

XEROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

AD-A173 658



AFGL-TR-85-0028
SPECIAL REPORTS, NO. 244

Daily Magnetograms for 1979 From the AFGL Network

DAVID J. KNECHT



22 February 1985



Approved for public release; distribution unlimited.



DTIC
SELECTED
OCT 29 1986
S E D

SPACE PHYSICS DIVISION

PROJECT 7601

AIR FORCE GEOPHYSICS LABORATORY

HANSCOM AFB, MA 01731


DTIC FILE COPY



16 10 29 046

"This technical report has been reviewed and is approved for publication"

FOR THE COMMANDER


WILLIAM J. BURKE, Chief
Space Plasmas and Fields Branch


RITA C. SAGALIN, Director
Space Physics Division

This document has been reviewed by the ESD Public Affairs Office (PA) and is releasable to the National Technical Information Service (NTIS).

Qualified requestors may obtain additional copies from the Defense Technical Information Center. All others should apply to the National Technical Information Service.

If your address has changed, or if you wish to be removed from the mailing list, or if the addressee is no longer employed by your organization, please notify AFGL/DAA, Hanscom AFB, MA 01731. This will assist us in maintaining a current mailing list.

DISCLAIMER NOTICE

THIS DOCUMENT IS 'BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE					
1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS			
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited.			
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S) AFGL-TR-85-0028 SR, No. 244		5. MONITORING ORGANIZATION REPORT NUMBER(S)			
6a. NAME OF PERFORMING ORGANIZATION Air Force Geophysics Laboratory	6b. OFFICE SYMBOL (If applicable) PHG	7a. NAME OF MONITORING ORGANIZATION			
6c. ADDRESS (City, State and ZIP Code) Hanscom AFB Massachusetts 01731		7b. ADDRESS (City, State and ZIP Code)			
8a. NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER			
8c. ADDRESS (City, State and ZIP Code)		10. SOURCE OF FUNDING NOS			
11. TITLE (Include Security Classification) Daily Magneto- grams for 1979 from the AFGL Network		PROGRAM ELEMENT NO	PROJECT NO	TASK NO	WORK UNIT NO
		62101F	7601	18	01
12. PERSONAL AUTHOR(S) David J. Knecht					
13a. TYPE OF REPORT Inhouse	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Yr., Mo., Day) 1985 February 22	15. PAGE COUNT 418		
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB. GR.	Magnetograms Magnetic storms Variations		
8	14	2	Magnetic field Substorms Geomagnetism		
3	2	11	Network Ground measurements		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) A stacked plot of 24-hour magnetograms from the AFGL Magnetometer Network is presented for each UT day of the year 1979. Each plot, on a single page, contains all 21 traces from the fluxgate magnetometers of the network (three components at seven stations). The data plotted are 2-min averages of the 1-min edited data set that has been provided to the World Data Center. To aid in comparisons between days, the magnetograms are plotted with a fixed amplitude scale that preserves a resolution of one or two nanoteslas. For the 10 percent of all days that are more active, the plots have been repeated at a reduced amplitude. These magnetograms serve to assess the general character of magnetic activity, identify events for scientific study, and indicate the coverage and quality of the data available from the World Data Center.					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input checked="" type="checkbox"/> DTIC USERS <input type="checkbox"/>		21. ABSTRACT SECURITY CLASSIFICATION Unclassified			
22a. NAME OF RESPONSIBLE INDIVIDUAL David J. Knecht		22b. TELEPHONE NUMBER (Include Area Code) (617) 861-2433	22c. OFFICE SYMBOL PHG		

DD FORM 1473, 83 APR

EDITION OF 1 JAN 73 IS OBSOLETE

Unclassified
SECURITY CLASSIFICATION OF THIS PAGE

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	
A-1	

Preface

This volume of magnetograms from the AFGL Magnetometer Network is the second in what is intended to be a set of six yearly volumes covering the years 1978 through 1983. Descriptive material needed to explain the magnetograms is repeated so each volume can be used independently.

These volumes are dedicated to the memory of Robert W. Crowe, who, as a high-school student, carried out much of the computer work that produced the edited data shown in these plots and who lost his life in October 1982 while the work was under way.

Many other persons have also contributed greatly to this effort. The project, which required reading more than 1200 input data tapes, writing more than 4500 edited-data tapes, and making and assembling more than 6500 separate plots for these volumes, was made possible by the dedicated efforts of a group of college and high-school students. Armand Paboojian supervised and personally undertook much of the production of the edited data base. Ric Laperriere, Stephen Morris, Catherine Whittaker, Glenn Ellis, and Ara Topjian also contributed many hours to this work. Fr. John F. Devane, S. J., directed the contractual effort of Boston College under which most of the students worked. Ric Laperriere carried out a large fraction of the production runs that produced the final plots. These generous contributions are gratefully acknowledged.

Contents

1. INTRODUCTION	1
2. DESCRIPTION OF THE NETWORK	2
3. EDITING OF THE DATA	3
4. DESCRIPTION OF THE PLOTS	4
5. METHOD OF PRODUCING THE PLOTS	5
6. CAUTIONS ABOUT USE OF THE PLOTS	6
7. BASIC PLOTS AT STANDARD AMPLITUDE	7
8. SUPPLEMENTARY PLOTS AT REDUCED AMPLITUDE	373

Illustrations

1. Map of the AFGL Magnetometer Network	2
365 Daily Magnetograms at Standard Amplitude	8-372
38 Daily Magnetograms at Reduced Amplitude	374-411

Tables

1. Locations of the Data-Collection Stations	3
--	---

Daily Magnetograms for 1979 From the AFGL Network

1. INTRODUCTION

From mid-1976 through 1983, the AFGL Magnetometer Network made continuous measurements of the surface magnetic field at seven stations spanning the contiguous United States. An edited data base has been produced for the period 1978-1983; it consists of three-component measurements of the field at the seven network stations by fluxgate magnetometers sampled once per second. A subset of these data, consisting of 1-min average values in the standard IMS format, is available to the scientific community through the World Data Center.

This report, one of a series of yearly volumes, presents the 1-min subset of data for the year 1979 in the form of stacked daily magnetograms, one day per page. The anticipated uses of these plots include: (1) discovering the overall pattern of magnetic activity across the United States for any day, (2) identifying events for scientific study, and (3) indicating the coverage and quality of the data available from the World Data Center.

For the basic set of 365 daily plots, the question of amplitude scale was resolved in favor of a constant value for all plots to facilitate comparison when scanning over many pages. However, for about 10 percent of all days this choice causes traces to be offscale or confused, so for these days the plot is repeated on a less sensitive scale in a subsequent section of supplemental plots.

(Received for publication 14 February 1985)

2. DESCRIPTION OF THE NETWORK

The AFGL Magnetometer Network consisted of seven remote instrumented stations at the locations shown in Figure 1 and listed in Table 1. The five northern stations form a line at approximately 55 degrees cgm latitude, while the two southern stations are both at about 40 degrees cgm latitude.

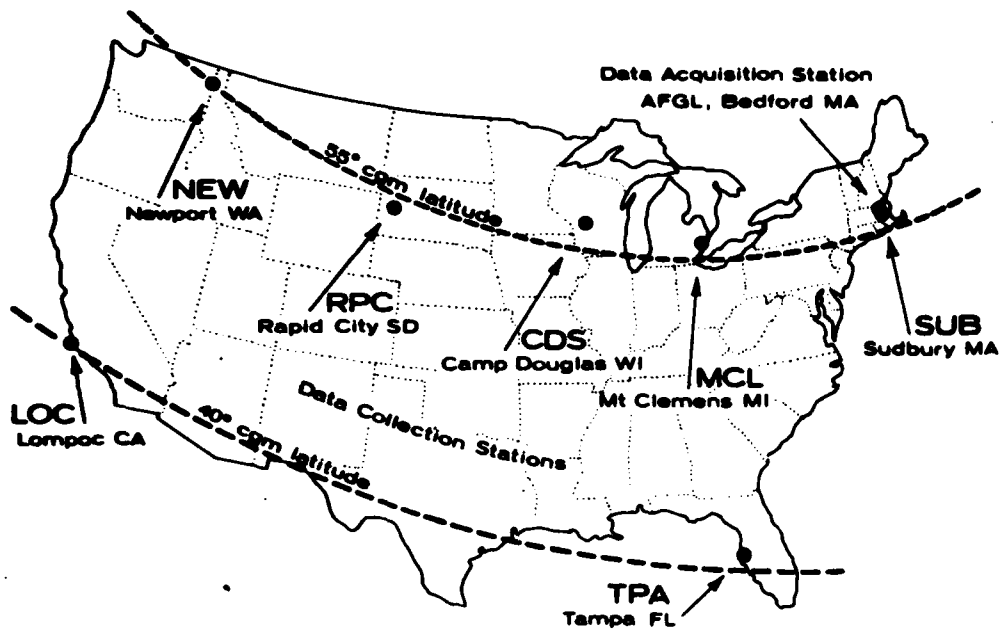


Figure 1. Map of the AFGL Magnetometer Network

The instrumentation at all sites was essentially identical. The instrument which made the measurements presented here is a three-component fluxgate magnetometer built by the University of California at Los Angeles. (Data from a second instrument, an induction-coil magnetometer, is not discussed). The fluxgate magnetometer has a basic analog (fine-scale) range of -64 to +64 nanoteslas; it is kept onscale by applying to the sensor a precise (coarse-scale) nulling field of an integral multiple of 64 nT to cover the full range of approximately -65,000 to +65,000 nT. The fine-scale output is digitized by an 11-bit analog-to-digital converter, with the least significant bit representing 1/16 nT. The instrument was sampled once per second.

Data from all stations were returned to a data-acquisition station at AFGL via a single dedicated voice-grade circuit made up largely of ordinary phone lines and

having a branch to each of the stations. A polling signal sent from the data-acquisition station synchronized all stations to within several milliseconds accuracy by incorporating compensation for propagation delays. Data collected at each station during any 10-sec sampling interval were transmitted in a block at some point during the next interval. A forward-error-correcting scheme was used to eliminate transmission errors. Data were received, compressed, formatted, and archived on magnetic tape by a dedicated minicomputer. Subsequently, several series of edited-data tapes were produced from the archive tapes, using the same minicomputer, as described in the following section.

Table 1. Locations of the Data-Collection Stations

Station Symbol and Name (post office)	Corrected Geomagnetic Coordinates		Graphic Coordinates		Government Installation
	N Lat	E Long	N Lat	E Long	
NEW Newport WA	55.2	299.6	48.3	117.1	USGS Newport Observatory
RPC Rapid City SD	54.1	317.3	44.2	103.1	Ellsworth Air Force Base
CDS Camp Douglas WI	56.3	334.2	44.0	90.3	Volk Field (Natl. Guard Base)
MCL Mount Clemens MI	55.8	344.8	42.6	82.9	Selfridge Air Natl. Guard Base
SUB Sudbury MA	55.8	1.9	42.2	71.3	Army Natick Laboratory Annex
LOC Lompoc CA	40.2	300.6	34.7	120.6	Vandenberg Air Force Base
TPA Tampa FL	40.7	344.9	27.8	82.5	MacDill Air Force Base

3. EDITING OF THE DATA

The content of the archive data tapes is the series of successive data transmissions, recorded with minimal processing at the time of reception. These raw tapes are somewhat inconvenient for general use, since they reflect network malfunctions of many kinds, include other scientific and housekeeping data, and use a complex format for economy. An edited version, containing only the fluxgate measurements, was desired, and an automated procedure for processing these tapes was developed.

The editing process was designed to correct for a number of errors likely (and often known) to occur in the data because of various equipment malfunctions. The basis for detecting and assessing the errors was a set of redundancy and consistency checks built into or inherent in the data. The faults corrected (in most cases by

discarding the faulty data) included (1) magnetometer outputs differing from a nominal quiet-time value by more than 2048 nT, (2) transmissions not confirmed to have come from the correct station, and (3) incorrect time values associated with transmissions. At the same time, the data were organized by time interval, station, and component, with missing data filled with blanks.

It may be noted that the faults addressed in editing are almost exclusively those of the collection and transmission system; the only criterion placed on the magnetometer output was that it be reasonably close to an expected value. One reason for this is that rigorous criteria for assessing the correctness of the magnetometer data are so lacking that an automated procedure is not possible. But another reason is that, for many purposes, the usefulness of the data is only slightly (or not at all) diminished by the most common malfunctions. Therefore, most failures experienced with the magnetometers are still reflected in the edited data. Since the stations were unattended, a number of days often elapsed before a malfunction was corrected, and caution is necessary in using these data. Some specific guidance is provided in Section 6 below.

4. DESCRIPTION OF THE PLOTS

The basic set of plots is presented in Section 7. It includes, for each day in the year, daily magnetograms for all three components of the seven network stations, a total of 21 traces. These are grouped into three panels by component, in the order X, Y, Z from top to bottom of the page, where X is magnetic north, Y is magnetic east, and Z is vertically downward. This alignment was only approximate, and during the early years X and Y were often rotated slightly about Z to keep the Y component slightly positive. To facilitate comparisons between adjacent stations, the traces within each panel are further ordered by plotting the 55-degree stations first, west to east, followed by the two 40-degree stations, west to east.

For the basic set of plots a common fixed amplitude scale was selected for ease in comparing between days. The value 40 nT per major division was chosen because it kept about 90 percent of the plots on scale. A major division is the distance between the dotted baselines for adjacent traces. One minor division represents 10 nT, and a resolution of about one or two nT is preserved in the traces. For active days on which the traces go offscale or become confused by overlap, a supplementary set of plots, using a scale of 160 or 400 nT per major division is presented in Section 8. A small solid triangle following the date on the basic plot in Section 7 indicates that a supplementary plot has been provided.

Each trace is labeled at the left with a three-letter station code. Its absolute calibration is provided by the corresponding value (in nT) of the horizontal dotted

baseline. This value, appearing just below the station code, is the 24-hour mean of the data plotted, rounded to the nearest nanotesla. The station code and baseline value are omitted whenever all data points in a trace are blanks or, very rarely, when a badly malfunctioning trace has been eliminated to avoid obscuring good traces. The presence of the label usually (but not reliably) indicates that the trace is not completely blank.

The time scale covers the 24-hour UT day, with 1-hour and 10-min subdivisions. The edited data base consists of one value per minute (good datum or blank) for each of the 21 traces, but since this sampling rate exceeds the resolution possible on the page, 2-min averages were plotted instead. This results in 720 points per day, and since the full-scale length of the time axis is roughly 144 mm, the point-to-point spacing is about 0.2 mm (0.008 in.).

The date is printed at the lower left corner of each plot, first in the form day-of-month, month, year. It is repeated, in parentheses, in the form year (followed by a period) and day-of-year. As noted above, a solid triangle after the final parenthesis indicates the presence of a supplementary plot in Section 8.

5. METHOD OF PRODUCING THE PLOTS

The plots were generated by the network minicomputer (Varian model V72, vintage 1972) with 7-track tape units to read input data. The automated plot program was written in FORTRAN and incorporated Varian Dataplot software. The output device was a Tektronix type 4014 terminal equipped with a type 4631 hardcopy unit. With this equipment the plot is first drawn by an electron beam on the screen of the CRT (a storage device) and then copied to the hardcopy unit by a second beam which scans the screen; a third beam in the hardcopy unit writes the plot onto a dry-silver heat-developed paper. The three panels for each day of data were produced separately and then trimmed and taped together by hand, using overlapping registration marks for alignment. Since the image on the dry-silver paper deteriorates rapidly, the assembled plots were then copied, with a reduction to 74 percent of original size, on an IBM series III model 20 photocopier. These copies were furnished for the printer to use without further reduction.

The linearity and accuracy afforded by this method is sufficient for most purposes but does not equal that achievable by producing all three panels at once on a good electrostatic plotter and photoreducing the plots in the printshop. Some care may therefore be necessary in attempting precise measurements from these plots.

6. CAUTIONS ABOUT USE OF THE PLOTS

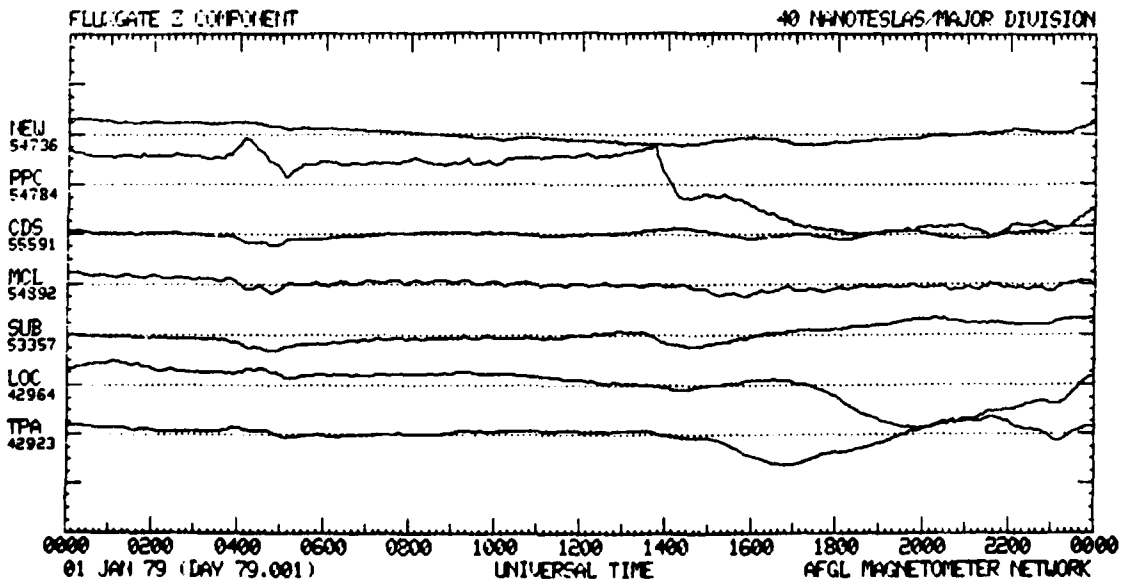
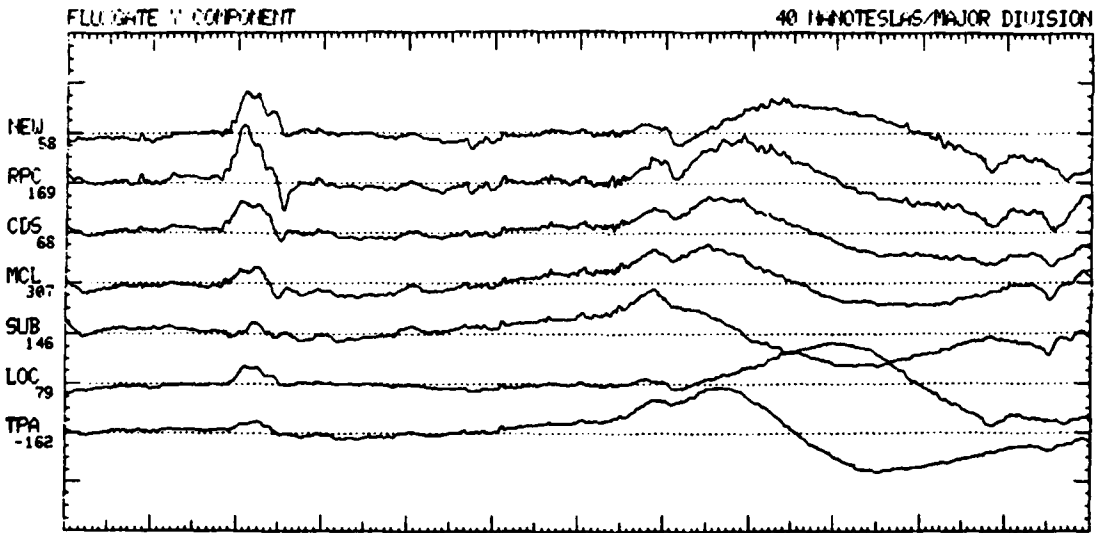
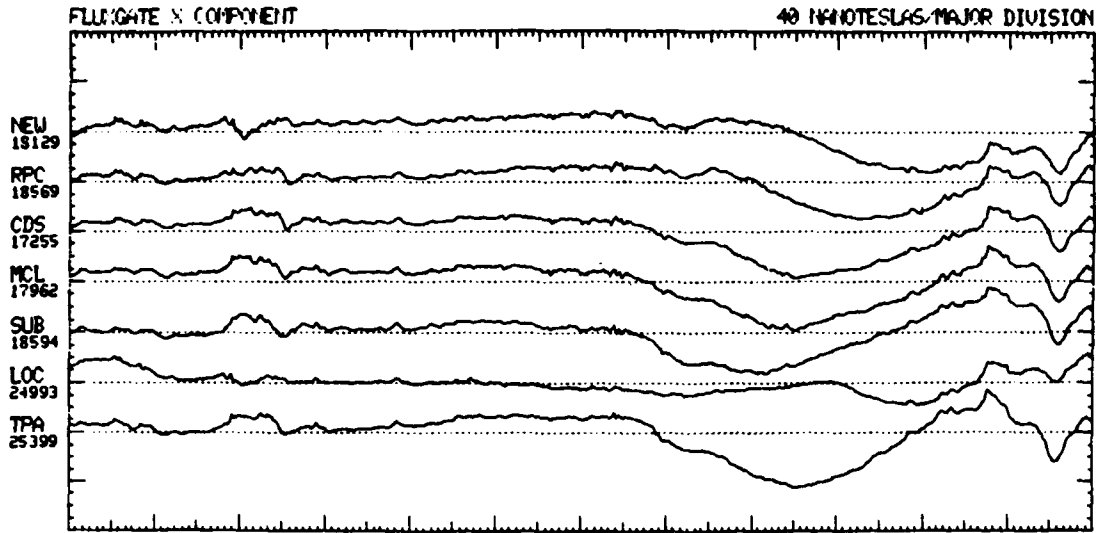
The following brief comment on some common faults in the data may be useful. Examples are given by a reference in parentheses to a plot which exhibits the particular fault described.

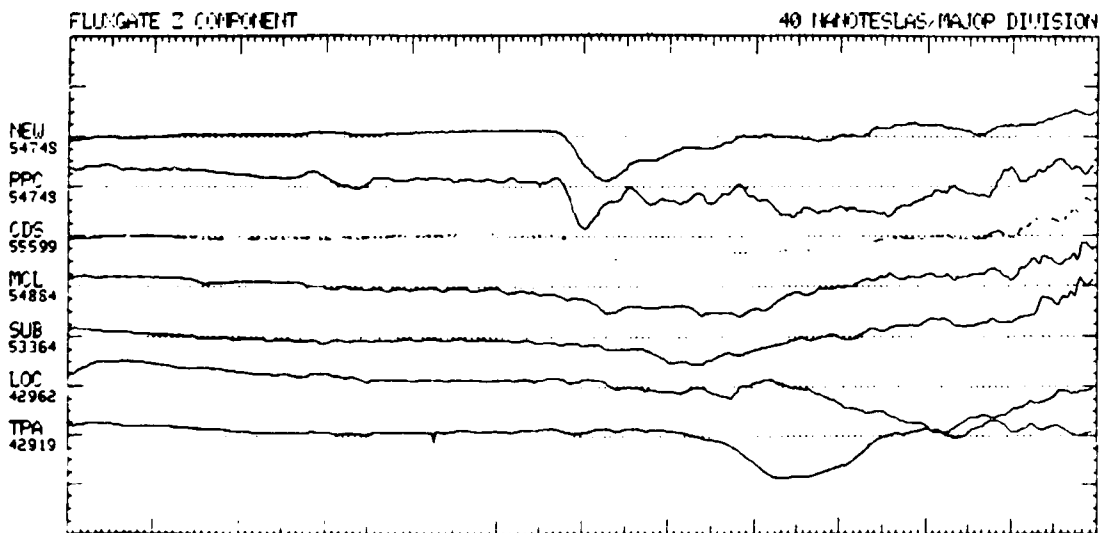
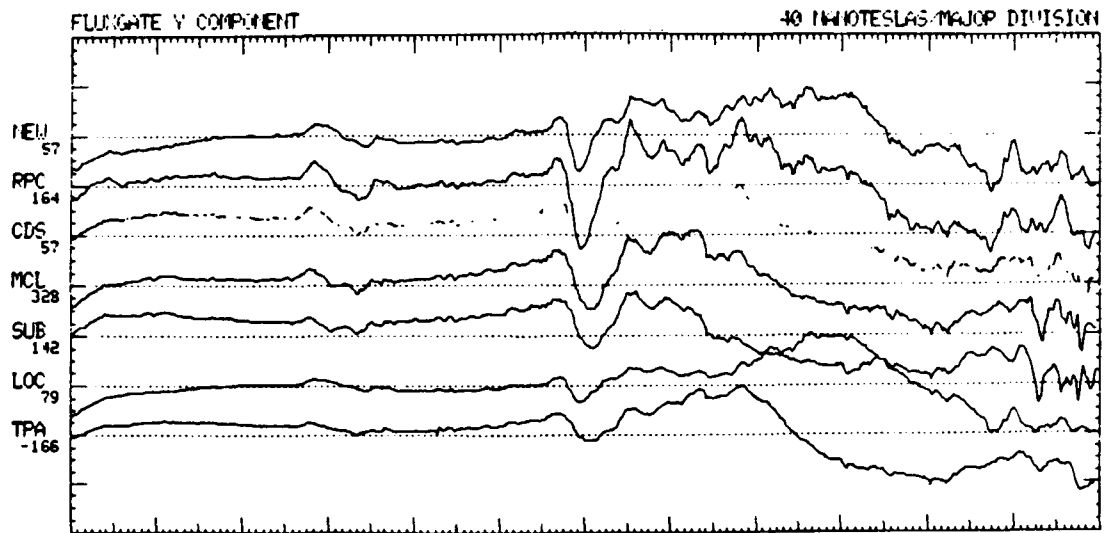
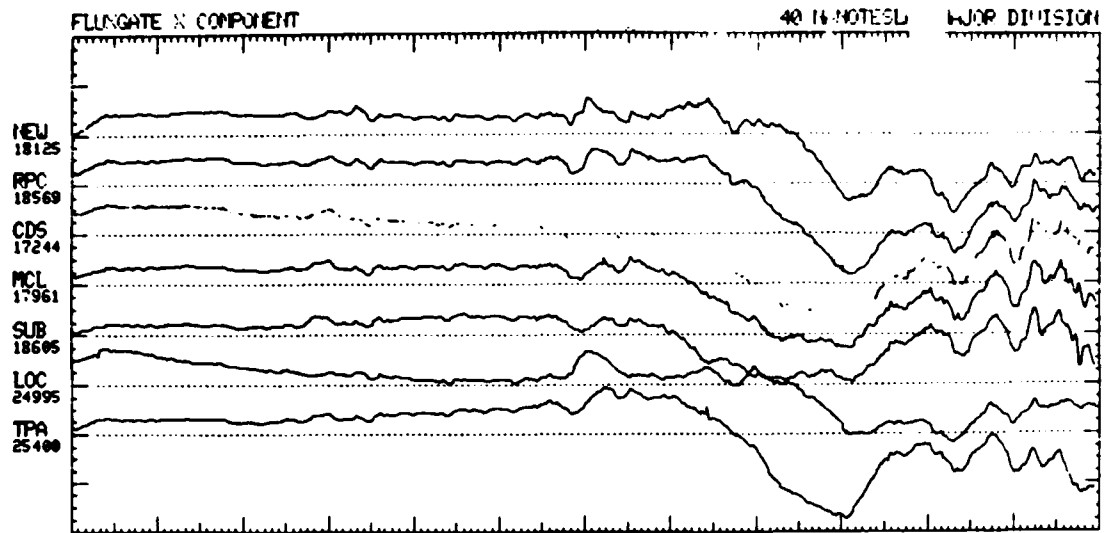
Two problems were caused by the plotting equipment: (1) Some trace labels are occasionally shifted into the middle of a panel, to the right of their proper location (04 January). This problem was ignored because it was not easy to cure and caused no serious harm. (2) The least significant digit of the baseline value for a trace is occasionally omitted (TPA-X trace, 11 January). Since baseline values are all right-justified, the absence of the final digit can be seen, but the value will be uncertain by 5 nT. Again, the harm caused was not enough to justify the cost of solving it.

As noted earlier, data from malfunctioning magnetometers were not excluded unless they differed greatly from expected values. Usually, the integrity of the data can be adequately assessed by comparing any trace with those of adjacent stations and by observing its behavior over an extended interval. Five common malfunctions are these: (1) An instrument which does not change range properly may exhibit sudden positive or negative jumps of 64 nT, the amount of one coarse-scale step (TPA-X trace, 17 February). (2) Some failures, such as a data-system bit that fails to turn on or off, cause smaller jumps (note the jumps of about 16 nT in the TPA-Y trace, 17 January). (3) Some failures cause a trace to exhibit noise which may be large (TPA-X trace, 10 June) or small (SUB-Z trace, 28-29 May). (4) Failure of the fine-scale output causes a trace to show no activity except an occasional range-change jump of 64 nT (all RPC traces, 02 February). (5) Failure of the temperature-compensating circuitry makes the output very dependent on electronics temperature; the trace will then reflect the regular cycles of the thermostatically controlled trailer temperature (MCL-Z trace, 21-22 January). (6) Other severe malfunctions can cause wild drifting (RPC-Z trace, 11 and 13 January), large noise spikes (NEW-Z trace, 04 January), or bursts (TPA-Z trace, 08 January). All these faults can normally be detected in the context of the stacked plots.

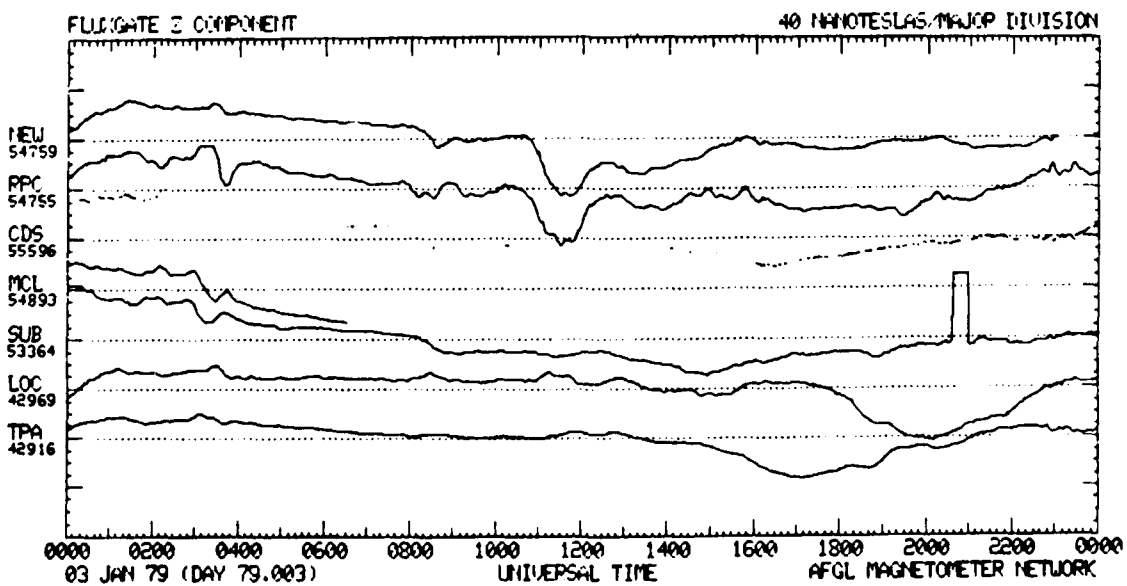
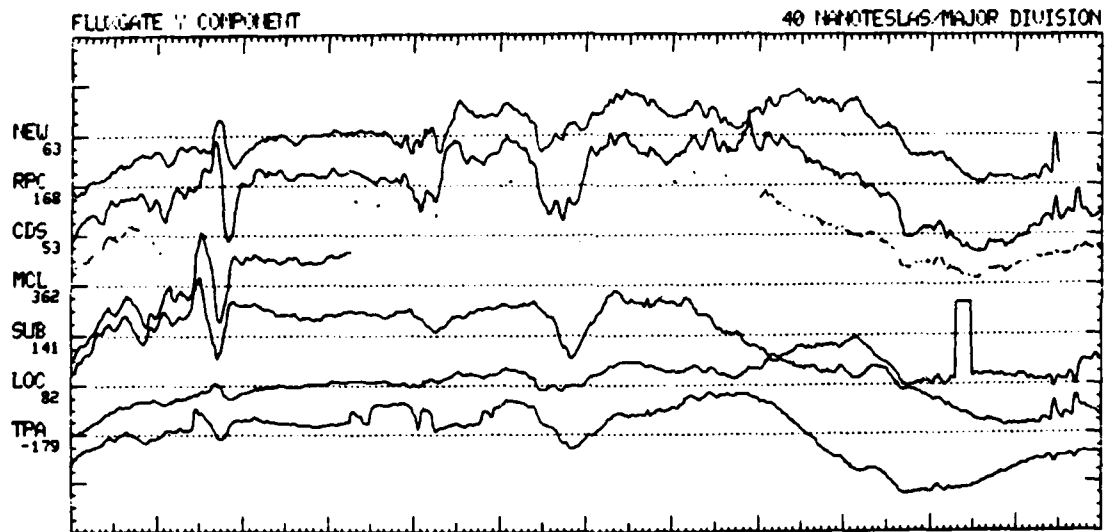
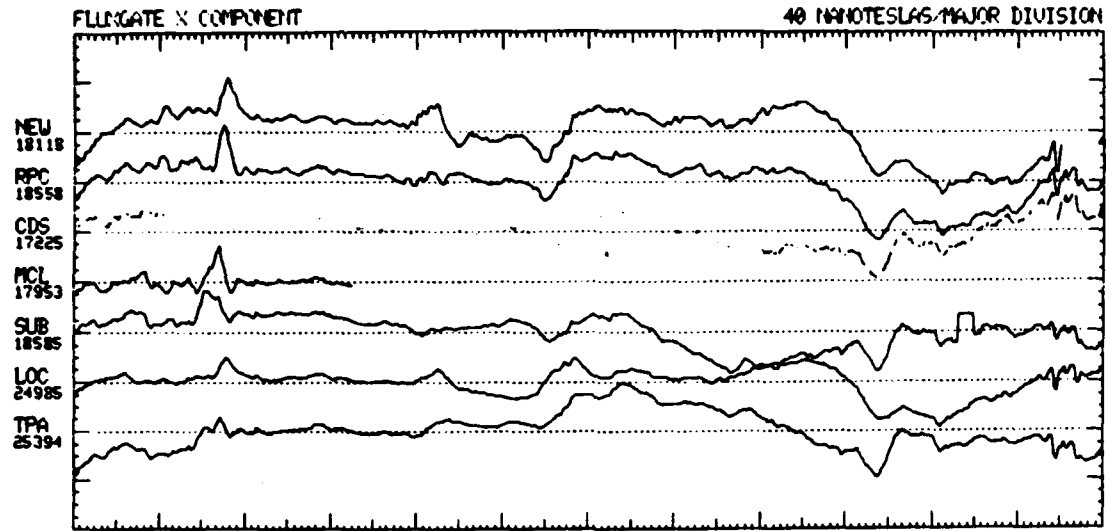
7. BASIC PLOTS AT STANDARD AMPLITUDE

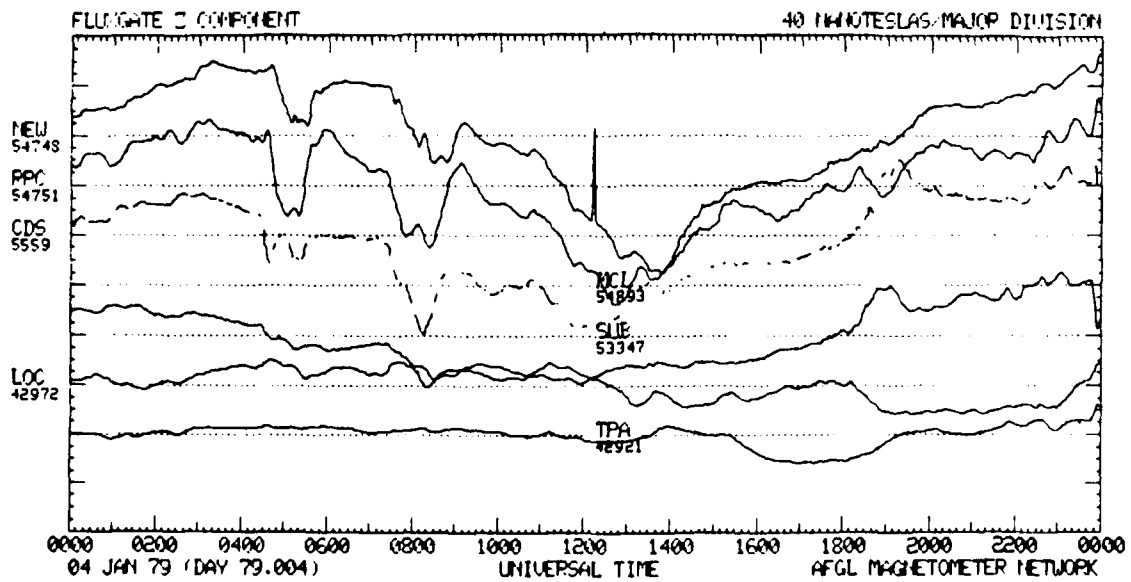
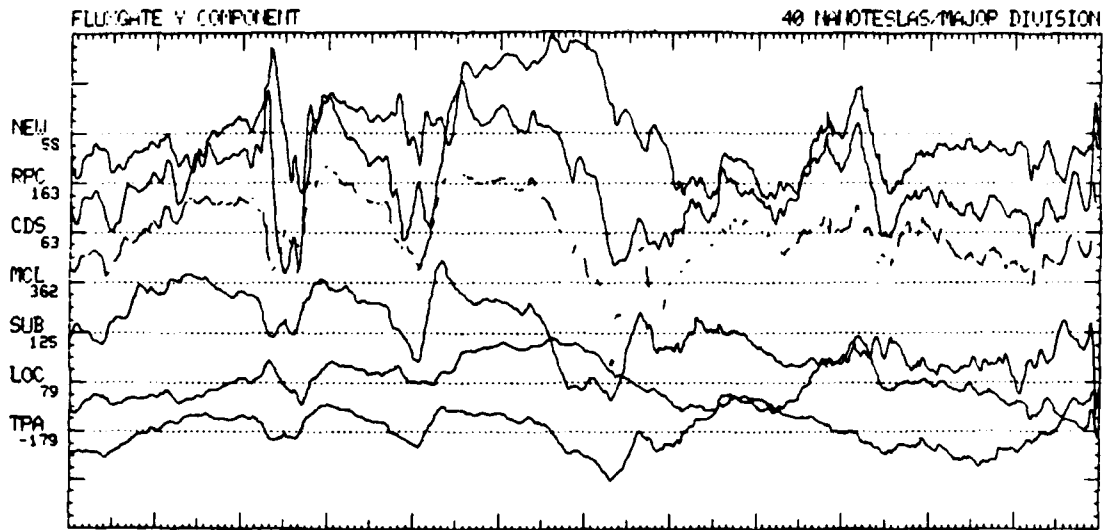
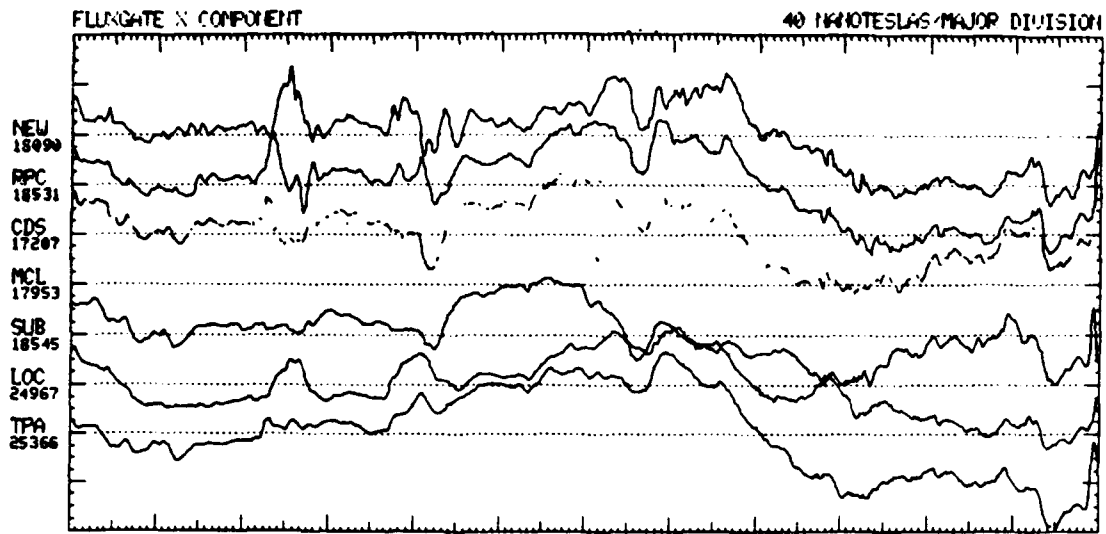
This section presents one stacked-magnetogram plot for each day of 1979, using the standard amplitude scale of 40 nT per major division.

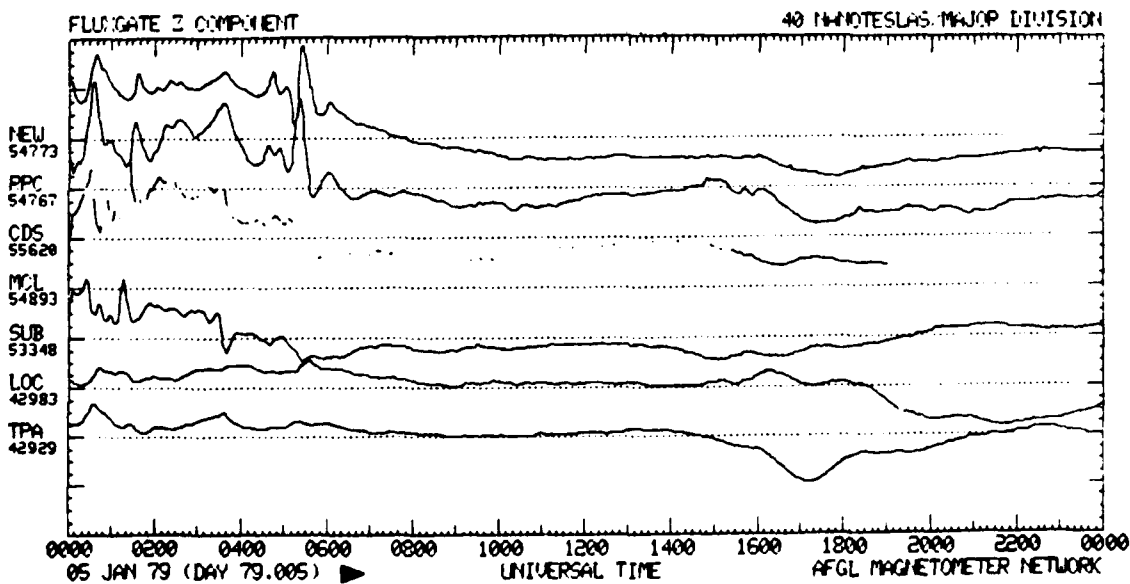
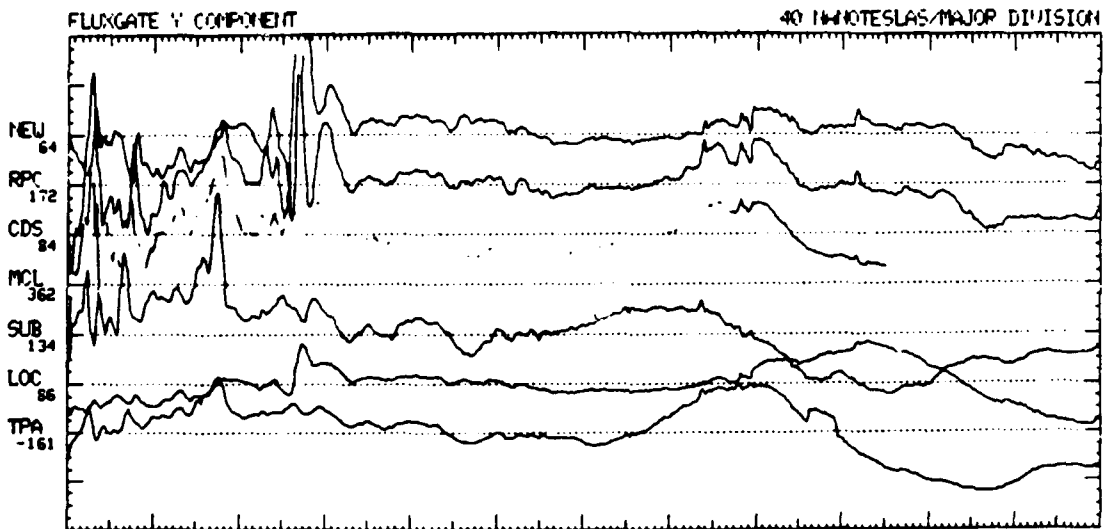
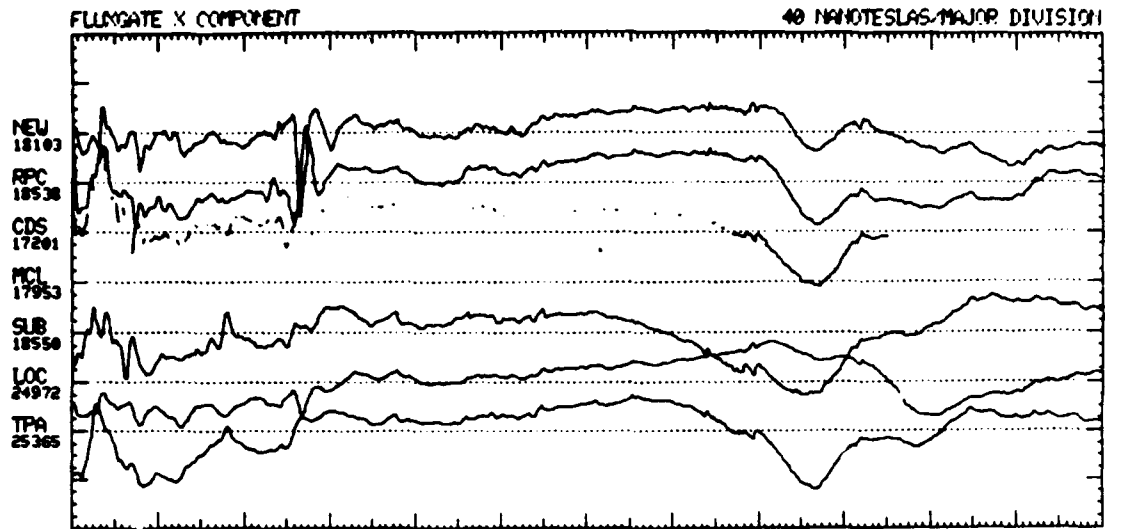


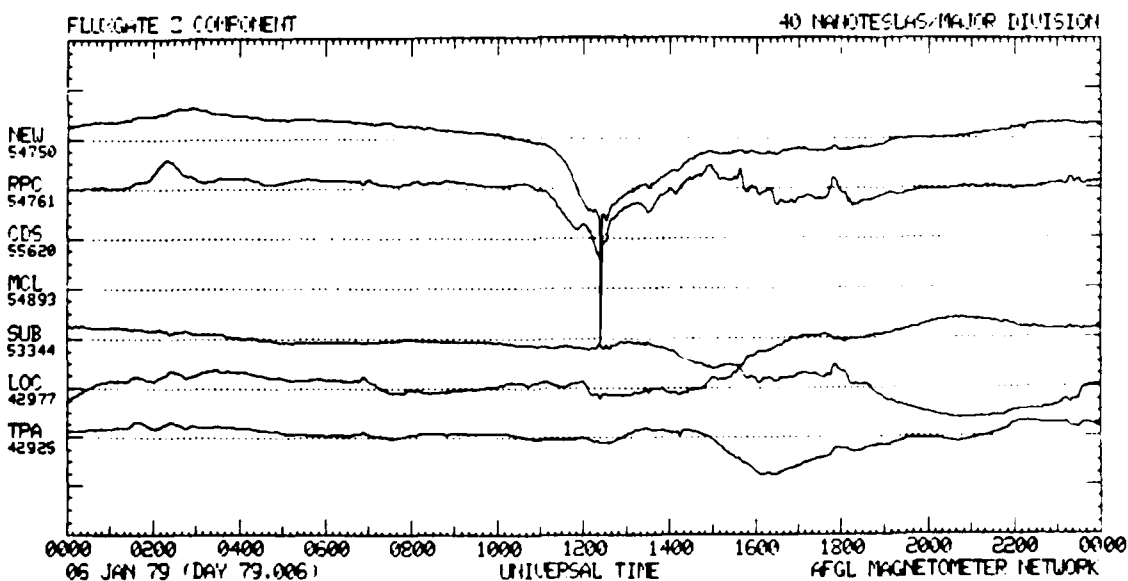
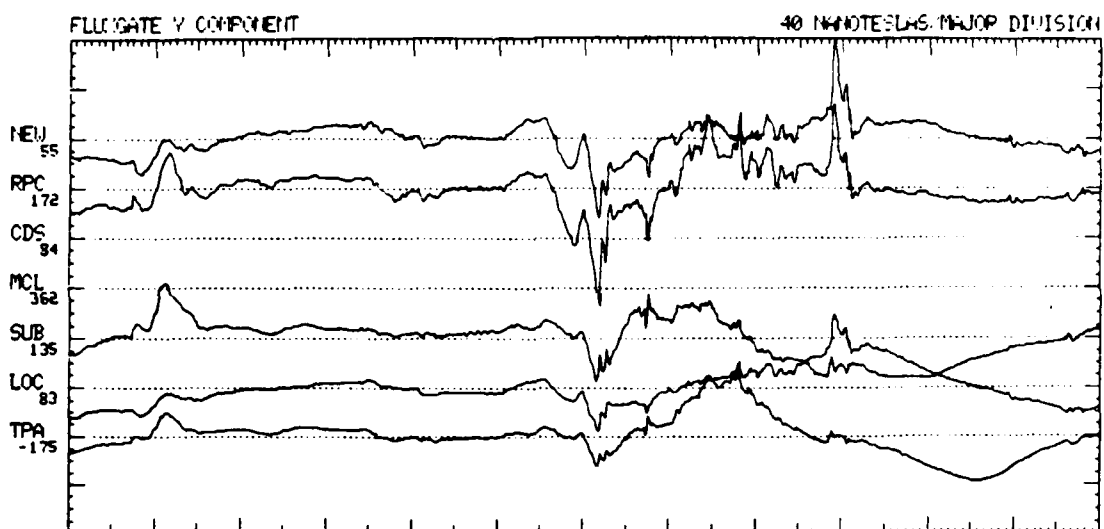
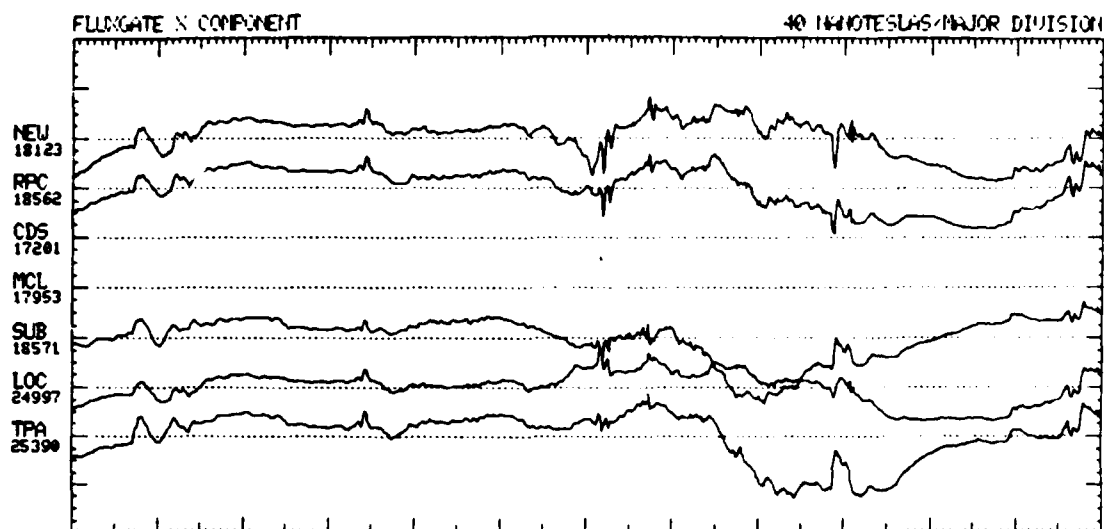


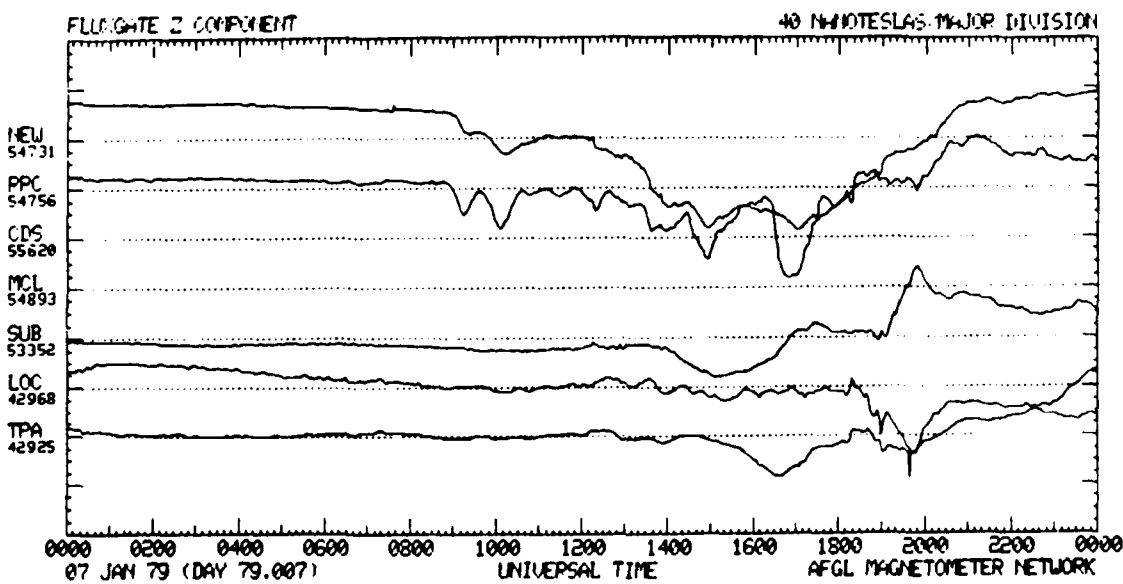
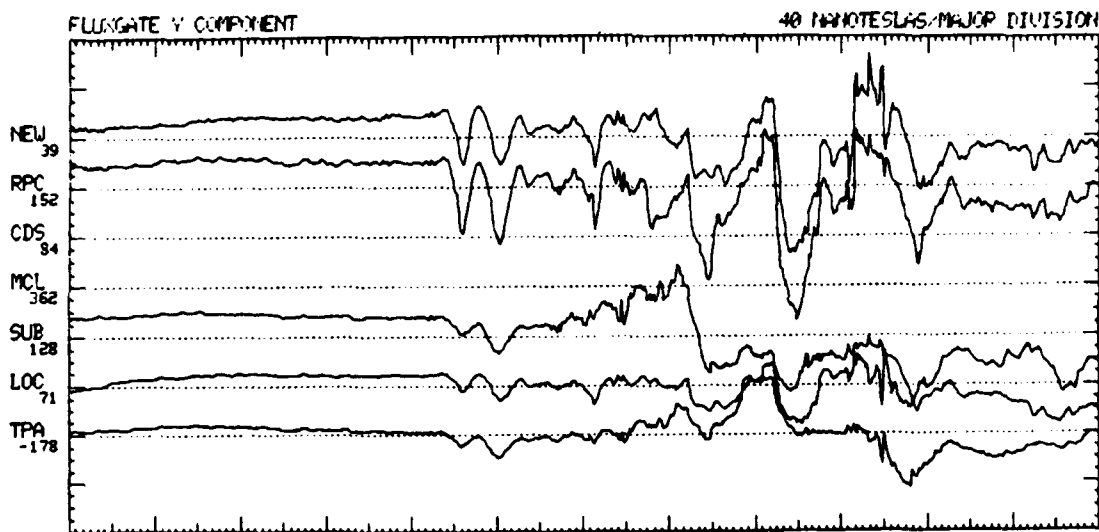
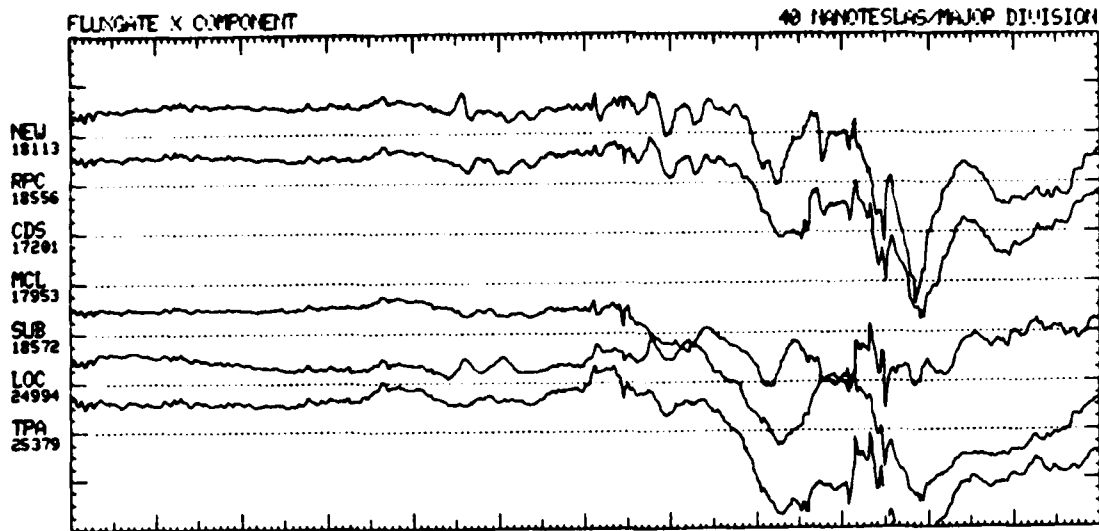
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
02 JAN 79 (DAY 79.002) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

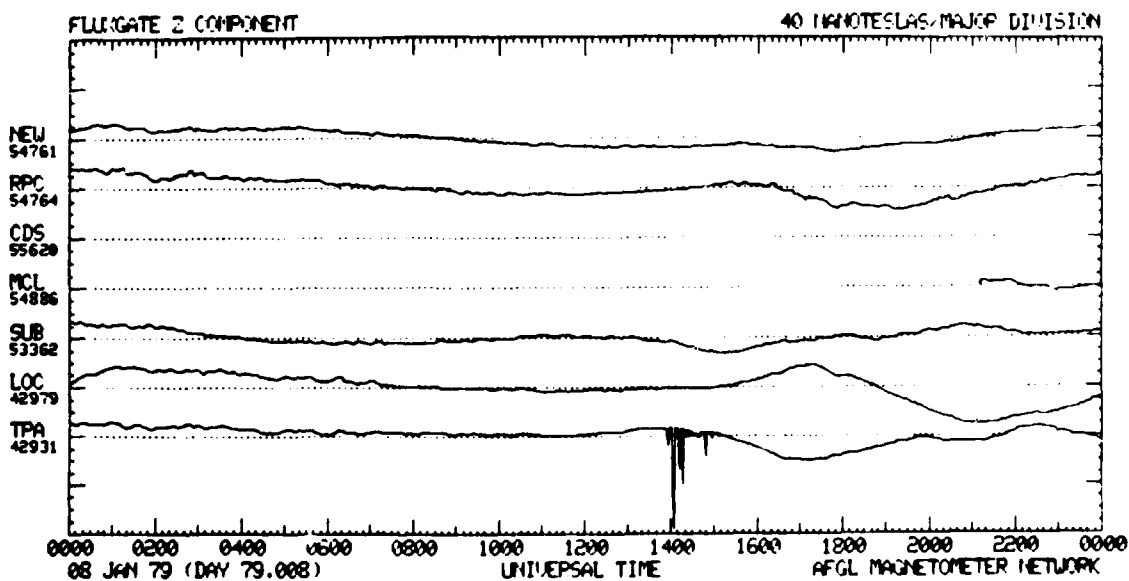
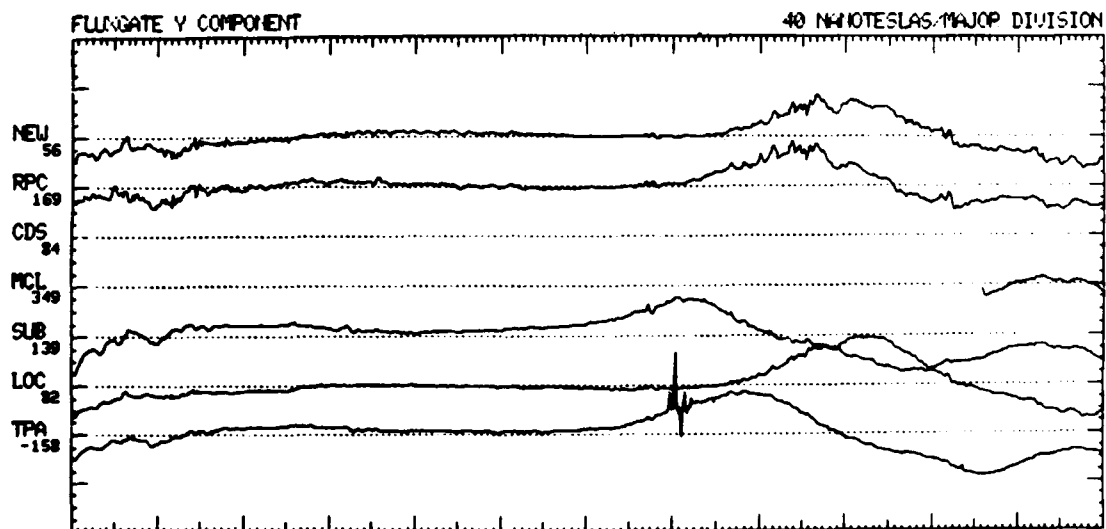
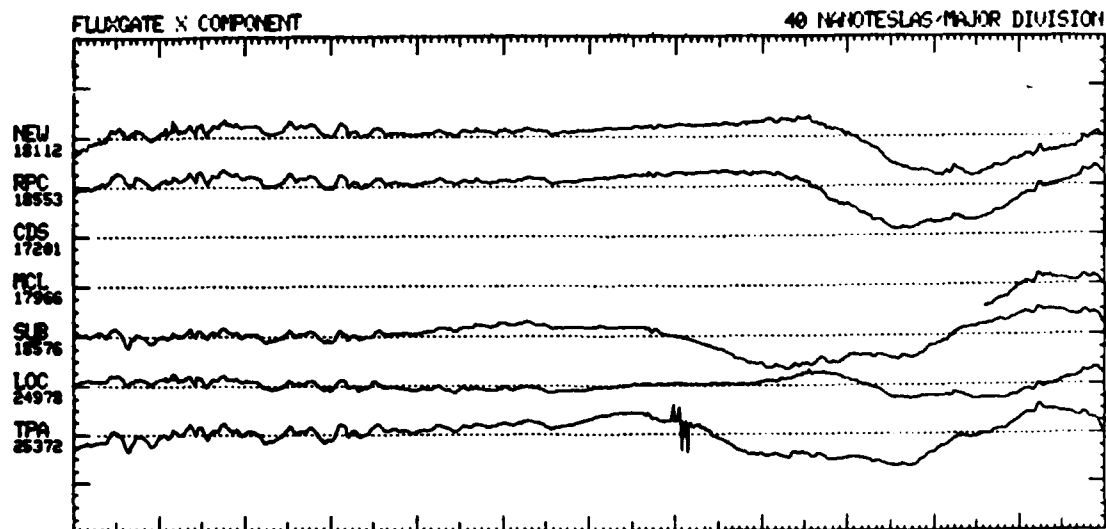


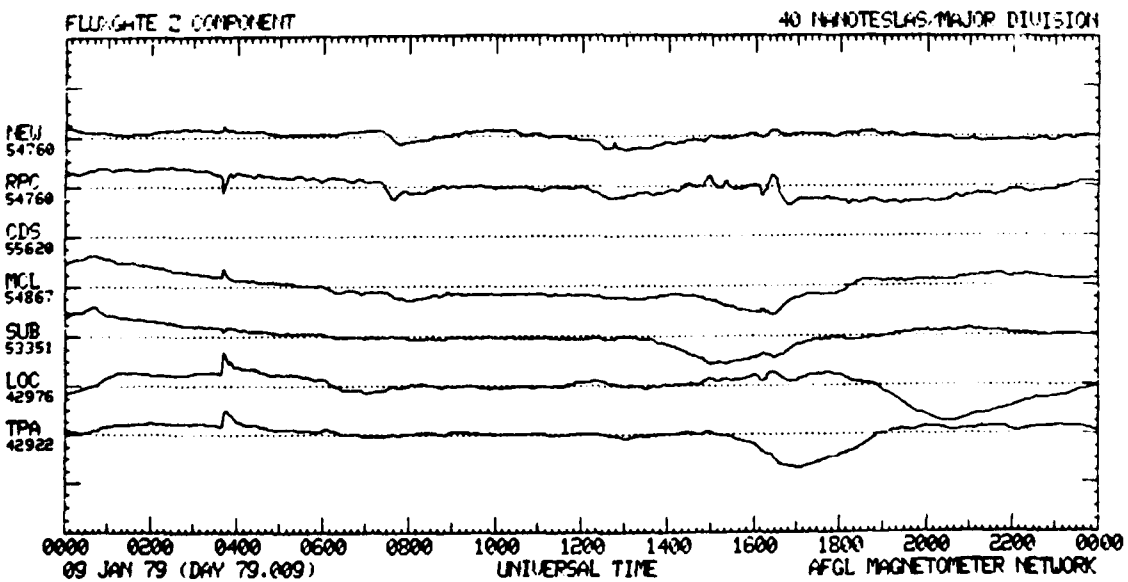
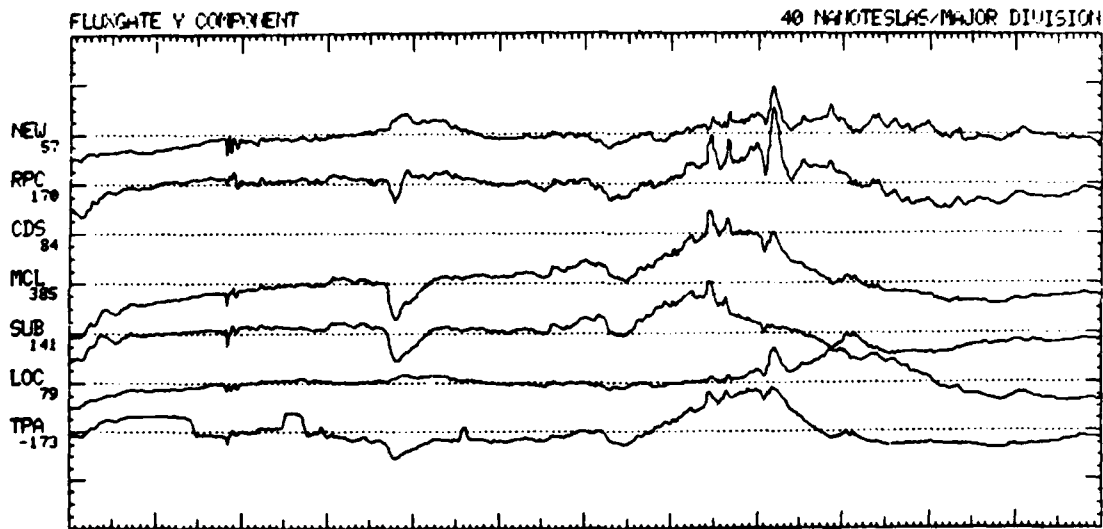
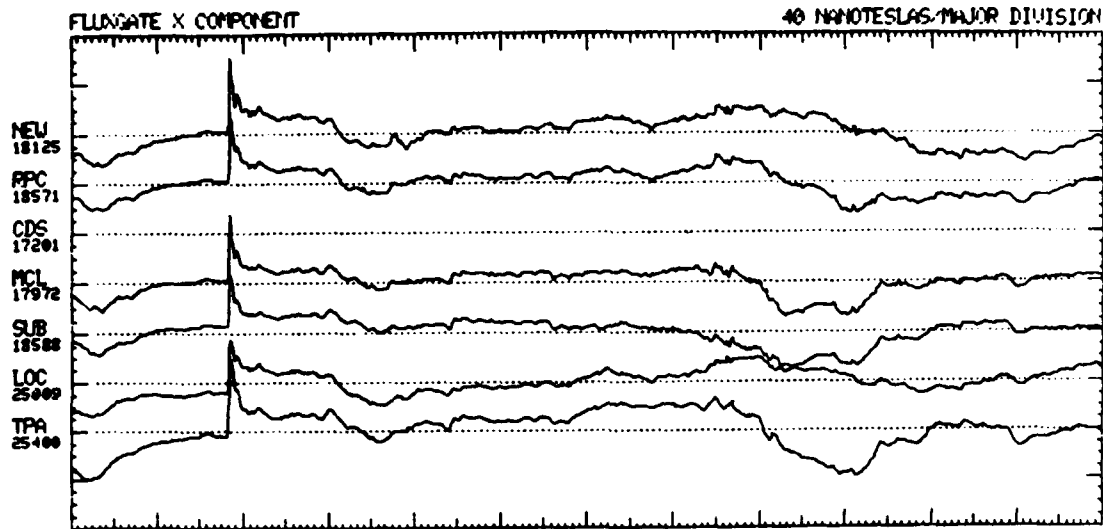


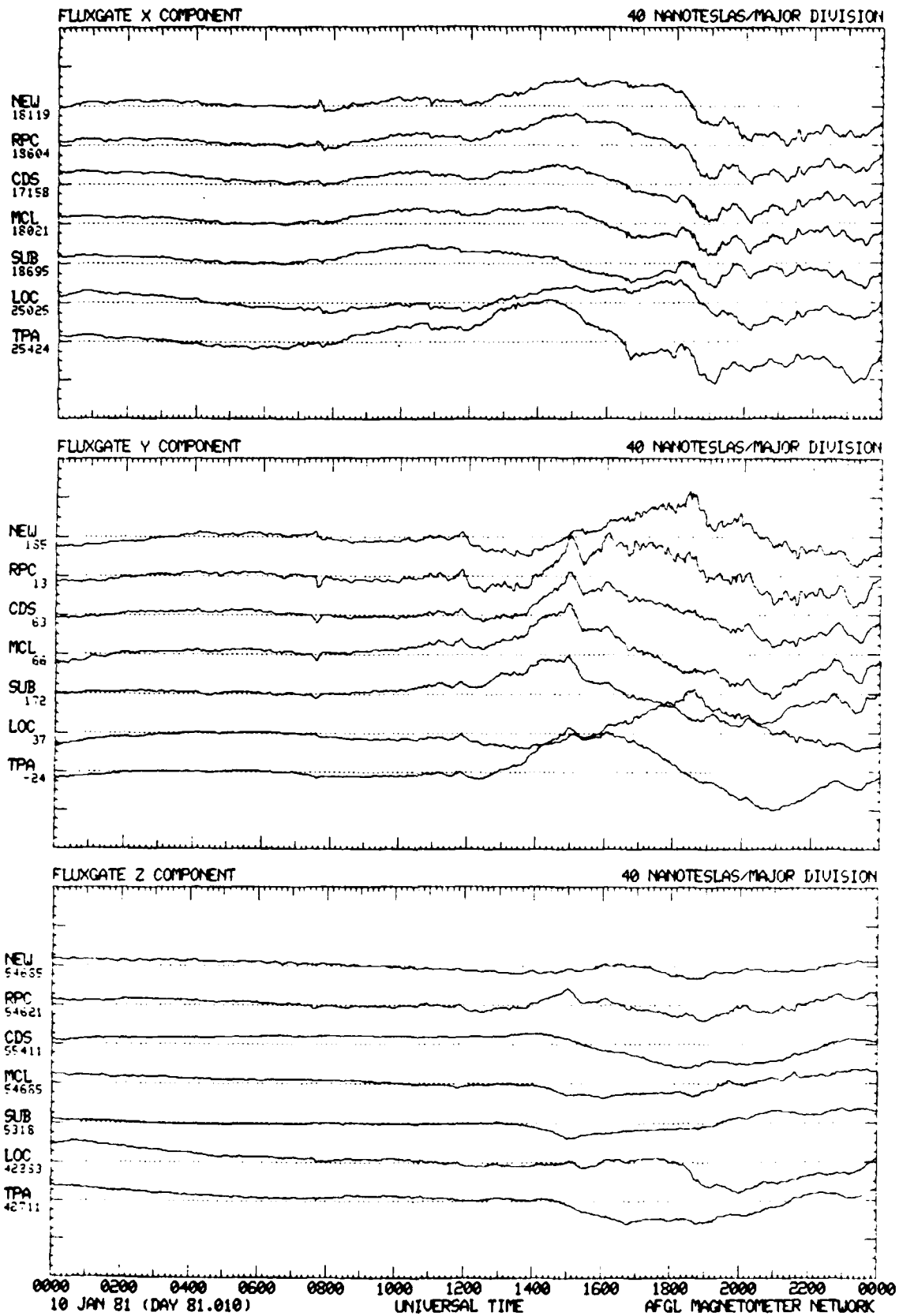


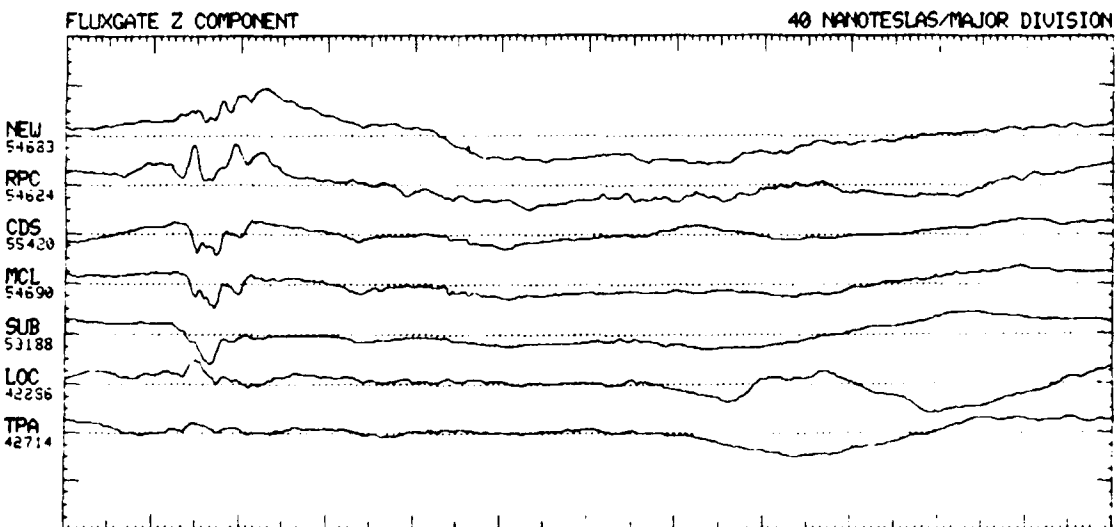
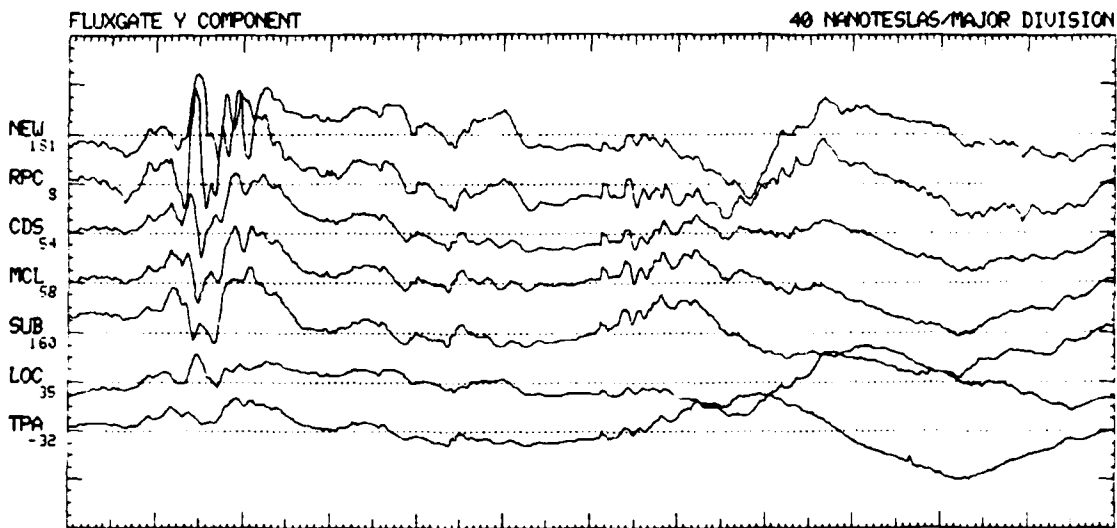
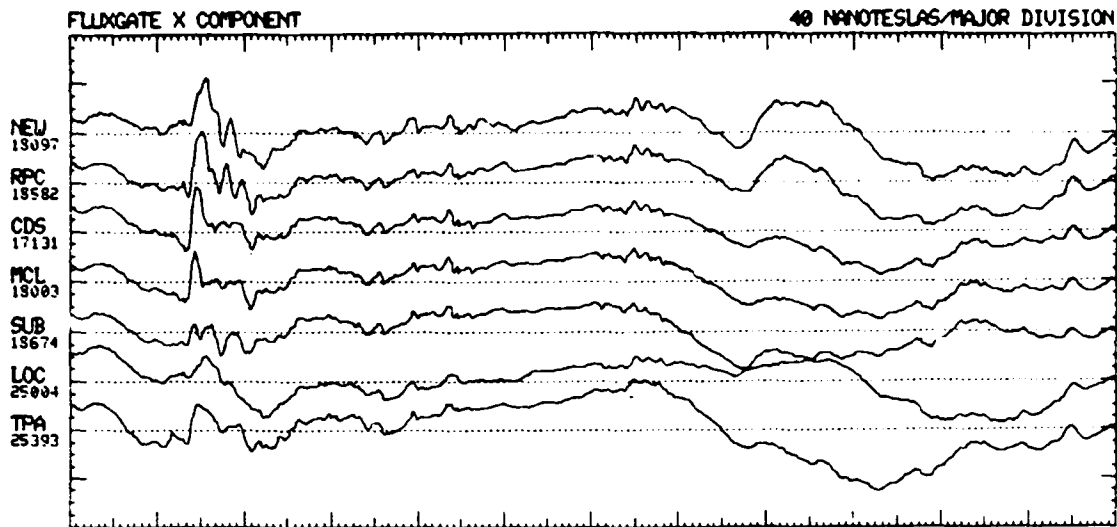




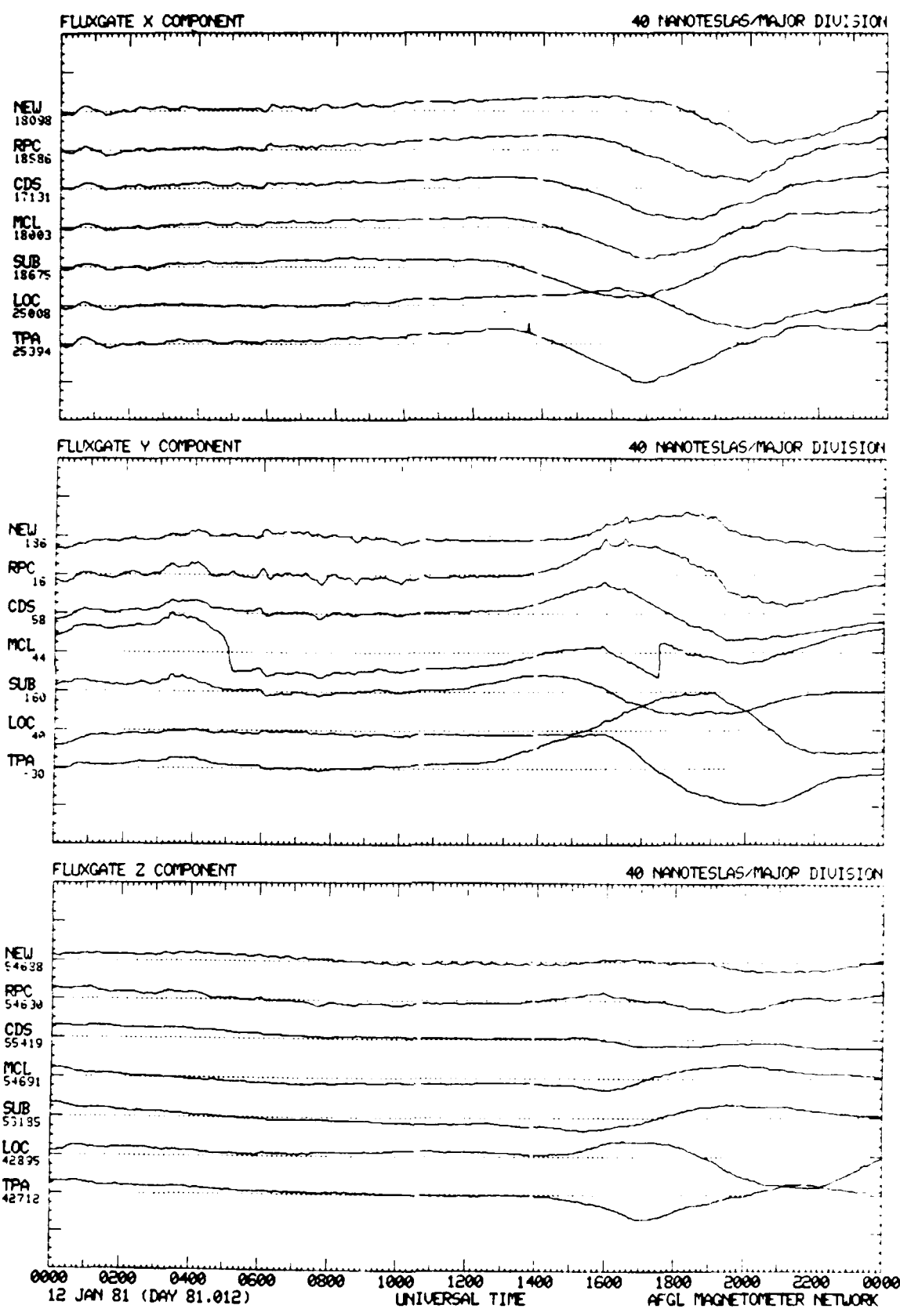






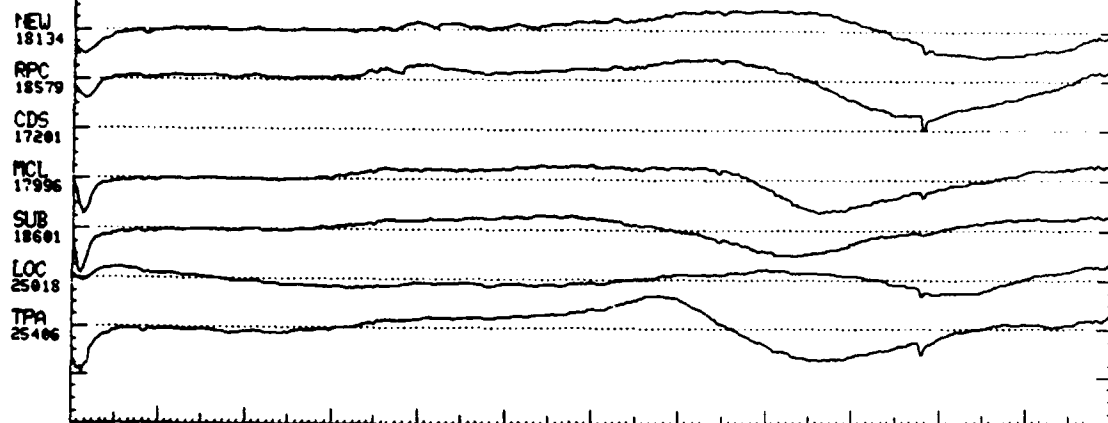


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 11 JAN 81 (DAY 81.011) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



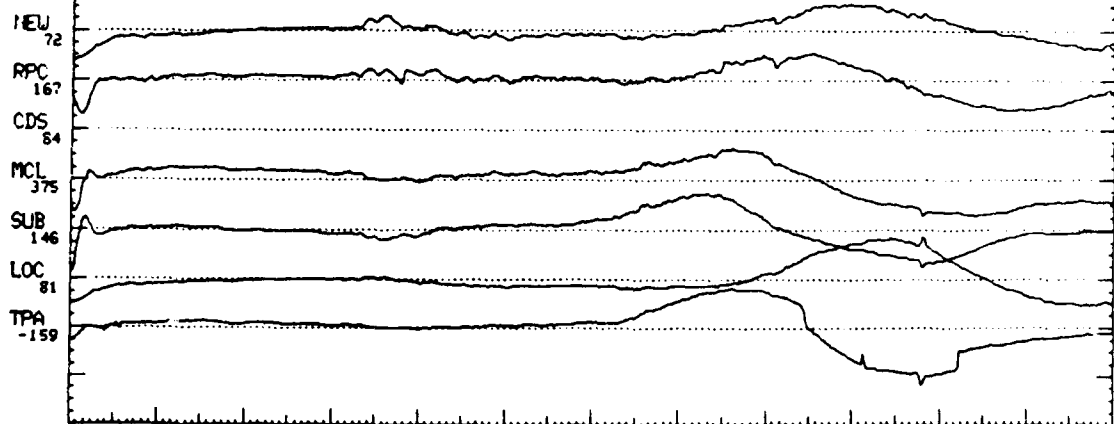
FLURGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



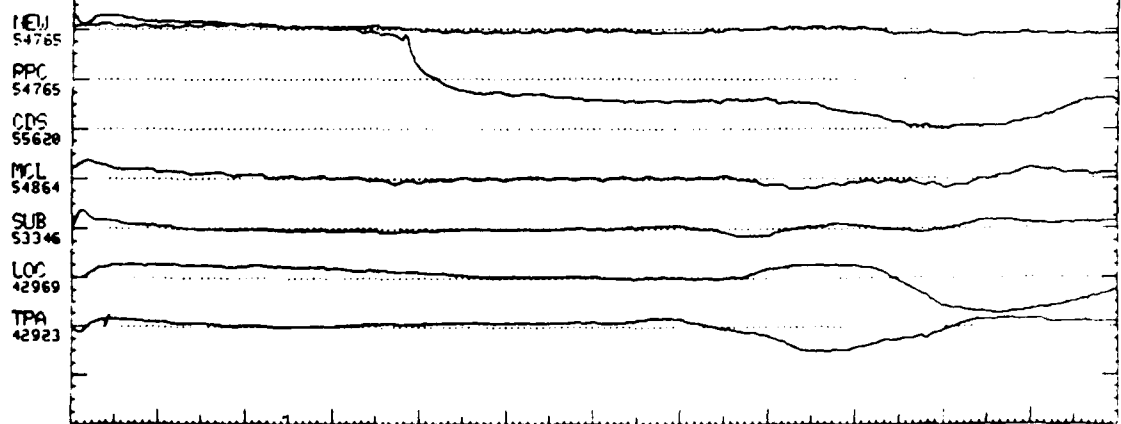
FLURGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

