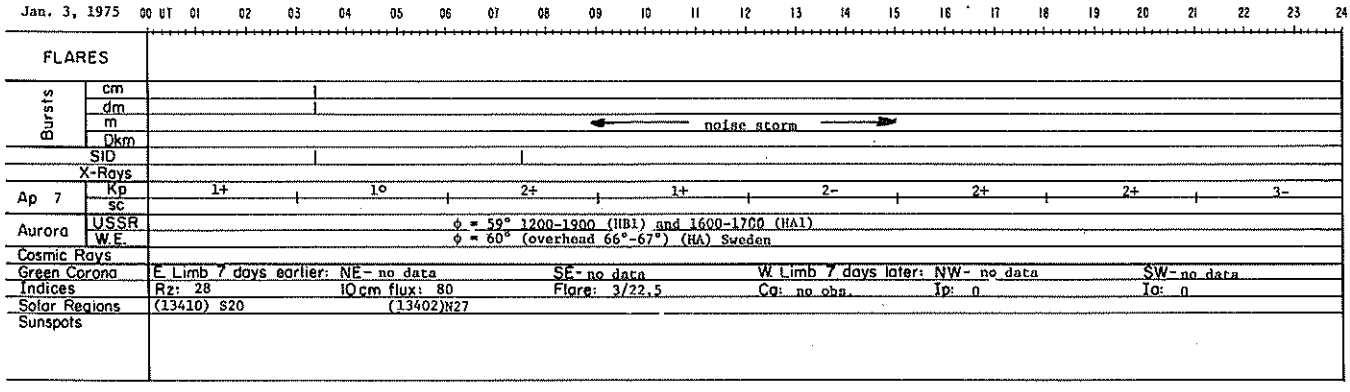
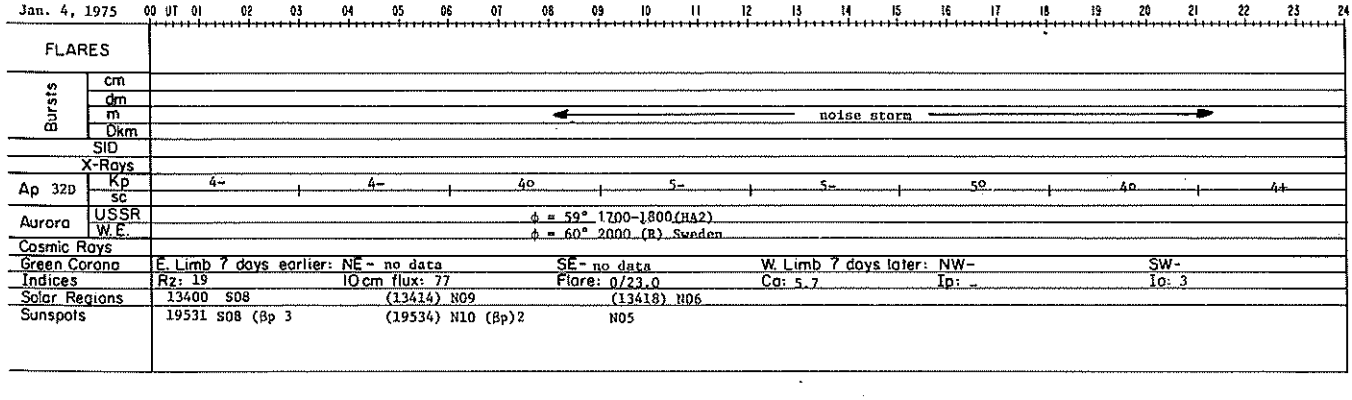
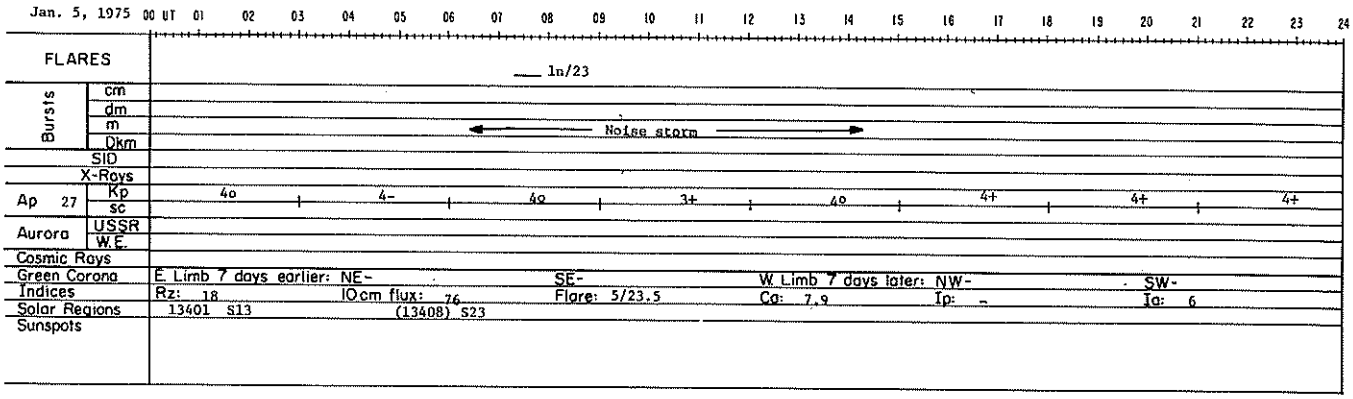
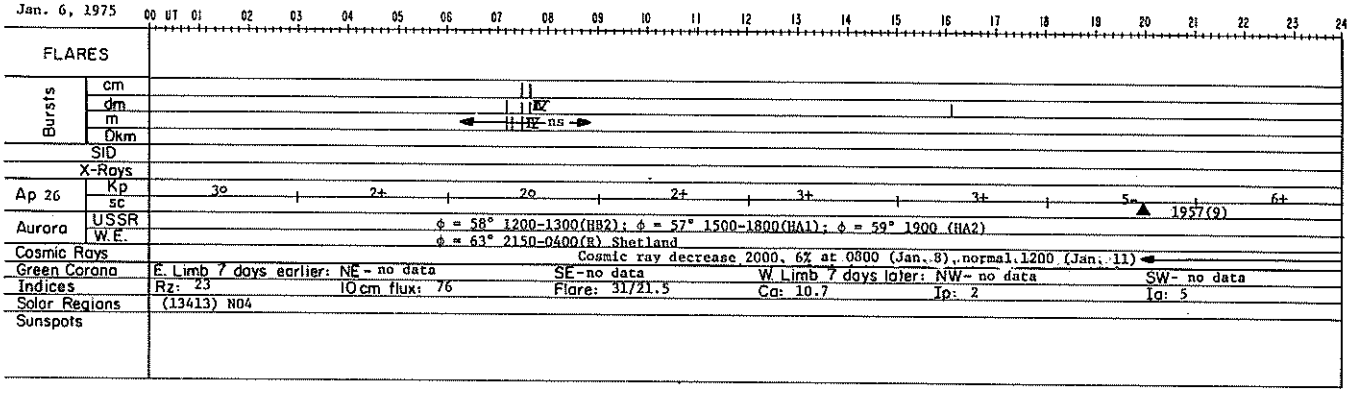
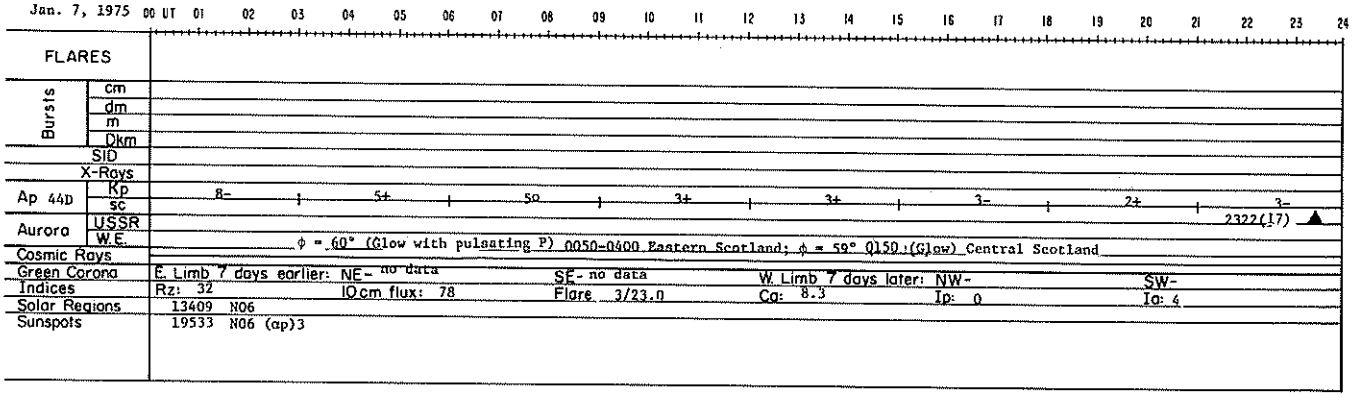
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 4QQ
Kp
sc
1+ 1+ 0+ 0+ 1- 0+ 2- 1-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 30
10cm flux: 78
Flare: 4/23.4
Ca: 5.3
Ip: 0
Io: 1
Solar Regions
13407 S29
13406 N01
(13417) S21
Sunspots

