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Solar - Geophysical Data

NO. 374 OCTOBER 1975

Part II (Comprehensive Reports)

DATA FOR
APRIL 1975
MARCH 1975
& MISCELLANEA

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

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80302.

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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

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No. 374

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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362A 32 listed under 1974 Aug shows that data for August 1974 were contained in Solar-Geophysical Data Number 362 - Part I beginning on page 32.

APRIL 1975 DATA

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Apr 75

H α SOLAR FLARES

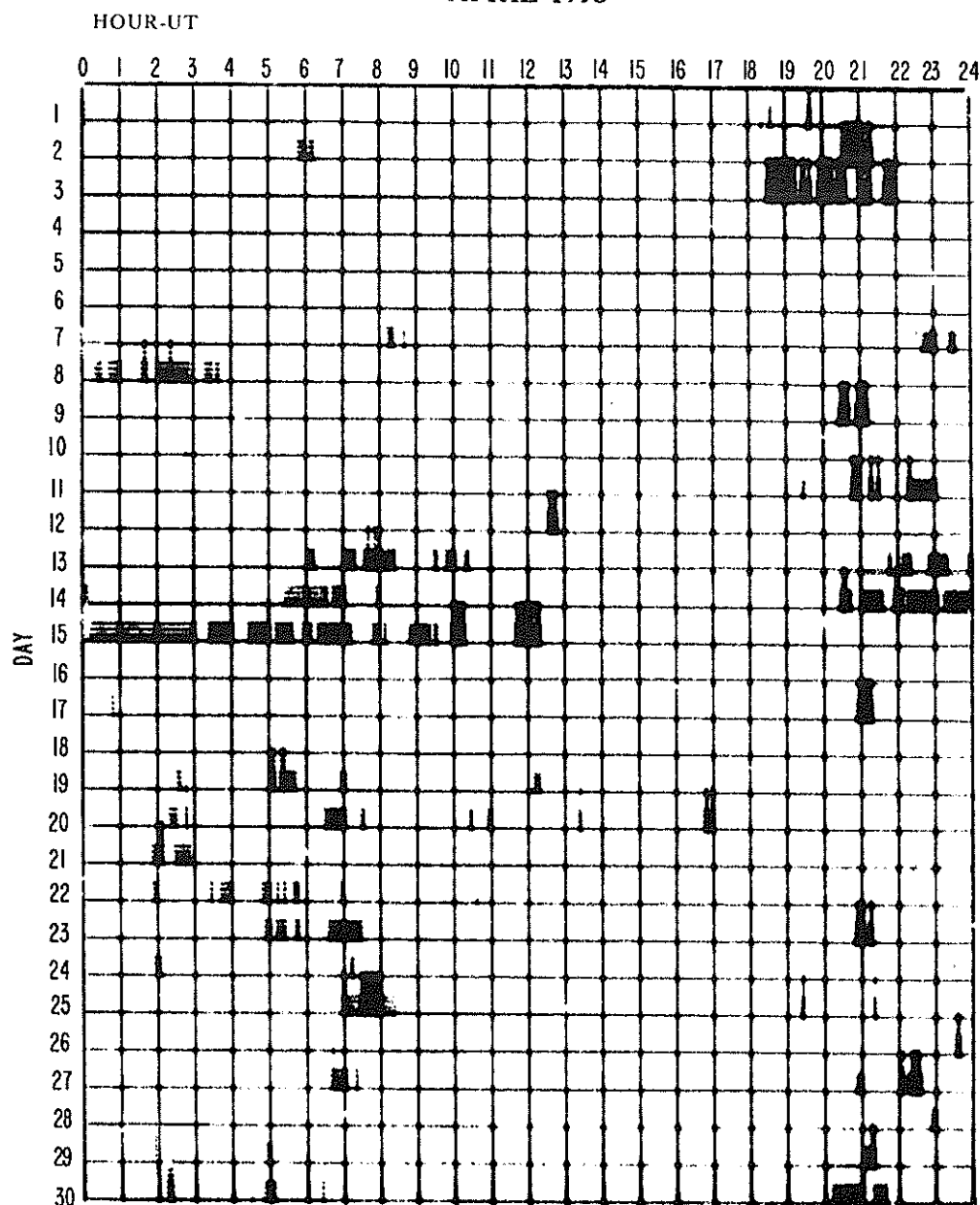
APRIL 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA MIL of Disk	CORR. AREA Sq. Deg.	
					LAT.	MER. DIST.											
MCMA	05	2213	2215	2223	N08	E77	.979	13576	11.7	10	SF		C	2215			D
ABST KHAR CATA	06	1033	1037	1048	N09	E70	.943		11.7	15	1F		C	1037	87		OGJ
	06	1037	1037	1043	N03	E69	.937		11.6	6	1F						D
	06	1050	1050	1055	N08	E68	.936		11.6	5	SF	3		1050	56		
ABST	08	0519	0520	0540	N08	E44	.722		11.5	21	SF		C	0520	50	.7	D
PALE PALE	09	2358E	0003	0014	N 2	W 3	.157		9.8	160	SF	2	C		45		
	09	2358E	0003	0014	N 2	W 3	.157		9.8	160	SF	2	V		45		
MANI MANI ABST	10	0004	0023	0035	N03	W03	.174		9.8	31	SN			0023	50	.5	
	10	0004	0007	0035	N03	W03	.174		9.8	31	SF		C	0007	40	.4	F
	10	0504	0506	0510	N02	W07	.192		9.7	6	SF		C	0506	50	.5	D
HUAN	17	2018	2021	2031	S03	E76	.969		23.5	13	SF	1	C	2021	25		
HTPR	23	0750	0802	0803	N10	E72	.960		28.7	13	SF		C	0802	20	.4	
HTPR	23	1250	1252	1304	N08	W03	.265		23.3	14	SF		C	1252	20	.2	E
HTPR	24	1245	1247	1257	N10	E42	.710		27.7	12	SN		C	1247	30	.4	
HTPR	24	1333	1336	1340	S05	E12	.210		25.5	7	SF		C	1336	30	.3	E
HTPR	26	1159	1203	1208	N01	E87	.999		5.0	9	SF		C	1204	20		
HTPR	26	1400	1400	1403	N01	E86	.998		5.0	3	SF		C	1400	20		
PAMY MEUD	27	1107	1112	1118	N 4	E69	.938		4.6	11	SF	3	C		22		OE
	27	1110	1113	1117	N02	E68	.930		4.6	7	SN		C	1113	50		D
HTPR	29	1653		17070	N10	W70	.950		24.5	140	SF		C	1656	20		E
BOUL	29	1705	1712	1732	N 9	W69	.943		24.5	27	SF	2	P	1712	21	.6	
PALE	29	2051E	2053U	20560	S 1	E35	.580		4.5	50	SF	3	C		70		F
PALE	29	2052E	2053U	2059	N 2	E33	.562		4.3	70	SF	3	V		80		F
VORO	29	2255	2259	2307	N03	E33	.566		4.4	12	S8		C	2259	108	1.3	EGJ
MANI	29	2258E	2303	23090	N01	E33	.558		4.4	110	SN		V	2303	60	.8	
PALE	29	2301E	2306U	2313	S 1	E34	.566		4.5	120	SF	3	C		61		U
PALE	29	2301E	2306U	2313	N 2	E33	.562		4.4	120	SF	3	V		80		U
HTPR	30	0917	0919	0923	N10	W78	.983		24.5	6	SF		C	0919	20		
PALE	30	1956E	19573	2000	S10	E60	.860		7.3	40	SF	3	V		15		

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.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

APRIL 1975



Observatories included in total patrol:

Abastumani	Catania	Hurbanovo	Lvov	Monte Mario	Upice
Arcetri	Culgoora	Kharkov.	Manila	Palehua	Voroshilov
Athens	Haute Provence	Kiev	McMath-Hulbert	Ramey	Wendelstein
Souder	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).