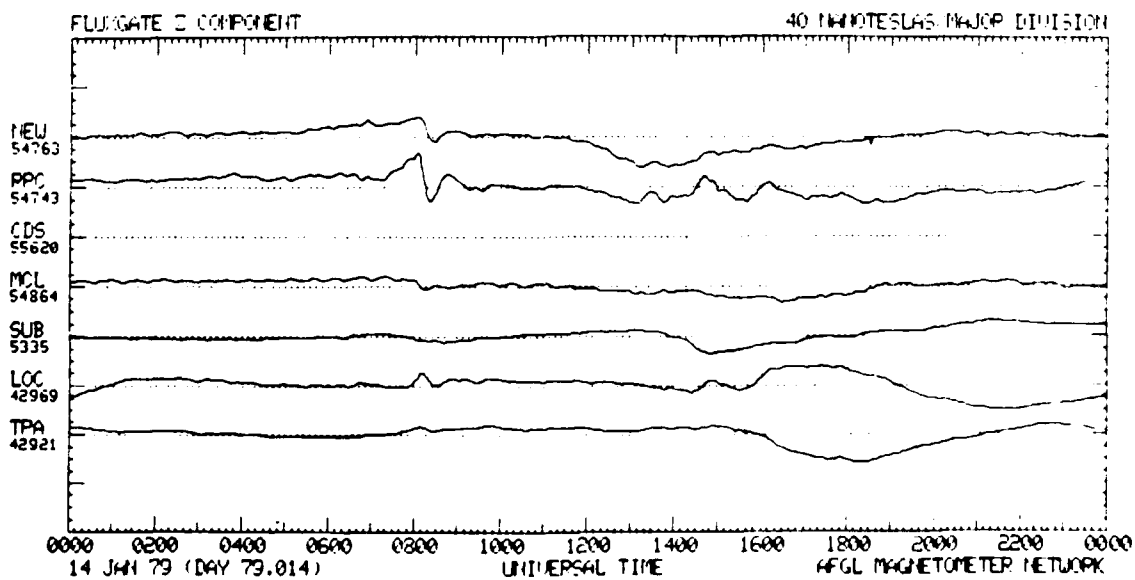
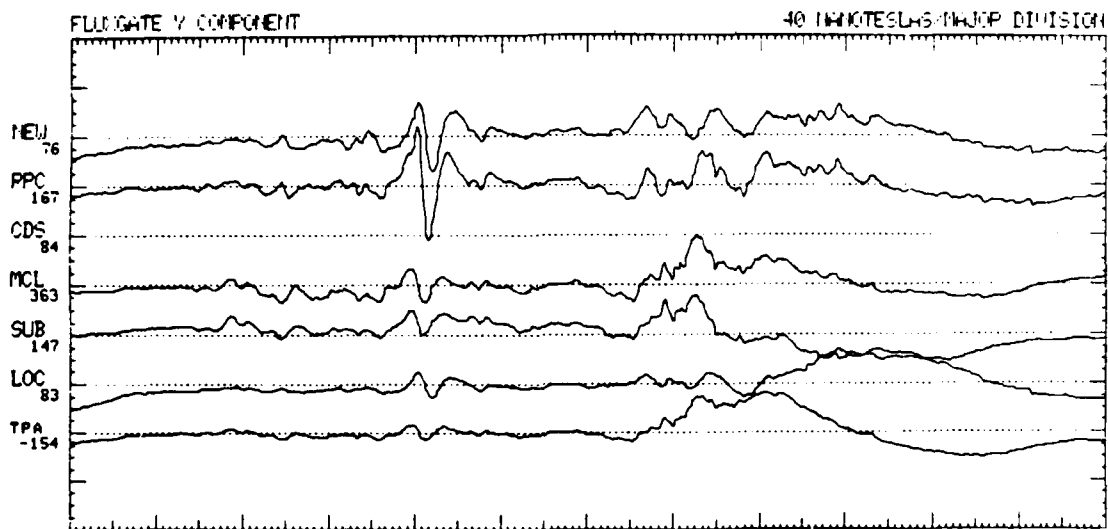
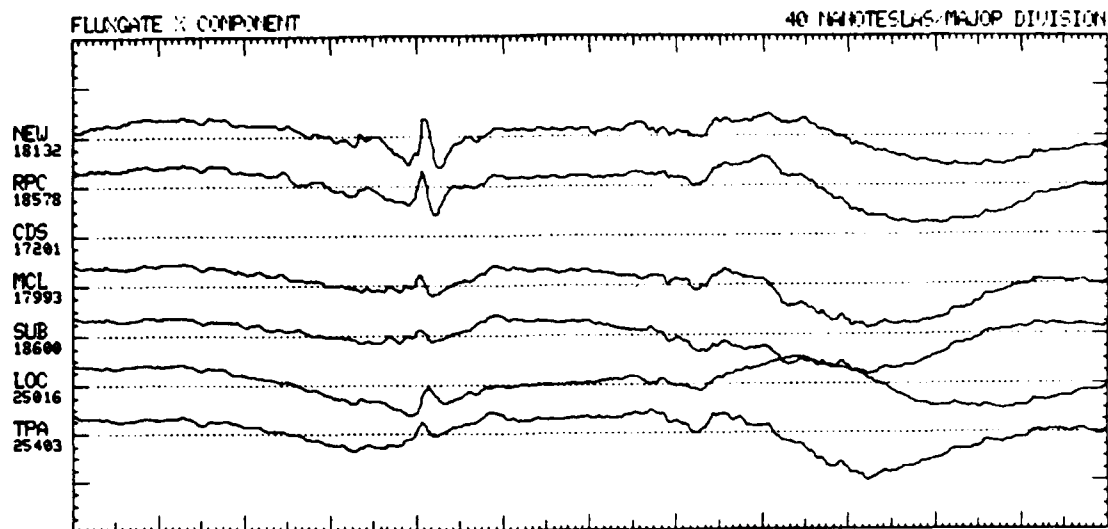


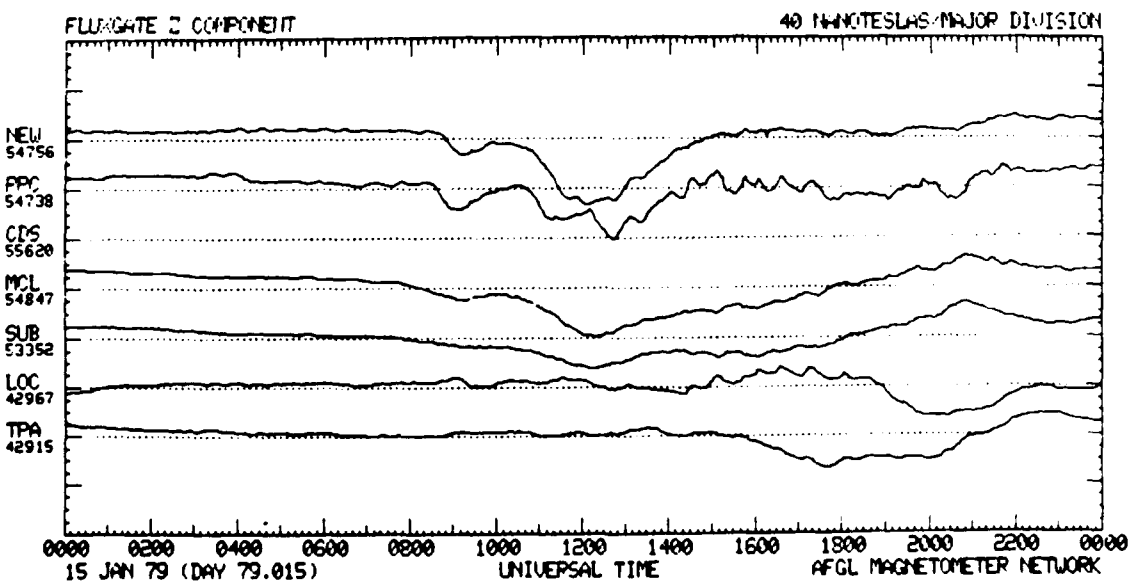
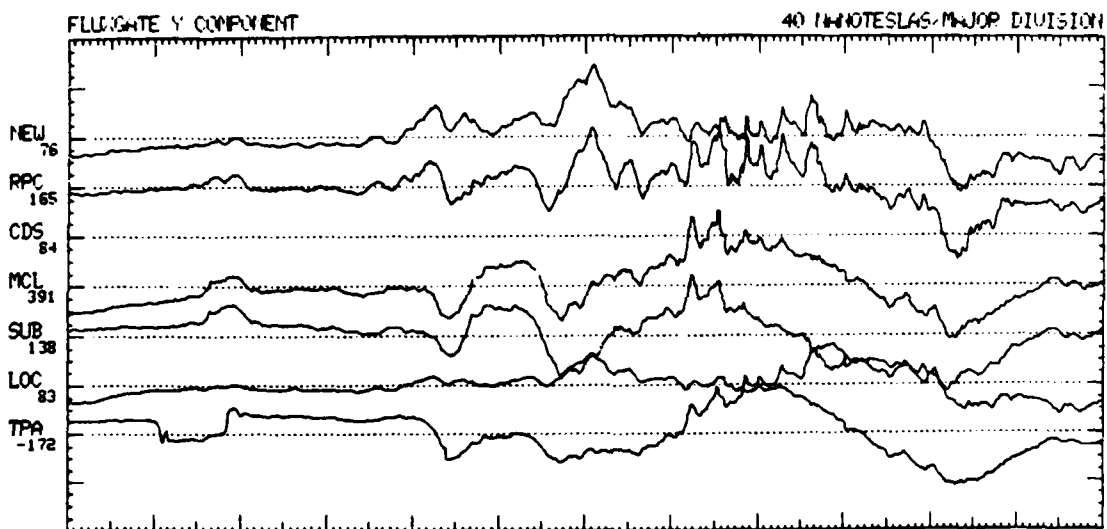
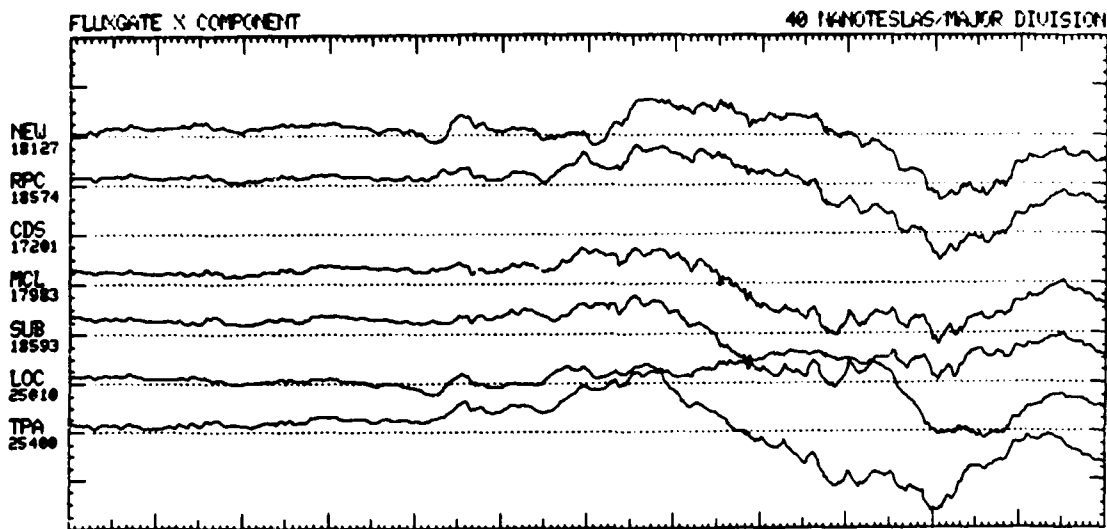
FLURGATE Z COMPONENT

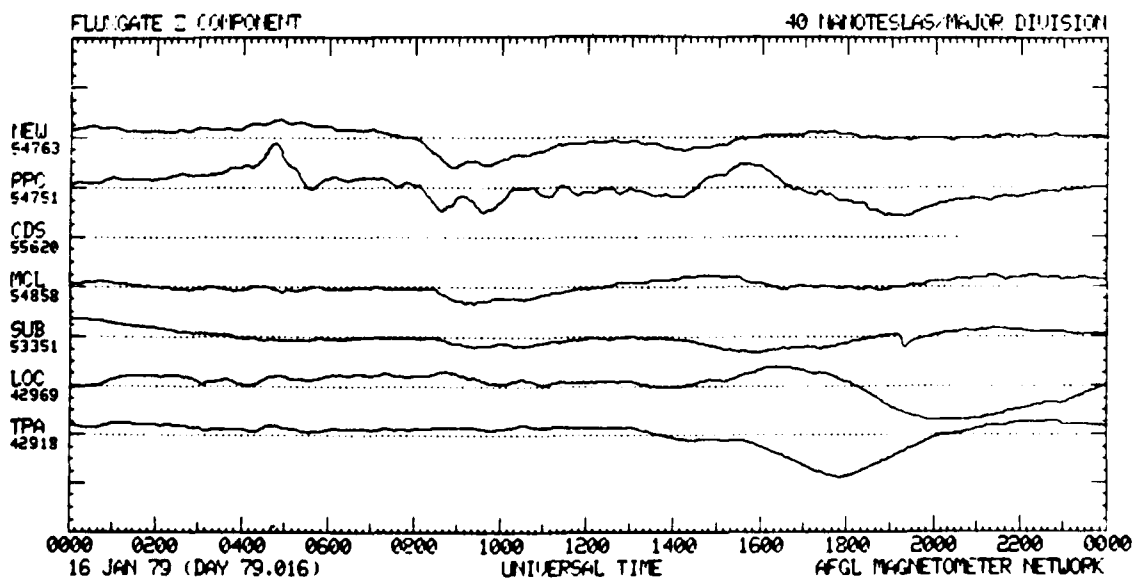
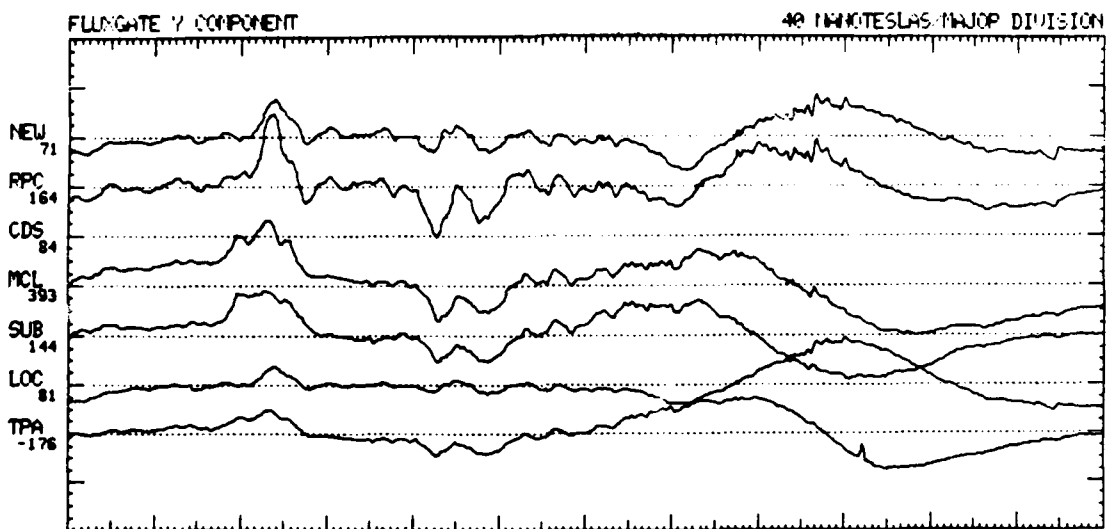
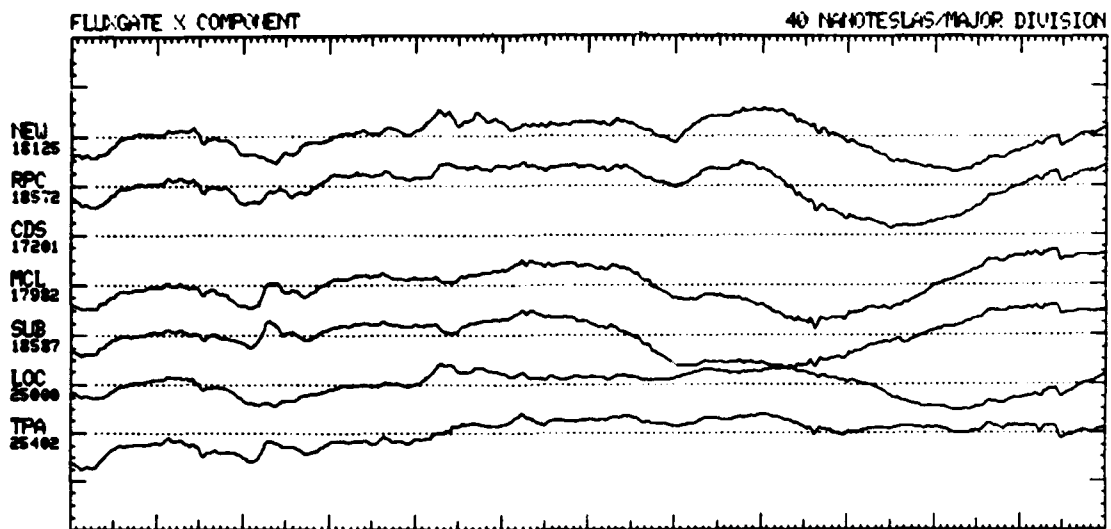
40 NANOTESLAS/MAJOR DIVISION

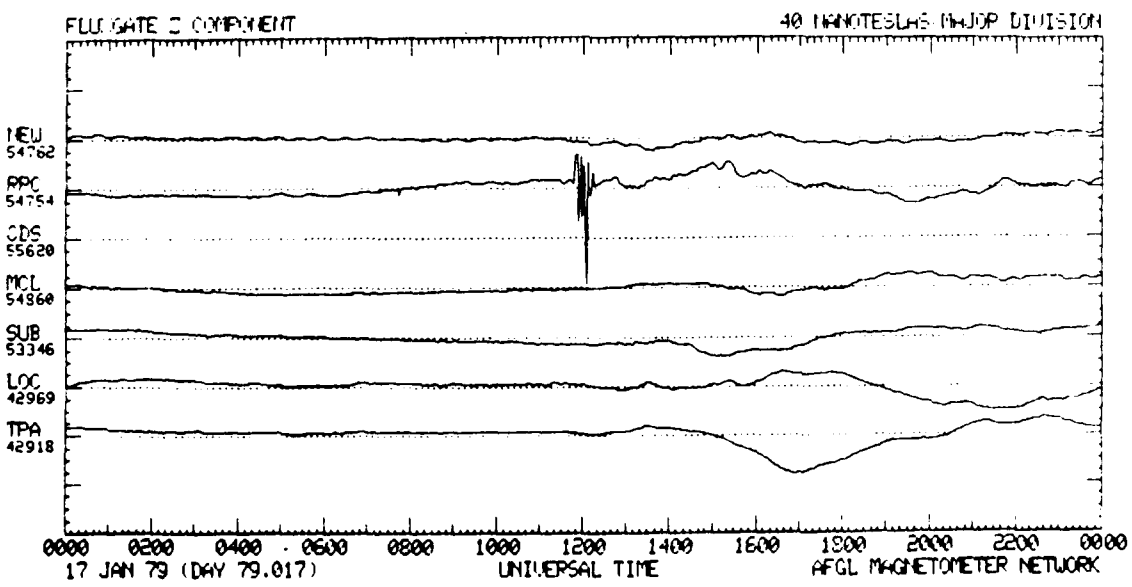
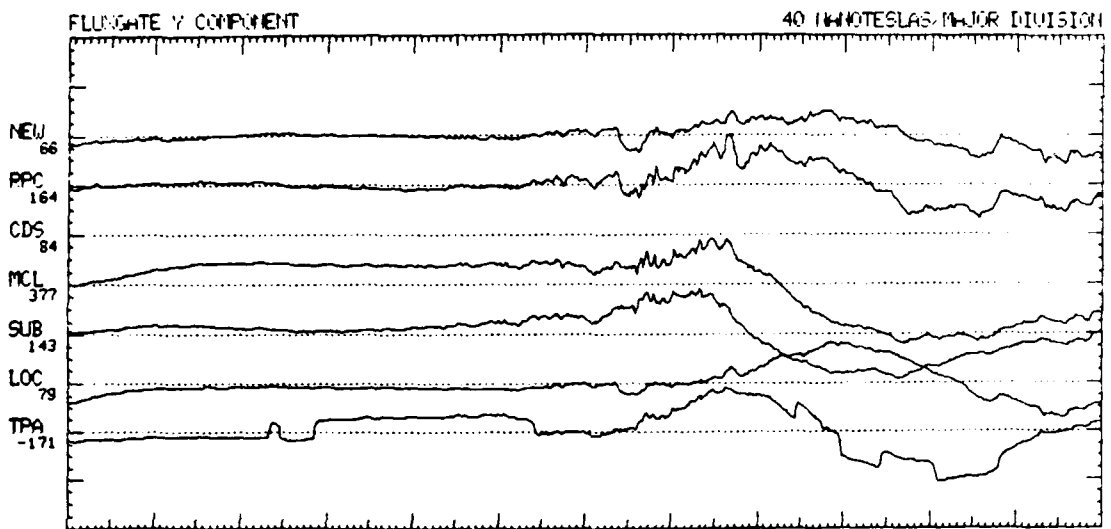
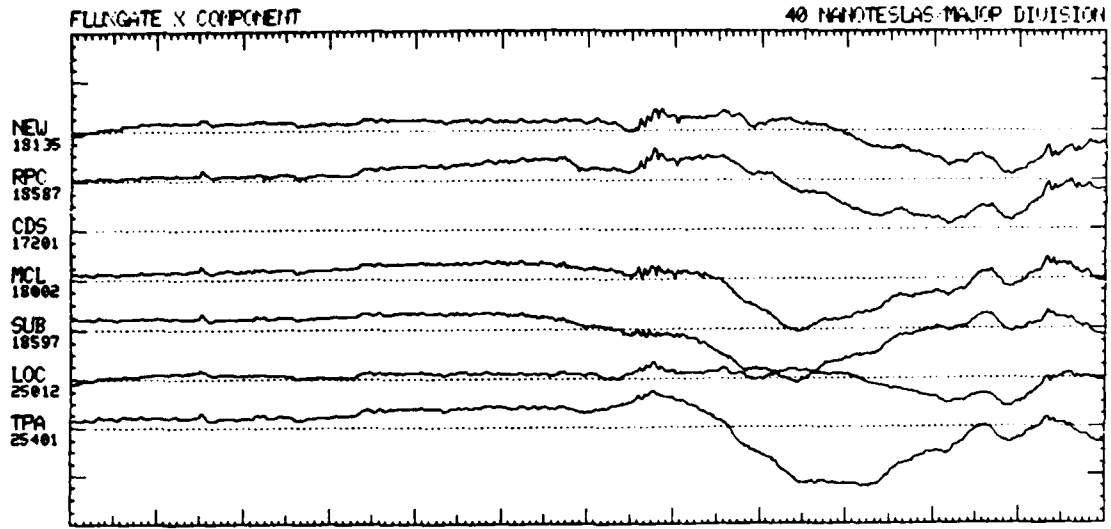


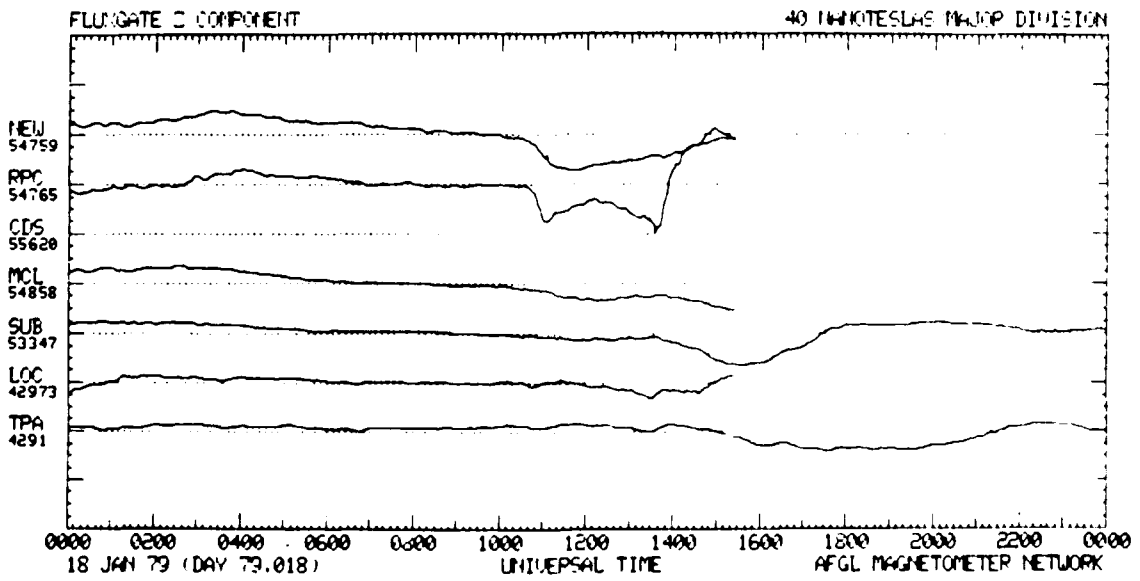
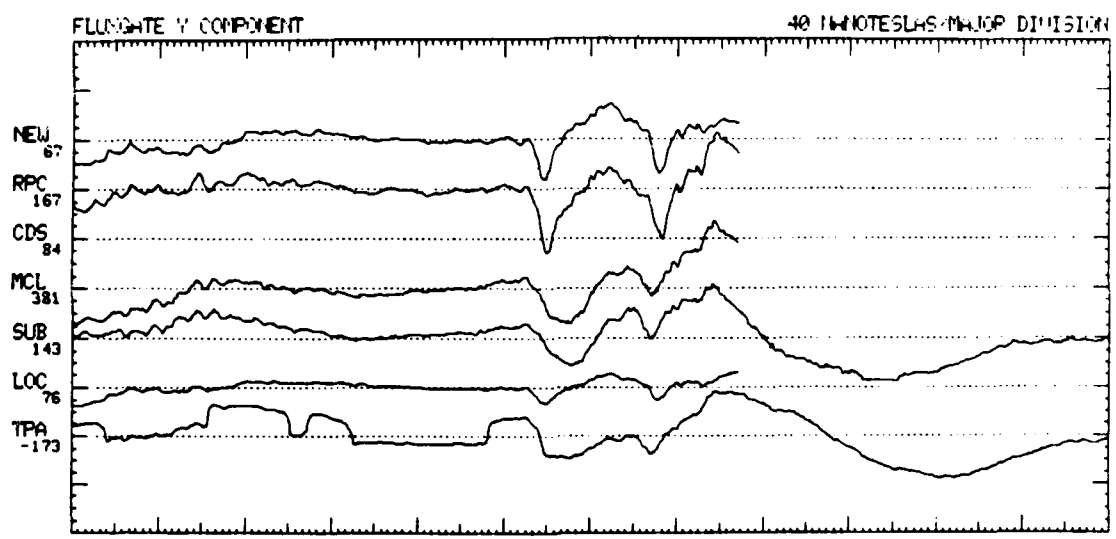
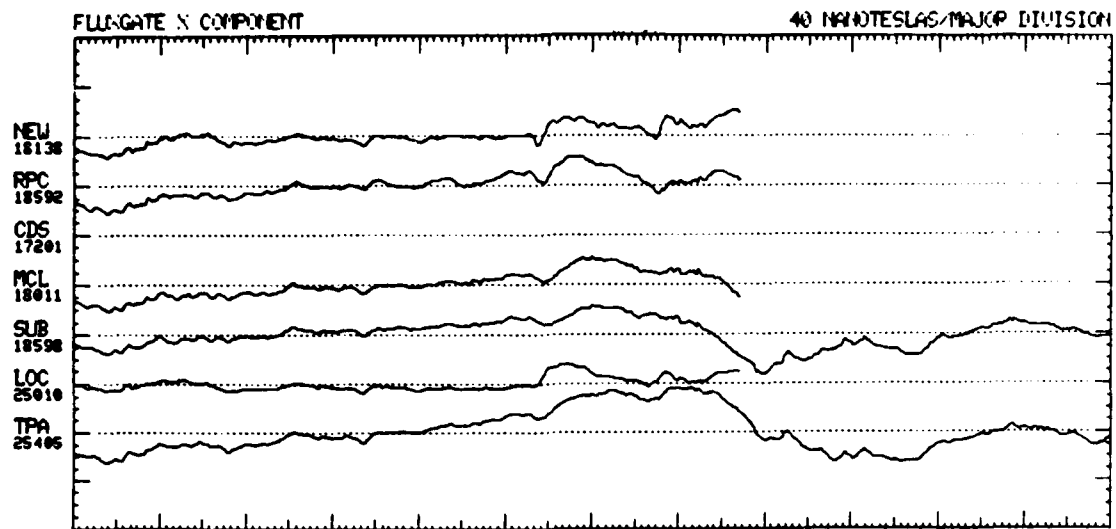
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 JAN 79 (DAY 79.013) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

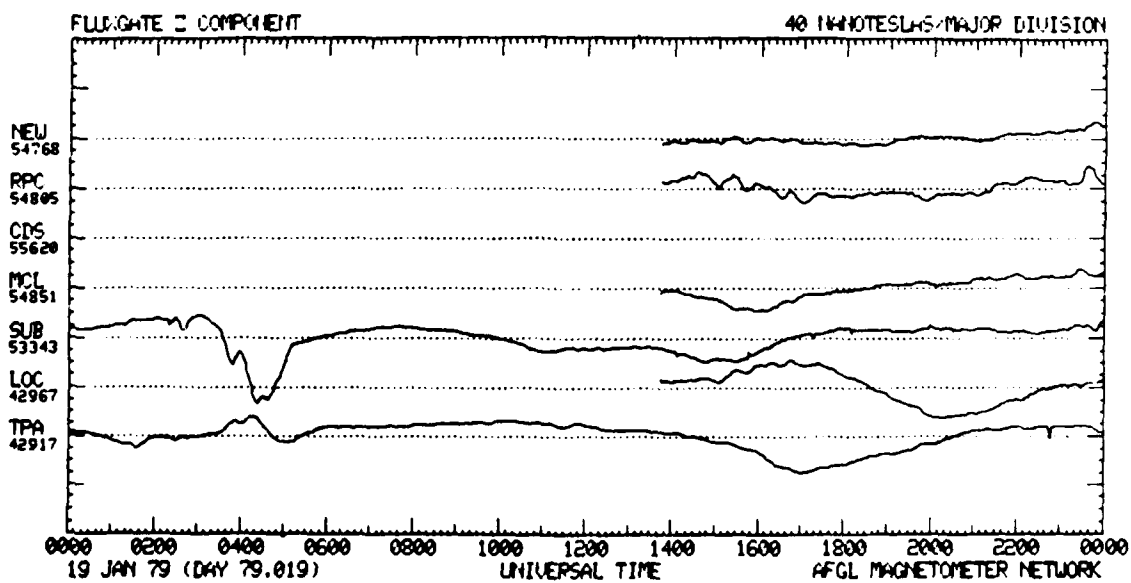
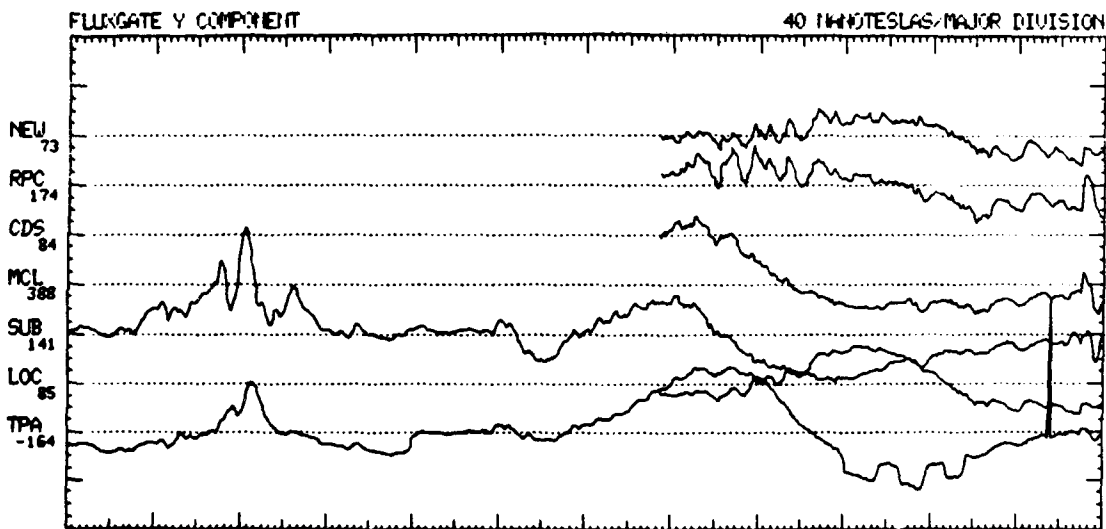
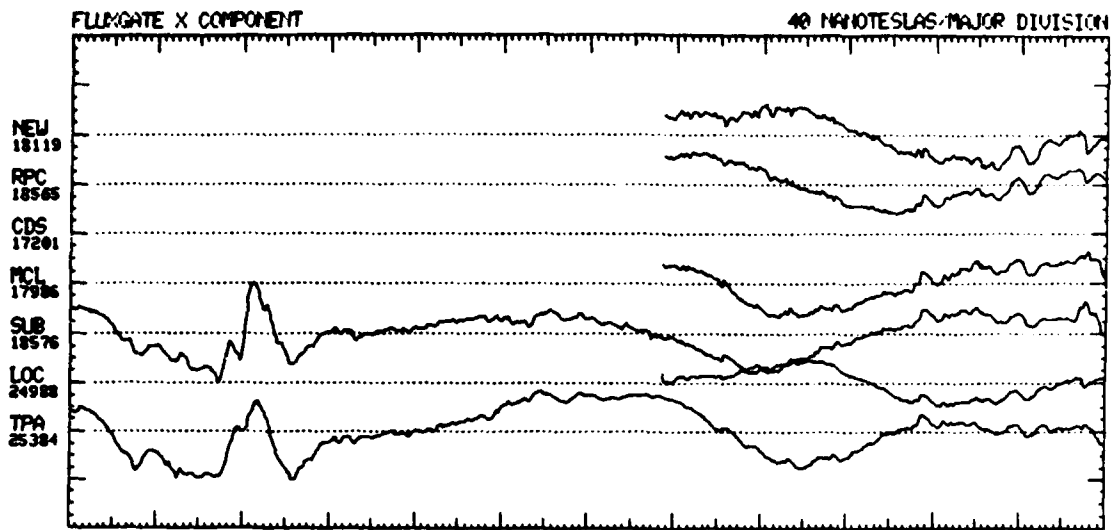


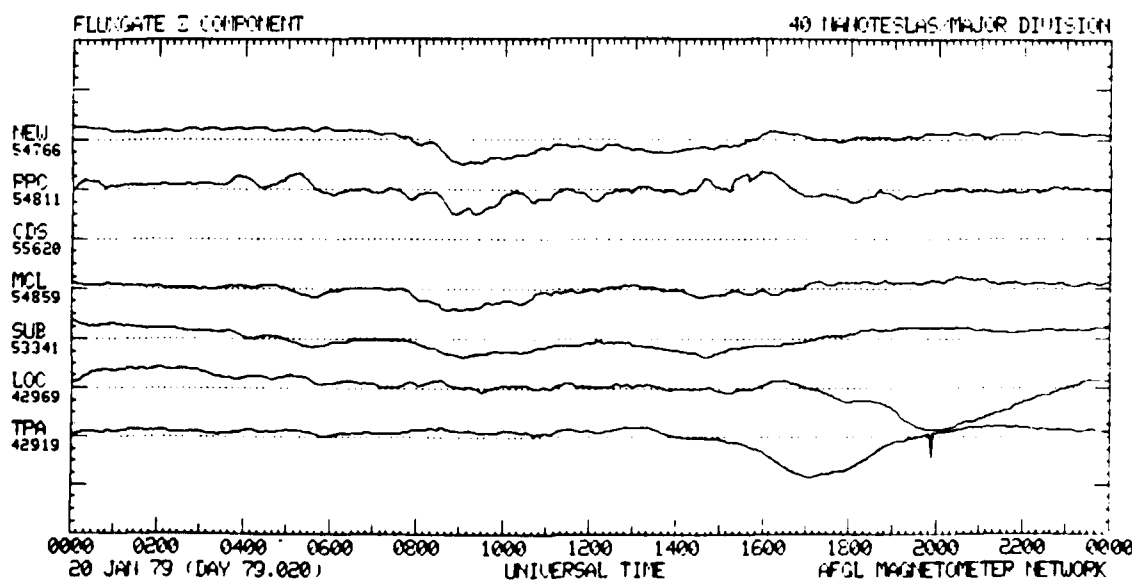
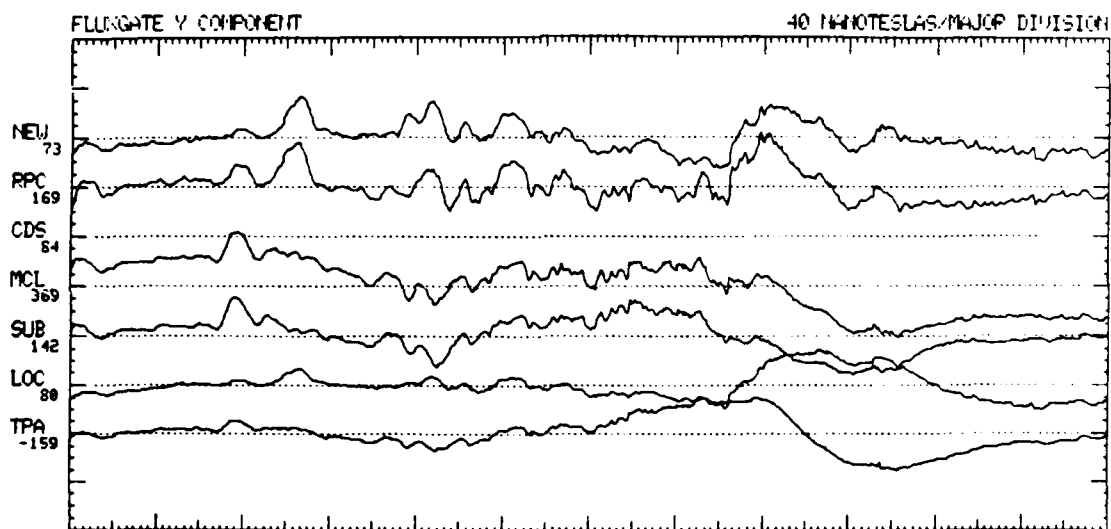
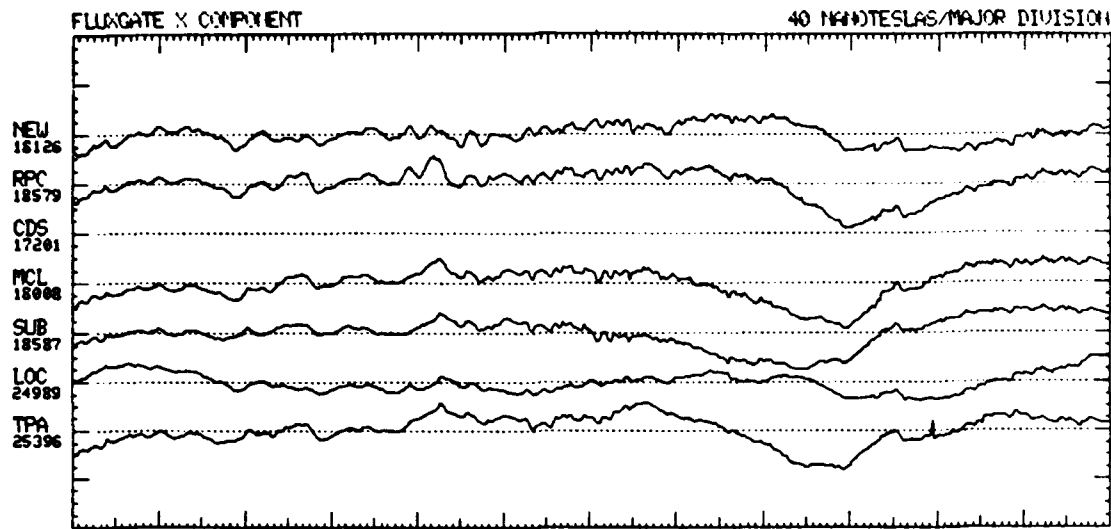








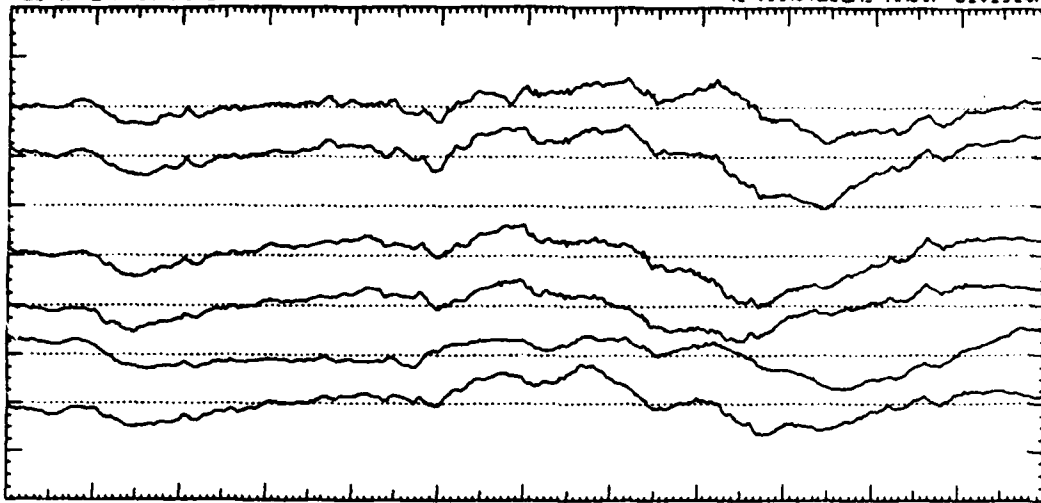




FLUNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

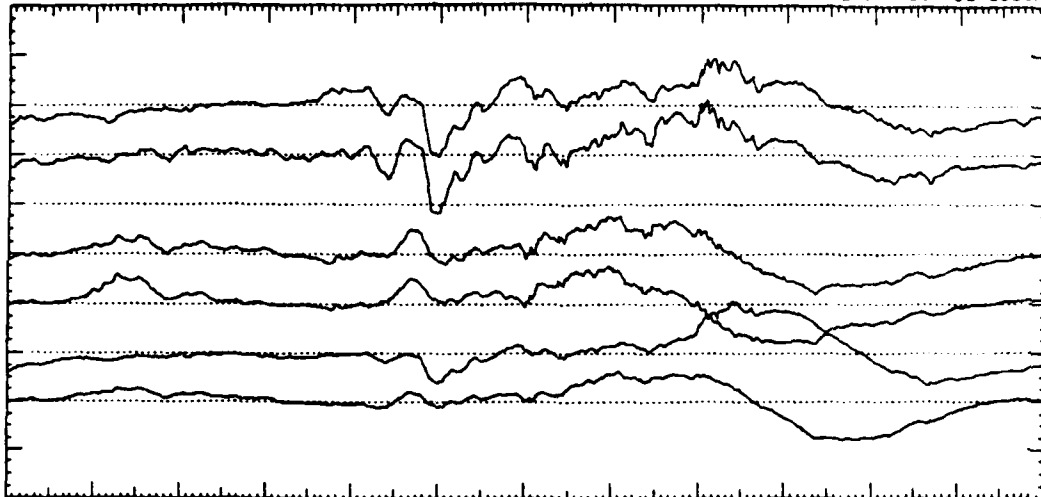
NEW
18129
RPC
18580
CDS
17201
MCL
18016
SUB
18600
LOC
24995
TPA
25484



FLUNGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

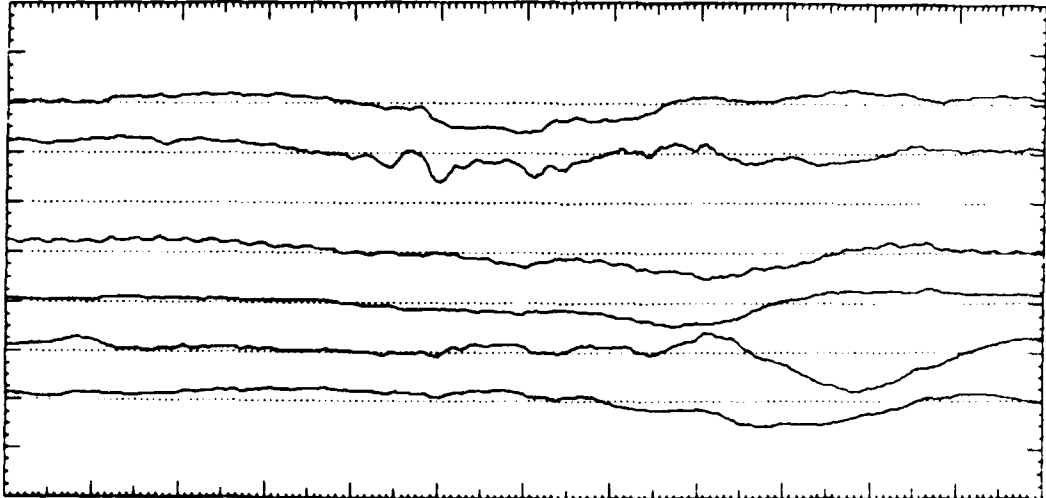
NEW
77
RPC
171
CDS
84
MCL
346
SUB
142
LOC
82
TPA
-162



FLUNGATE Z COMPONENT

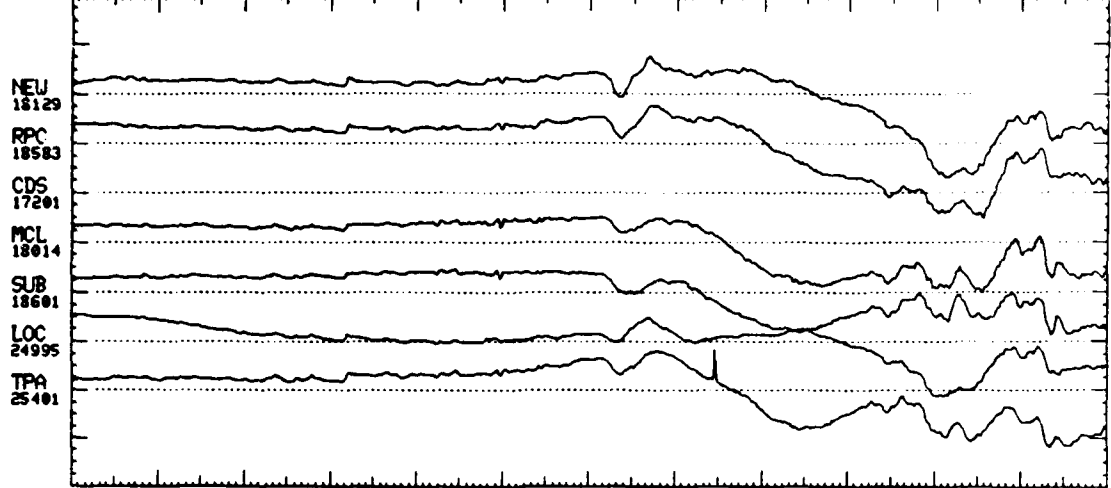
40 NANOTESLAS/MAJOR DIVISION

NEW
54770
RPC
54800
CDS
55620
MCL
54855
SUB
53347
LOC
42970
TPA
42917

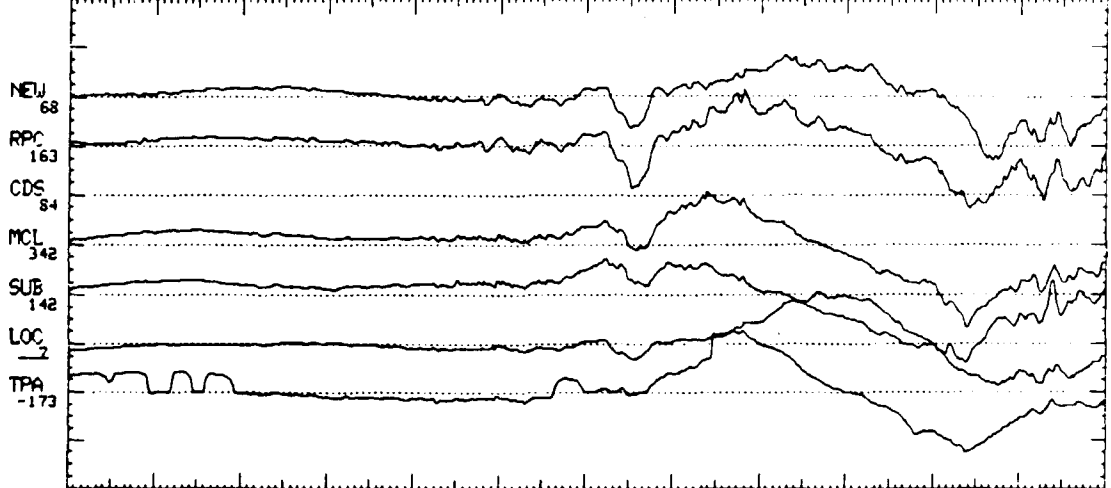


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 JAN 79 (DAY 79.021) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

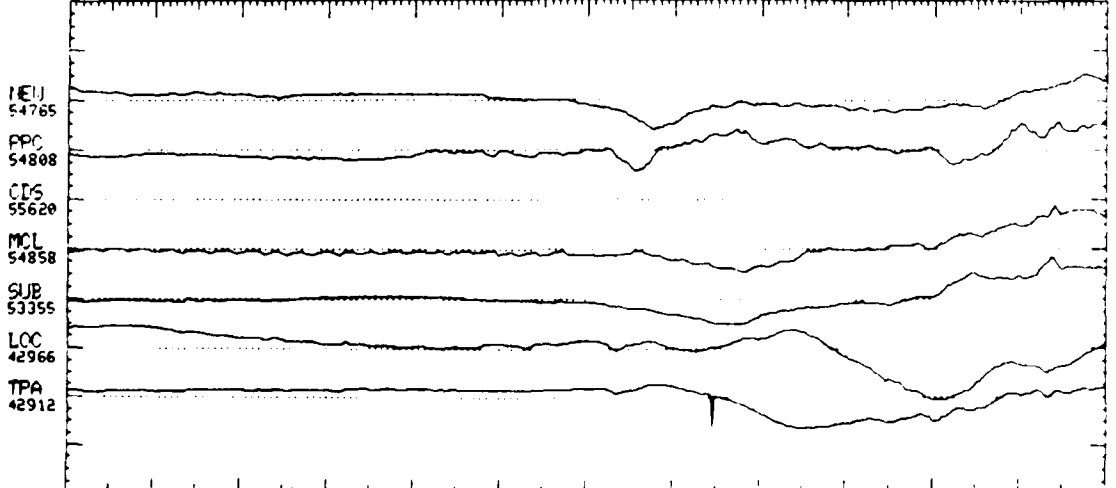
FLUXGATE X COMPONENT 40 NANOTESLAS MAJOR DIVISION



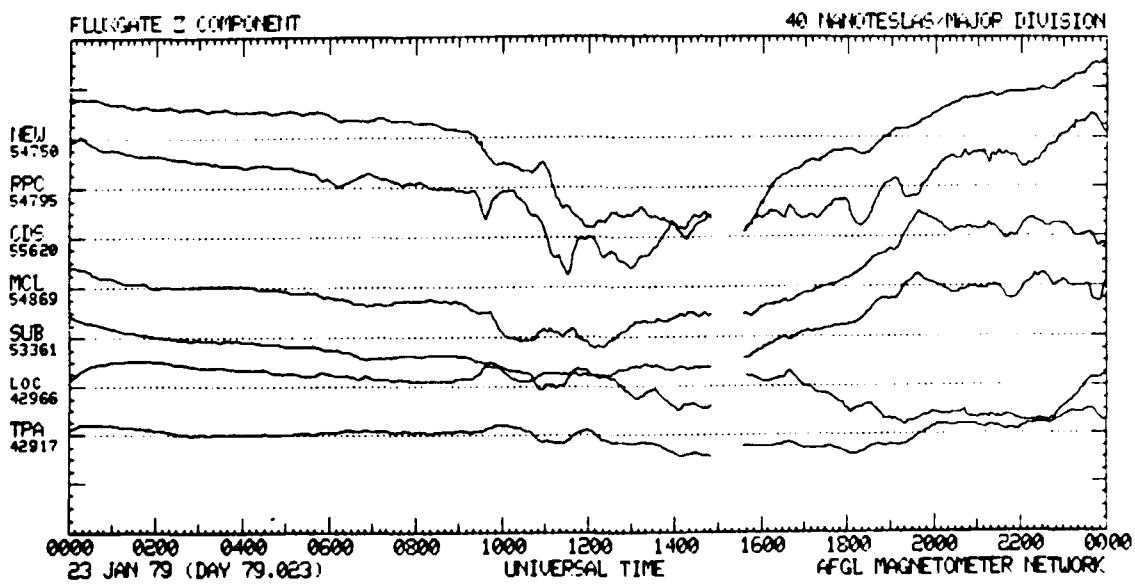
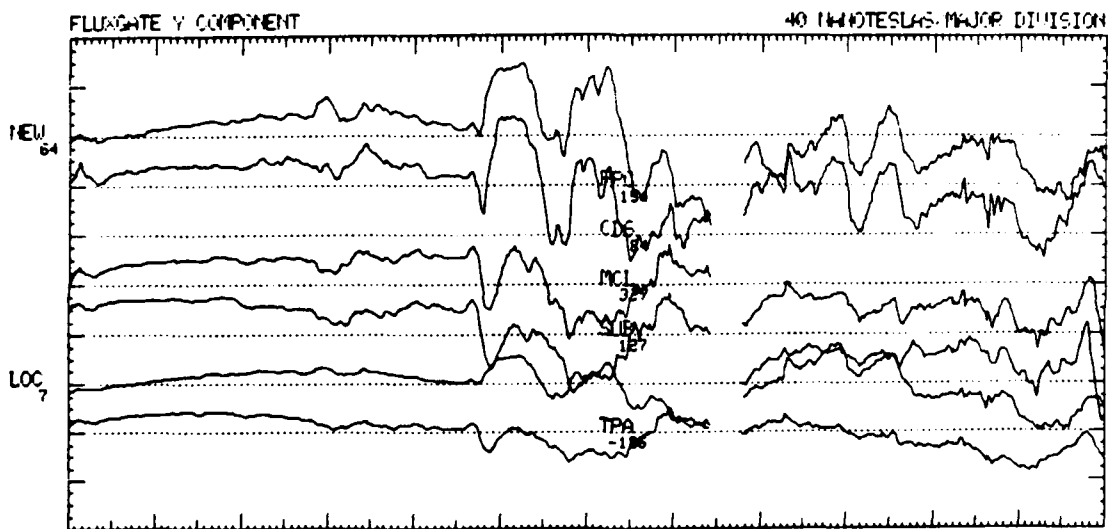
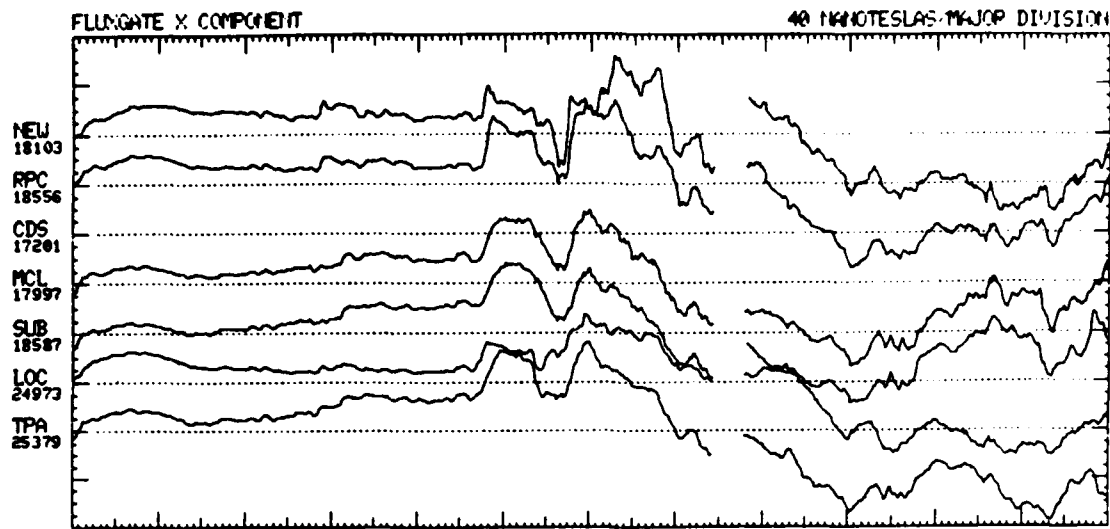
FLUXGATE Y COMPONENT 40 NANOTESLAS MAJOR DIVISION

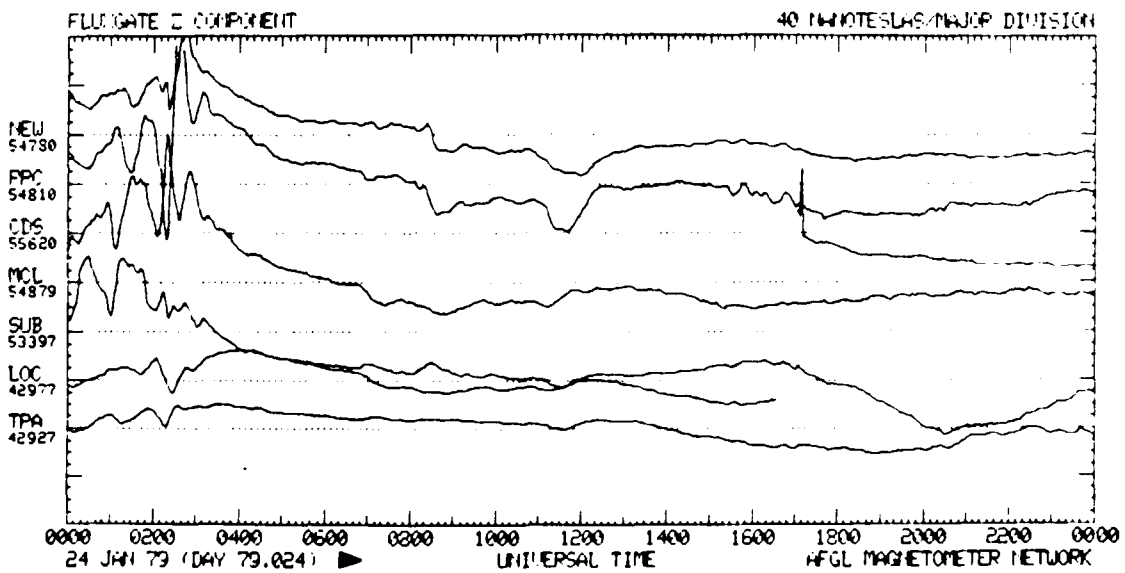
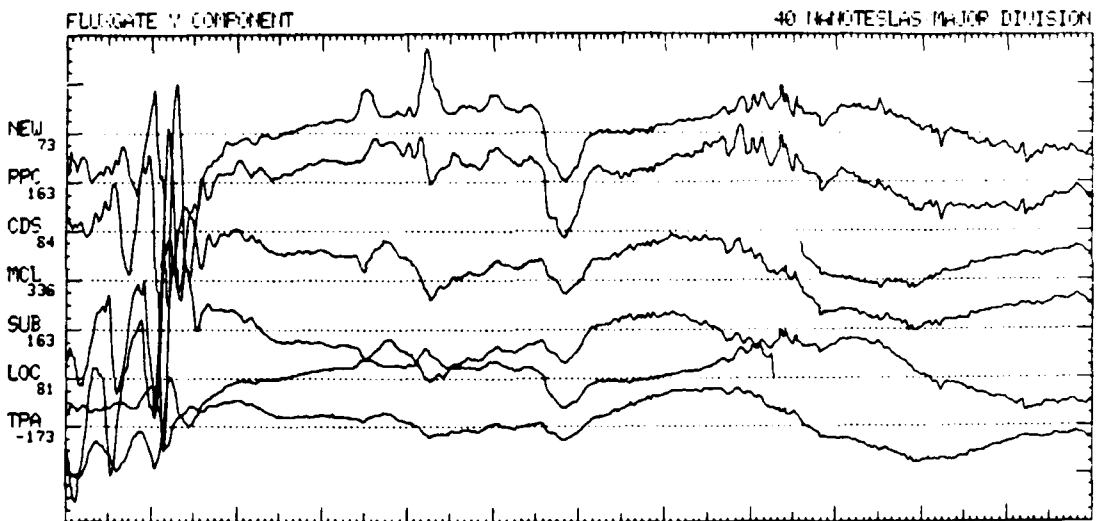
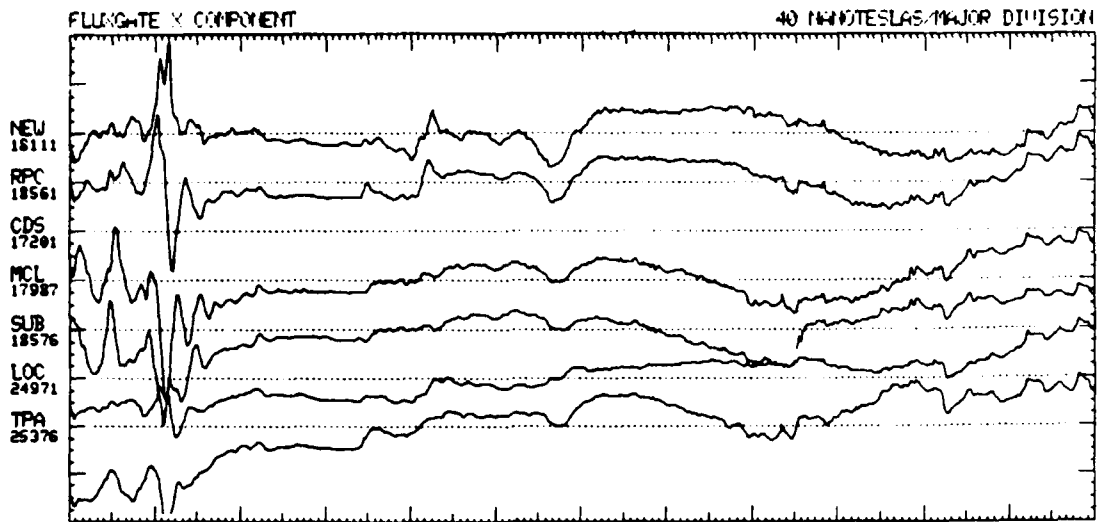


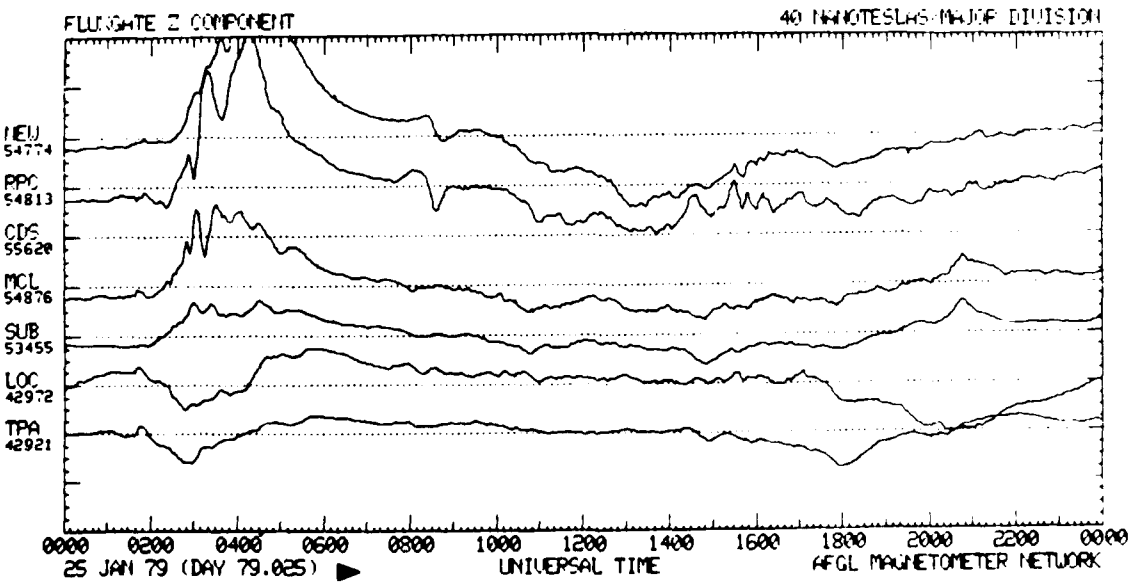
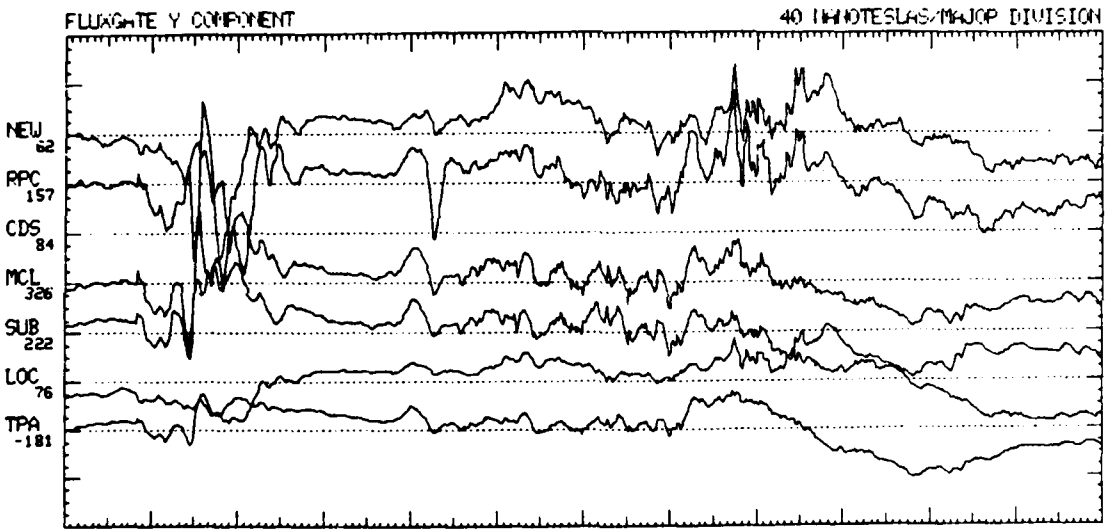
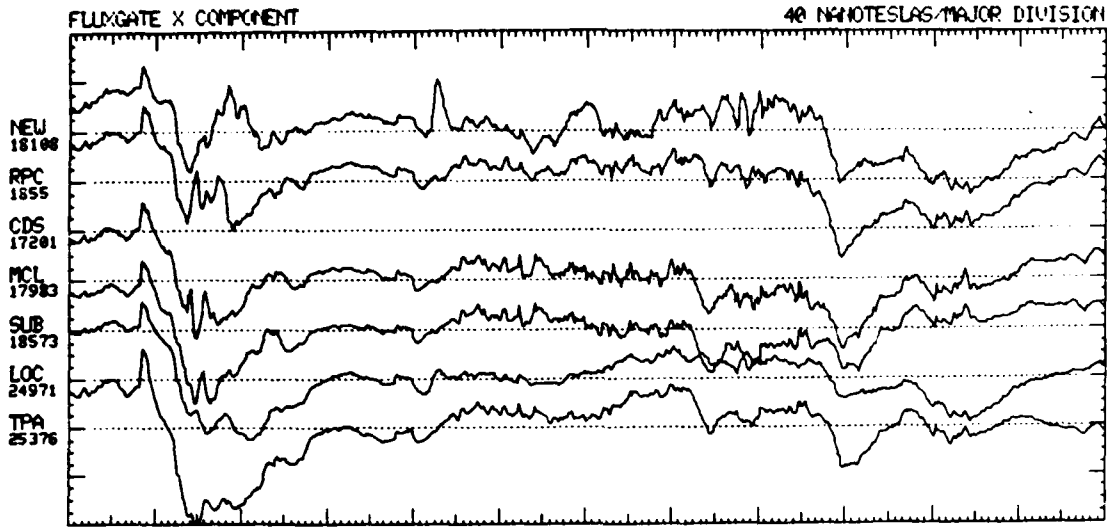
FLUXGATE Z COMPONENT 40 NANOTESLAS MAJOR DIVISION

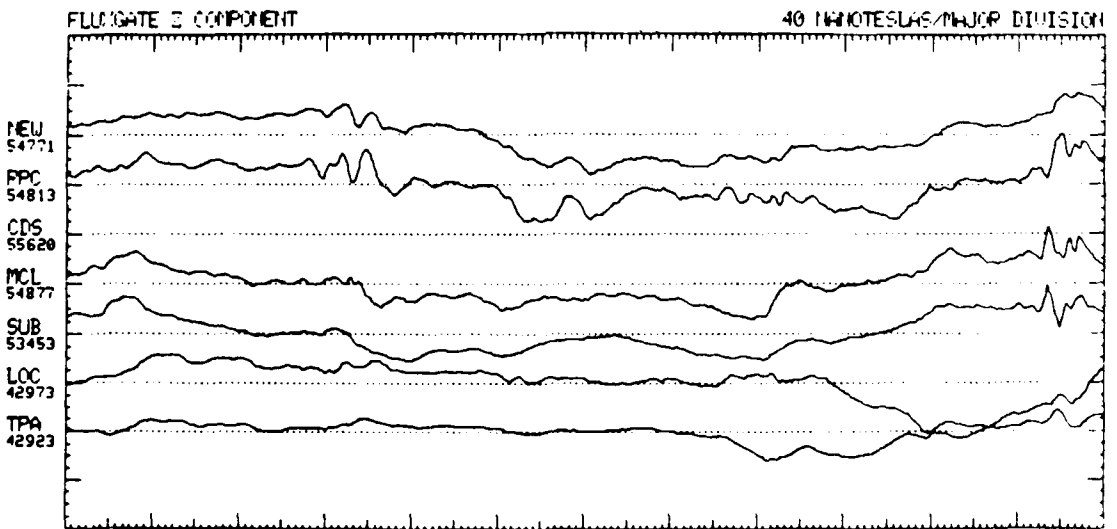
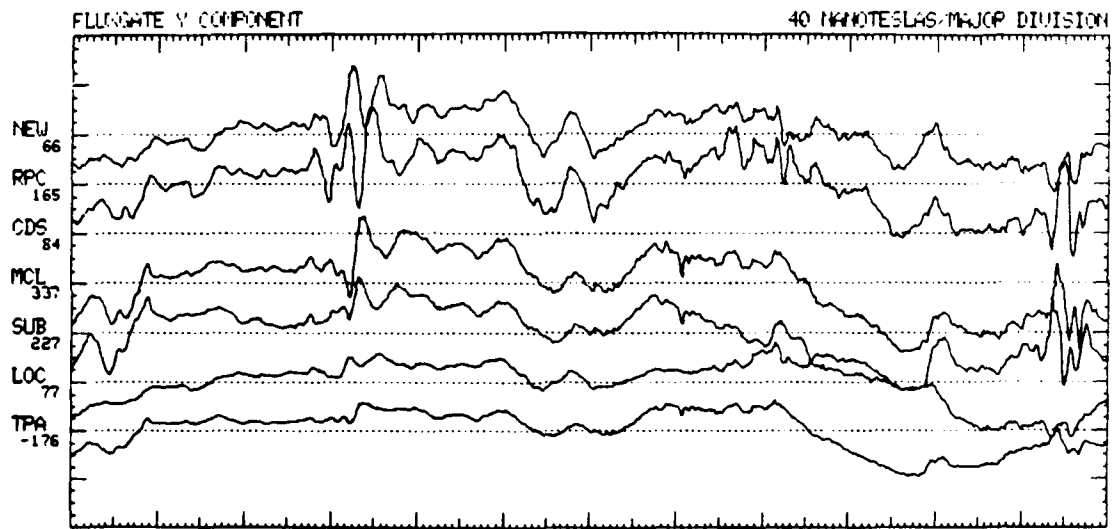
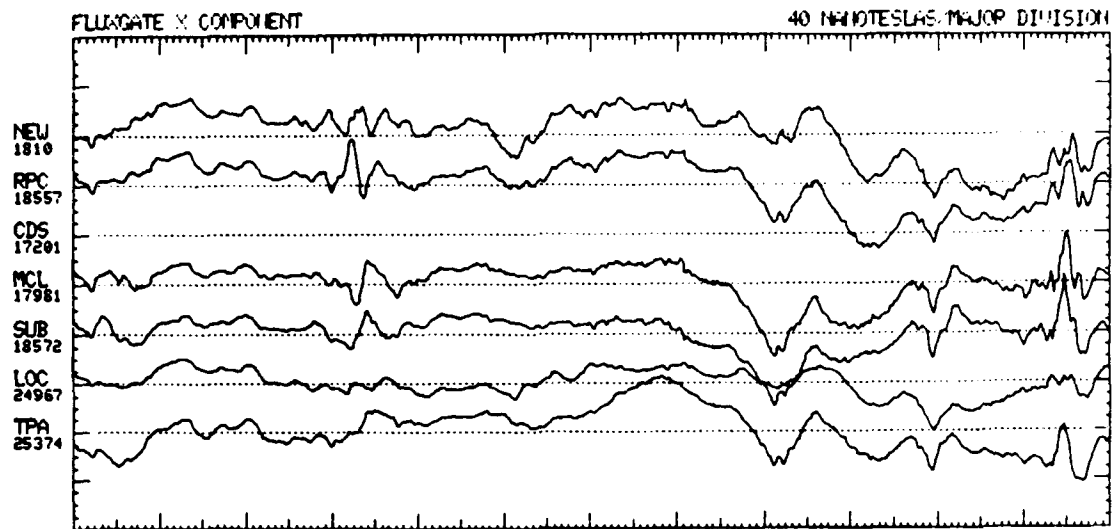


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 22 JAN 79 (DAY 79.022) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

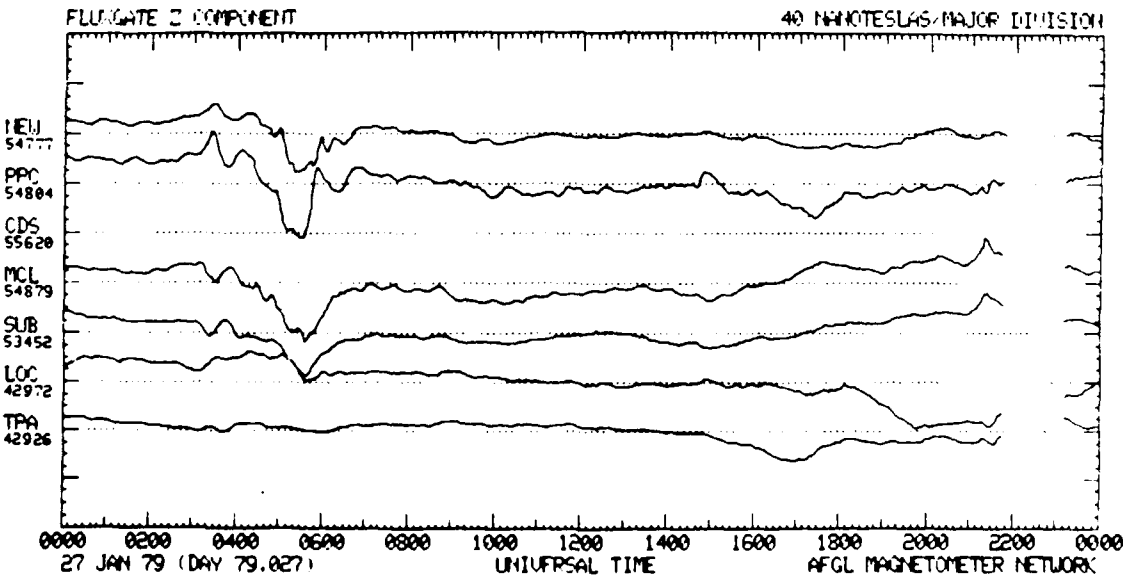
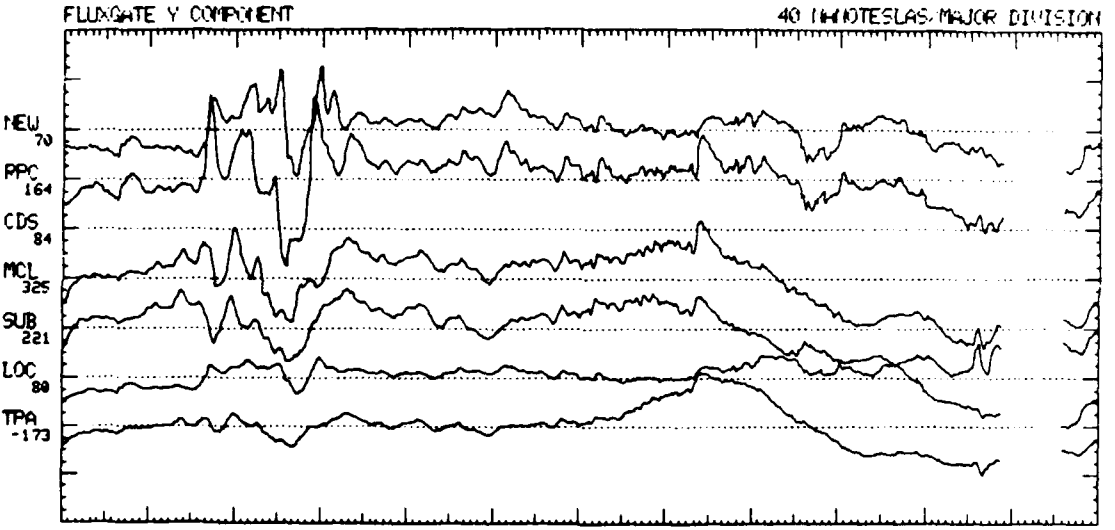
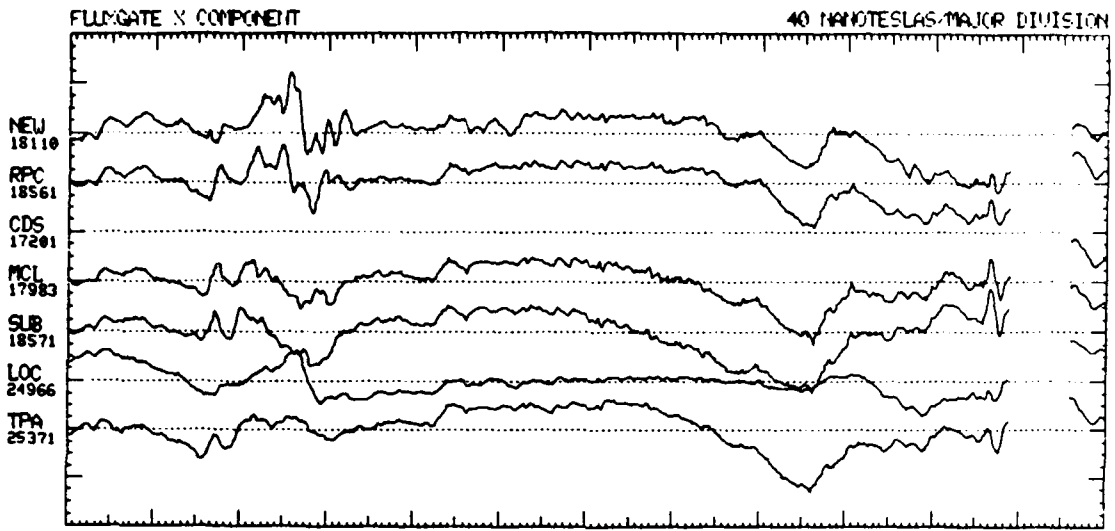




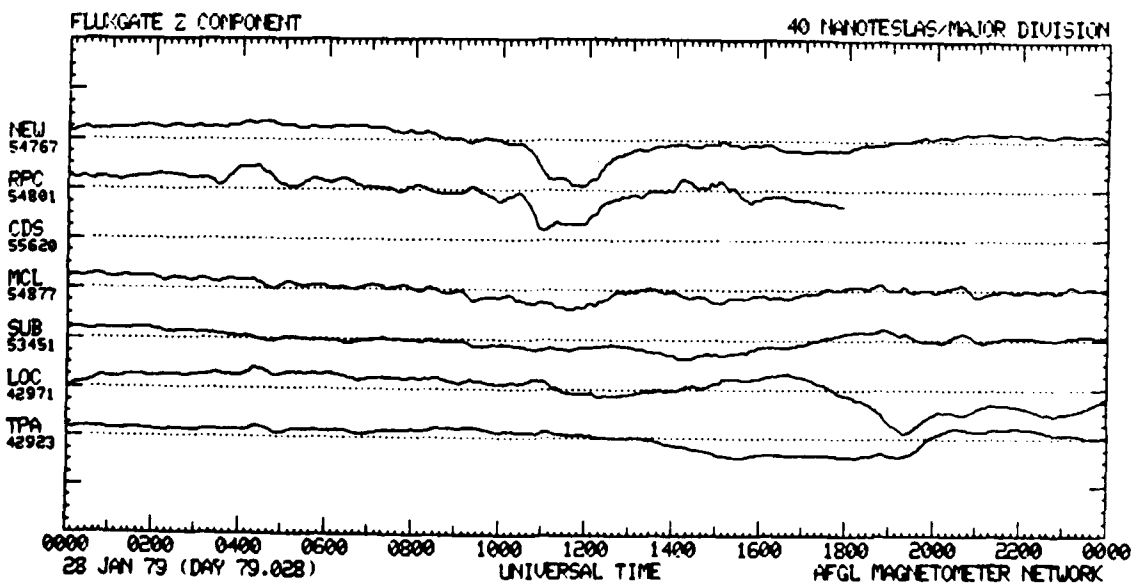
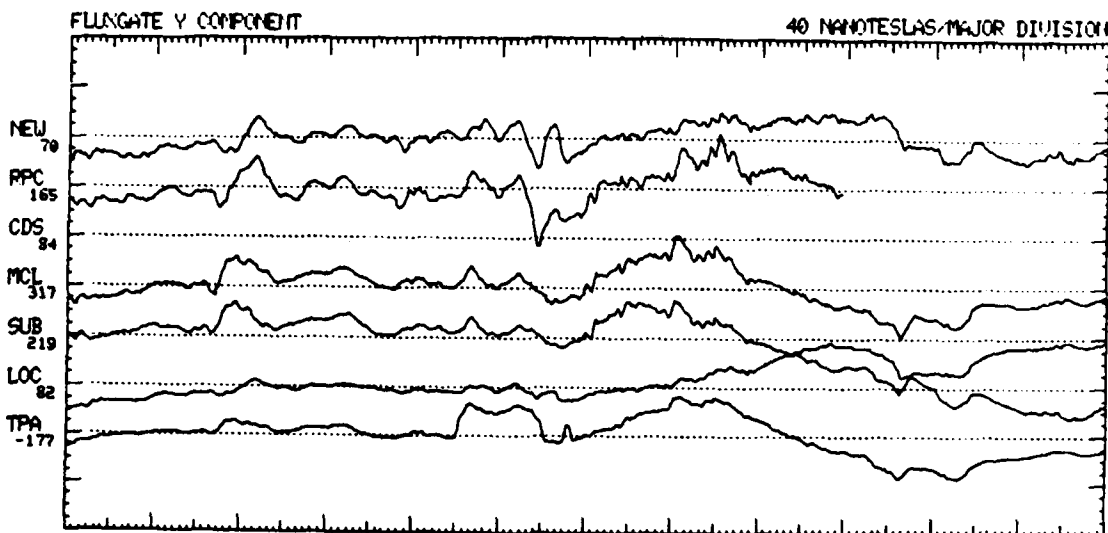
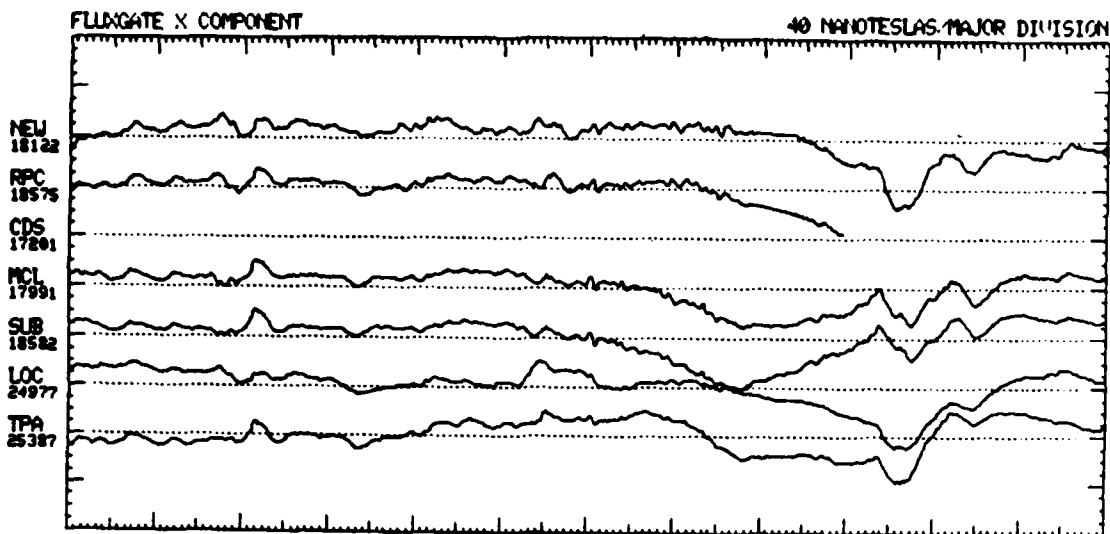


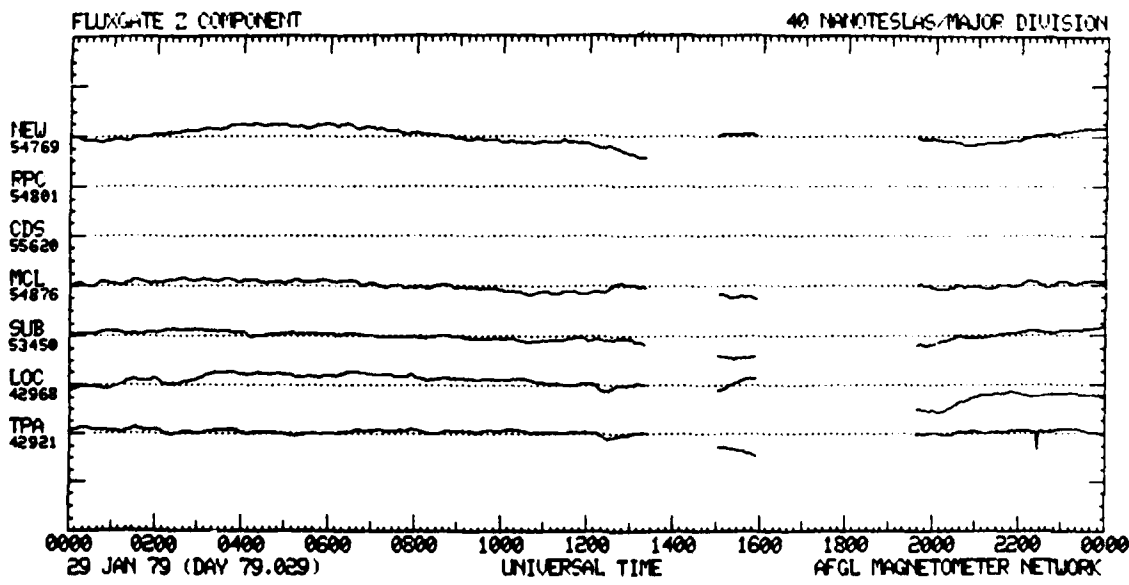
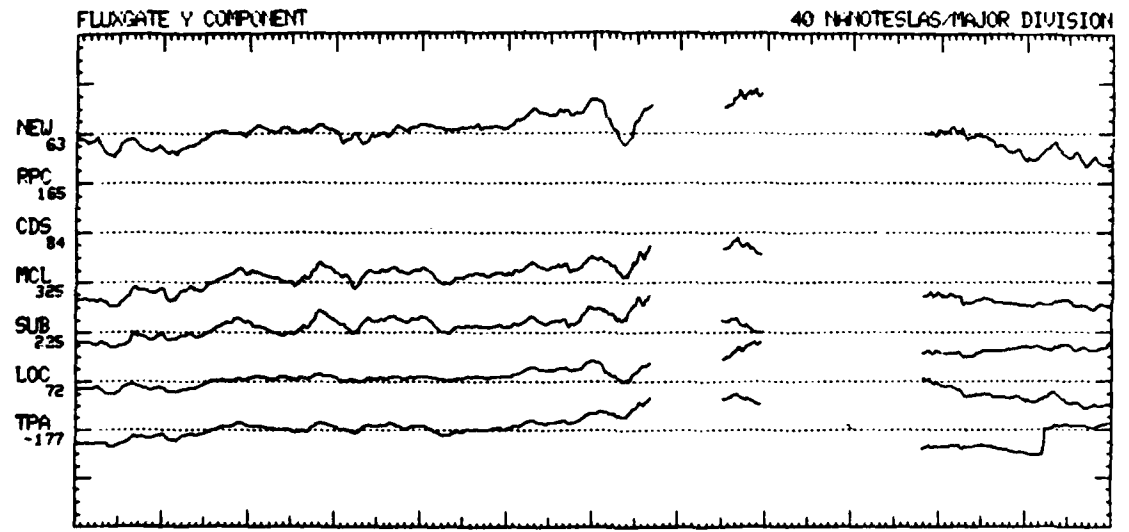
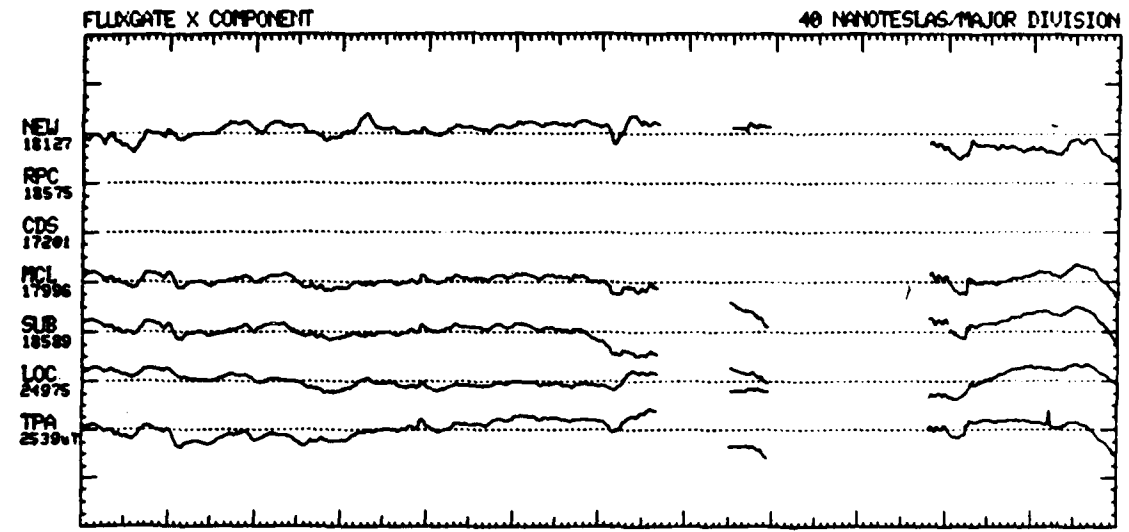