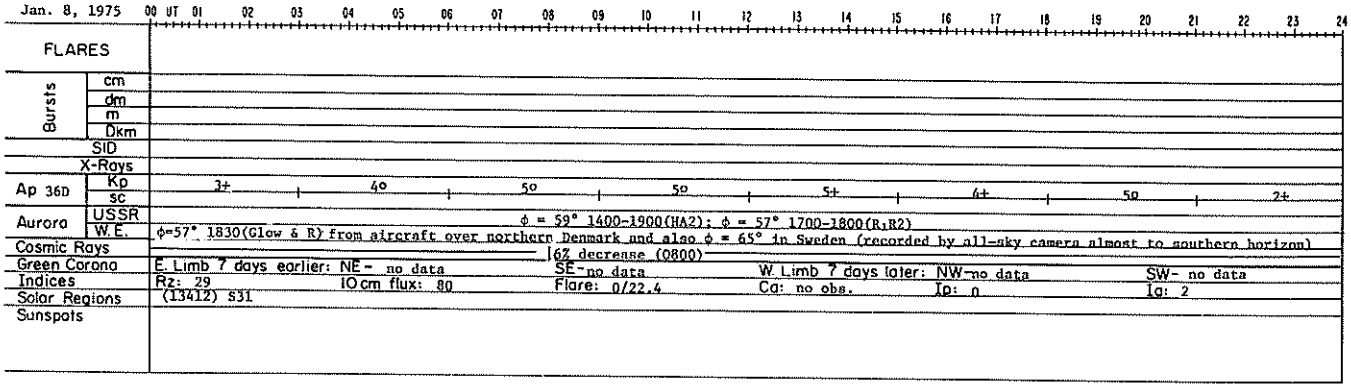

Jan. 3, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
noise storm
Dkm
SID
X-Rays
Ap 7
Kp
sc
1+ 1o 2+ 1+ 2- 2+ 2+ 3-
Aurora
USSR
W.E.
ϕ = 59° 1200-1900 (HB1) and 1600-1700 (HA1)
ϕ = 60° (overhead 66°-67°) (HA) Sweden
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 28
10cm flux: 80
Flare: 3/22.5
Ca: no obs.
Ip: 0
Io: 0
Solar Regions
(13410) S20
(13402)N27
Sunspots

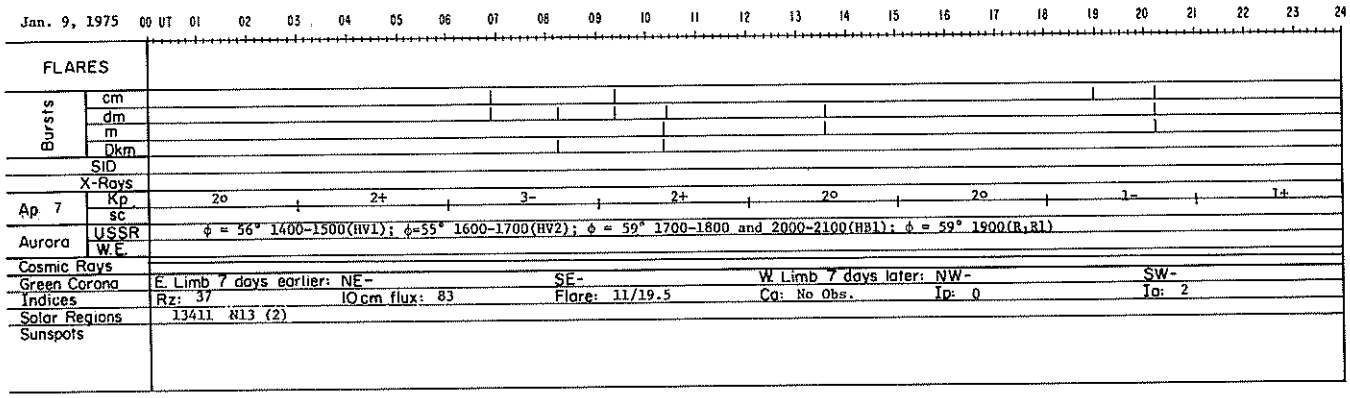

Jan. 4, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
noise storm
Dkm
SID
X-Rays
Ap 32D
Kp
sc
4- 4- 4o 5- 5- 5o 4o 4+
Aurora
USSR
W.E.
ϕ = 59° 1700-1800(HA2)
ϕ = 60° 2000 (R) Sweden
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 19
10cm flux: 77
Flare: 0/23.0
Ca: 5.7
Ip: -
Io: 3
Solar Regions
13400 S08
(13414) N09
(13418) N06
Sunspots
19531 S08 (βp 3
(19534) N10 (βp)2
N05