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Apr 75

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES APRIL 1975

APR 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
1	260 ONDR	40 F	0920	0956.3	62	10	2		
2	3100 CRIM	24 R	0656	0909		2			
3	260 ONDR	2 S/F	0936.3	0937.4	2.5	5	1		UNCERTN UNCERTN UNCERTN
	127 TORN	5 S	0938.5	0938.7	0.6				
	127 TORN	5 S	0954.8	0955	1	20	10		
	127 TORN	45 C	1017.7	1018.8	3	90	30		
	260 ONDR	45 C	1140.5	1143.9	6	10	3.3		
	260 ONDR	45 C	1148.3	1150	2.5	25	3.2		
	536 ONDR	45 C	1330.5	1330.7	3	8	1.2		
	260 ONDR	45 C	1330.5	1331.5	2.5	3	0.5		
7	18 MCMA	6	2100	2101	2			1	
9	3750 TYKH	5 S	0325	0325.2	1	3	1		OL
	9400 TYKH	5 S	0524.5	0525.3	2.5	5	2		OL
	2700 PENN	45	1947.7	1947.8	1.4	3.5	1		
10	127 TORN	5 S	1020	1020.2	1	25	8		UNCERTN
	18 MCMA	6	1606	1607	3			1	
11	260 ONDR	43 NS	0931		294	11			UNCERTN
	18 MCMA	6	2307	2308	1			1	
12	2700 PENN	1	1408.1	1410.6	8.6	3.5	0.7		
	18 MCMA	41	2302	2304	9			1	
14	2695 SGMR	20 GRF	1943	1953	25.3	3.9	2		
	245 SGMR	6 S	1948.2	1949.7	2.5	7.2	2.2		
	410 SGMR	.6 S	1949.3	1949.5	1.7	1.6	.8		
	606 SGMR	1 S	1950.1	1950.3	.4	8.8	2.6		
18	2695 BOUL	3 S	1939.5	1940.5	2.5	4	1		
	2695 BOUL	3 S	2031.5	2033	2	3	1		
21	127 TORN	7 C	1140	1140.2	0.9	4			UNCERTN
	245 SGMR	42 SER	1748.2	1803.7	17	142	28		
	410 SGMR	42 SER	1803.3	1803.5	.7	17.2	3.4		
	606 SGMR	41 F	1805.1	1812	14.7	3.9	.5		
	606 SGMR	41 F	1909.3	1931.2	54.7	13.2	2.6		
	245 SGMR	42 SER	1930.5	2000.8	38	16.9	3.4		
	245 SGMR	42 SER		2006.9		14.6			
	410 SGMR	42 SER	1931	2006.9	36.4	5.9	1.2		
22	127 TORN	40 F	1152 U	1206	20 U	10			UNCERTN
23	3100 CRIM	24 R	0647	0910		2			
	18 MCMA	6	1629	1632	3			1	
24	2695 BOUL	45 C	1614	1615	7	8	3		
	2695 BOUL	45 C	1656.5	1658	5.5	230	16		
25	3100 CRIM	24 R	0858	0932		3			
	260 ONDR	8 S	1041	1041	0.6	18			
	550 KIEV	41 F	1045.7	1046.8	1.6	10	3.1		
	260 ONDR	8 S	1132	1132	0.2	4			
	3100 CRIM	1 S	1159	1203	6	2	1		
	2695 BOUL	1 S	1737.5	1738	1	3	1		
26	3750 TYKH	5 S	0324.7	0325.1	1.5	3	1		OL
	2000 TYKH	5 S	0324.5	0325.2	1.5	1	0.3		OR
	1000 TYKH	5 S	0324.5	0325.2	1.5	0.3	0.1		OR
27	3100 CRIM	31 ABS	0827	0845	31	2	1		
	3100 CRIM	24 R	0900	1114		5			
28	2000 TYKH	5 S	0200	0210	30	0.6	0.3		OR
	1000 TYKH	45 C	0200	0205	35	2	0.7		OR
	9240 ARCE	3	0829.7	0831	4				
	3100 CRIM	1 S	0835	0841	19	2	1		
	3100 CRIM	20 GRF	0936	1010	134	2	1		
	9240 ARCE	2	1003.3	1003.5	2.5				
	3100 CRIM	1 S	1024	1031	8	1.5	1		
	3100 CRIM	31 ABS	1032	1040	13	1	0.5		
	3100 CRIM	1 S	1045	1048	6.5	3	1		
	3100 CRIM	29 PSI	1045						
	9240 ARCE	1	1051.3	1052	2				
	9240 ARCE	1	1054.4	1054.6	1.2				
	2695 BOUL	45 C	1759	1801.5	4.5	23	9		
30	260 ONDR	43 NS	1230		160 D	6			

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 = Huancaayo
IRKU = Irkutsk

IZHI = 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
TYKH = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