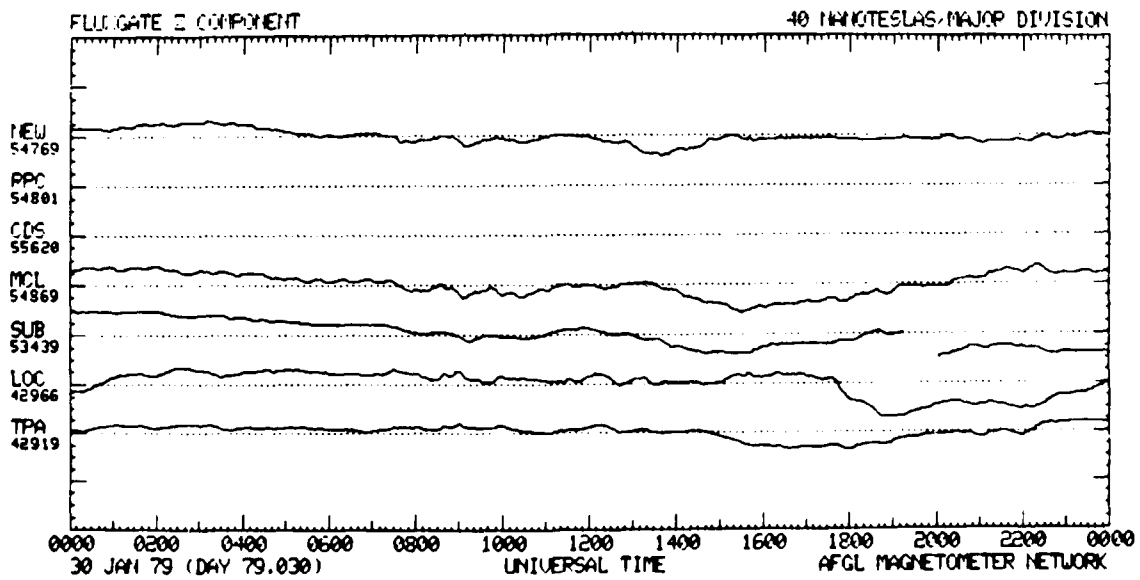
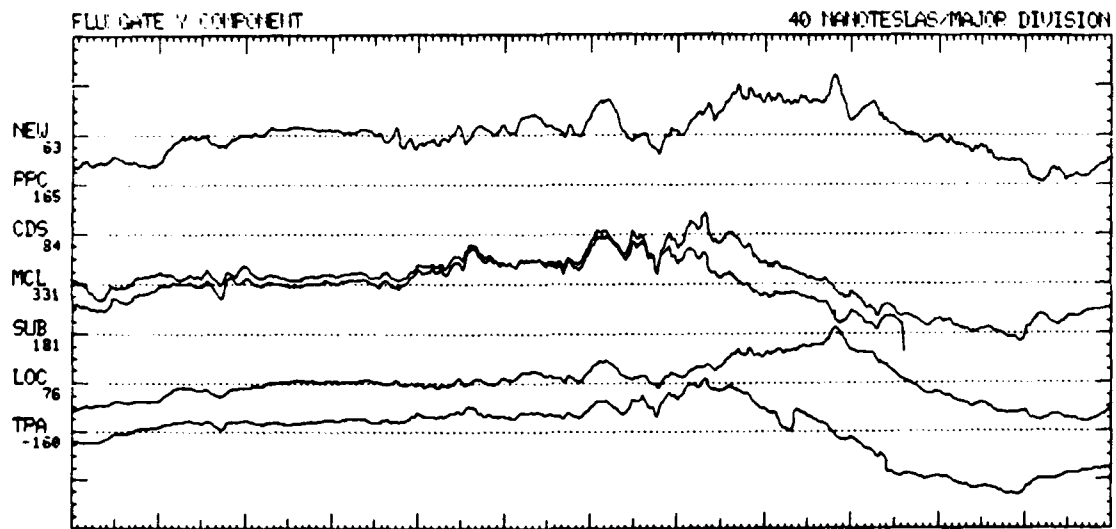
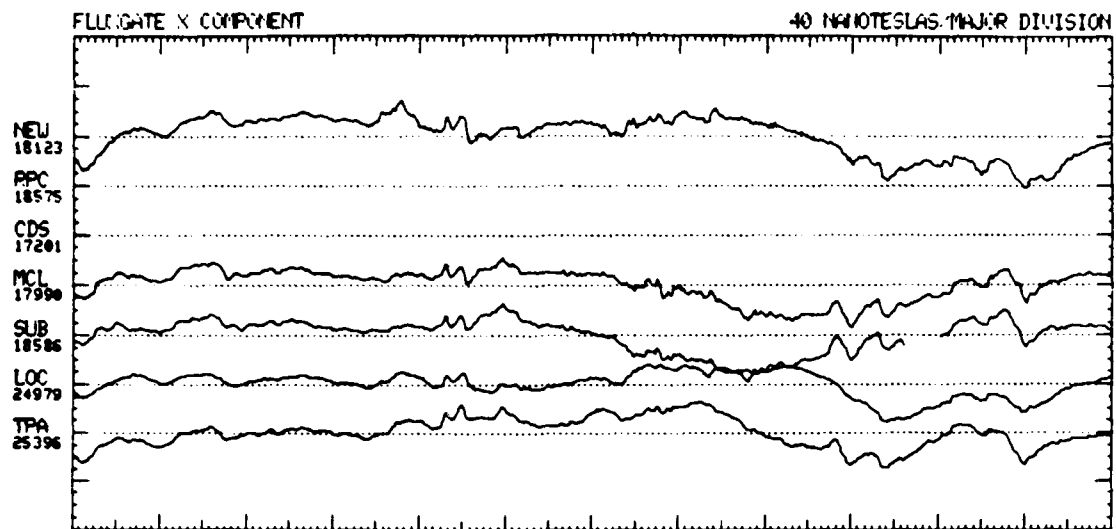
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 JAN 79 (DAY 79.026) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

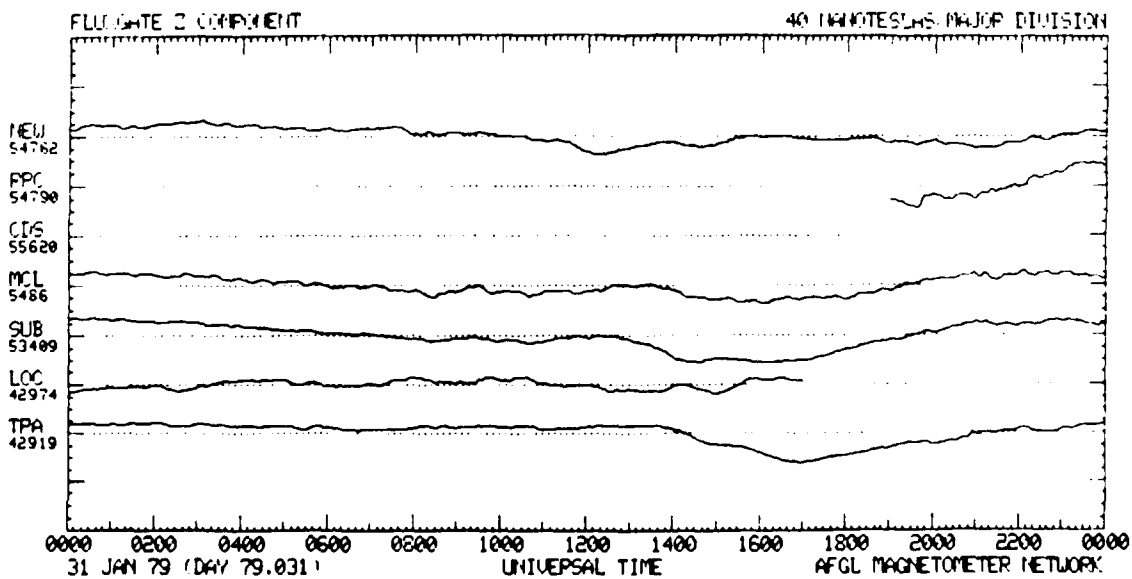
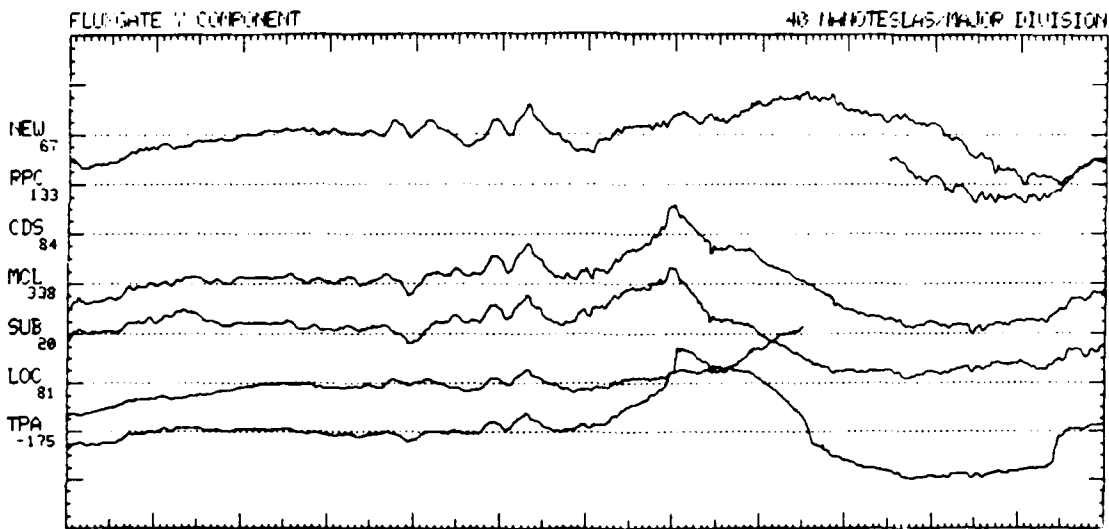
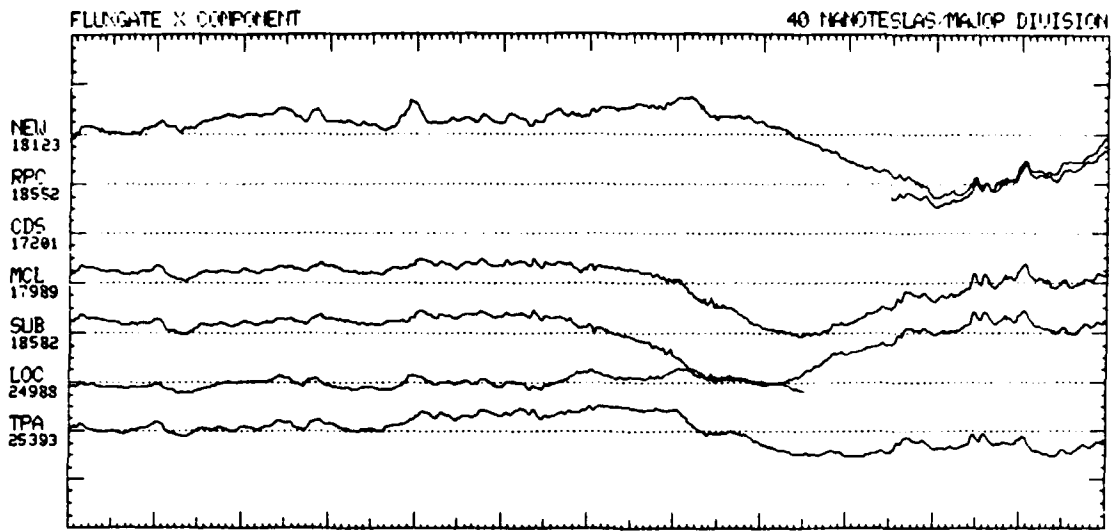


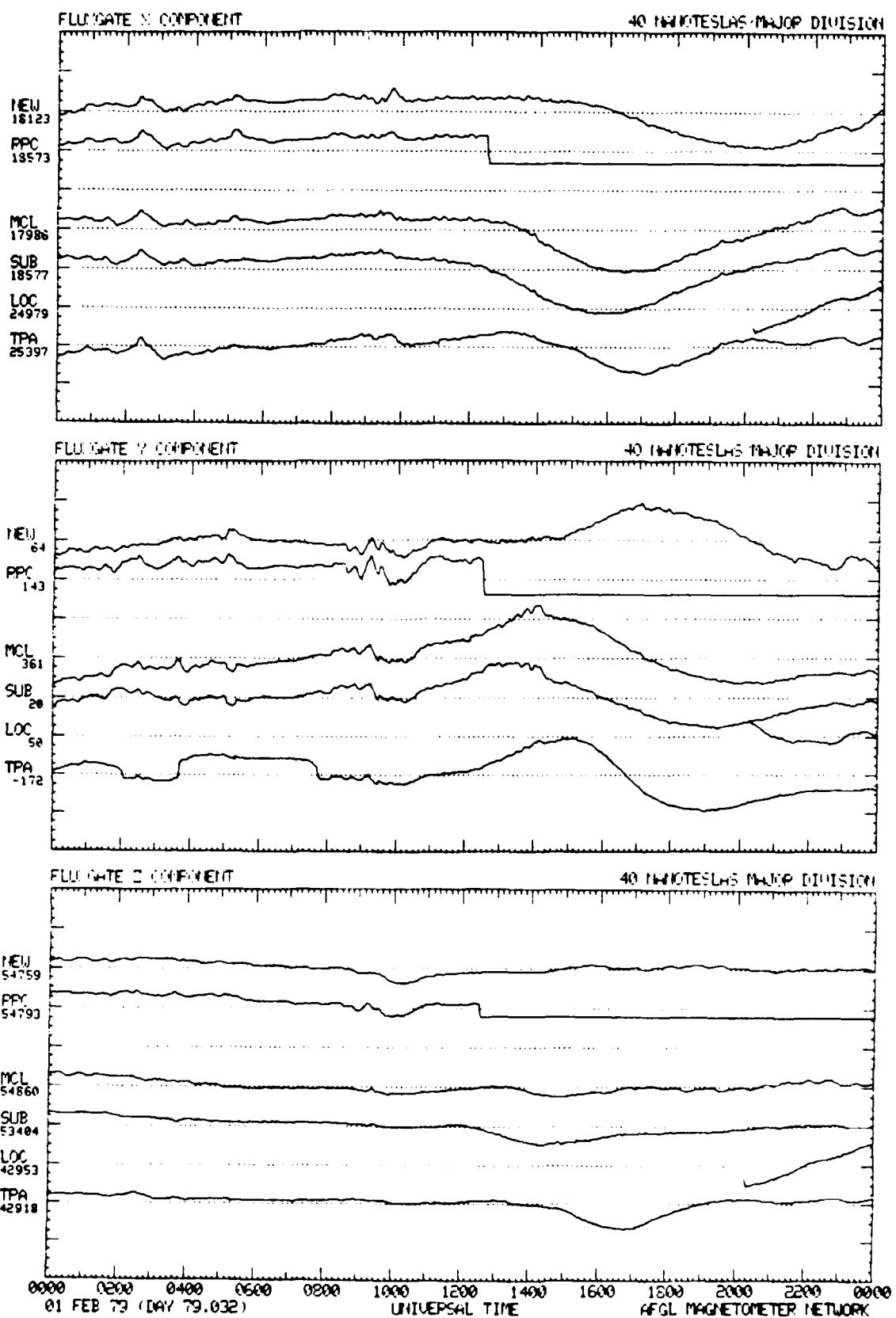
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 27 JAN 79 (DAY 79.027) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

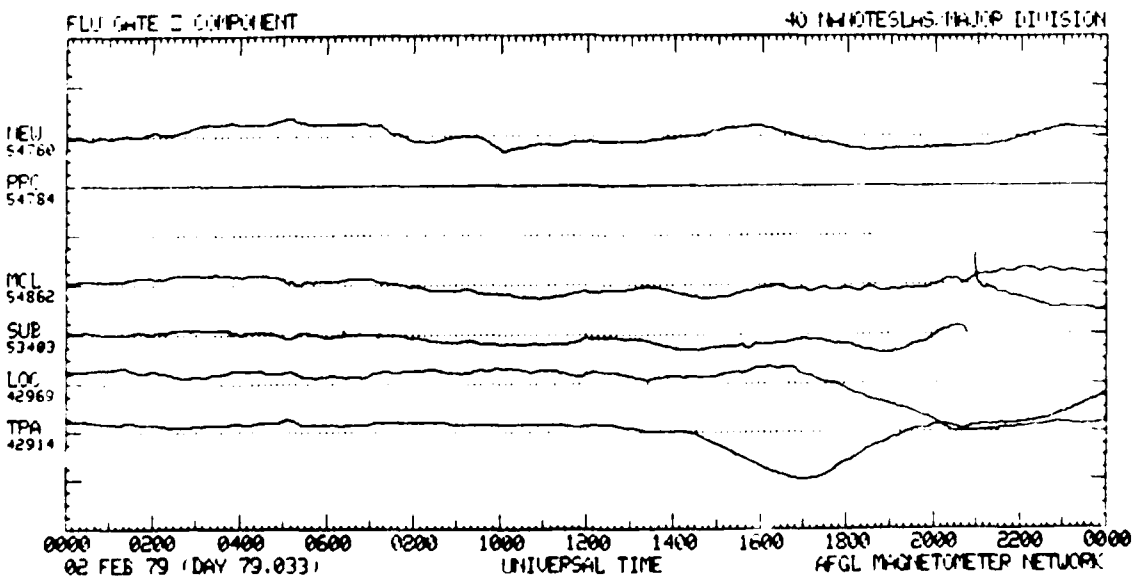
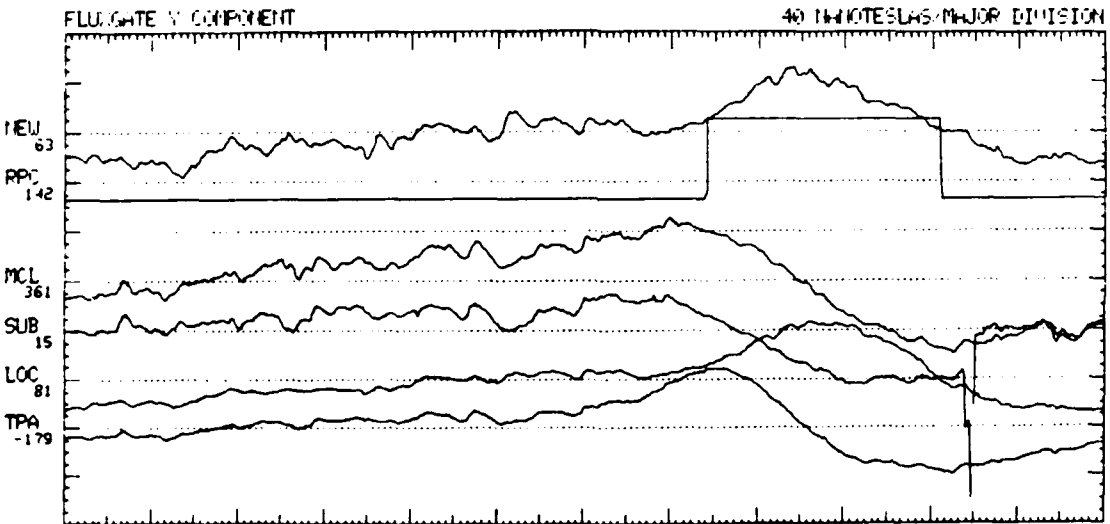
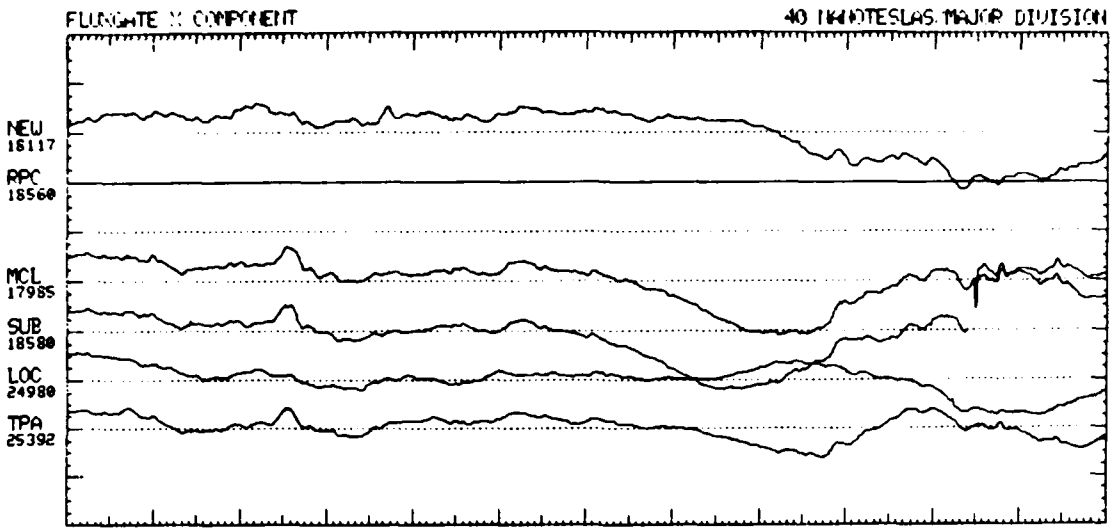


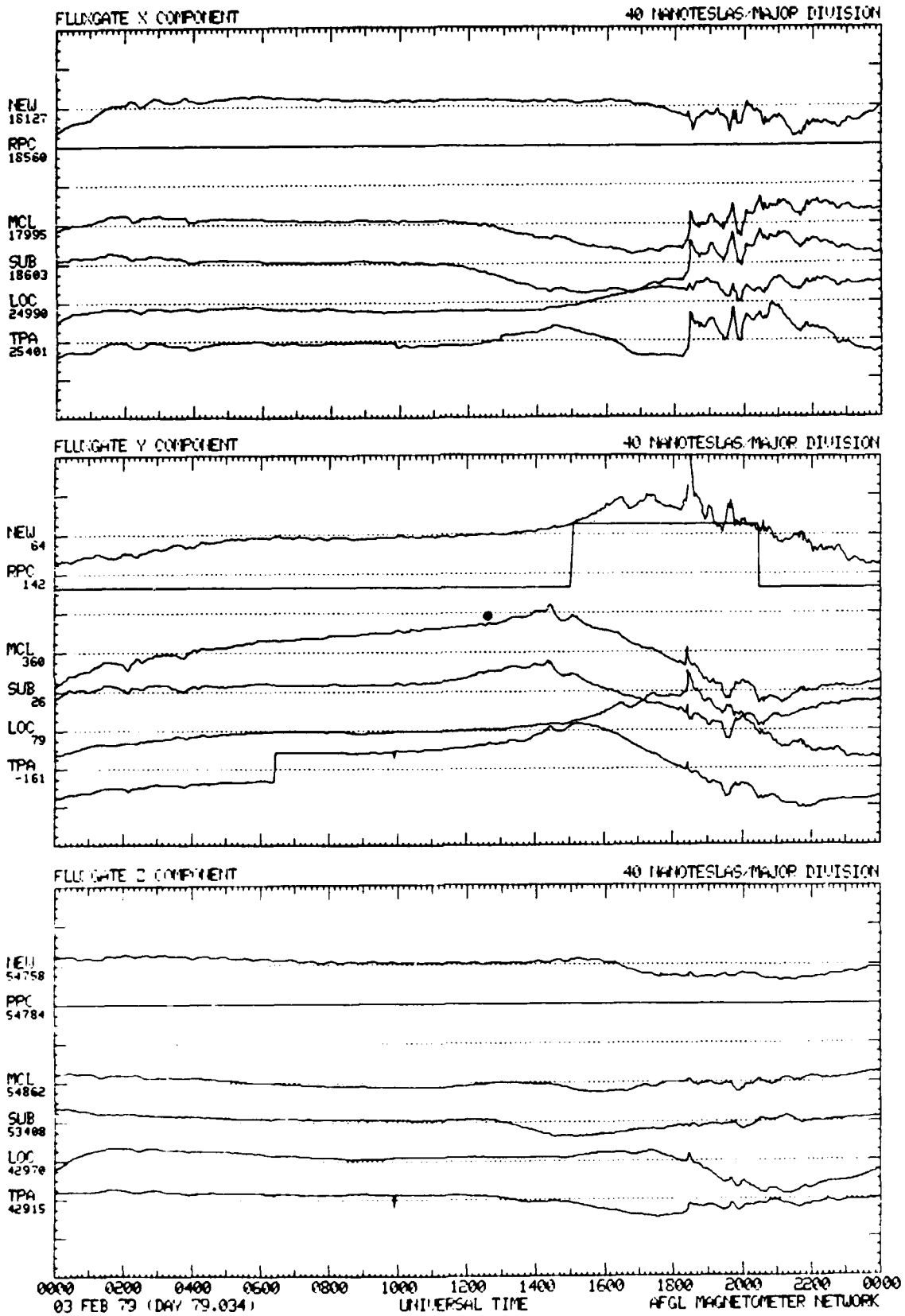


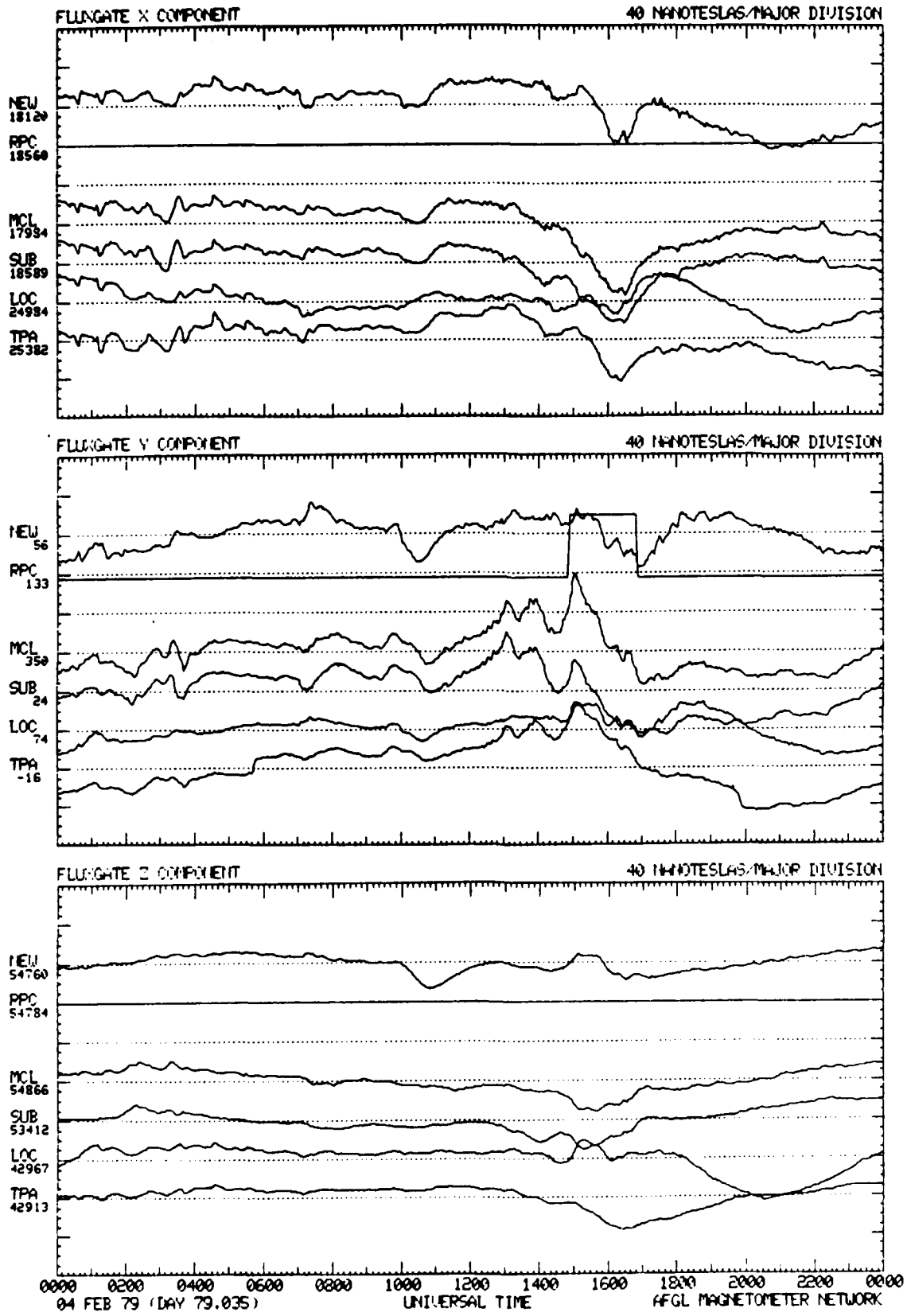


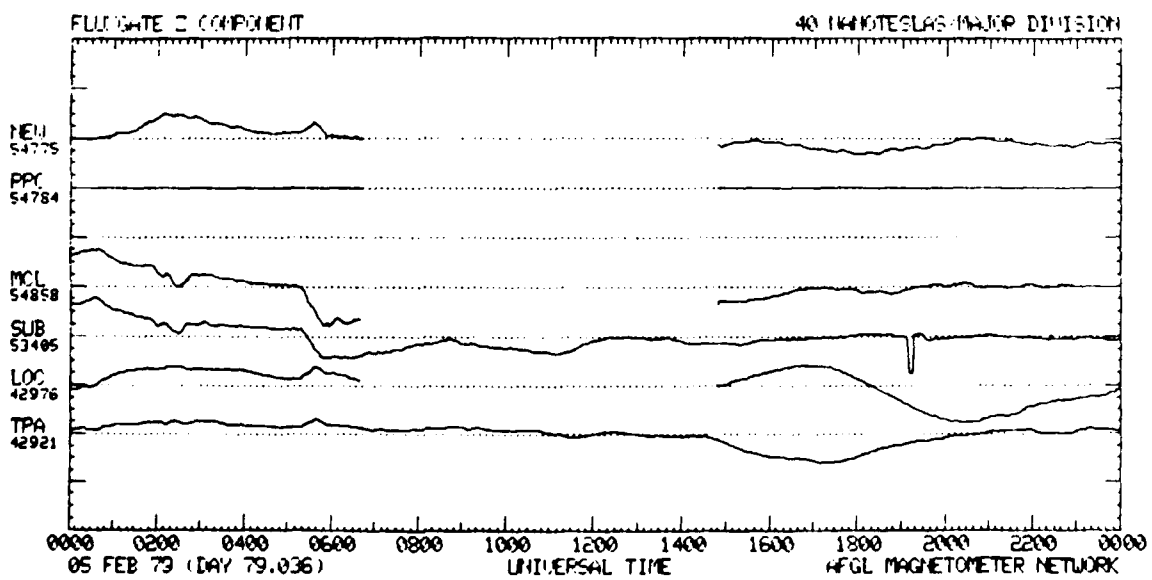
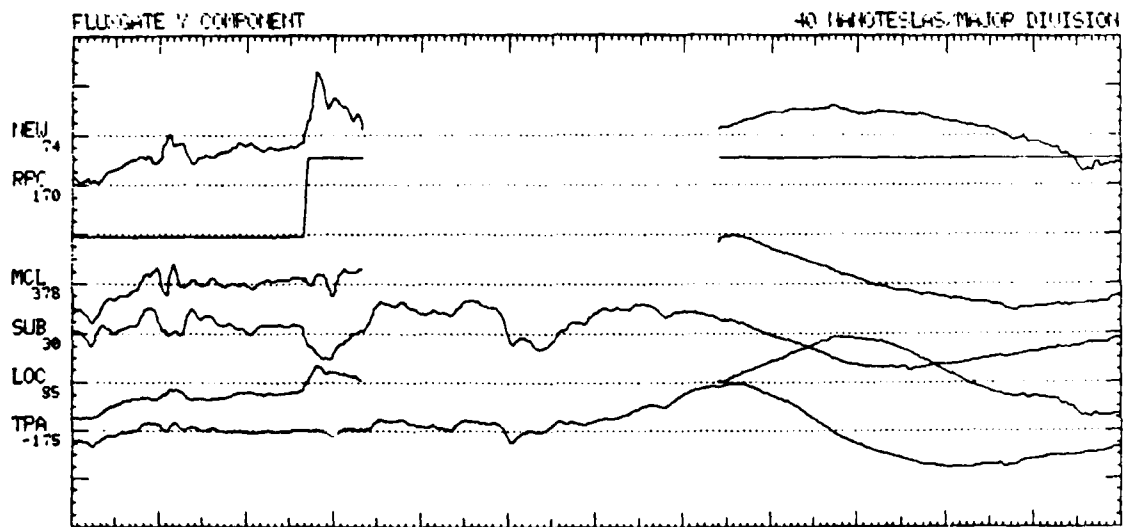
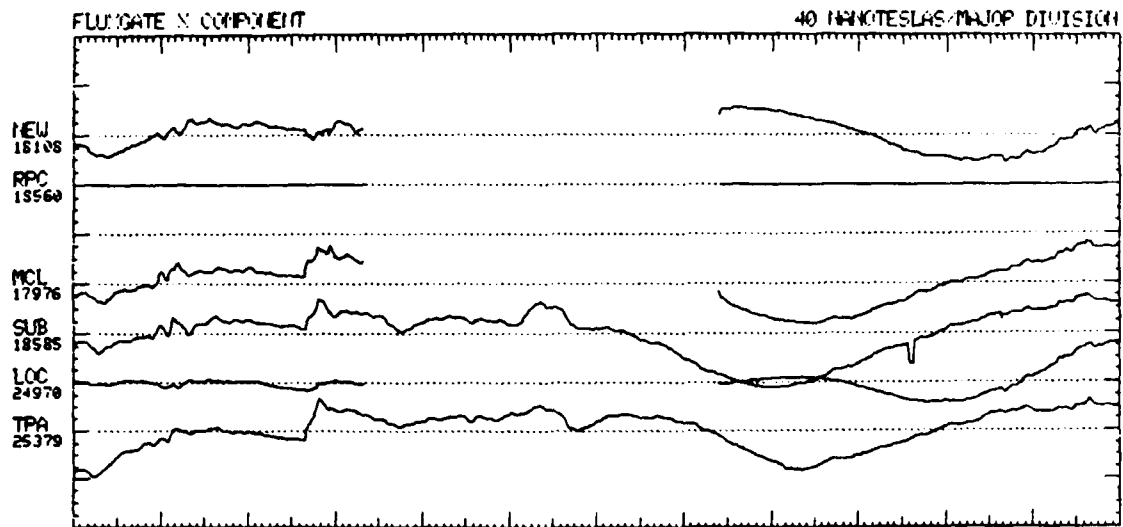


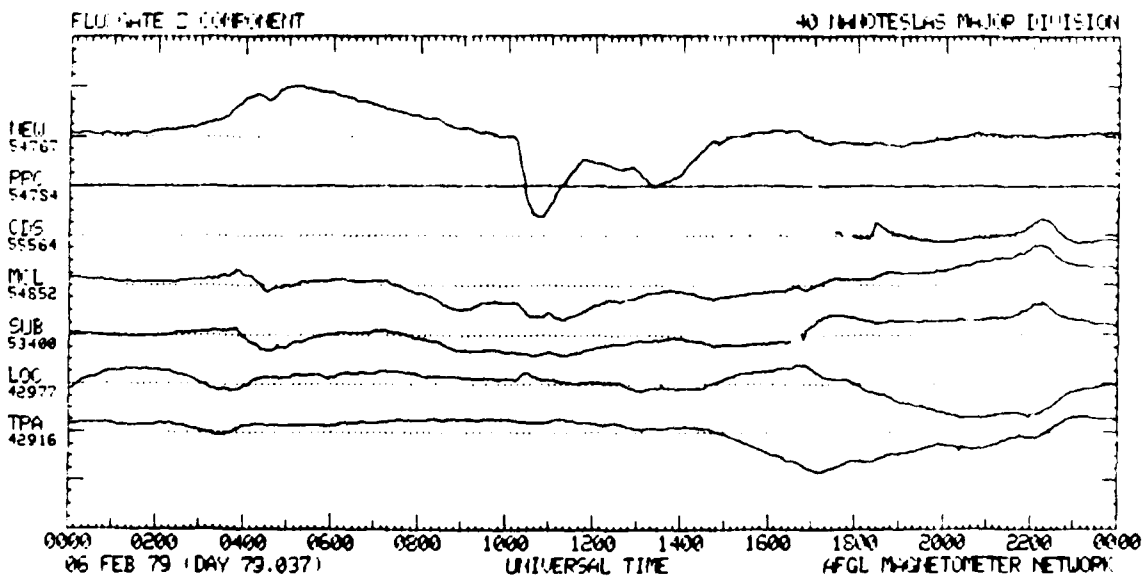
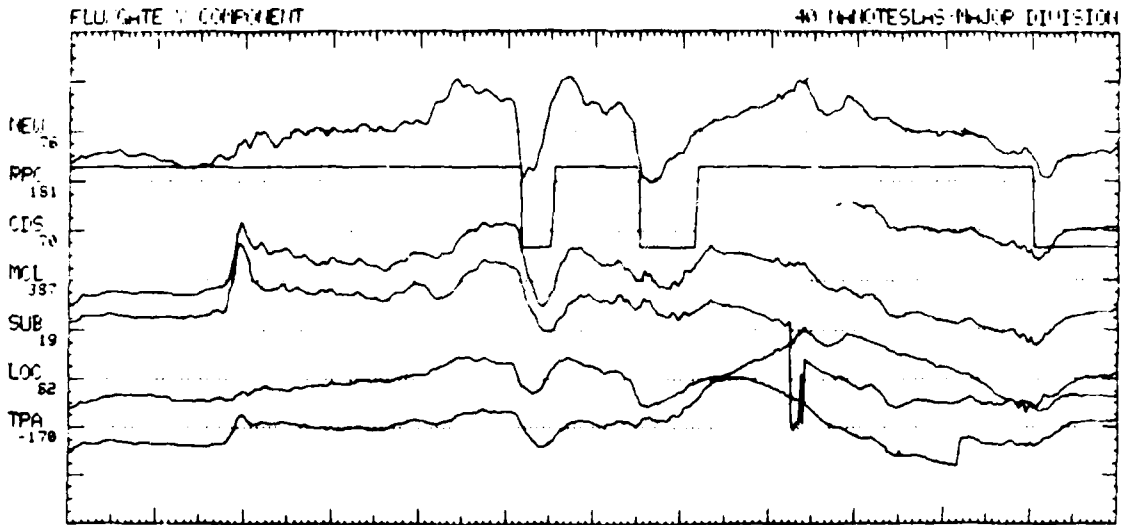
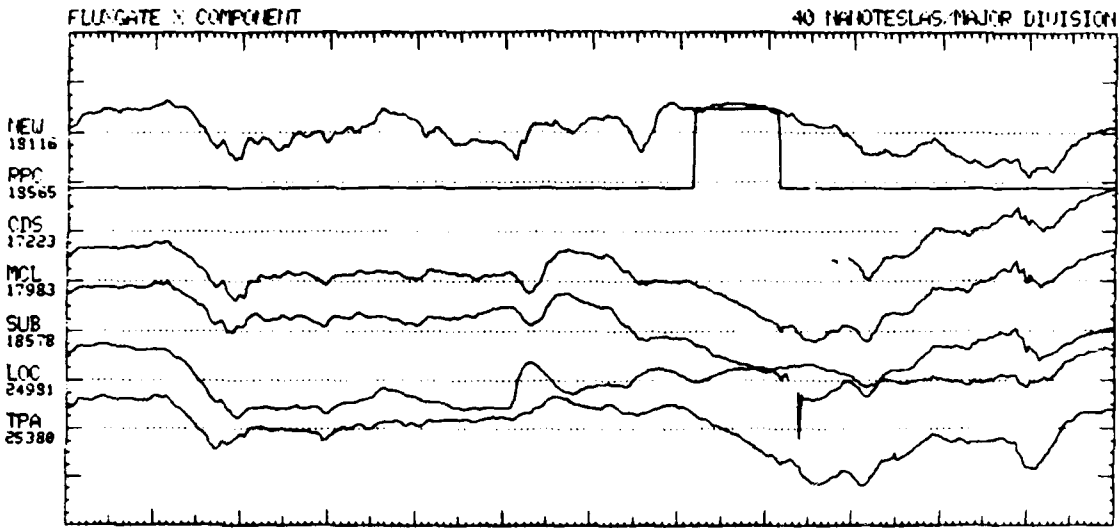


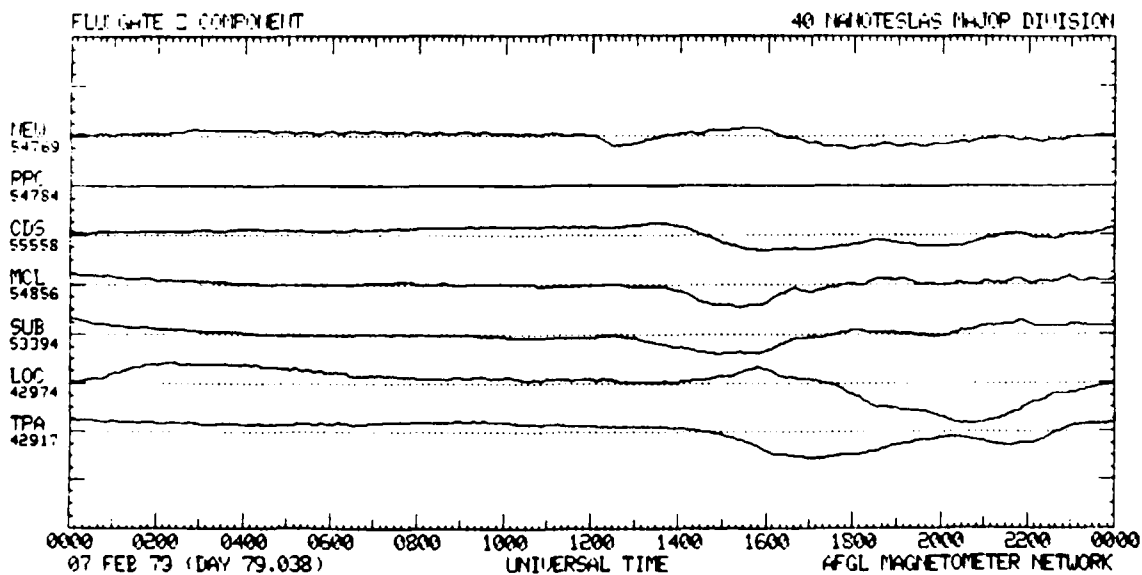
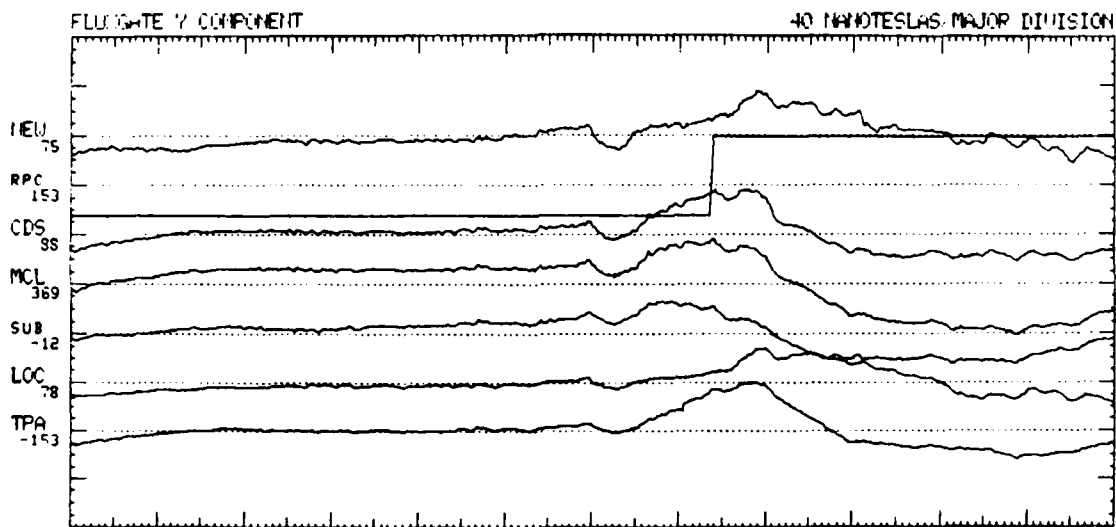
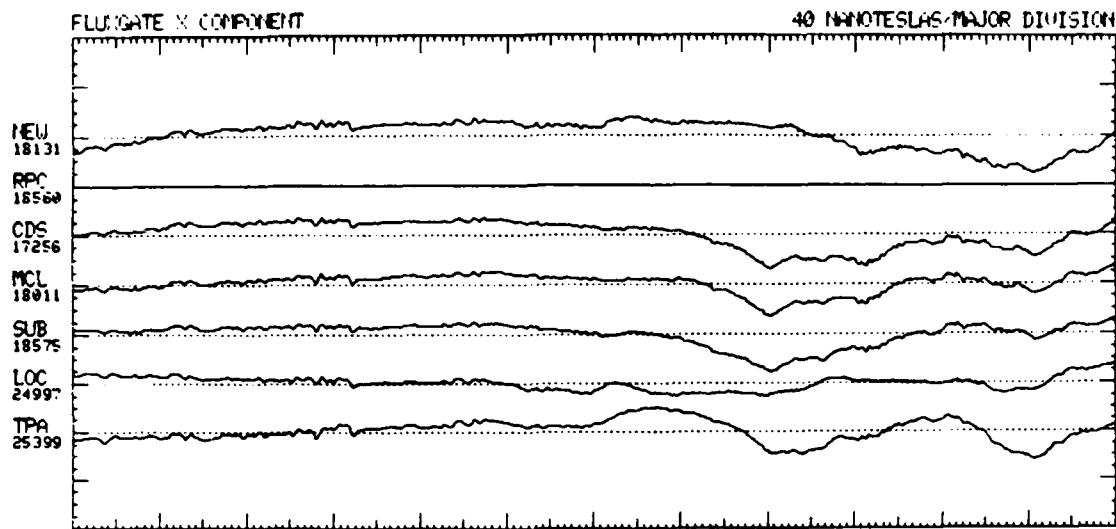


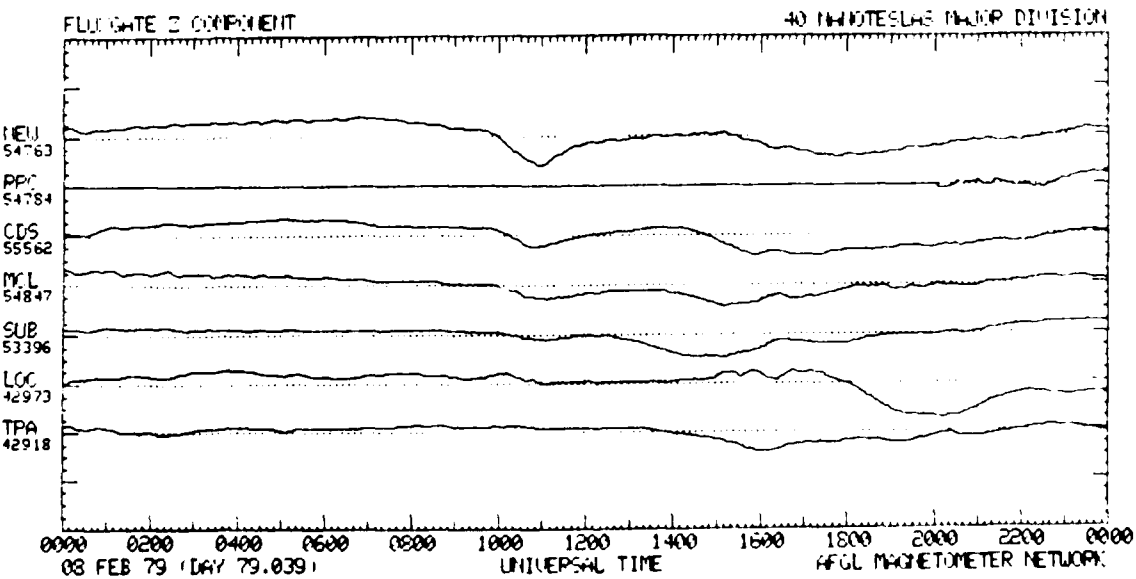
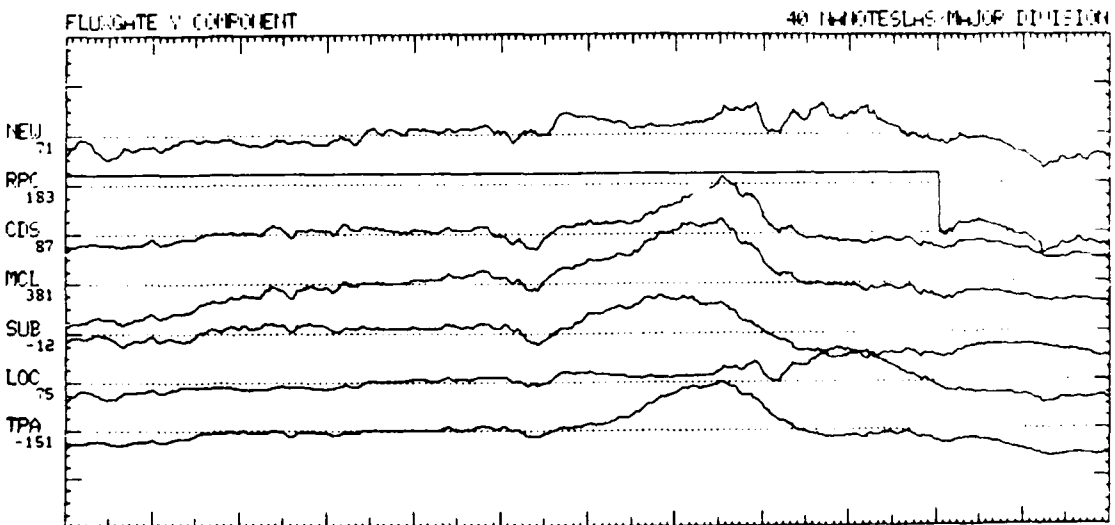
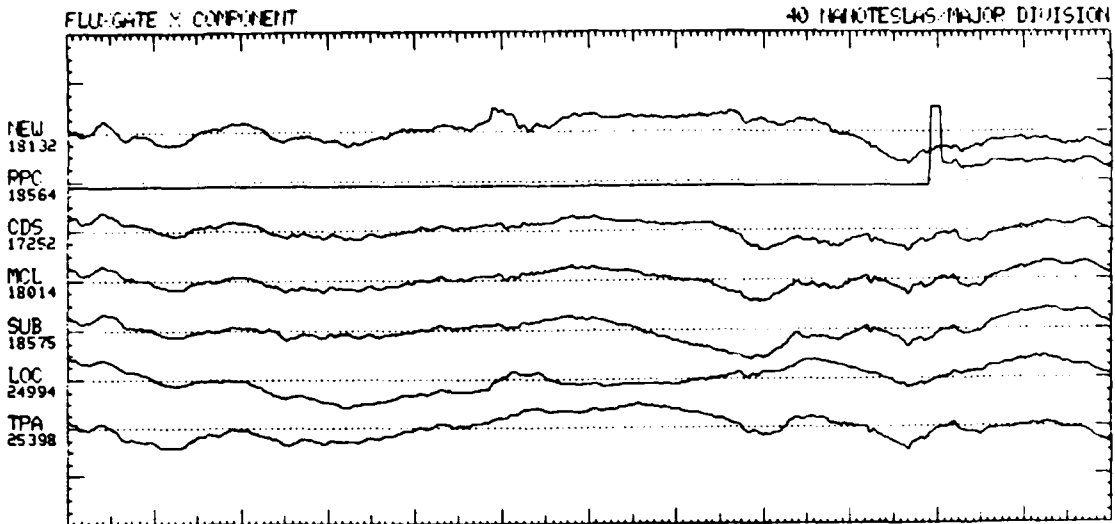


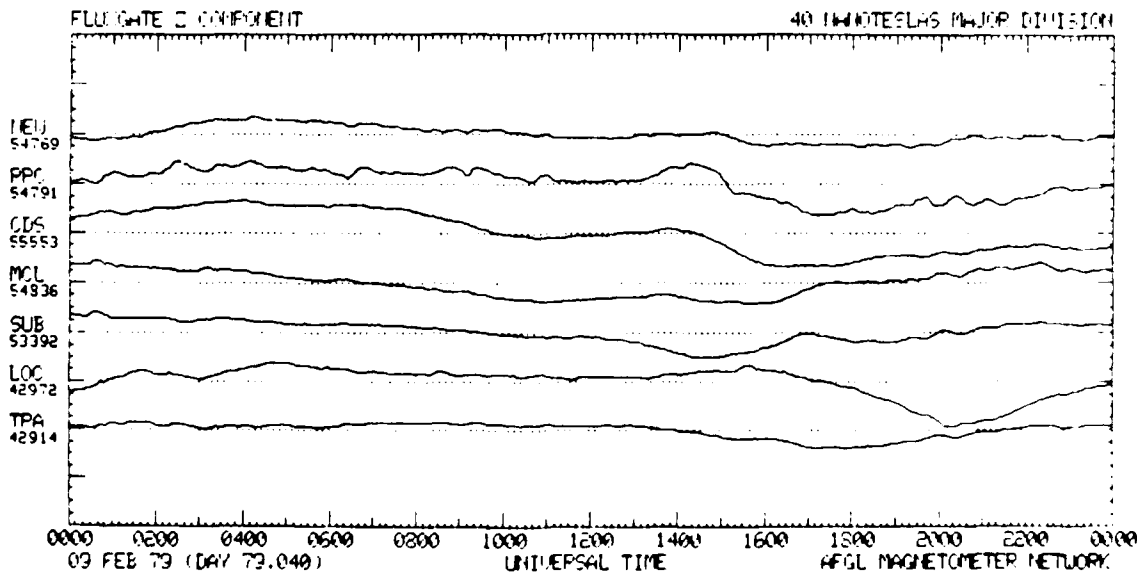
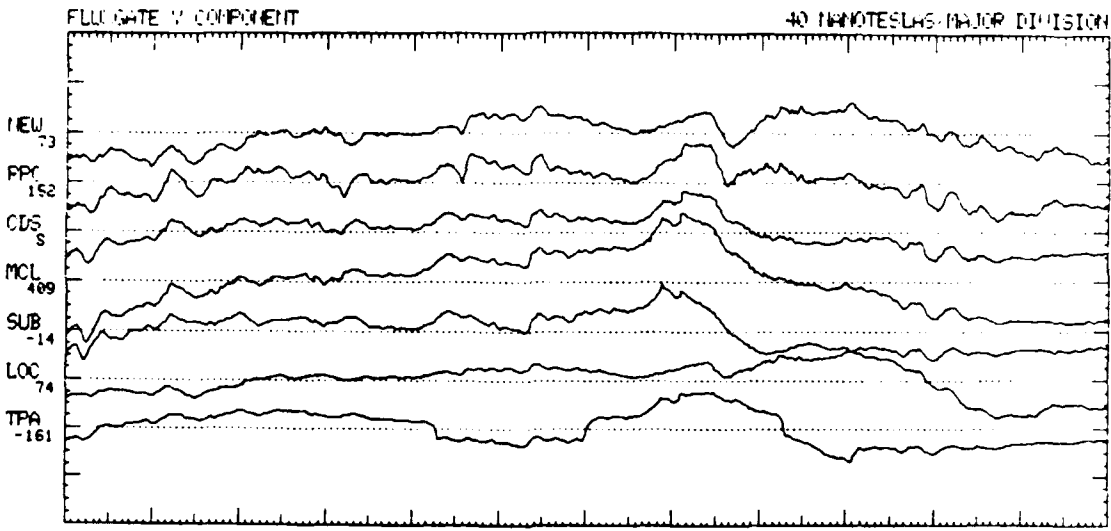
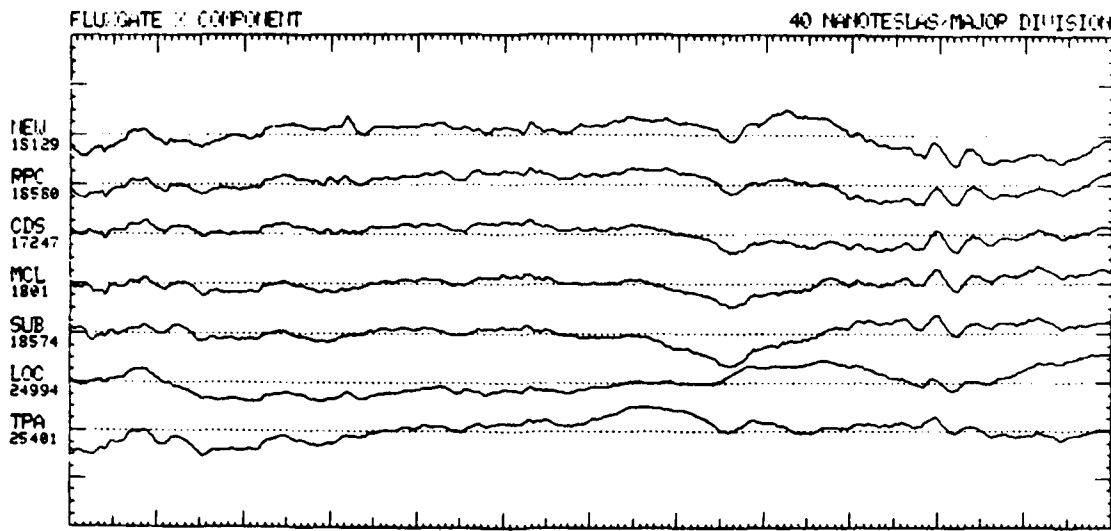








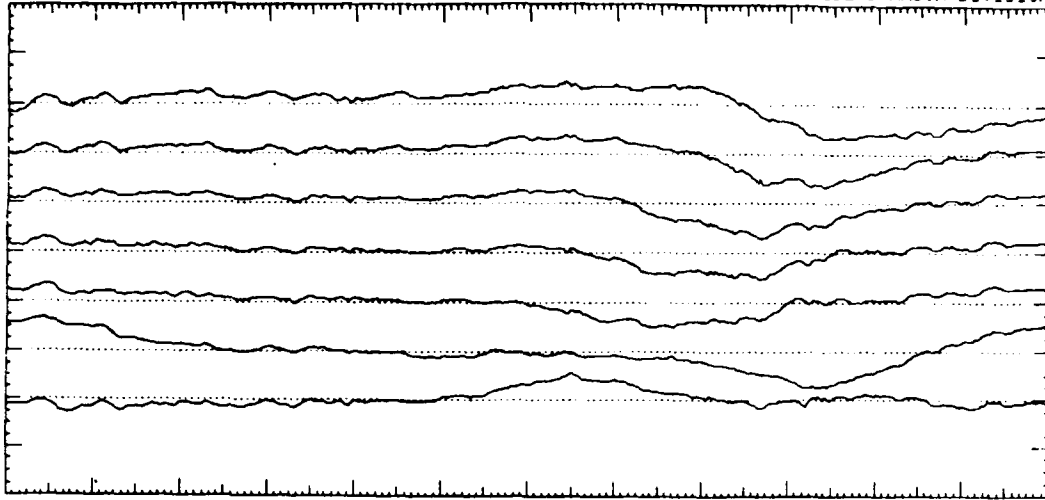




FLIGHTLINE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

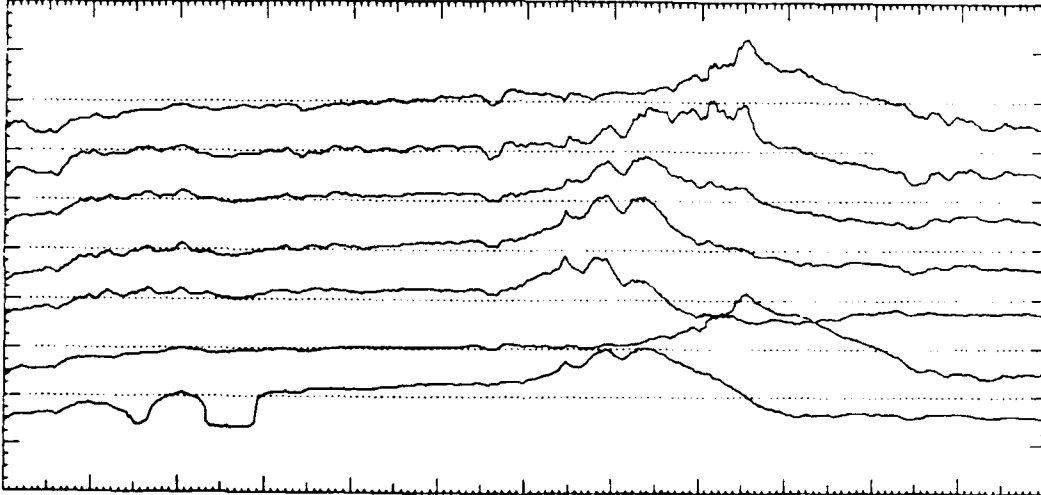
NEW
13132
PPC
18589
CDS
17247
MCL
18021
SUB
18571
LOC
24993
TPA
25405



FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

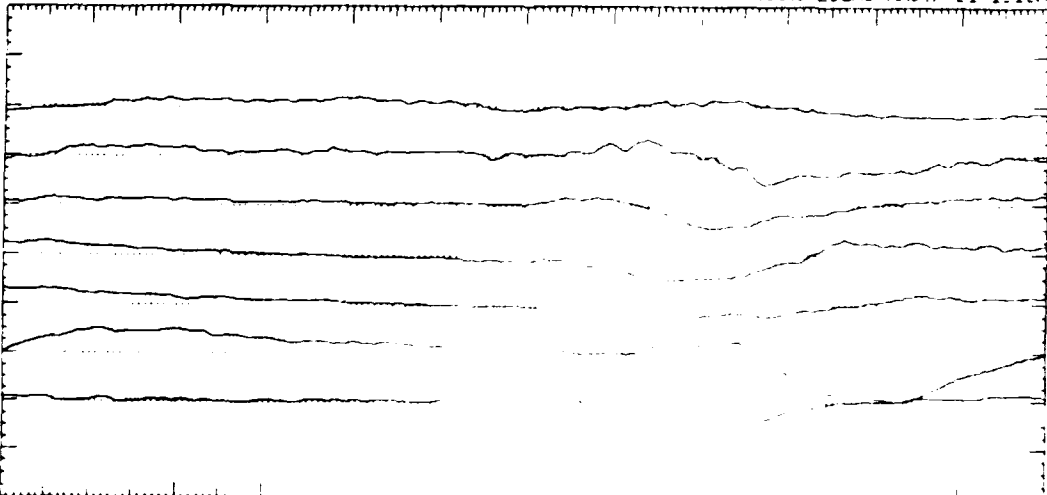
NEW
76
PPC
159
CDS
90
MCL
405
SUB
-14
LOC
77
TPA
-150



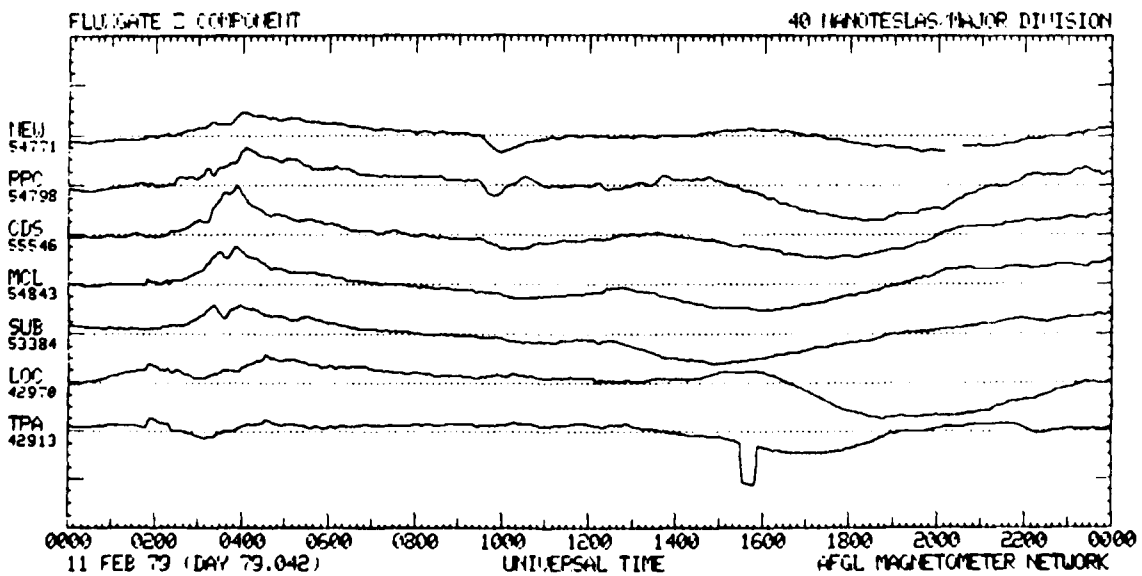
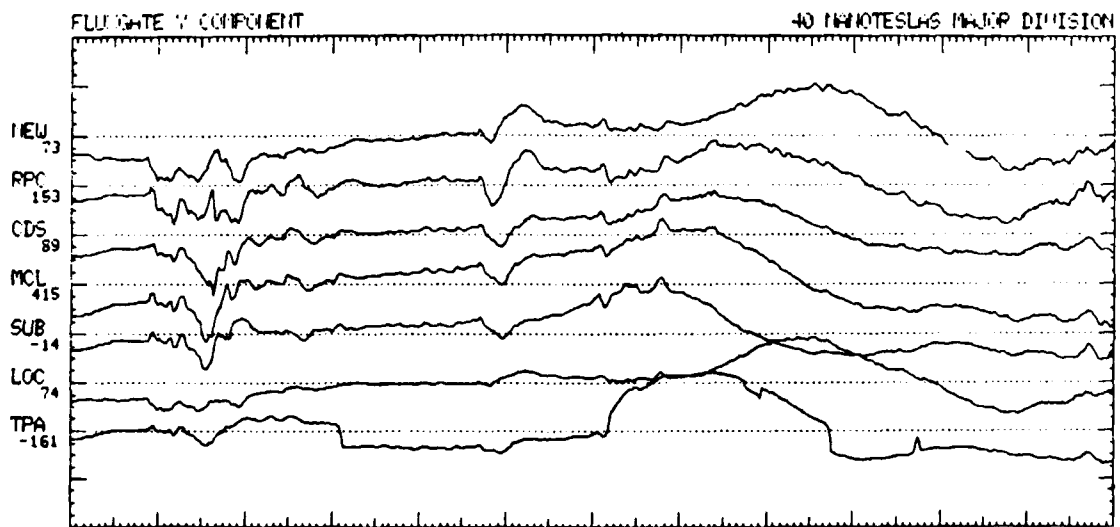
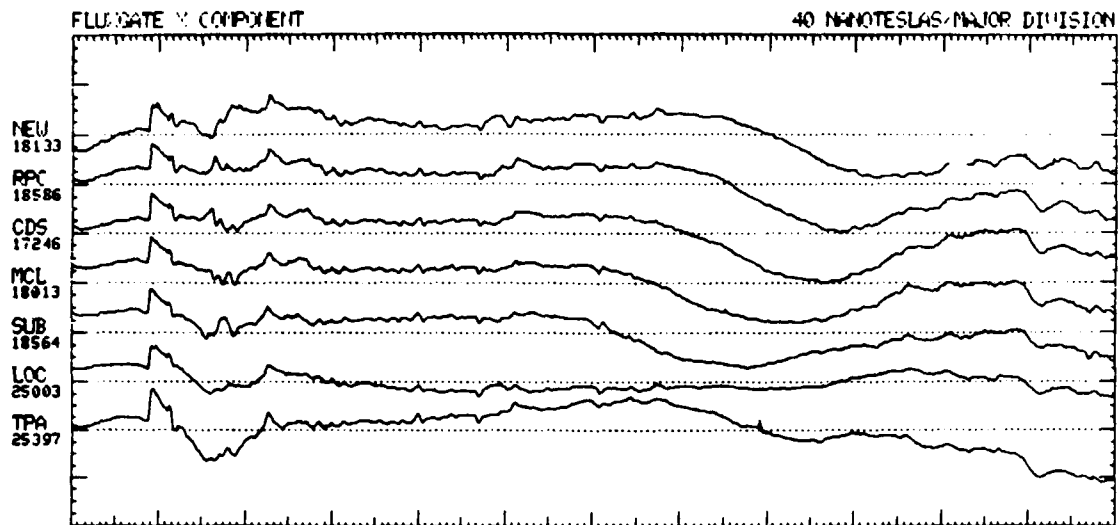
FLIGHTLINE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54772
PPC
54796
CDS
55538
MCL
54837
SUB
53385
LOC
42970
TPA
42914

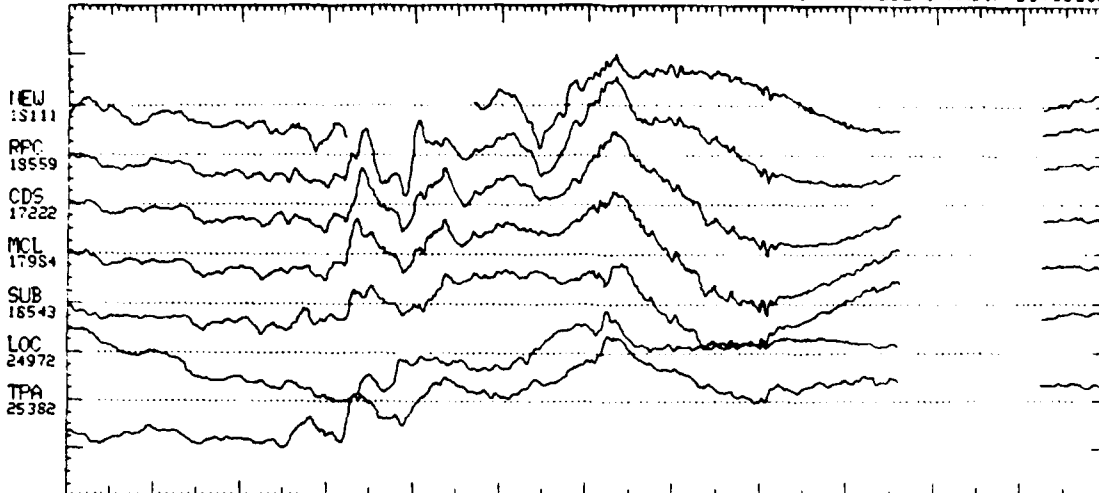


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
10 FEB 79 (DAY 79.041) 4000 MAGNETOMETER NETWORK



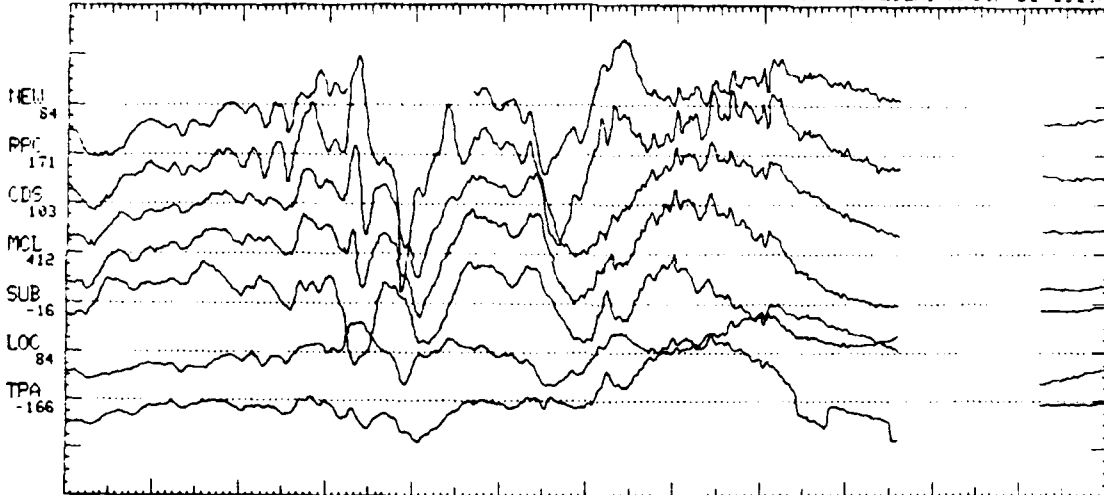
FLIGHTLINE X COMPONENT

40 NANOTESLAH MAJOR DIVISION



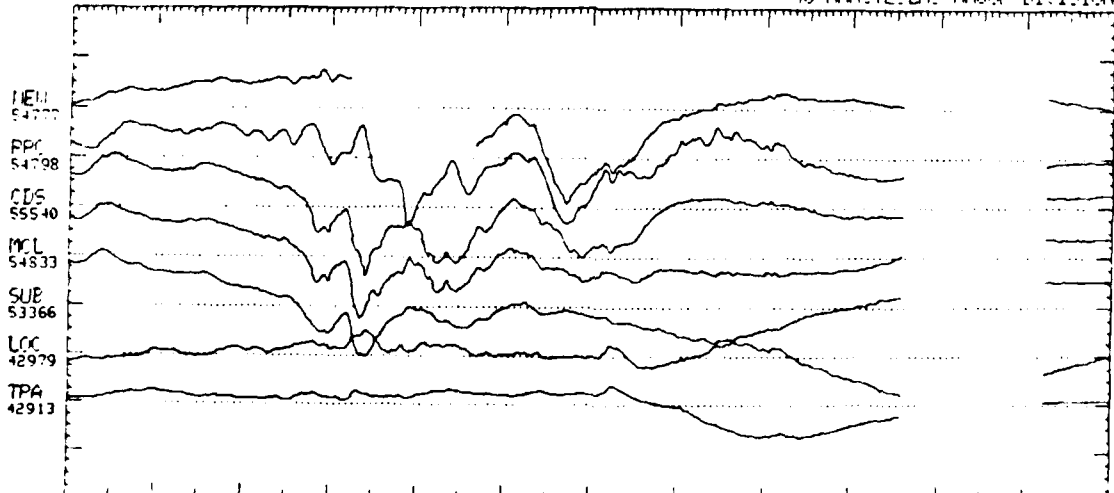
FLIGHTLINE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION

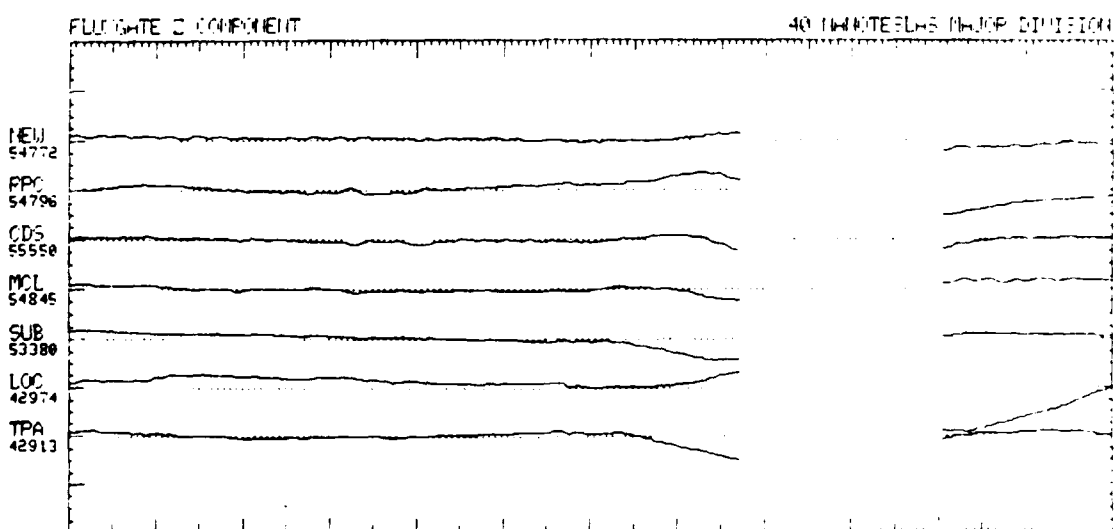
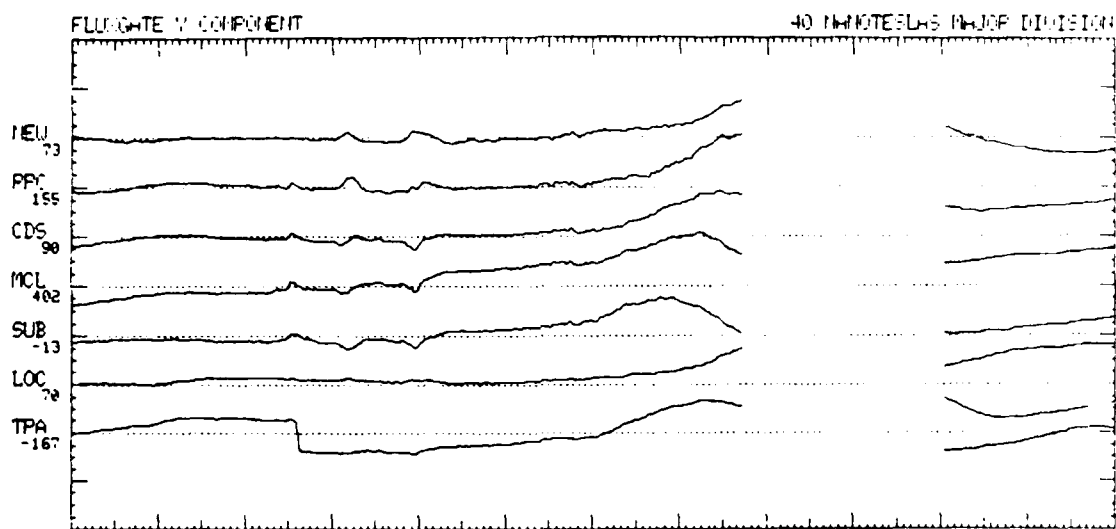
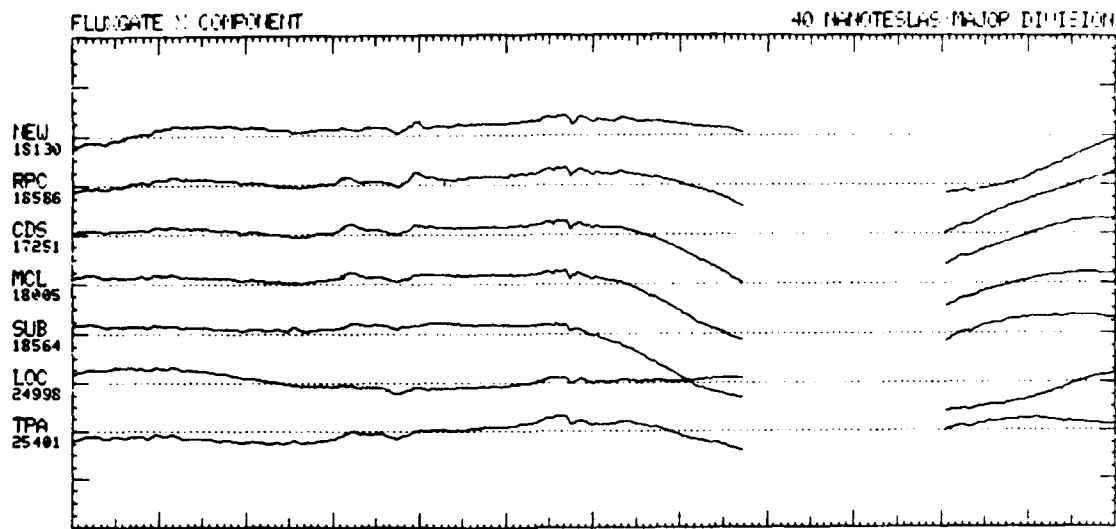


FLIGHTLINE Z COMPONENT

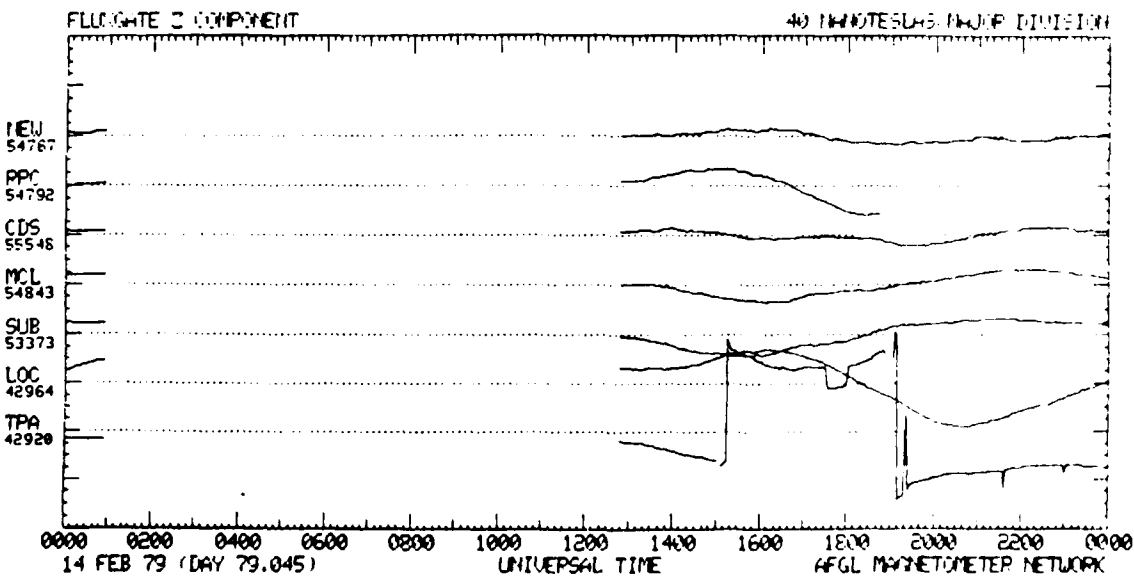
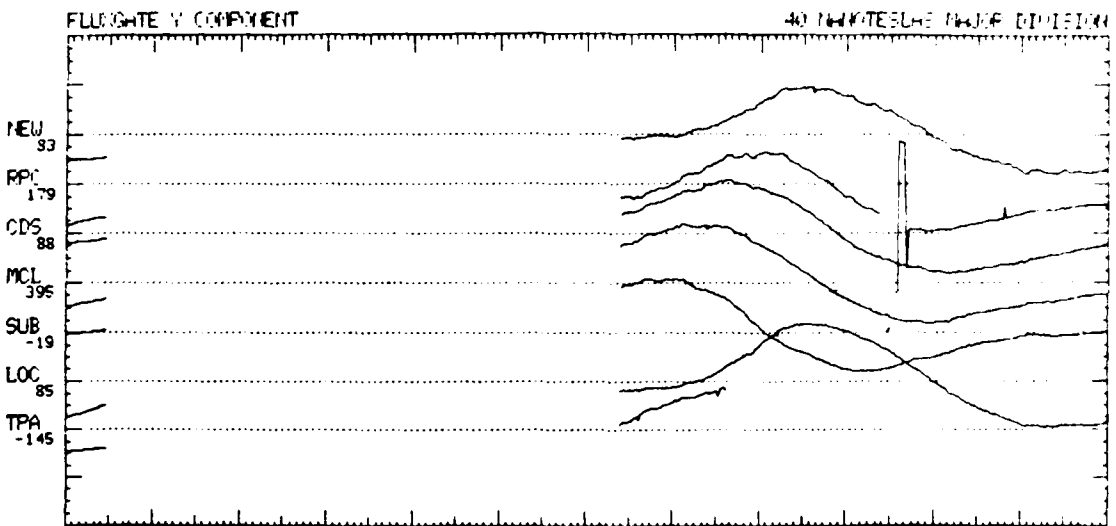
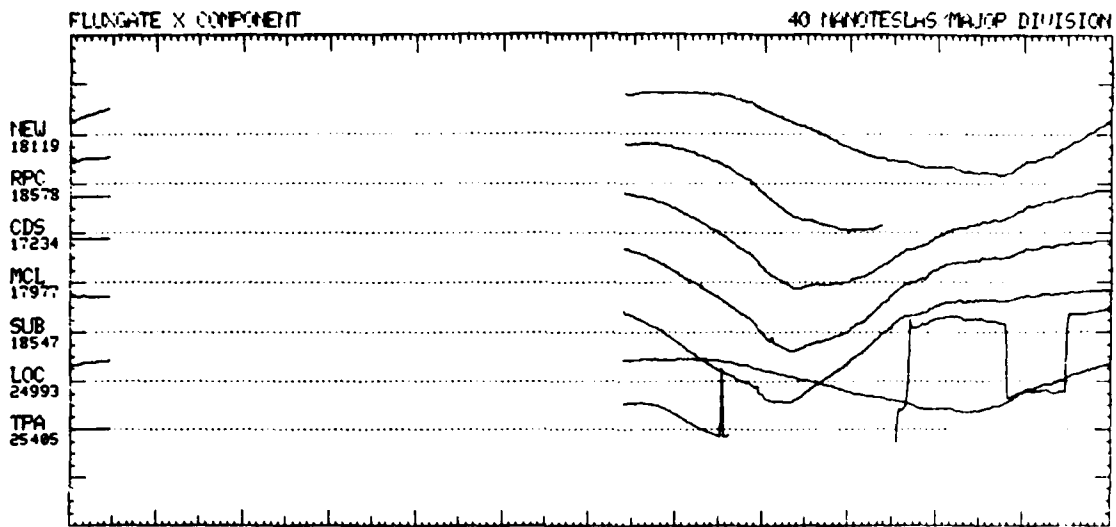
40 NANOTESLAH MAJOR DIVISION

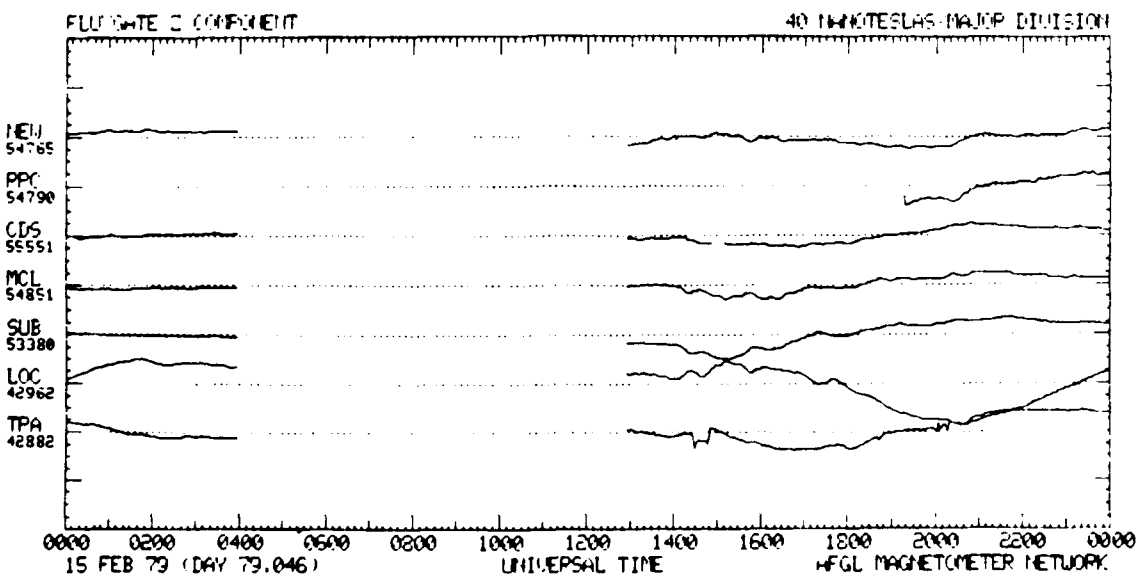
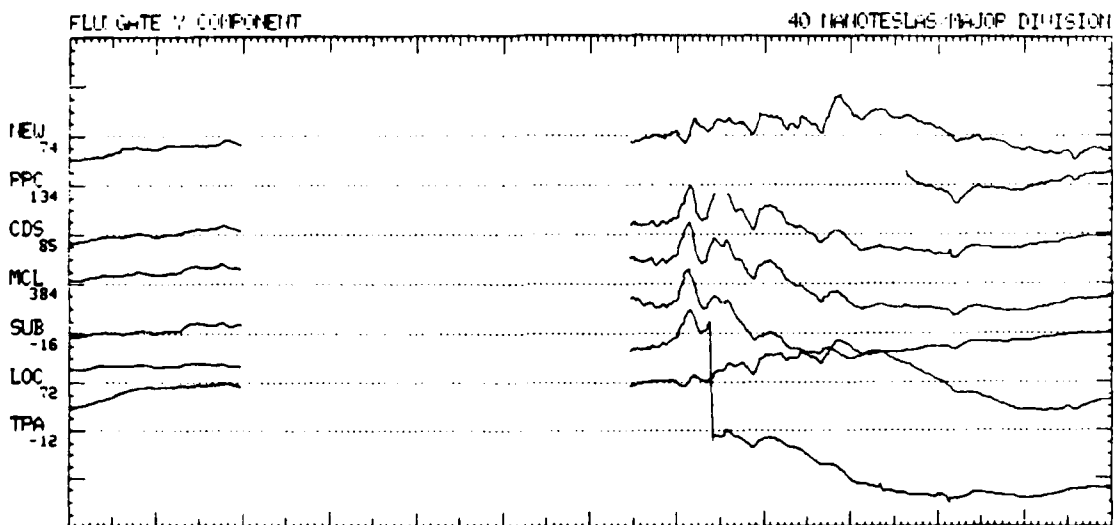
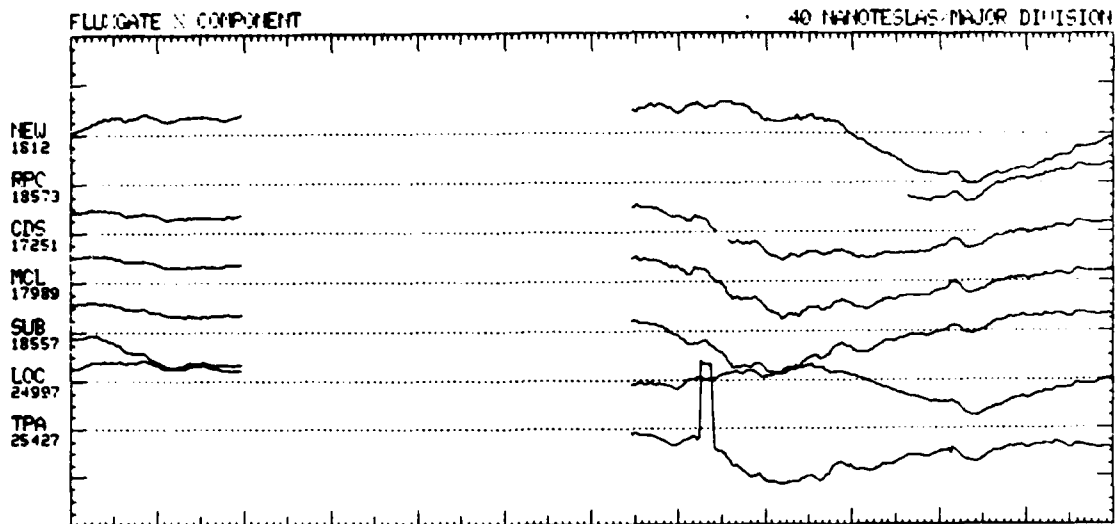