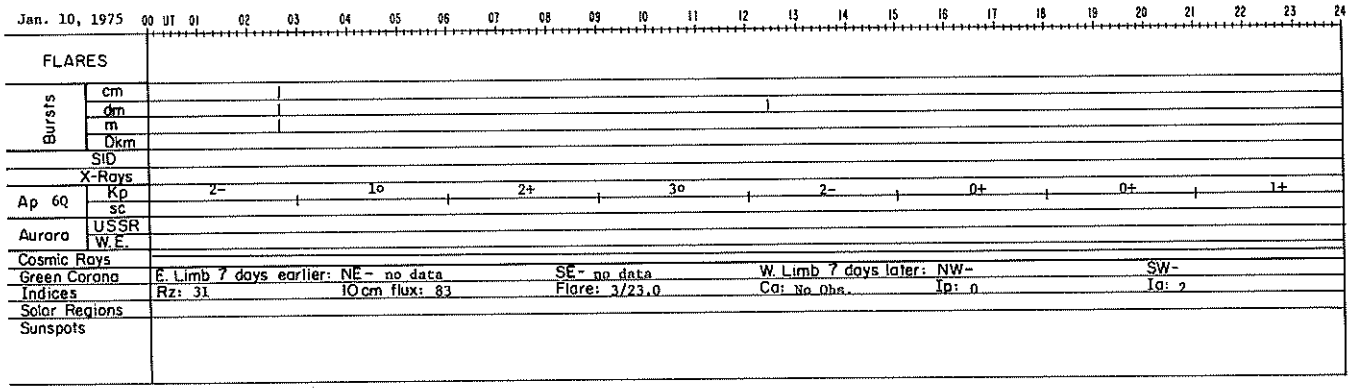

Jan. 5, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/23
Bursts
cm
dm
m
Dkm
Noise storm
SID
X-Rays
Ap 27
Kp
sc
4o 4- 4o 3+ 4o 4+ 4+ 4+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 18
10cm flux: 76
Flare: 5/23.5
Ca: 7.9
Ip: -
Ia: 6
Solar Regions
13401 S13
(13408) S23
Sunspots

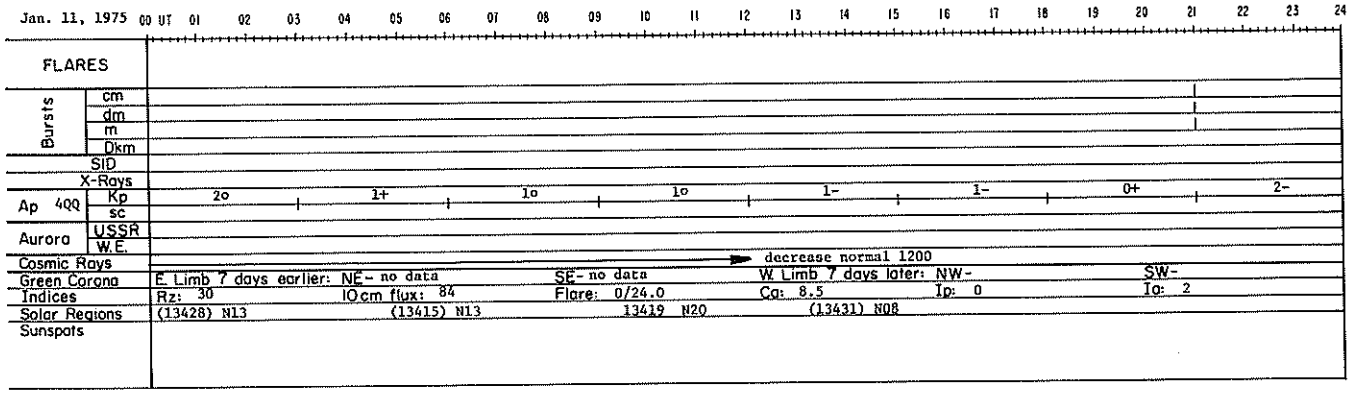

Jan. 6, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
1Z
1N ns
SID
X-Rays
Ap 26
Kp
sc
3o 2+ 2o 2+ 3+ 3+ 5- 6+
1957(9)
Aurora
USSR
W.E.
ϕ = 58° 1200-1300(HB2); ϕ = 57° 1500-1800(HA1); ϕ = 59° 1900 (HA2)
ϕ = 63° 2150-0400(R) Shetland
Cosmic Rays
Cosmic ray decrease 2000, 6% at 0800 (Jan. 8), normal 1200 (Jan. 11)
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: 23
10cm flux: 76
Flare: 31/21.5
Ca: 10.7
Ip: 2
Ia: 5
Solar Regions
(13413) N04
Sunspots

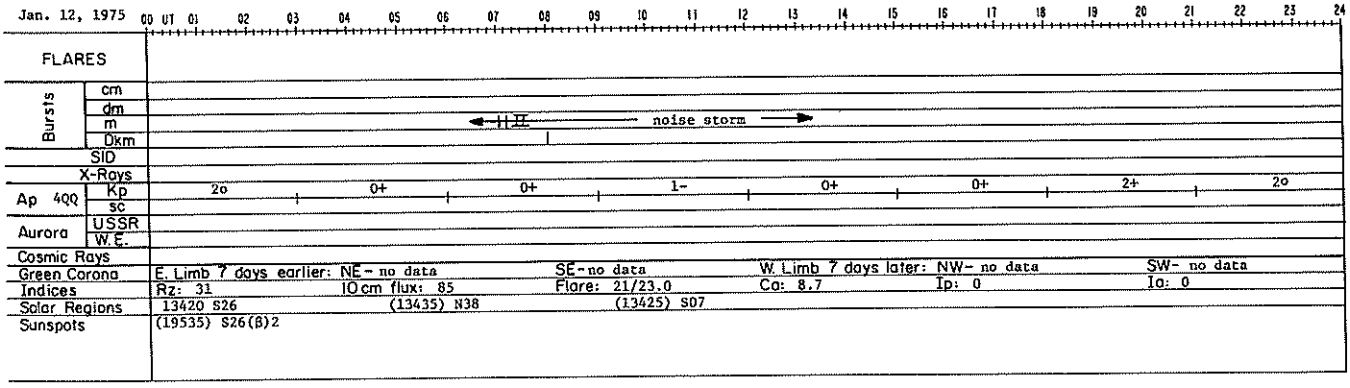

Jan. 7, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 44D
Kp
sc
8- 5+ 5o 3+ 3+ 3- 2+ 3-
2322(17)
Aurora
USSR
W.E.
ϕ = 60° (Glow with pulsating P) 0050-0400 Eastern Scotland; ϕ = 59° 0150 (Glow) Central Scotland
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 32
10cm flux: 78
Flare 3/23.0
Ca: 8.3
Ip: 0
Ia: 4
Solar Regions
13409 N06
Sunspots
19533 N06 (αp)3