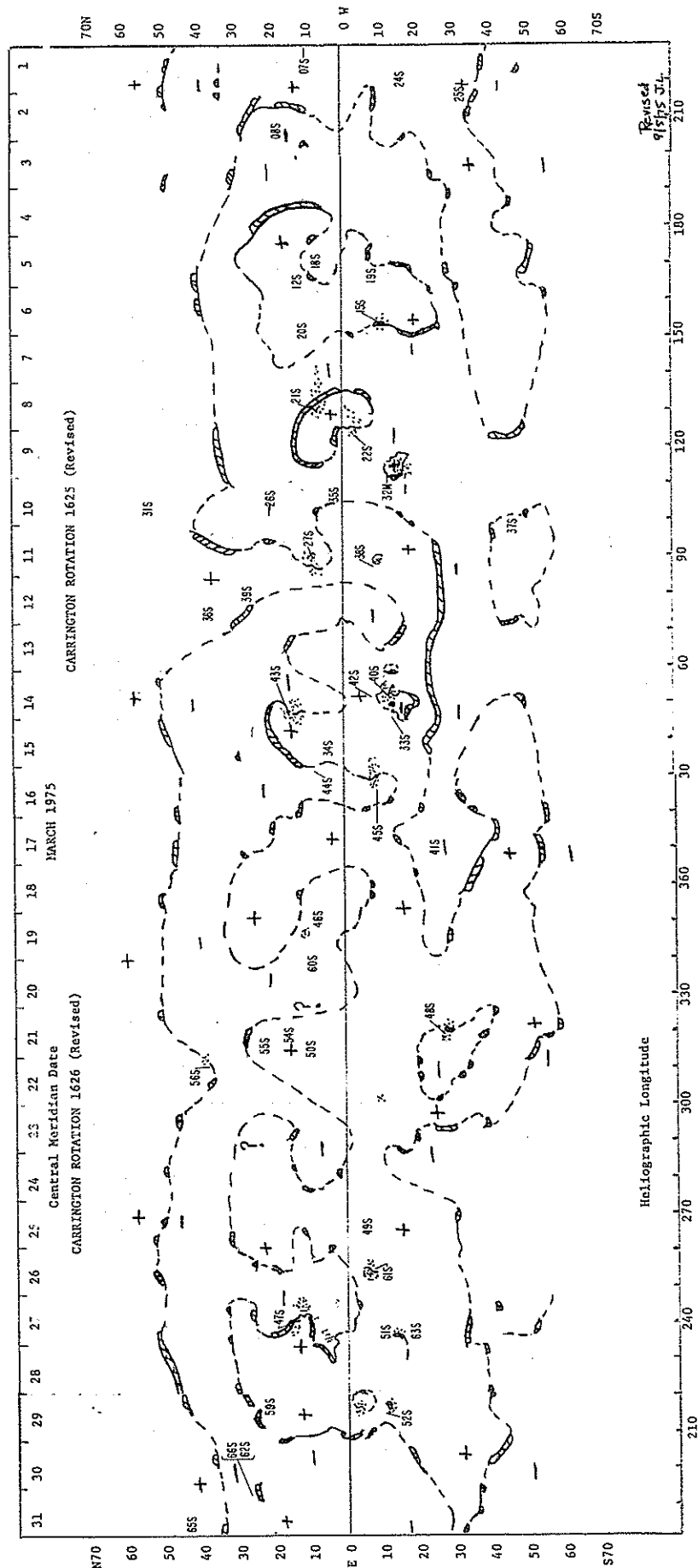
MARCH 1975 DATA

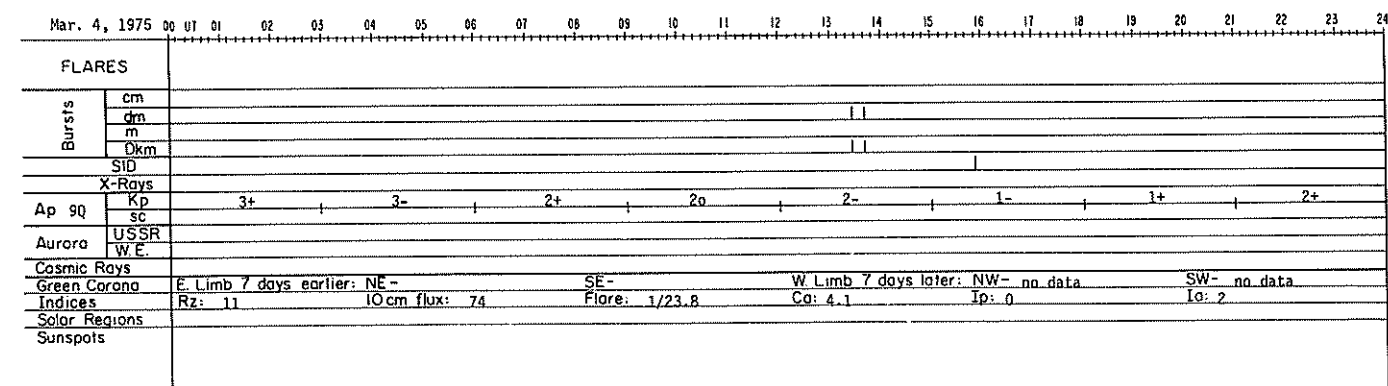
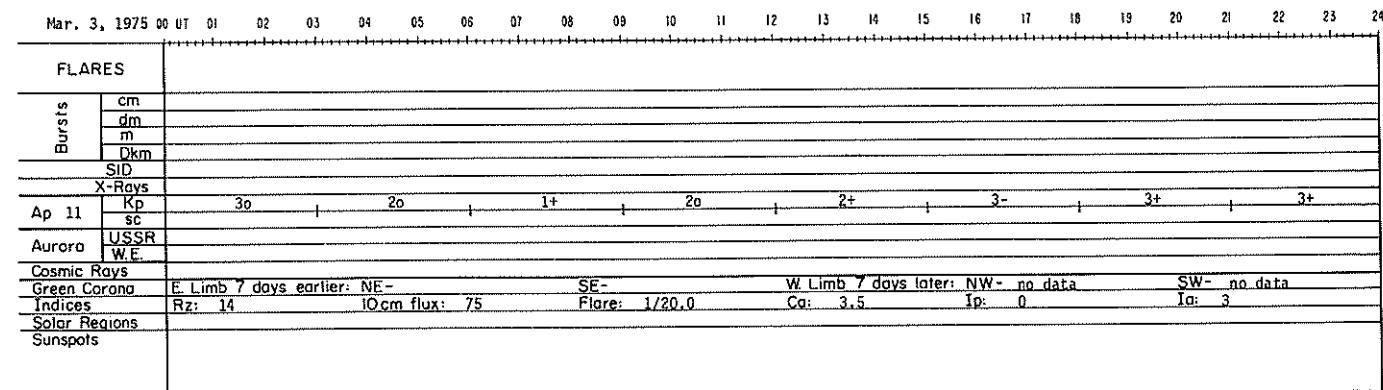
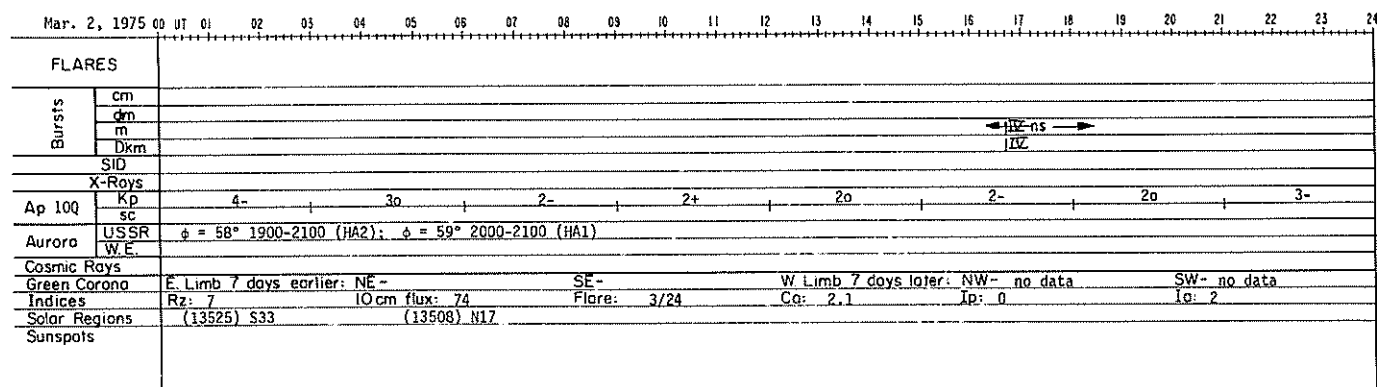
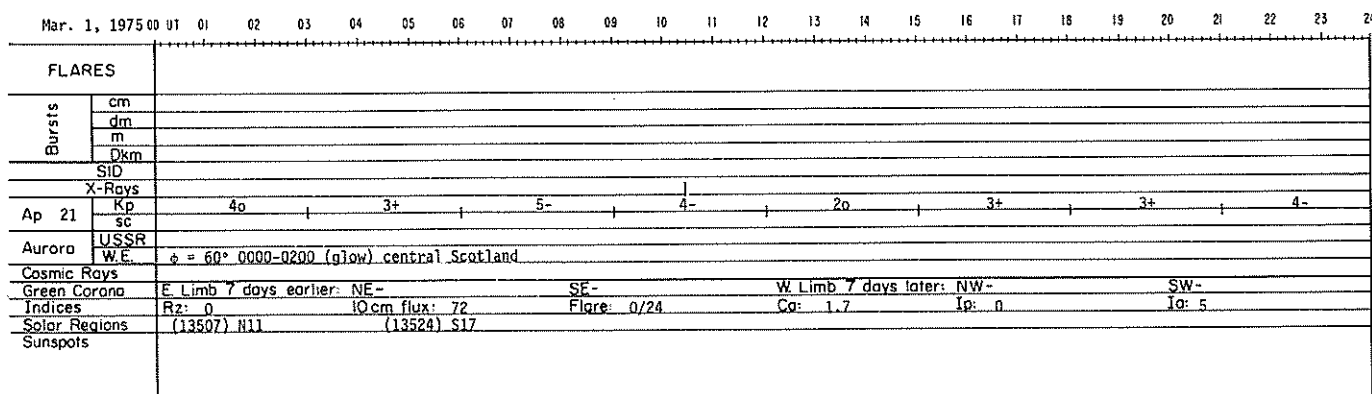
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ABBREVIATED CALENDAR RECORD

