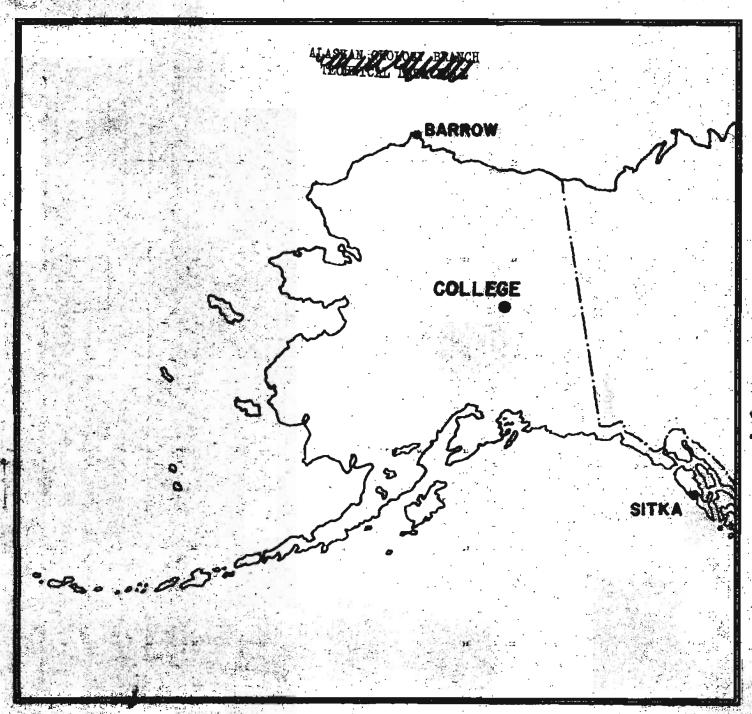
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

PRELIMINARY GEOMAGNETIC DATA COLLEGE OBSERVATORY FAIRBANKS, ALASKA

FEBRUARY 1985

OPEN FILE REPORT 85-0300B



THIS REPORT WAS PREPARED UNDER THE DIRECTION OF JOHN B. TOWNSHEND, CHIEF OF THE COLLEGE OBSERVATORY, WITH THE ASSISTANCE OF THE OBSERVATORY STAFF MEMBERS: J.E. PAPP, E.A. SAUTER, L.Y. TORRENCE, P.A. FRANKLIN AND IN COOPERATION WITH THE GEOPHYSICAL INSTITUTE OF THE UNIVERSITY OF ALASKA. THE COLLEGE OBSERVATORY IS A PART OF THE BRANCH OF GLOBAL SEISMOLOGY AND GEOMAGNETISM OF THE U.S. GEOLOGICAL SURVEY.

Explanation of Data and Reports

Magnetic Activity Report

Outstanding Magnetic Effects

Principal Magnetic Storms

Preliminary Calibration Data and Monthly Mean Absolute Values

Magnetogram Hourly Scalings

Sample Format for Normal and Storm Magnetograms

Normal Magnetograms

Storm Magnetograms (When Normal is too disturbed to read)

COLLEGE OBSERVATORY PRELIMINARY GEOMAGNETIC DATA

EXPLANATION OF DATA AND REPORTS

INTRODUCTION

The preliminary geomagnetic data included here is made available to scientific personnel and organizations as part of a cooperative effort and on a data exchange basis because of the early need by some users. To avoid delay, all of the data is copied from original forms processed at the observatory; therefore it should be regarded as preliminary. Inquiries about this report or about the College Observatory should be addressed to:

Chief, College Observatory U.S. Geological Survey 800 Yukon Drive Pairbanks, Alaska 99701

Requests for copies of the magnetograms except for the current month should be addressed to:

World Data Center A NOAA D63, 325 Broadway Boulder, Colorado 80303

GEOMAGNETIC DATA

Normal, Storm and Rapid Run magnetograms and appropriate calibration data are processed daily at the observatory and are available for analysis or copying. Also available, are mean hourly scalings, K-Indices, selected magnetic phenomena reports and on a real-time basis are recordings from a 3-component fluxgate magnetometer and F-component proton magnetomater.