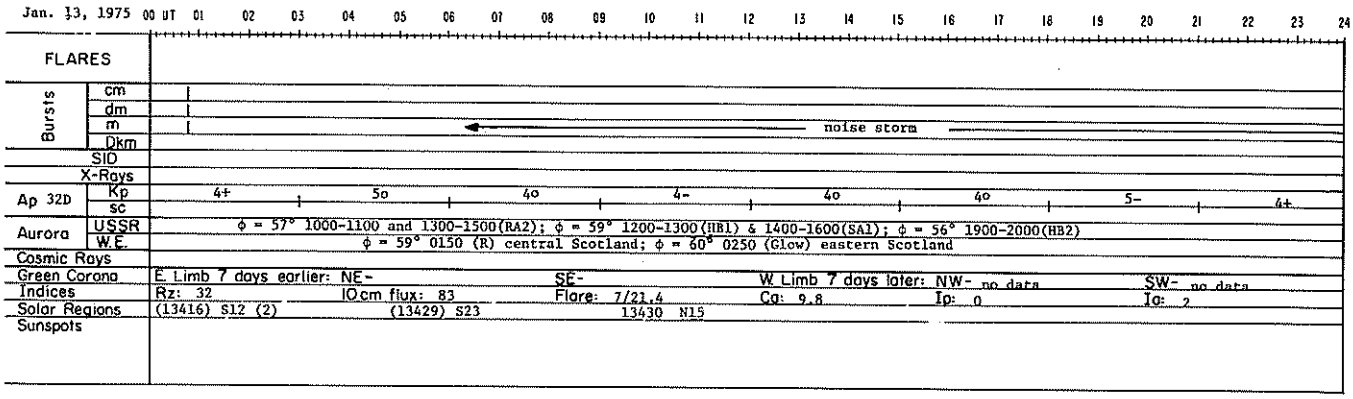

Jan. 8, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 36D
Kp
sc
3+ 4o 5o 5o 5+ 6+ 5o 2+
Aurora
USSR
W.E.
ϕ = 59° 1400-1900(HA2); ϕ = 57° 1700-1800(R1R2)
ϕ=57° 1830(Glow & R) from aircraft over northern Denmark and also ϕ = 65° in Sweden (recorded by all-sky camera almost to southern horizon)
Cosmic Rays
6% decrease (0800)
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: 80
Flare: 0/22.4
Ca: no obs.
Ip: 0
Ia: 2
Solar Regions
(13412) S31
Sunspots

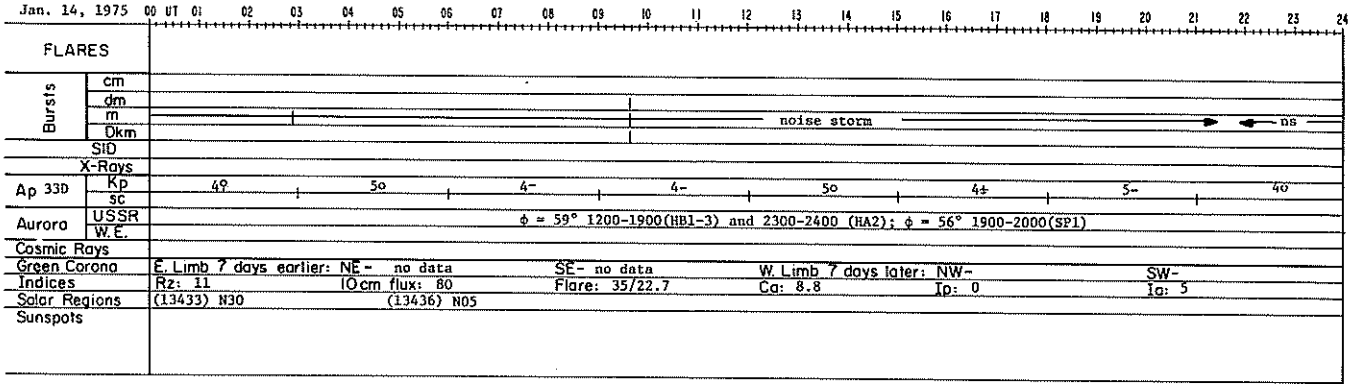

Jan. 9, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 7
Kp
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
2o 2+ 3- 2+ 2o 2o 1- 1+
ϕ = 56° 1400-1500(HV1); ϕ=55° 1600-1700(HV2); ϕ = 59° 1700-1800 and 2000-2100(HB1); ϕ = 59° 1900(R;R1)
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Rz: 37
10cm flux: 83
Flare: 11/19.5
Ca: No Obs.
Ip: 0
Ia: 2
13411 N13 (2)

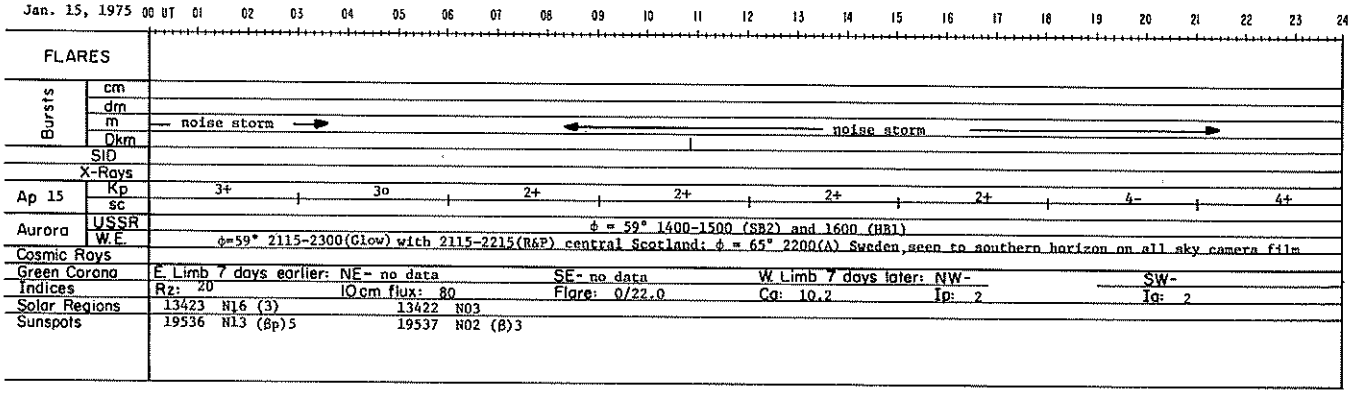

Jan. 10, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 6Q
Kp
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
2- 1o 2+ 3o 2- 0+ 0+ 1+
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Rz: 31
10cm flux: 83
Flare: 3/23.0
Ca: No Obs.
Ip: 0
Ia: 2