MARCH 1975





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Mar. 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
	dm
	m
	Dkm
SID	
X-Rays	
Ap 30	Kp 3+ 4o 4o 5o 5- 5- 4o 3+
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: 14 10cm flux: 72 Flare: 1/24 Co: 3.2 Ip: 0 Ia: 6
Solar Regions	(13518) N07 (13519) S08 (13512) N11
Sunspots	

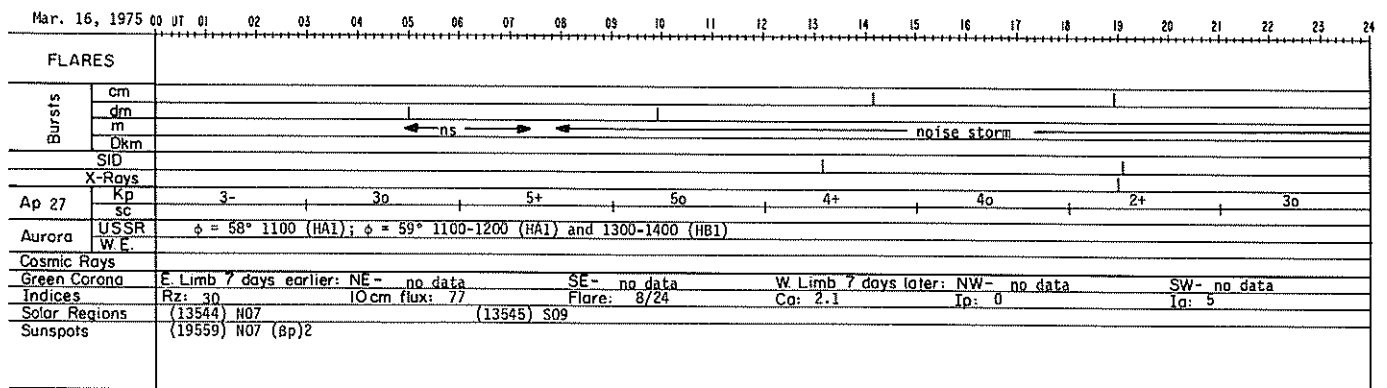
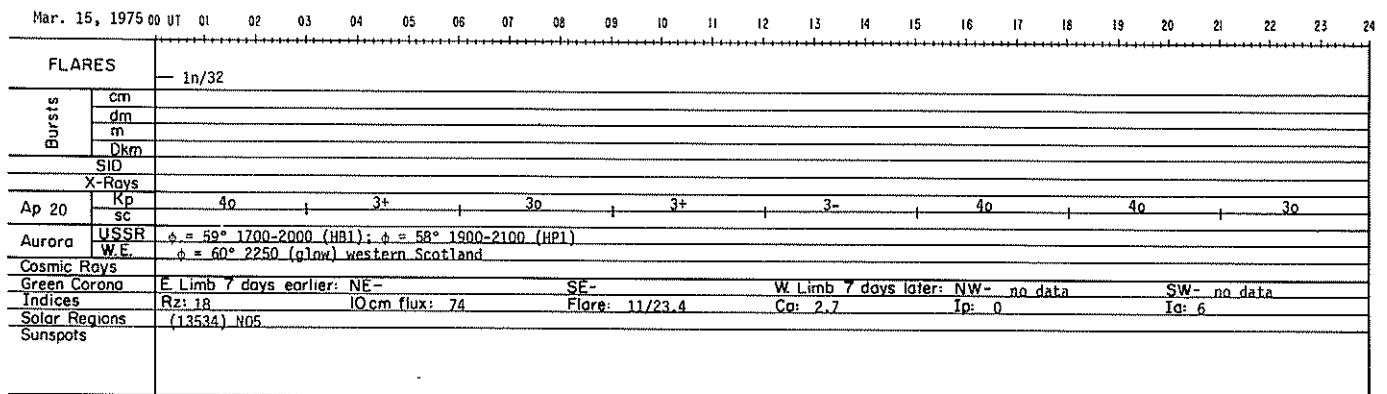
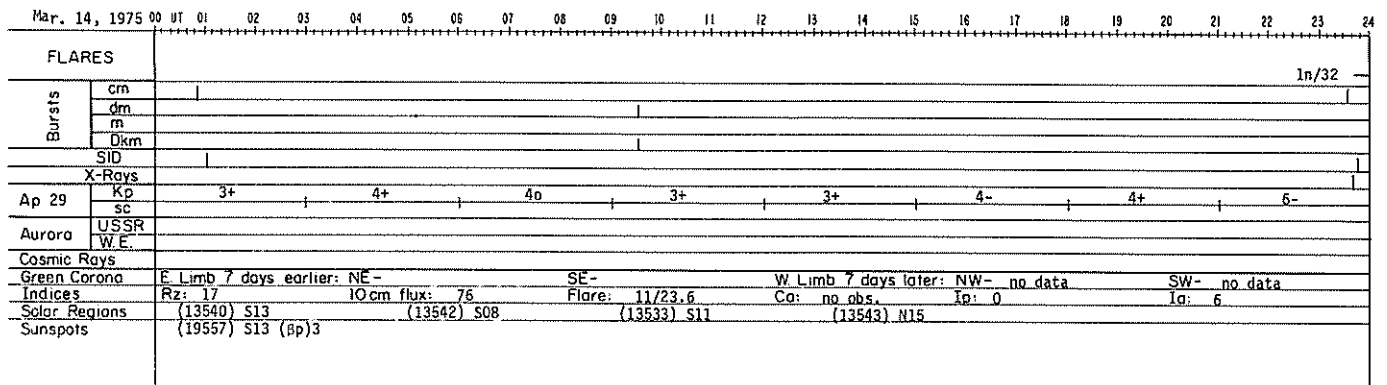
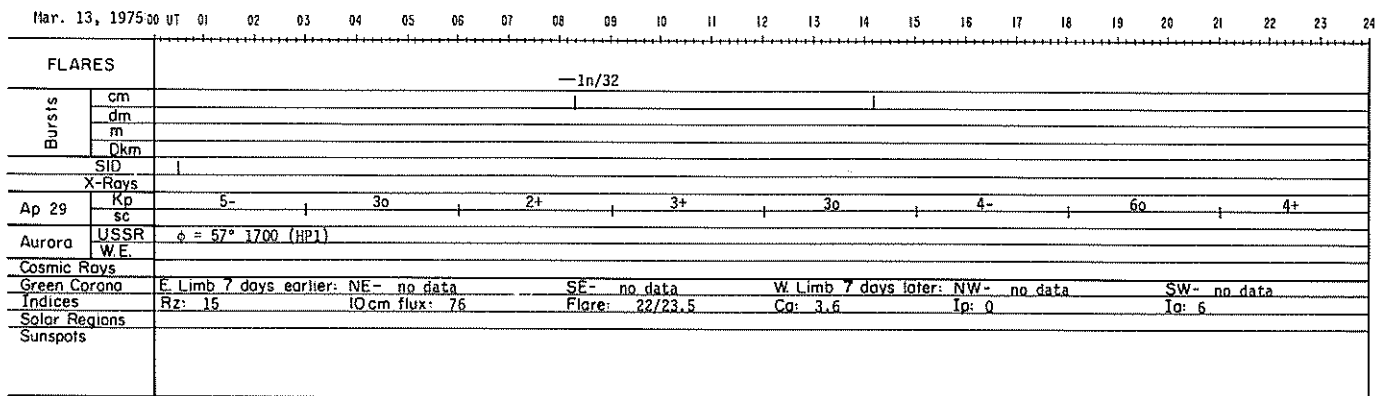
Mar. 6, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 20	Kp	2+ 3+ 4o 4- 3o 4+ 3+ 4-																									
	sc																										
Aurora	USSR W.E.	φ = 58° 1000-1100 and 1400 (HA2), 1500-1600 (R ₂ R ₂), and 1700-1800 (HA2)																									
Cosmic Rays		Cosmic Ray decrease 1600, 6% at 1000 (March 7) ←																									
Green Corona	E. Limb 7 days earlier: NE - SE - W Limb 7 days later: NW - no data SW - no data																										
Indices	Rz: 14 IO cm flux: 74 Flare: 1/24 Ca: no obs. Ip: 0 Ia: 6																										
Solar Regions	13515 S11 (2) (13520) N10																										
Sunspots																											