Magnetic Activity
The K-Index: The K-Index is a logarithmic measurement of the range of the most disturbed component (D or H) of the geomegnetic field for eight intervals beginning 0000-0300, 0300-0600...2100-2400 UT. It is a measure of the difference between the highest and lowest deviation from a smooth curve to be expected for a component on a magnetically quiet day, within a three hour interval.

The Equivalent Daily Amplitude, AK: The K-Index is converted into an equivalent range, ak, which is near the center of the limiting gamma ranges for a given K. The average of the eight values is called equivalent daily amplitude AK. The unit 10y has been chosen so as not to give the illusion of an accuracy not justified.

The schedule for converting gamma range to K, and

K to ak is as follows:

Gamma Range	K - Index	<u>a.k</u>
0 < 23	0	<u> </u>
25 < 50	1	3
50 < 100	2	7
100 < 200	3	15
200 < 350	4	27
350 < 600	5	48
600 < 1000	6	80
1000 < 1650	7	140
1650 < 2500	8	240
2500+	9	400 (10 _Y)

The Magnetic Daily Character Figure, C: To each Universal day a character is assigned on the basis disturbed; C=2, if it is moderately disturbed; C=2, if it is greatly disturbed. The method used to assign characters at the College Observatory is based on AK as follows:

AK Range	C
0=11	ŏ
11-50	1
50+	2

Routine assignment of C was discontinued at College on January 1, 1976.

OBSERVATORY LOCATION

The College Observatory, operated by the U.S. Geological Survey, is located at the University of Alaska, Fairbanks, Alaska. It is near the Auroral Zone and the northern limit of the world's greatest earthquake belt, the circum-Pacific Seismic belt. Although the observatory's basic operation is in geomagnetism and seismology, it cooperates with other scientists and organizations in areas where the facility and personnel can be of service.

The observatory is one of three operated by the USGS in Alaska. The others are located at Barrow

and Sitka.

The position of the observatory site is: Geographic latitude 640 51.6'N Geographic longitude 147º 50.2'W Geomagnetic latitude +64.60 Geomagnetic longitude +256.9

Selected Phenomena & Outstanding Magnetic Effects
Prior to January 1, 1976, the Normal and Rapid Run records were reviewed at the observatory for selected magnetic phenomena and the events identified were forwarded to the IUGG Commission on Magnetic Variations and Disturbances. This was discontinued on January 1, 1976, but a report on Outstanding Magnetic Effects is prepared monthly for this report.

Principal Magnetic Storms

Gradual and sudden commencement magnetic disturbances with at least one K-Index of 5 or greater, which are believed to be part of a world-wide disturbance, are classified as principal magnetic storms. The time of the storm beginning and ending; direction and amplitude of sudden commencements; period of maximum activity; and storm range are reported. Monthly reports of these data are forwarded to the World Data Center A in Boulder, Colorado.

Magnetogram Hourly Scalings

Magnetogram hourly soalings are averages for successive periods of one hour for the D, H and 2 elements. The Value in the column headed "Ol" is the average for the hour beginning 0000 and ending 0100. Note that the values on the scaling sheets are in tenths of ma with the decimal point omitted. The user of these scalings should keep in mind that the tabular values are hourly means and if he is interested in the detailed morphology of the magnetic field, he should refer directly to the magnetograms.

Magnetograms

The normal magnetograms in this report are reproduced at about one-third the size of the originals. Preliminary base-line values and scale values adopted for use with the original magnetograms are included. For days when the magnetic field is too disturbed for the Normal magnetogram to be readable. Storm magnetograms are reproduced.