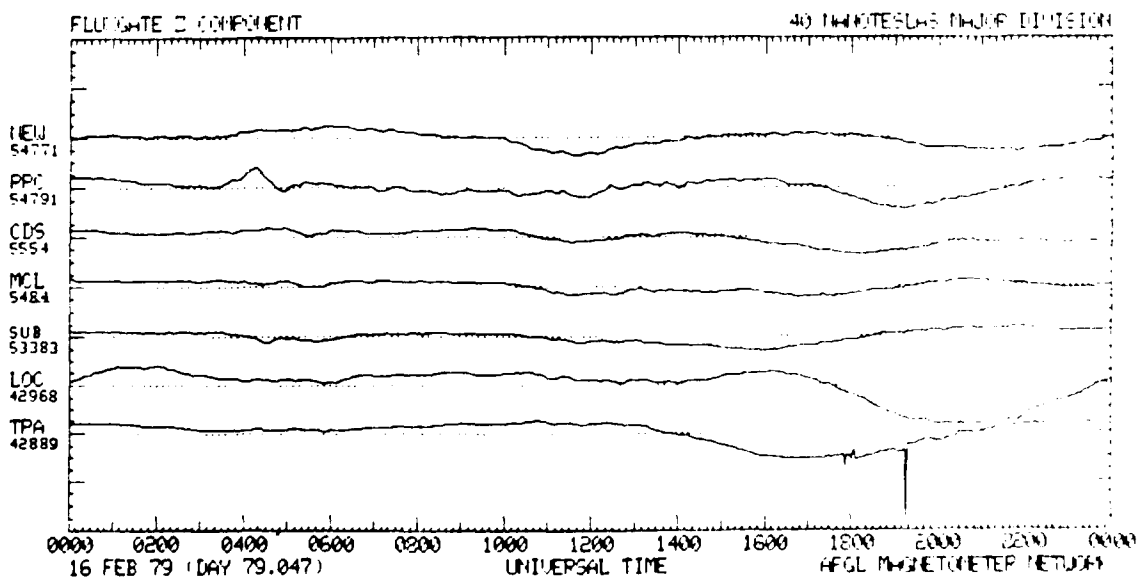
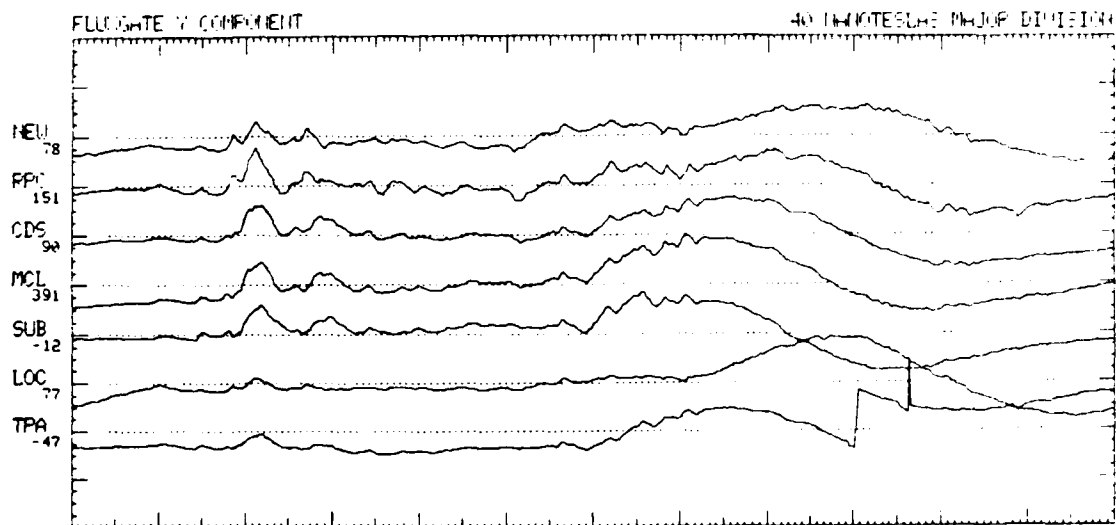
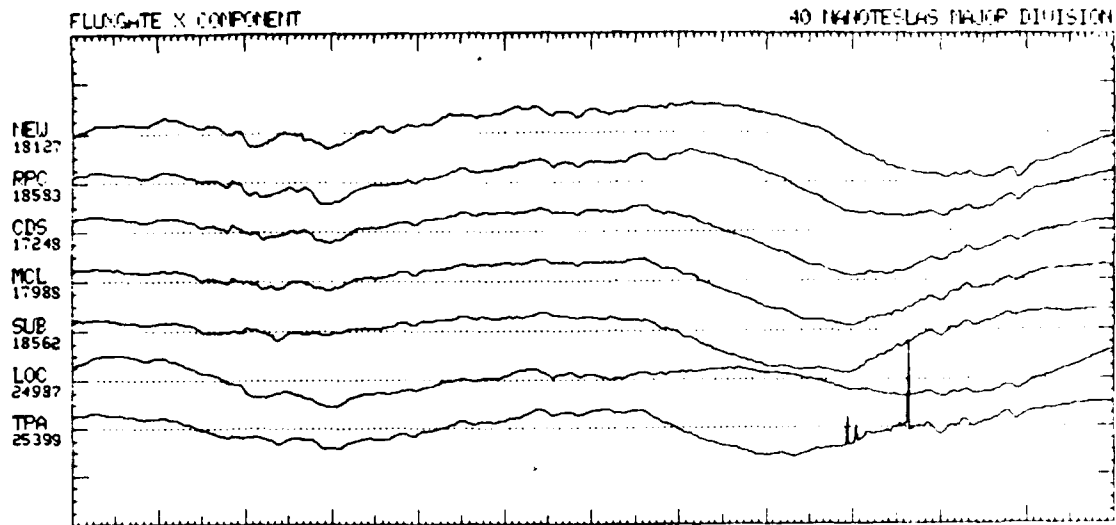
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 FEB 79 (DAY 79.043) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



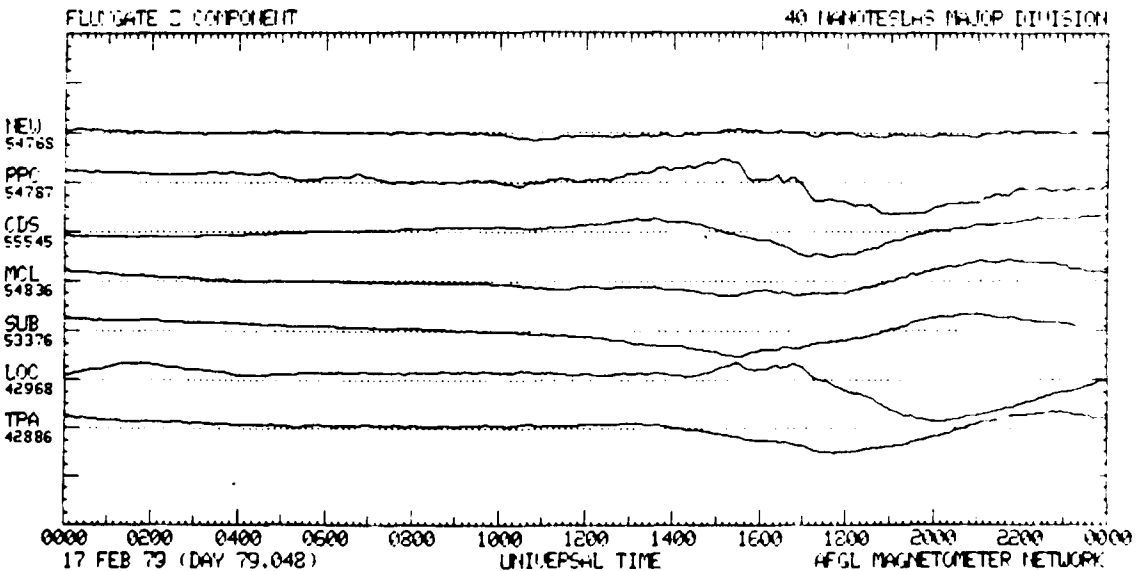
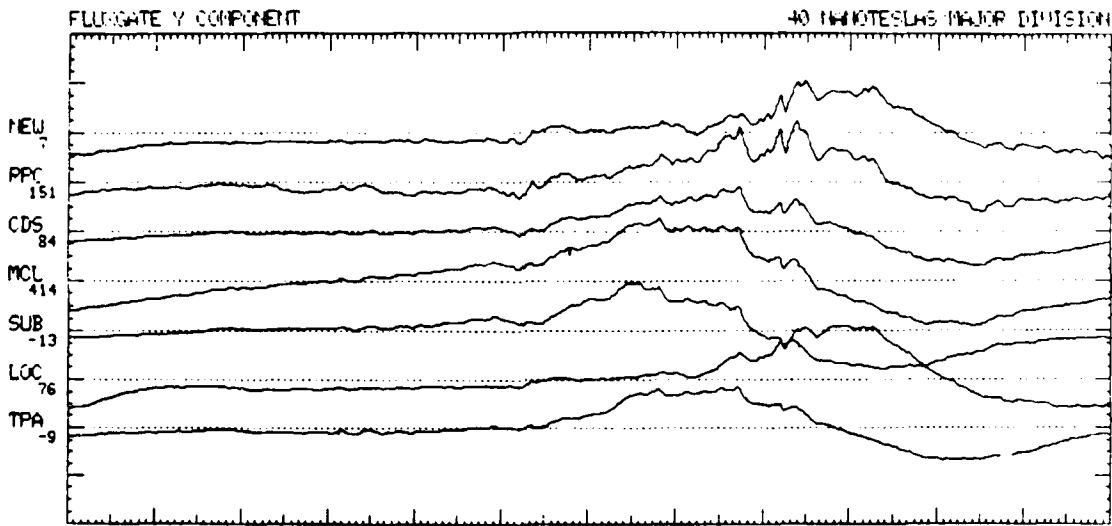
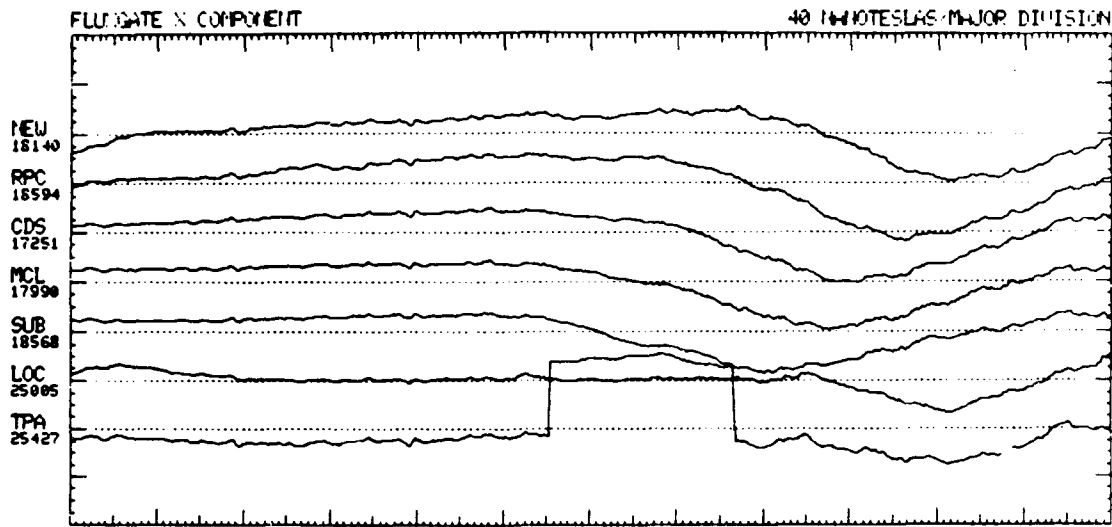
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 13 FEB 79 (DAY 79.044) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK

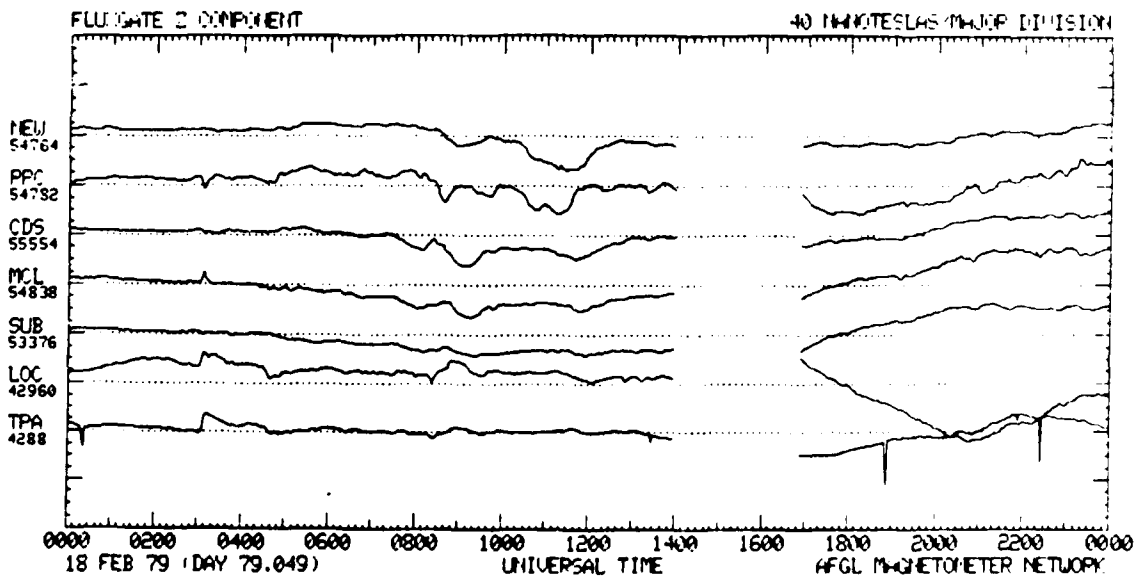
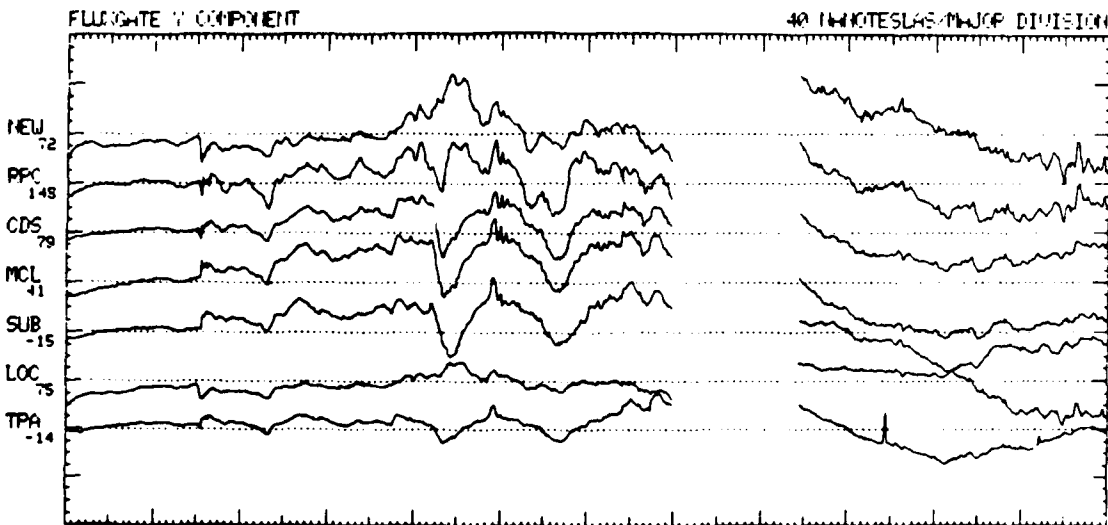
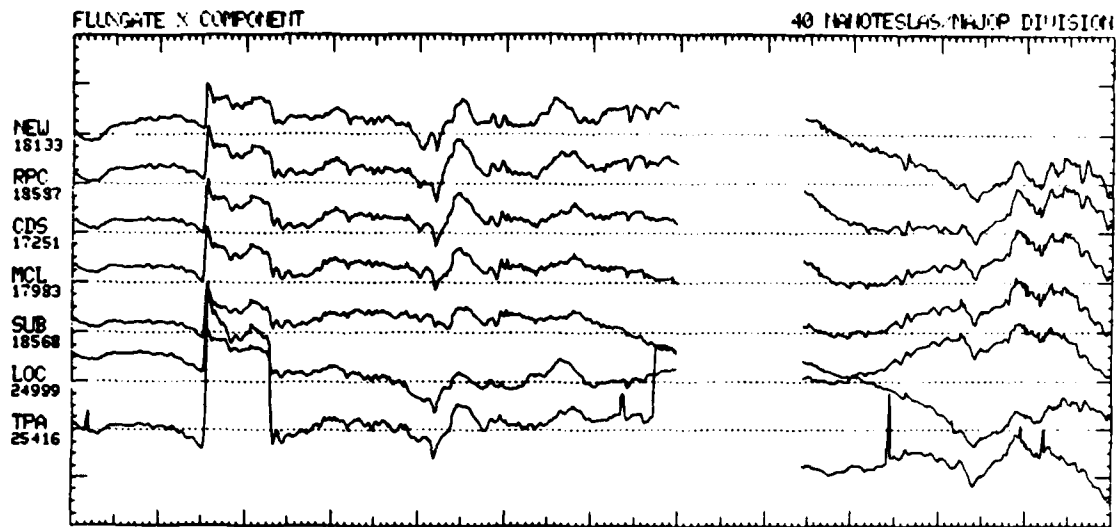


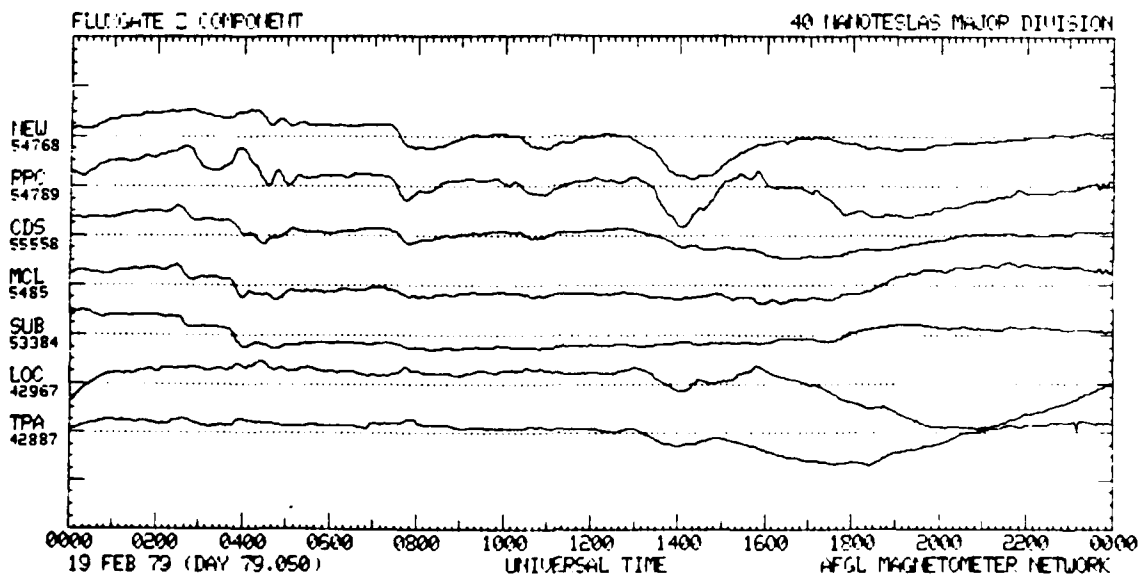
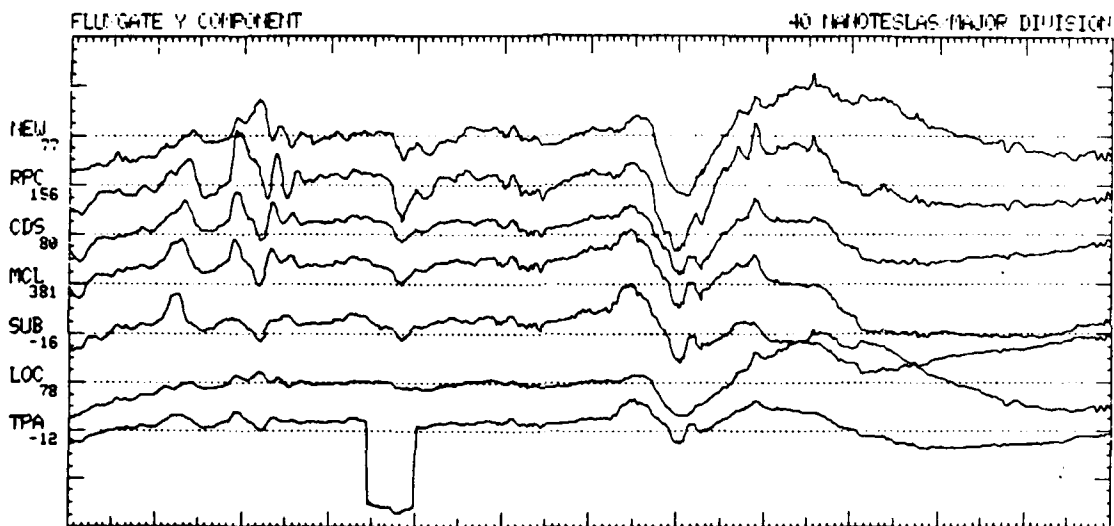
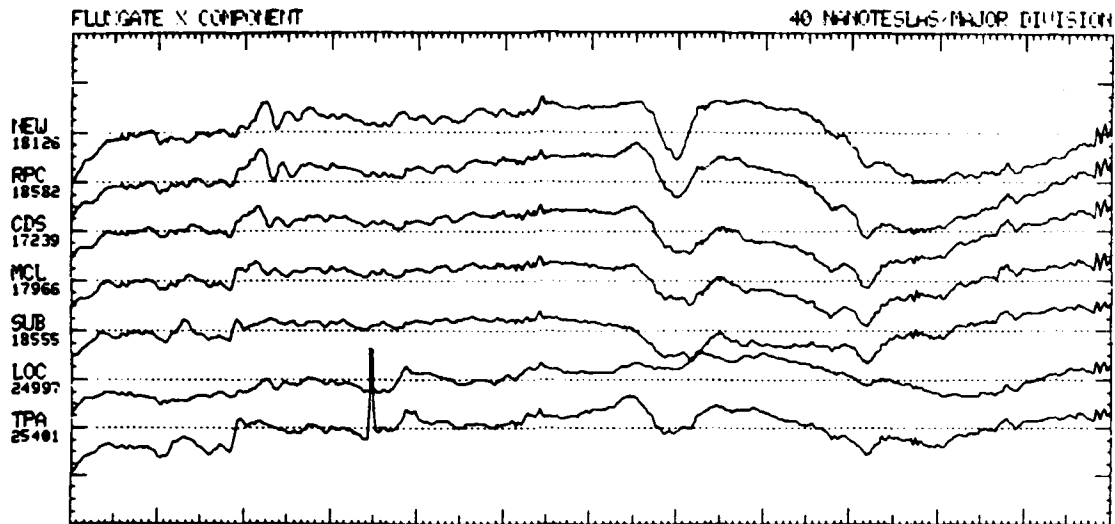


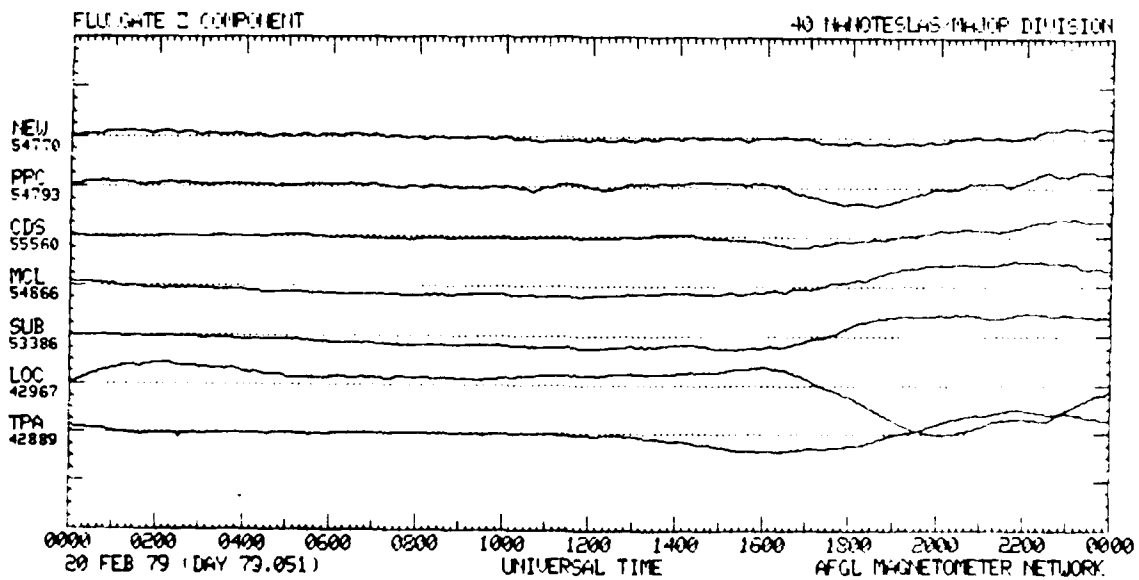
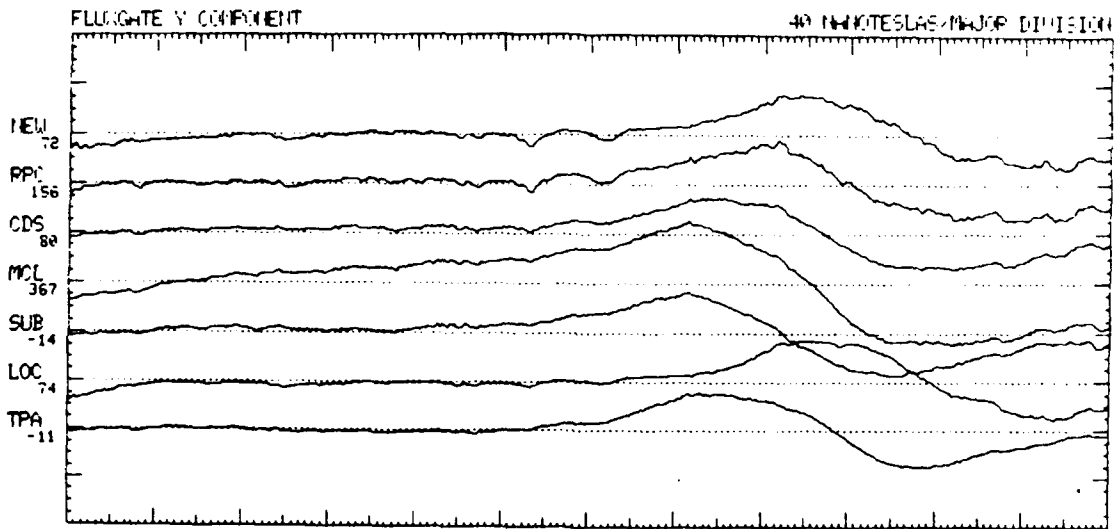
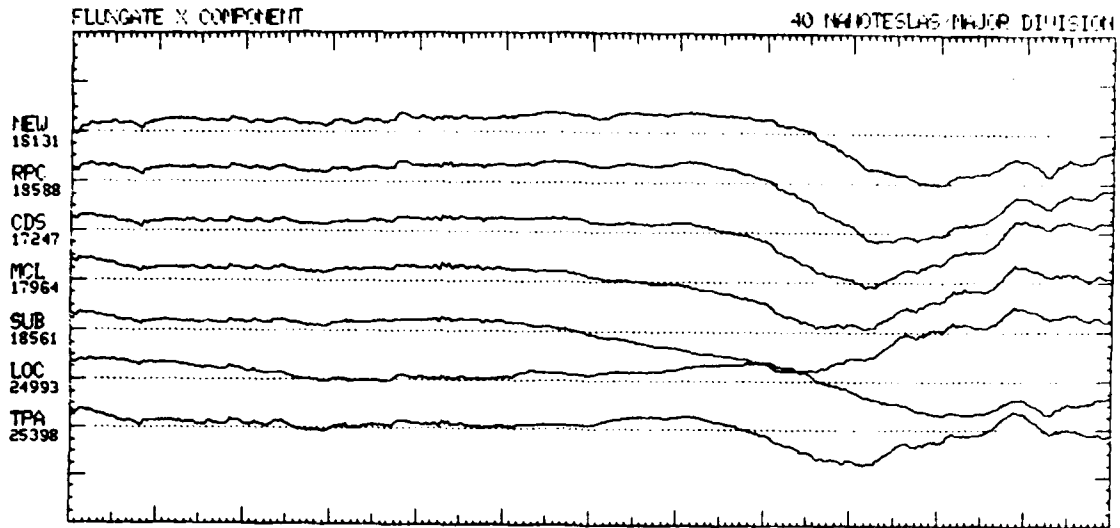


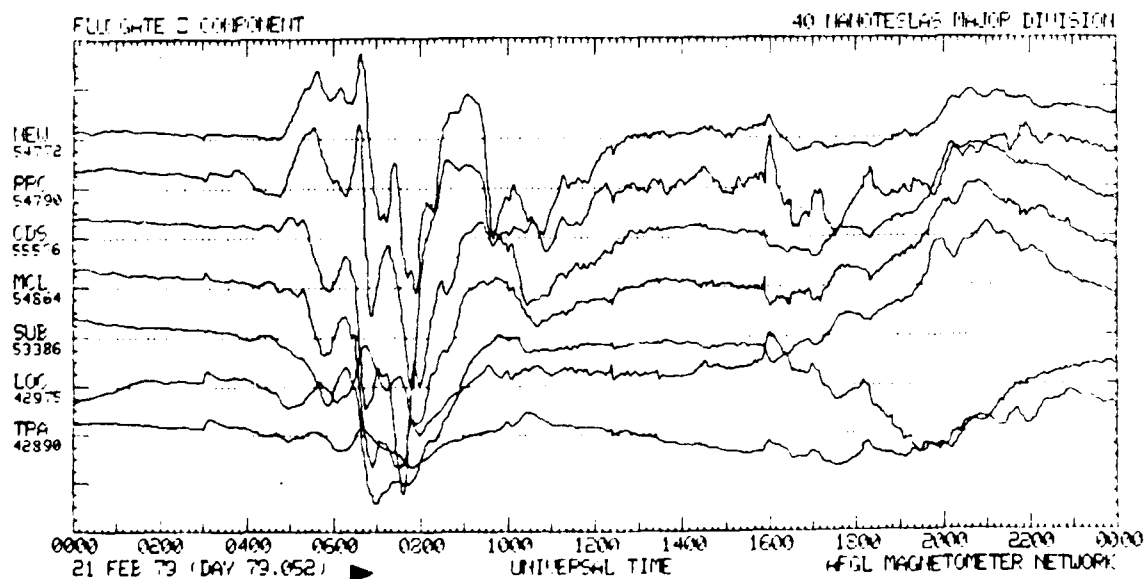
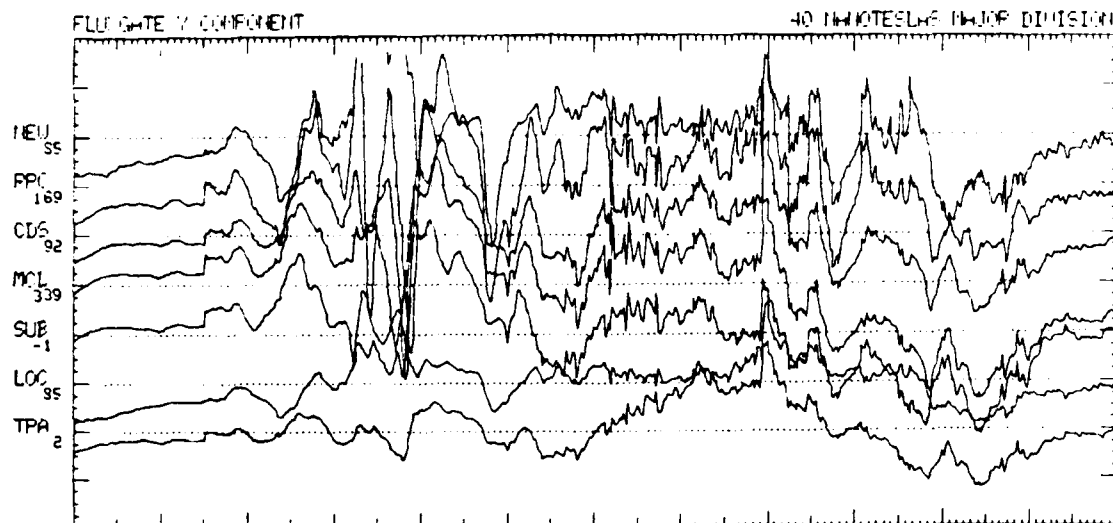
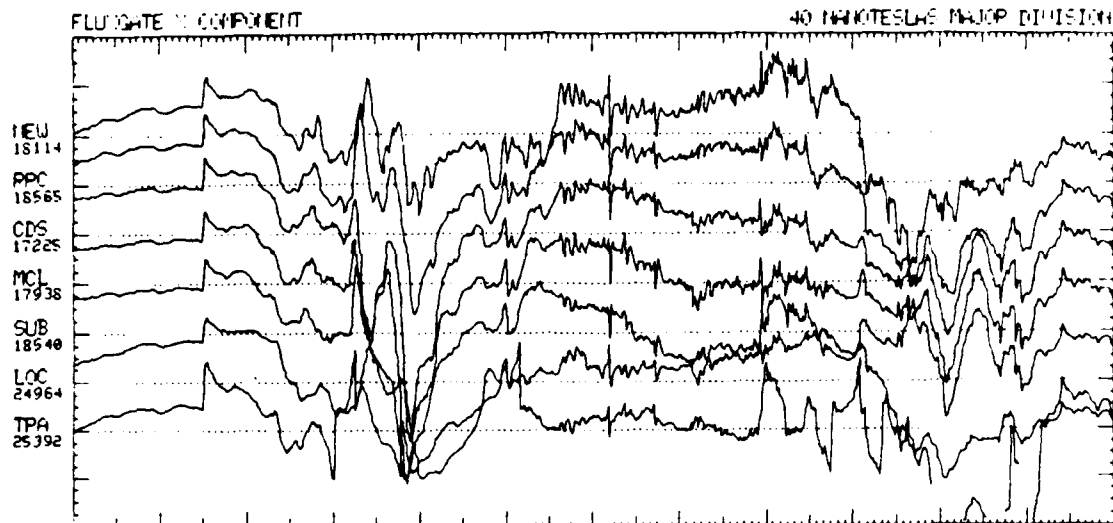
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 16 FEB 79 (DAY 79.047) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

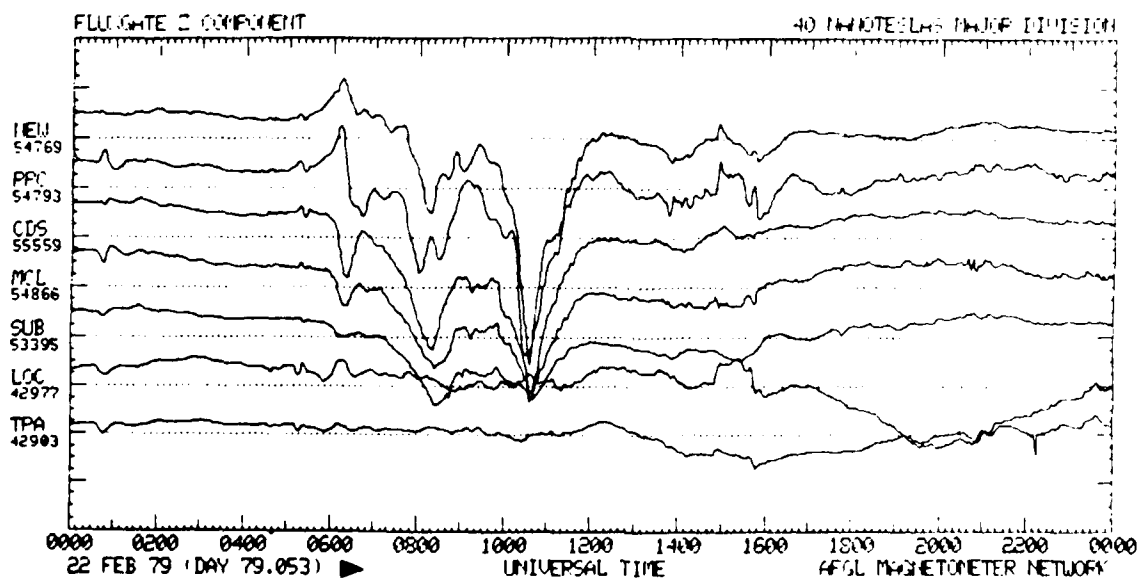
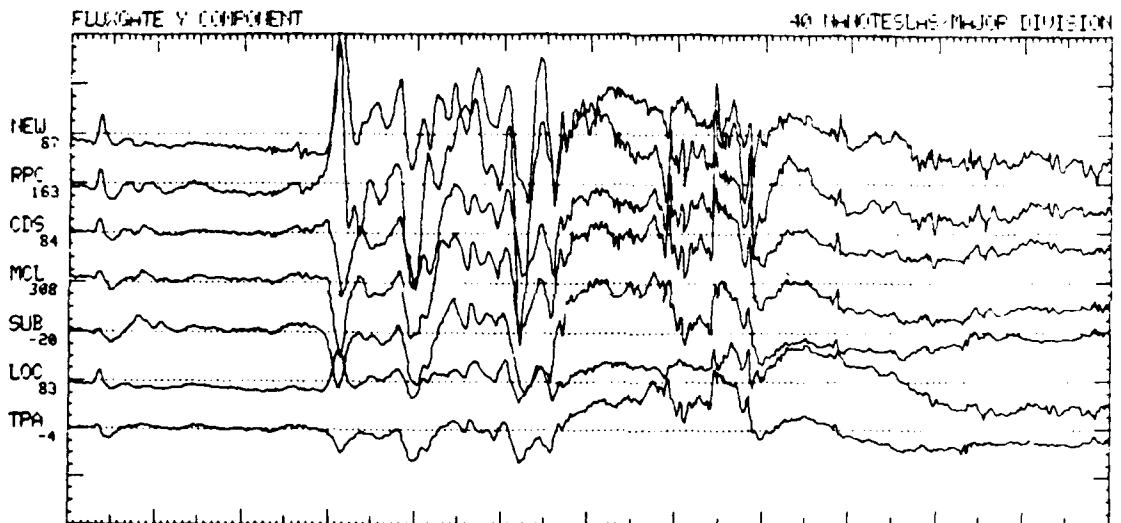
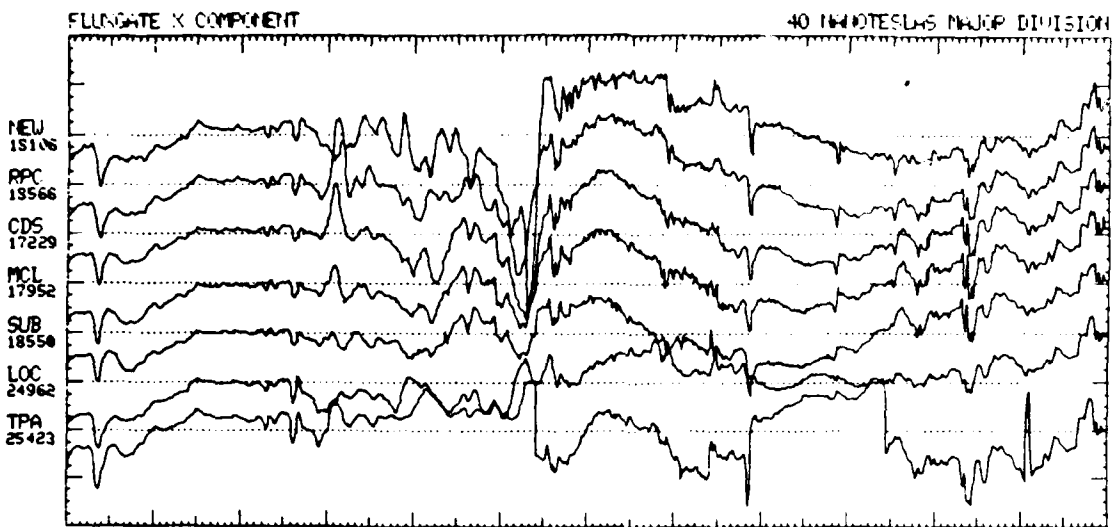


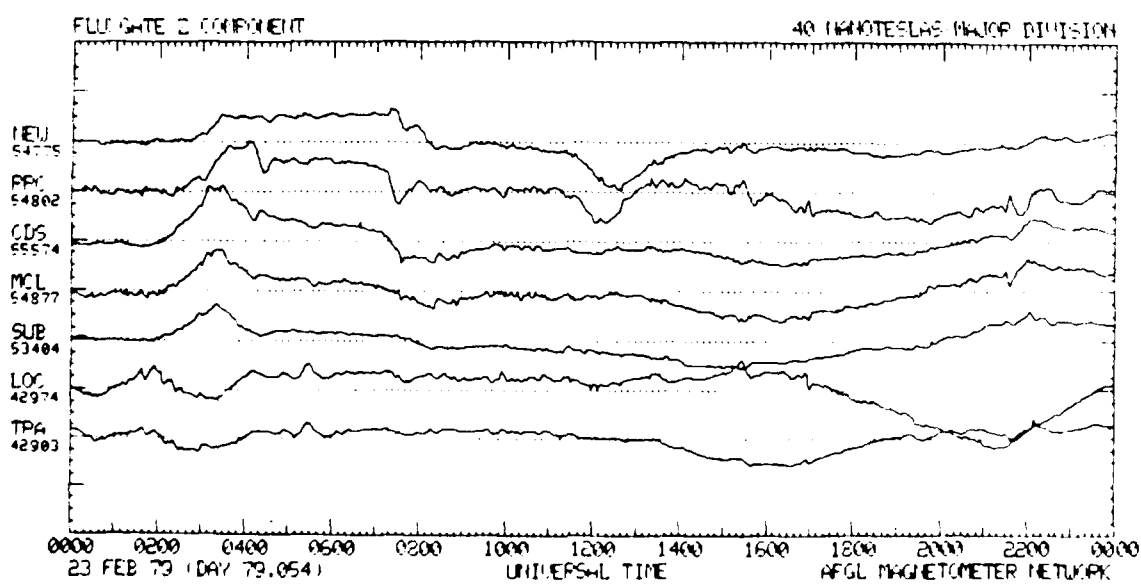
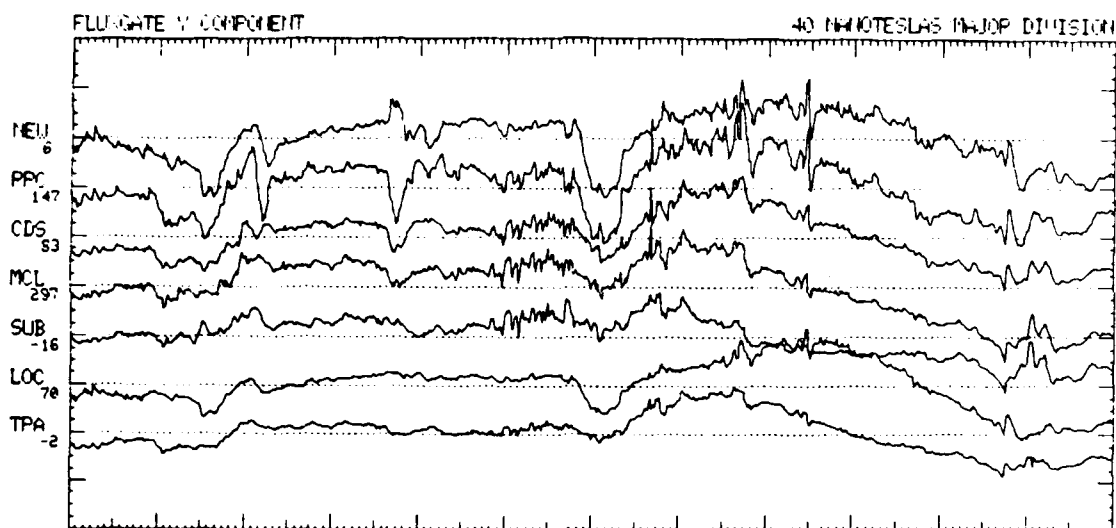
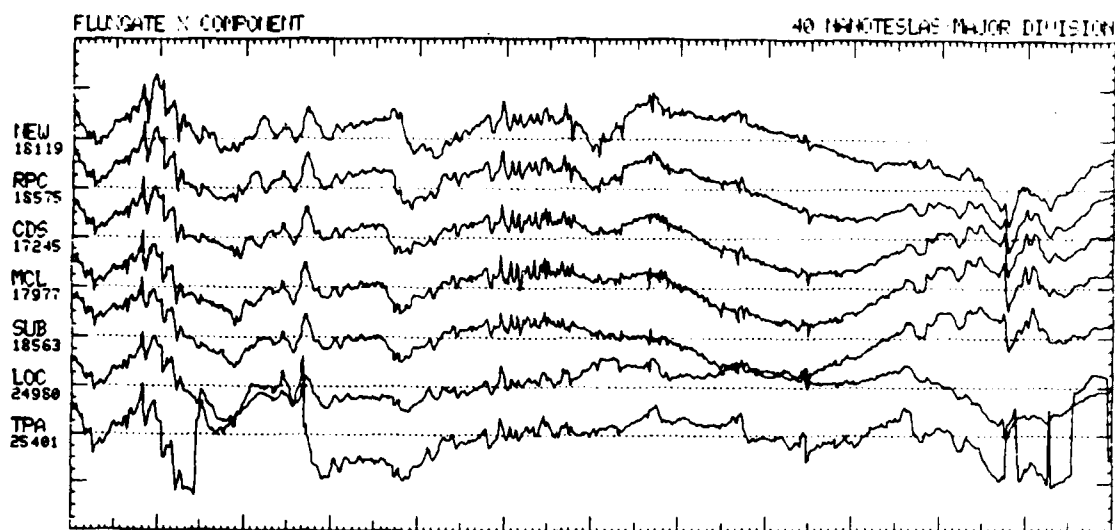


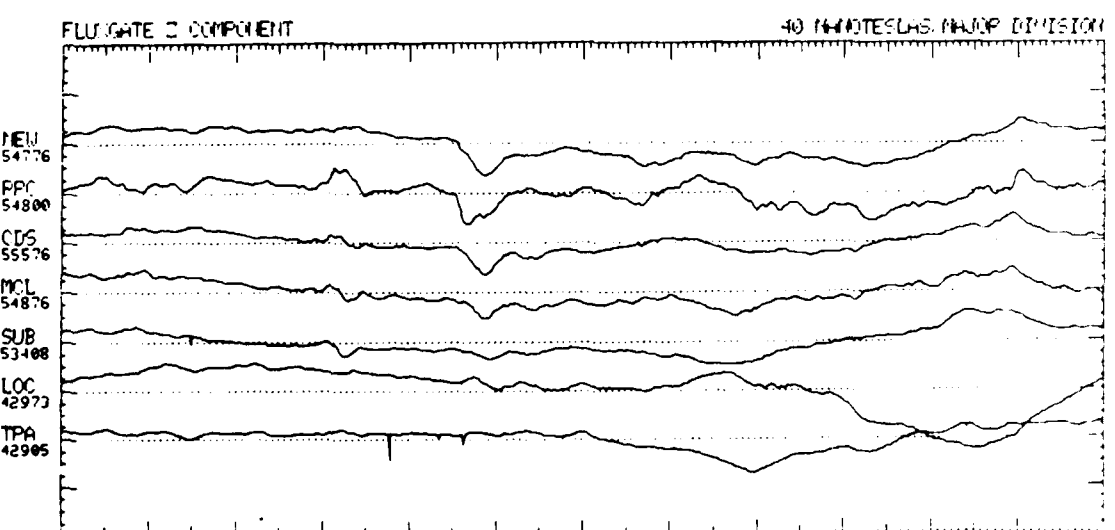
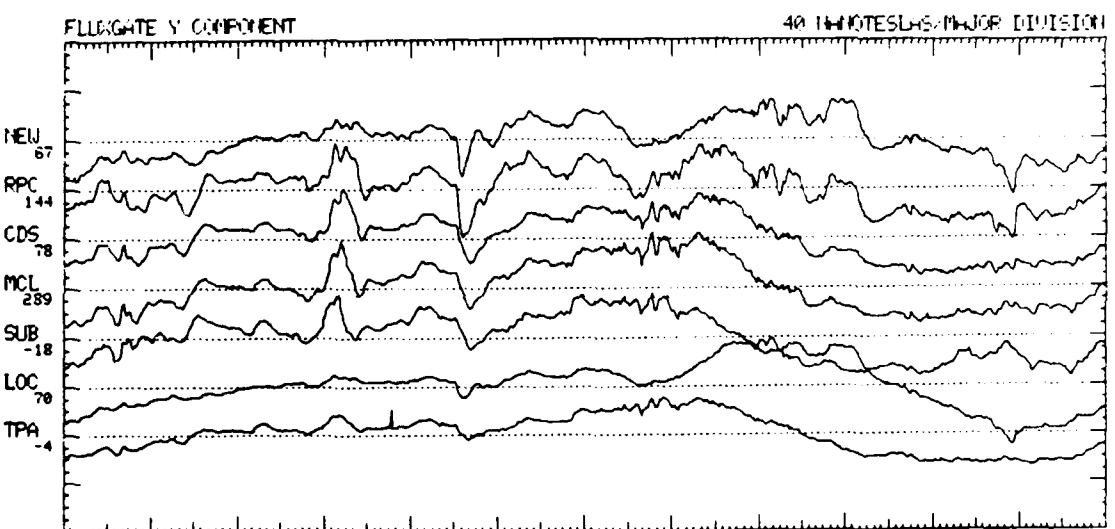
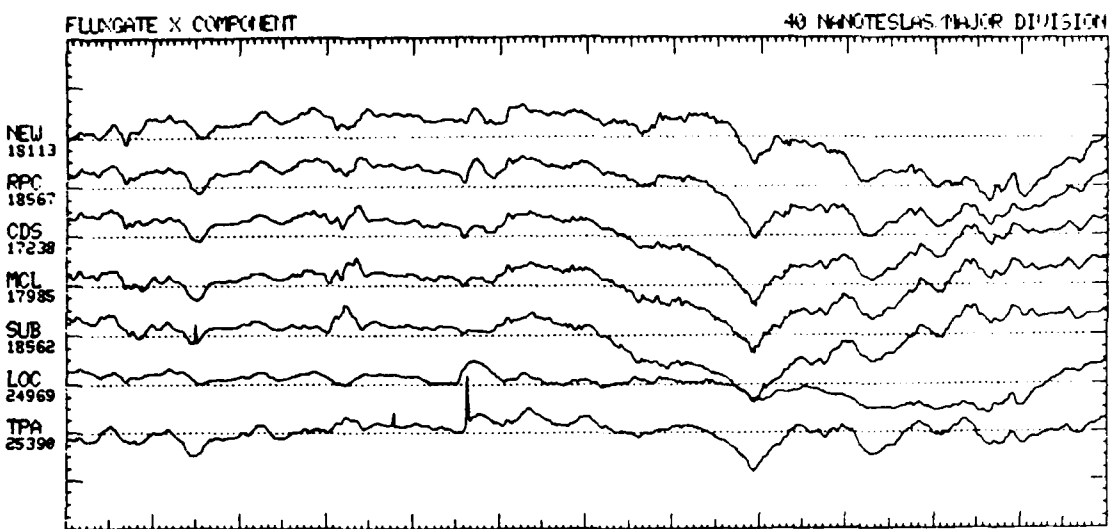




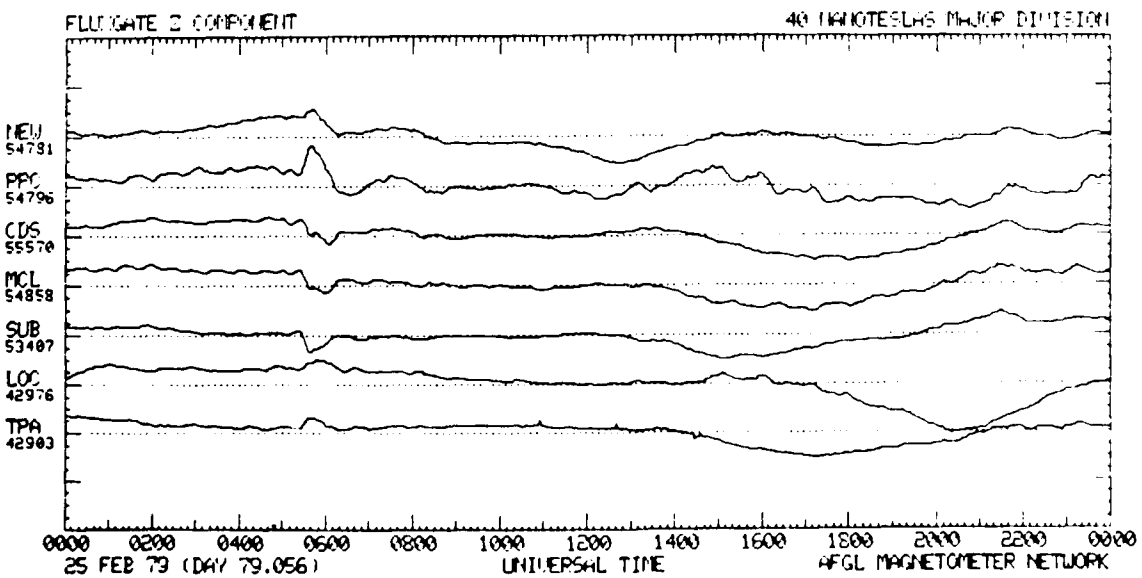
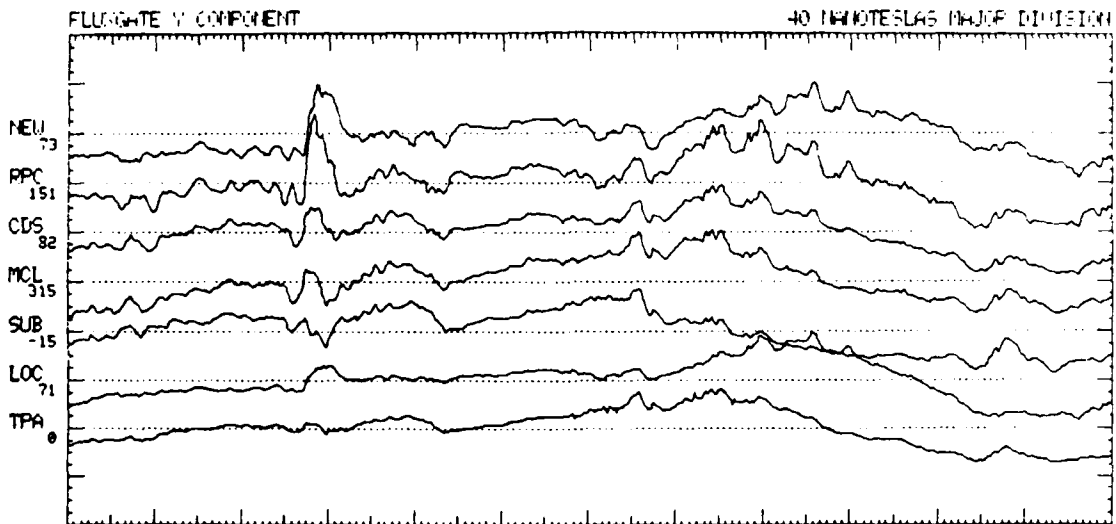
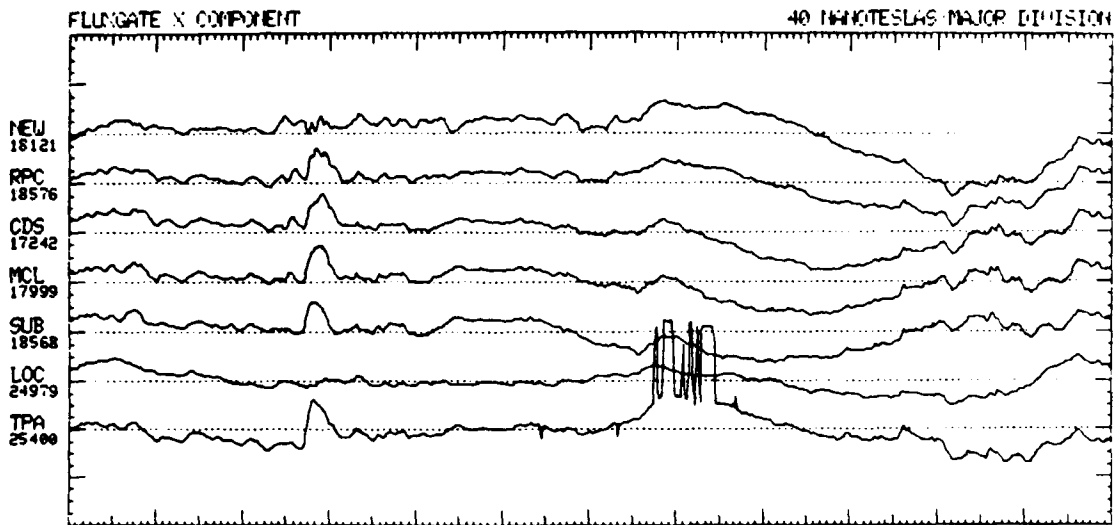


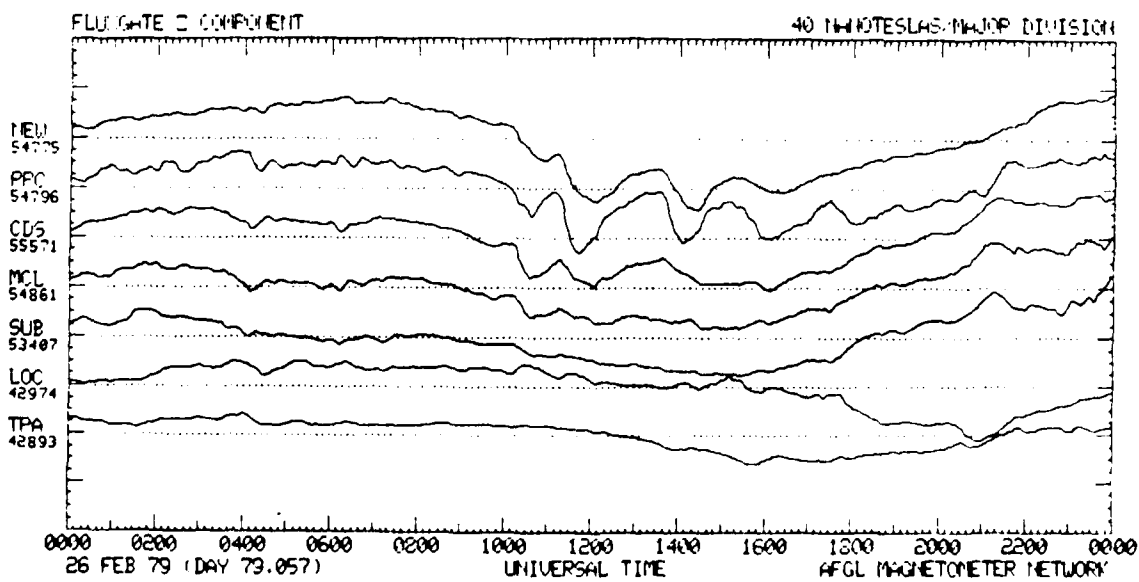
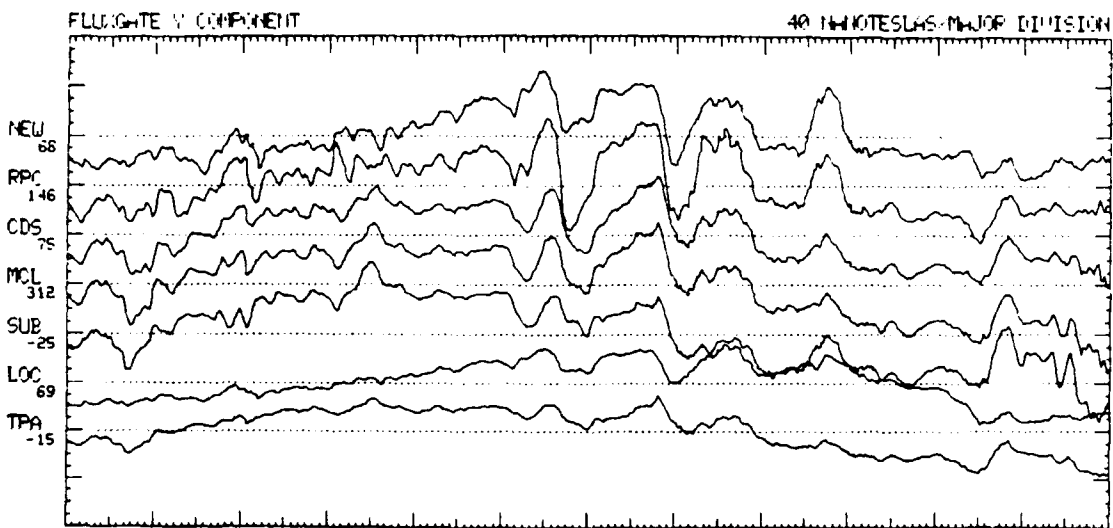
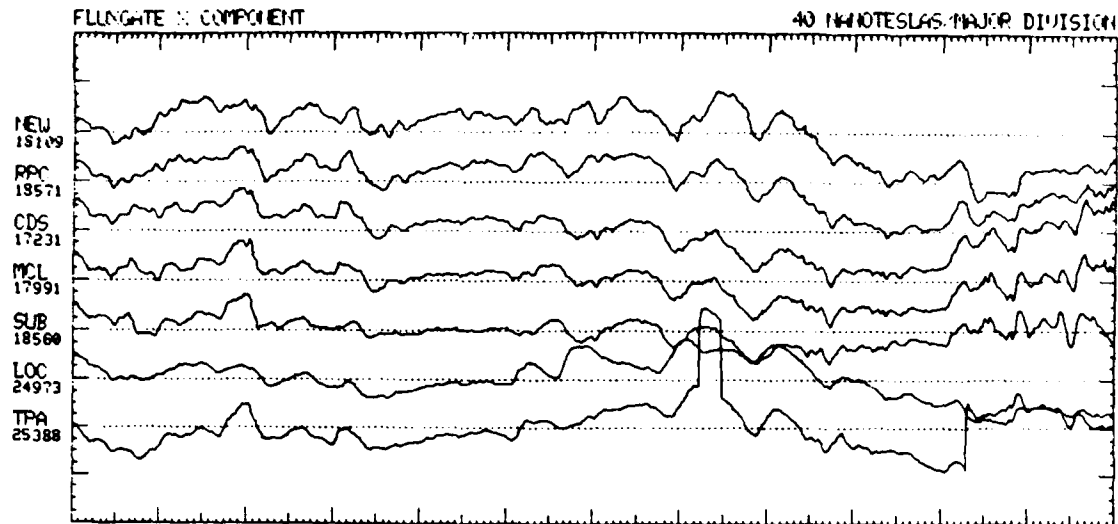


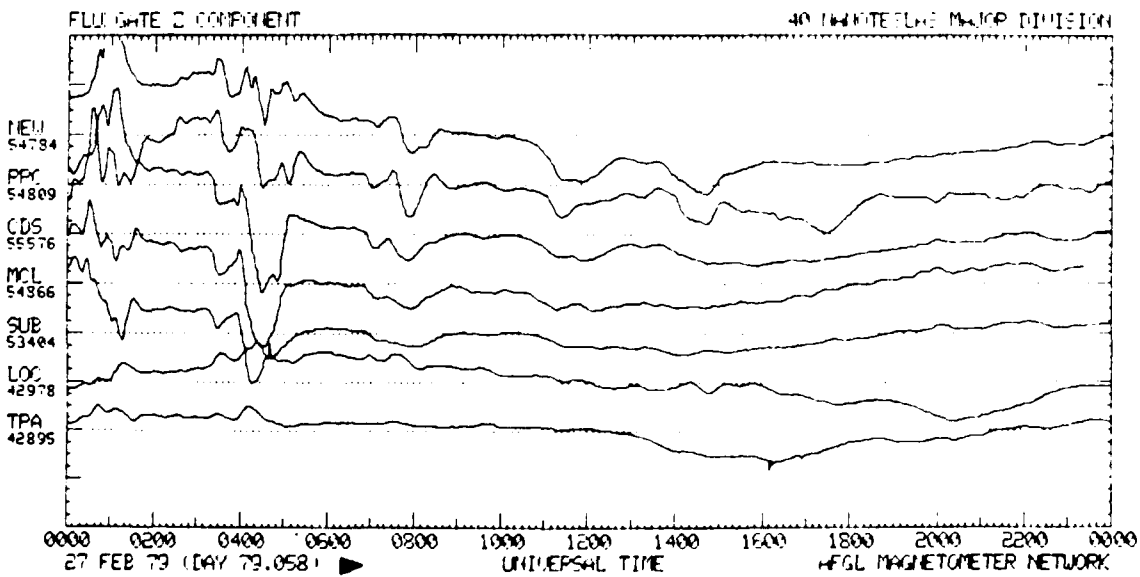
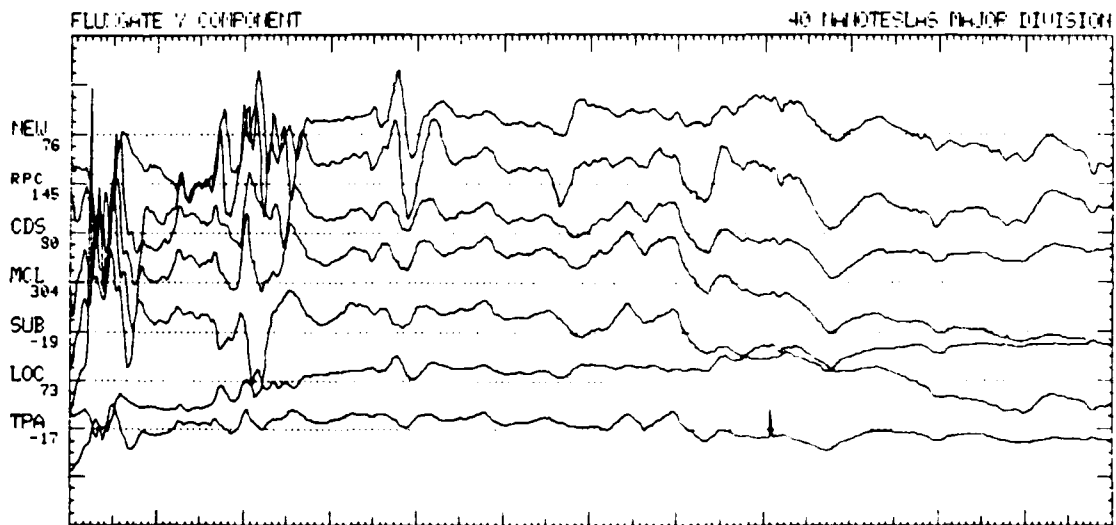
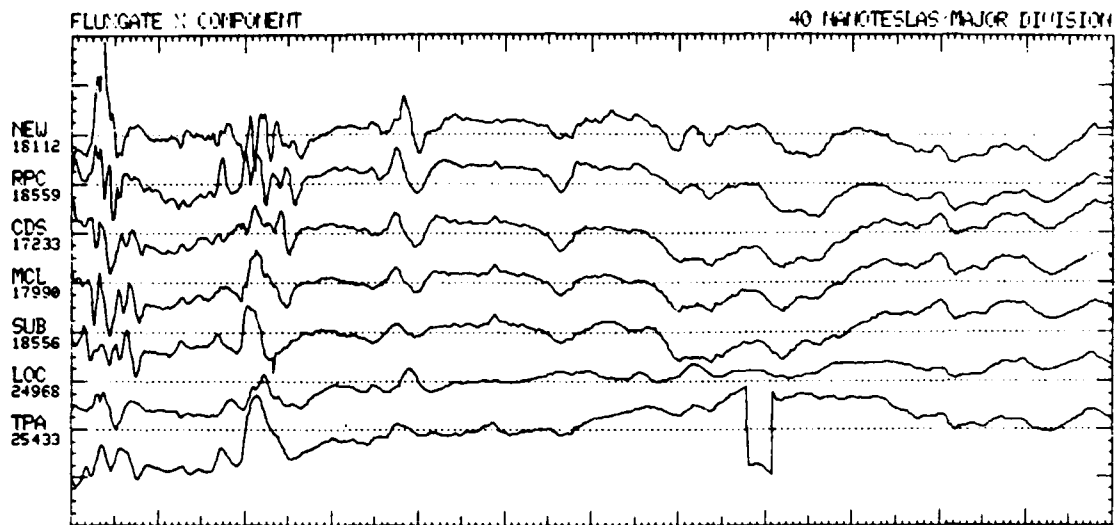




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 24 FEB 79 (DAY 79.055) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



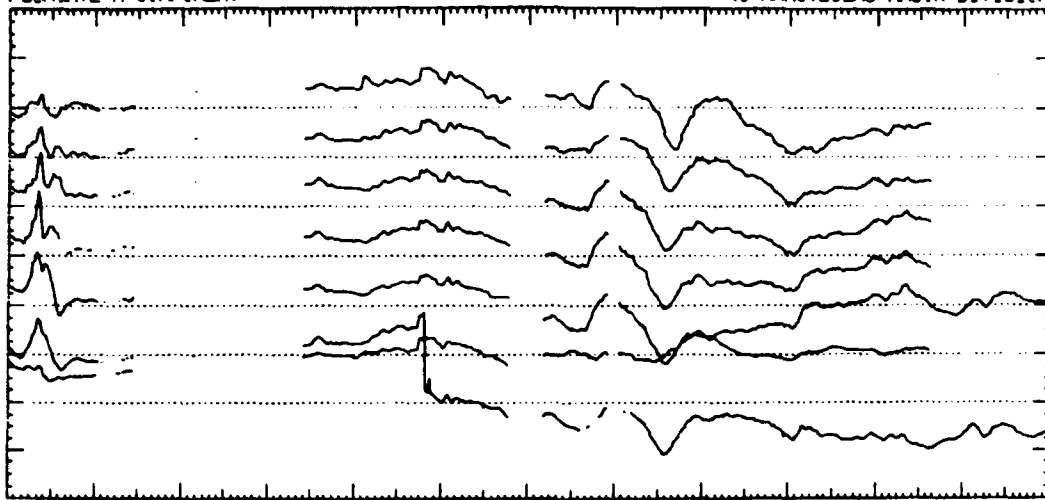




FLIGHT 1 X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

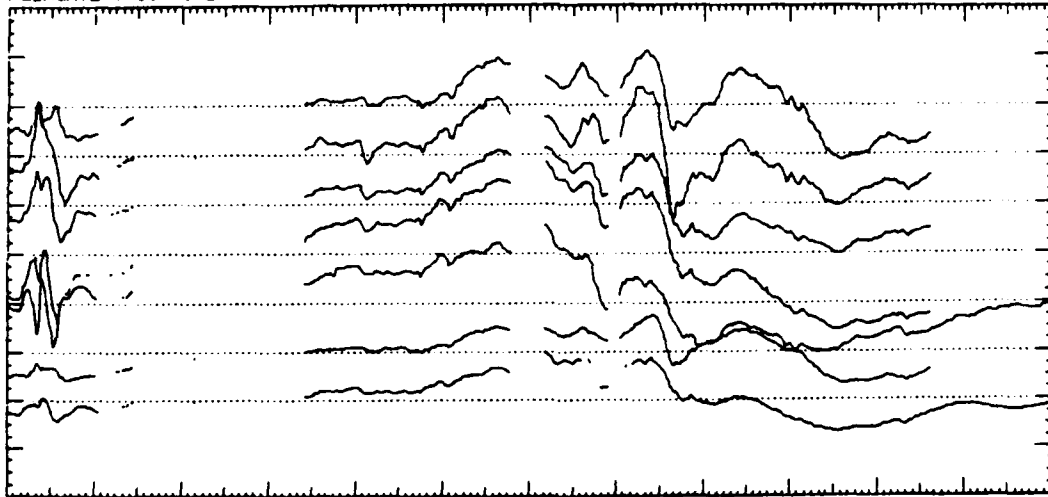
NEW
18118
RPC
18556
CDS
17239
MCL
17993
SUB
18560
LOC
24984
TPA
25392



FLIGHT 1 Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

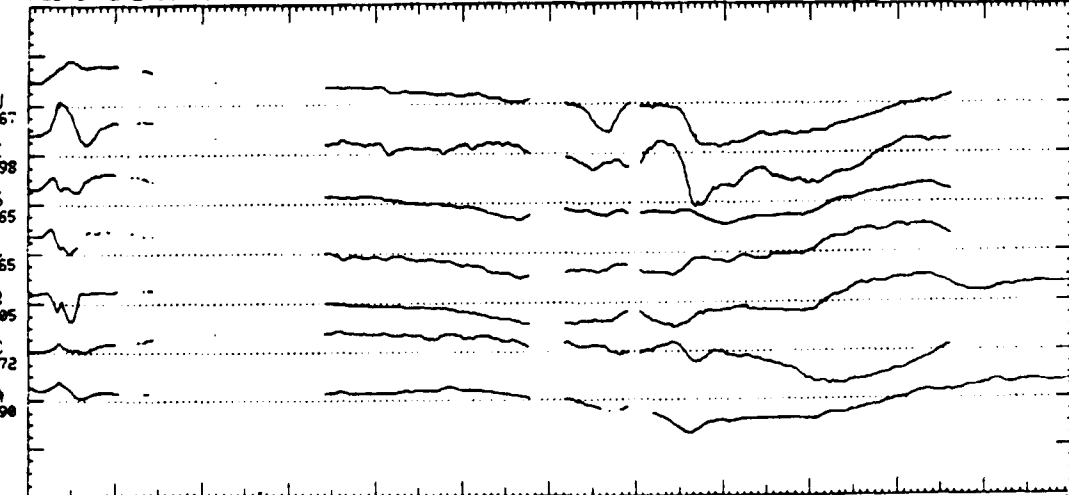
NEW
76
RPC
142
CDS
78
MCL
290
SUB
-30
LOC
75
TPA
-18



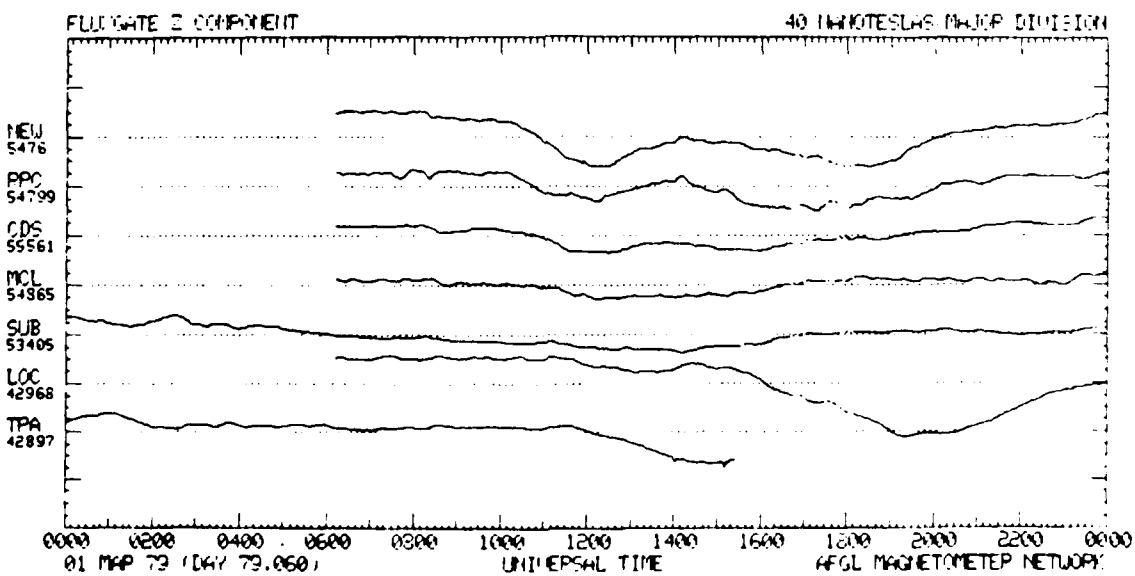
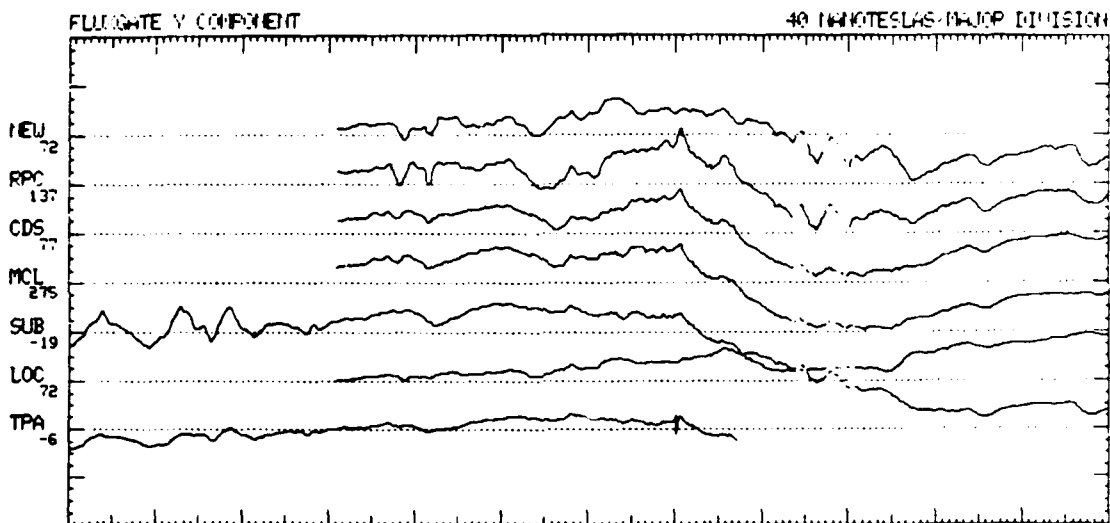
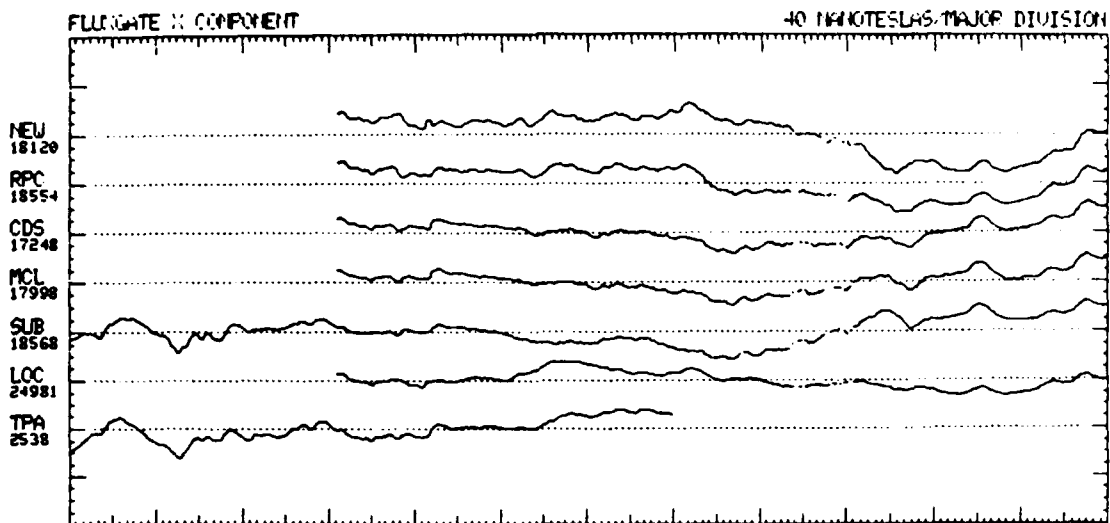
FLIGHT 2 COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54767
RPC
54798
CDS
55565
MCL
54865
SUB
53405
LOC
42972
TPA
42890

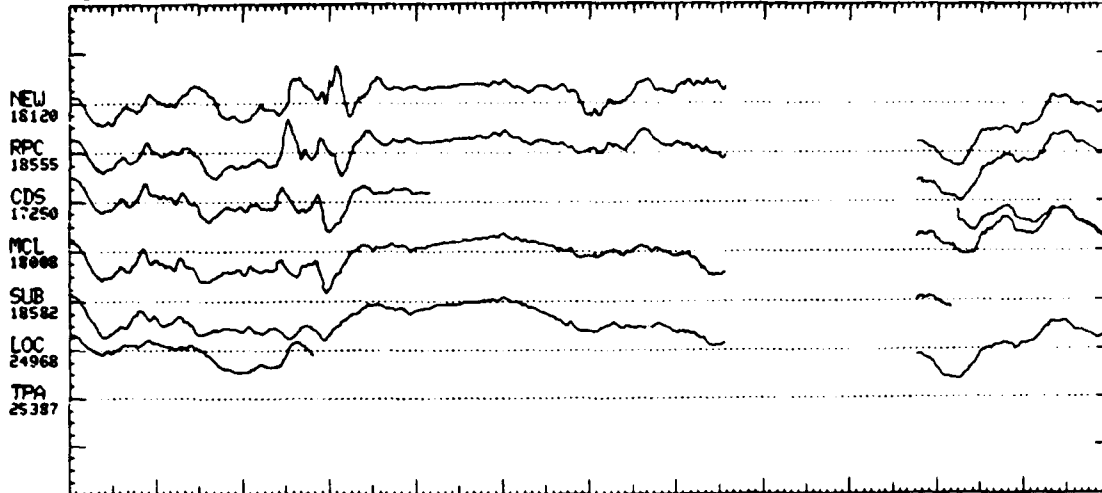


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 FEB 79 (DAY 79.059) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



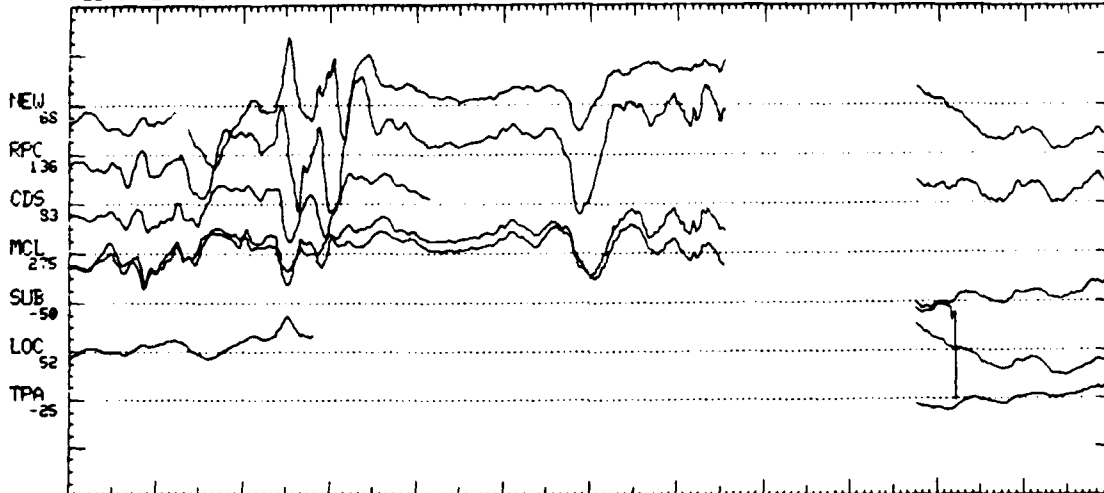
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



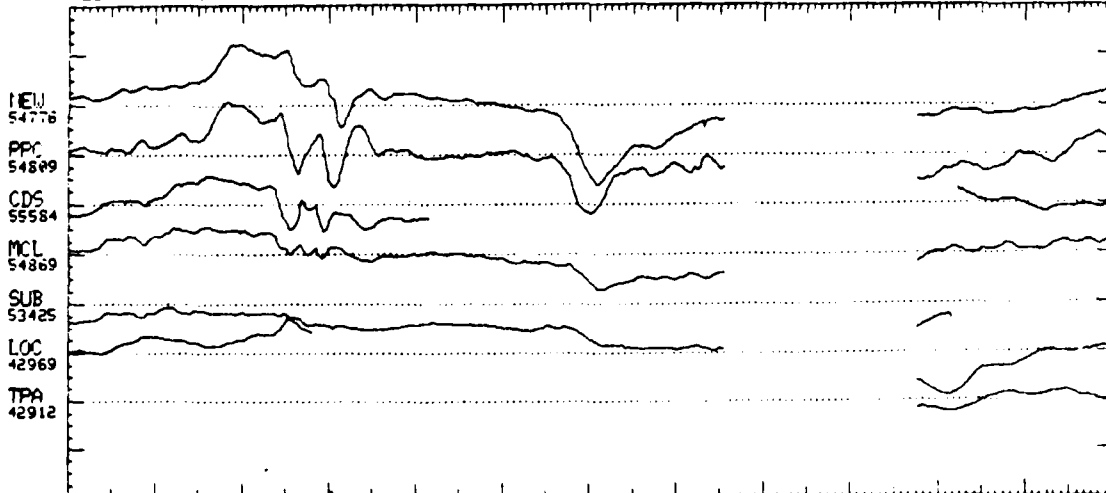
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

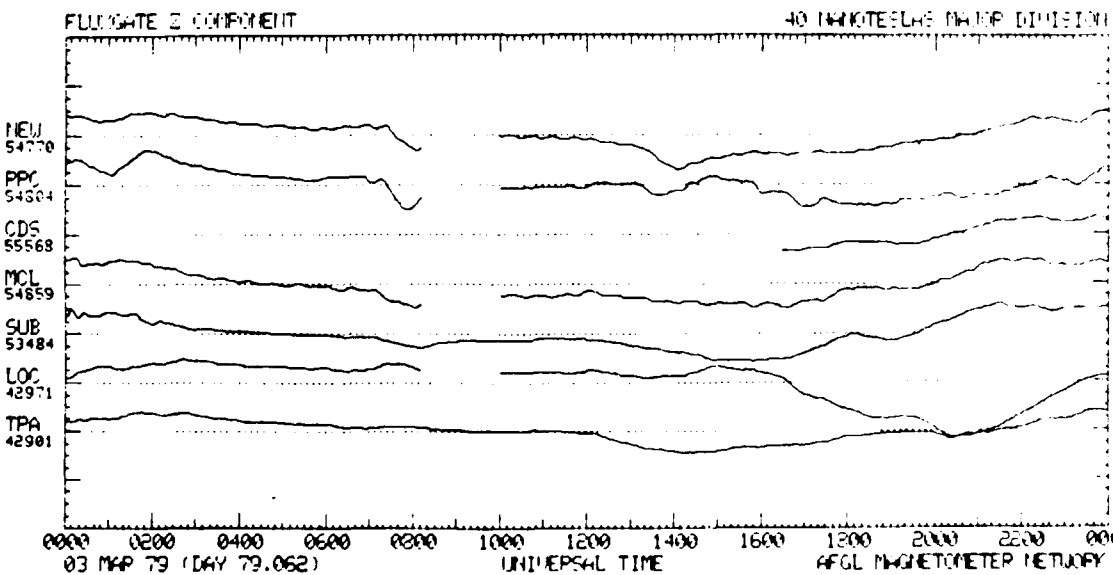
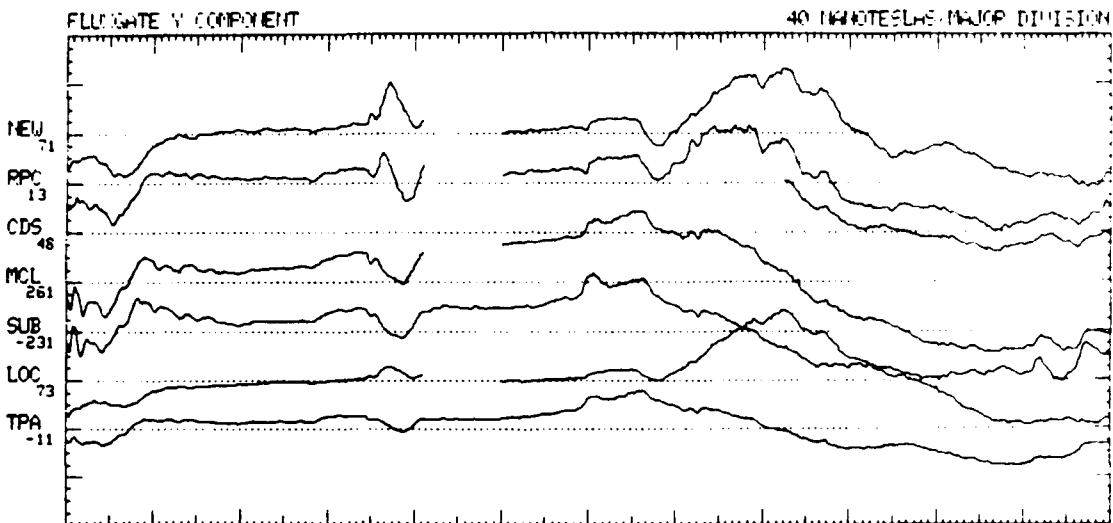
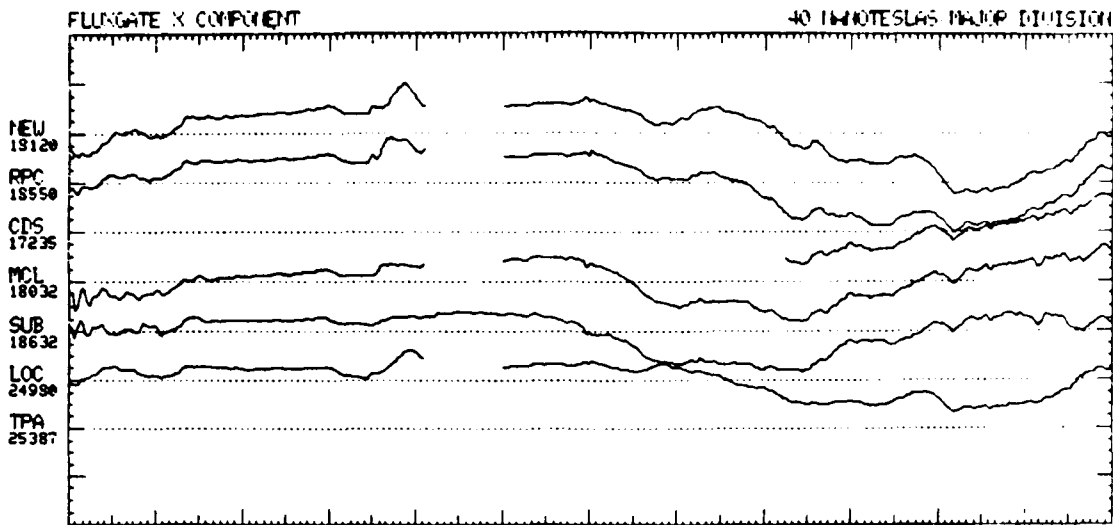