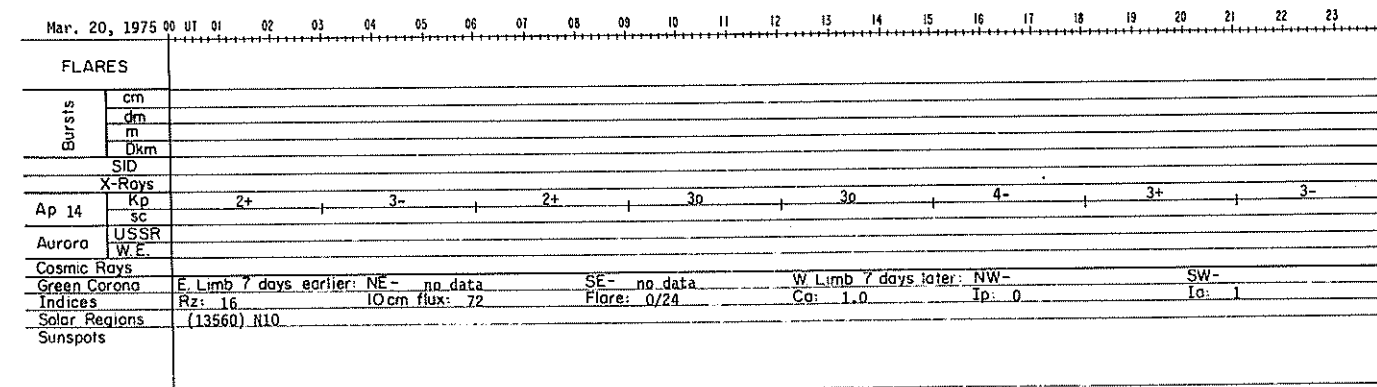
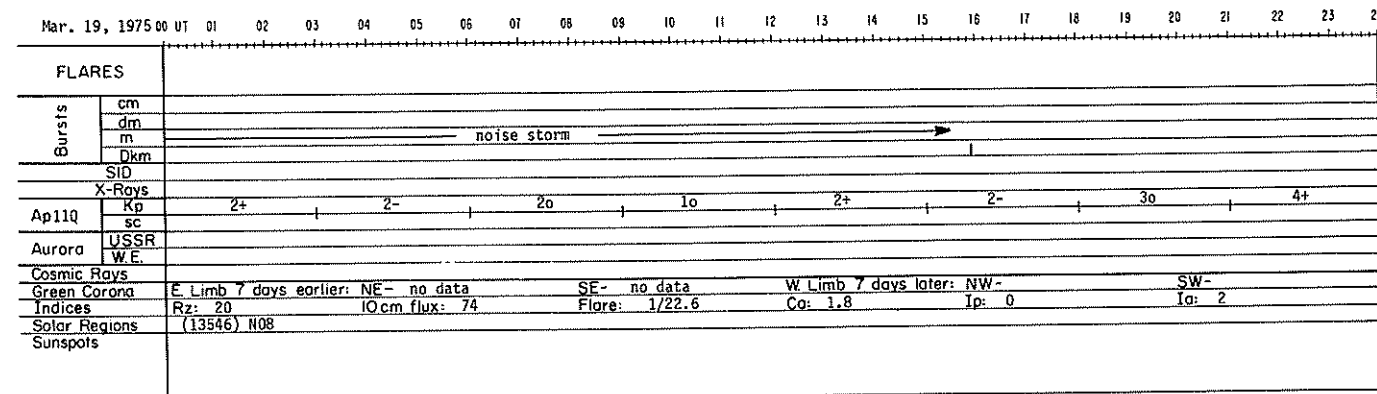
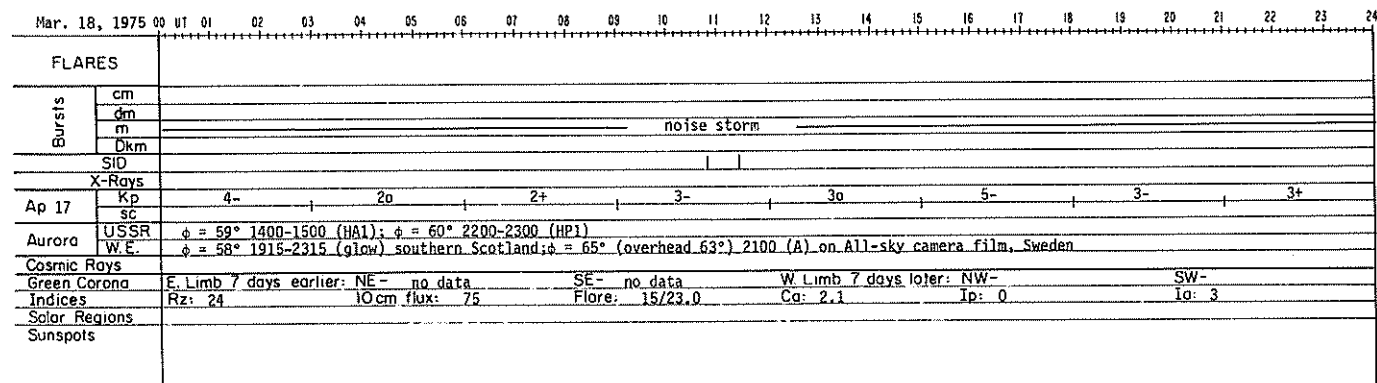
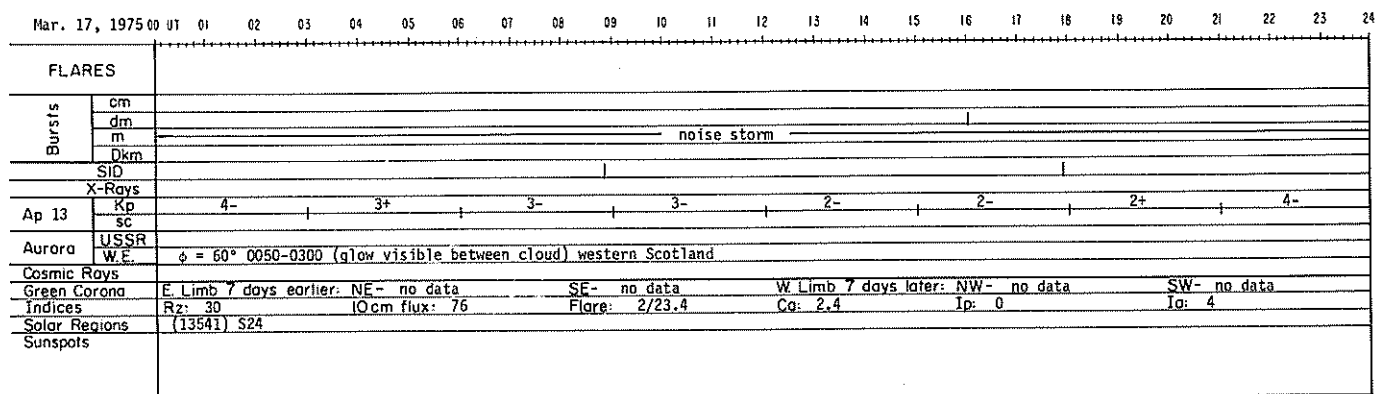
Mar. 7, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Okm																										
SID																											
X-Rays																											
Ap 3Q	Kp	1o 1o 0+ 1- 1- 1- 1- 1o																									
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays		6% at 1000 →																									
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: 0/24 Ca: no obs. Ip: 0 Ia: 2																									
Solar Regions																											
Sunspots																											