Absolutes, Base-lines and Scale Values

To determine the absolute value of the magnetic field from the hourly means or from point scalings the following equations should be used:

D=BD+d.SD; H=BH+h-SH; Z=BZ+2.SZ where D, H and 2 are absolute values; BD, BH and B2 are base-line values; SD, SH and S2 are soale values; and d, h and z are scalings in millimeters. NOAA FORM 76-133 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

MAGNETIC ACTIVITY

(Greenwich civil time, counted from midnight to midnight)

OBSERVATORY

COLLEGE, ALASKA

MONTH AND YEAR

FEBRUARY 1985

					K-IH	DICES	l				TIME SCALE ON
DATE	60	90-60	€ 0- 9 0	21-40	12-15	5147	12-41	21-24	SUM	AK	MAGNETOGRAMS 20 mm/br
1 2 3 4 5	2 1 1 0 0	2 3 2 0 3	6 2 1 0 4	6 4 2 0 3	. 5 3 6 0 6	4 2 4 0 5	3 2 1 1 2	2 2 0 0 2	30 19 17 01 25	34 11 16 00 25	SUDDEN COMMENCEMENTS d h m
6 7 8 9	3 3 2 2 3	4 2 2 4 3	5 3 2 5 4	6 7 6 6 4	6 7 5 6	7 3 5 5 5	6 3 5 3 5	3 2 4 2 2	40 30 31 33 32	61 44 34 39 33	
11 12 13 14 15	2 2 0 2 2	2 3 0 2 2	2 3 0 3 3	5 4 3 5	4 5 5 4 0	5 4 3 5 0	3 3 2 1	2 0 2 3 1	25 22 16 26 10	21 18 13 22 05	
16 17 18 19	0 2 0 0 2	0 3 1 1 4	1 3 2 0 5	1 5 2 0 5	5 6 0 2 5	5 5 0 1	2 3 1 1	2 1 0 2 0	16 28 06 07 23	15 29 03 03 23	POSSIBLE SOLAR-FLARE EFFECTS BASED ON INSPECTION OF GRAMS ALONE (WITHOUT
21 22 23 24 25	0 2 1 3 2	0 1 0 4 3	1 2 3 4 5	1 2 3. 5 5	3 4 3 4	4 3 2 4 3	3 1 2 1 2	2 1 2 0	14 16 15 27 24	09 09 08 23 21	REFERENCE TO DATA FROM OTHER SOURCES) BEGIN END d b m d b m
26 27 28 29 30 31	1 1 5	2 1 7	2 1 6	1 3 6	0 3 7	0 3 5	1 1 3	1 4 2	08 17 41	03 11 70	

K SCALE USED:	D	н	Z	
LOWER LIMIT FOR K = 9	675.7	322.2		(mn)
CURRENT SCALE VALUE	3.72	7.83		(Y/mm)
LOWER LIMIT FOR K = 9	2510	2520		(to nearest 107)

SCALINGS AND COMPUTATIONS HAVE BEEN CHECKED.

APPROVED JOHN B. TOWNSHEND, CHIEF, COLLEGE OBSERVATORY

OUTSTANDING MAGNETIC EFFECTS

OBSERVATORY
COLLEGE, ALASKA
MONTH
FEBRUARY
1985

DATE	TIME	NATURE OF	REMARK	S
	U.T.	PHENOMENON 1	4104 44 4414	
04	18xx	pc5		
. 04	3077	pey		
. 05	0347	ssc*		
14	Olxx	pc3, pc4, pc5		
15	16xx	7-2 70/ 705		
1)	TOXX	pc3, pc4, pc5		
16	20xx	pc3, pc4		
			·	
17	18xx	pc4		
	1		<i>:</i>	
				·
				` .
			•	
	}			
			·	
		1		
TDDUM	יים מחדם		UPDIDIED DV.	
IDENT	FIED BY	JEP	VERIFIED BY:	T

1. NATURE OF PHENOMENON: ssc, ssc*, si, si*, b, bp, bs, bps, pcl, pc2 - - - pc5, pg, pi l, pi 2, sfe.

NOAA FORM 86-500 (11/73)

Data from Individual Observatories:

PRINCIPAL MAGNETIC STORMS

WDČ-A POR BOLAR-TEIREITHIAL PHYSICS ENVIRONBENTAL DATA RERVICE, MDAA ROULDER, COLGRADO BOSOE U.B.A.