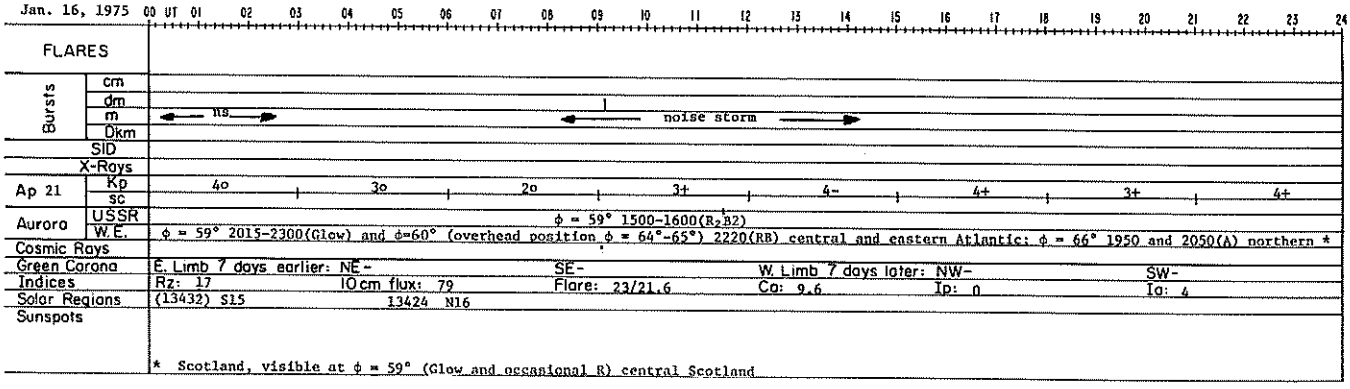

Jan. 11, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 4QQ
Kp
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
2o 1+ 1o 1o 1- 1- 0+ 2-
decrease normal 1200
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Rz: 30
10cm flux: 84
Flare: 0/24.0
Ca: 8.5
Ip: 0
Ia: 2
(13428) N13
(13415) N13
13419 N20
(13431) N08

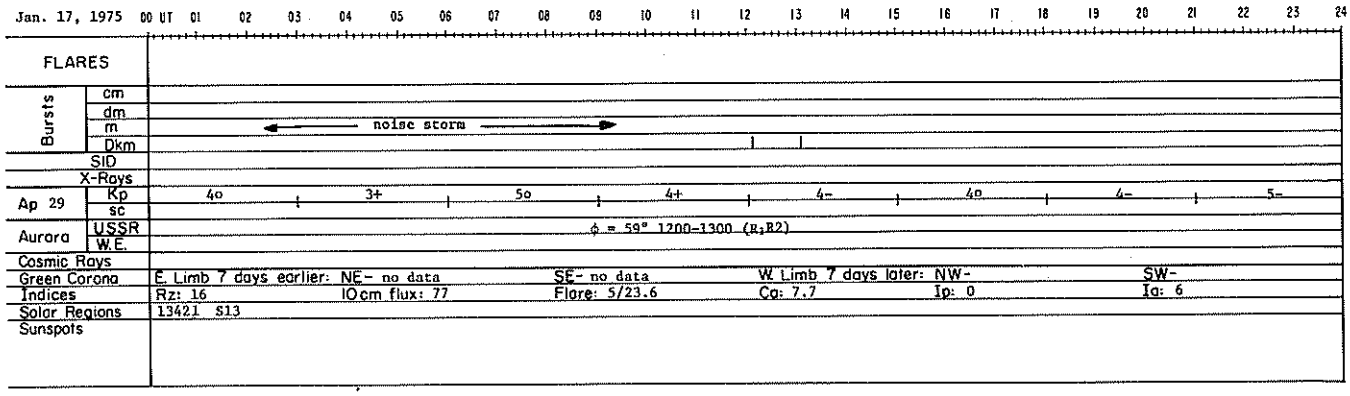

Jan. 12, 1975
00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 4QQ
Kp
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
noise storm
2o 0+ 0+ 1- 0+ 0+ 2+ 2o
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW- no data
SW- no data
Rz: 31
10cm flux: 85
Flare: 21/23.0
Ca: 8.7
Ip: 0
Ia: 0
13420 S26
(13435) N38
(13425) S07
(19535) S26(B)2

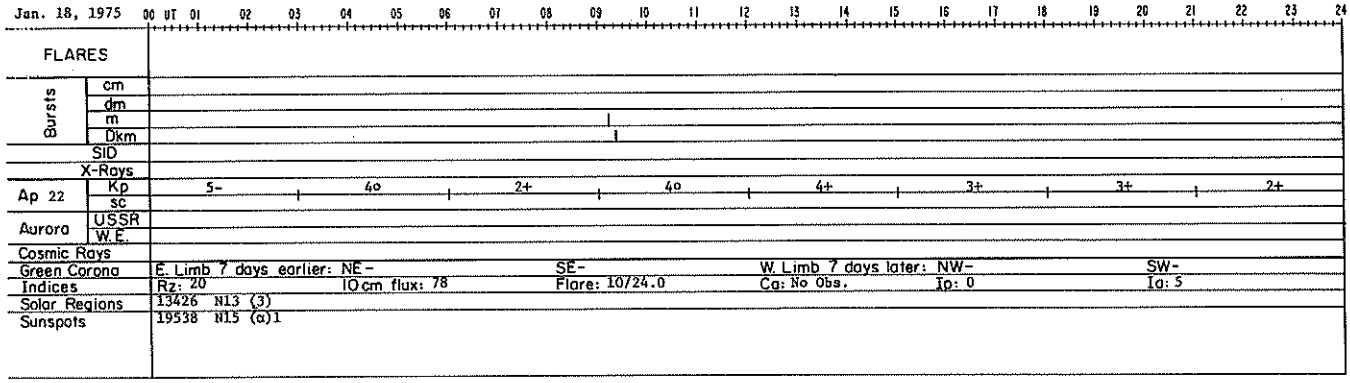

Jan. 13, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 32D
Kp
sc
4+ 5o 4o 4- 4o 4o 5- 4+
Aurora
USSR
W.E.
φ = 57° 1000-1100 and 1300-1500(RA2); φ = 59° 1200-1300(HB1) & 1400-1600(SA1); φ = 56° 1900-2000(HB2)
φ = 59° 0150 (R) central Scotland; φ = 60° 0250 (Glow) eastern 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: 32 10.7cm flux: 83 Flare: 7/21.4 Ca: 9.8 Ip: 0 Ig: 2
Solar Regions
(13416) S12 (2) (13429) S23 13430 N15
Sunspots