Mar. 8, 1975																											
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	0km																										
SID																											
X-Rays																											
Ap 2Q0	Kp	0+		0+			0+			0+			1-			0+			0+								
	sc																										
Aurora	USSR																										
	W E																										
Cosmic Rays																											
Green Corona																											
Indices																											
Solar Regions																											
Sunspots																											

FLARES											
Bursts	cm										
	dm										
	m										
	Dkm										
SID											
X-Rays											
Ap 37D	Kp	4+	5o	4o	4o	3+	4+	5+	5+		
	sc										
Aurora	USSR	$\phi = 59^{\circ}$ 1500-2100 (HAI); $\phi = 58^{\circ}$ 1800 (R,R1) and 1900-2000 (HP1)									
	W.E.	$\phi = 60^{\circ}$ (overhead 62° - 63°) 0000-0300 (glow) lost behind cloud after 0300 western Scotland; $\phi = 58^{\circ}$ 0000-0005 (glow) southern 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: 15	IOcm flux: 75				Flare: 43/24				Co: no obs. Ip: 0 Ig: 7	
Solar Regions	(13539) N27	(13536) N37									
Sunspots											
*Aurora W.E.	$\phi = 60^{\circ}$ 1950 (R glow) central Scotland and $\phi = 58^{\circ}$ 1950 (glow) southern Scotland.										
(continued)											

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Mar 75





14
Mar 75

Mar. 21, 1975 00 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																				
	0km																				
SID																					
X-Rays																					
Ap 300	Kp	2+		1o		1o		1+		0o		0o		0+		0+					
	sc																				
Aurora	USSR																				
	W.E.																				
Cosmic Rays																					
Green Corona																					
Indices	Rz: 9	IQ cm flux: 72				Flare: 7/22.5				Co: 0.3				Ip: 0				Ia: 1			
Solar Regions	(13548) S27	(13554) N16				(13555) N23				(13550) N10											
Sunspots																					

Mar 22, 1975 00 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																
	Okm																
SIO																	
X-Rays																	
Ap 6Q	Kp sc	0+		2-		2-		3-		1-		1+		1-		3-	
Aurora	USSR W.E.	φ = 60° 2350. (glow) central Scotland															
Cosmic Rays																	
Green Corona Indices	E. Limb 7 days earlier: NE - no data SE - no data W Limb 7 days later: NW - SW -																
Solar Regions	Rz: 0 IO cm flux: 70 Flare: 0/23.3 Ca: 0.8 Ip: 0 Ia: 3																
Sunspots	(13556) N37																

Mar. 23, 1975 00 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 13	Kp	4-		4o		4-		3-		2-		1-		1o		2o
	sc	2208(11) ▲														
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: 0	10 cm flux: 68				Flare: 2/23.7	Cg: 2.0				Ip: 0		Iq: 0			
Solar Regions																
Sunspots																

Mar. 24, 1975 00 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	2o	1o	1+	4o	4-	4o	3-	3-		
	sc										
Aurora	USSR	$\phi = 58^{\circ} 1500$ (HA1)									
	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: 0	10cm flux: 68	Flore: 0/24	Ca: 2.5	Ip: 0	Id: 0					
Solar Regions											
Sunspots											

Mar. 25, 1975 00 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 800	Kp	3-		2+		2-		1o		3-		2-		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: 0					10cm flux: 68					Flare: 0/22.4					Ca: 2.0 Ip: 0 Iq: 3				
Solar Regions		(13549) S05																			
Sunspots																					

Mar. 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 17	Kp	1a		3a		3a		4+		4-		3-		4-		3-			
Aurora	sc																		
	USSR																		
Aurora	WE																		
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: 13	10cm flux: 69				Flare: 6/24				Ca: 1.7				Ip: 0				Id: 2	
Solar Regions	13561 S07																		
Sunspots																			

Mar. 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 34D	Kp sc	3o	3-	2o	3-	4+	6+	6o	4-		
Aurora	USSR WE	φ = 59° 1100-1300 (SB1-2)									
Cosmic Rays											
Green Corana	E Limb 7 days earlier: NE- no data	SE- no data				W Limb 7 days later: NW-				SW-	
Indices	Rz: 7	10cm flux: 68				Flare: 0/24		Co: 1.3		Ip: 0	
Solar Regions	13547 N12 (2)	(13551) S10				(13563) S17					
Sunspots	N12										