COLLEGE OBSERVATORY, COLLEGE, ALASKA
FEBRUARY
19 85

22 22 21 hr UT End day 10 04 28 1300 710 850 (X) Ranges ¥(₹) 1620 1120 1760 ٥(١) 140 234 291 ~ ~ × 999 ~ period) - index ł 3 Ŋ 5 3 hr hr ત્રે 9 3 Marx. day 36 268 28 $z(\lambda)$ +22 - amplitudes H(≺) +135 (,) SC +16 *.o.a type Commencement hr min (UI) 0347 **XX60** 21XX day 27 0 8 Geomag. 84°6 N lat. ODB. Z 1ster ZAGA ္ပ

		PRELIMINARY CALIBRATION DA		FEBRUARY						
	770		OLD I	CALIER	APTON					
тизиочно	FROM	RICO TO	SCALE 1		BASELINE					
	<u> </u>		1.0/mm	3.7 5/mm	27° 14.8 E					
	0000 U.T., 2-1-85	2400 U.T., 2-28-85	7.0/1914	3, / 8/1911	21 14.0 2					
D		·		-						
	0000 U.T., 2-1-85	2400 U.T. 2-8-85	7.8	s /mm	12672 8					
В	0000 U.T. 2-9-85	2400 U.T. 2-28-85	~		12661 8					
ь.										
	0000 U.T. 2-1-85	2400 U.T. 2-14-85		Y/mm	551748					
Ż	0000 U.T. 2-15-85	2400 U.T. 2-22-85	**		55185 X					
	0000 U.T. 2-13-85	2400 U.T. 2-28-85			55178 K					
		STORM MAGNETOGRA	LPH							
	TPR:	RIOD		CALTER	ATION					
CMPORENT	PROM	70	SCALE V		BASELINE					
	0000 U.T. 2-1-85	2400 U.T. 2-28-85	7.9/mm	29.5 8/mm	23° 44.0 E					
	220 VIII, # 1-03	- 1 0,1, 00	<i>) MN</i>	~ 5.5 4 NIN						
D					·					
-	0000 U.T., 2-1-85	2400 U.T. 2-8-85	43.8	s/mm	107978					
Ħ	0000 U.T. 2-9-85	2400 U.T. 2-28-85	н		107738					
_										
***	0000 U.T. 2-1-85	2400 U.T. 2-28-85	48.2	Y /man	540948					
_	7	<u> </u>	7015	<i>- 11-11.71</i>	<u> </u>					
Z			_							
		RAPID RUN MAGRETO	GRAPE							
Mblana as	. PE	RICOD		CALITRA						
ONPONENT	FROM	10		SCALE	ANTITE					
D					_					
		<u> </u>	-	- Y) Y						
	-	-								
H										
					·					
.										
Z										
		MONTHLY HEAR ANSOLUTE	VALUES*							
	D	я			2					
á	17° 41.7 E	129068		5	5344 8					
* COHOPU	FROM DEM QUIETEST DAYS			_						
	sen: FEB	2, 4, 15, 18	19	21 22	23 26 27					