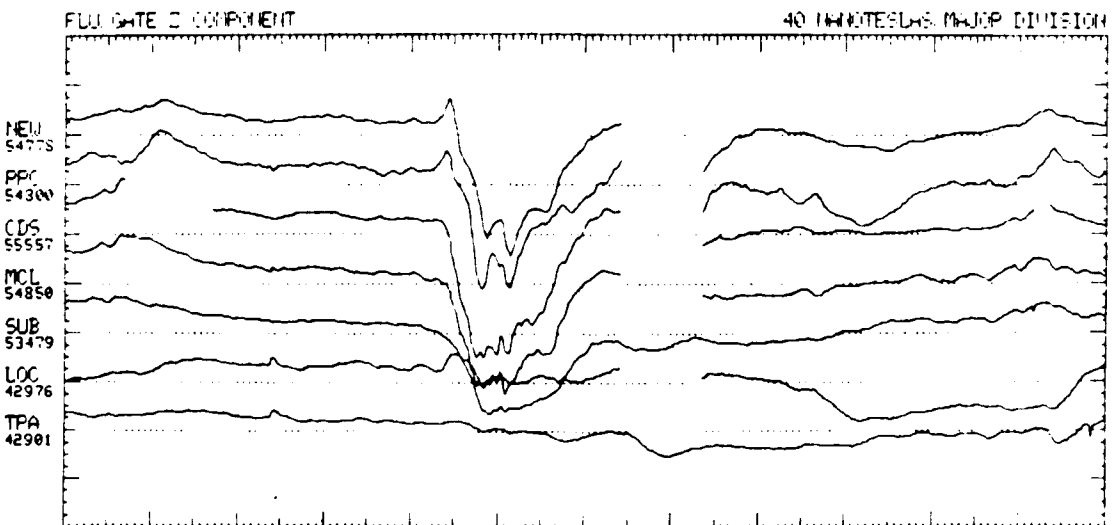
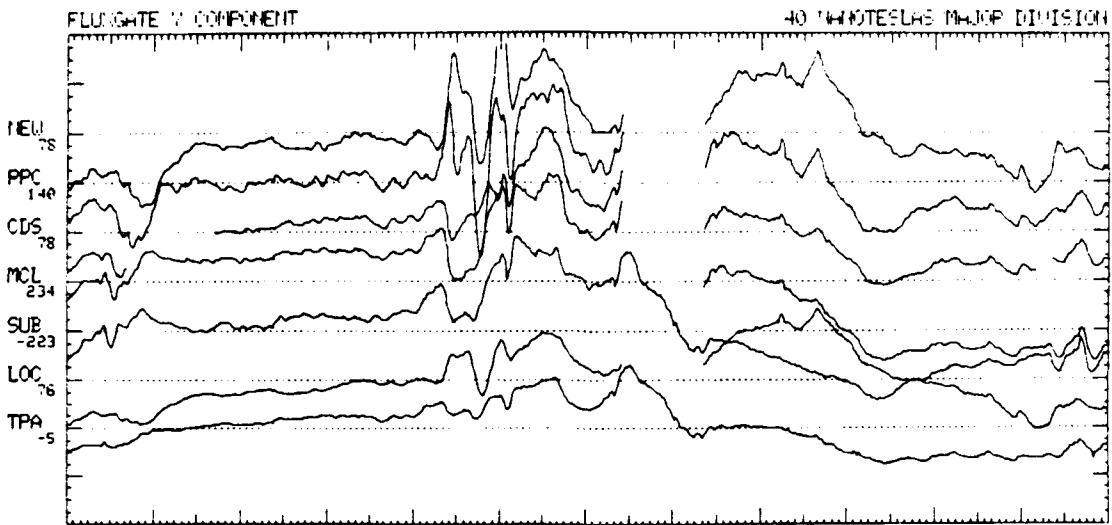
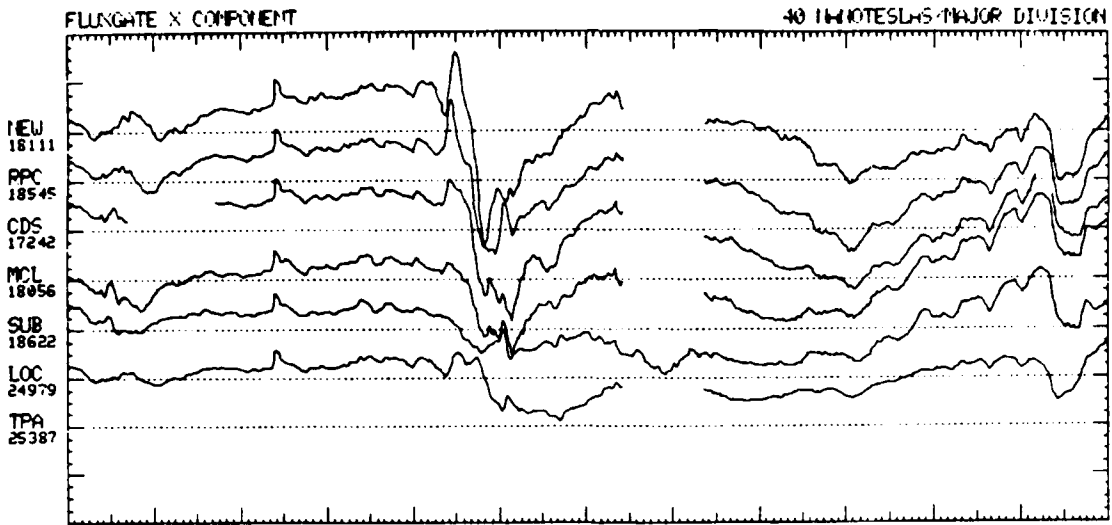
FLIGHTLINE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

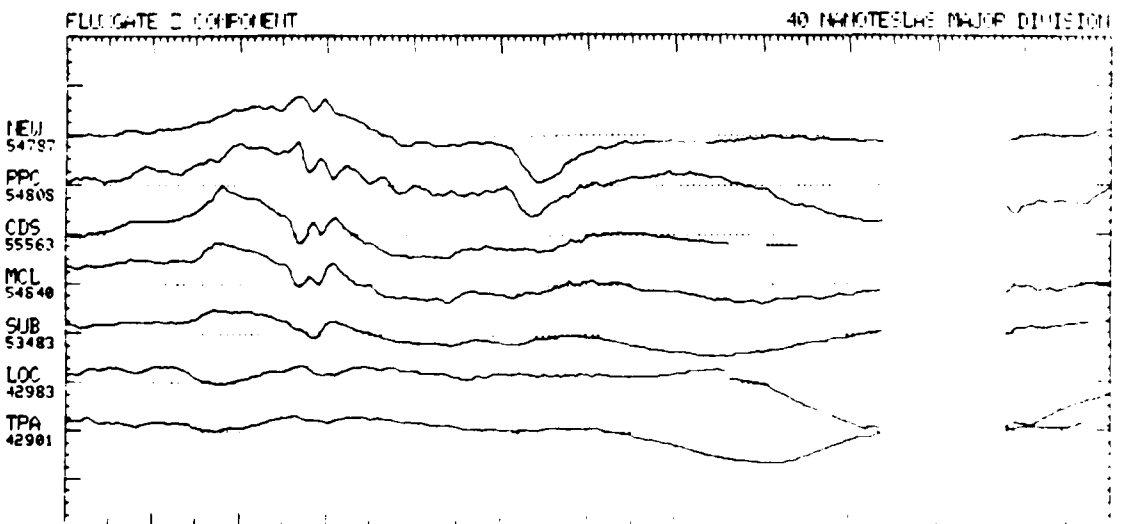
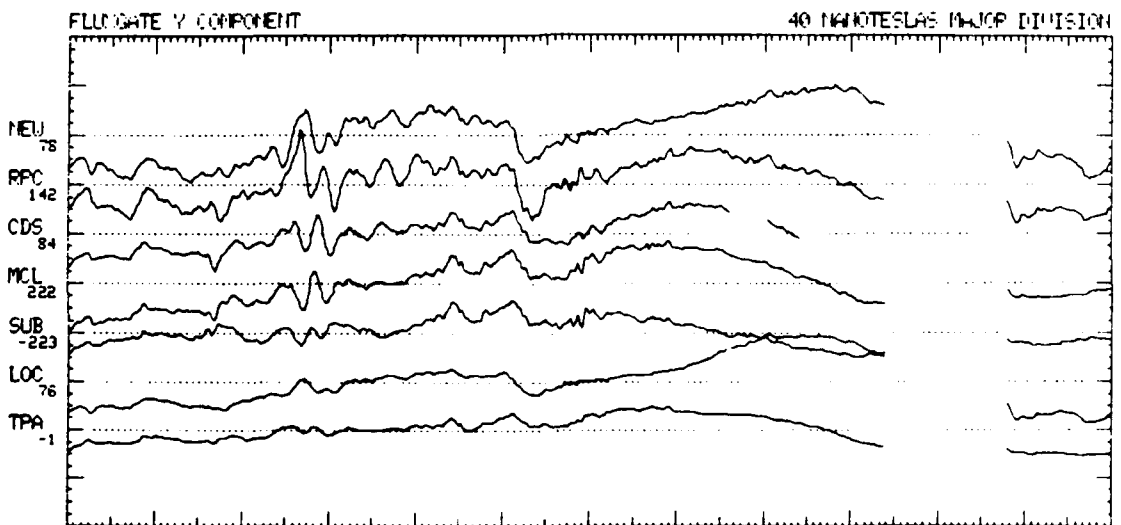
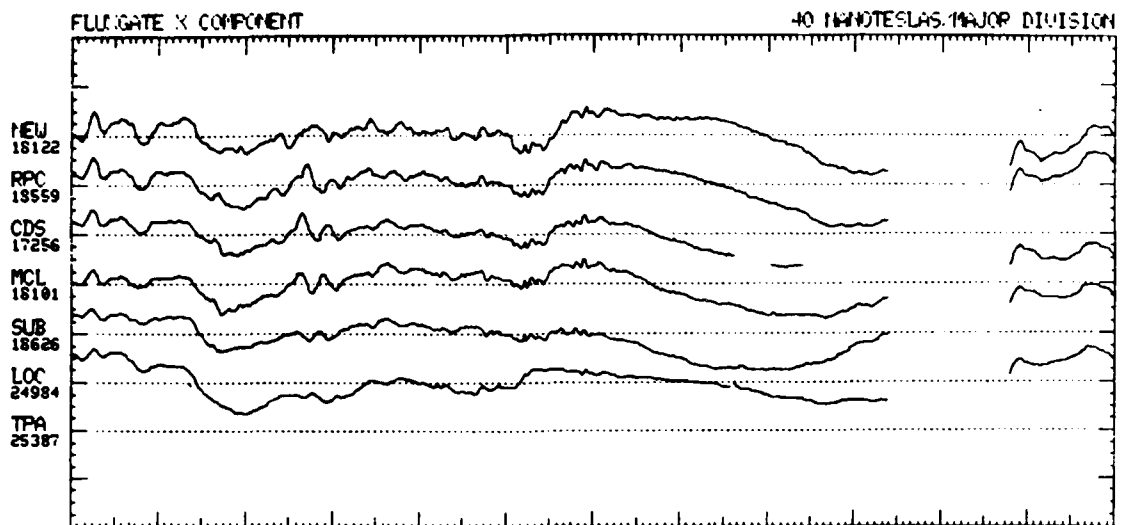


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
02 MAR 79 (DAY 79.061) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

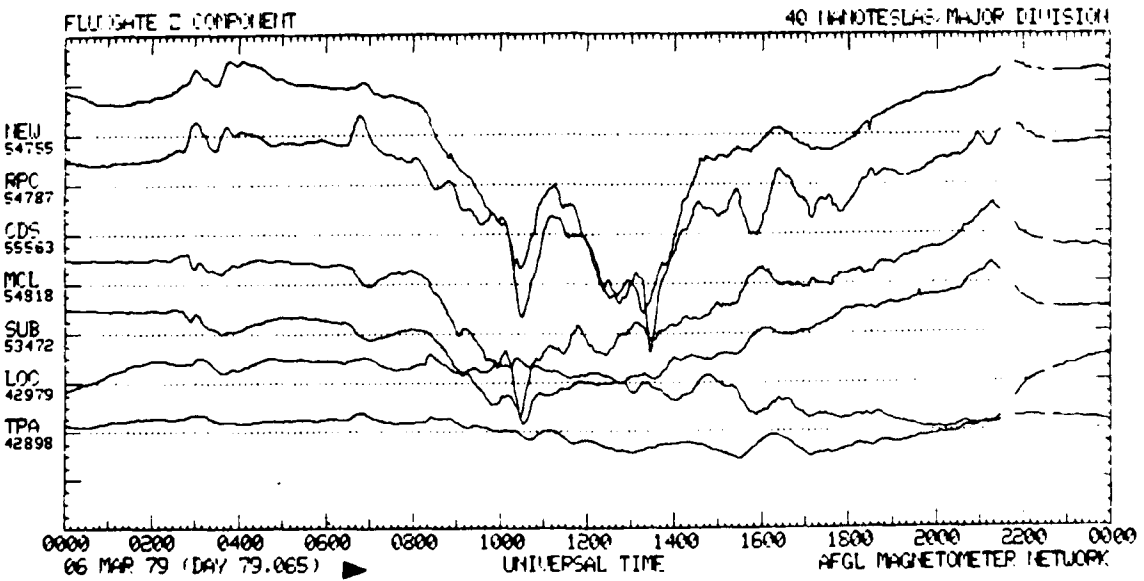
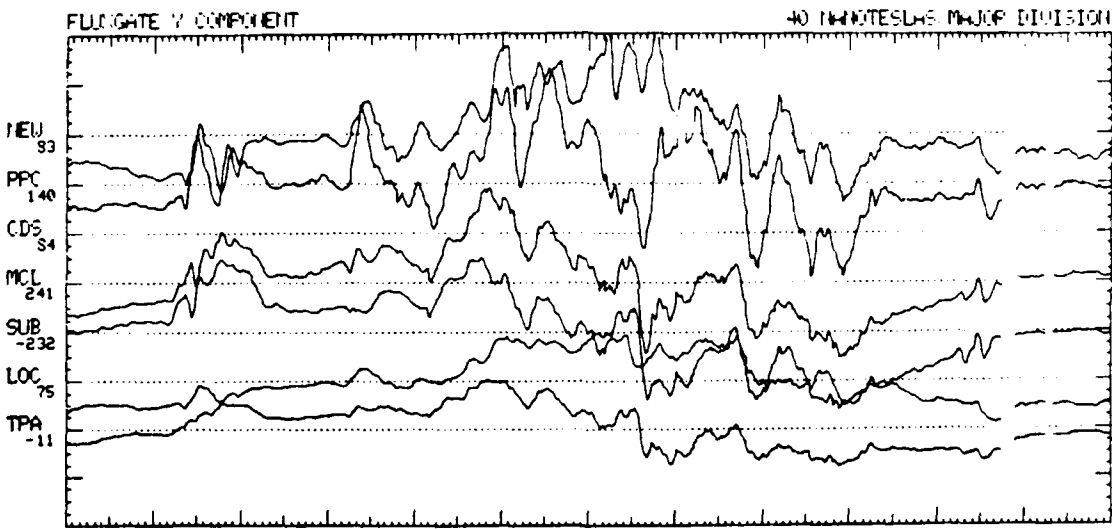
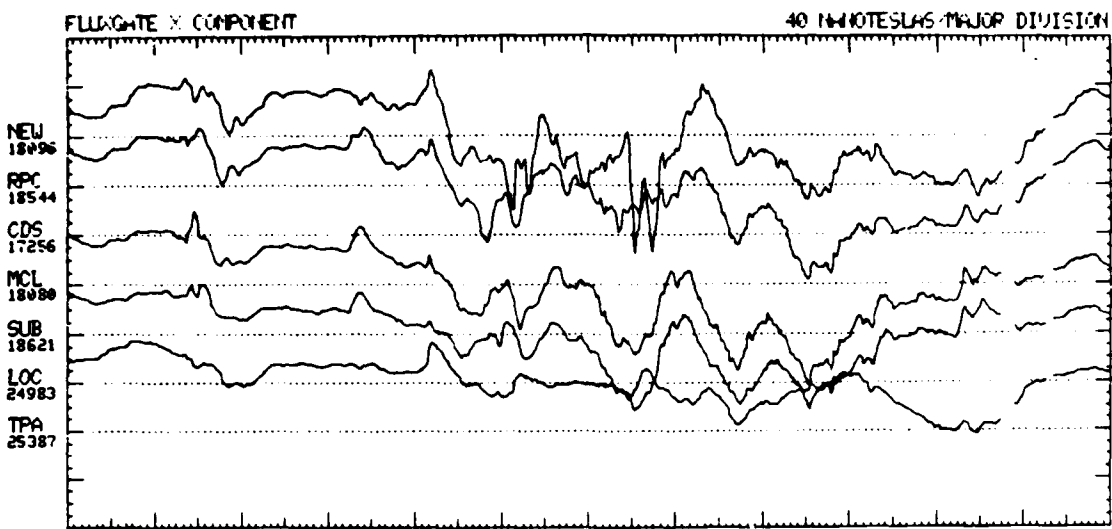


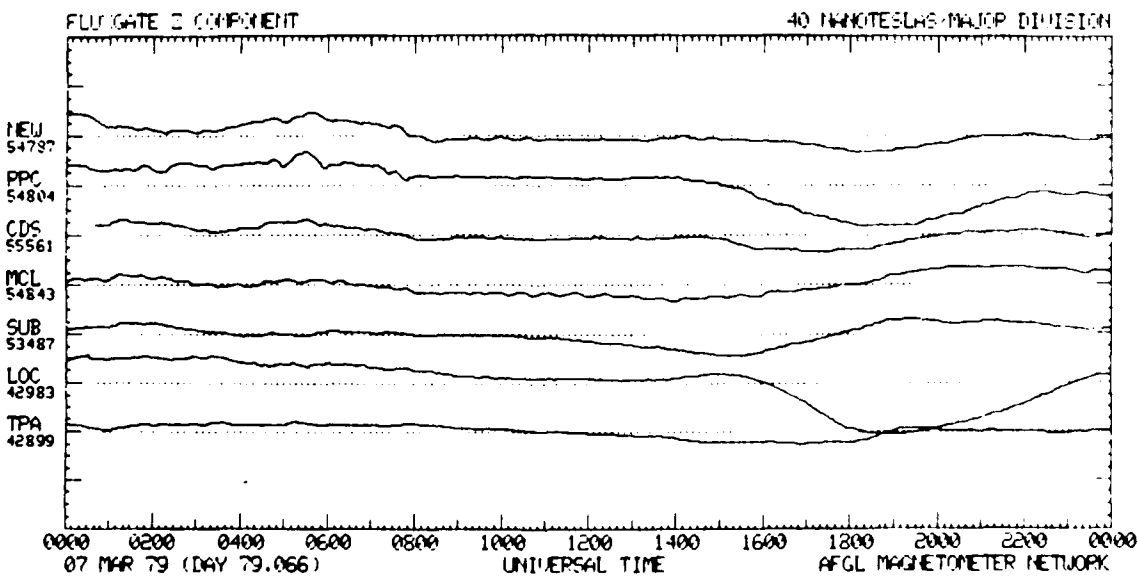
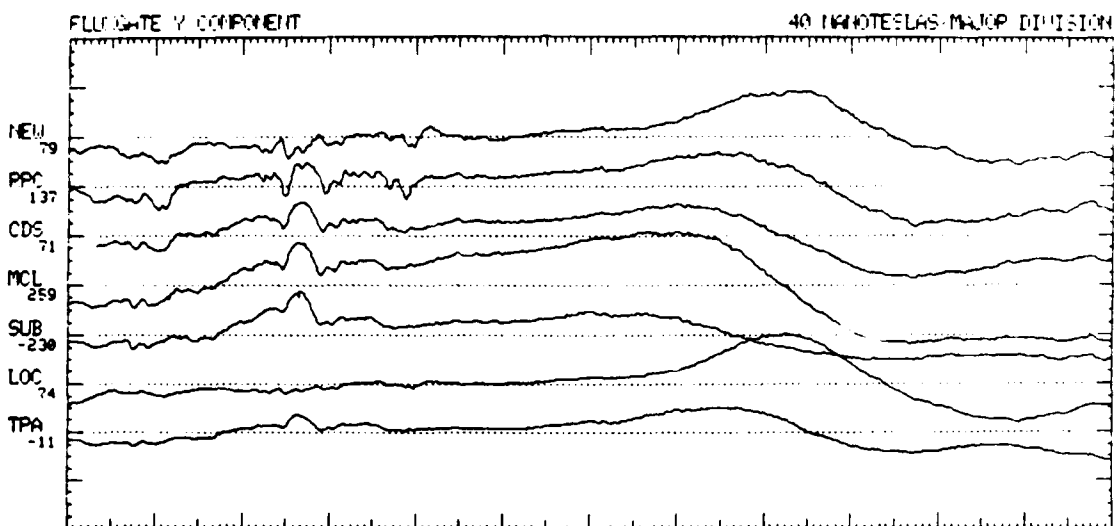
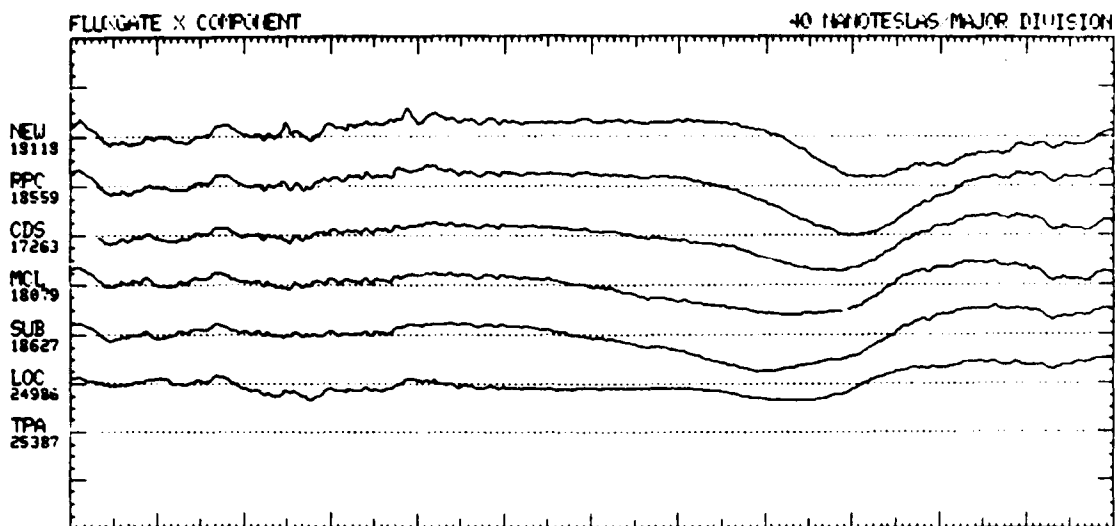


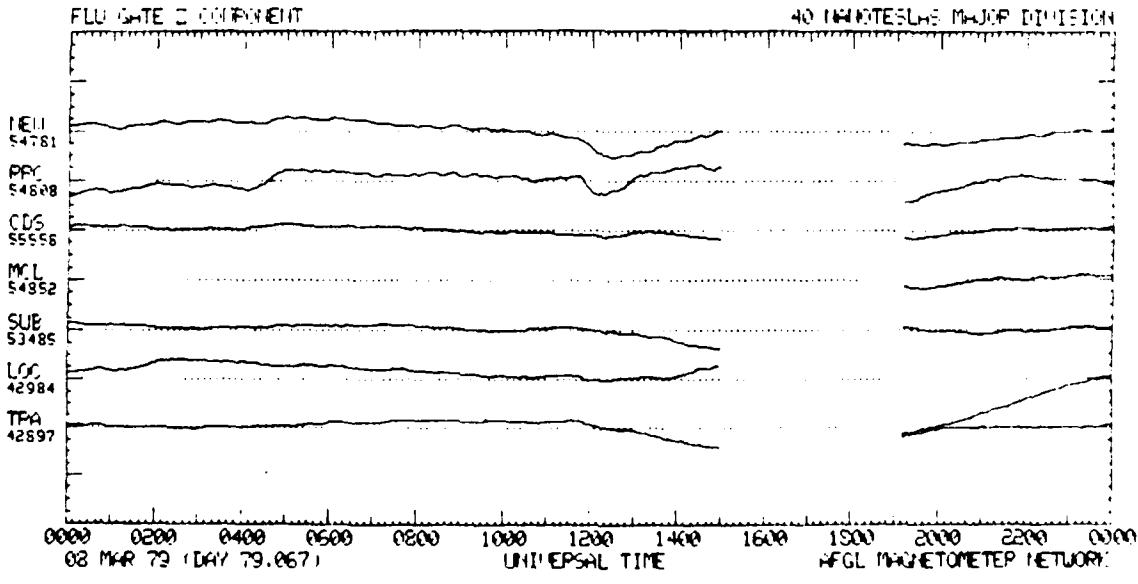
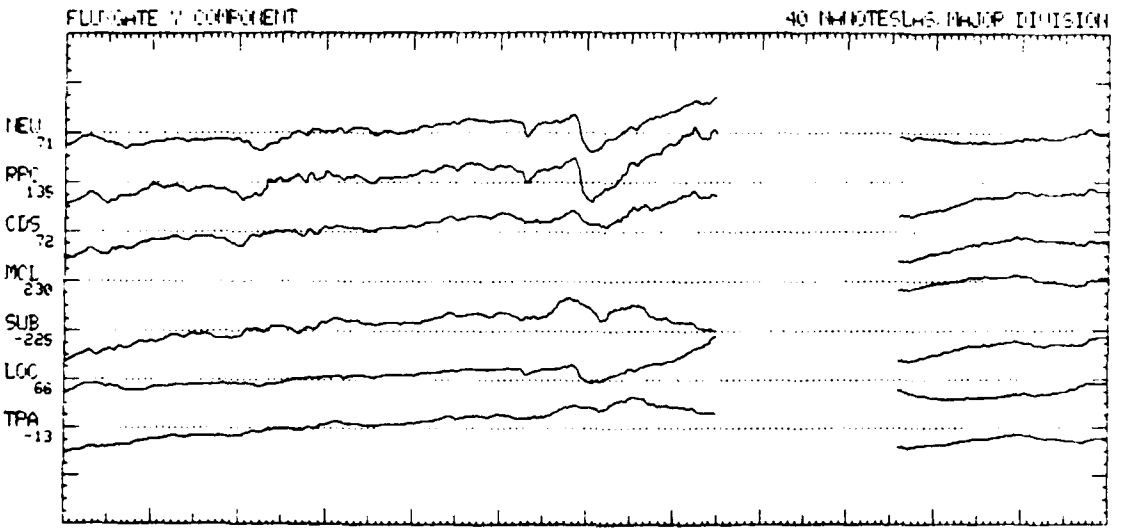
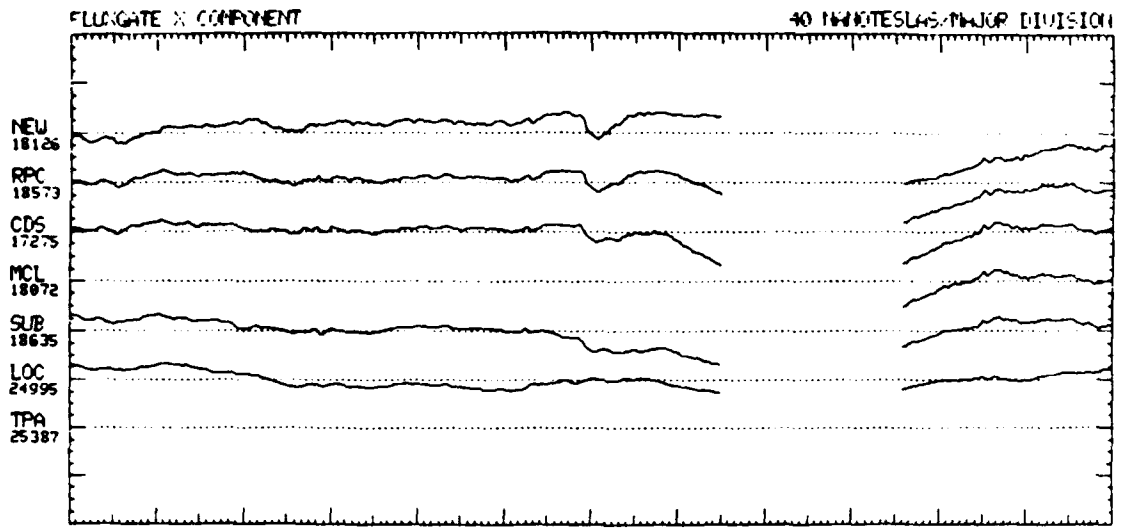
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 04 MAR 79 (DAY 79.063) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

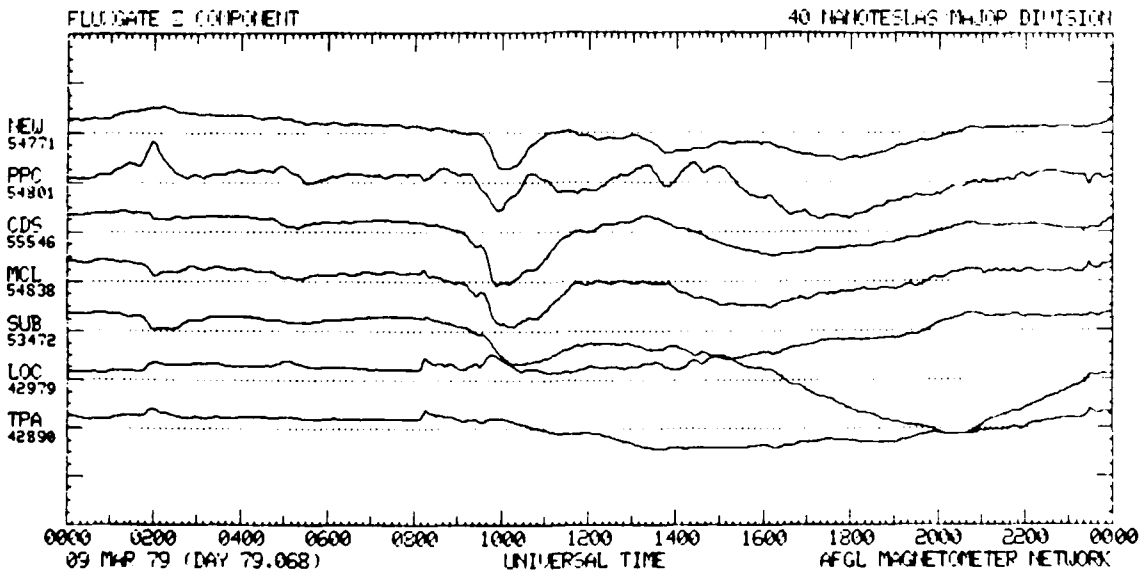
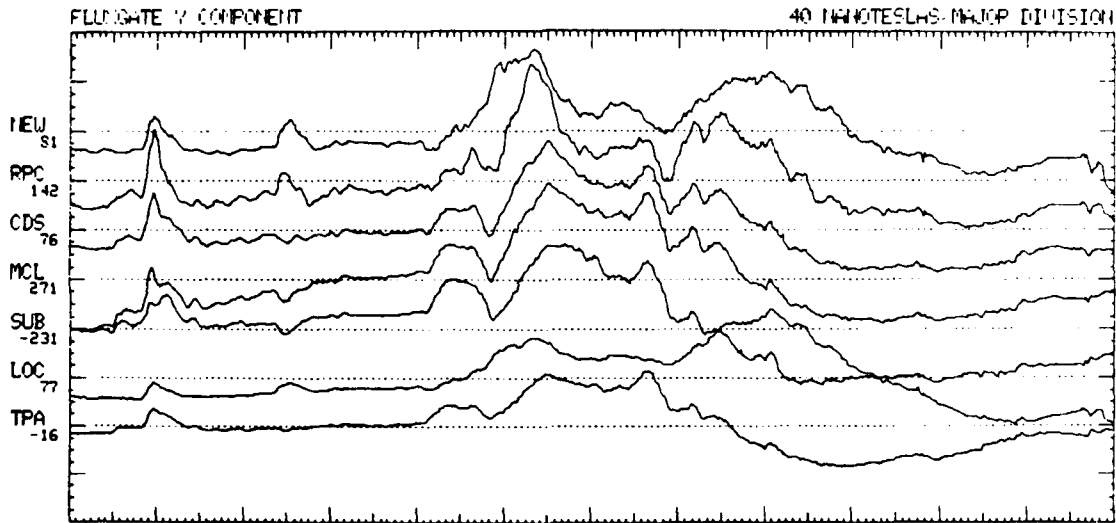
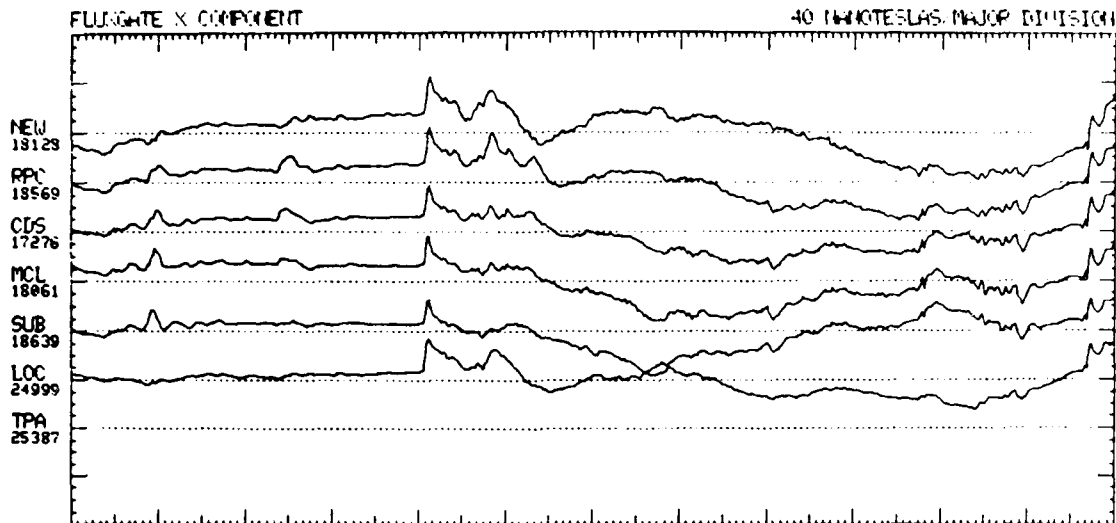


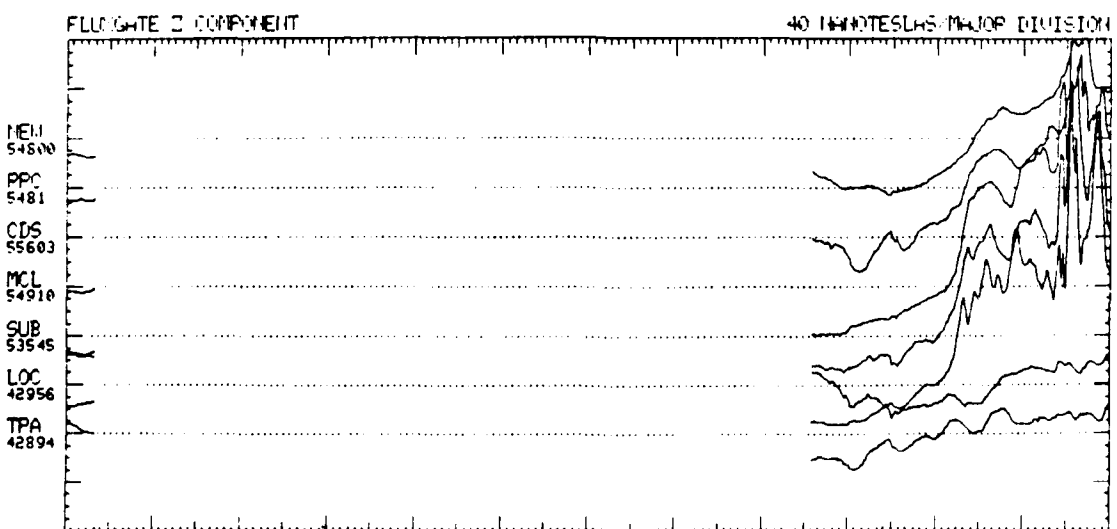
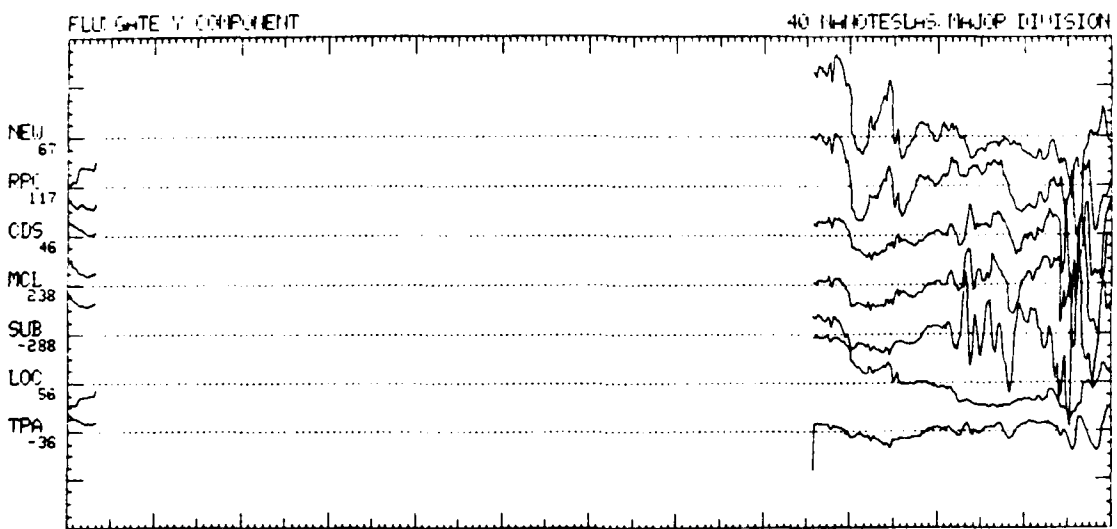
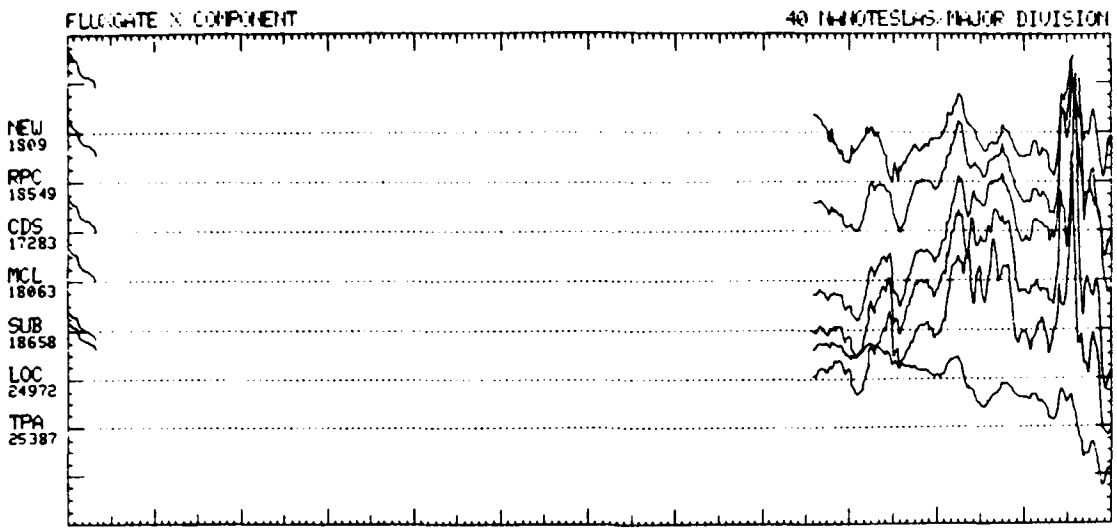
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 05 MAR 79 (DAY 79.064) UNIVERSAL TIME HFSL MAGNETOMETER NETWORK



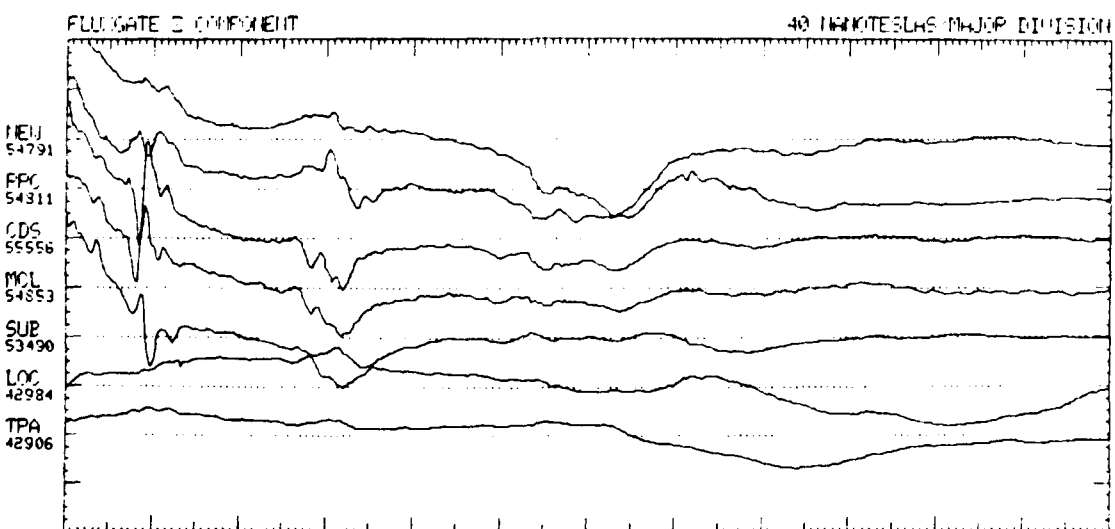
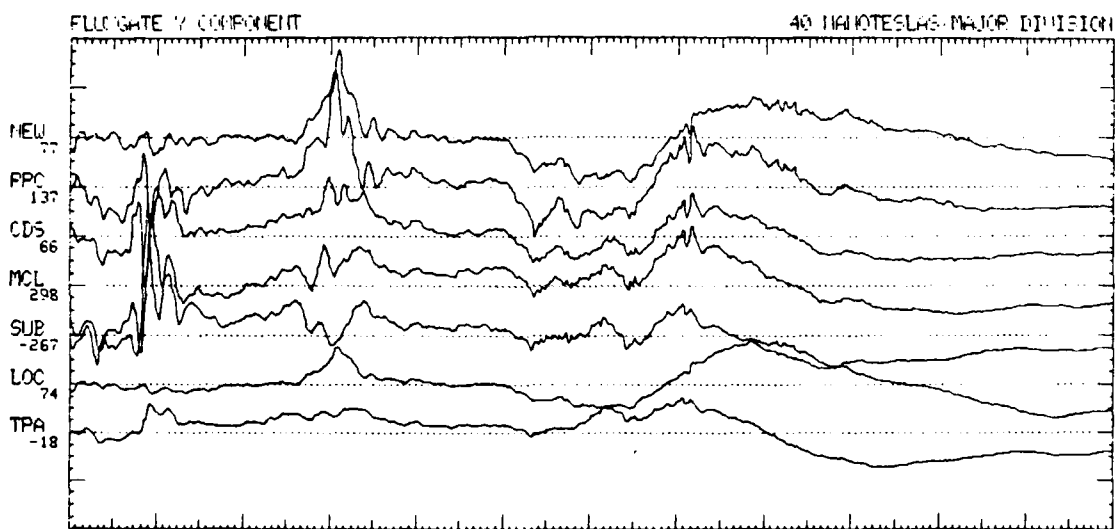
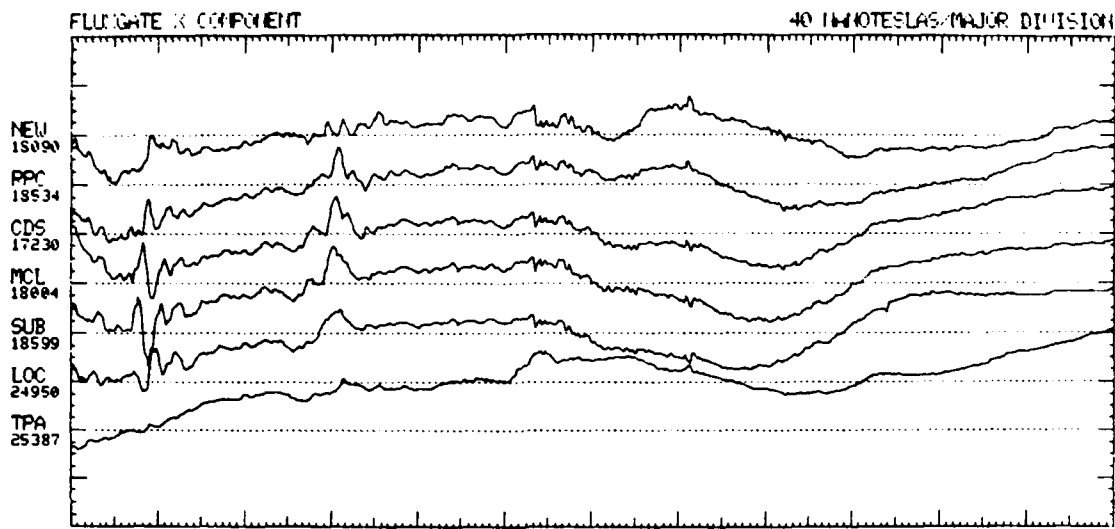








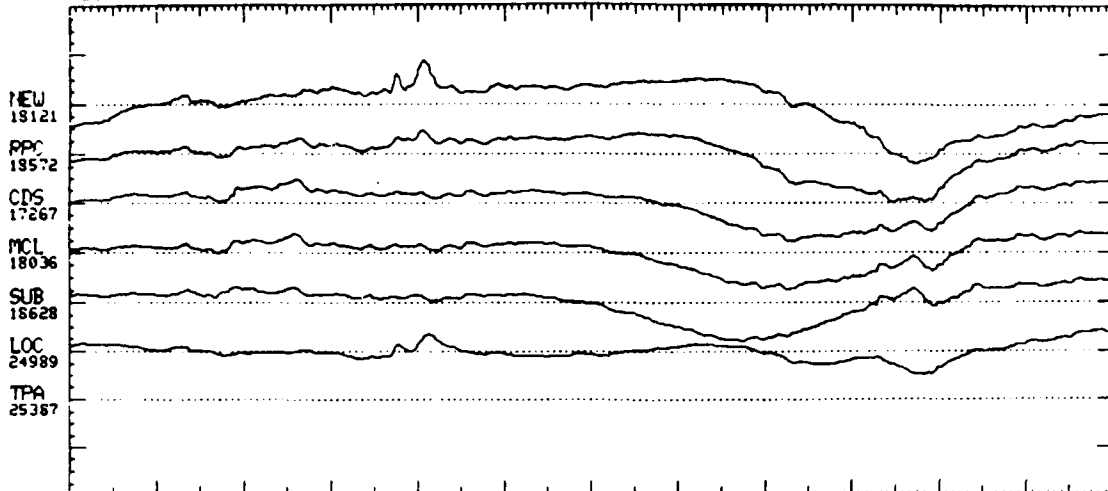
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 10 MAR 79 (DAY 73.069) ▶ UNIVERSAL TIME HFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 11 MAR 79 (DAY 79.070) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

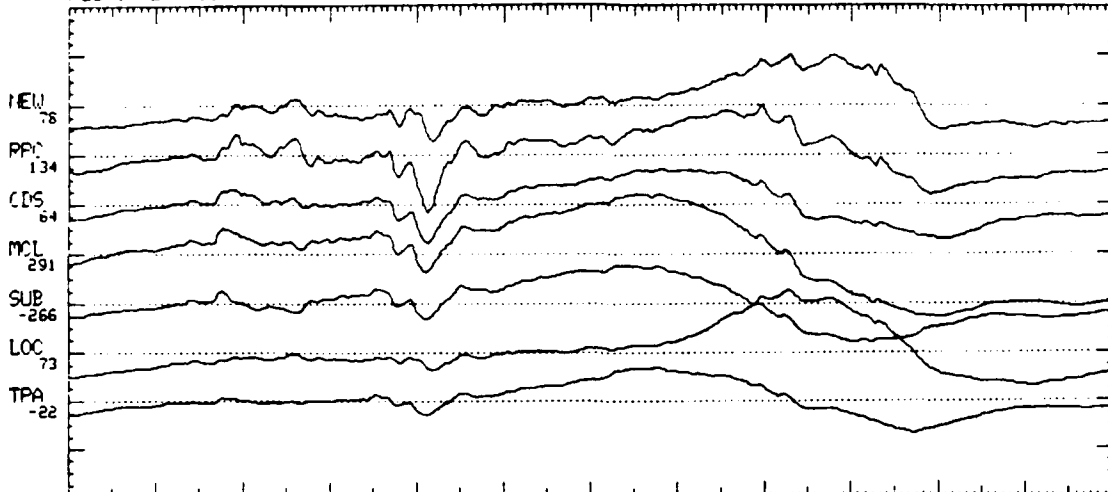
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION



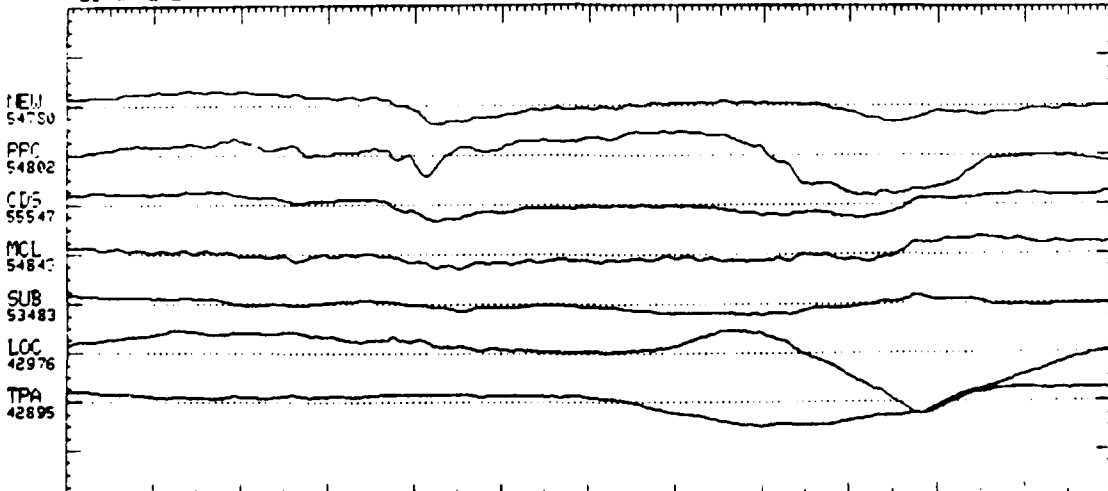
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

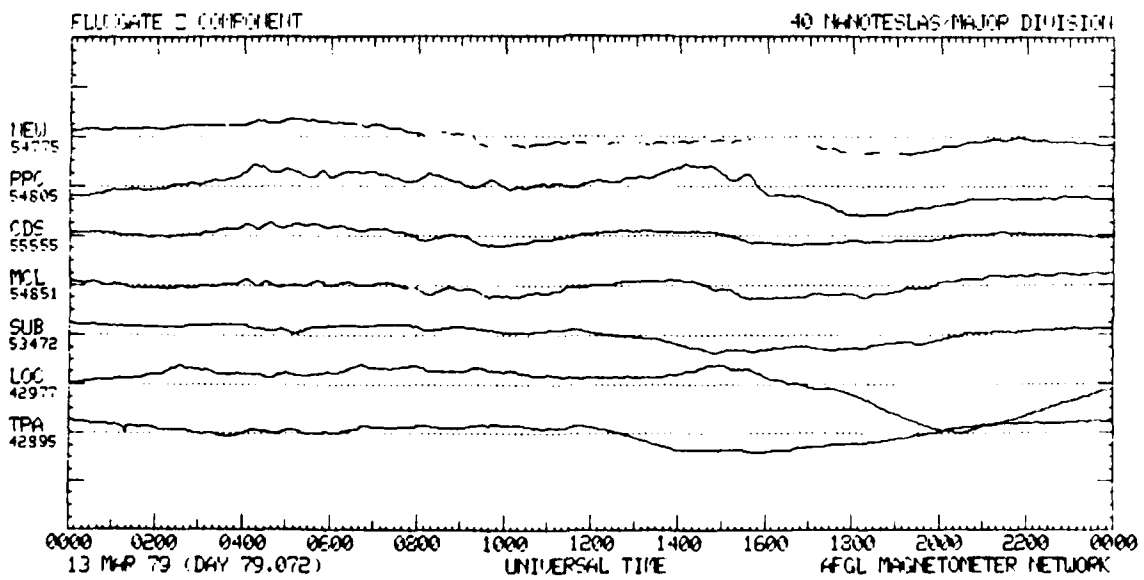
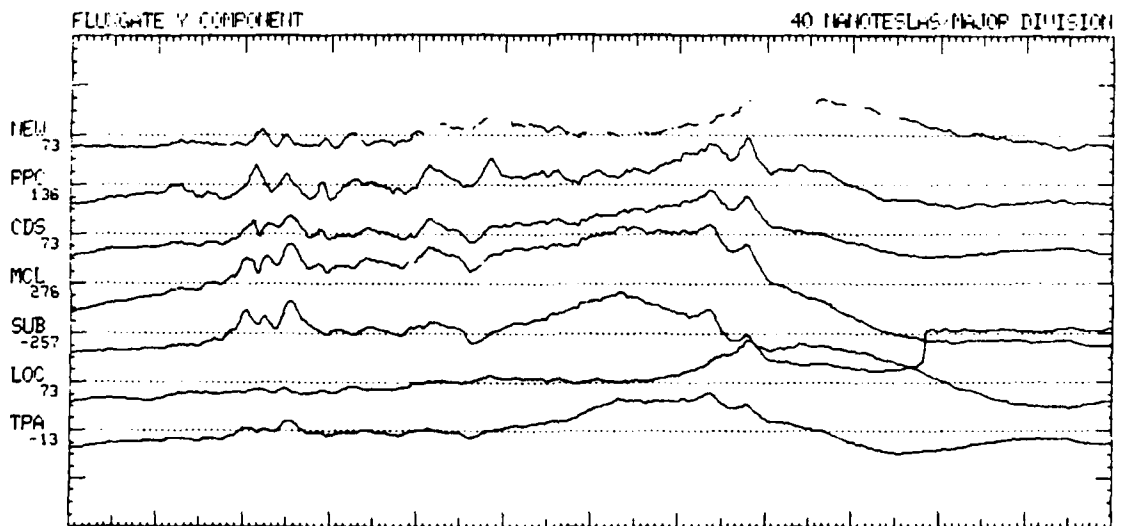
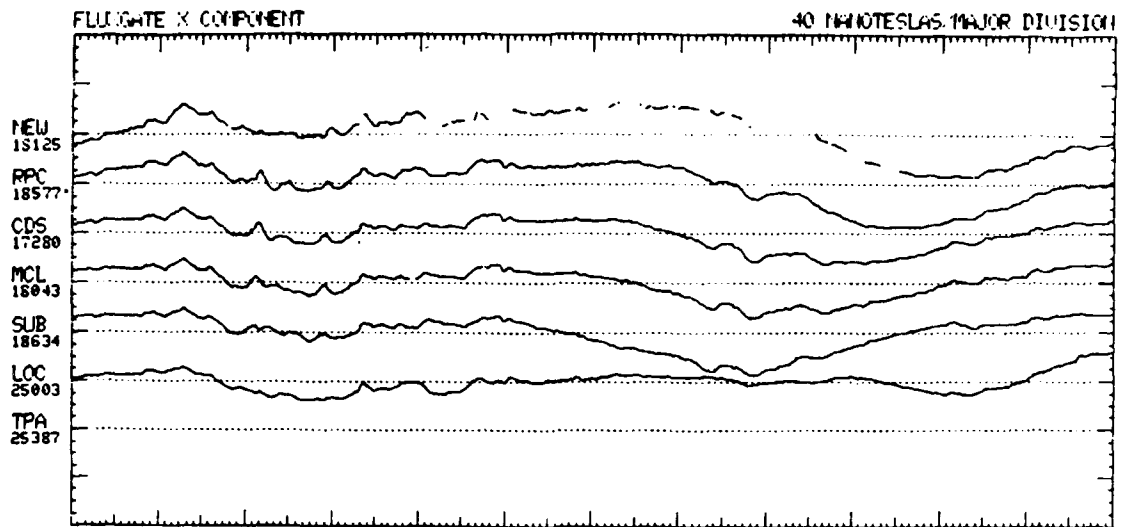


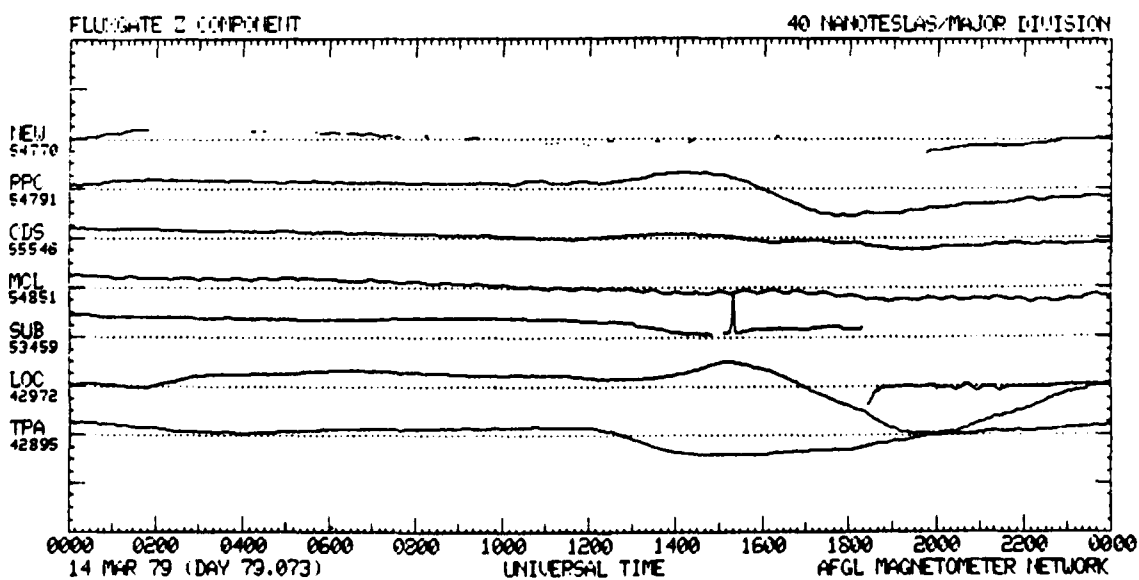
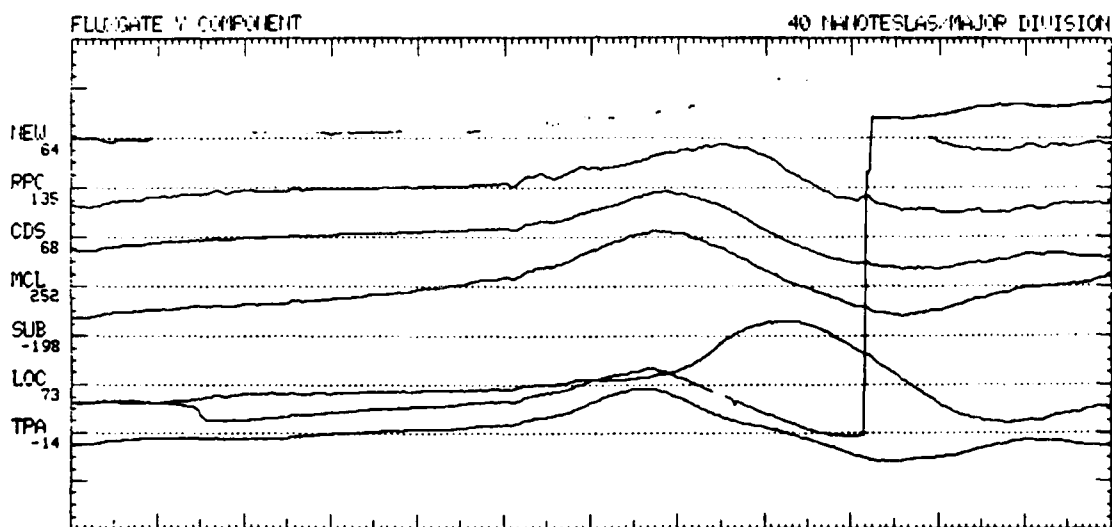
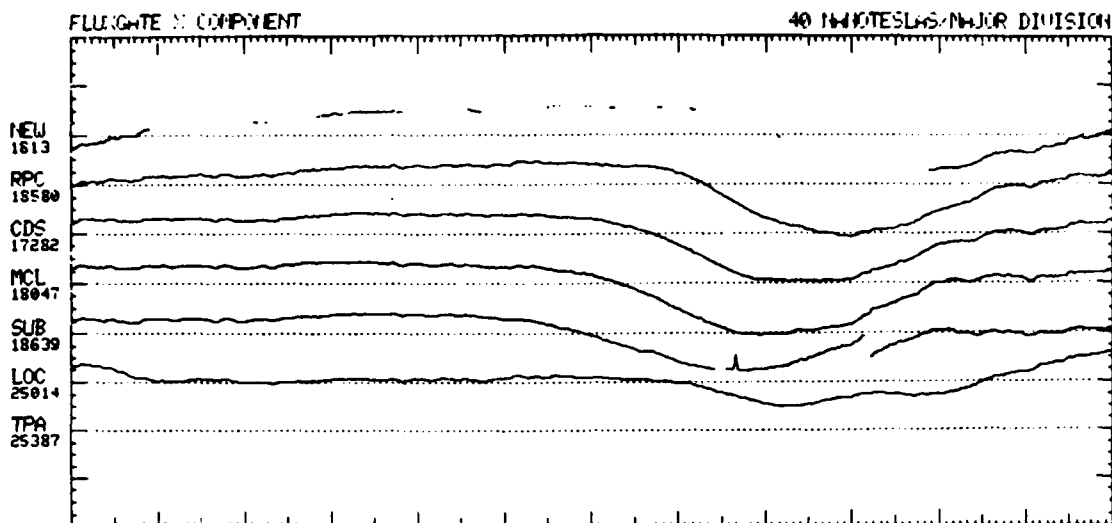
FLIGHTLINE Z COMPONENT

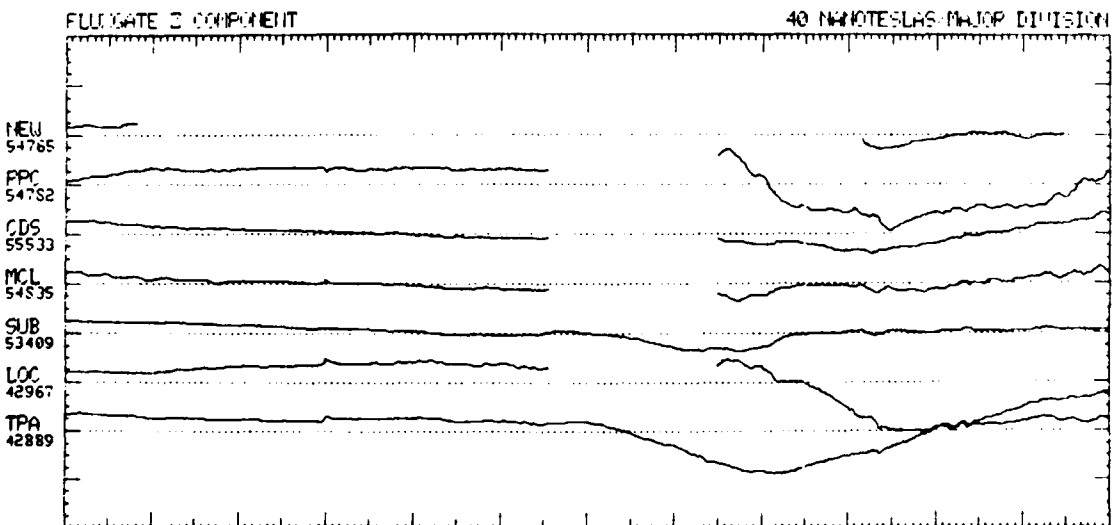
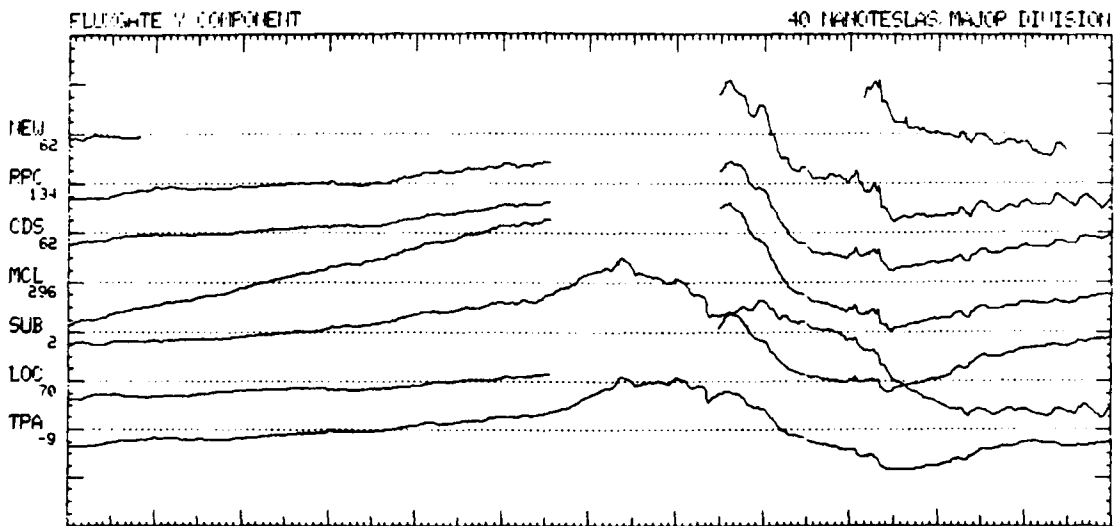
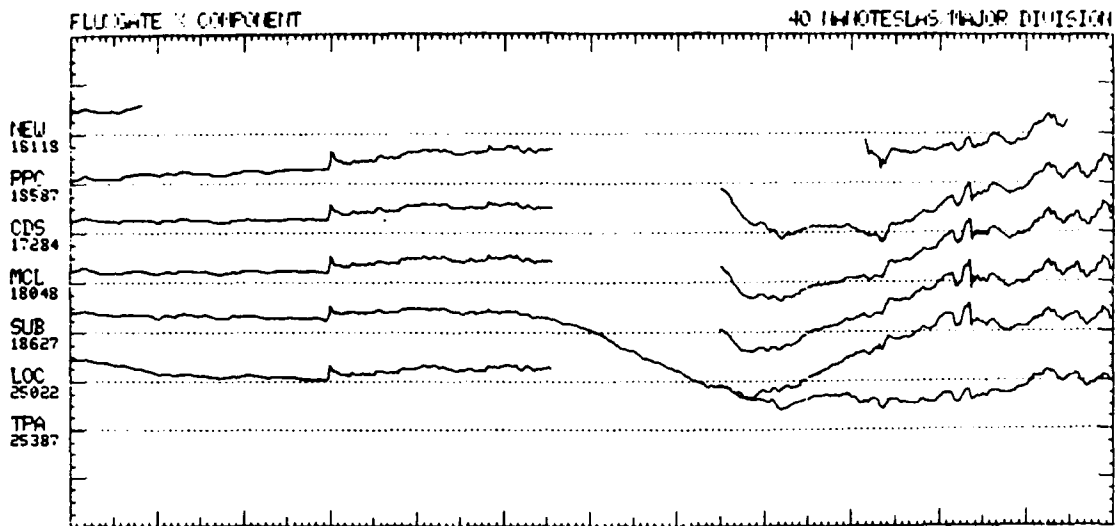
40 NANOTESLAS MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 MAR 79 (DAY 79.071) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





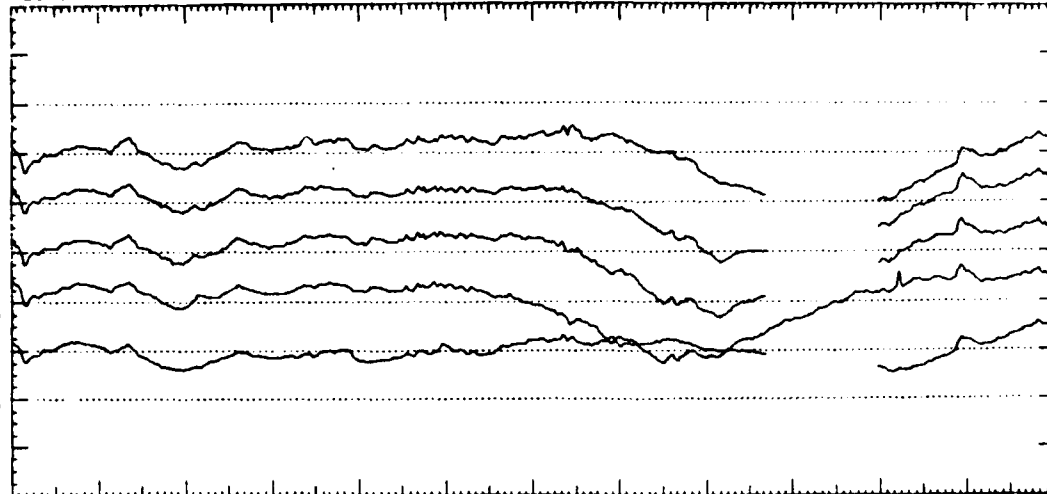


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 15 MAR 79 (DAY 79.074) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHT X COMPONENT

40 NANOTESLA MAJOR DIVISION

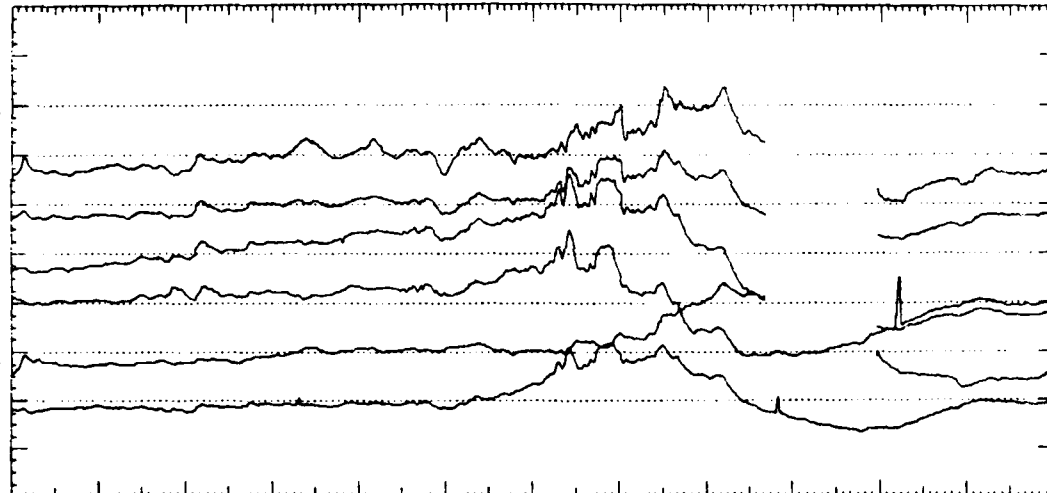
NEU
18118
PPC
15593
CDS
17284
MCL
18944
SUB
18616
LOC
25011
TPA
25387



FLIGHT Y COMPONENT

40 NANOTESLA MAJOR DIVISION

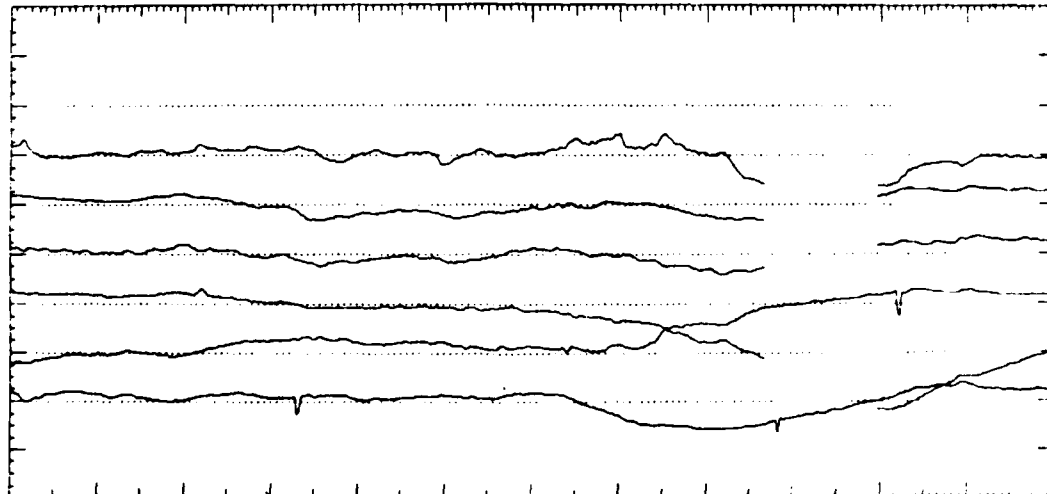
NEU
62
PPC
141
CDS
73
MCL
301
SUB
-6
LOC
69
TPA
-11



FLIGHT Z COMPONENT

40 NANOTESLA MAJOR DIVISION

NEU
54765
PPC
54787
CDS
55541
MCL
54837
SUB
53406
LOC
42967
TPA
42889

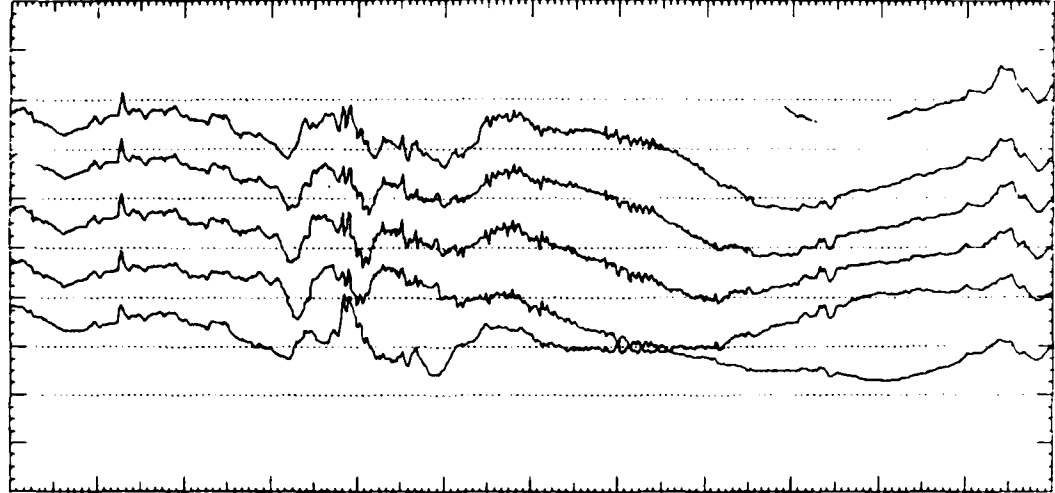


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 MAR 79 (DAY 79.075) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

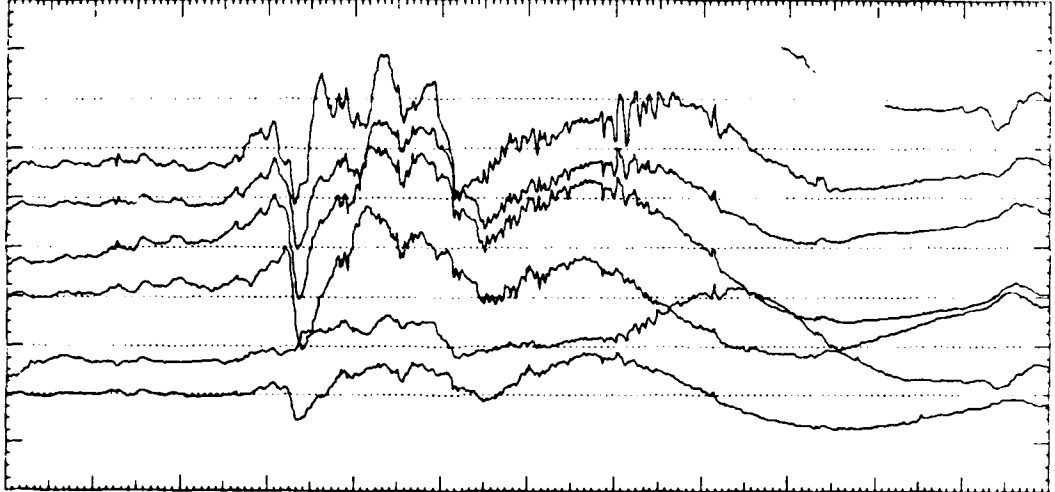
NEW
15094
RPC
15579
CDS
17274
MCL
18035
SUB
18611
LOC
24999
TPA
25387



FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

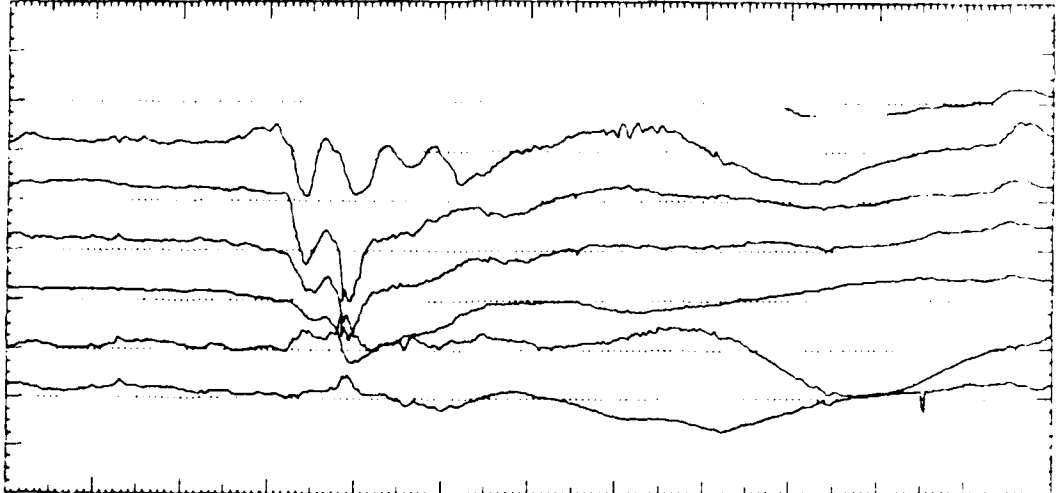
NEW
6
RPC
149
CDS
78
MCL
272
SUB
-3
LOC
76
TPA
-10



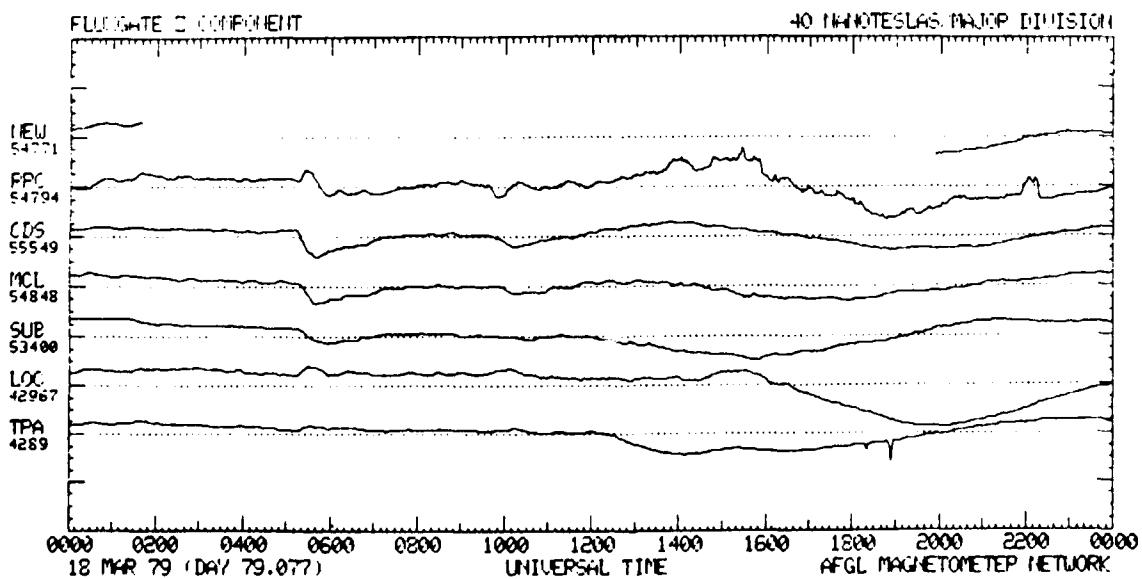
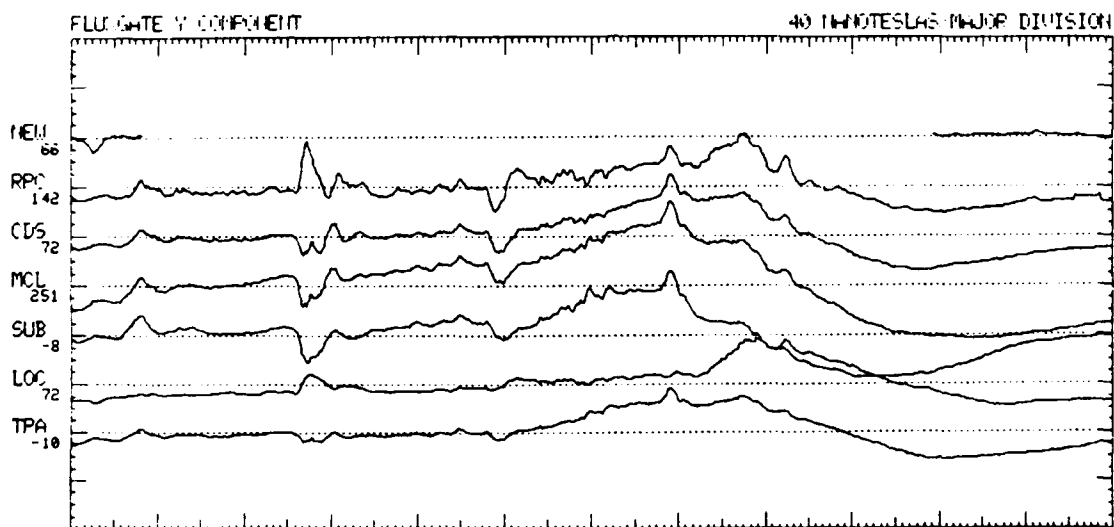
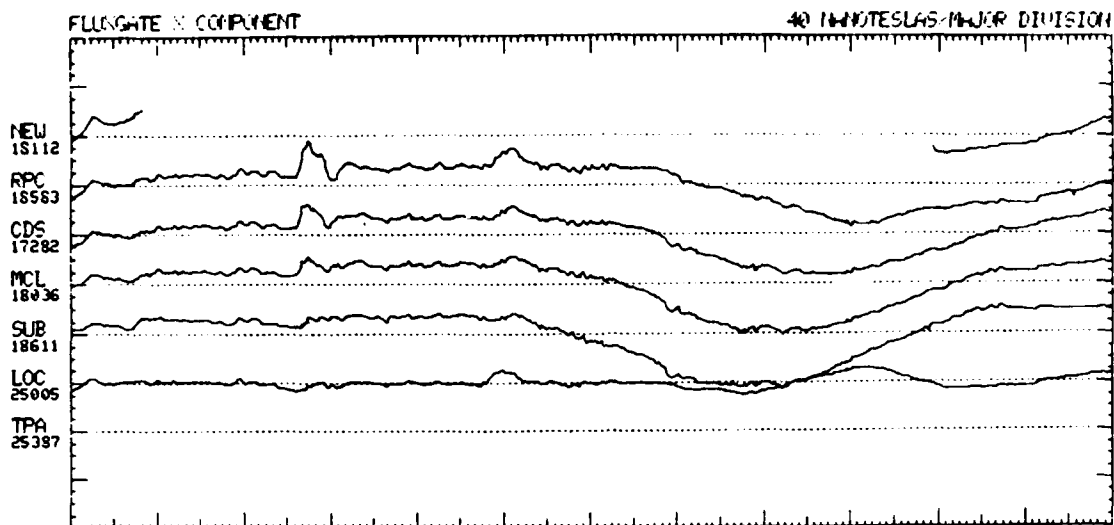
FLIGHTLINE Z COMPONENT