Mar. 28, 1975 00 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 380	Kp	3o	4-	6o	5-	5o	4+	5-	4o		
	sc										
Aurora	USSR	$\phi = 59^{\circ}$ 1400-1500 (HA1-2)									
	W.E	$\phi = 58^{\circ}$ 1930-2305 (glow) southern Scotland; $\phi = 57^{\circ}$ 2000 and 2030 (glow) northern Wales									
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	10 cm flux: 68	Flare: 0/24	Ca: no obs.	Ip: 0	Ia: 6					
Solar Regions											
Sunspots											

Mar 75

Mar. 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																											
	dcm																											
	m																											
	Dcm																											
SID																												
X-Rays																												
Ap 22	Kp	3+			4+				4+				3+				3+				4+				3o			2+
	sc																											
Aurora	USSR																											
	W.E.	φ = 58° 1910 (glow) southern 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: 0 10cm flux: 69 Flare: 1/24 Cg: 1.3 Ip: 0 Ia: 6																										
Solar Regions		(13559) N22 (13552) S10																										
Sunspots																												

Mar. 30, 1975		00	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																										
	Okm																										
SID																											
X-Rays																											
Ap 10Q	Kp	3 ₀		2 ₊				2 ₀		2 ₊				3 ₋		2 ₋				2 ₀				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 - no data SW - no data																										
Indices	Rz: 7 IOcm flux: 69 Flare: 5/21.0 Ca: 1.6 Ip: 0 Ia: 5																										
Solar Regions																											
Sunspots																											

Mar. 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																										
	dcm																										
	m																										
	Qcm																										
SID																											
X-Rays																											
Ap 13	Kp	3+			3+				3-				2-				2+				3o			3+			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: 8 (13562) and 13566 N27 (13565) N44																									
Solar Regions		Flare: 1/23.0 Cq: 1.5 Ip: 0 Ia: 5																									
Sunspots																											

MISCELLANEOUS DATA

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SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE																																																			
	START UT	END UT		DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND																																																						
				START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT																																																				
01	0000	0735	CULG	0000	0450		0000	0701	2	0055	0059	3	IIIS																																																			
			CULG				0000	0700	2					0221.5	0222	2	IIIS																																															
			CULG				0055	0059	3									0224.5	0225	2	IIIG,V																																											
			CULG				0221.5	0222	2													0536.5	0542	3	IIIG,U																																							
			CULG				0224.5	0225	2																	IIIG,U																																						
			CULG				0314.5	0319	2																		IIIGG																																					
	CULG	0427.5	0429	3	IIIGG,V,U																																																											
	CULG	0536.5	0542	3		IIIGG,V																																																										
	CULG	2115	2224				IS,W																																																									
	CULG	2124	2355	1				IIIS																																																								
	CULG	2224.5	2226	3					2224.5	2226	2	IIIGG																																																				
	02	0000	0735	CULG									0319	0330	1	0000	0645		2250.5	2254.5	2	IIIS,W																																										
CULG				0144.5	0145.5											1	IIIG																																															
CULG				0254.5	0255	2										IIIG																																																
CULG							0358											0358.5					1	IIIGG																																								
CULG								0521.5																	0522	1	IIIG,U																																					
CULG									2117	2400	1	IIIG																																																				
CULG		2138	2243	1	IIIS																																																											
CULG						2250.5							2254.5	2	2250.5		2254.5		2	IS																																												
CULG																IIIGG,V																																																
03		0000	0721	CULG			0057.5											0058.5			1	0000	0656	1				0104.5	0105	2	IIIS																																	
				CULG				0057.5														0058.5	1	IIIG																																								
				CULG				0104.5	0105	2	0150	0158.5										3	0157.5		0158.5	2	IIIG,V																																					
	CULG			0106.5	0107			1	0357	0358																						2	0357	0358	2	IIIG																												
	CULG							0408.5						2	0408.5				2	IIIN,W																																												
	CULG			0158		2										0157.5																					0158.5	3	0157.5	0158.5	2	IIIG,V																						
	CULG			0209	0315	1																																					0357	0358	2	0357	0358	2	I															
	CULG																																																	0408.5		2	0408.5		2	IIIG,V								
	CULG			2124	2400																																																				2125.4	2127	2	2126.5	2127.5	1	IIIN,W	
	CULG	2126	2127	1	2127.5	2400	2											2126.5			2127.5							1	IIIG,V																																			
	CULG																							2247						2248.5	1																																	2248
	CULG										2321	2324										1	2322		2322.5	1	IIIG																																					
	CULG								2335.5																							1	2335.5			1																												
	04	0000	0736	CULG				0224.5					0227	1	0224.5		0227		1	0225																																												
				CULG												0230																					0453	1	0447.5	0453	1	IIIN,W																						
				CULG												0447.5																					0453						1	0447.5	0453	1	IIIGG																	
		2036	2400	CULG																																																												
				CULG																																																												
CULG																																																																
05	0000	0736	CULG																																																													
			CULG																																																													
06	0000	0737	CULG				0258.5	0259	1				IIIG																																																			
			CULG																																																													
07	0000	0737	CULG				0114.5		1				IIIB																																																			
			CULG				2135	2248					IIIN,W																																																			
08	0000	0725	CULG				0204	0642		2127.5	2129.5	2	IIIN,W																																																			
			CULG				0206	0207	2					IIIG																																																		
			CULG				0640		1						IIIB,U																																																	
			CULG				2127.5	2129.5	2							IIIG,V																																																
			CULG				2330	2331	1								IIIG																																															
			CULG				2359	0001.5	1									IIIG																																														
09	0000	0737	CULG																																																													
			CULG																																																													
10	0000	0737	CULG																																																													
			CULG																																																													
11	0000	0737	CULG	0425	0427		0426	0427					IIIG,W																																																			
			CULG	2105	2200		2133	2400					IS,W																																																			
12	0000	0732	CULG	0104	0110		0000	0605					IS,W																																																			
			CULG				0107.5	0111	1				IIIG																																																			

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Misc
Jul 75

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
	START UT	END UT		DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
				START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
12			CULG	0453.5	0454	1	0452.5	0458	1				IIIGG
	2037	2400	CULG	0509.5	0510	1	0506.5	0510	2				IIIG
			CULG				2127	2127.5	1				IIIG
13	0000	0737	CULG	0010	0106		0020	0106					IIIN,W
			CULG	0022	0023		0021	0023					IIIG
	2037	2400	CULG	0104	0106		0104	0106					IIIG
14	0000	0737	CULG	0042	0502								IS,W
	2038	2400	CULG	2100	2400	1							IS
			CULG				2258		1				IIIB
15	0000	0738	CULG	0000	0055								IS,W
	2038	2400	CULG										
16	0000	0738	CULG				0637.5		1				IIIB
	2038	2400	CULG				2118	2255					IIIN,W
17	0000	0738	CULG										
	2038	2400	CULG										
18	0000	0703	CULG										
	0713	0738	CULG										
	2038	2400	CULG										
19	0000	0738	CULG										
	2038	2400	CULG										
20	0000	0738	CULG										
	2038	2400	CULG				2154	2310					IIIN,W
21			CULG				0225	0736					IIIN,W
	0000	0738	CULG				0225	0227	1				IIIG
	2038	2400	CULG										
22	0000	0738	CULG				0107	0107.5	1				IIIG
	2038	2400	CULG										
23	0000	0733	CULG	0125.5									IIIB,W
			CULG				0139		1				IIIB
	2039	2400	CULG										
24	0000	0738	CULG				0150	0152	1				IIIG
			CULG	0356		1	0356		1				IIIB
			CULG				0618		1				IIIG
	2038	2400	CULG										
25	0000	0120	CULG										
	0210	0738	CULG				0422		1				IIIB
	2038	2400	CULG										
26	0000	0738	CULG				0526						IIIB,W
	2038	2400	CULG	2055	2156	1	2125	2220	1				IS
27	0000	0738	CULG				0126	0128	1				IIIG
			CULG				0315		1				IS
			CULG	0435	0536	1							IS
			CULG				2054	2210	1				IIIS
	2038	2400	CULG	2054	2400	1	2054	2400	1				IS
			CULG	2117	2117.5	1	2117	2117.5	1				IIIG,U
			CULG				2210	2400					IIIN,W
28			CULG	0000	0728	1	0000	0728	1				IS
	0000	0728	CULG				0000	0525					IIIN,W
			CULG				0455		1				IIIB
			CULG				0525	0728					IIIS,W
	2040	2400	CULG	2057	2400	1	2057	2400	1				IS
			CULG				2101	2400	1				IIIS
29			CULG				0000	0700	1				IIIS