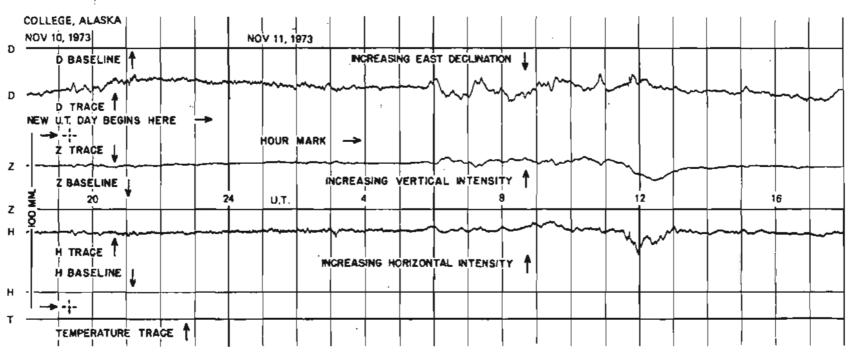
ij

Г	70=4	CAG	1-444-							ж.	AGHETO	GRAM P	10URLY	SCALI	HGS						lan		rusy. Lead	of OF (47) Imple 9141	9 Loan	Y. VE	Make Make	TH BLE-
		V	abung asp trinkage d	in sende	of mp. s	må her es eta opple	origes (s rd. Keps	m pacces	LSTE pr zie F3 4FE id) out swed o	UNIVER	IAL TIME	()		laçat éty	(135)	4.T.) is 1	<u> 09</u>	_ of the _	<u> 5850</u>	_vi : P0 I	9C 11	er, ci 1	**** a	5 8	5 F1	EĖ Z
c	9 70		01	43	Q3	94	04	06	67	00	C/B	10	-	11	30	112	14	33	16	n	10	18	340	21	22	23	24	SUM
		01	252	255	260	275	265	255	256	270	214	330	157	176	41	190	218	148	173	163	153	207	/89	207	233	237	245	5348
		O2	253	245	246	247	274	316	323	296	606	217	176	104	DZ	144	200	190	188	189	208	210	/93	204	223	234	243	5731
		63	246	253	251	249	247	247	252	249	256	256	206	223	503	181	123	0	67	175	203	240	223	232	234	239	243	5095
		٥	245	246	243	240	240	241	240	240	237	240	240	239	04	235	234	236	234	235	235	234	233	238	239	242	243	5733
		o	239	241	237	238	247	260	303	183	184	204	264	252	04	273	310	289	-70	54	177	188	200	200	206	231	260	5/72
Н		19	269	302	279	266	273	261	176	188	-20	157	303 *	411	558	588	-34	148	200	215	258	42	118	173	216	233	254	527/
Н		97	100 177	277	267	256	253	258	29/	145	227	224	103	201"	97	36 "	-4	86	167	219	232	229	214	213	216	233	245	4862
Н		04	247	266	282	255	258	247	243	246	253	105	-154**	<u>59</u>	00	312	249	190	260	183	150	217	163	229	249	246	243	4993
\vdash	\dashv	100		293	301	274	292	298	247	-28	49 *	23	27	303	O#	359°	412	258	/39	108	/93	246	248	237	235	254	246	5274
\vdash	+	*	100	257	298	268	298	303	257	273	160	70	218	223	10	173	217	-20	103	201	213	200	/33	/35	206	223	234	4903
Н	+	10	241	245	252	247	260	27/	267	246	243	/93	173	/37	P1	40	92	239	207	/97	217	211	227	227	236	252	244	5164
\vdash	}~	-	243	252	243	241	242	283	277	273	211	142	157	117	12	/77	/77	183	144	203	215	230	227	223	226	233	234	5155
Н		113	239	238	237	239	236	234	233	233	232	238	237	194	13	90_	117	189	/97	184	204	190	163	166	203	223	226	4892
\vdash		14	- T-7	243	256	254	244	277	3/3	273	217	243	167	100	14	50	151	/58	186	146	89	126	193	206	208	245	248	4796
\vdash		119	254	256	274	262	248	260	243	246	185	245	238	223	18	230	229	225	226	228	233	232	230	228	229	233	239	5696