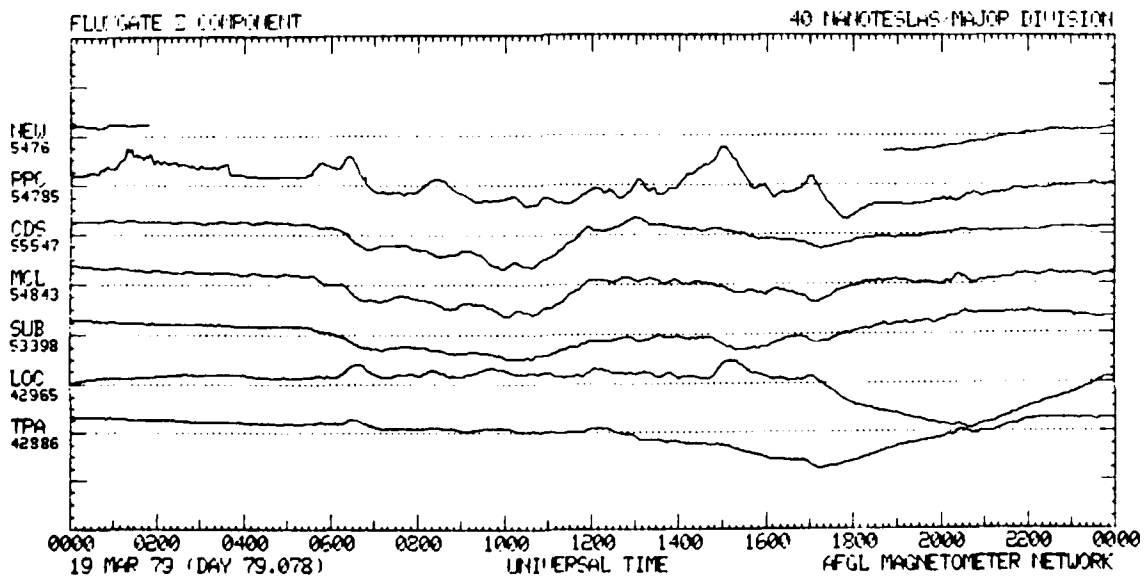
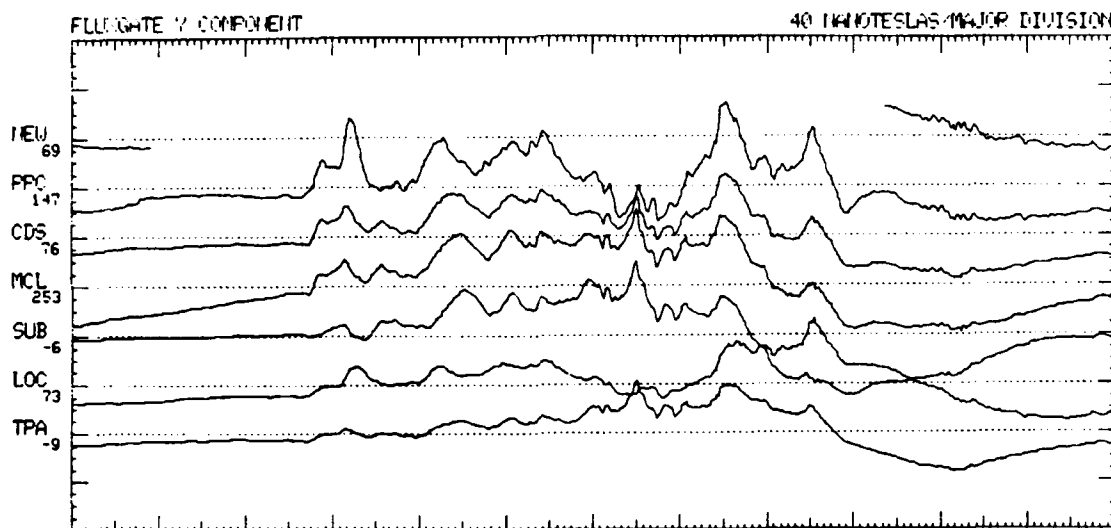
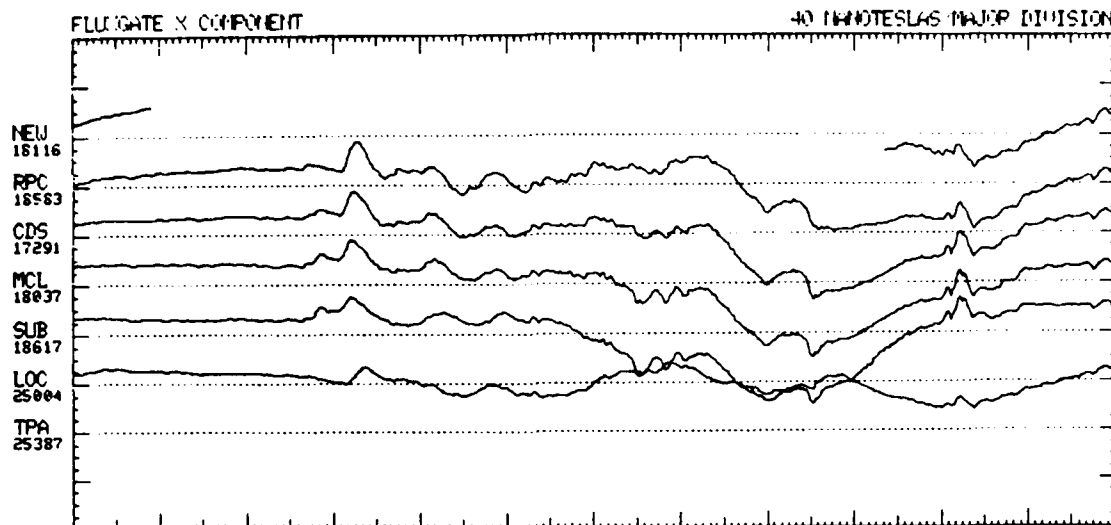
40 NANOTESLAS MAJOR DIVISION

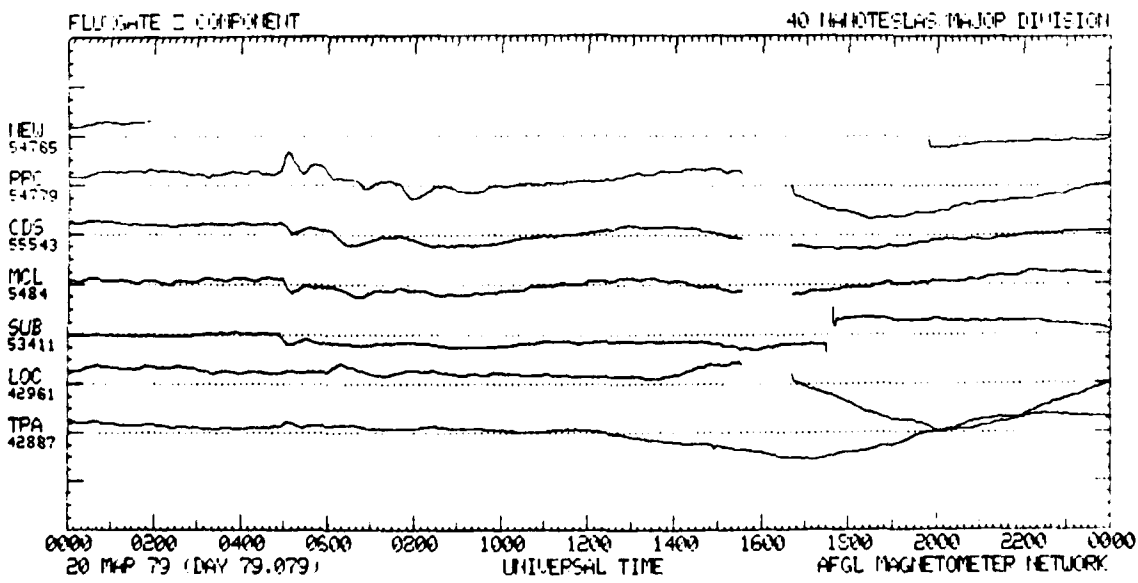
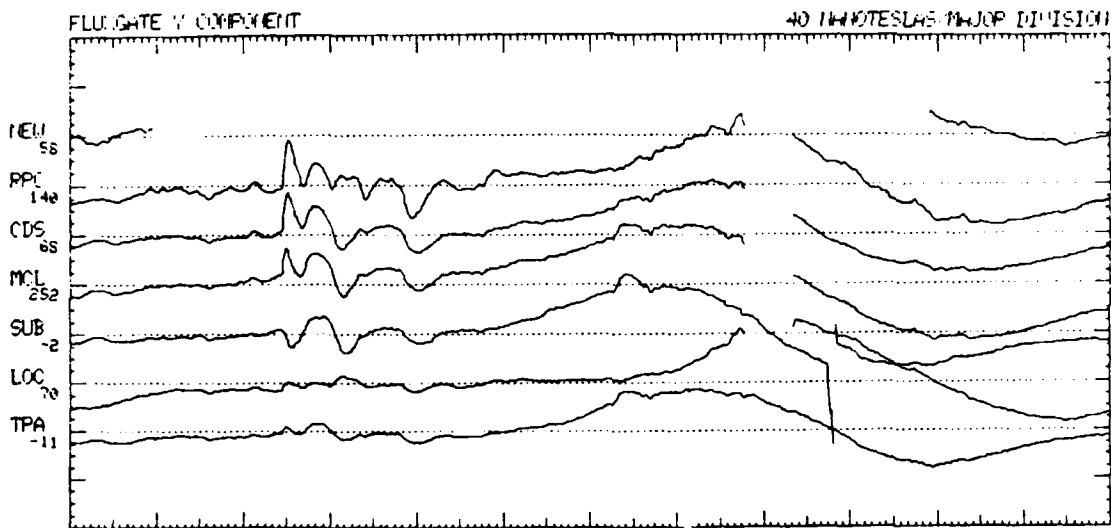
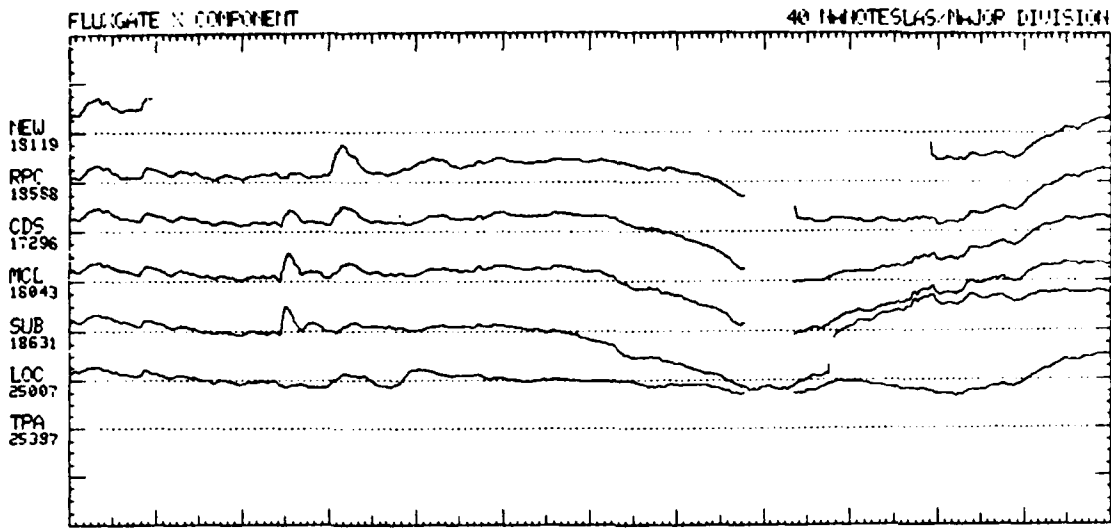
NEW
54771
RPC
54779
CDS
55543
MCL
54838
SUB
53397
LOC
42966
TPA
42987

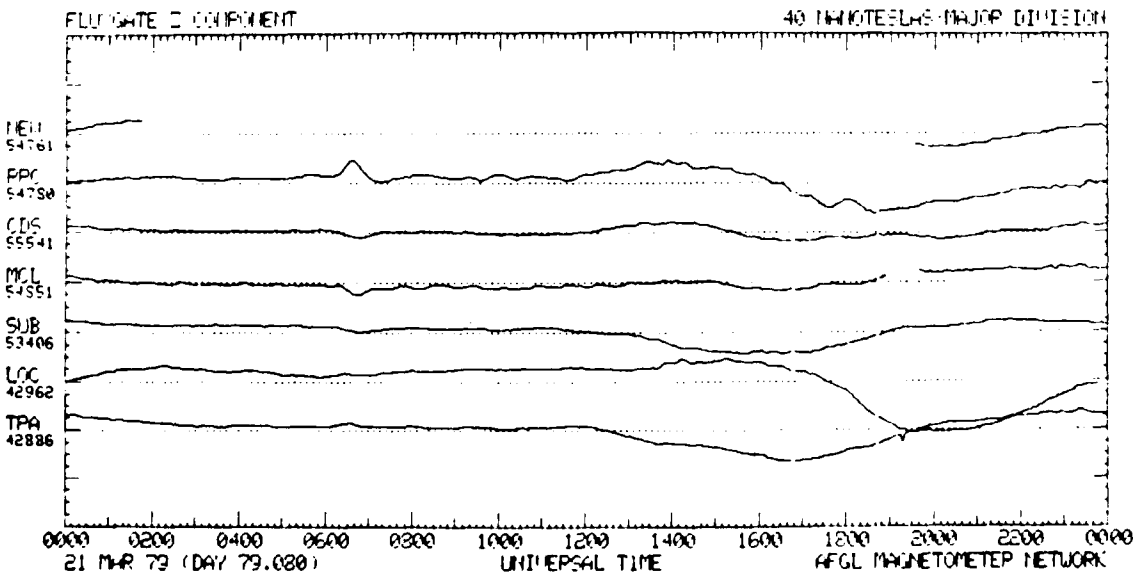
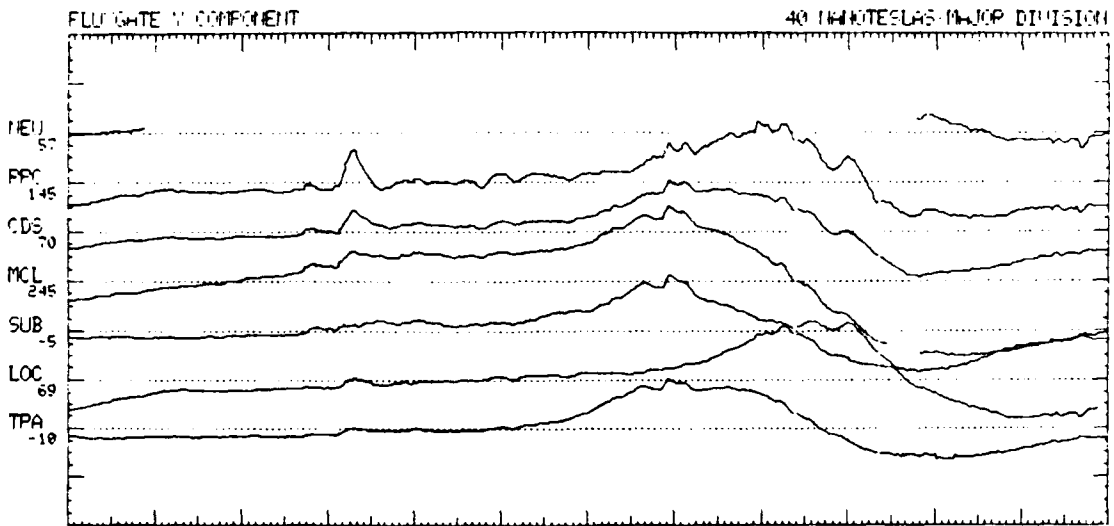
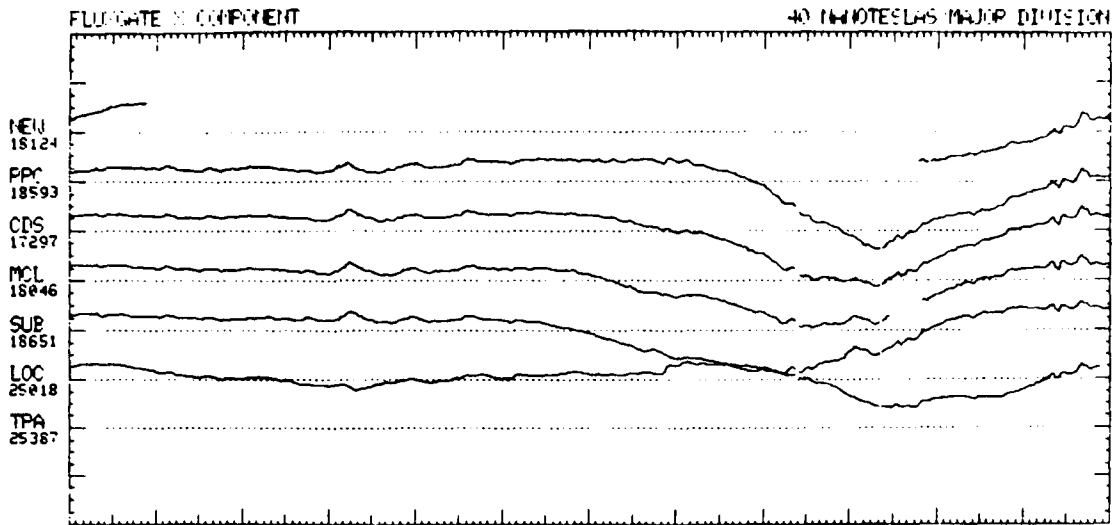


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
17 MAR 79 (DAY 79.076) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

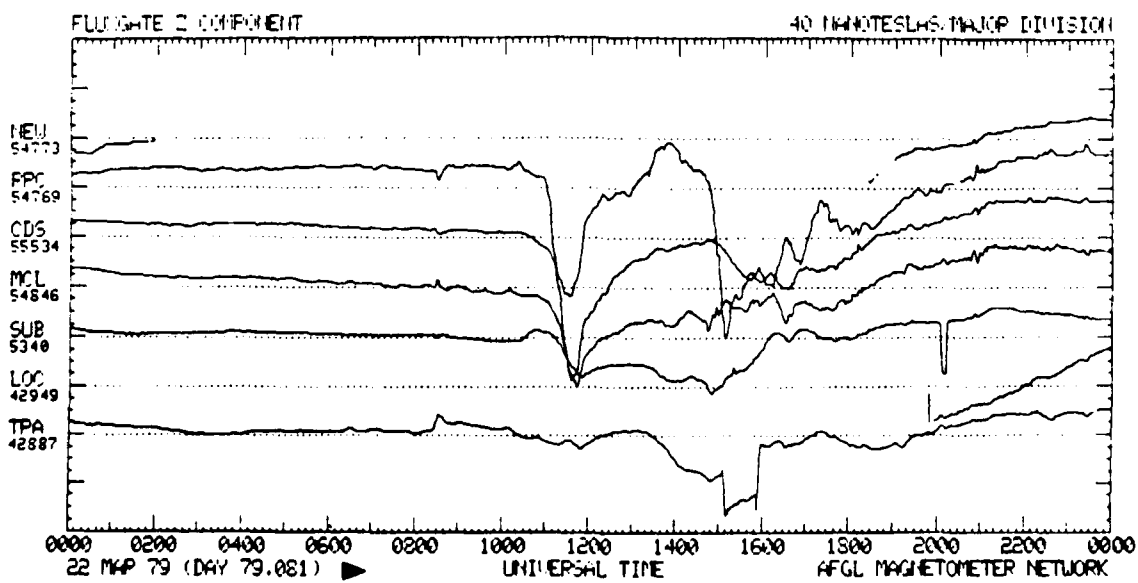
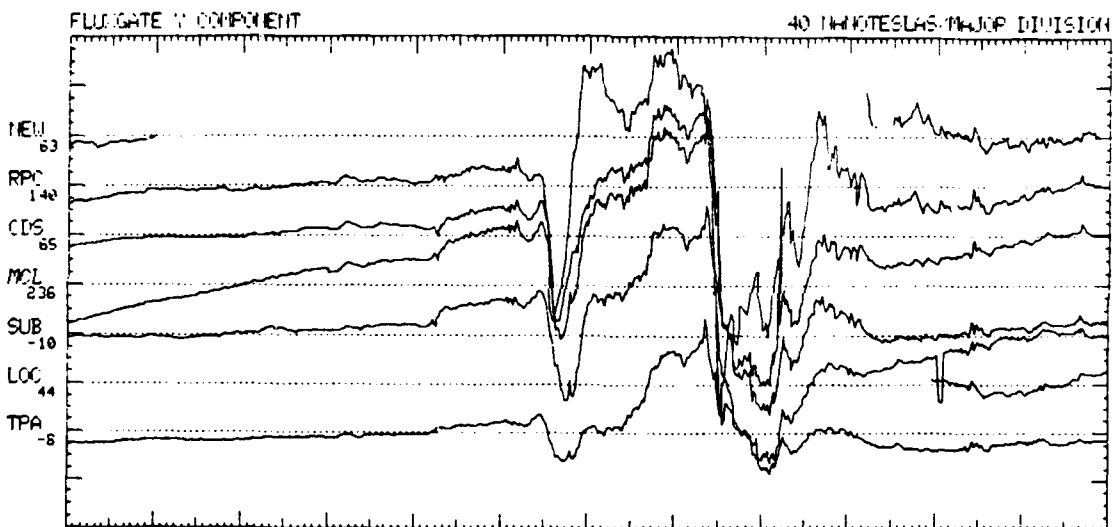
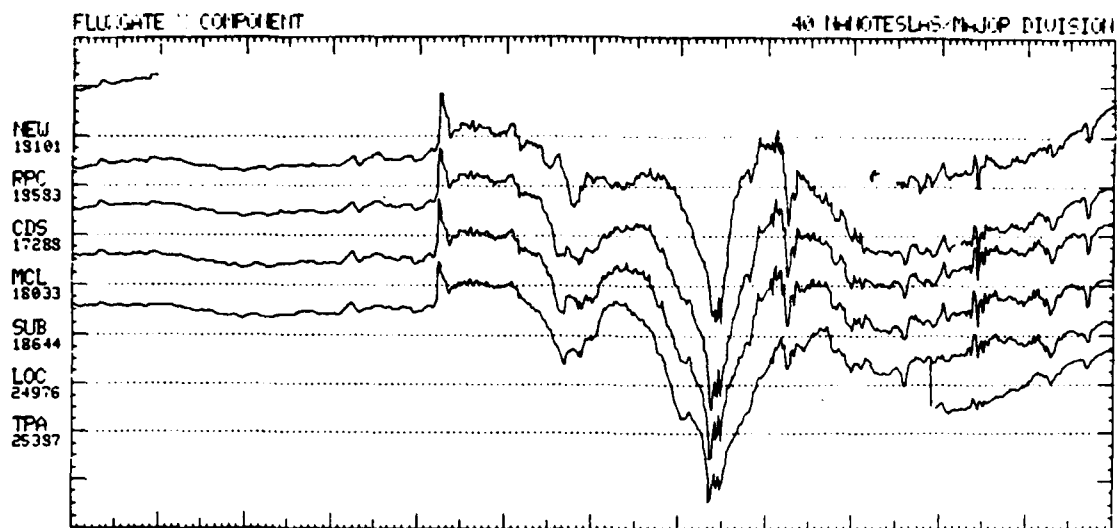




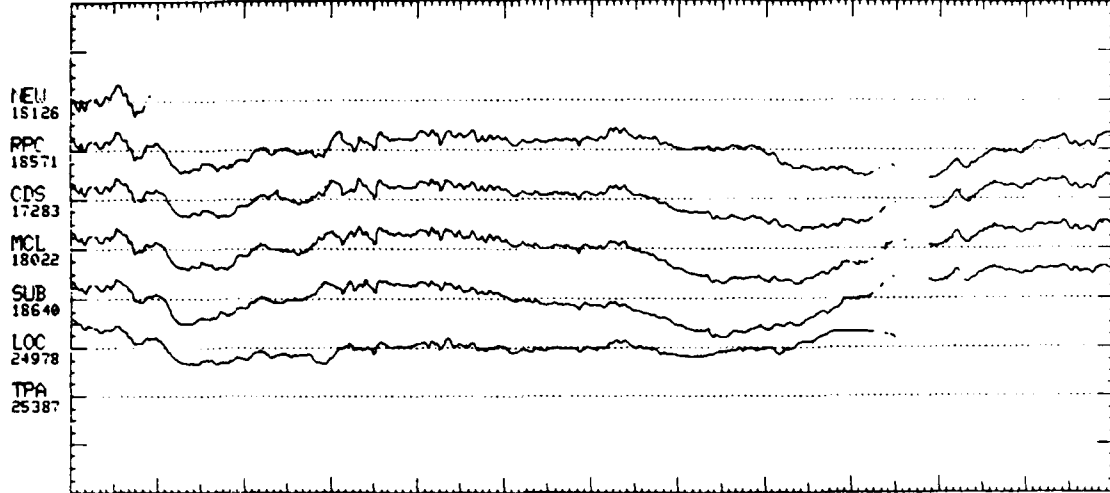




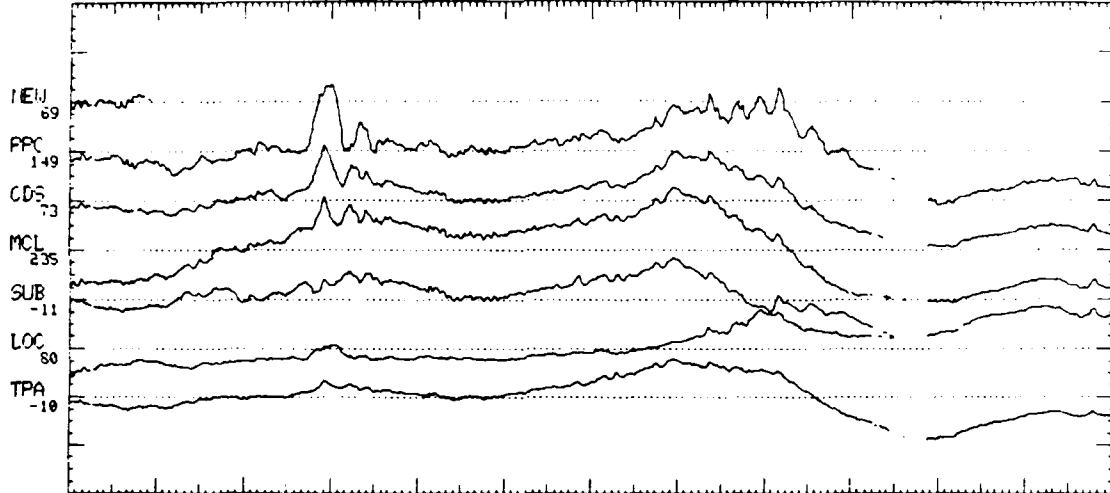
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 21 MAR 79 (DAY 79.080) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



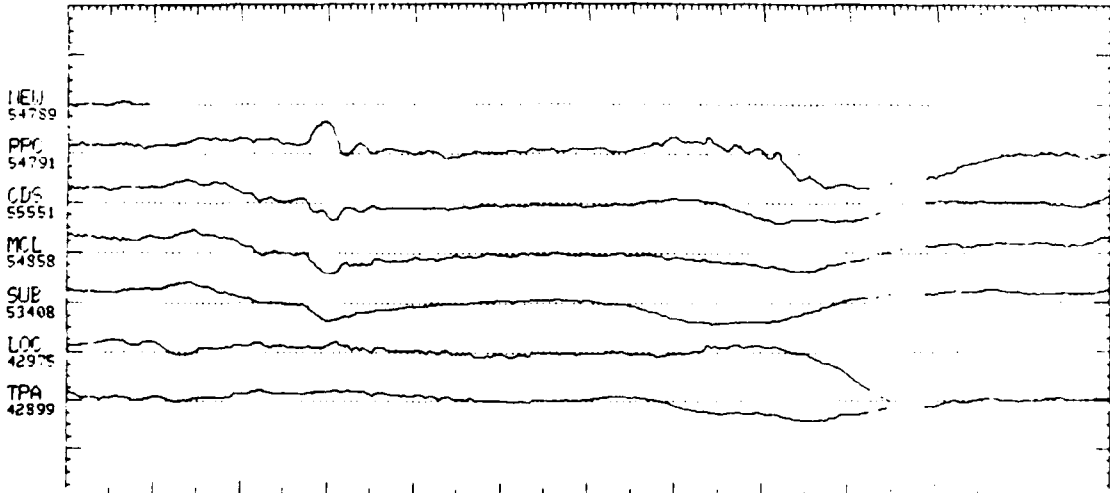
FLIGHT X COMPONENT 40 NANOTESLAH MAJOR DIVISION



FLIGHT Y COMPONENT 40 NANOTESLAH MAJOR DIVISION



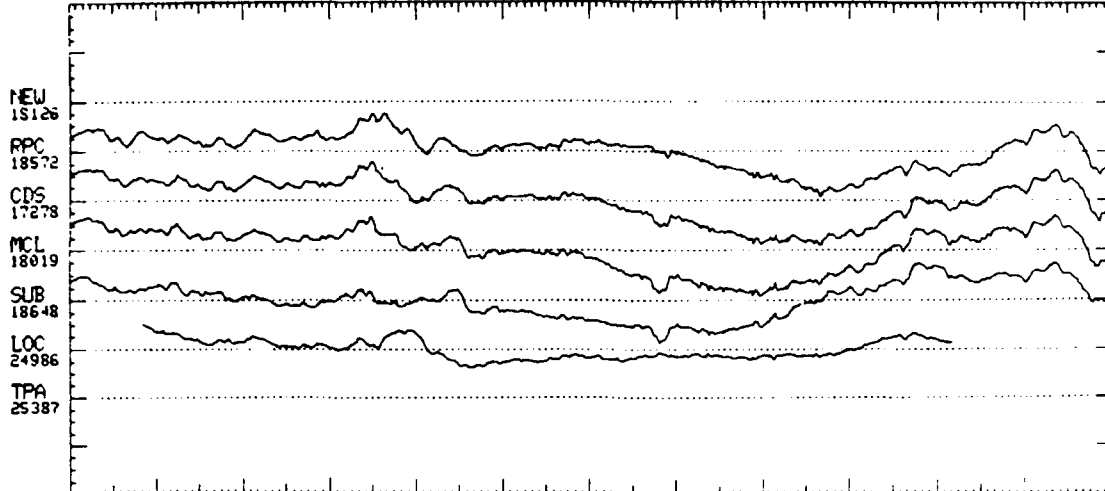
FLIGHT Z COMPONENT 40 NANOTESLAH MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 23 MAR 79 (DAY 79.022) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

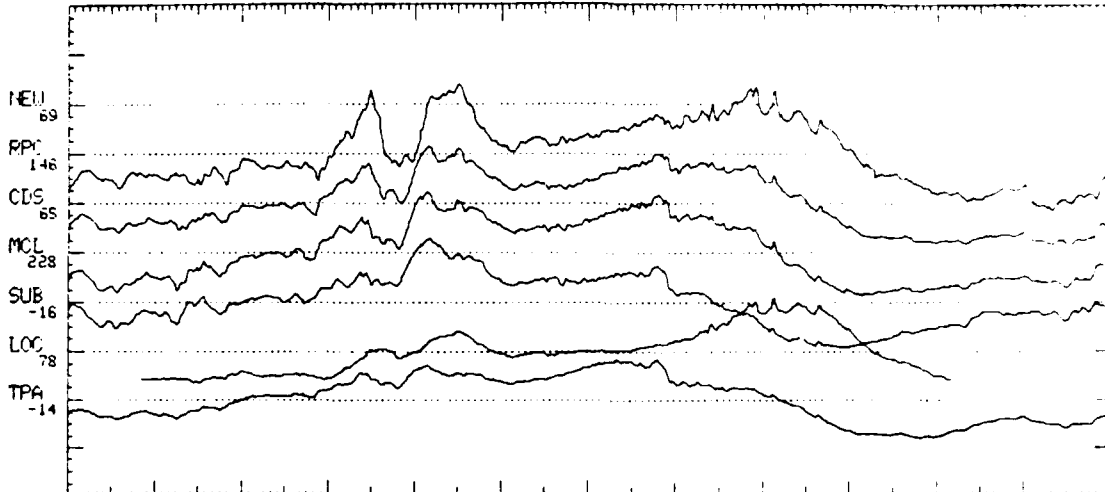
FLIGHTLINE X COMPONENT

40 THOTESLAS MAJOR DIVISION



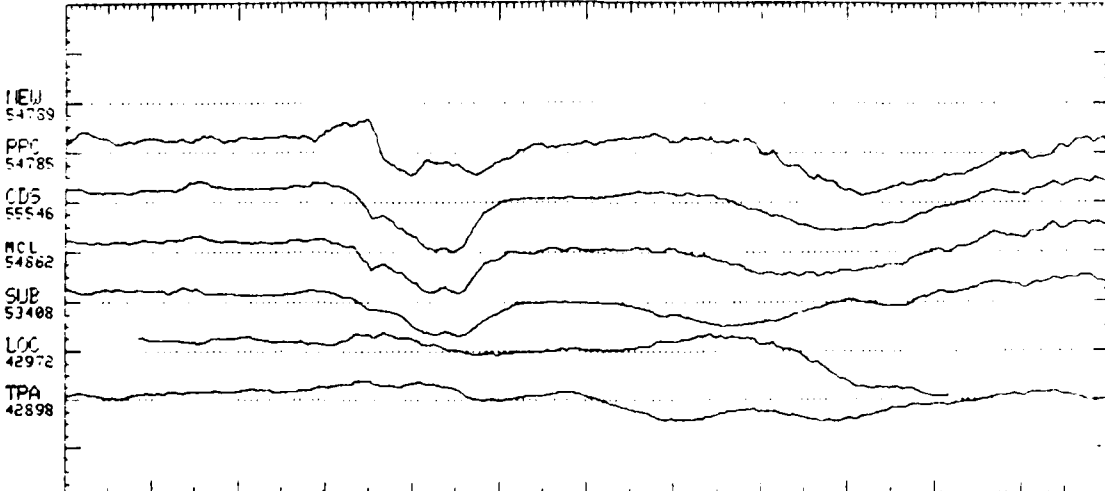
FLIGHTLINE Y COMPONENT

40 THOTESLAS MAJOR DIVISION

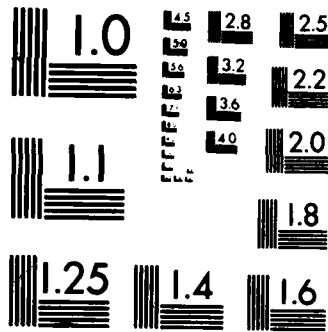


FLIGHTLINE Z COMPONENT

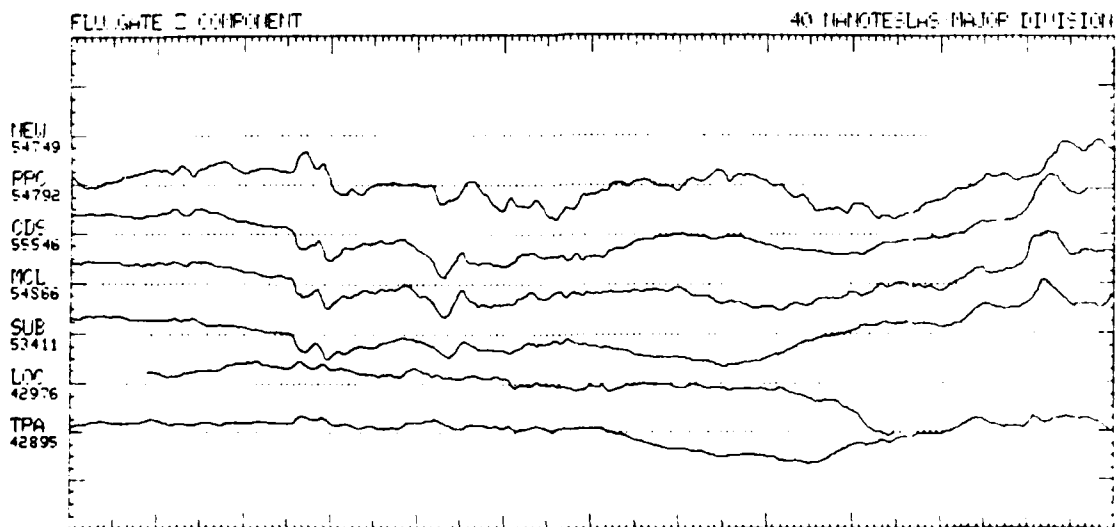
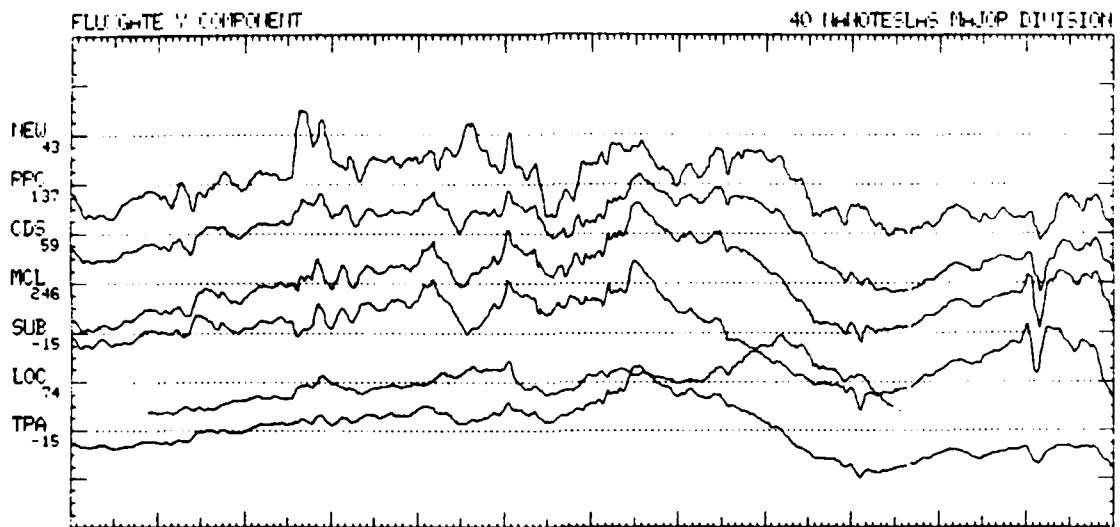
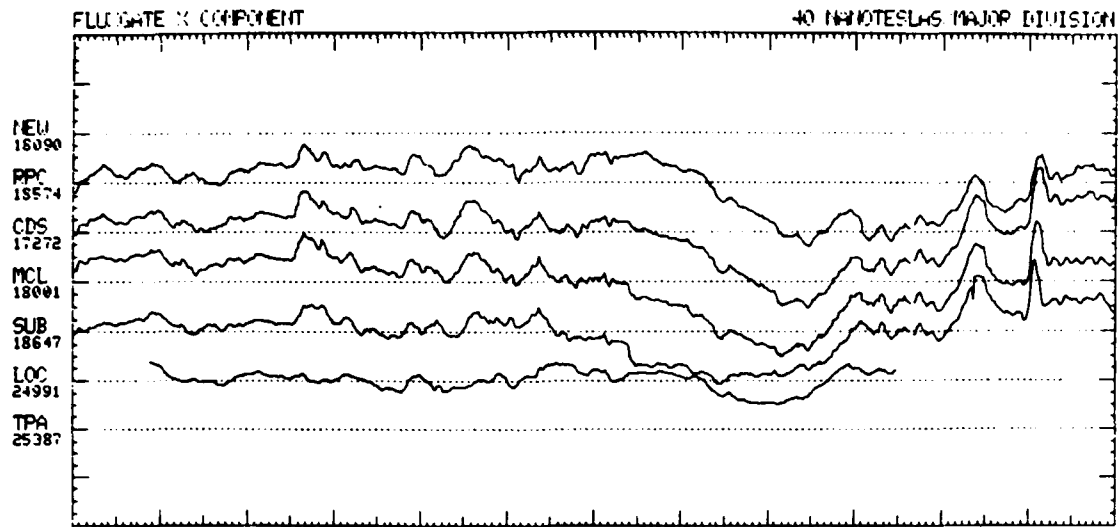
40 THOTESLAS MAJOR DIVISION



0200 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 24 MAR 79 (DAY 79.023) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



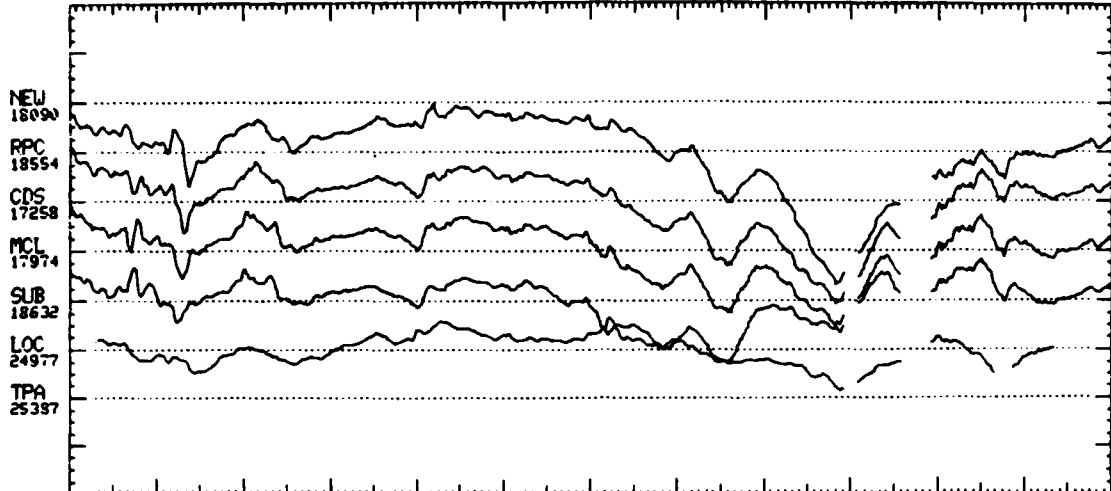
XEROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 25 MAR 79 (DAY 79.084) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

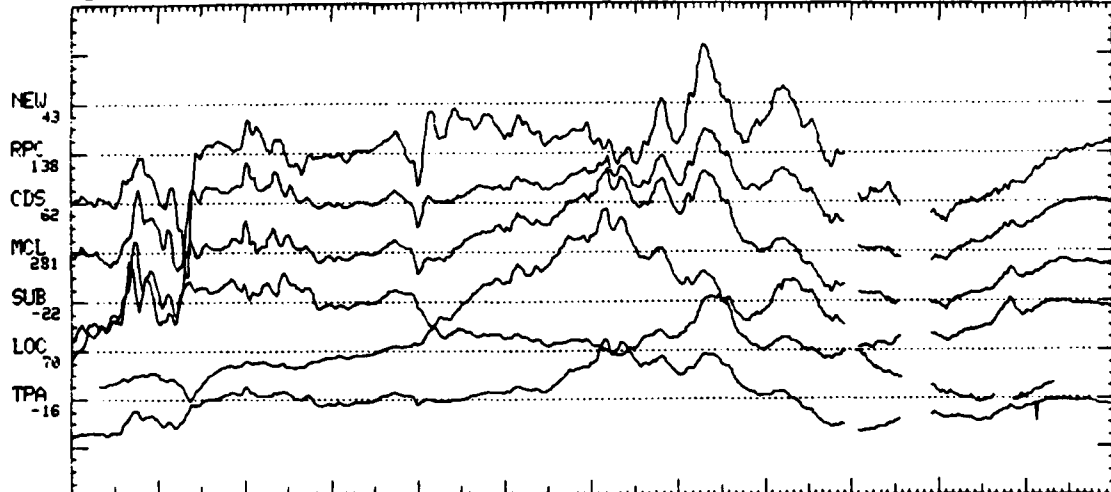
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



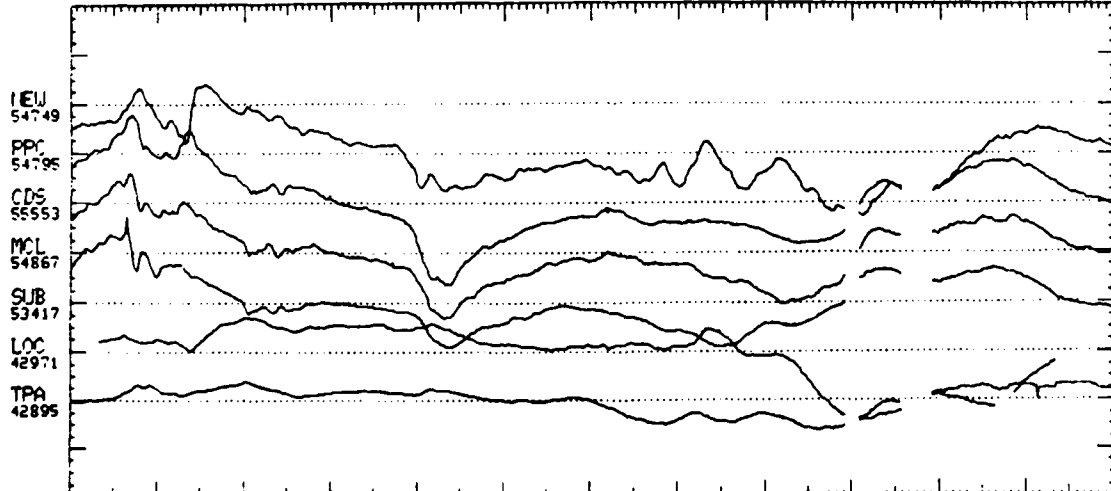
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

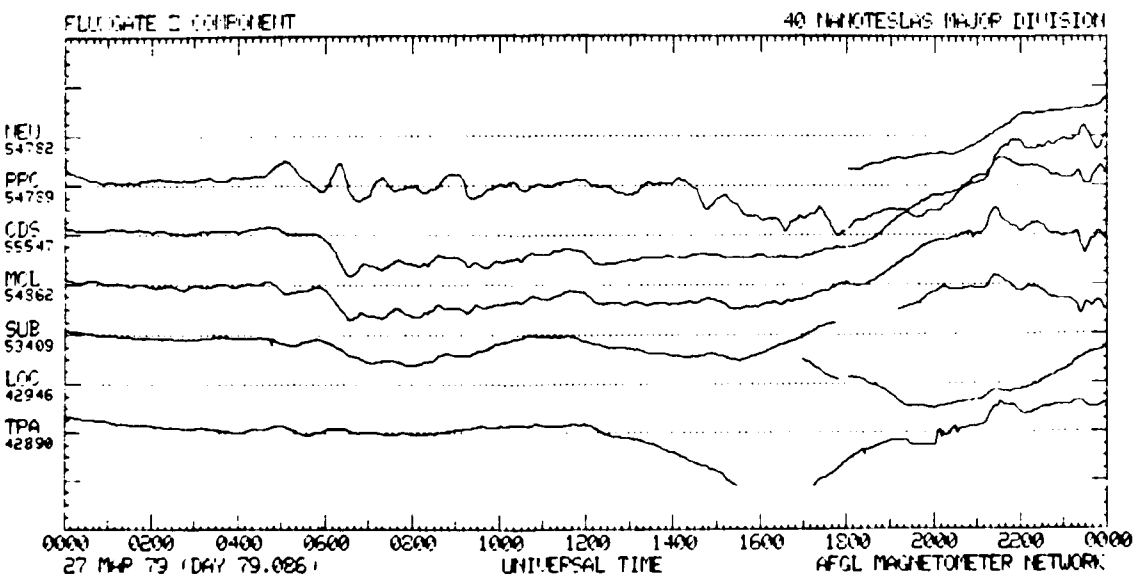
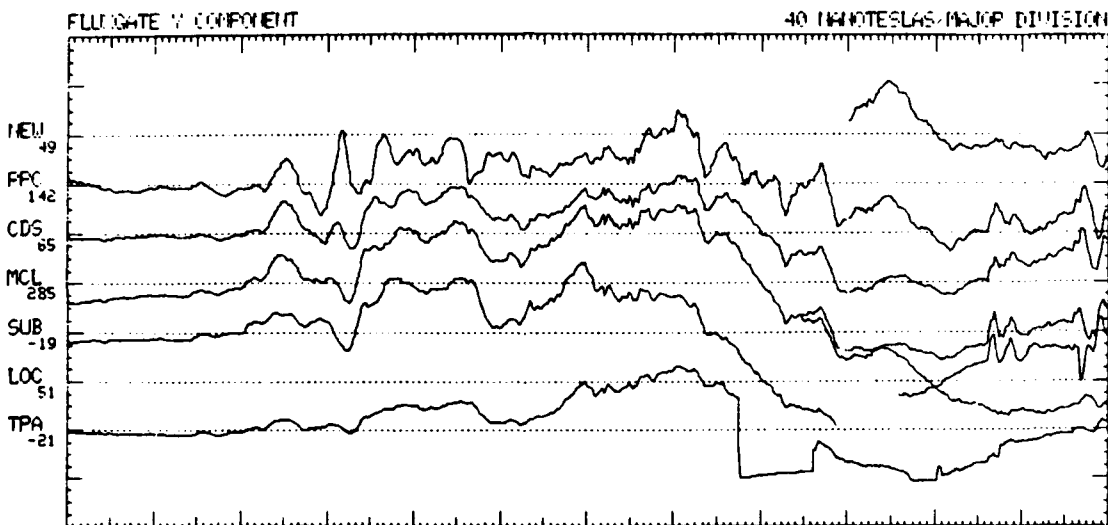
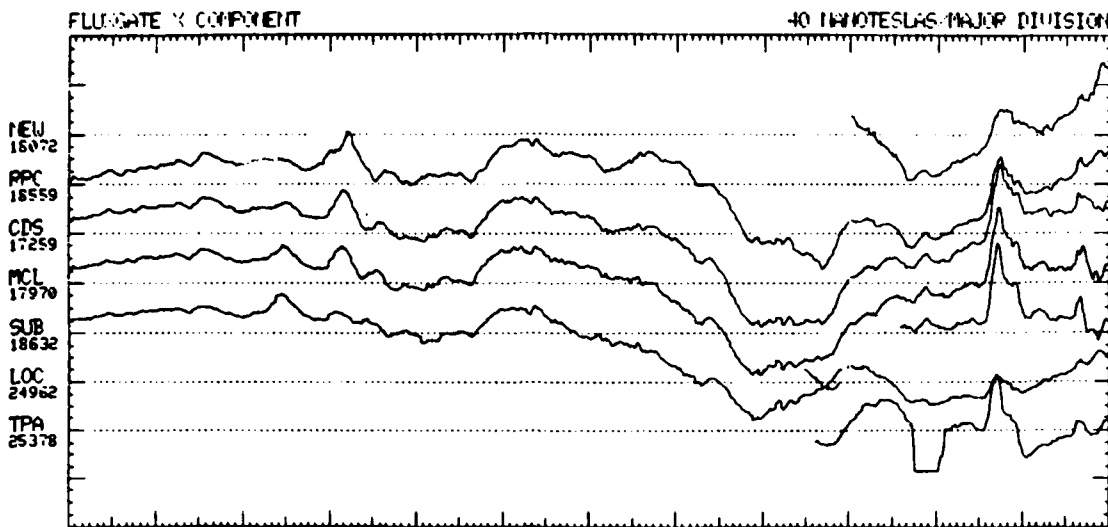


FLIGHTLINE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

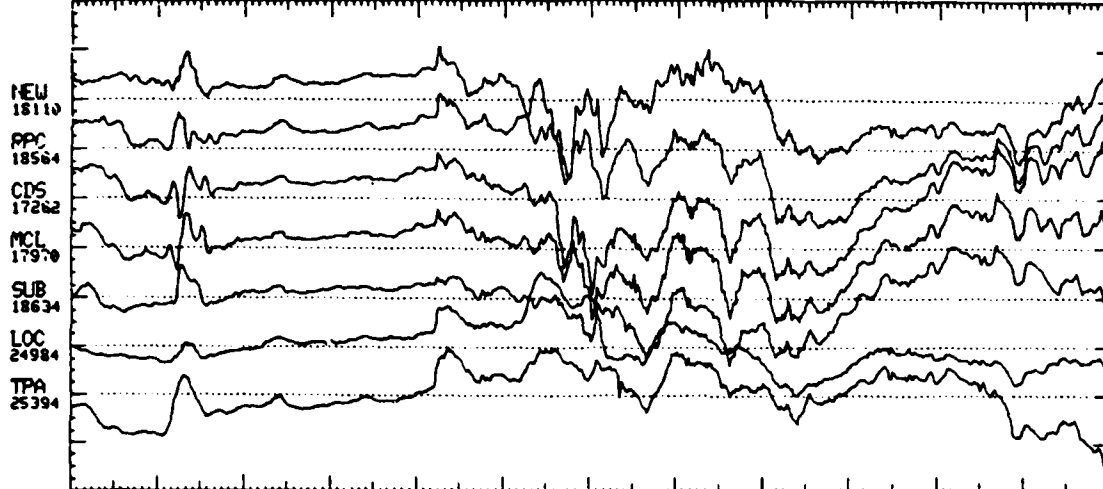


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 MAR 79 (DAY 79.025) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



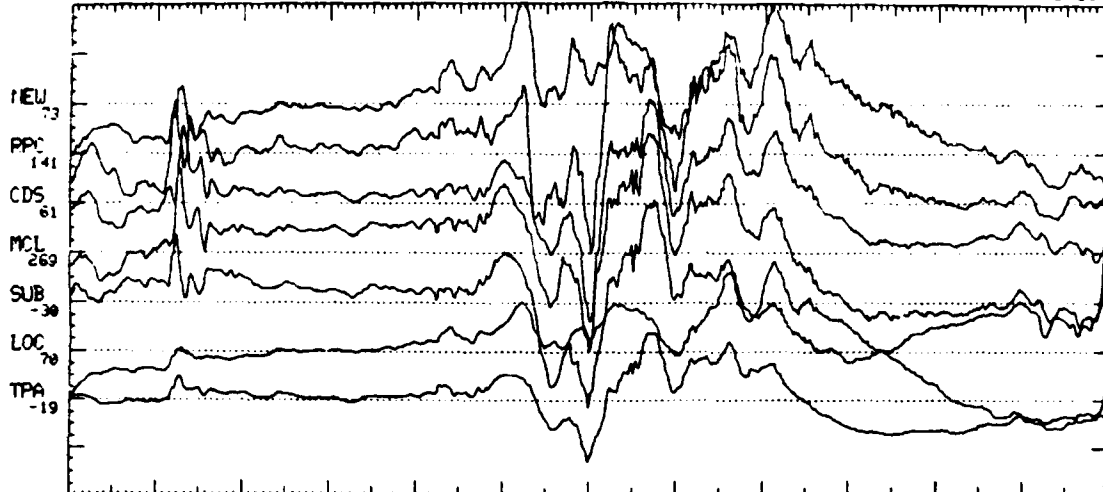
FLIGHTLINE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



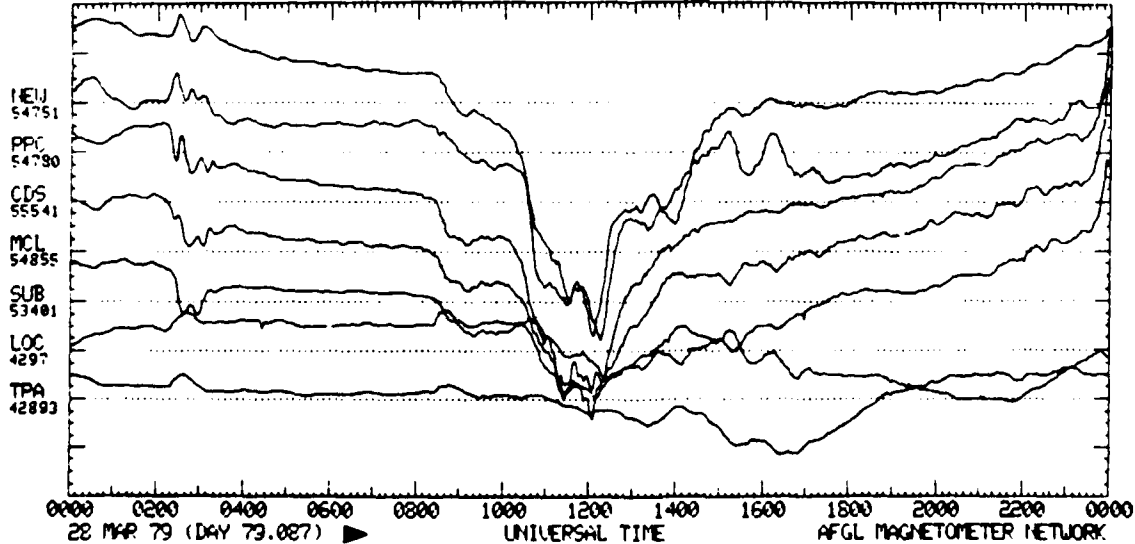
FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLIGHTLINE Z COMPONENT

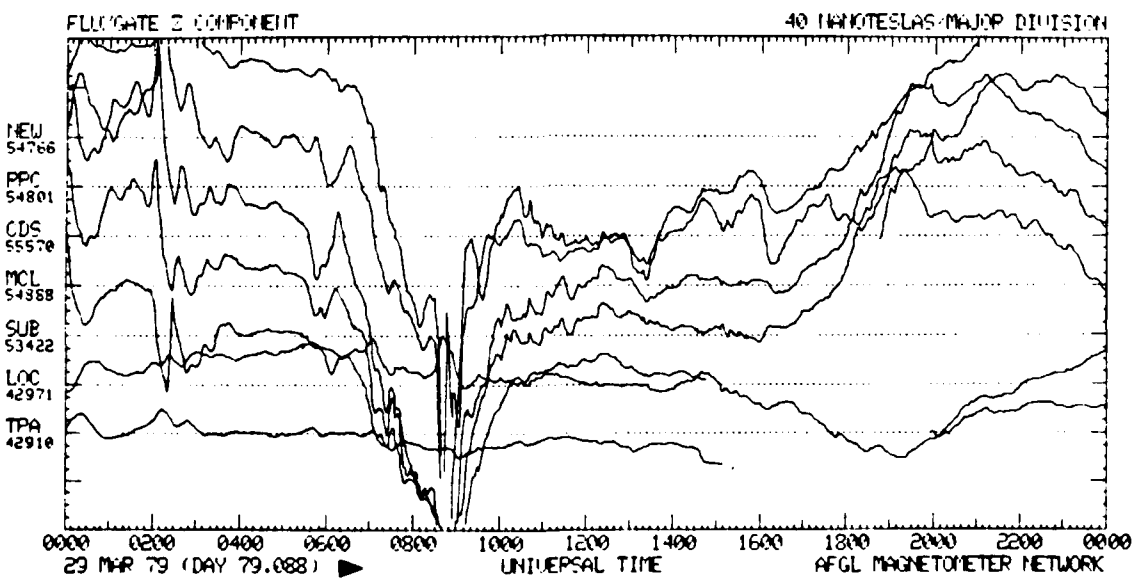
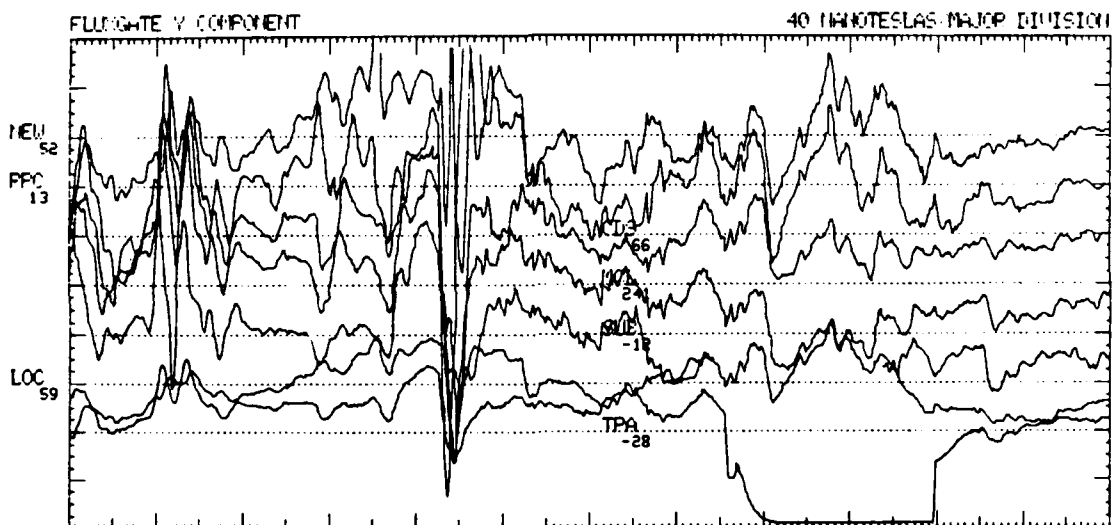
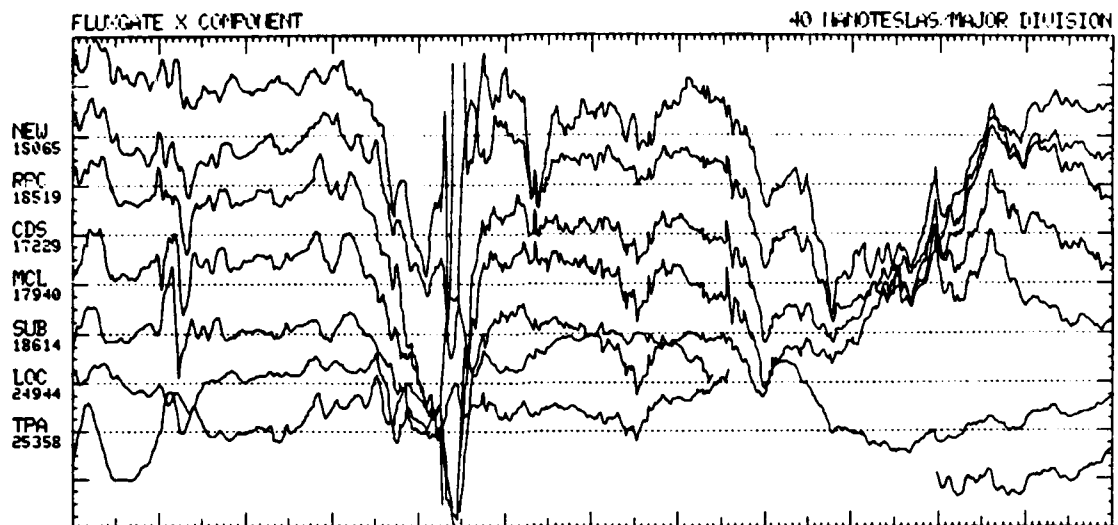
40 NANOTESLAS/MAJOR DIVISION

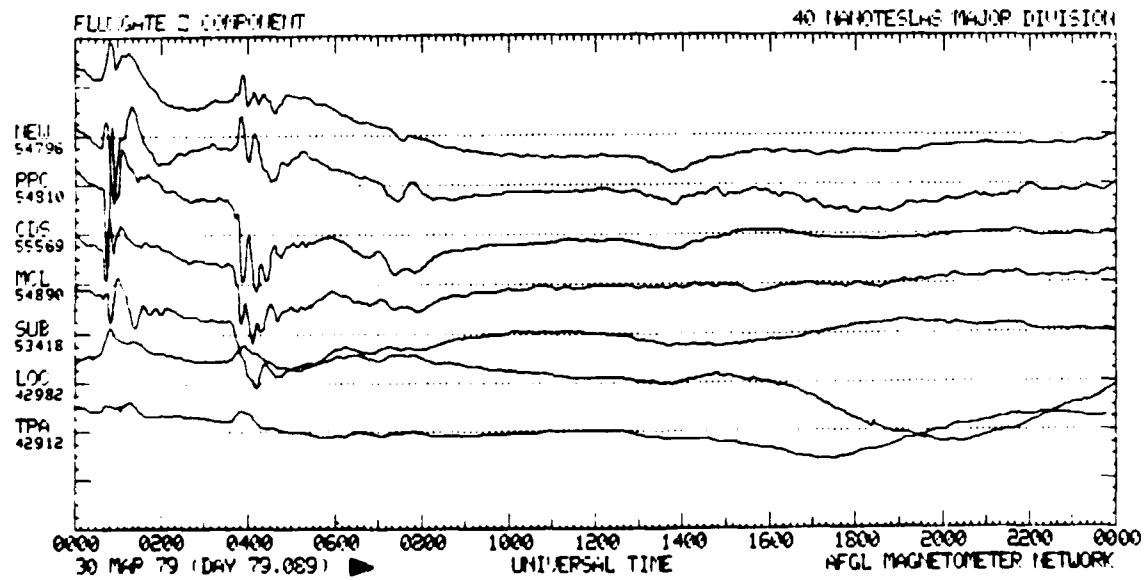
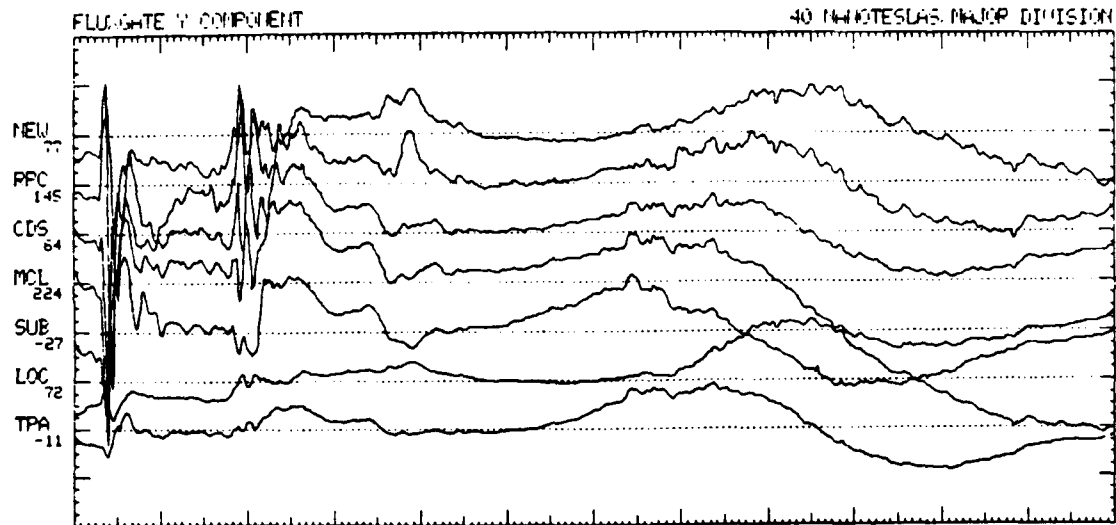
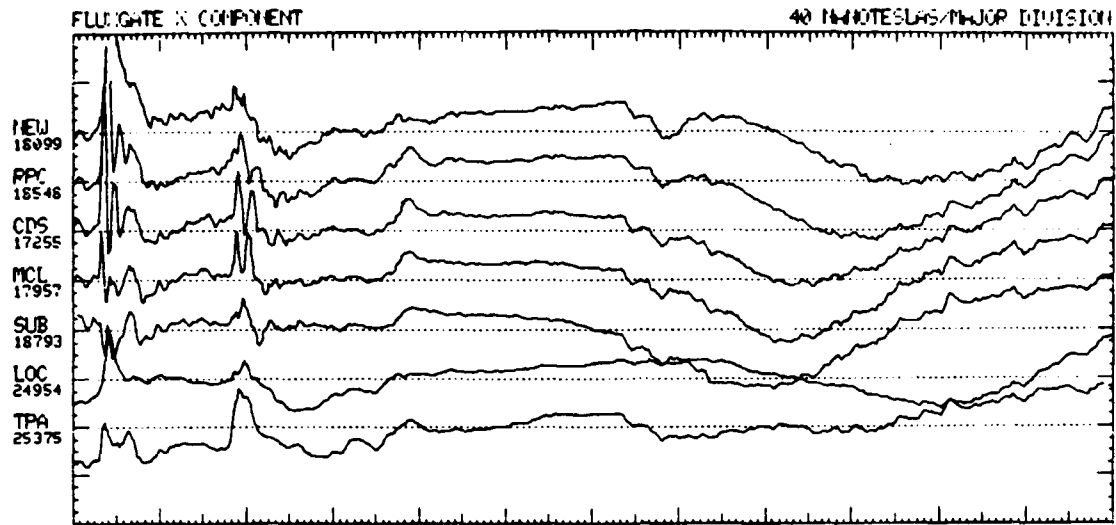


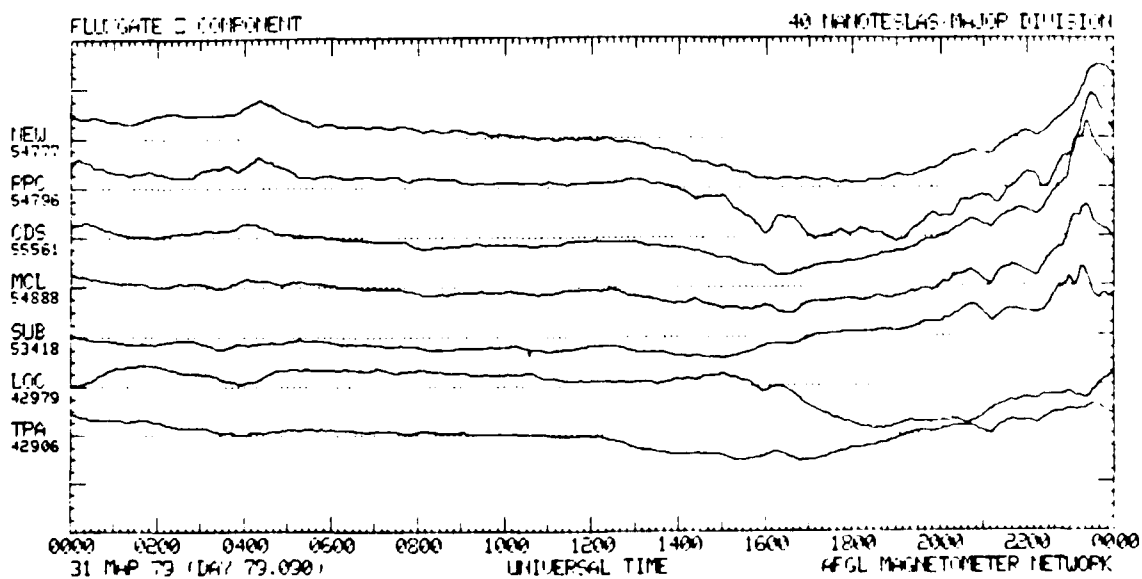
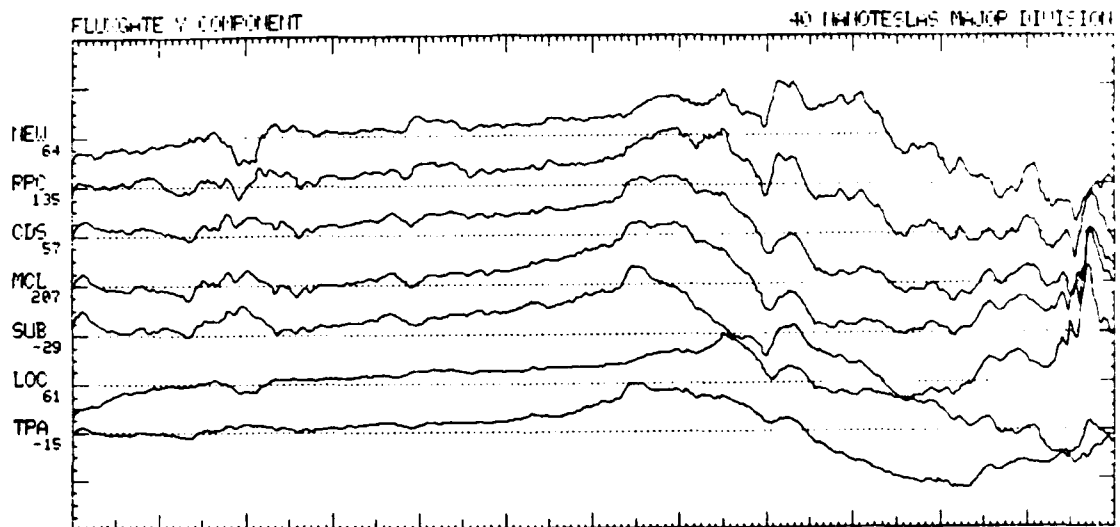
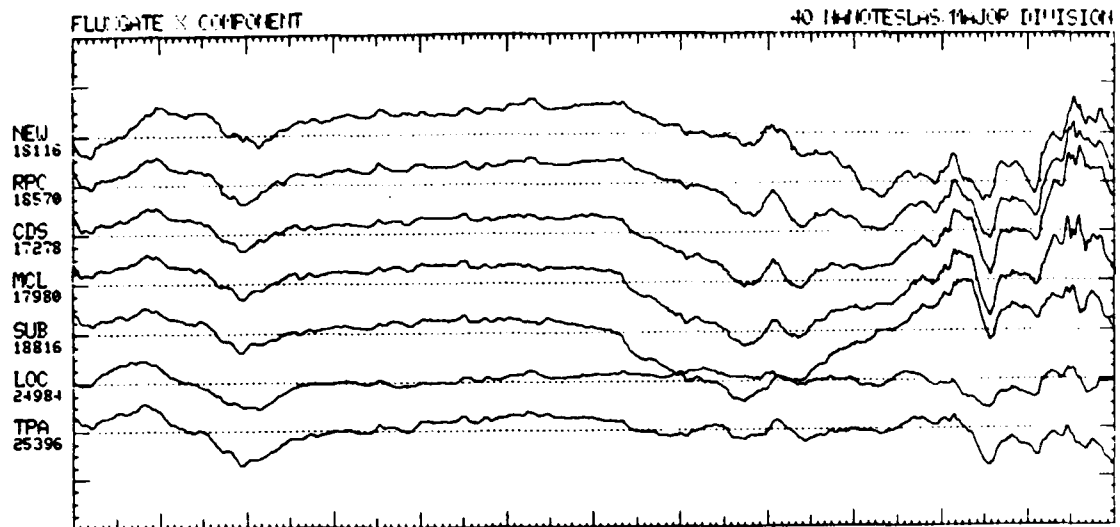
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 MAR 79 (DAY 79.027) ▶

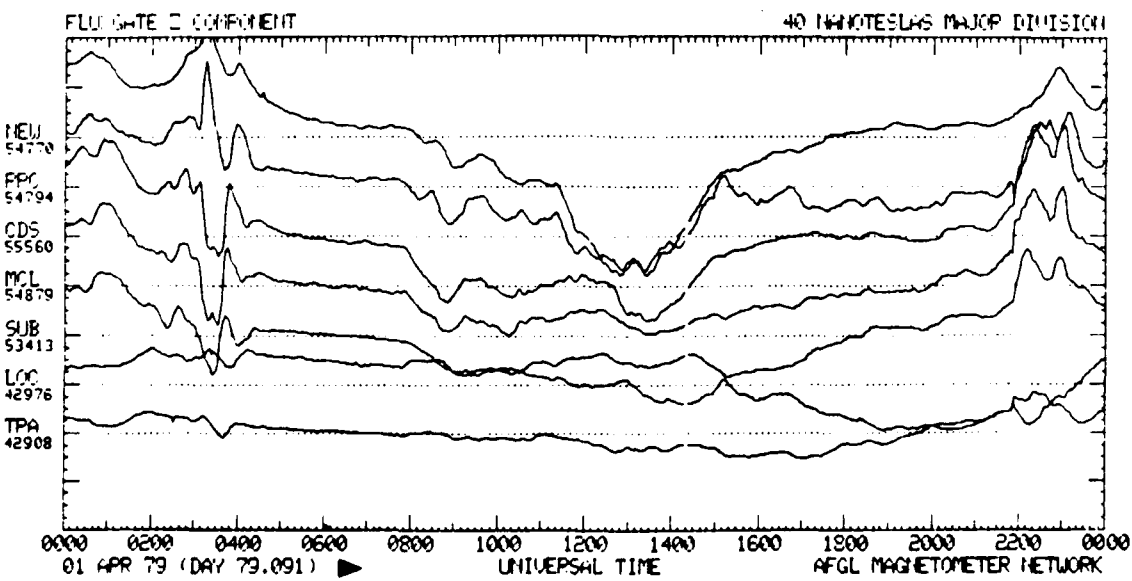
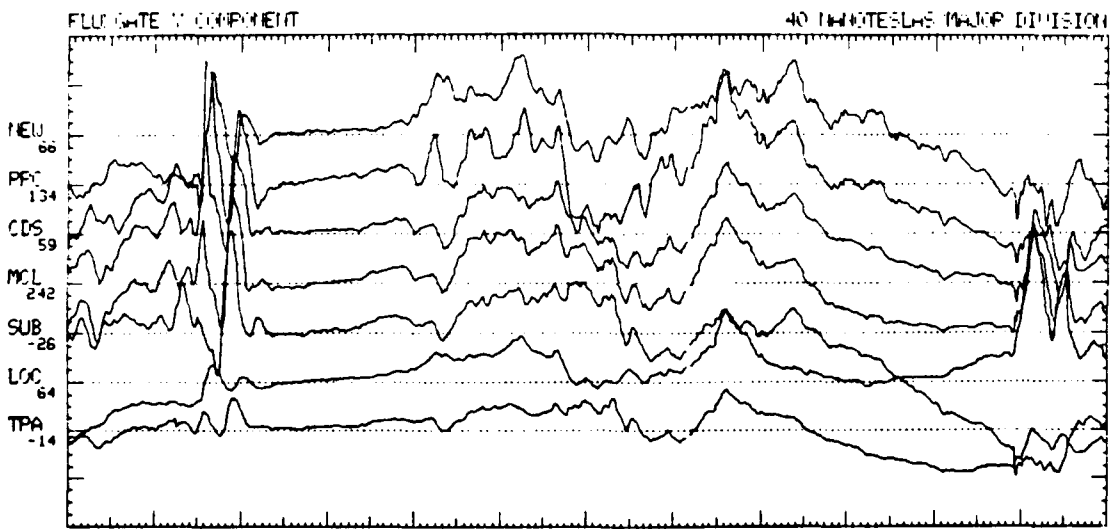
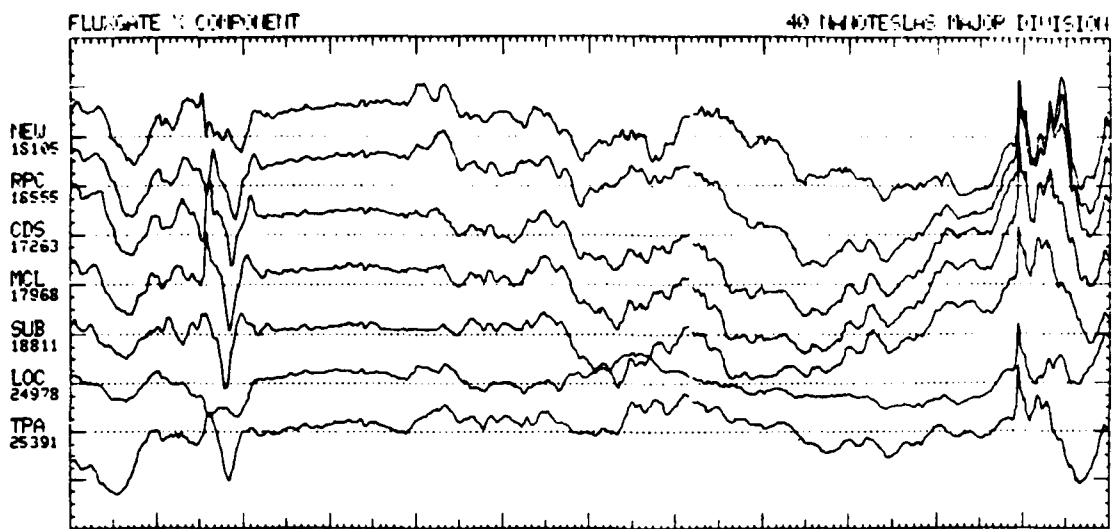
UNIVERSAL TIME

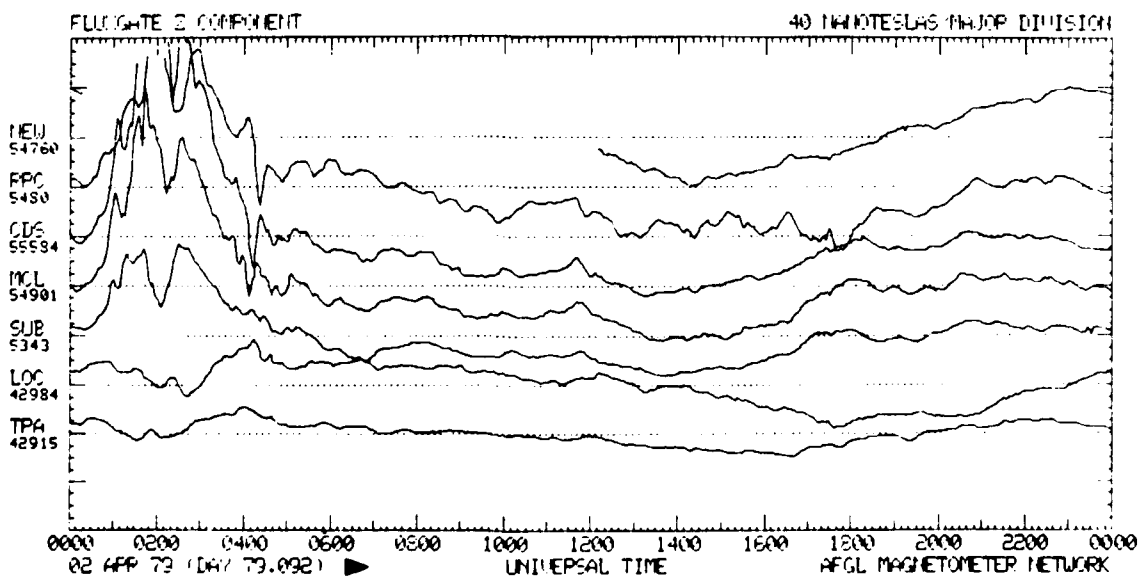
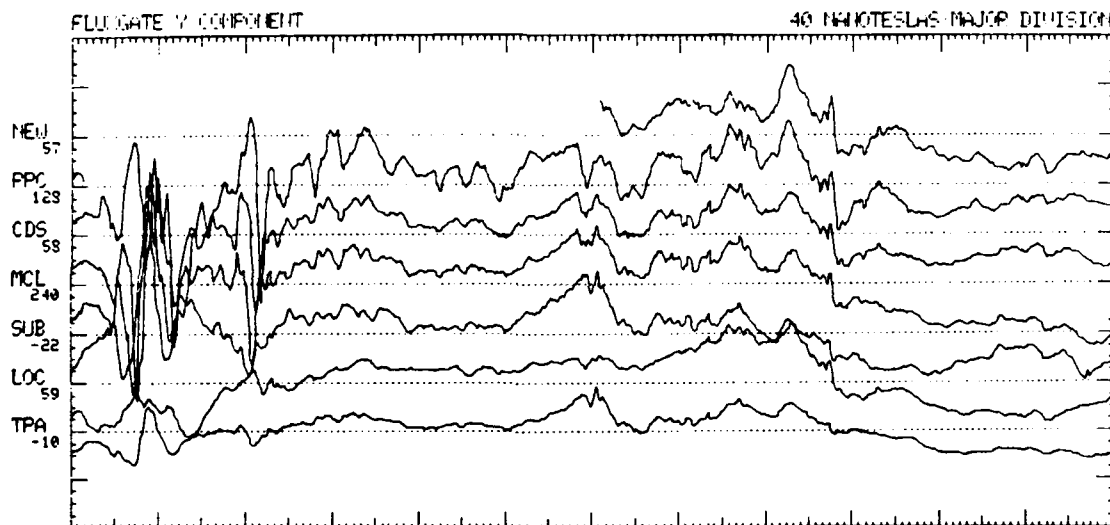
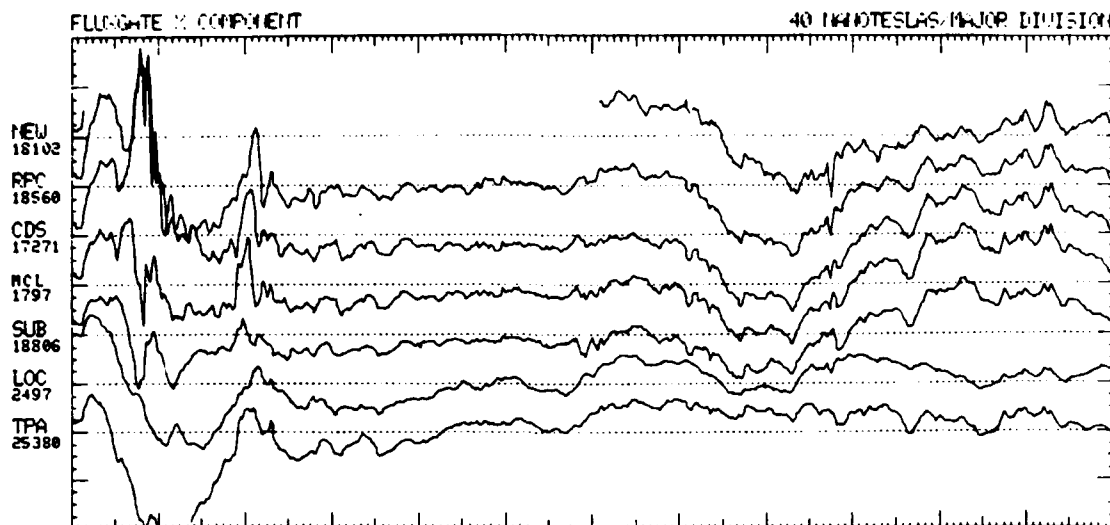
AFGL MAGNETOMETER NETWORK

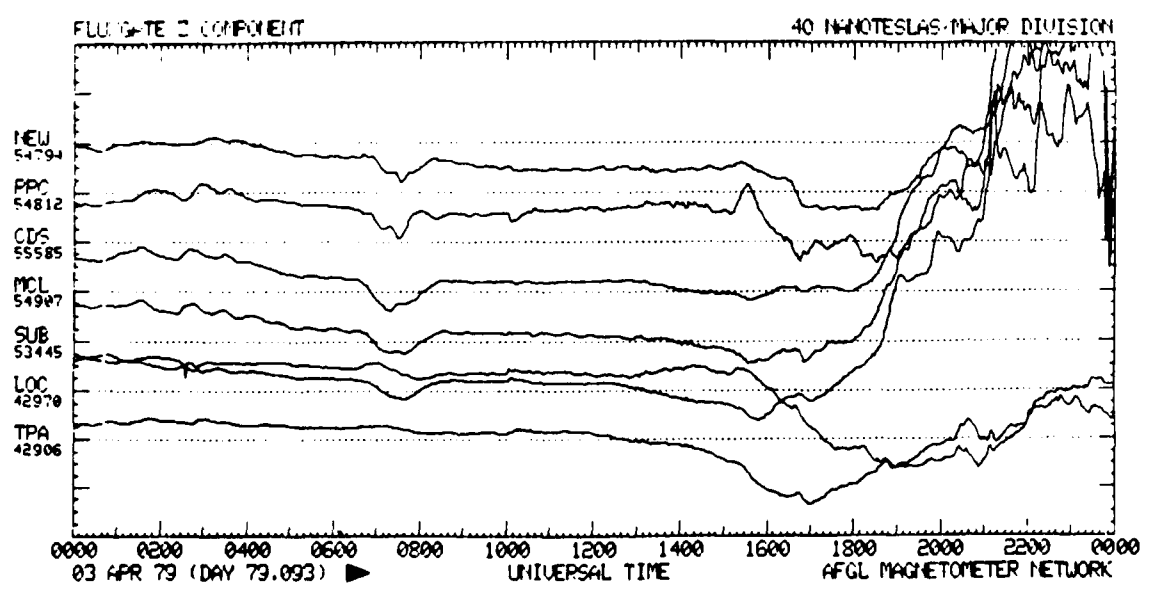
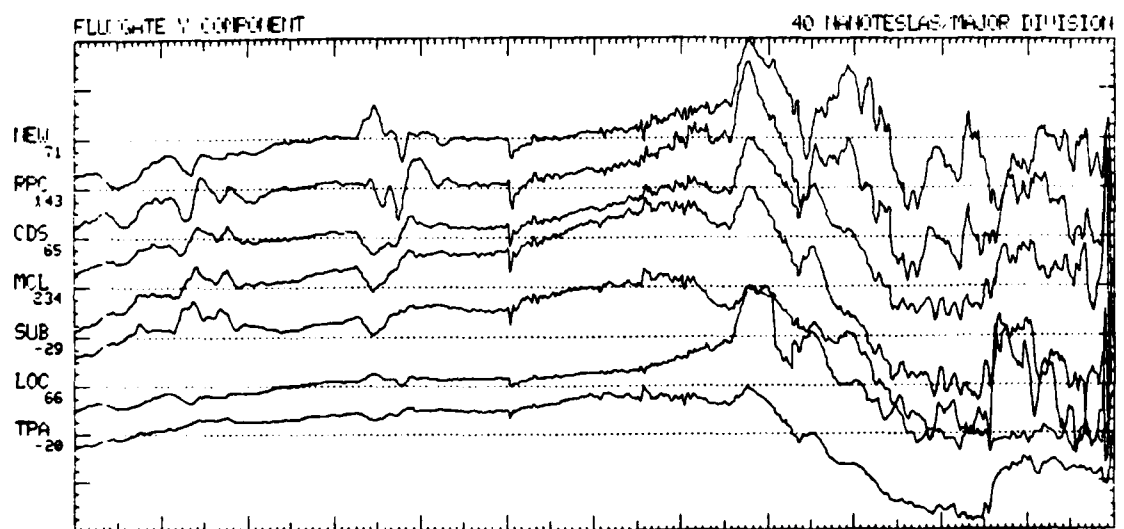
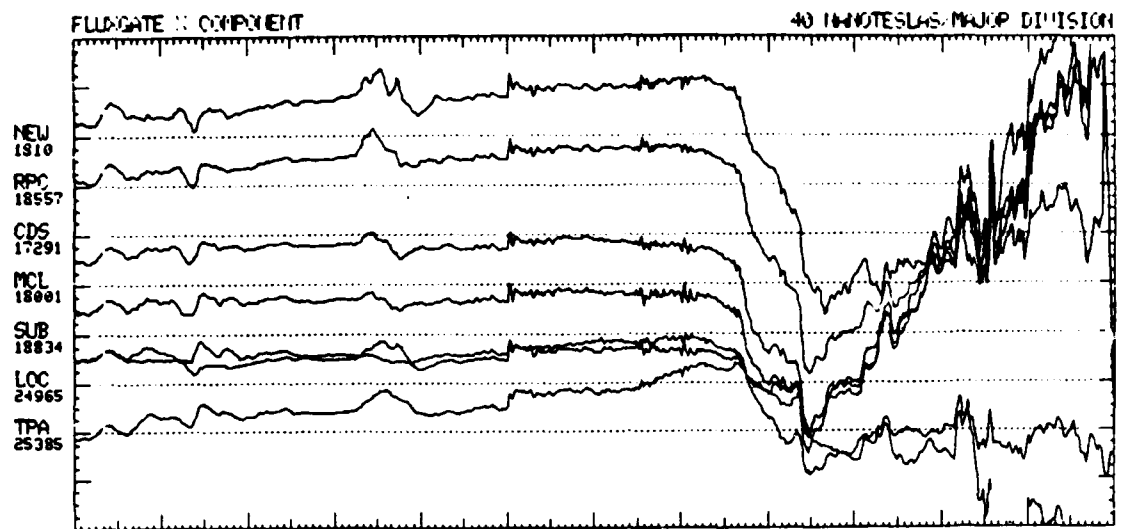