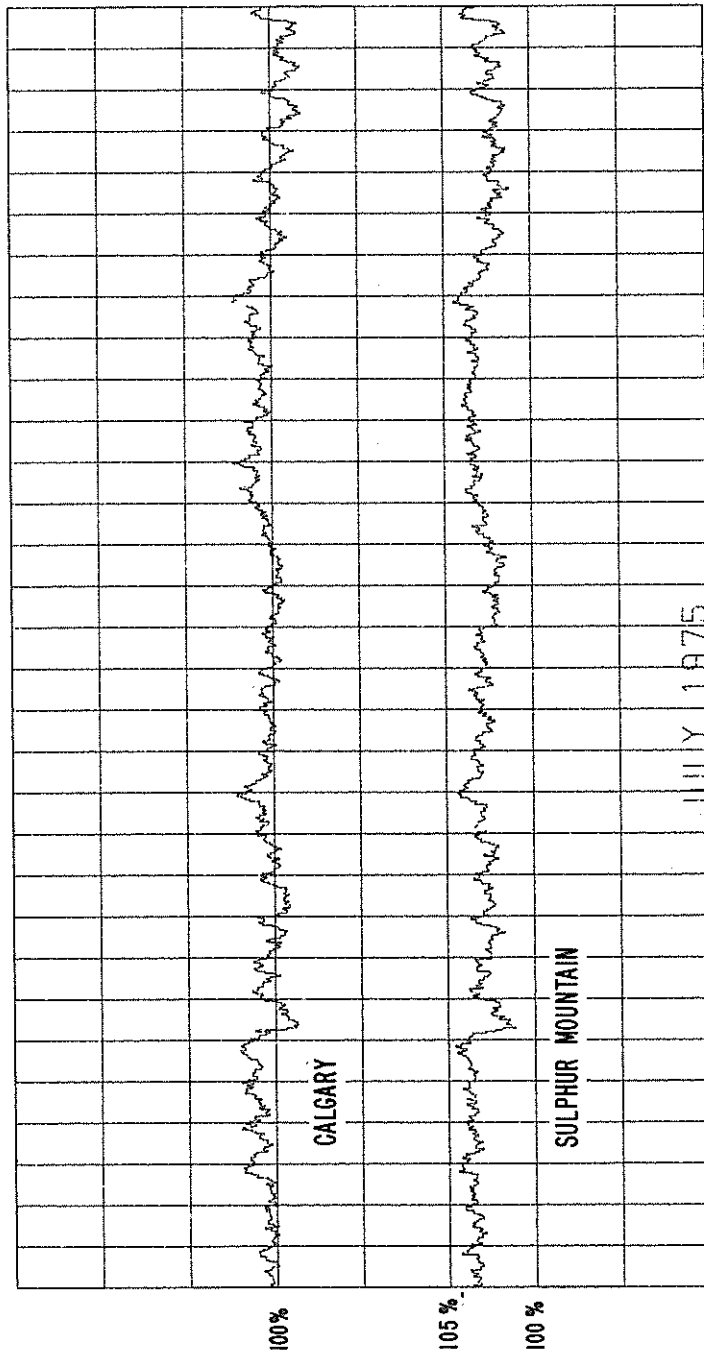
SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

JULY 1975

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Misc
Jul 75

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
	DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND						
	START UT	END UT		INT	START UT	END UT	INT	START UT	END UT	INT			
29	0000	0738	CULG	0800	0720	1	0000	0710	1				IS
			CULG				0637	0638	1				IIIG
			CULG				0656		1				IIIB
	2039	2400	CULG	2052	2400	1							I
			CULG				2100	2400	1				IIIS
			CULG	2112		1	2112		2	2112		1	IIIB
30			CULG				2126.5	2127.5	2	2126.5	2127.5	1	IIIG,V
	0000	0738	CULG				0000	0650	1				IIIS
			CULG	0012	0045								IN,W
			CULG				0021.5	0022.5	2	0022		1	IIIG
	2039	2400	CULG	2051	2309	1	0343		2	0343		1	IIIB
			CULG				2055	2320	1				IN
31			CULG				2132	2329	1				IIIN
			CULG				2321		1				IIIB
	0000	0730	CULG				0011.5	0657					IIIN,W
			CULG	0415	0505		0024	0100					IW
	2040	2400	CULG				2102	2106	1				IIIG
			CULG				2122		1				IIIB
		CULG	2318	2321	1	2318	2321	1				IIIG	

COSMIC RAY INDICES (Neutron Monitors) JULY 1975



Date	Calgary	Sulphur Mt.
1	11765.6	9091.2
2	11751.0	9085.8
3	11795.0	9111.6
4	11837.7	9104.6
5	11848.4	9109.3
6	11878.5	9125.1
7	11685.0	8989.8
8	11800.4	9064.3
9	11726.1	9014.9
10	11677.2	9024.6
11	11730.0	9017.6
12	11821.9	9072.0
13	11797.9	9087.5
14	11740.0	9033.8
15	11761.9	9047.4
16	11727.7	9041.9
17	11697.1	8978.6
18	11684.8	8967.1
19	11764.7	9029.4
20	11852.0	9074.4
21	11841.6	9080.9
22	11780.5	9101.8
23	11797.2	9070.9
24	11858.3	9097.3
25	11794.0	9059.3
26	11704.2	8978.3
27	11716.5	8971.7
28	11679.8	8966.5
29	11620.2	8973.8
30	11618.9	8999.4
31	11658.6	9023.2
MEAN	11755.2	9045.0

UAG Series of Reports

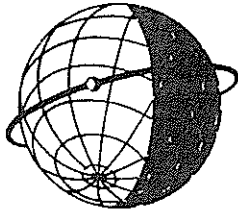
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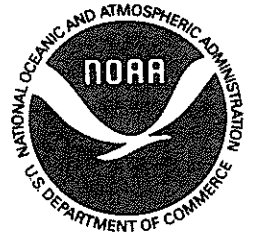
- UAG-33 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1967", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, May 1974, 142 pages, price 75 cents.
- UAG-34 "Absorption Data for the IGY/IGC and IQSY", 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."