\vdash	- -⊦-	10	7-50	236	236	235	237	236	233	234	246	247	246	237	11	205	/93	/28	35	106	181	198	214	219	220	227	228	5014
H		''	P103	234	246	250	285	323	3/3	273	/89	30	100	188	17	180	147	43 7	-159	-287	-197	-42	47	142	/93	207	224	3/88
Н		18	226	226	227	230	232	232	229	228	250	167	195	216	10	216	210	207	207	215	216	215	2/3	216	223	225	226	5247
Н		19	227	225	220	221	224	243	225	223	2/9	224	223	221	19	223	217	177	186	/93	/ 9 7	190	187	/78	183	199	184	5009
┝╼┤		20	1	244	247	279	350	<i>-283</i> *	67.	-/05	92"	162"	180	279	20	<u> 250°</u>	16B T	164	212	216	216	214	203	194	205	210	221	4770
⊦∔		21	223	227	225	221	221	233	228	248	243	231	223	204	2;	/94	200	/37	64	10	/23	182	/73	143	80	140	207	74/2
H	+	12		226	254	234	233	230	224	243	262	254	239	223	23	218	206	140	93	107	138	178	/79	202	203	211	221	4939
H		┪~~	120	221	219		220	237	256	333	309	268	240	217	213	141	184	148	197	212	202	166	137	129	154	177	207	5079
$\vdash \downarrow$	+	•	227	254	259	297	2/8	292	232	162	167	196	314	303	24	183	204	203	116	//7	173	185	200	/93	204	226	213	5/88
┝╌┦	+	25	201	236	243	248	274	271	333	322	/37	74	/92	181	25	185	184	166	/97	195	209_	228	233	224	224	226	228	5247
\mapsto	-	246		239	241	247	264	259	276	253	255	253	236	226	24	219	207	212	220	224	222	203	187	187	202	214	213	5 4 90
H	+	27		228	233	231	240	243	252	242	254	250	250	226	27	/92	107	9/	/37	193	/93	197	207	206	203	237	248	5086
\vdash		23	1	300	188	~47 ~	/88 "	-34	-/87	80 "	129	265	593	245	24	488	-52	90	146	100	241	239	248	237	240	249	244	4671
H	+	╁	┪━	ļ	-			 	<u> </u>	<u> </u>		<u> </u>	 	<u> </u>	I	<u> </u>	<u> </u>	 	├	ļ.—	ļ	 			-	-		
$\vdash \vdash$	+	340	+				 			 	ļ. <u> </u>				30			 	ļ	<u> </u>	<u> </u>		1		-	 	├	
*CA	31 31 ALEO						.l==== t =		.4			l			.81		_	<u>.</u>					1	<u> </u>		ļ		<u> </u>
. 10*		4	Y 7			Jacobs	m S		od centu : lape-lune	vellung.	Sens							() takes () Wine			C	ažieną (Lam la	g varerra seric Lic	ie becom	4	HOMPIG		141,425
	Explaning Value Value													dican pol			الانتاء	of hour; i	Abert for just HONTHS OUT If whise is DATES				2/0					
	tions of JEP											evollable betaves of for mission marc.							- / - A									
PUR	UNCHED												foulty regard. * Derived from STORM Maph., converted to Normal Maph.															
_ 4																						,	14			<u> </u>		