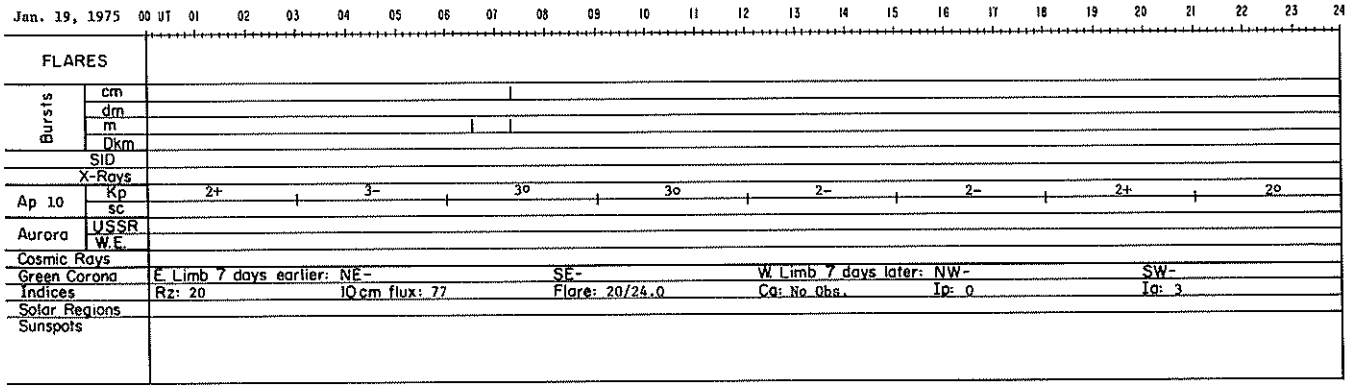

Jan. 14, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
ns
SID
X-Rays
Ap 33D
Kp
sc
4o 5o 4- 4- 5o 4+ 5- 4o
Aurora
USSR
W.E.
φ = 59° 1200-1900(HB1-3) and 2300-2400 (HA2); φ = 56° 1900-2000(SP1)
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices
Rz: 11 10.7cm flux: 80 Flare: 35/22.7 Ca: 8.8 Ip: 0 Ig: 5
Solar Regions
(13433) N30 (13436) N05
Sunspots

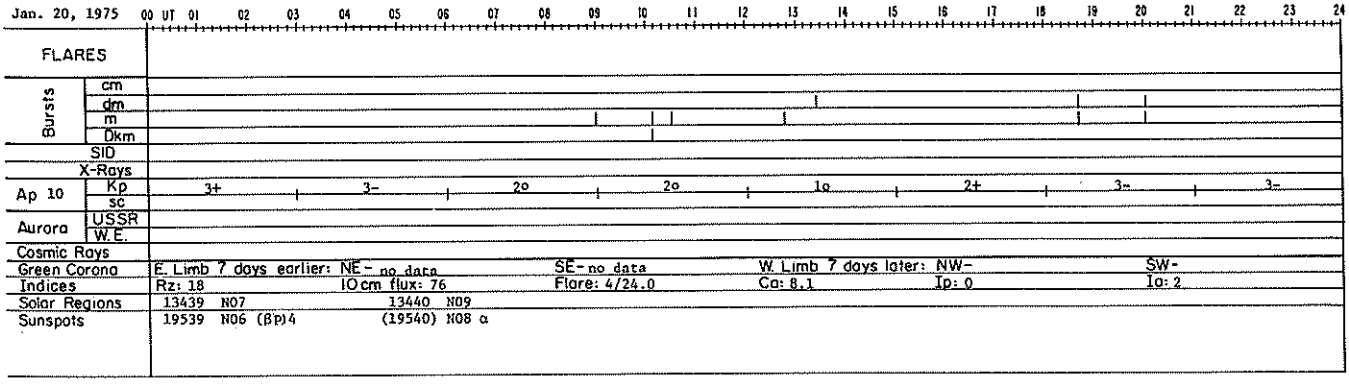

Jan. 15, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
noise storm
SID
X-Rays
Ap 15
Kp
sc
3+ 3o 2+ 2+ 2+ 2+ 4- 4+
Aurora
USSR
W.E.
φ = 59° 1400-1500 (SB2) and 1600 (HB1)
φ=59° 2115-2300(Glow) with 2115-2215(R&P) central Scotland; φ = 65° 2200(A) Sweden,seen to southern horizon on all sky camera film
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices
Rz: 20 10.7cm flux: 80 Flare: 0/22.0 Ca: 10.2 Ip: 2 Ig: 2
Solar Regions
13423 N16 (3) 13422 N03
Sunspots
19536 N13 (βp)5 19537 N02 (β)3


Jan. 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
ns
noise storm
SID
X-Rays
Ap 21
Kp
sc
4o 3o 2o 3+ 4- 4+ 3+ 4+
Aurora
USSR
W.E.
φ = 59° 1500-1600(R2 B2)
φ = 59° 2015-2300(Glow) and φ=60° (overhead position φ = 64°-65°) 2220(RB) central and eastern Atlantic; φ = 66° 1950 and 2050(A) northern *
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices
Rz: 17 10.7cm flux: 79 Flare: 23/21.6 Ca: 9.6 Ip: 0 Ig: 4
Solar Regions
(13432) S15 13424 N16
Sunspots
* Scotland, visible at φ = 59° (Glow and occasional R) central Scotland


Jan. 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
dm
m
Dkm
noise storm
SID
X-Rays
Ap 29
Kp
4o 3+ 5o 4+ 4- 4o 4- 5-
sc
Aurora
USSR
φ = 59° 1200-1300 (R1R2)
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: 16 10cm flux: 77 Flare: 5/23.6 Ca: 7.7 Ip: 0 Ia: 6
Solar Regions
13421 S13
Sunspots


Jan. 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
dm
m
Dkm
SID
X-Rays
Ap 22
Kp
5- 4o 2+ 4o 4+ 3+ 3+ 2+
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: 20 10cm flux: 78 Flare: 10/24.0 Ca: No Obs. Ip: 0 Ia: 5
Solar Regions
13426 N13 (3)
Sunspots
19538 N15 (α)1


Jan. 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
dm
m
Dkm
SID
X-Rays
Ap 10
Kp
2+ 3- 3o 3o 2- 2- 2+ 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: 20 10cm flux: 77 Flare: 20/24.0 Ca: No Obs. Ip: 0 Ia: 3
Solar Regions
Sunspots


Jan. 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
dm
m
Dkm
SID
X-Rays
Ap 10
Kp
3+ 3- 2o 2o 1o 2+ 3- 3-
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: 18 10cm flux: 76 Flare: 4/24.0 Ca: 8.1 Ip: 0 Ia: 2
Solar Regions
13439 N07 13440 N09
Sunspots
19539 N06 (βp)4 (19540) N08 α

Jan. 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 6Q	Kp	2o 1o 1- 1+ 2o 3- 2+ 1-
	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: 16 10cm flux: 77 Flare: 5/23.0 Ca: 7.6 Ip: - Ig: 2
Solar Regions		(13437) S22 (13446) S19 (13447) N33
Sunspots		

Jan. 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 8Q	Kp	1- 1o 1+ 0+ 1+ 3o 3- 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: 16 10cm flux: 76 Flare: 2/22.9 Ca: No Obs. Ip: - Ig: 4
Solar Regions		13434 N15 (2) 13441 N05
Sunspots		19541 N05 β

Jan. 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 12	Kp	3o 2o 2o 2- 3o 3- 4- 2+
	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: 15 10cm flux: 75 Flare: 0/21.3 Ca: 4.2 Ip: 1 Ig: 2
Solar Regions		(13448) N33 (13444) S05 (13450) S10 13438 N08 (2)
Sunspots		(19544) N05 ap CMP Jan. 24

Jan. 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	
	m	
	Dkm	
SID		
X-Rays		
Ap 10	Kp	3o 3o 1+ 3+ 2- 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: 7 10cm flux: 73 Flare: 8/20.4 Ca: 3.5 Ip: - Ig: 2
Solar Regions		
Sunspots		