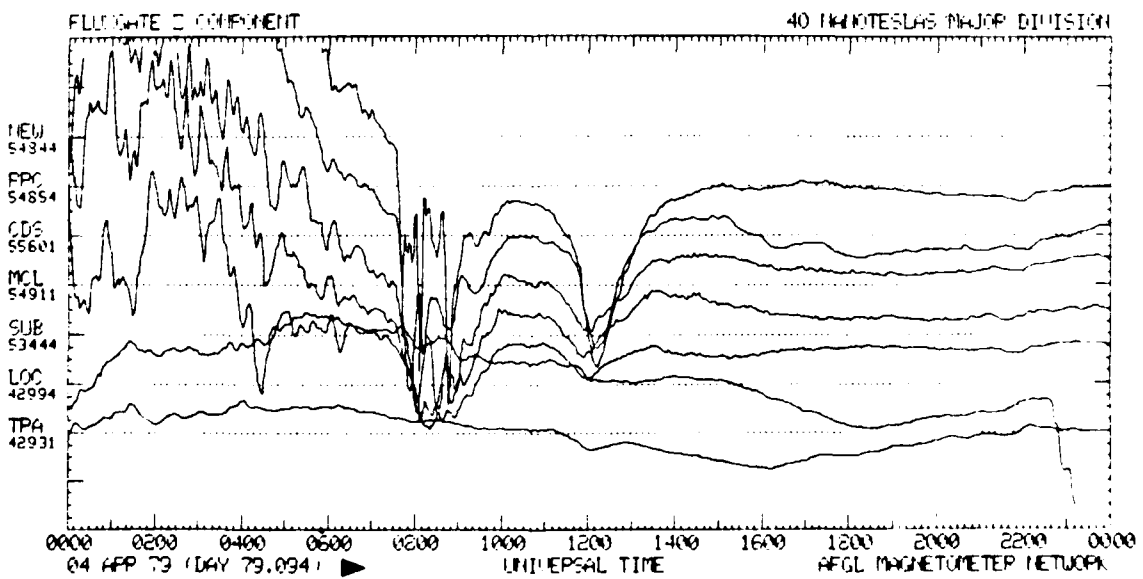
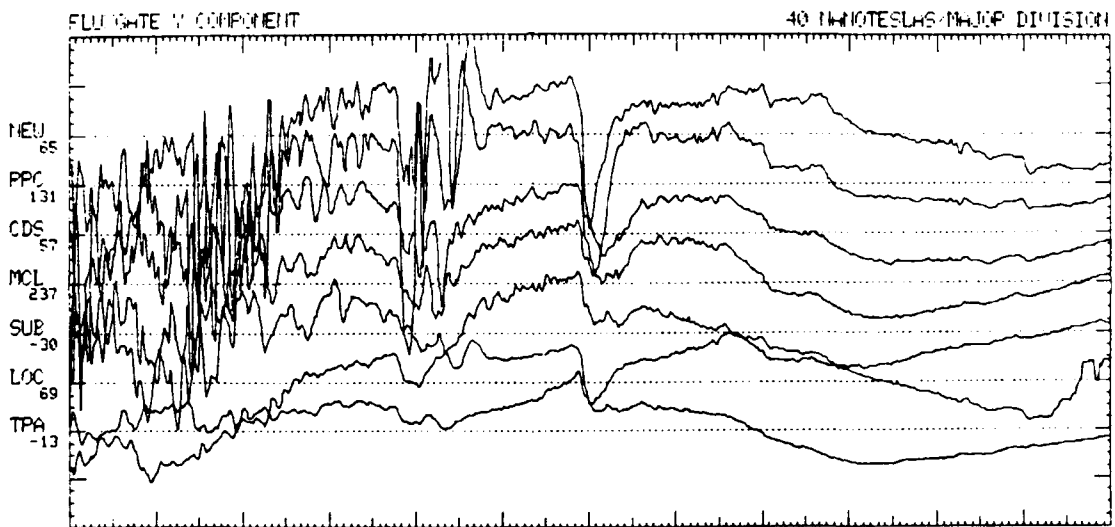
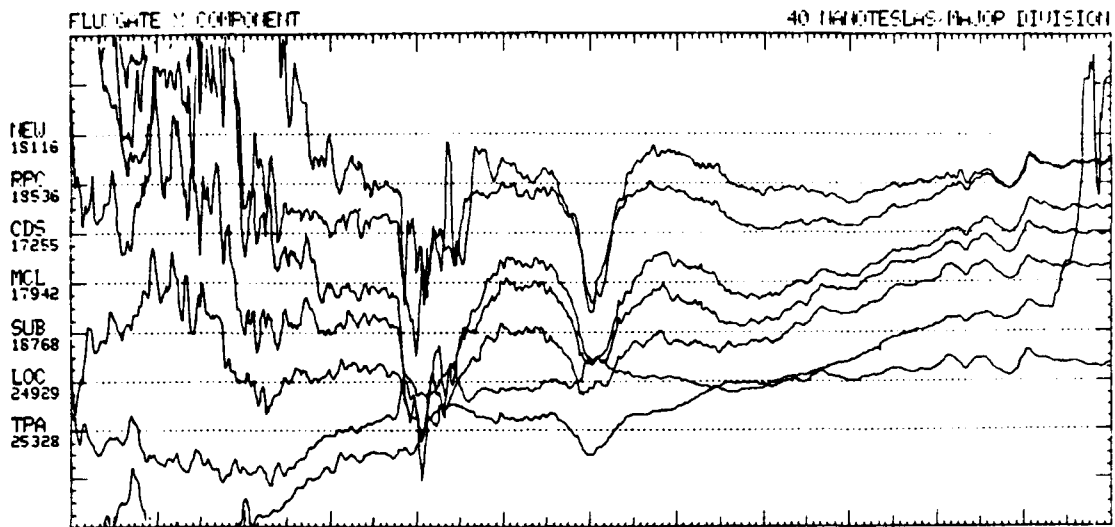






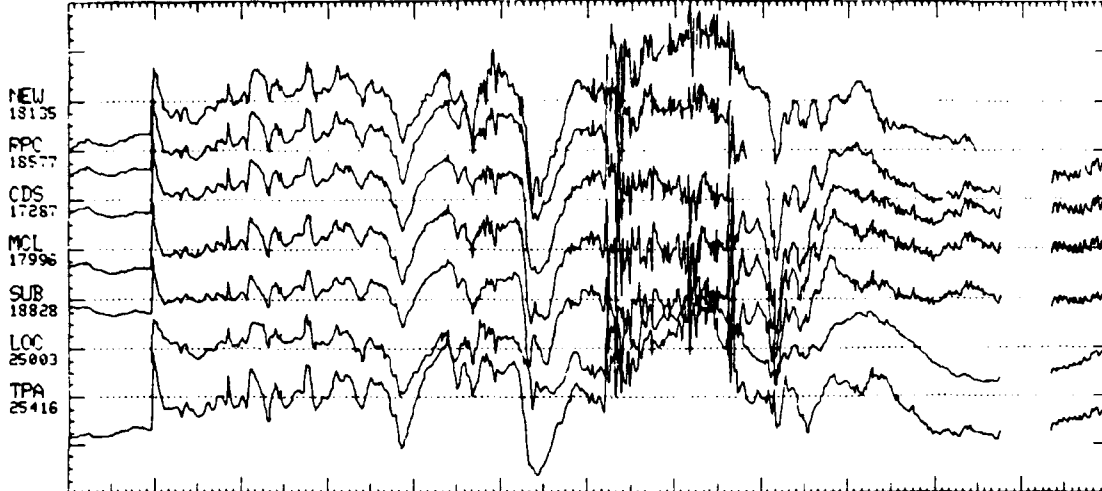






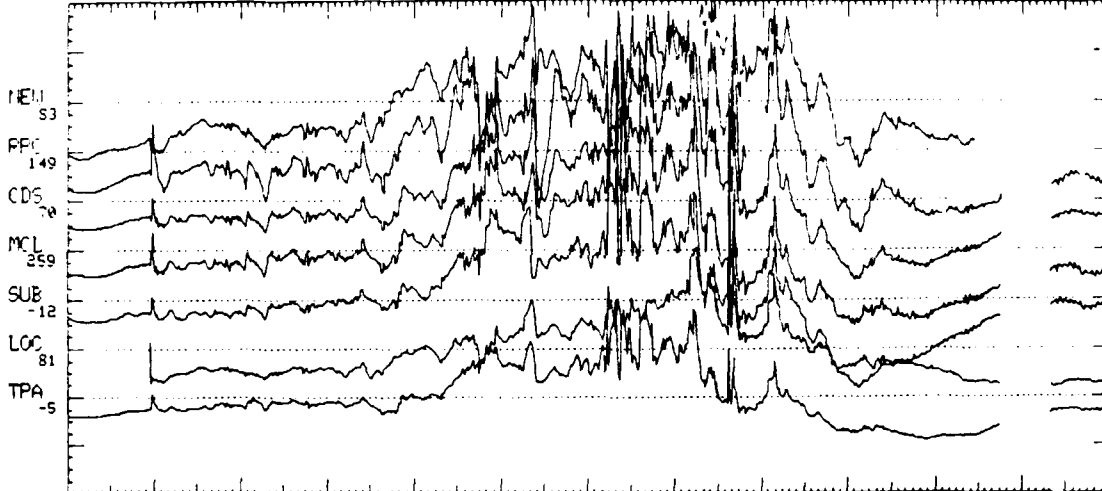
FLIGHTGATE II COMPONENT

40 INKOTESLAS MAJOR DIVISION



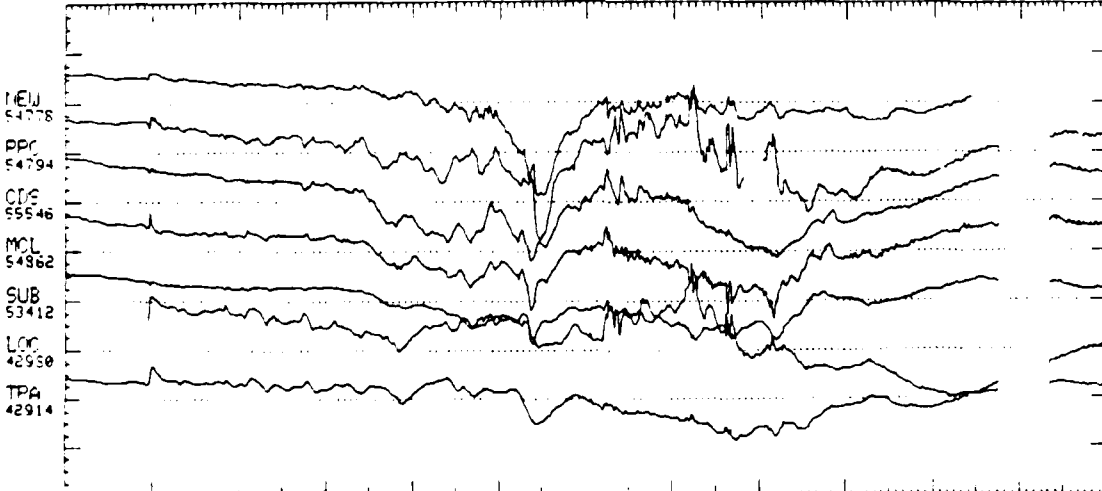
FLIGHTGATE V COMPONENT

40 INKOTESLAS MAJOR DIVISION

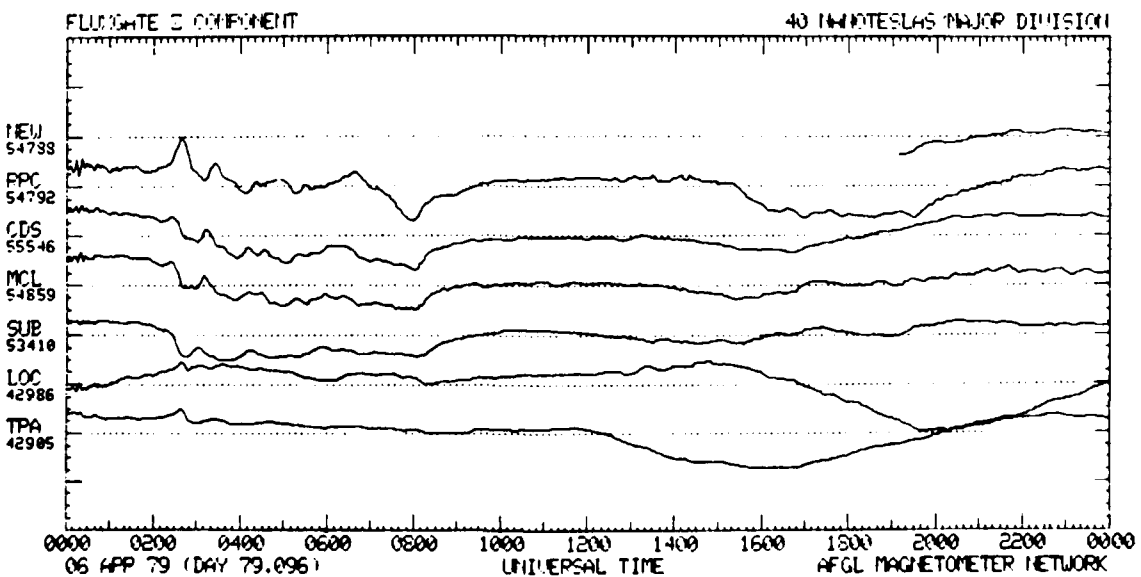
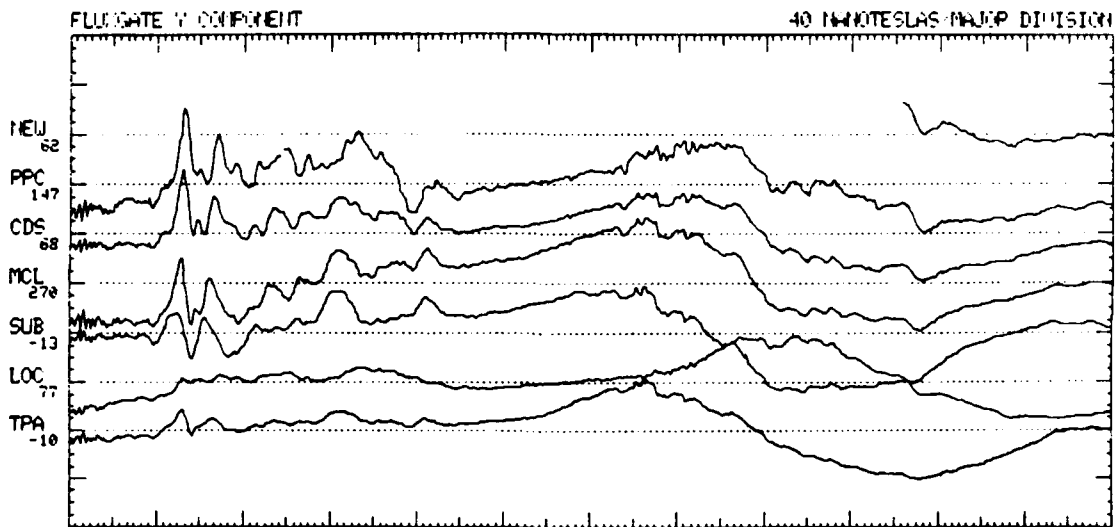
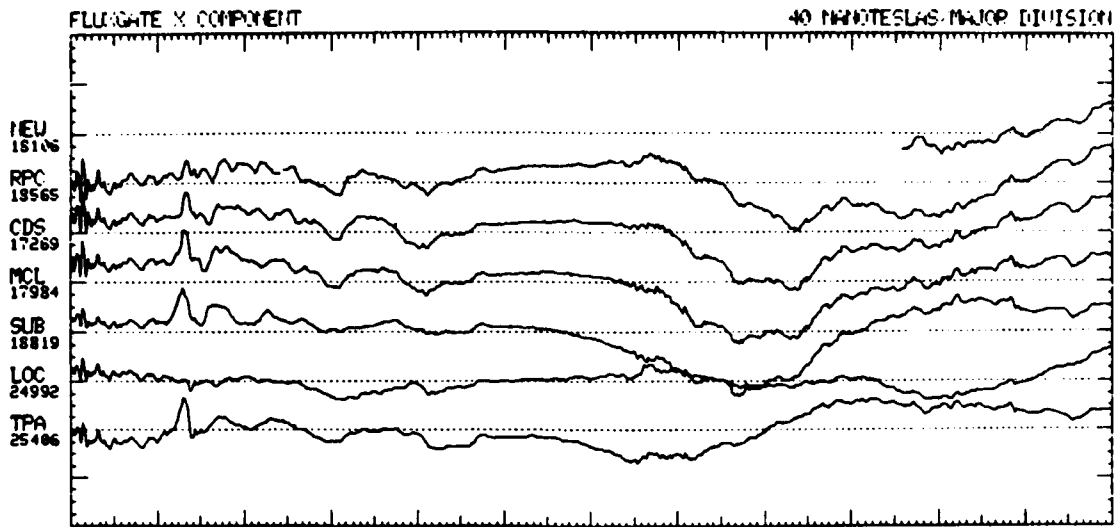


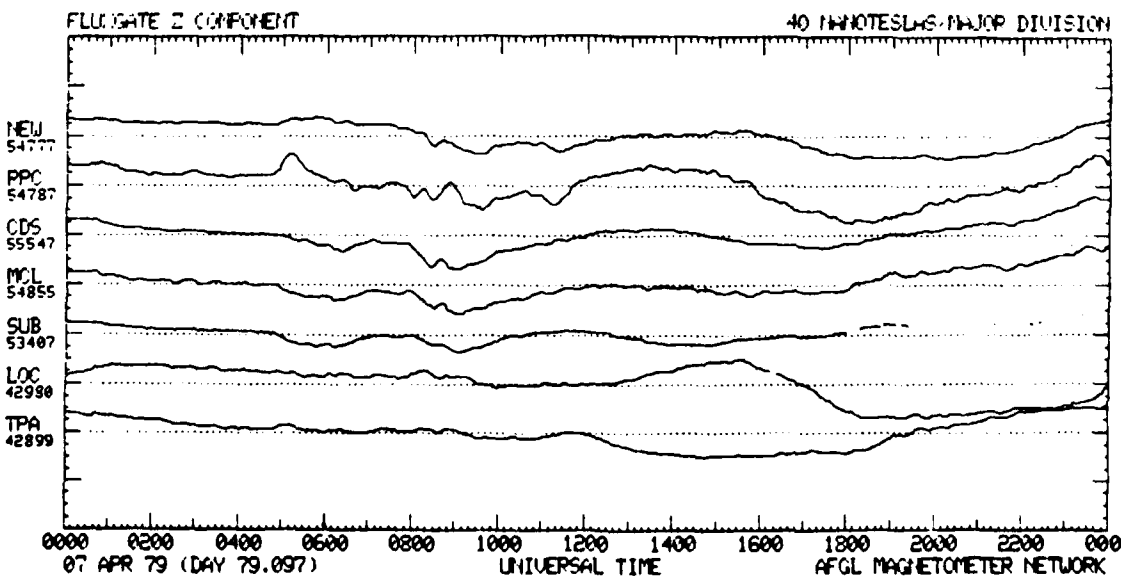
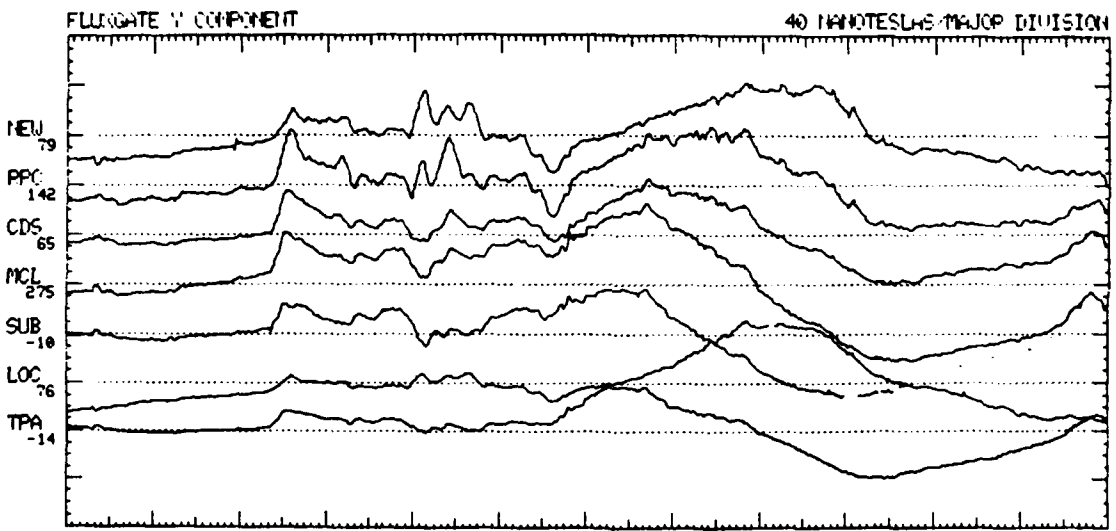
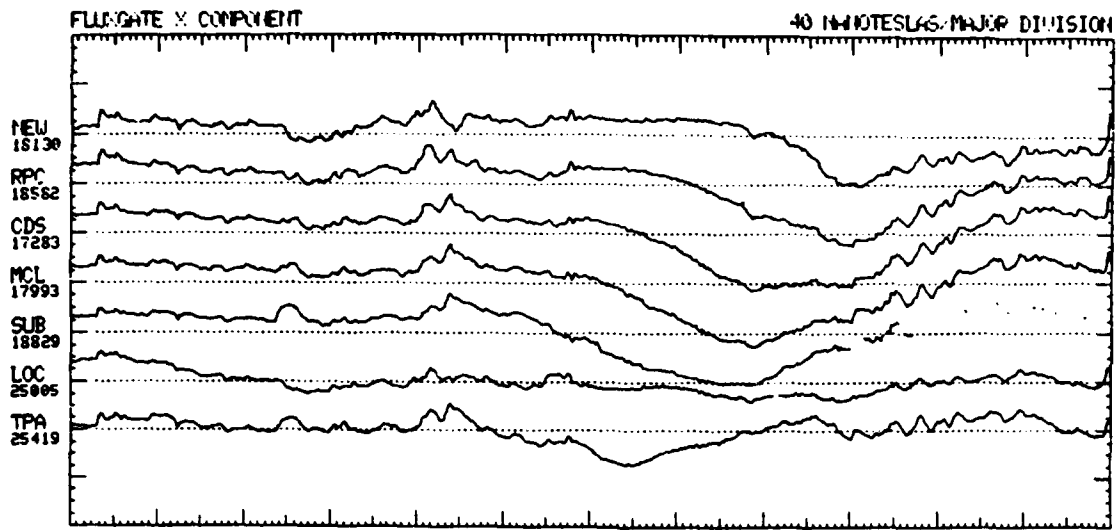
FLIGHTGATE D COMPONENT

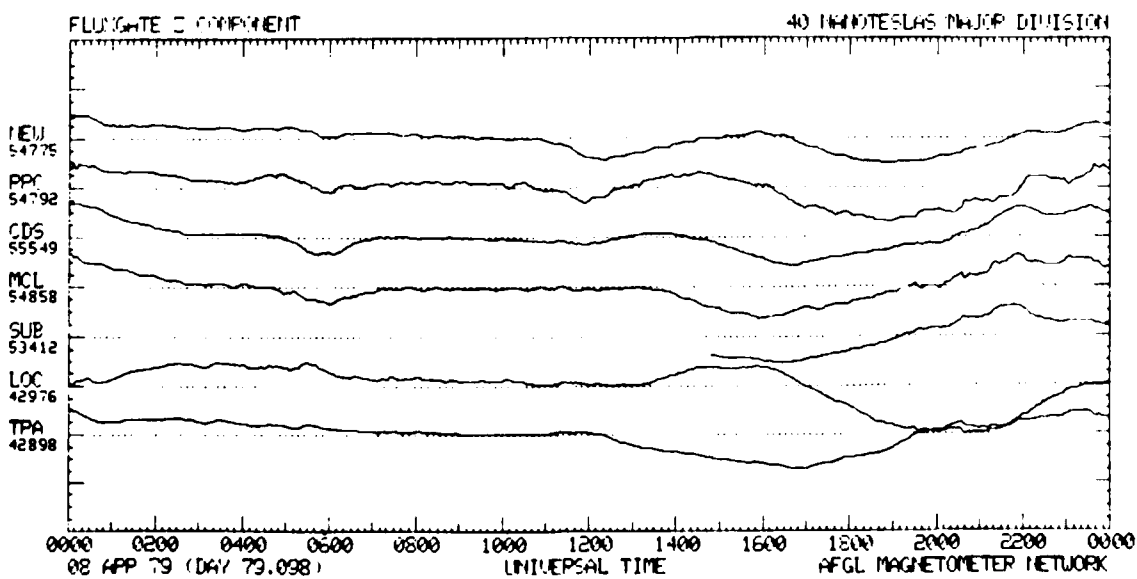
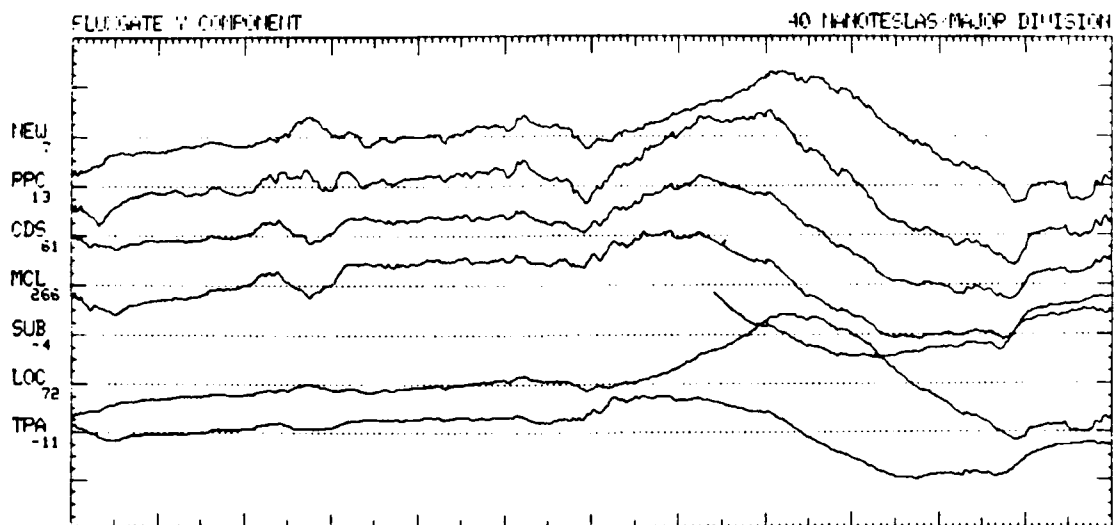
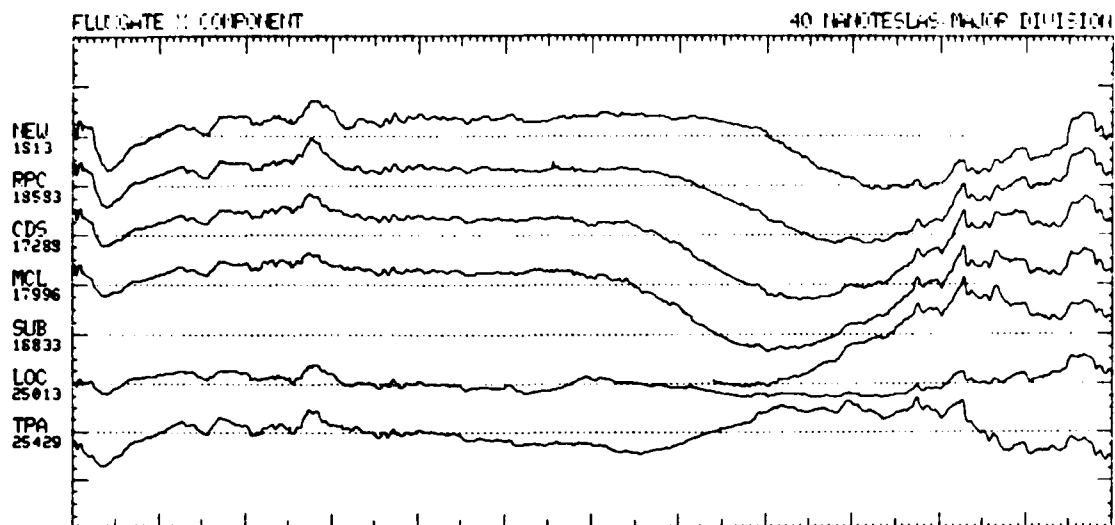
40 INKOTESLAS MAJOR DIVISION

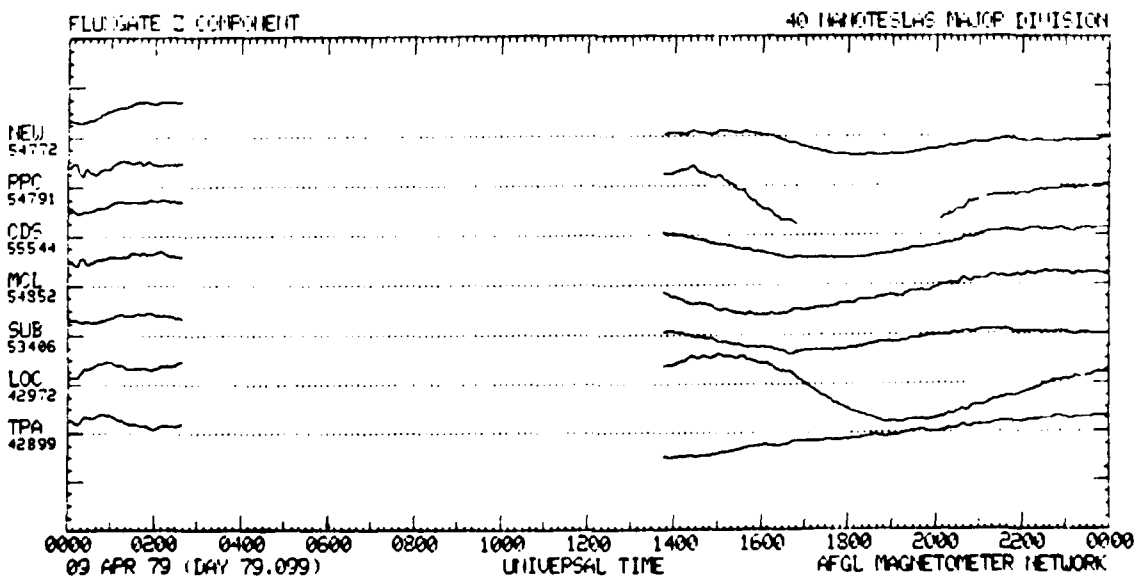
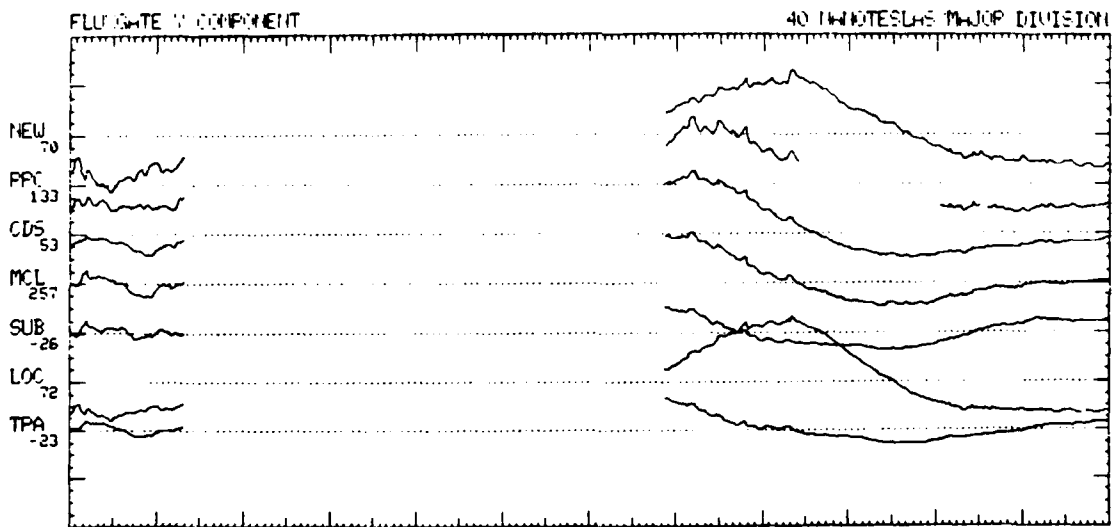
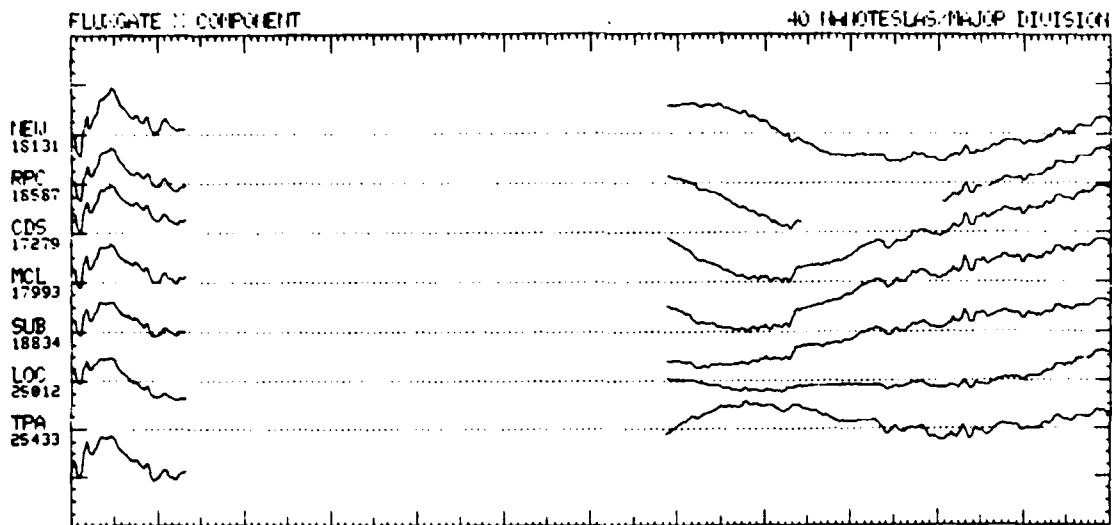


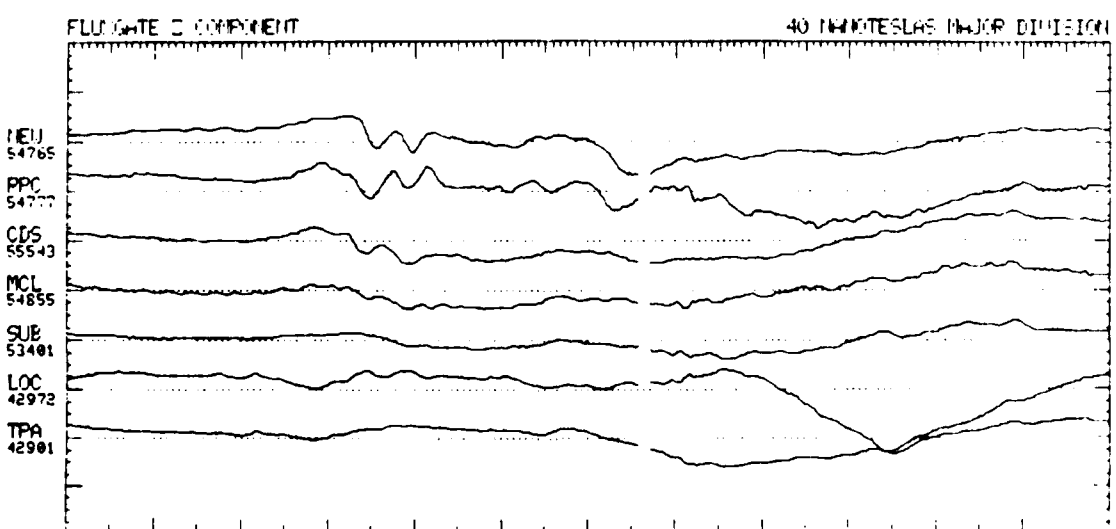
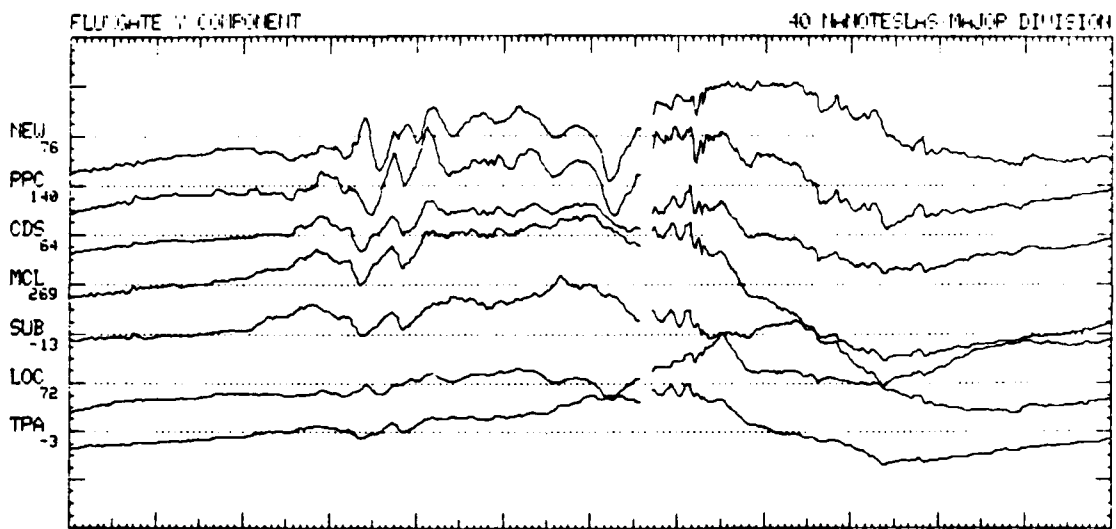
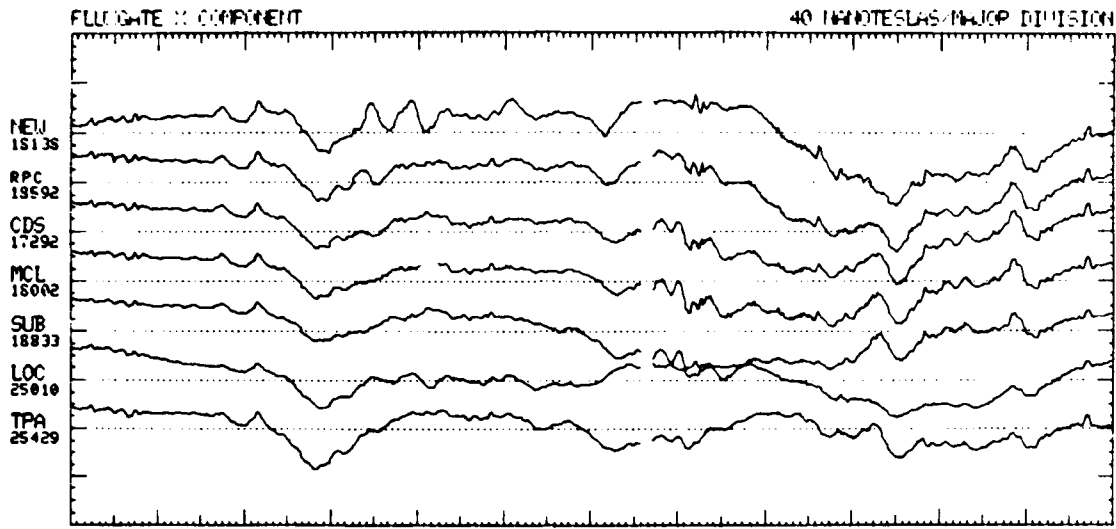
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 APR 79 (DAY 79.095) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



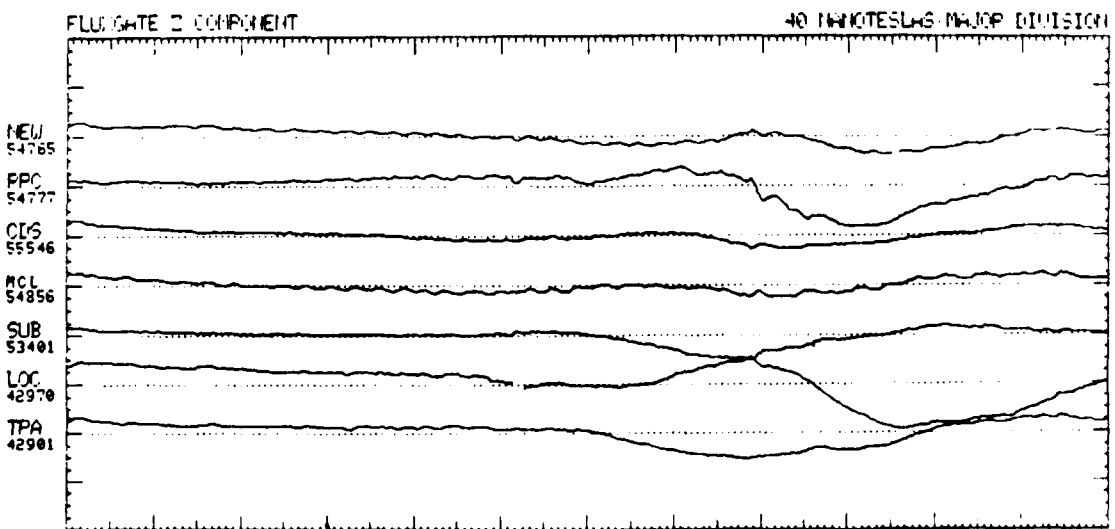
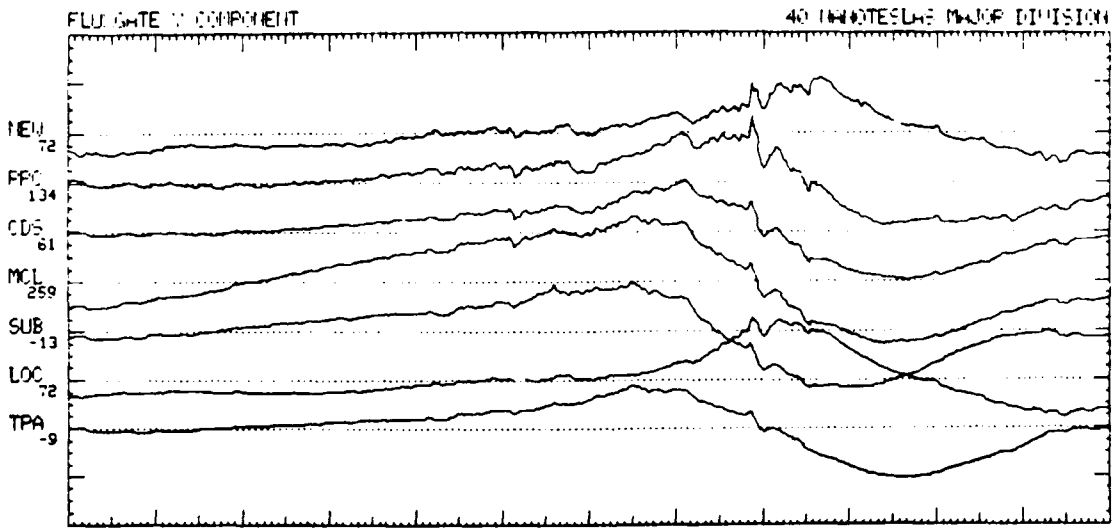
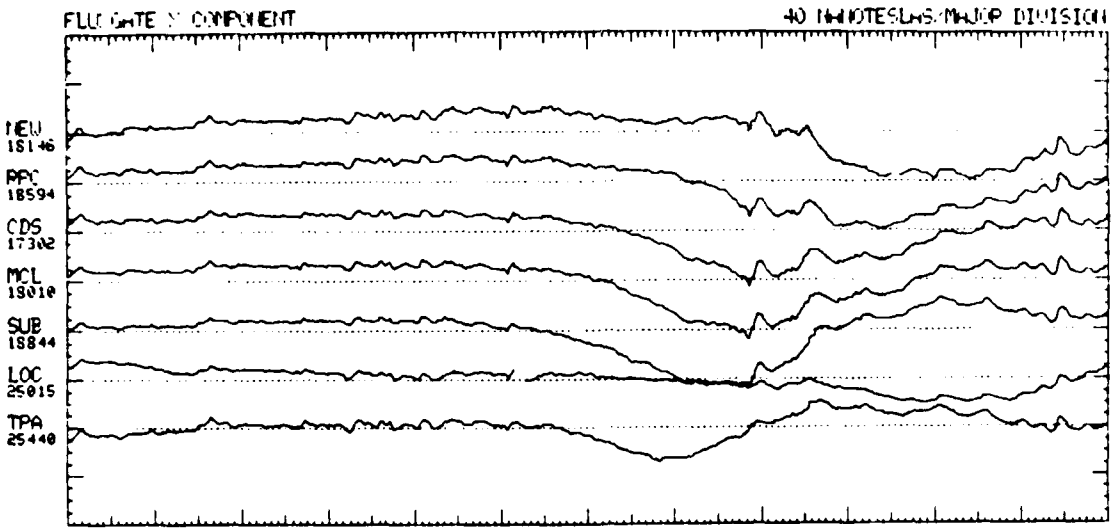




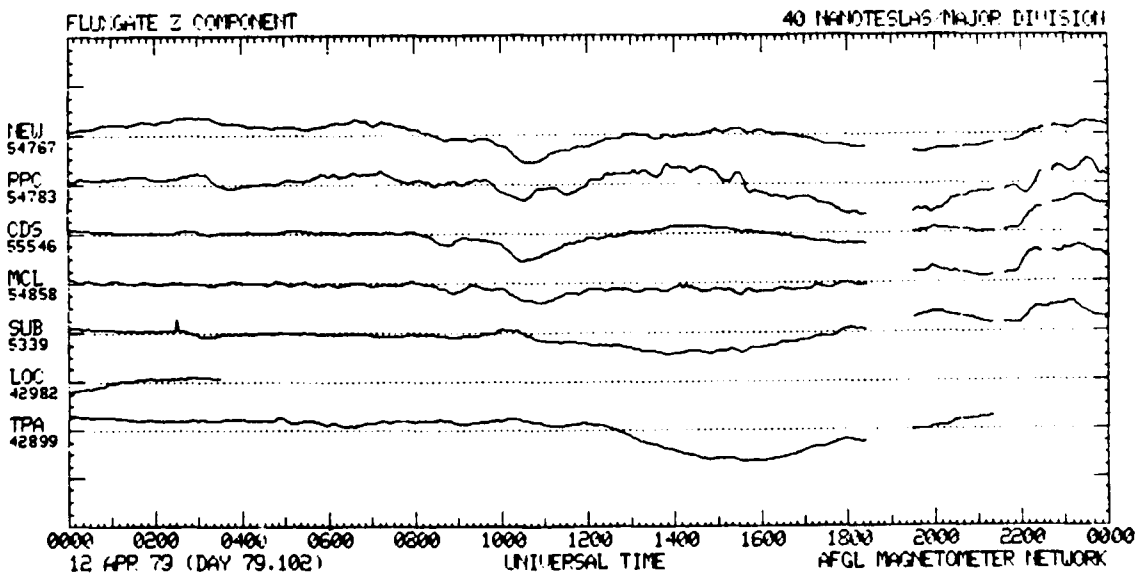
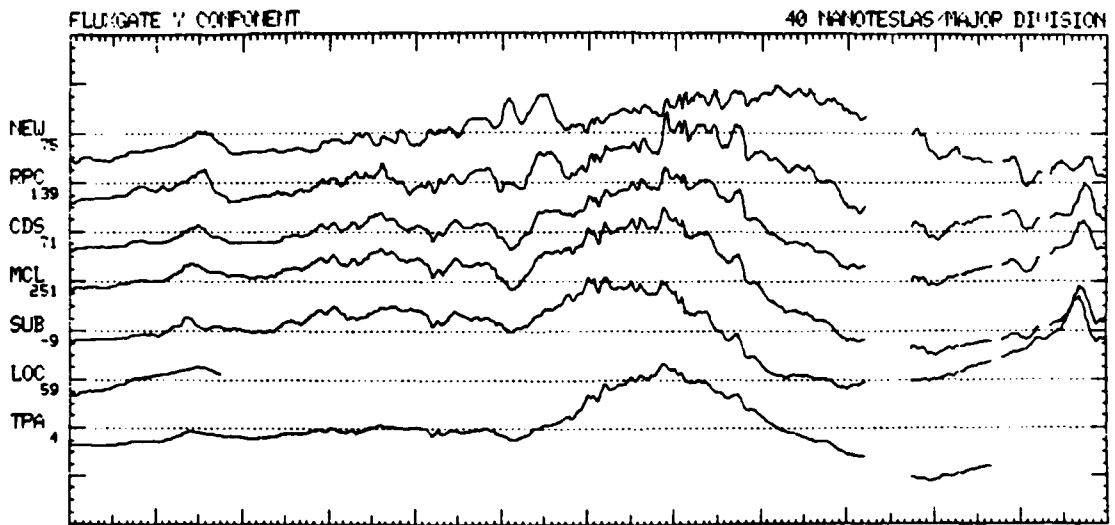
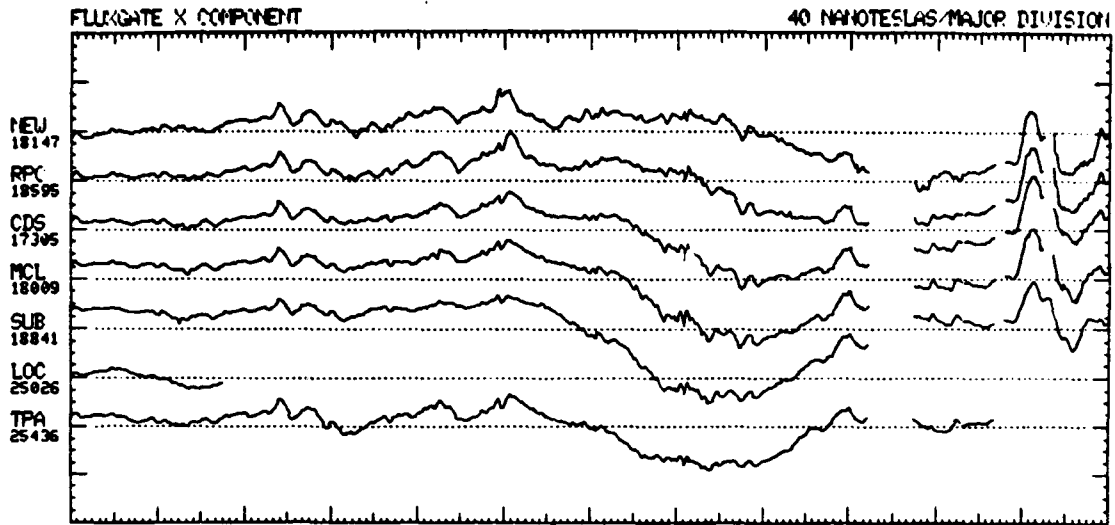


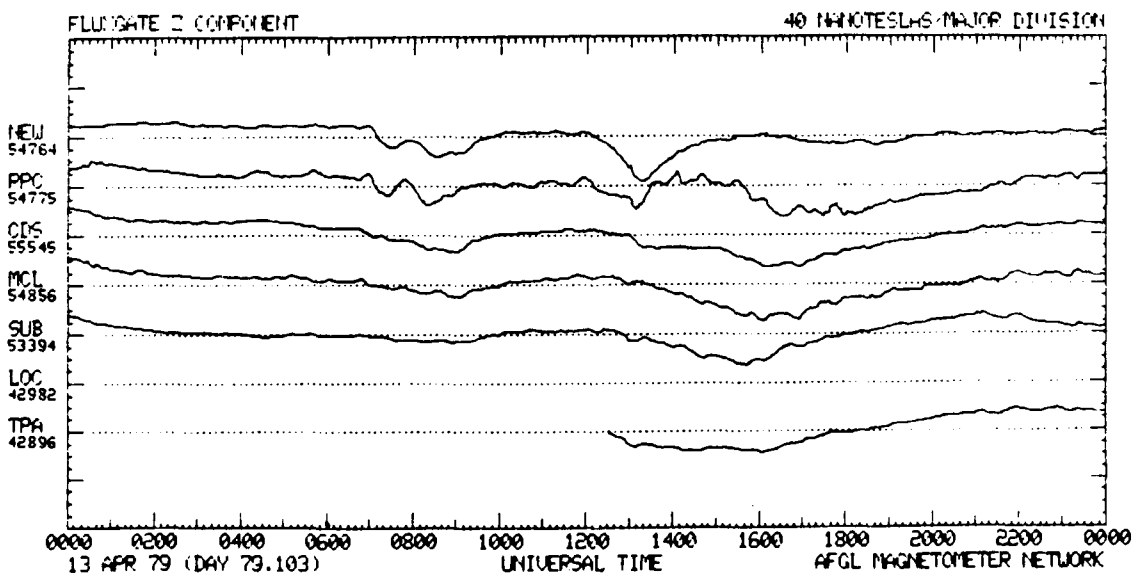
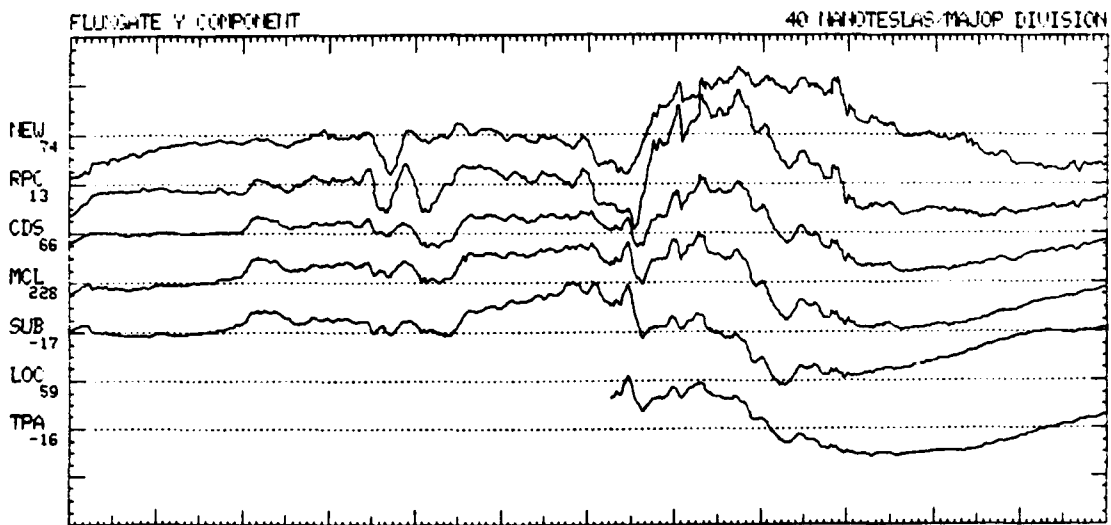
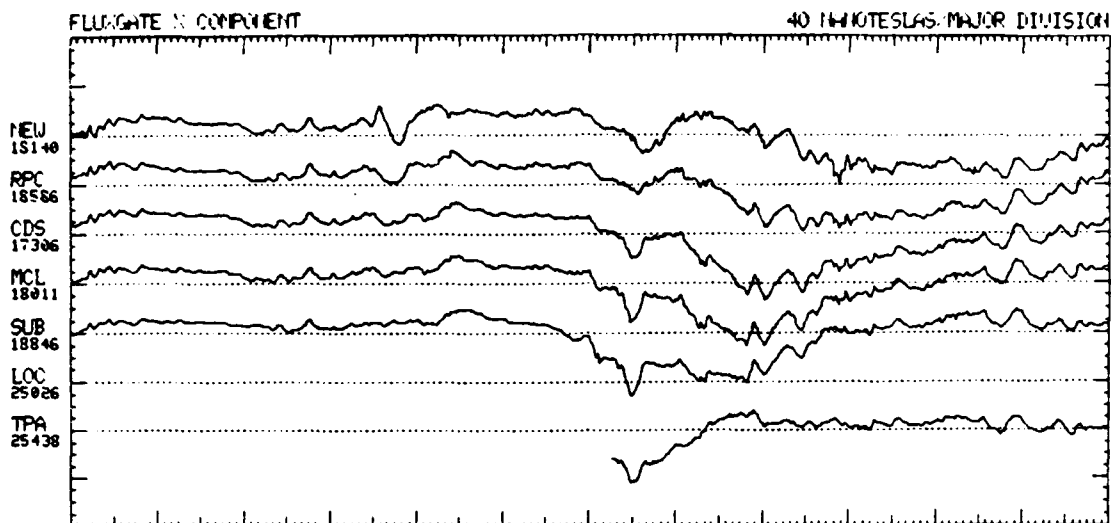


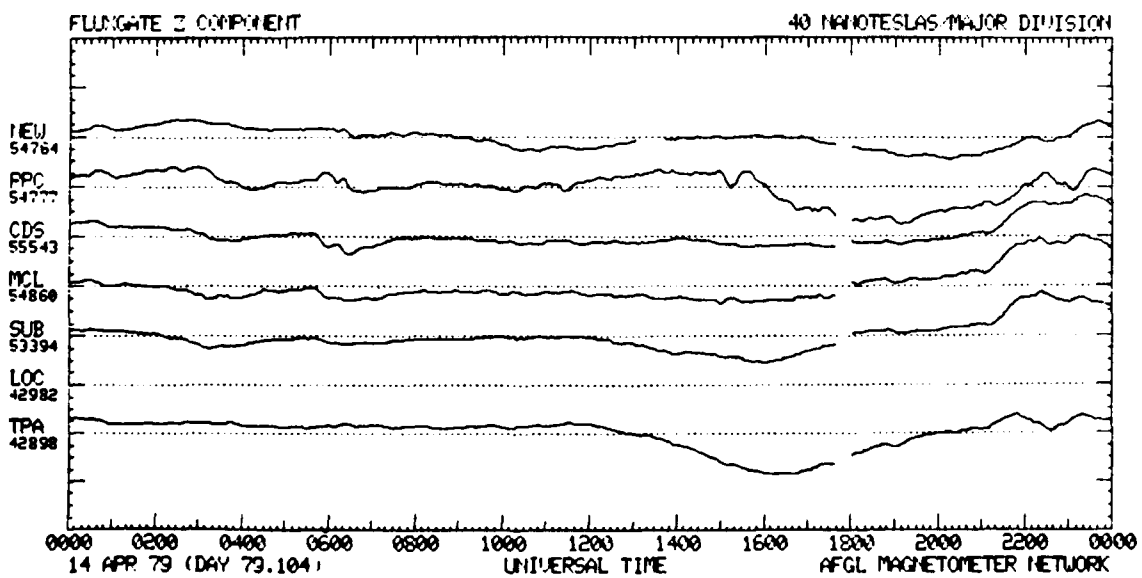
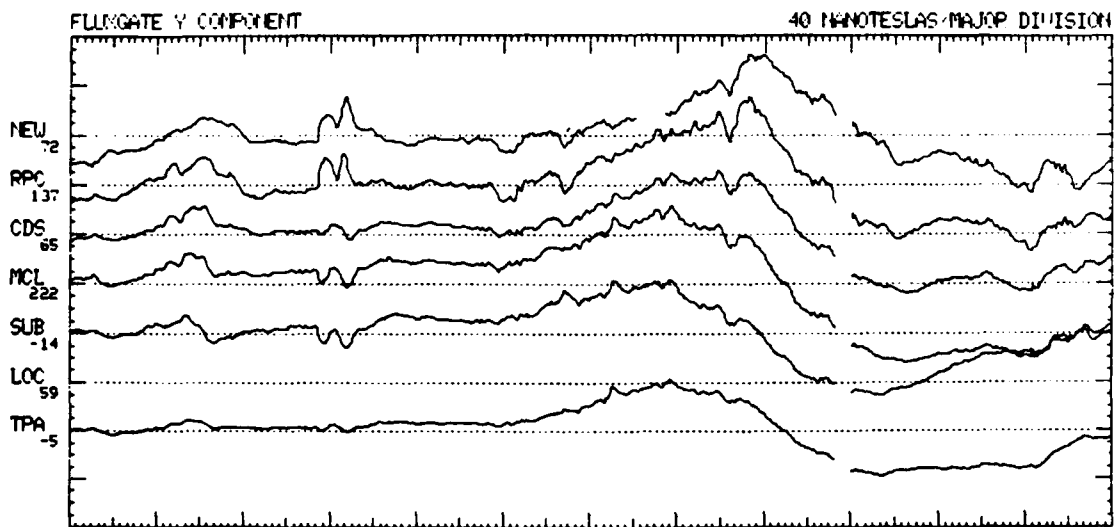
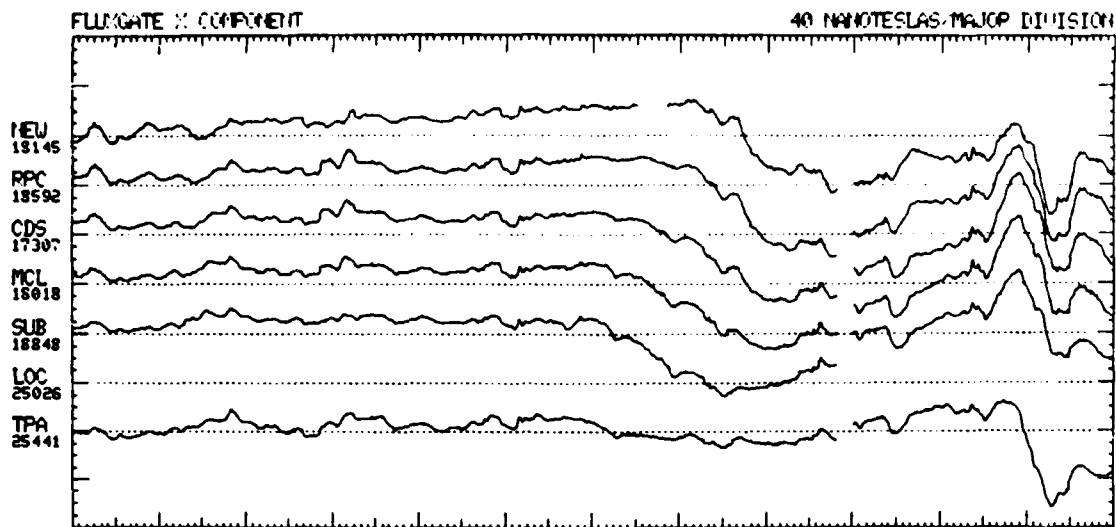
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 10 APR 79 (DAY 79.100) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

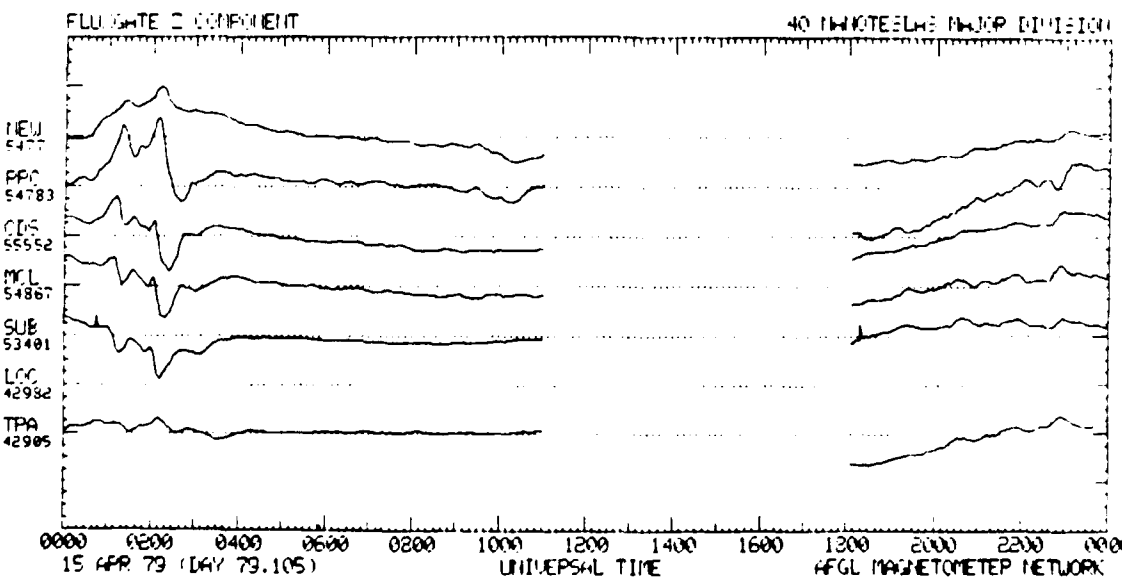
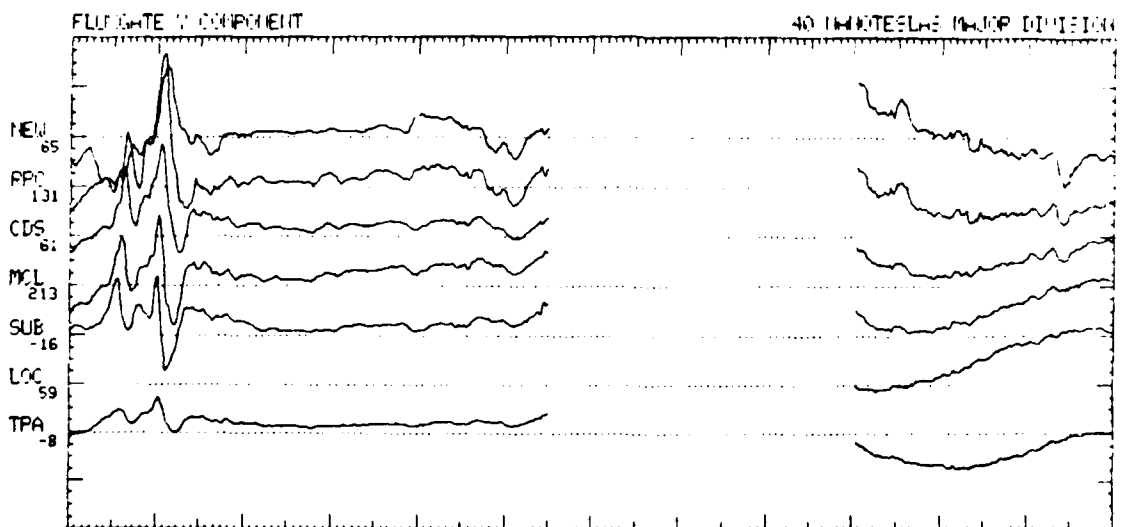
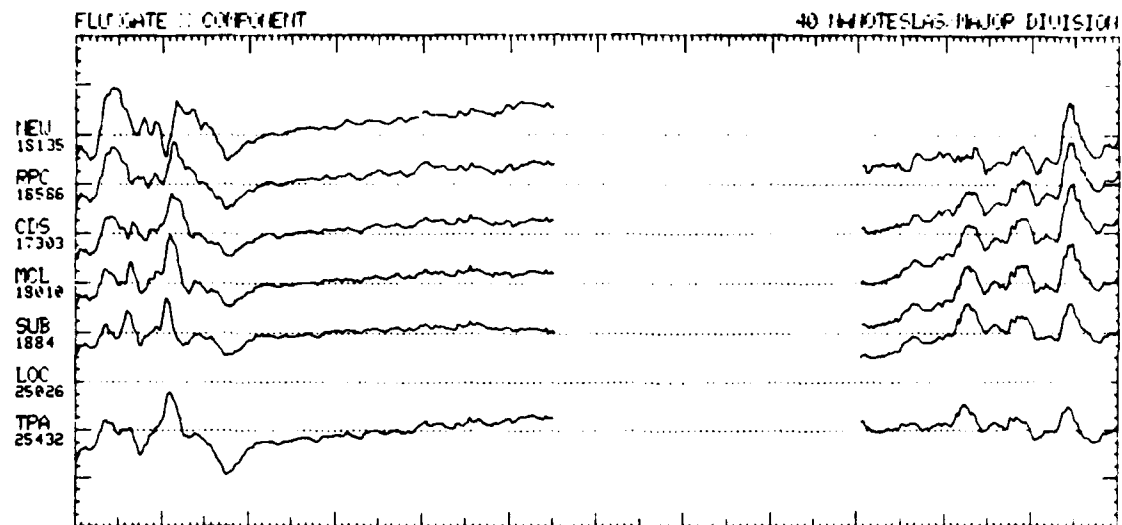


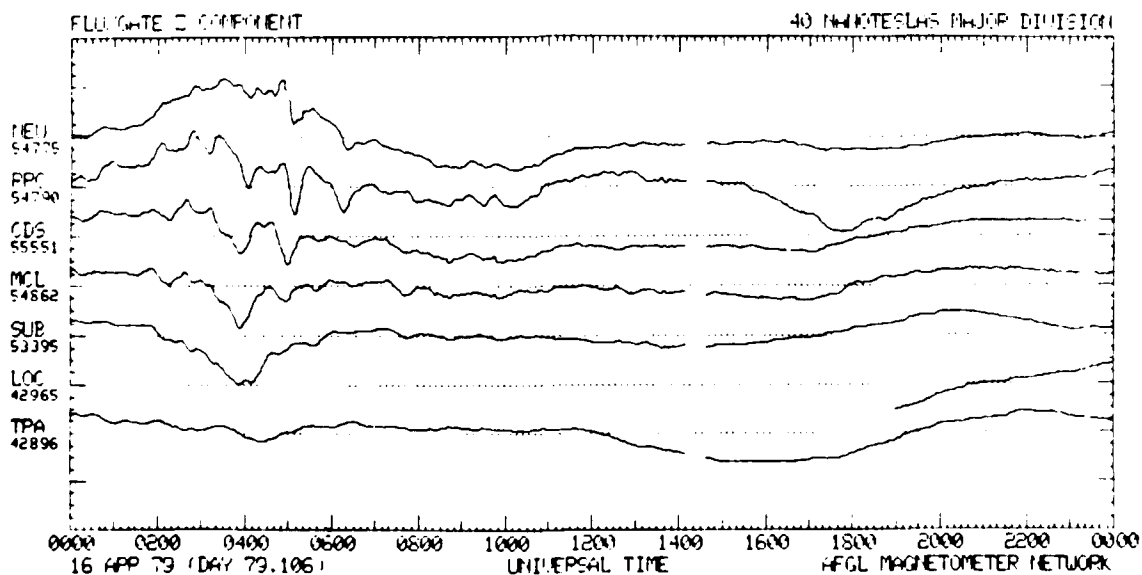
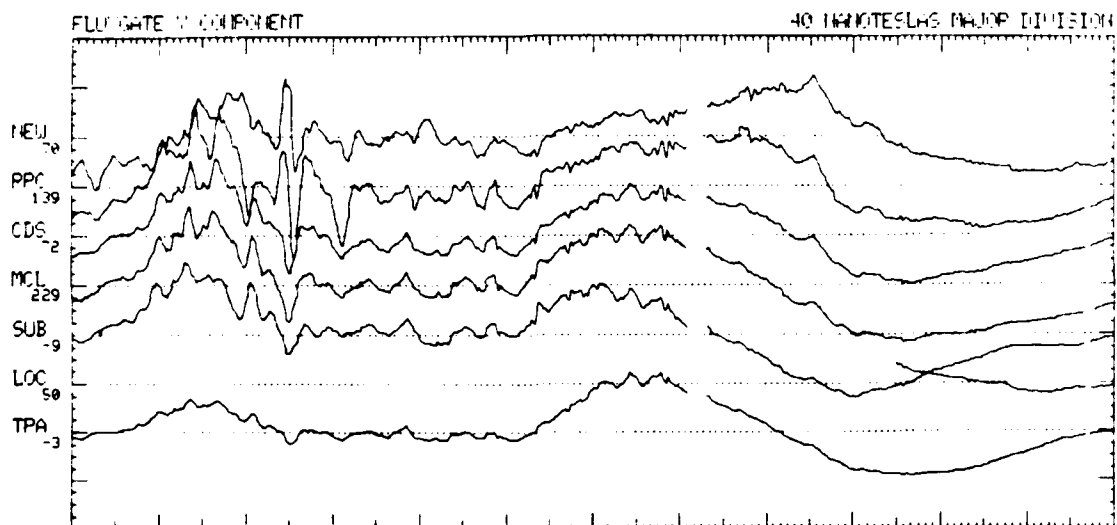
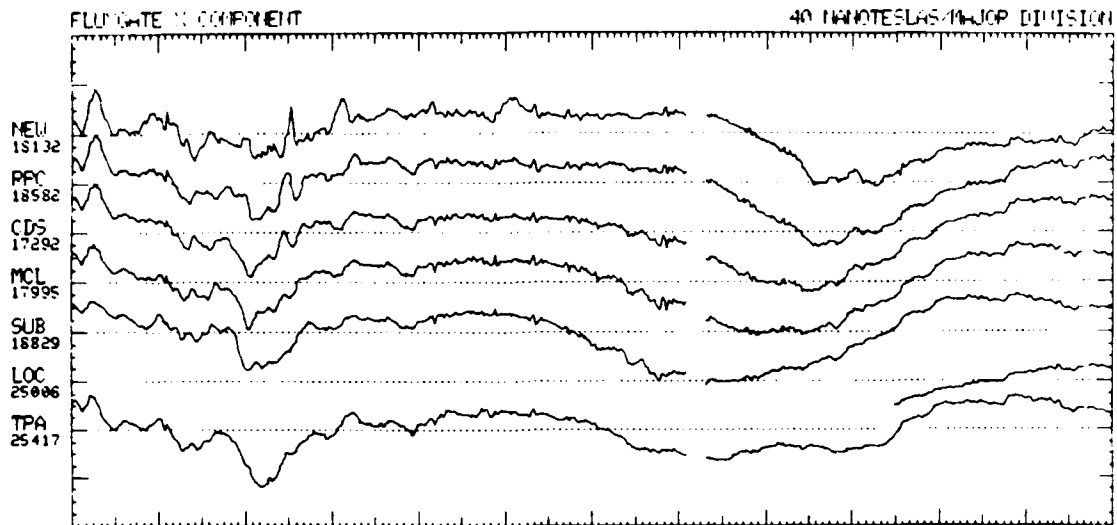
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 11 APR 79 (DAY 79.101) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





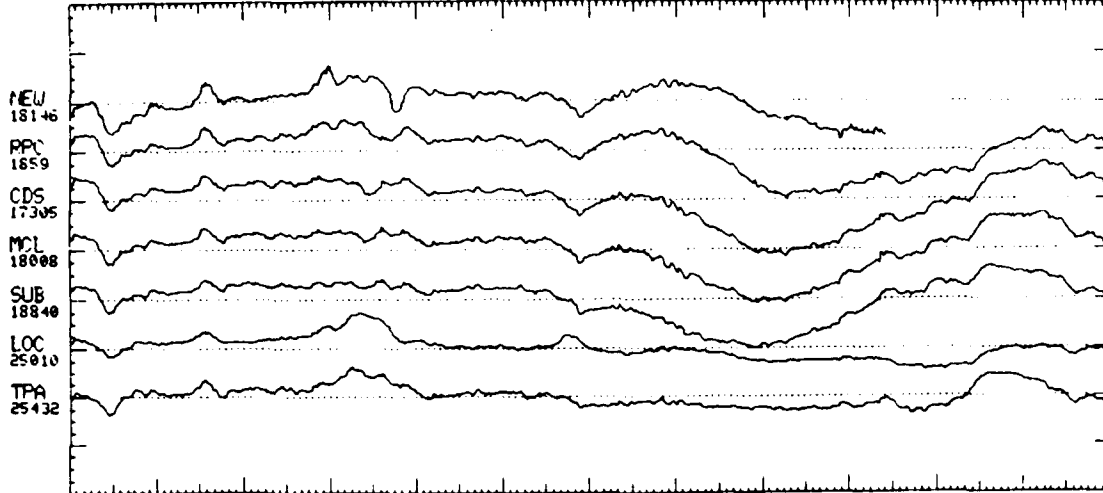






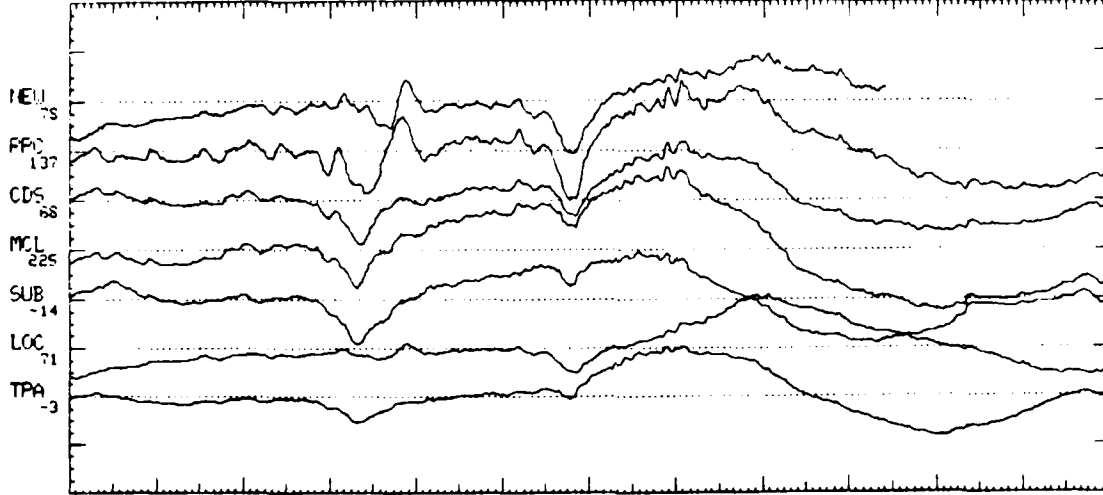
FLIGHTLINE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION



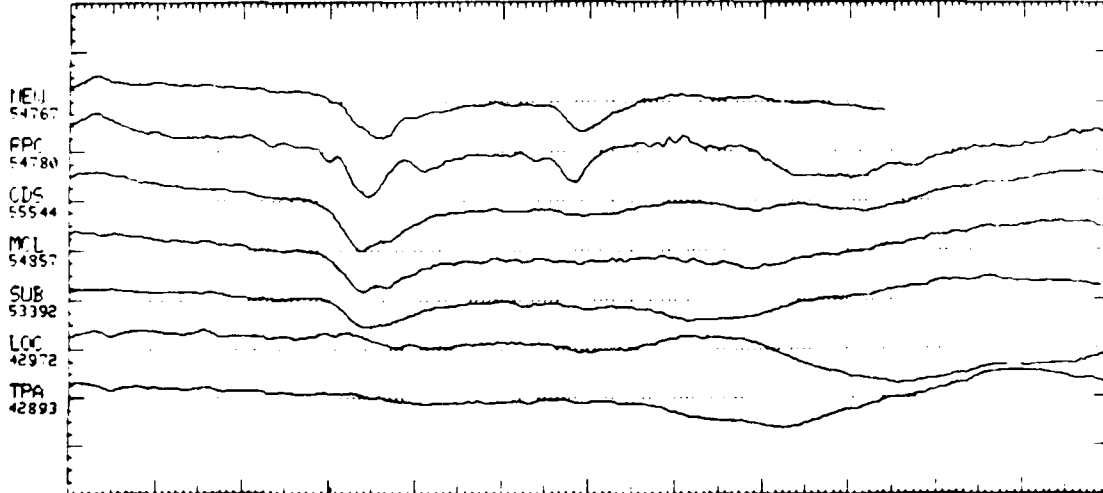
FLIGHTLINE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION



FLIGHTLINE Z COMPONENT

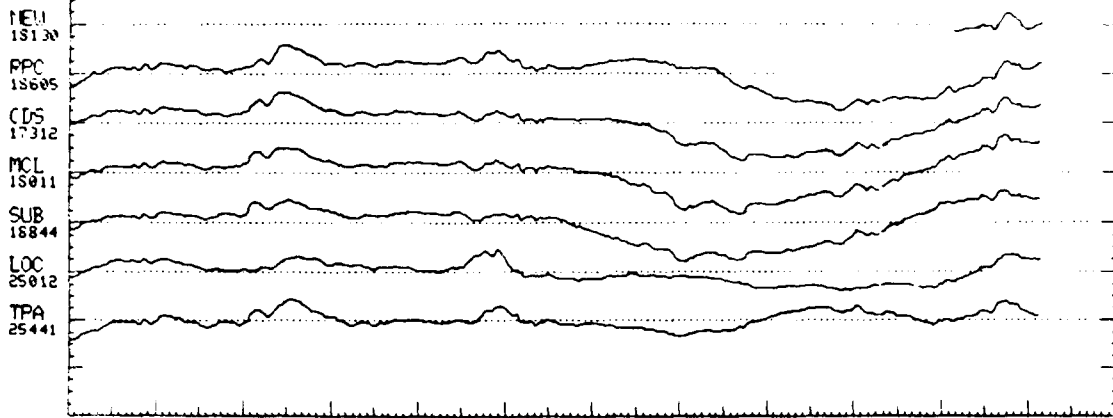
40 NANOTESLAH MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 17 APR 79 (14Y 79.107) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

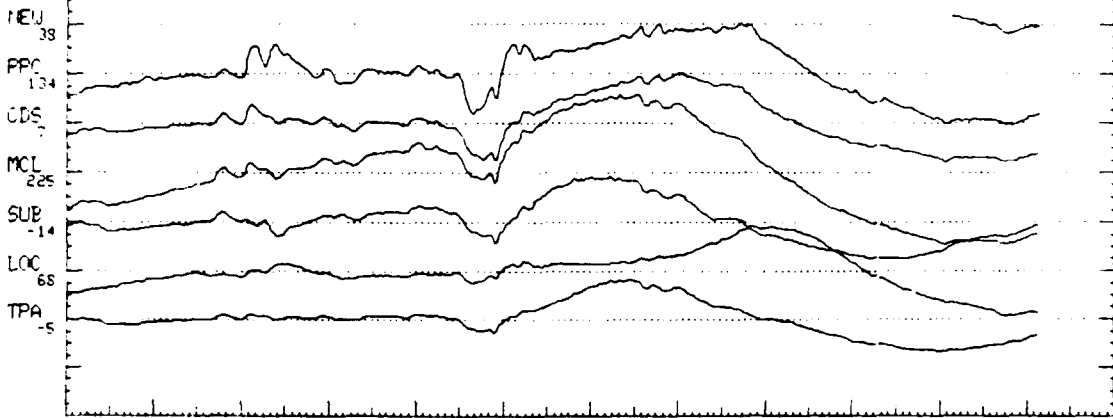
FLIGHTLINE X COMPONENT

40 GAMMATELHAS MAGNET DIVISION



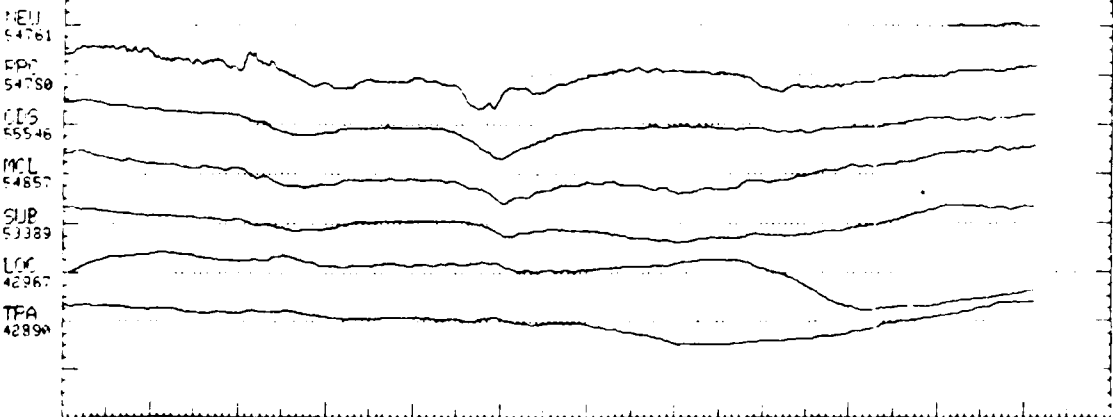
FLIGHTLINE Y COMPONENT

40 GAMMATELHAS MAGNET DIVISION



FLIGHTLINE Z COMPONENT

40 GAMMATELHAS MAGNET DIVISION

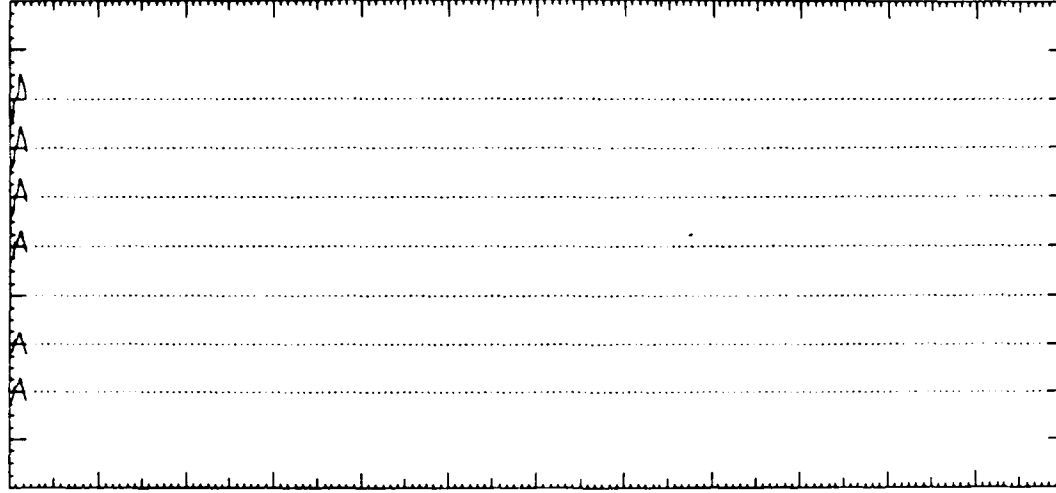


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 APR 79 (DAY 79.108) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

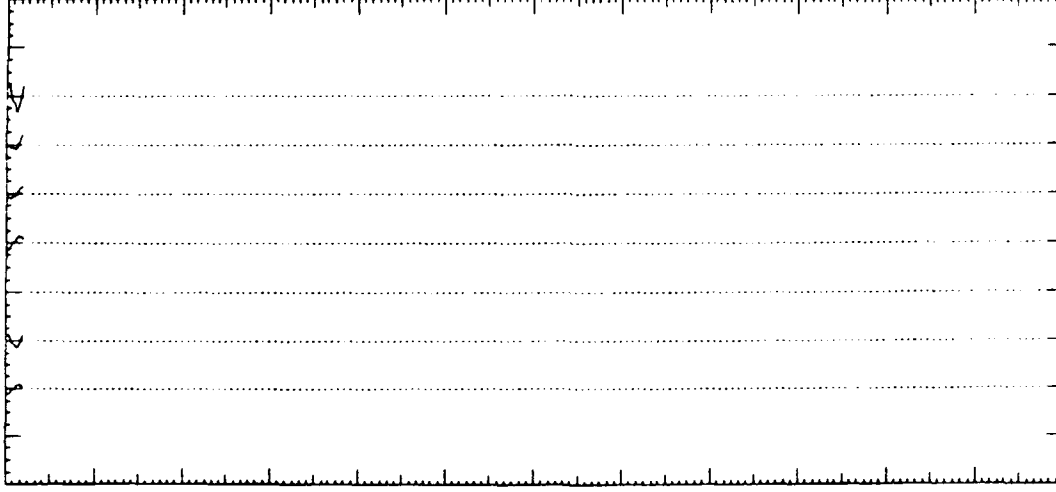
NEW
18226
RPC
18666
CDS
17217
MCL
18986
SUB
18695
LOC
25032
TPA
25444



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

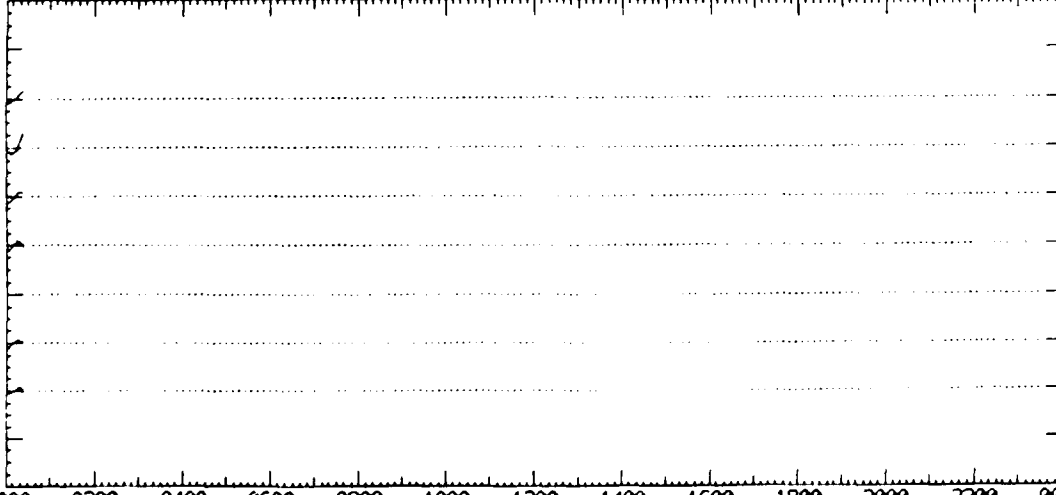
NEW
23
RPC
-48
CDS
22
MCL
4
SUB
139
LOC
-12
TPA
-50



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54517
RPC
54630
CDS
55420
MCL
54689
SUB
53021
LOC
42899
TPA
42741

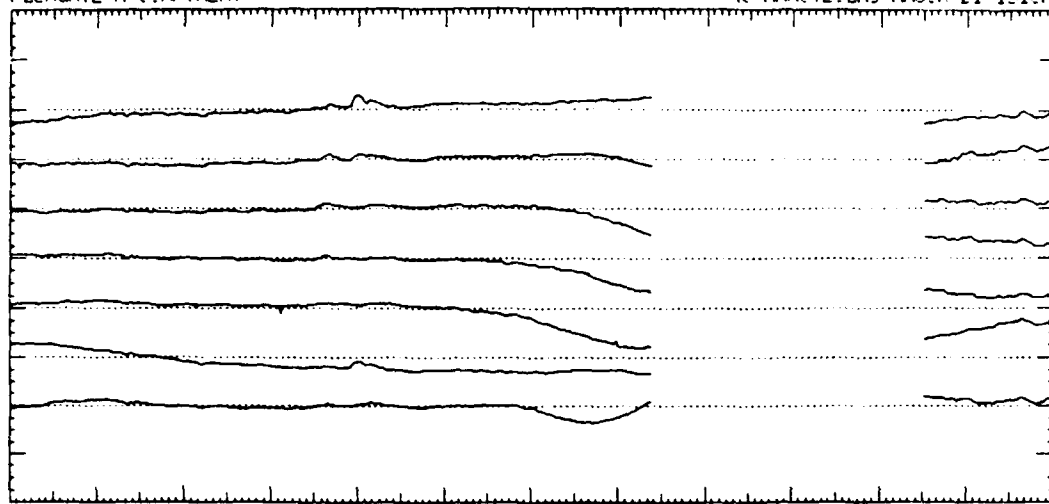


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 APR 81 (DAY 81.109) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUNGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