	# 10 hour CaGLablas ### ################################																-				. 400!	U,1, Sugical in	اومی روجه د از ویستون	lugta profi Isigras če	ilan She	Y. YE 4	R MD+	ELE- UEST
			Values as Shrinkage	r în trathi correction	ol may, a	nd ole ov ren applic	ernger to	r nuccess jet valuc	ive peris	क्ट को स्कर रुद्ध, जांक	have been	ineine w	mideisch:) Heet ()) ed 1	local Any	(<u>135%</u>)	4.T.) in 1	<u>09</u>	_ ef the _	88700	_ == 17712	u) day.	, u •	α α	8;	5 17	E 63
-	Q 24	Ir.	× 0	632	03	04	ós í	8	ā	78	09	10	61	12	1	18	34	18	18	17	10	19	30	21	2,2	23	24	Elyte
П	01 301 298 312						326	3/3	319	328	240	/48	220	47	01	-100	15	200	287	137	283	290	303	3/4	313	313	3/2	5839
			02 314	3/2	311	309	323	343	373	341	341	326	286	149	Ç2	273	263	238	260	289	300	288	304	310	307	307	302	7/91
			01 299	293	307	310	316	309	395	313	309	309	312	309	сJ	158	-201	-40	769	3/0	320	323	303	297	305	301	305	6.336
			a 305	305	307	307	310	305	305	302	300	300	300	302	8	302	307	307	307	303	303	300	297	300	300	303	309	7286
			8 30	303	307	316	320	320	490	540	514	450	360	360	os	312	129	285	0	243	343	330	300	290	290	300	297	7190
			∞ 277	240	341	319	3.90	463	400	65	170	199	80	-280	06	-369	-223	269	330	246	-501*	0	320	915	311	831	300	4013
			07 329	317	323	320	321	317	360	341	352	349	189	-207#	07	-581*	85	223	244	290	321	296	306	302	292	290	308	5707
П	П		· 323	3/3	310	323	332	319	318	306	329	185*	-117	205	8	46	50	274	179	170	140	80	346	258	183	273	309	5454
			on 326	314	320	347	387	443	477	359*	331 *	268	67	-33	01	-55	-190	30	150	213	328	373	323	300	306	292	283	5859
П			10 300	322	308	340	376	376	321	356	357	325	349	180	10	-17*	207	-83*	249	342	173	80	193	288	312	301	317	5978
			11 3/6	319	323	317	3/3	319	340	337	336	323	320	175	11	193	100	-18	133	3/3	303	322	320	3/2	309	296	294	6617
М	\Box		12 314	327	3/5	3/9	320	359	356	35B	4/3	293	320	156	12	54*	170	-20	153	337	305	303	310	310	310	304	303	6575
			307	313	317	317	316	3/3	3/3	3/3	315	310	307	260	13	80	267	311	283	297	3/7	301	243	288	316	309	301	7014
			14 303	3/6	330	332	337	340	371	400	453	347	190	100	14	80	227	303	340	227	63	322	330	309	303	277	299	6919
			14 324	300	289	333	359	327	310	32!	330	320	310	307	19	310	309	309	309	309	307	916	33	3//	300	295	298	7518
			10 29]3∞	310	318	320	313	320	320	323	337	328	323	16	3/3	273	/90	43	393	318	3/9	319	320	311	300	295	7/29
П	П		17 308	316	329	320	312	388	451	504	479	333	177	169	17	7/	-14*	-355	-/26	-9 4	145	287	327	343	330	327	323	5749
\Box			18 322	323	327	329	3/8	311	316	313	307	337	341	316	18	310	304	312	315	316	3/2	913	30	308	313	310	310	7598
П		_	10 310	310	321	326	323	307	3/9	318	318	3/8	317	321	19	321	317	283	3/7	308	299	307	302	197	300	278	279	7416
			20 303	326	342	427	487	642	794	690	581	453	268	267	20	115	107	337	3/7	3/3	310	289	281	301	311	308	307	8876
			21 310	311	313	320	329	327	323	327	325	316	317	310	Z1	309	300	192	1/2	221	321	393	30	223	267	309	309	7037
П			n 305	306	329	327	336	350	333	383	357	360	369	373	ы	325	272	117	200	305	3/9	319	325	318	3/2	307	310	7501
П			21 306	318	328	330	327	331	358	410	431	379	351	323	23	275	265	243	3/9	311	290	280	296	315	309	293	3/3	7703
П			24 306	339	382	418	62/	543	58/	458	383	407	178	153	24	290	303	123	118	300	319	320	308	280	248	279	3/2	8101
Г			23 3/9	326	333	347	987	401	418	507	621	359	248	184	25	191	160	300	291	293	292	339	331	3/1	307	303	305	7895
	\Box		26 307	296	297	319	322	337	349	3/9	320	317	313	303	26	307	309	305	3/3	305	297	263	287	199	307	299	307	7597
Г			27 307	3/3	3/3	325	329	339	337	330	329	333	337	298	27	196	118	161	325	343	332	331	329	319	310	183	340	7/77
			21 347		535	764	594	322	249	467	400	191	405	198	24	444	-/14	151	4	285	253	340	281	325	301	307	303	5425
Г	П		25			1		_				1	1		25	1	1	Ì	1				1	1				
	М		30			\Box	1	Τ					1	T	300]	Ţ		\top					Ţ			\top	
\Box	П		31		1	}					Γ.		-		31			T	T^{-}	}					1	1		
	LED		LYT		•	Profi	Proliminary besorbing and scale values:											() Ine	2 po)ated	_] Şçelin	g weetti	ia becau	4.0	HOMTHI	LY BUM	190,700
СНІ	E C.K.E	<u> </u>	2027				nterval Base-lioc Scale FJ Significant portion of legioning Value Value how interpolated.								of magnetic storm.						MONTHLY WEAR 184							
Mail Rt-						1													He records or no values give evaluation because of				or all of hour; If value is given, Currywan escimaced los migning part.				FITH GAP	5 1
-	*CHE					1												fembry record.										
	4																	Princed from STORM Majde, conveyed to Merma) High.						<u>'</u>				

.

FORMAT FOR NORMAL & STORM MAGNETOGRAMS (SAMPLE ONLY)



SEE PRELIMINARY CALIBRATION DATA FOR SCALE VALUES & BASELINE VALUES