Jan. 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 5QQ	Kp	1- 1- 0+ 1o 1- 3o 2o 1o
	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: 7 10cm flux: 72 Flare: 0/21.8 Ca: No obs. Ip: - Ia: 3
Solar Regions		(13451) N07 (13457) S23 (13452) S18 (13449) N48
Sunspots		

Jan. 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 5QQ	Kp	3+ 1o 1- 0+ 1o 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: 7 10cm flux: 73 Flare: 0/23.0 Ca: 3.7 Ip: 0 Ia: 0
Solar Regions		
Sunspots		

Jan. 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 14	Kp	1- 3- 3- 4- 3- 3+ 4- 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: 0 10cm flux: 72 Flare: 0/21.4 Ca: 2.5 Ip: - Ia: 2
Solar Regions		13445 N04 (2) (13454) N23
Sunspots		(19543) N04 (βp 3 CMP Jan. 26

Jan. 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	5- 3+ 3- 2o 2o 1o 2o 2-
	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: 7 10cm flux: 73 Flare: 0/22.8 Ca: 1.9 Ip: - Ia: 2
Solar Regions		13443 S10 (13458) N06
Sunspots		(19542) S03 αp

Jan. 29, 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 60	Kp	2- | 2+ | 1+ | 2o | 2+ | 1+ | 1+ | 1o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW- no data 245°-255°
Indices		Rz: 7 10cm flux: 73 Flare: 0/18.7 Ca: No Obs. Ip: 0 Ia: 0
Solar Regions		(13455) N23 (13456) N19 (13462) N35 (13467) S16
Sunspots		

Jan. 30, 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 70	Kp	2- | 1+ | 2- | 2+ | 1- | 1o | 2+ | 3o
	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: 7 10cm flux: 73 Flare: 0/23.5 Ca: 1.6 Ip: 1 Ia: 2
Solar Regions		
Sunspots		

Jan. 31, 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 16	Kp	2+ | 1+ | 1+ | 3+ | 2+ | 4+ | 4o | 4o
	sc	
Aurora	USSR	
	W.E.	ϕ = 60° 1950-2100(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: 72 Flare: 0/23.9 Ca: 1.7 Ip: 0 Ia: 2
Solar Regions		
Sunspots		

REGIONAL FLARE INDEX

INCLUDES ALL FLARES

JANUARY 1975

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13400	S 9	75/01/04.2	74/12/29	75/01/06	11.71	1.30	9
13414	N 9	75/01/04.4	75/01/06	75/01/10	6.91	1.38	3
13409	N 6	75/01/07.8	75/01/01	75/01/12	47.08	3.92	11
13411	N12	75/01/09.0	75/01/05	75/01/06	5.70	2.85	3
13423	N16	75/01/15.1	75/01/09	75/01/19	32.90	2.39	13
13422	N 4	75/01/15.8	75/01/12	75/01/19	71.56	8.95	14
--	N16	75/01/16.7	75/01/22	75/01/22	1.18	1.18	3
13421	S12	75/01/17.0	75/01/10	75/01/10	0.43	0.43	1
13439	N 7	75/01/20.1	75/01/18	75/01/24	22.75	3.25	7
13438	N 9	75/01/23.9	75/01/21	75/01/21	5.44	5.44	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.

MISCELLANEOUS DATA

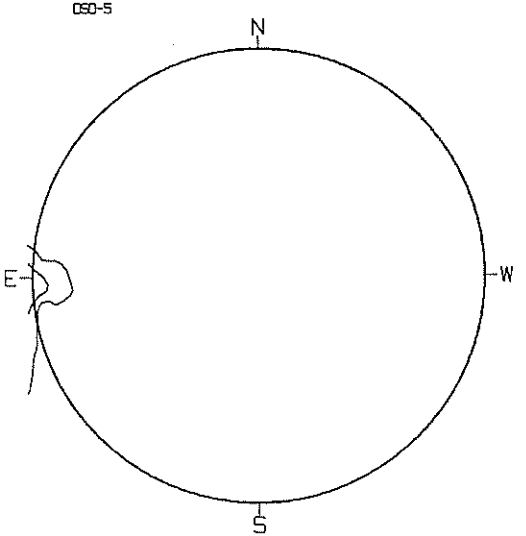
Contents

Note: OBSERVATIONS IN MARCH AT 25/0250-0343 UT, 27/0125-0231 UT, 28/0229-0340 UT and 29/0100-0200 UT SHOW NO ACTIVITY.

26 APRIL 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



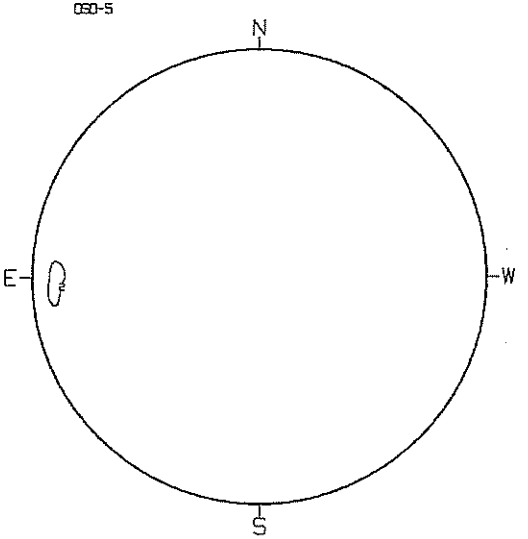
RES = 2 ARC MIN
UNIT = 10^{-6}ERG/CM^2/SEC

0100-0246 UT

27 APRIL 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



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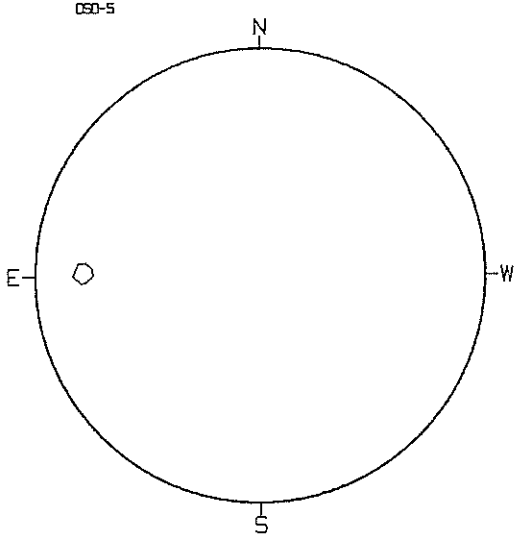
UNIT = 10^{-6}ERG/CM^2/SEC

0105-0143 UT

28 APRIL 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



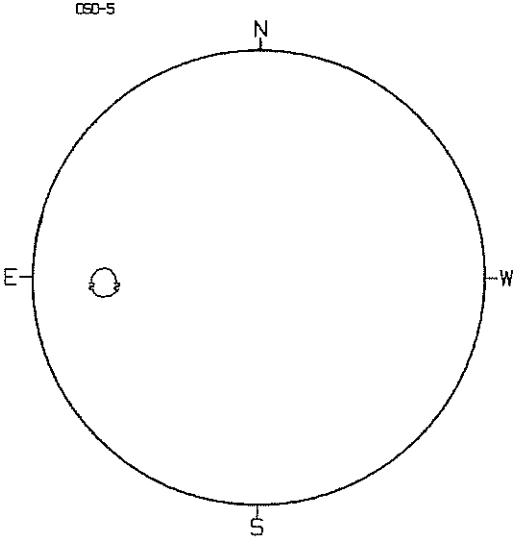
RES = 2 ARC MIN
UNIT = 10^{-6}ERG/CM^2/SEC

0522-0658 UT

29 APRIL 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



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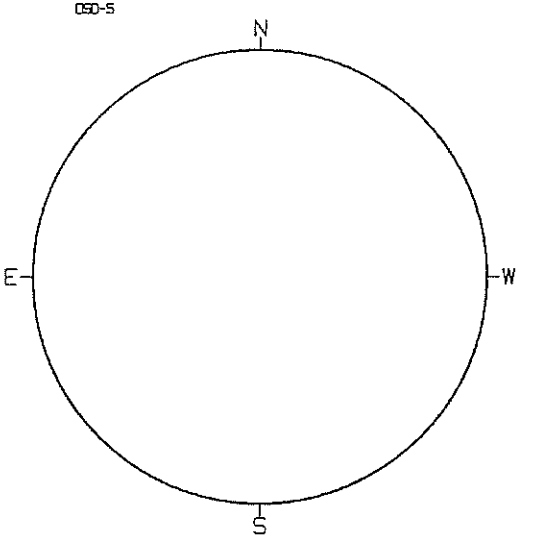
0054-0208 UT

30 APRIL 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
OSO-5

9·6-11·1Å X-RAYS



RES = 2 ARC MIN
UNIT = 10^{-6}ERG/CM^2/SEC

0035-0157 UT

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

MAY 1975

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT) (Units-Gammas)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-1	0	1	4	5	4	12	17	14	8	10	9	3	3	2	-2	-3	-3	-5	-9	-5	-4	2	6
2	10	7	10	9	0	-5	1	-1	-3	-13	-15	-11	-14	-16	-22	-25	-25	-23	-28	-27	-24	-21	-16	-20
3	-22	-18	-19	-25	-32	-30	-31	-31	-23	-18	-15	-15	-13	-21	-27	-23	-18	-17	-20	-21	-19	-17	-12	-14
4	-13	-14	-9	-8	-7	-11	-13	-12	-7	-6	-11	-13	-14	-12	-11	-10	-10	-9	-12	-14	-14	-17	-24	-31
5	-36	-36	-33	-35	-38	-32	-23	-27	-19	-19	-20	-19	-18	-14	-16	-15	-12	-16	-18	-25	-29	-23	-18	-16
6	-23	-29	-29	-38	-50	-42	-37	-37	-40	-38	-34	-34	-37	-36	-37	-35	-31	-34	-36	-33	-31	-35	-23	-20
7	-21	-21	-22	-21	-20	-16	-11	-13	-11	-6	-7	-19	-26	-25	-23	-28	-32	-28	-22	-21	-21	-24	-25	-21
8	-18	-18	-16	-15	-17	-21	-19	-17	-18	-16	-11	-11	-9	-11	-14	-15	-12	-13	-17	-23	-21	-21	-25	-15
9	-13	-14	-19	-24	-24	-24	-22	-26	-21	-18	-22	-18	-15	-18	-23	-21	-17	-18	-19	-15	-15	-16	-16	-21
10	-23	-18	-22	-36	-42	-41	-41	-35	-29	-31	-26	-27	-26	-27	-26	-28	-26	-26	-26	-27	-23	-27	-22	-18
11	-14	-14	-15	-15	-16	-15	-16	-14	-11	-12	-13	-15	-17	-16	-14	-13	-12	-13	-13	-15	-15	-17	-17	-16
12	-16	-14	-13	-13	-12	-12	-10	-8	-5	-3	-5	-5	-3	0	5	6	5	5	6	3	3	3	4	5
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14	-14	-15	-18	-19	-24	-24	-24	-24	-23	-23	-24	-28	-28	-26	-24	-24	-25	-27	-30	-29	-26	-26	-23	-21
15	-17	-18	-16	-16	-15	-15	-12	-10	-7	-5	-6	-6	-7	-10	-13	-13	-13	-13	-11	-8	-5	-4	-3	-3
16	-3	0	4	19	22	15	9	-10	-21	-15	-10	-4	-9	-10	-8	-8	-14	-14	-14	-9	-12	-8	-15	-10
17	-9	-8	-9	-11	-15	-20	-19	-16	-17	-15	-15	-13	-11	-12	-11	-9	-13	-12	-9	-5	-3	-3	-5	-9
18	-9	-12	-13	-13	-14	-15	-17	-13	-11	-7	-8	-8	-9	-8	-9	-9	-10	-10	-10	-6	0	0	0	0
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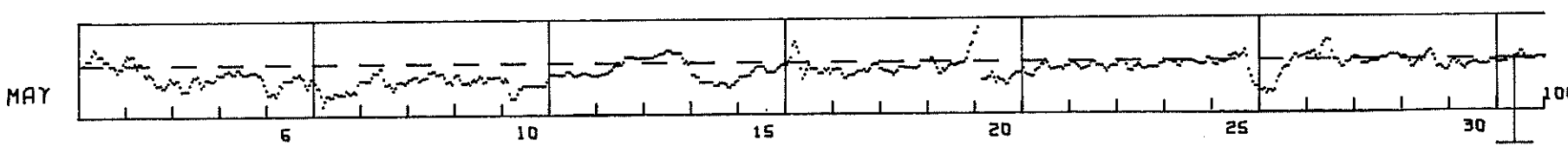
27	6	3	7	8	2	-3	4	14	18	21	22	19	6	-3	-3	-4	-7	-11	-9	-5	-5	-3	0	2
28	0	-1	-2	-7	-6	-7	-6	-4	-3	-5	-5	-3	-1	1	0	1	2	4	3	4	3	3	1	-1
29	2	1	-2	-5	-11	-10	-7	-4	0	-5	-1	2	5	8	7	1	-4	-12	-9	-10	-13	-15	-14	-11
30	-6	-3	-4	-8	-5	-10	-12	-14	-9	-7	-6	-5	-5	-5	-8	-9	-8	-8	-8	-5	-3	-3	-4	-6
31	-7	-5	-5	-4	-4	-1	-3	-1	1	2	3	6	5	2	-3	-4	-2	-2	-2	0	1	1	0	-2



Note: Beginning May 1975, new representations were adopted for the secular changes for the observatories used in deriving the Dst index to take into account the marked deviations in the secular change from the extrapolated values. This resulted in an apparent sudden change in the zero level of the provisional Dst index between the end of April (already published) and the beginning of May. We plan to issue tables and plots of revised provisional Dst for the past several months that do not contain such an artificial sudden change in the reference level.

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WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS

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