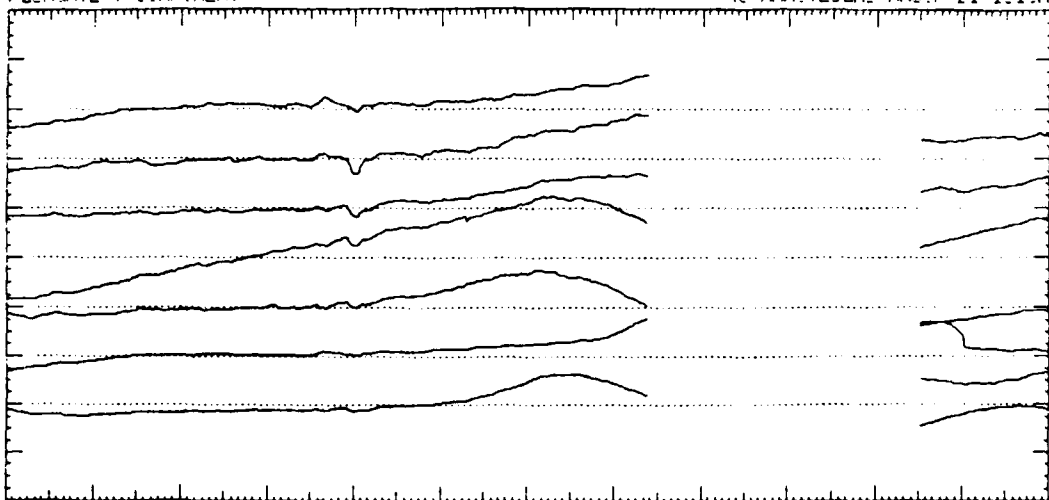
NEW
18156
RPC
18610
CDS
17325
MCL
18021
SUB
18853
LOC
25022
TPA
25443



FLUNGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

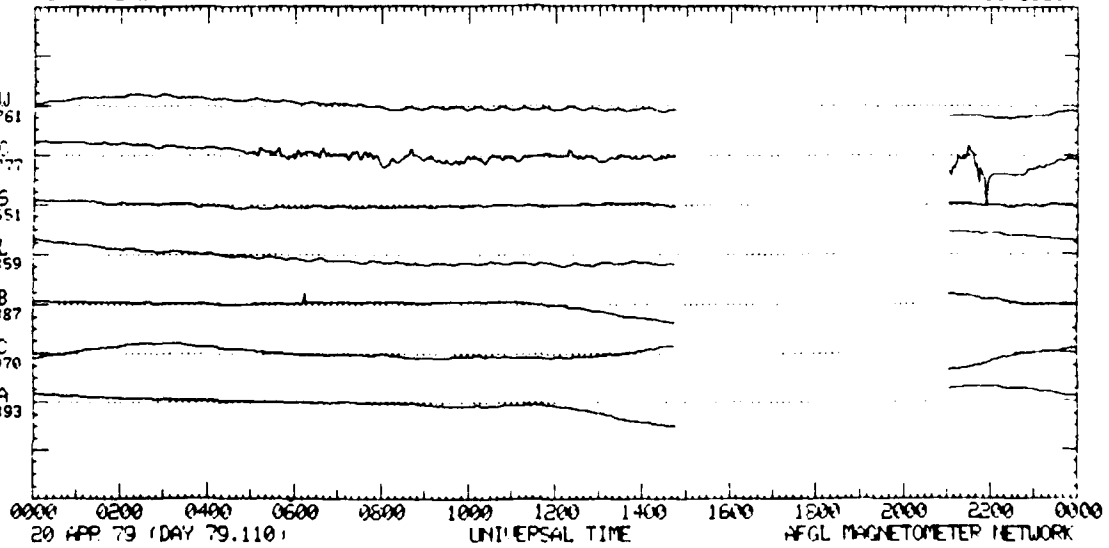
NEW
65
RPC
133
CDS
73
MCL
216
SUB
-11
LOC
63
TPA
3



FLUNGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

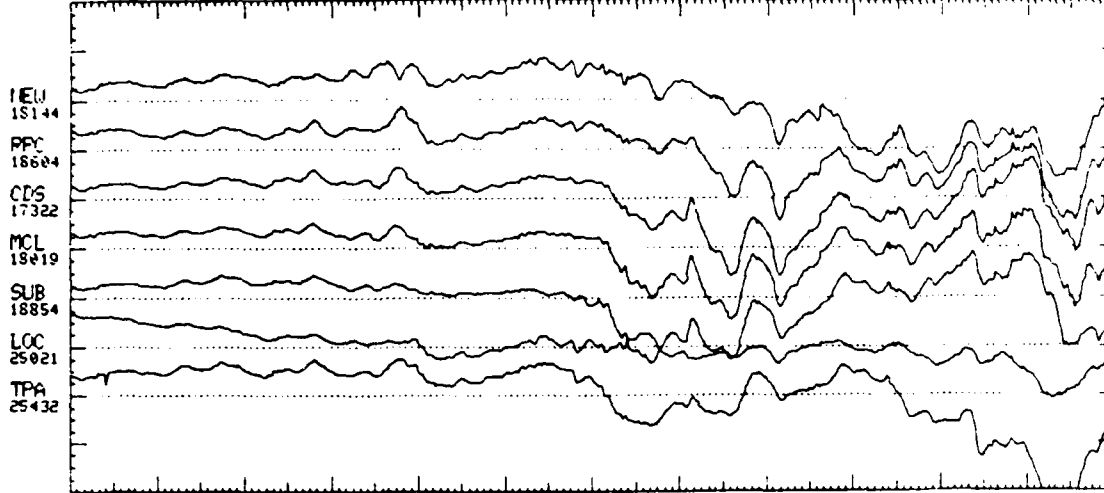
NEW
54761
RPC
54777
CDS
55551
MCL
54859
SUB
53387
LOC
42970
TPA
42893



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 APR 79 (DAY 79.110) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

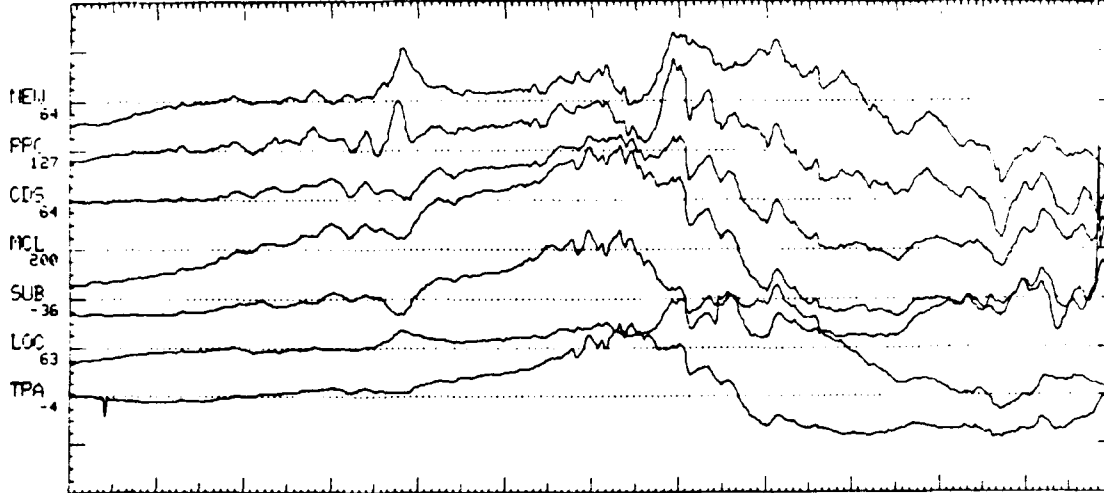
FLIGHTLINE COMPONENT

40 NANOTESLA PER MAJOR DIVISION



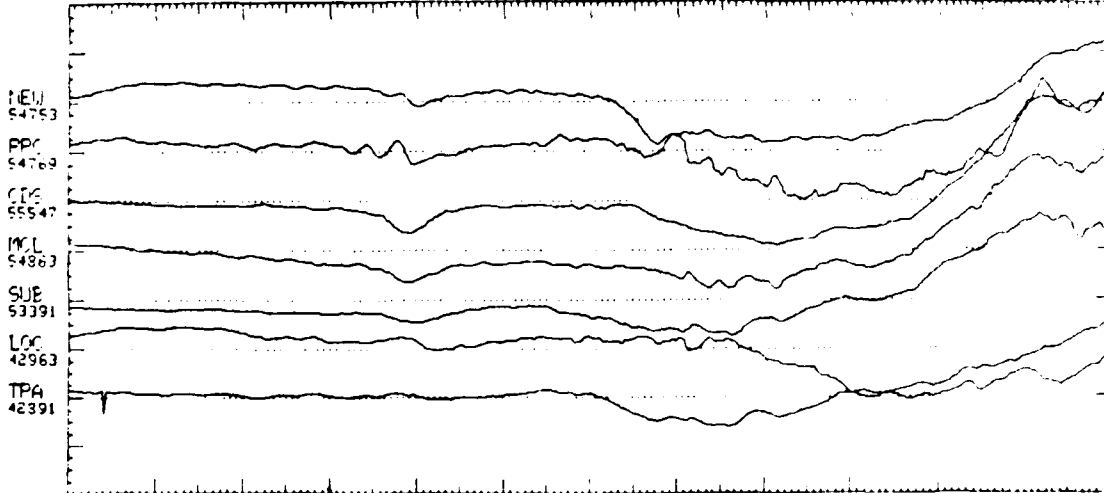
FLIGHTLINE COMPONENT

40 NANOTESLA PER MAJOR DIVISION

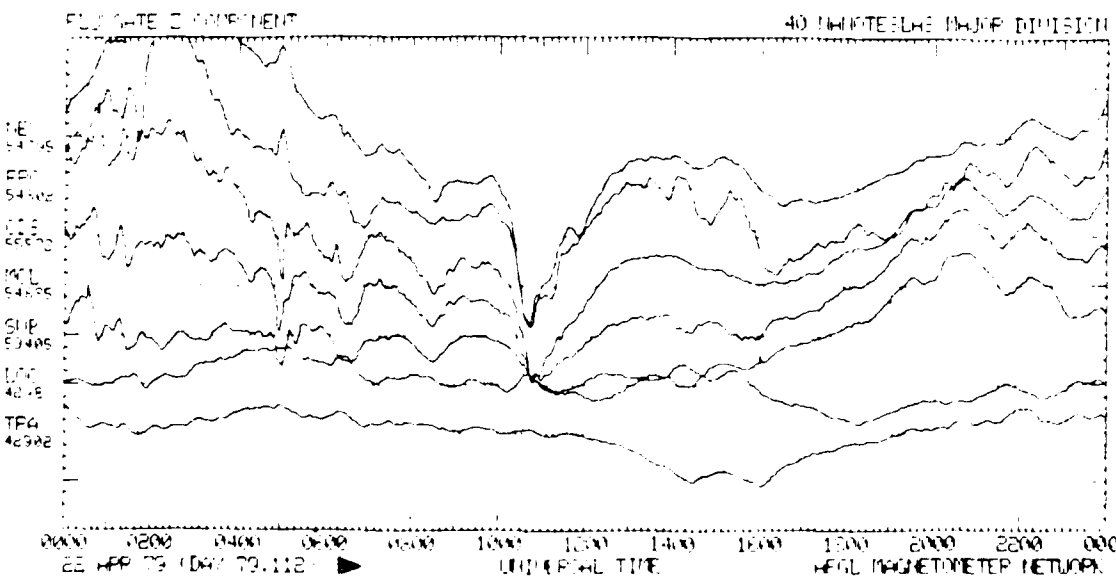
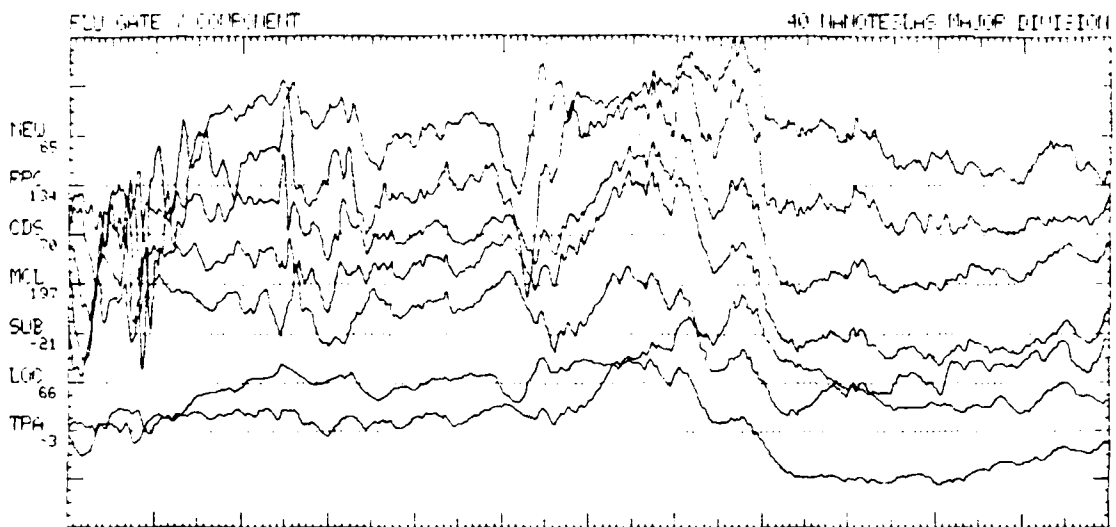
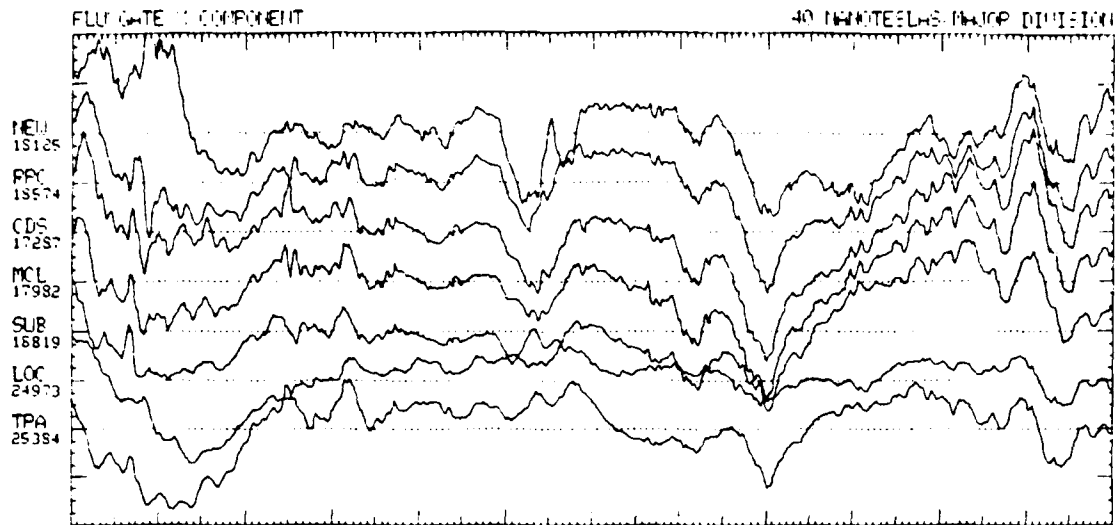


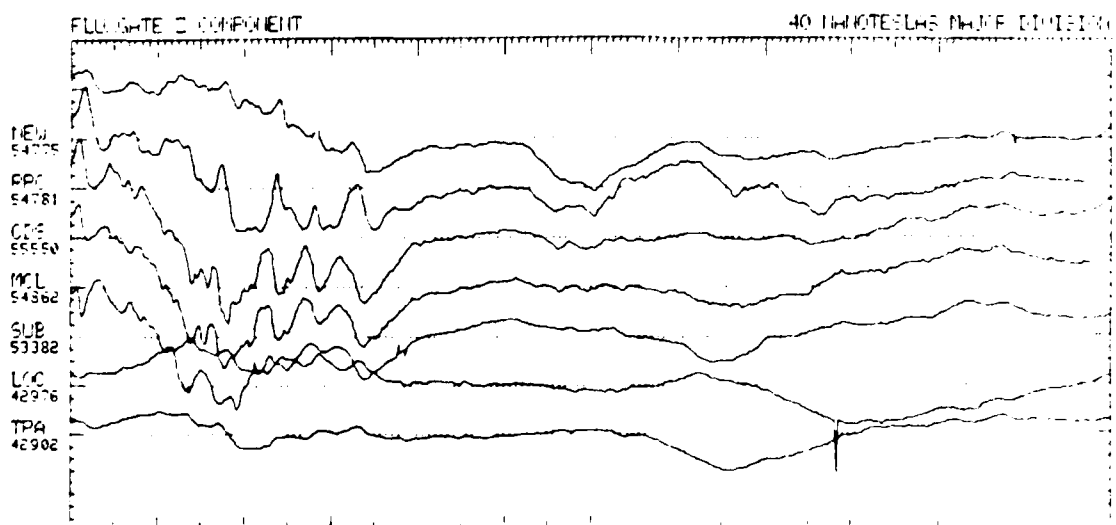
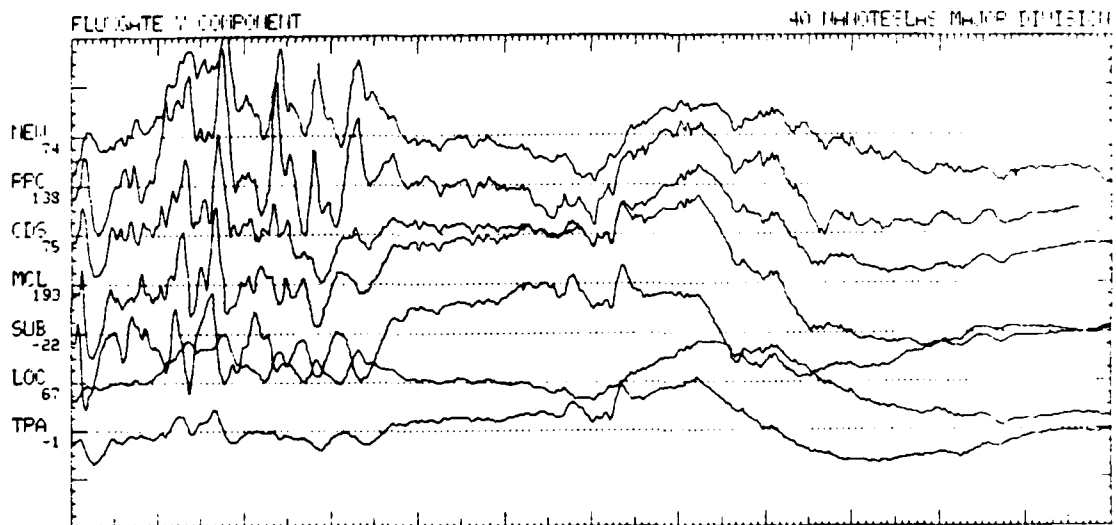
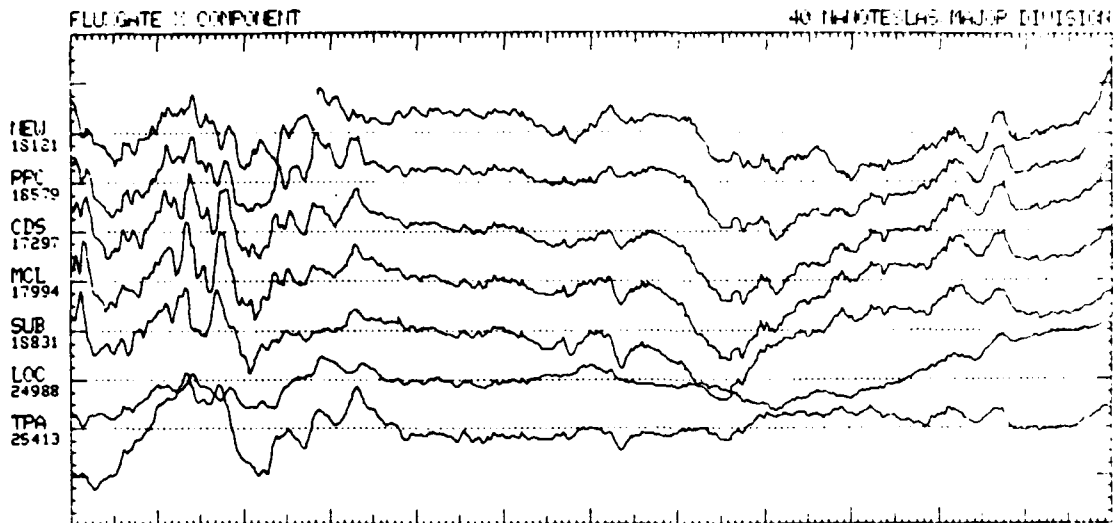
FLIGHTLINE COMPONENT

40 NANOTESLA PER MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 21 APR 79 (DAY 79.111) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

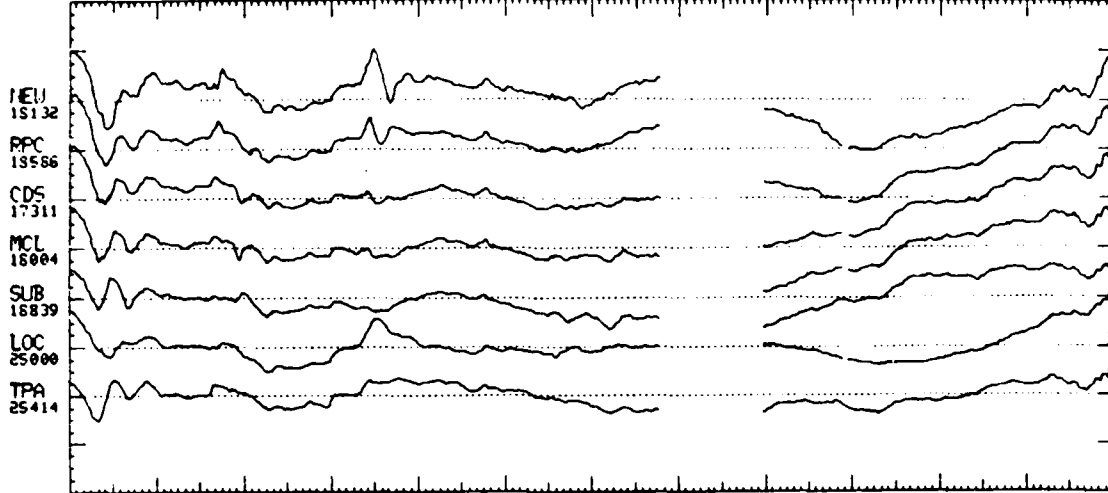




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 23 APR 79 (047 79.113) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

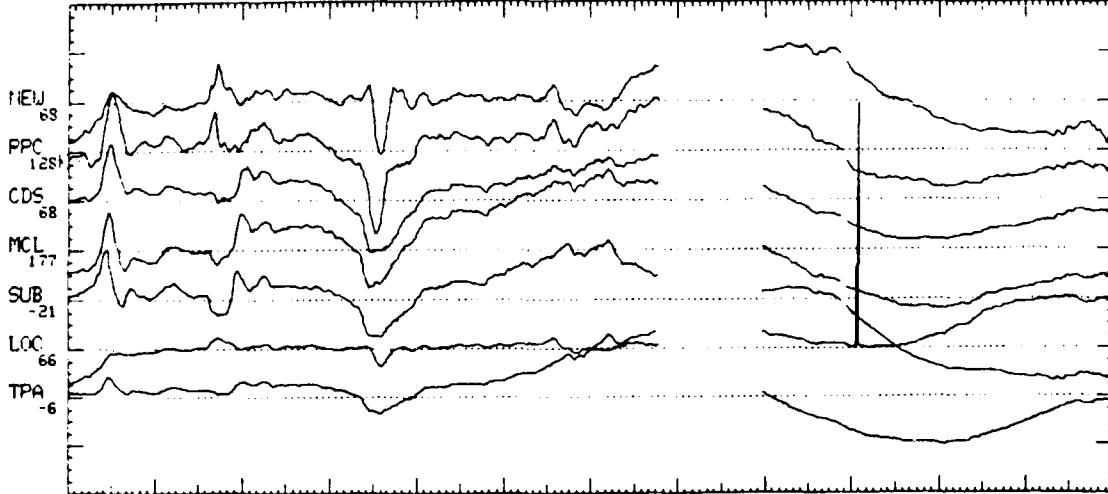
FLIGHTLINE X COMPONENT

40 THOTESLAS MAJOR DIVISION



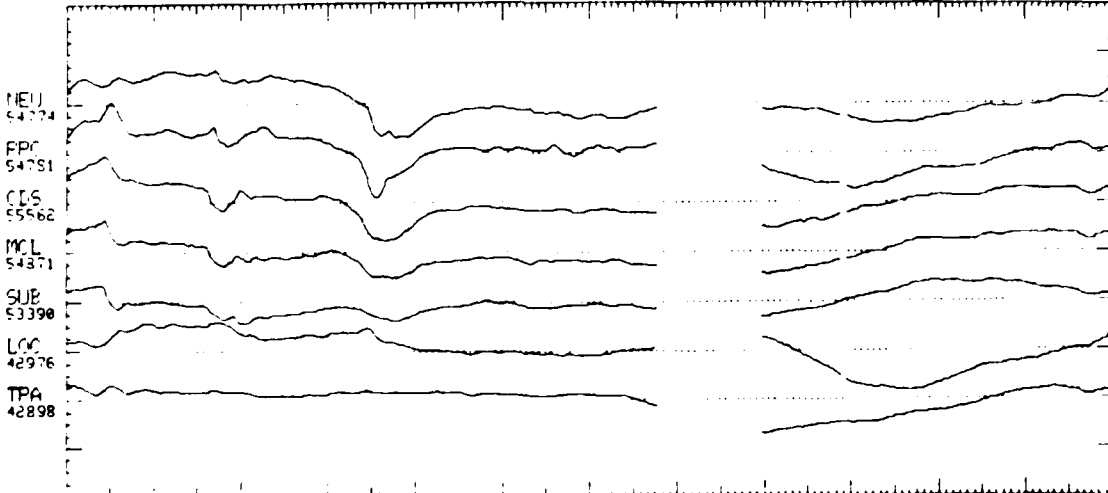
FLIGHTLINE Y COMPONENT

40 THOTESLAS MAJOR DIVISION



FLIGHTLINE Z COMPONENT

40 THOTESLAS MAJOR DIVISION

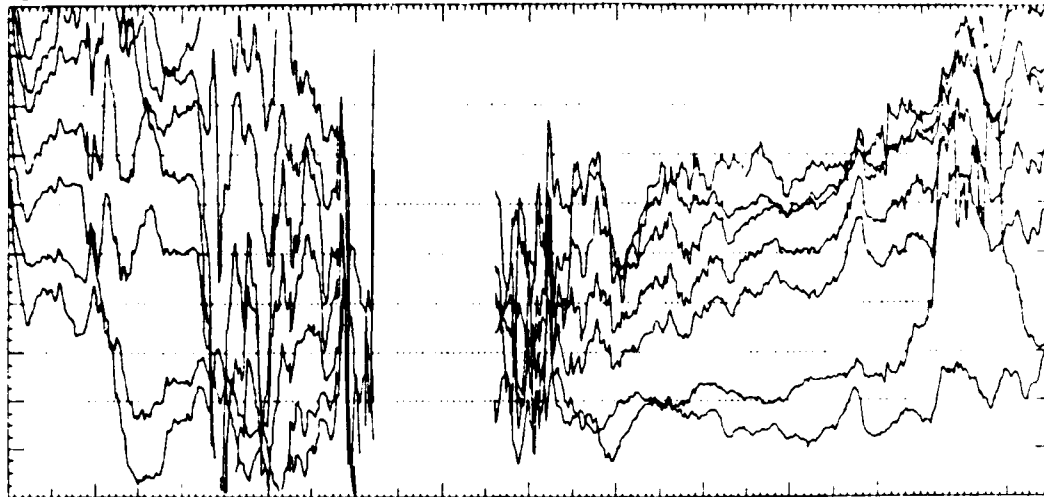


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 24 APR 79 (DAY 79.114) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHT-GATE 1 COMPONENT

40 NANOTESELA RANGE DIVISION

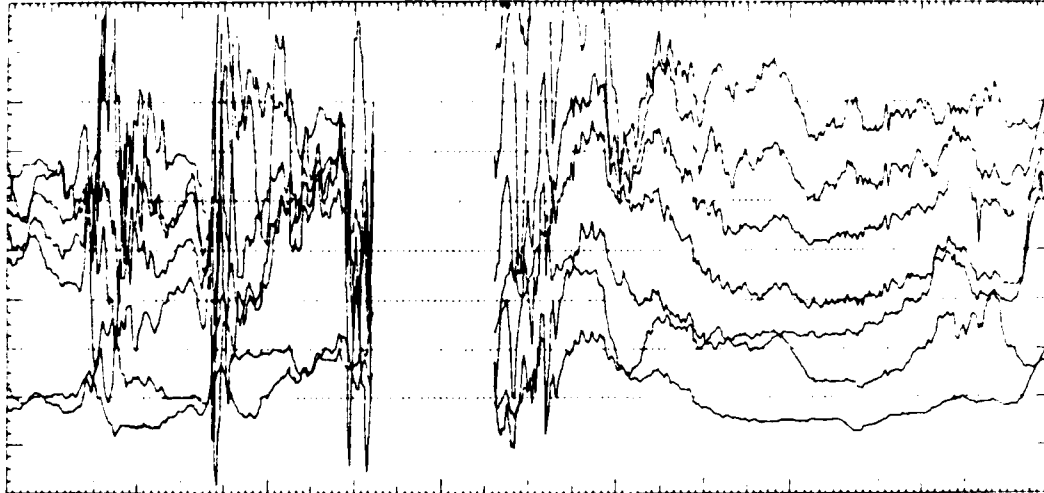
NEW
15106
PPC
18548
CDS
17250
MCL
17949
SUB
18784
LOC
24967
TPA
25360



FLIGHT-GATE 2 COMPONENT

40 NANOTESELA RANGE DIVISION

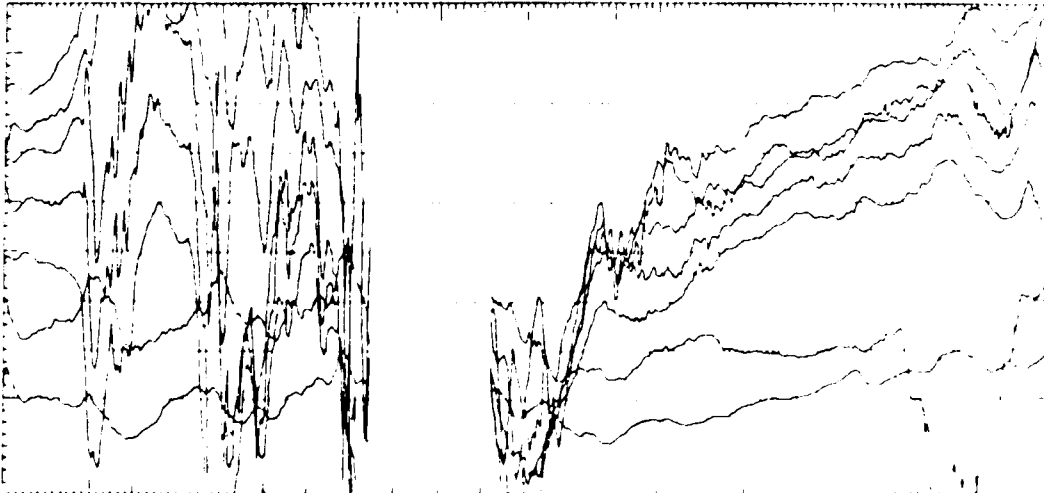
NEW
32
PPC
147
CDS
5
MCL
164
SUB
-32
LOC
30
TPA
1



FLIGHT-GATE 3 COMPONENT

40 NANOTESELA RANGE DIVISION

NEW
54111
PPC
54176
CDS
55543
MCL
54349
SUB
53361
LOC
42971
TPA
42904

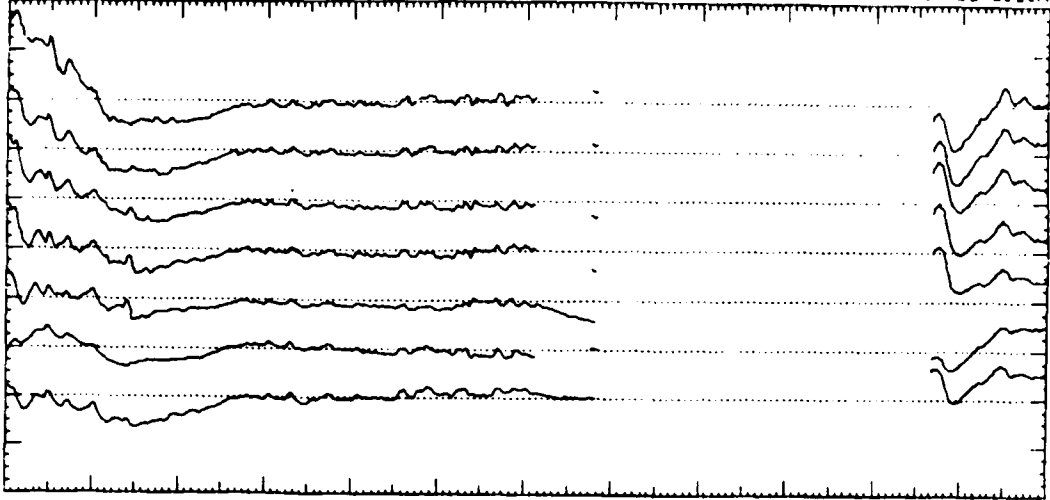


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
25 APR 79 (047 79.115) ▶ UNIVERSAL TIME MAGNETOMETER NETWORK

FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

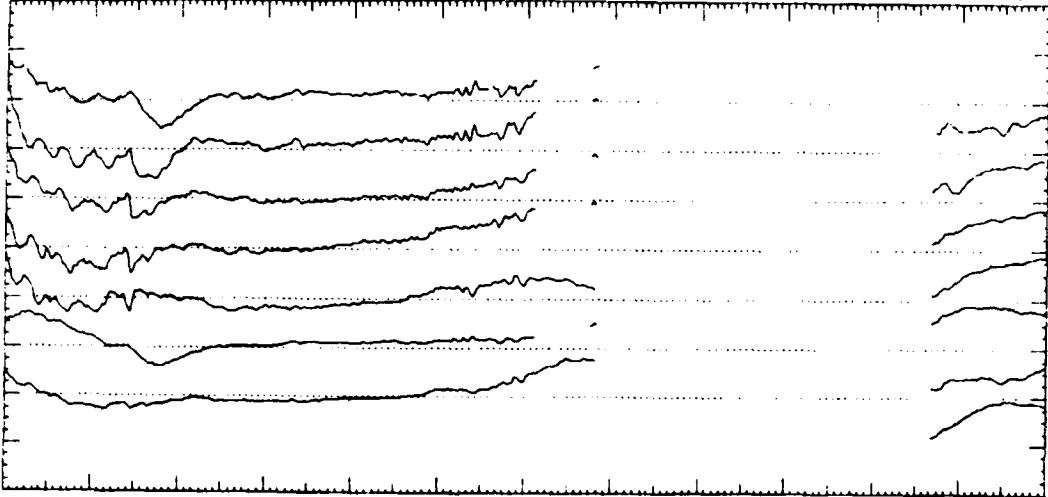
NEU
15126
RPC
18576
CDS
17295
MCL
17998
SUB
18832
LOC
24985
TPA
25394



FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

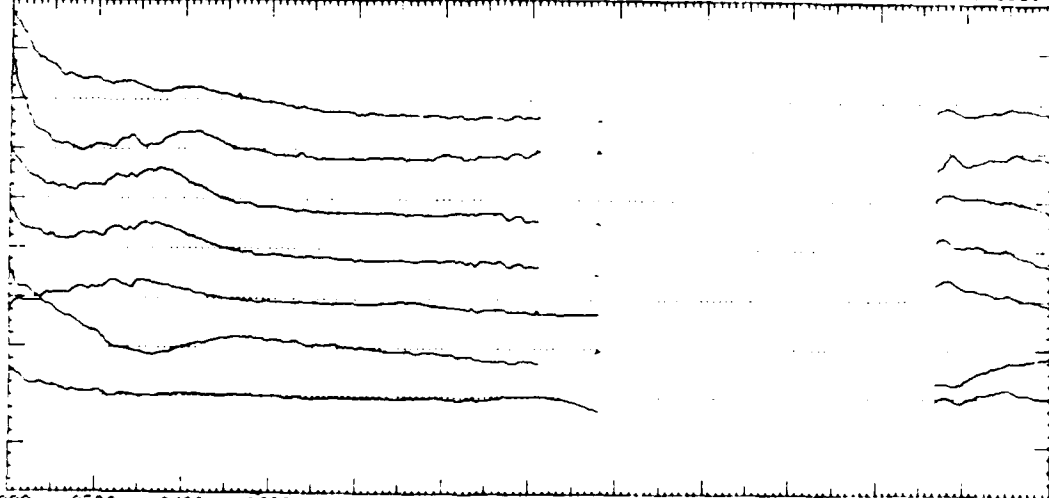
NEU
65
RPC
127
CDS
68
MCL
159
SUB
-20
LOC
63
TPA
-



FLIGHTGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

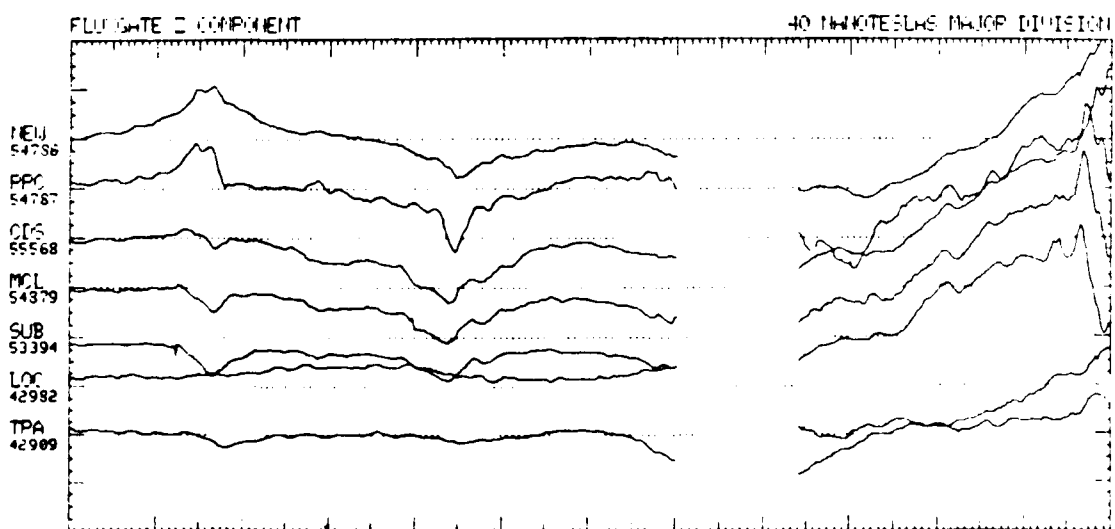
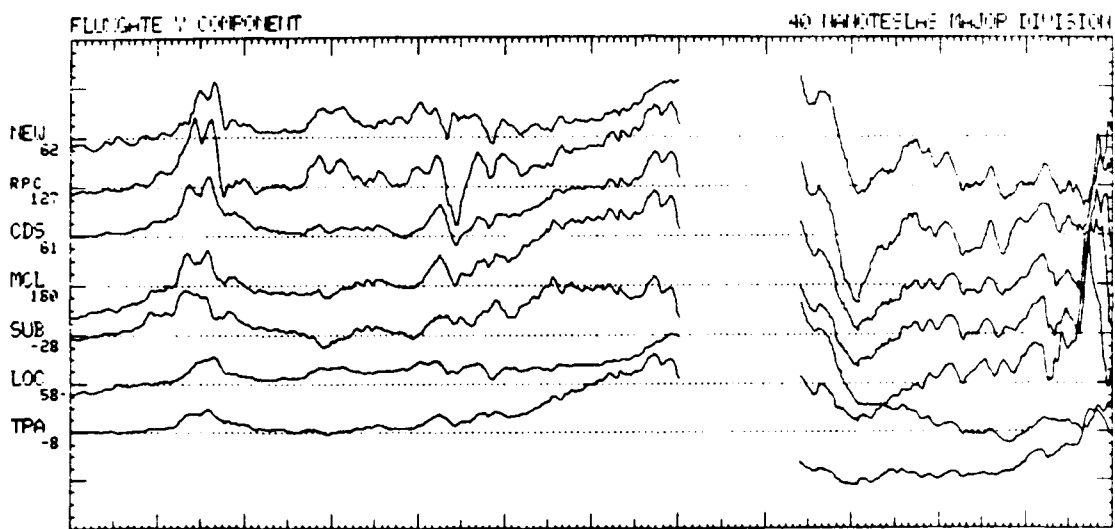
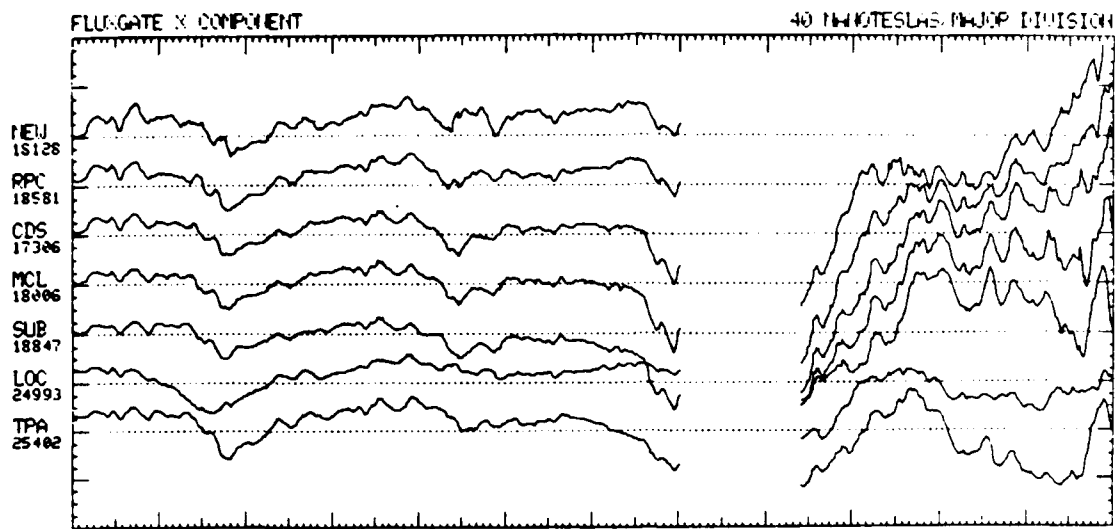
NEU
54795
RPC
54798
CDS
55574
MCL
54691
SUB
53393
LOC
42995
TPA
42915



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 APR 79 (DAY 79.116)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

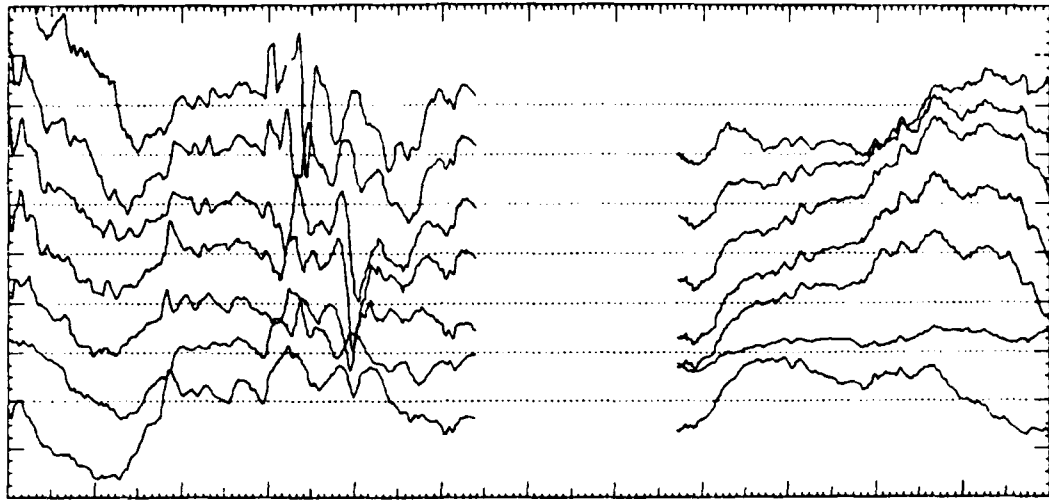


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 27 APR 79 (DAY 79.117) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

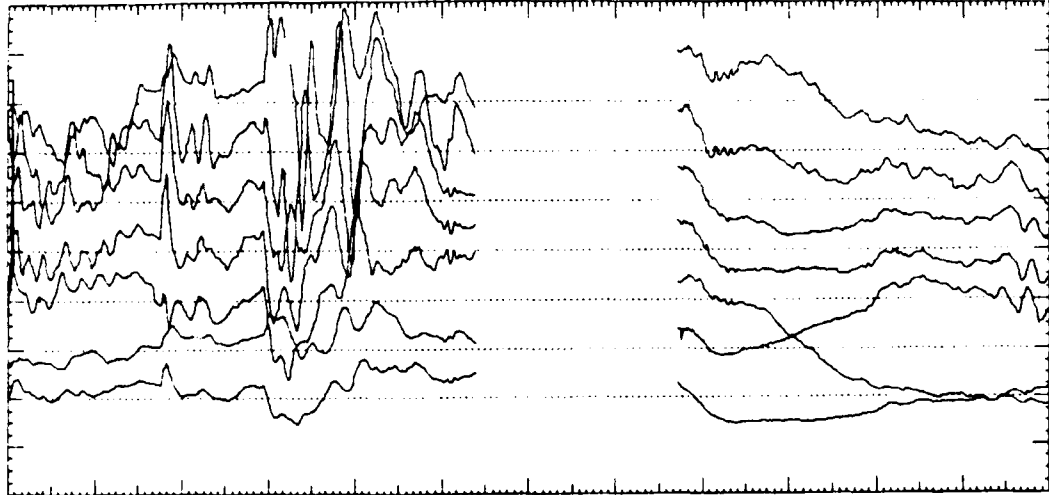
NEU
15129
PPC
13570
CDS
17294
MCL
17994
SUB
18839
LOC
24981
TPA
25401



FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

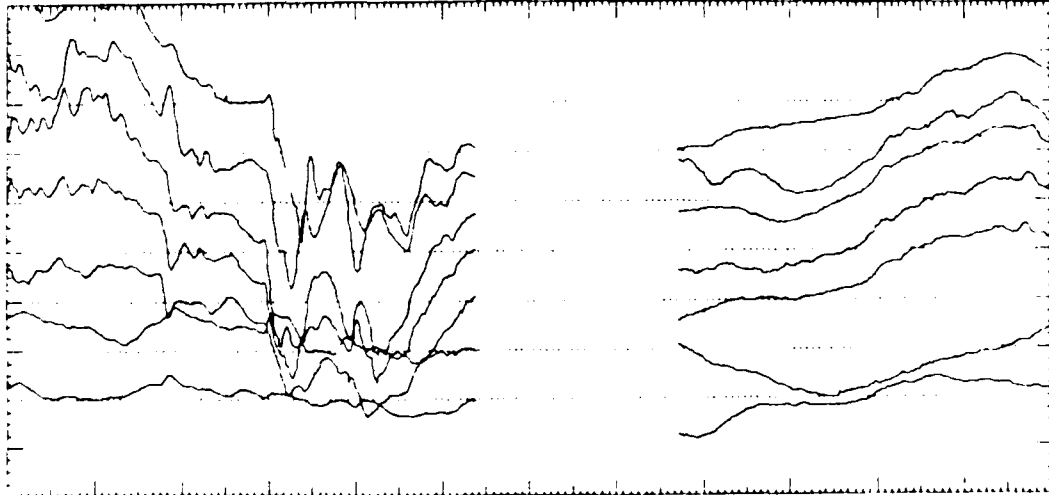
NEU
62
PPC
125
CDS
63
MCL
198
SUB
-32
LOC
59
TPA
-9



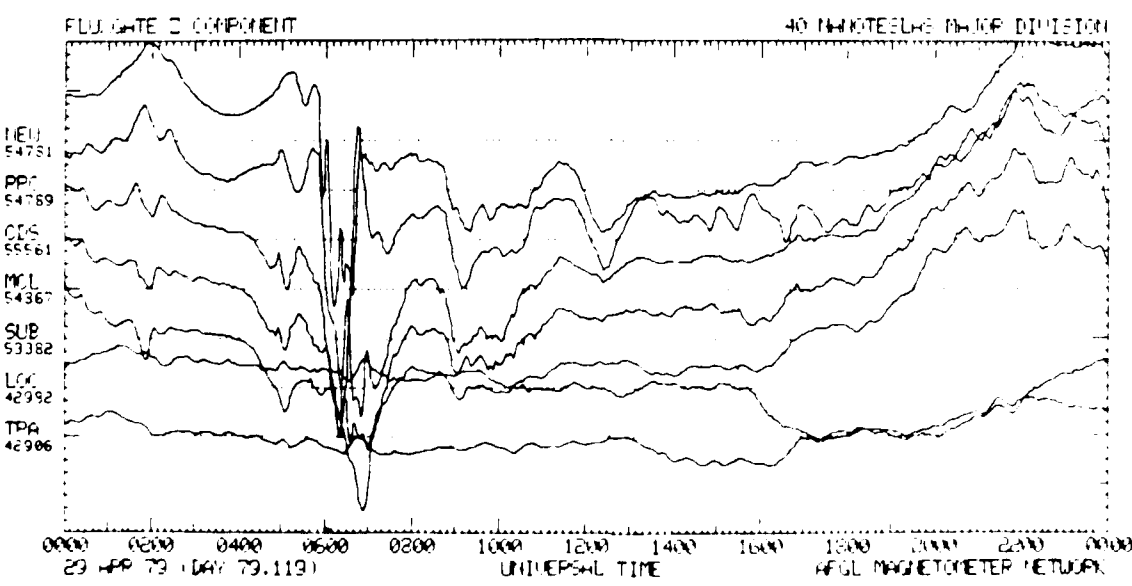
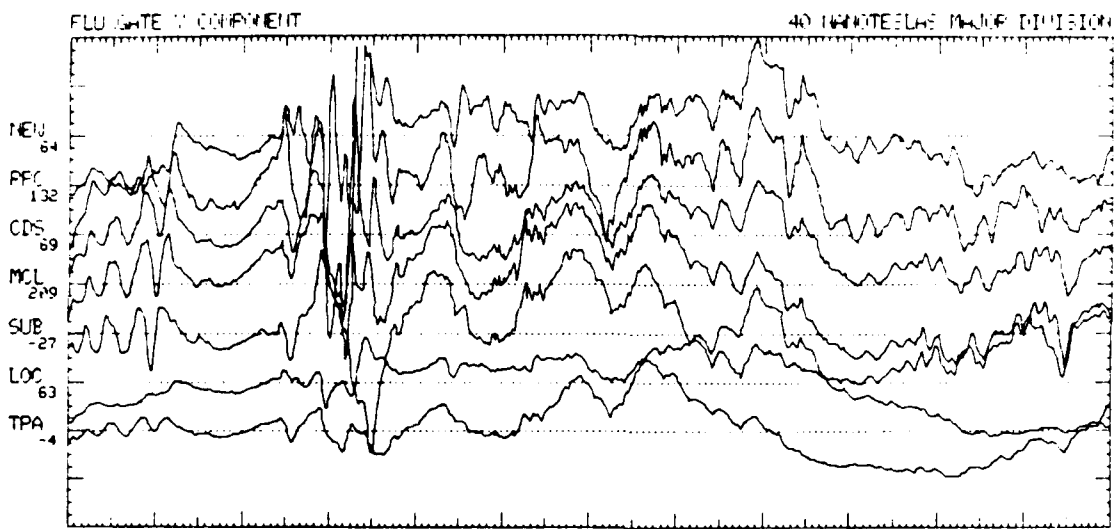
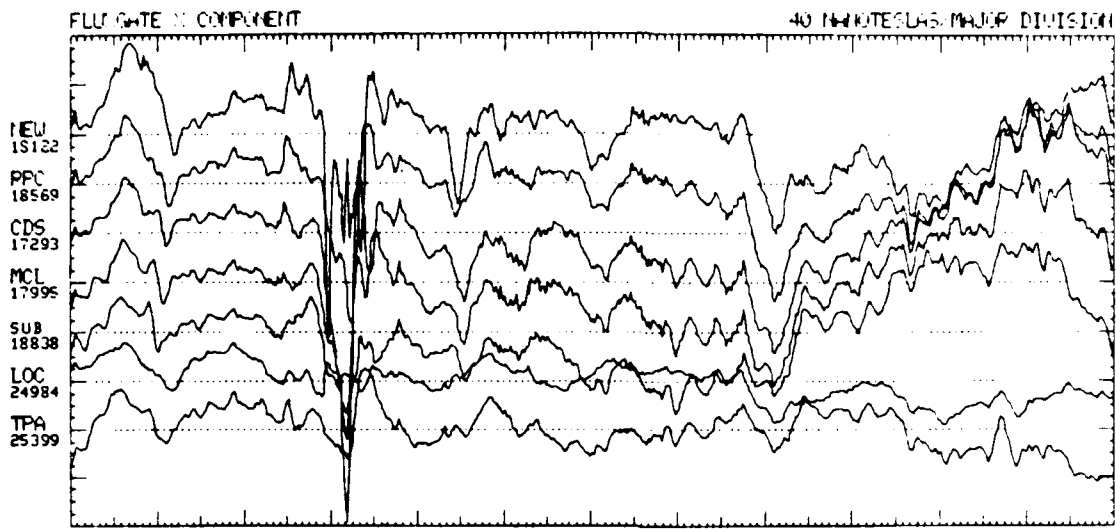
FLIGHTLINE Z COMPONENT

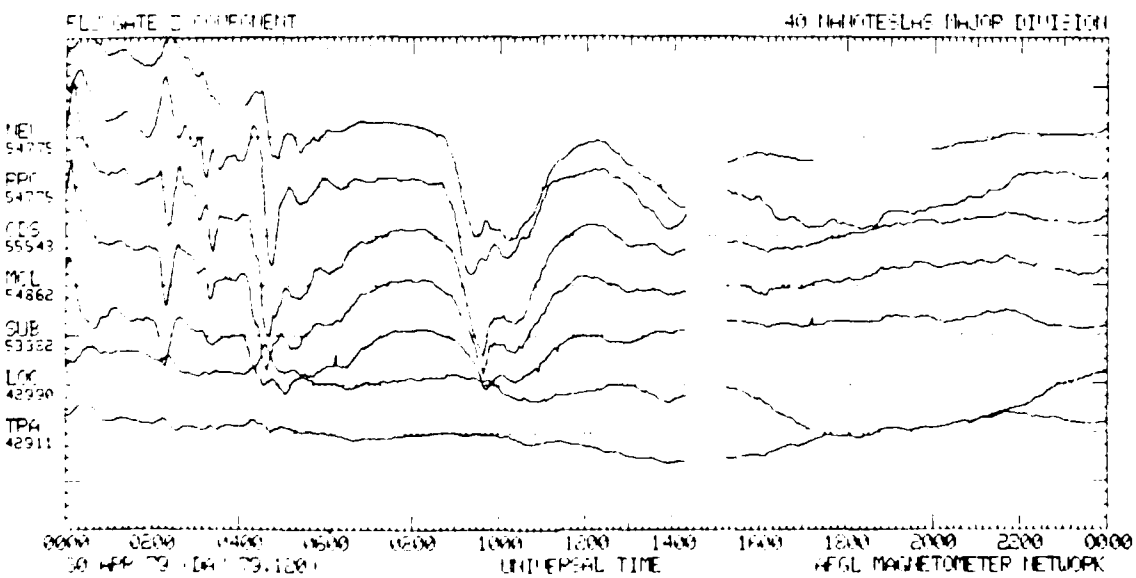
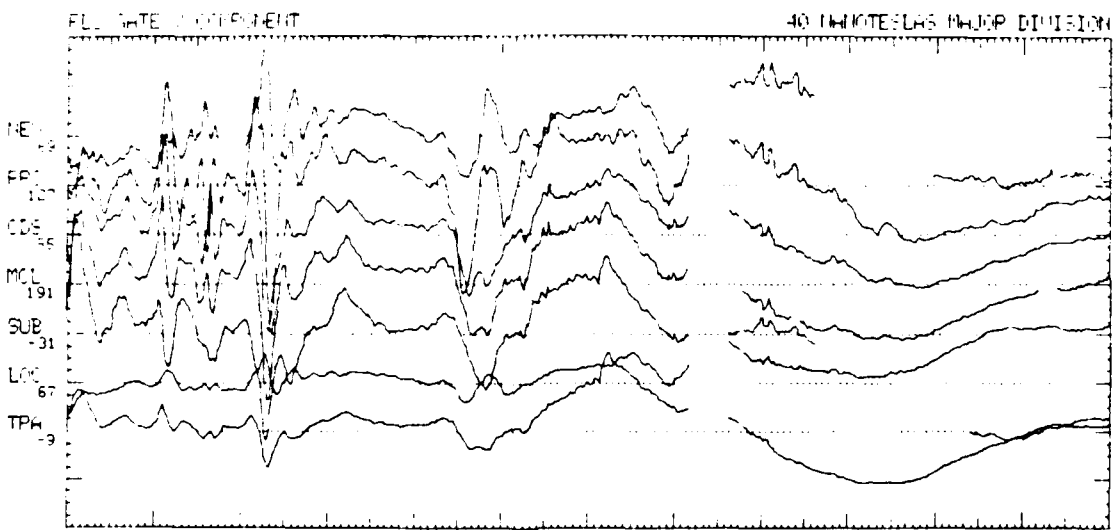
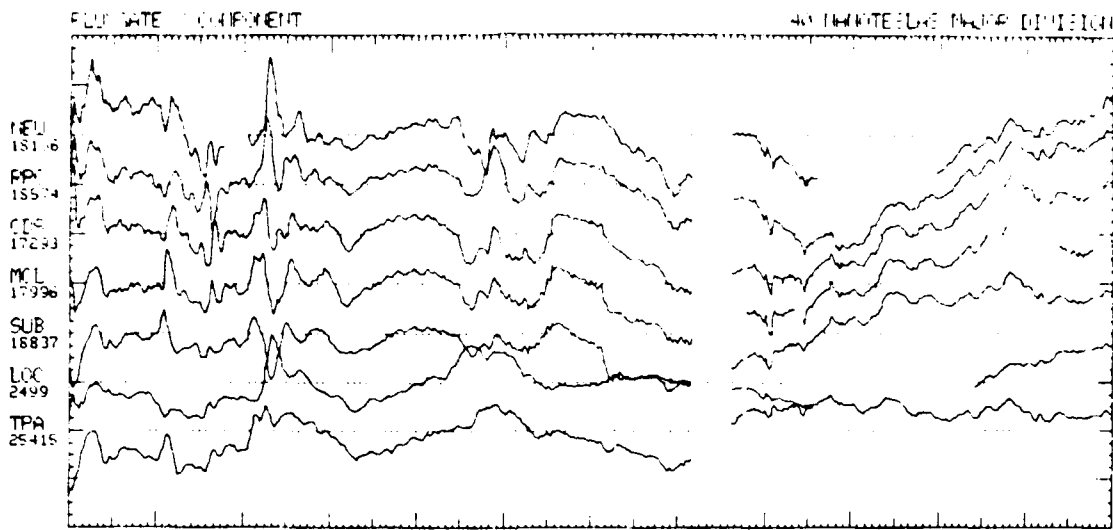
40 NANOTESLAS MAJOR DIVISION

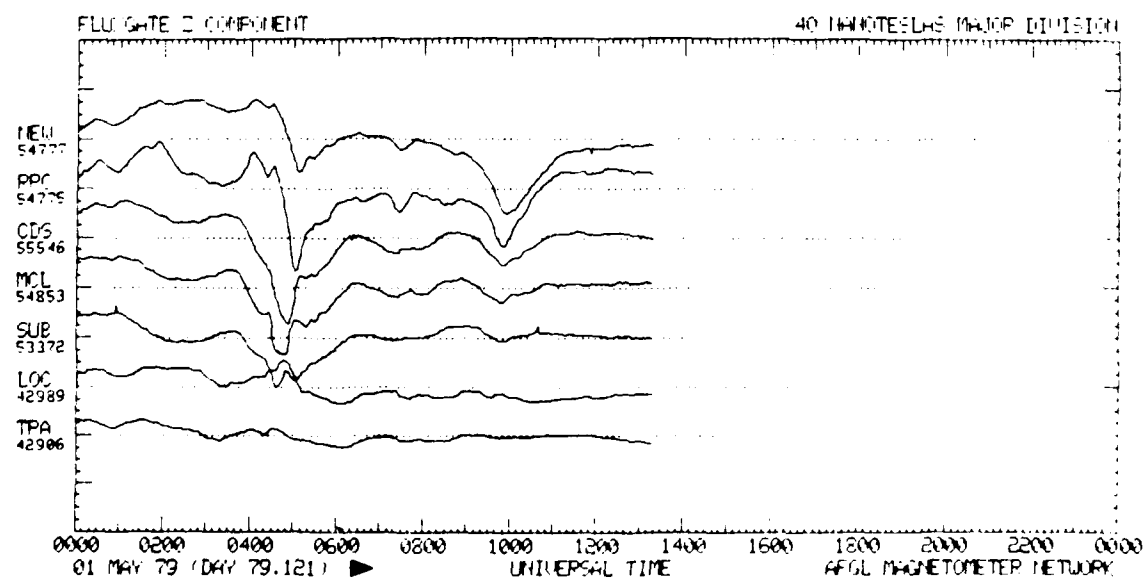
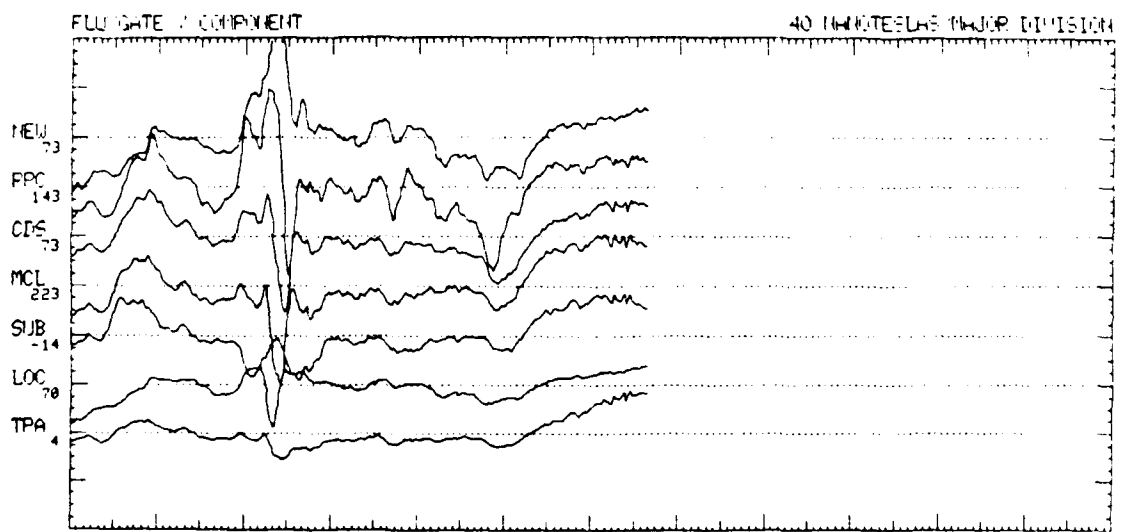
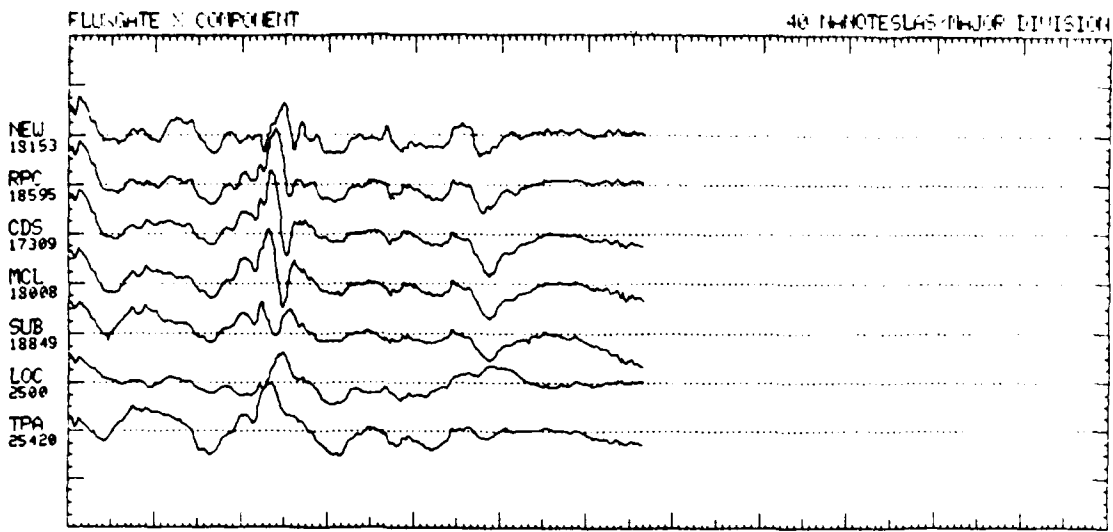
NEU
54794
PPC
54794
CDS
55560
MCL
54863
SUB
53379
LOC
42984
TPA
42912



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 APR 79 (047 79.112) ▶ UNIVERSAL TIME HFGL MAGNETOMETER NETWORK







FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEW
18153
RPC
18595
CDS
17309
MCL
18008
SUB
18849
LOC
25004
TPA
25420

FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEW
73
RPC
143
CDS
73
MCL
223
SUB
-14
LOC
70
TPA
4

FLIGHTGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

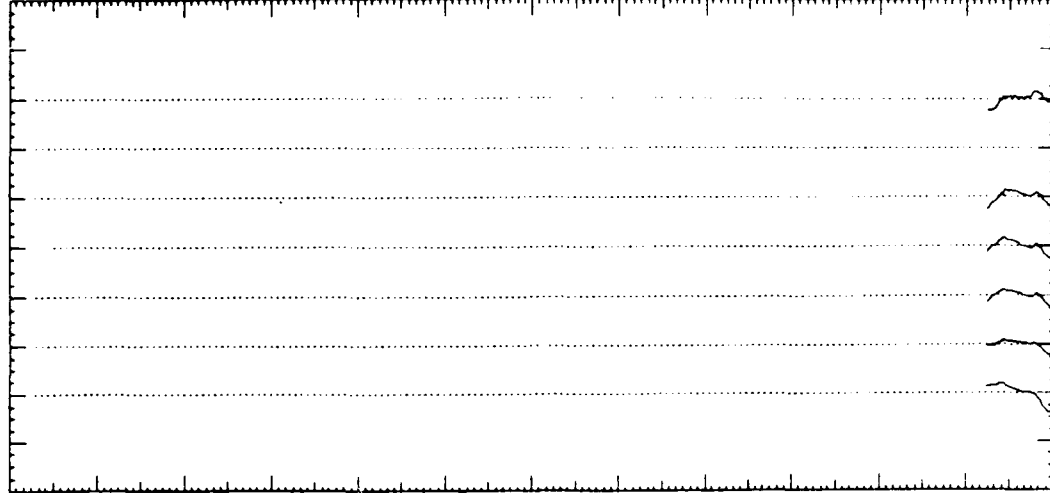
NEW
54777
RPC
54775
CDS
55546
MCL
54853
SUB
53372
LOC
42989
TPA
42906

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
02 MAY 79 (DAY 79.122) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUNGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

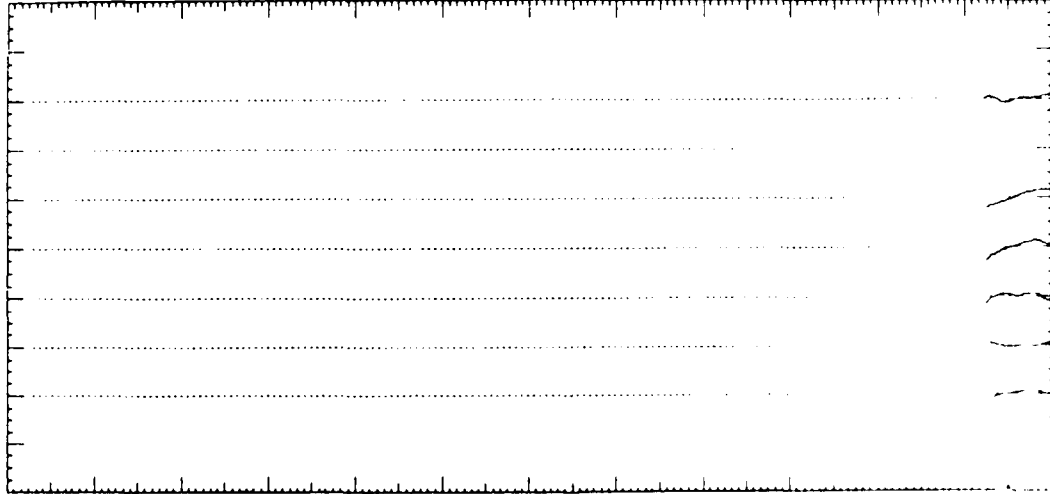
NEW
18153
RPC
18630
CDS
17335
MCL
18034
SUB
18871
LOC
25017
TPA
25433



FLUNGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

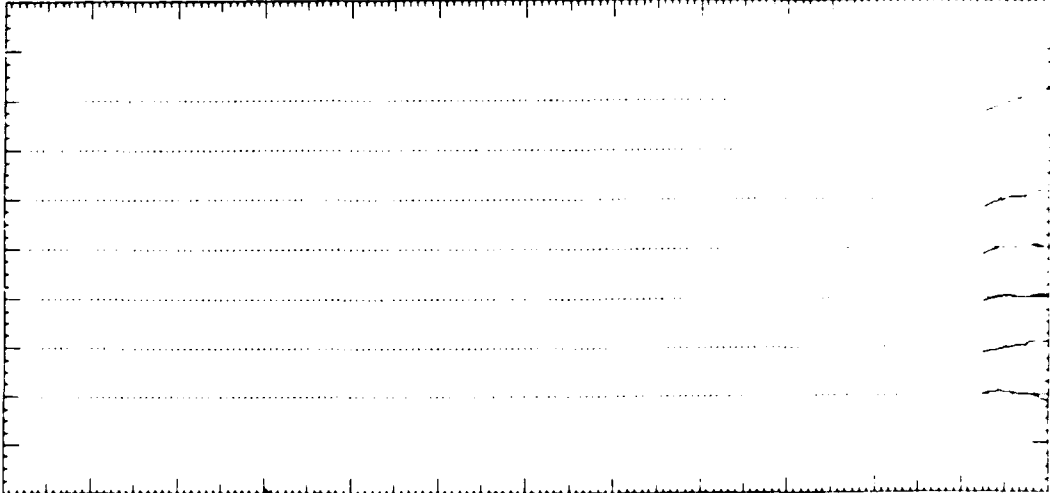
NEW
36
RPC
11
CDS
5
MCL
170
SUB
-23
LOC
39
TPA
-3



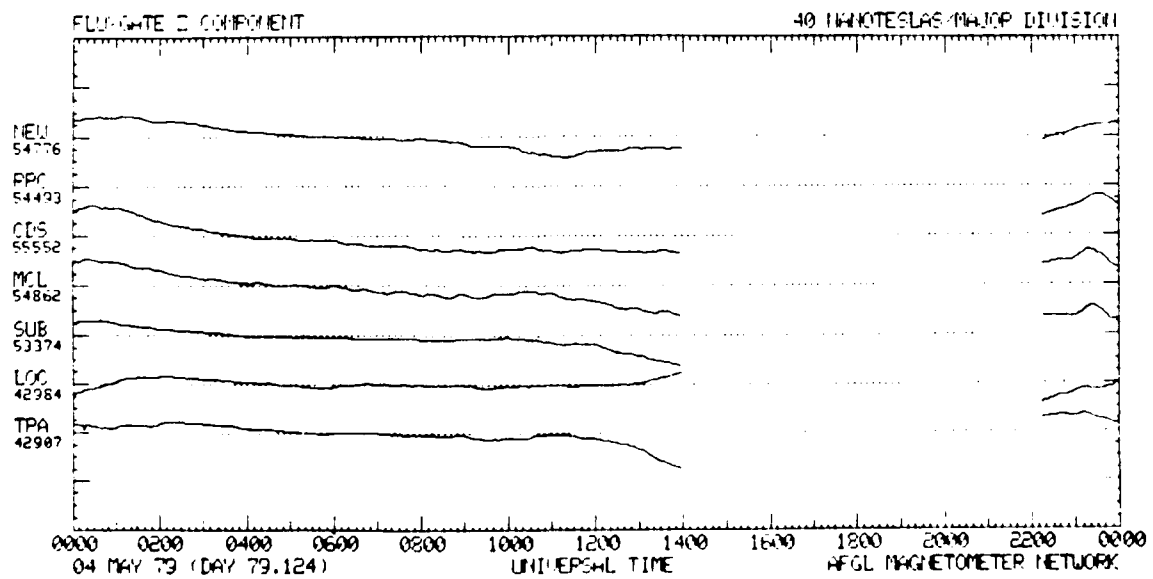
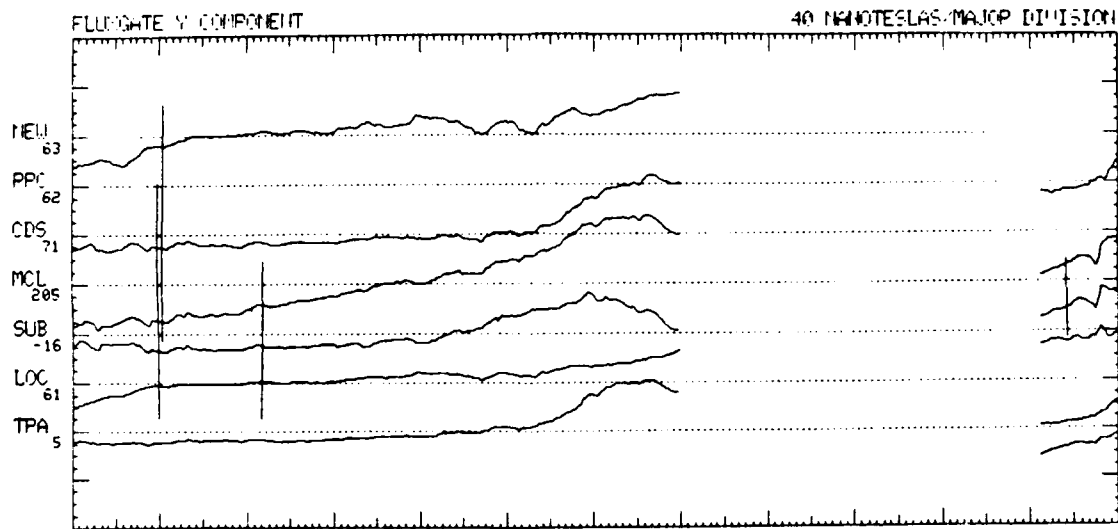
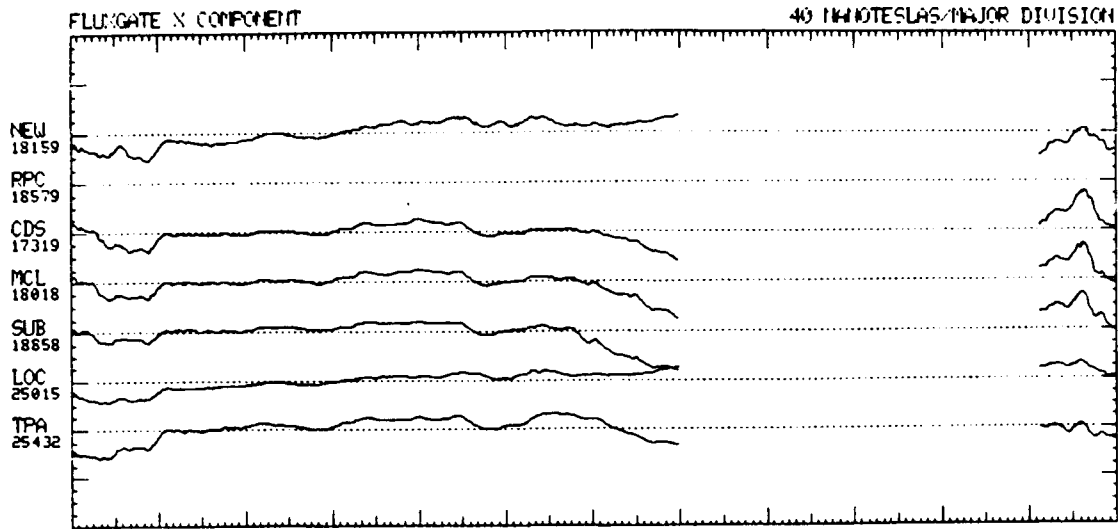
FLUNGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEW
54781
RPC
54567
CDS
55568
MCL
54880
SUB
53382
LOC
42972
TPA
42920

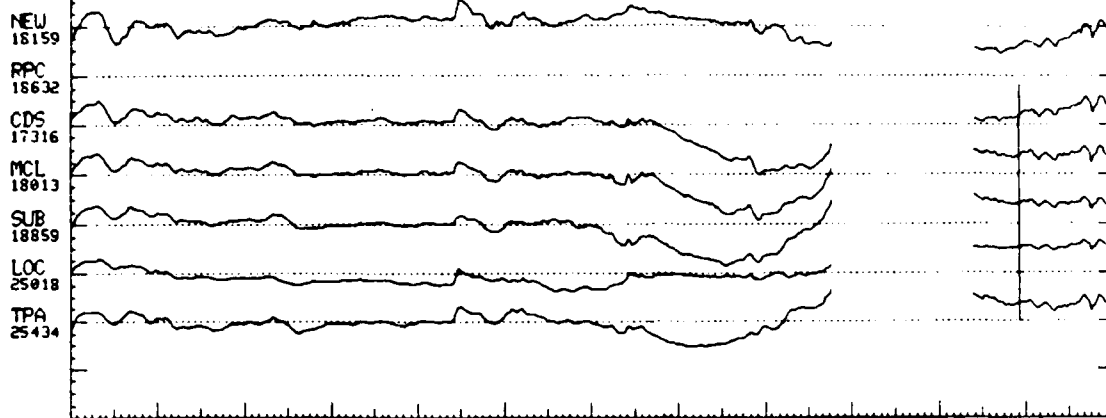


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 MAY 79 (DAY 79.123) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



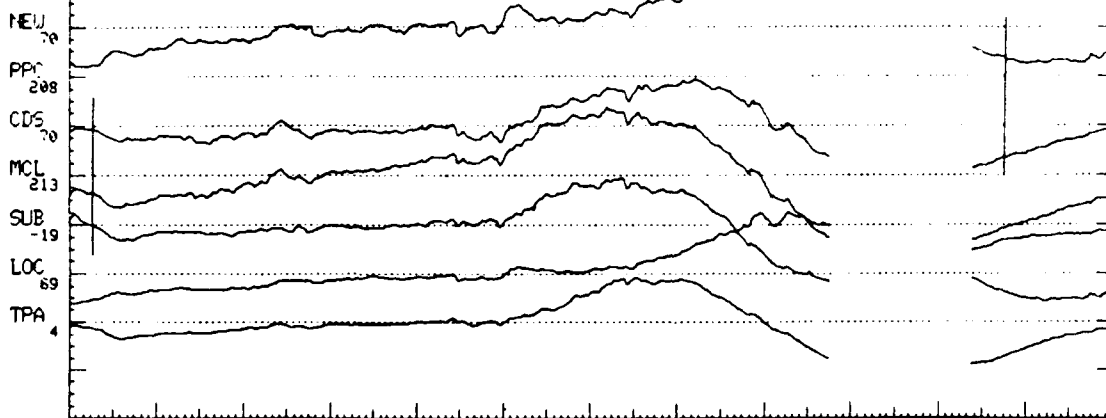
FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



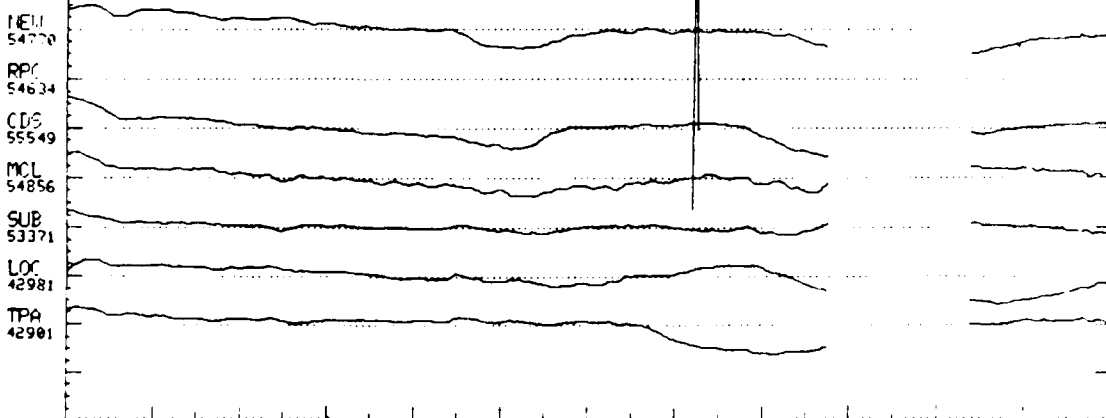
FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

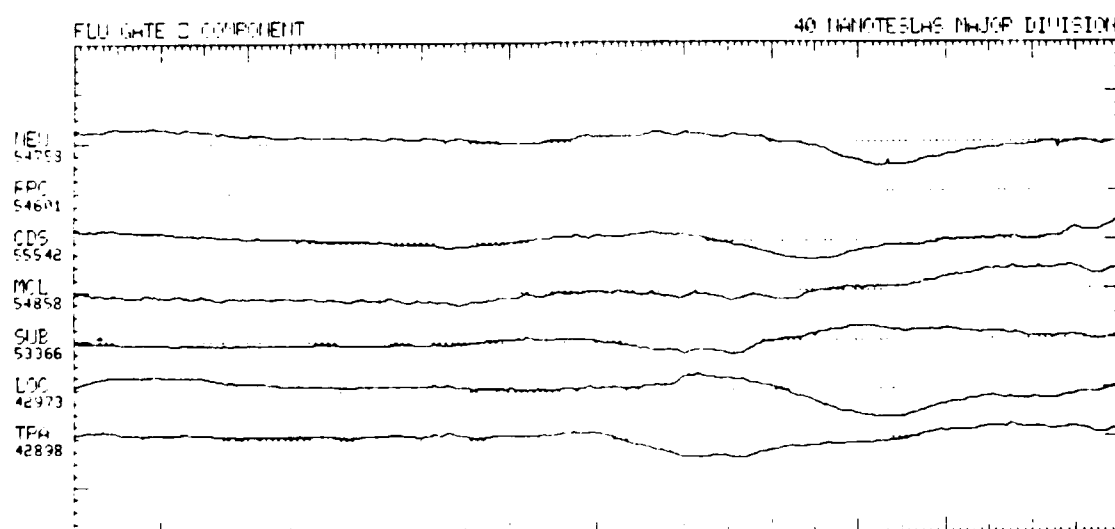
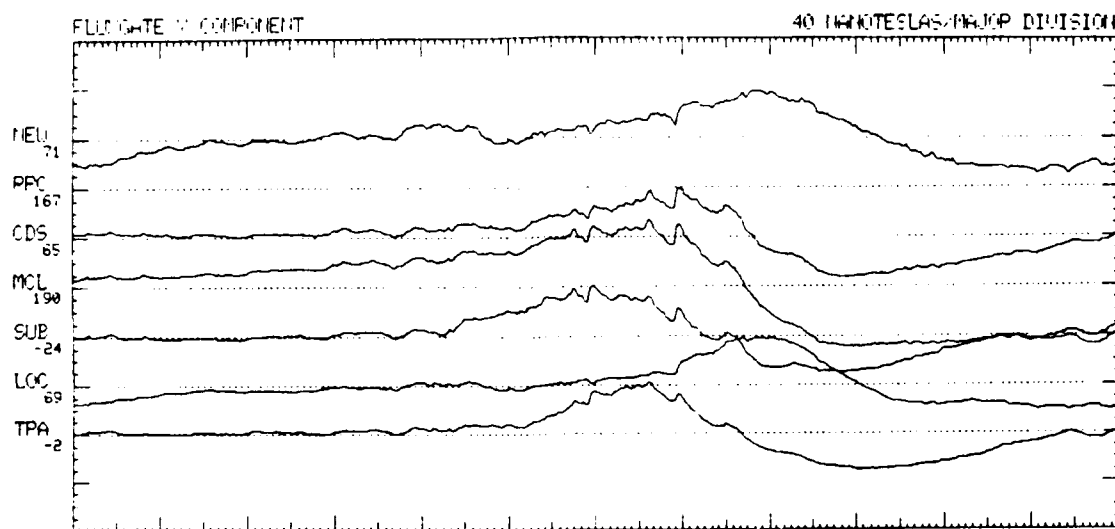
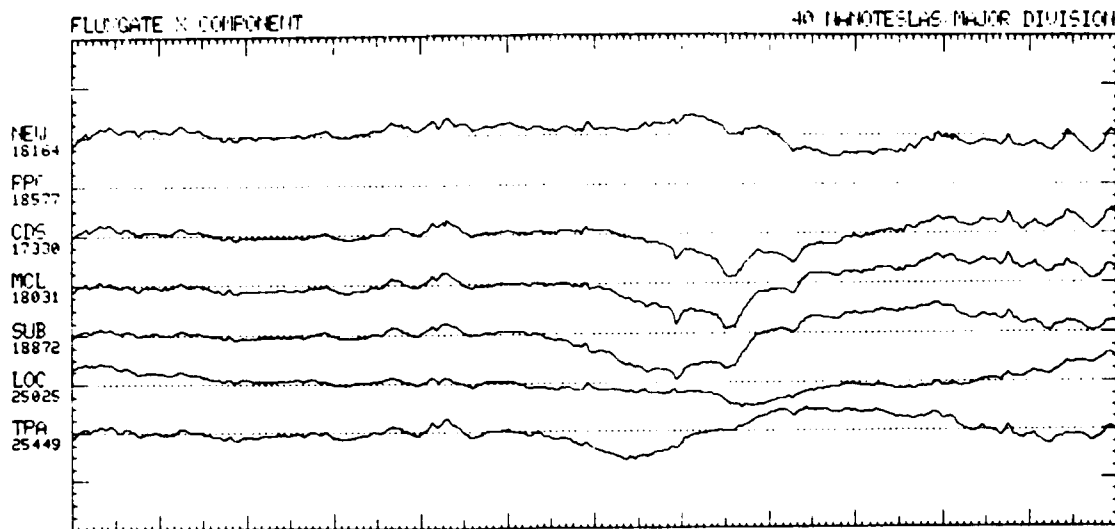


FLIGHTGATE Z COMPONENT

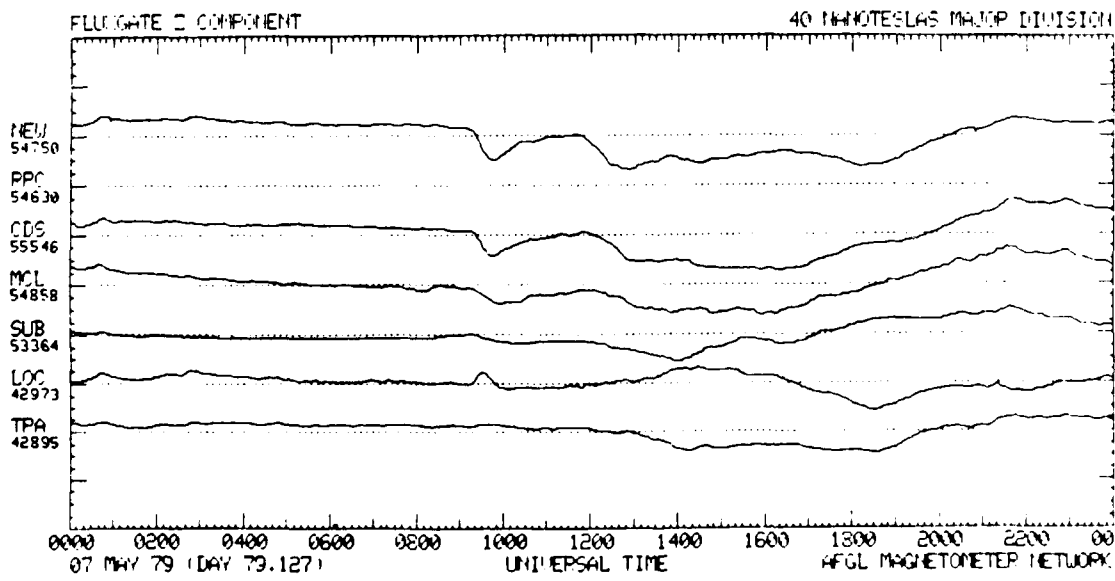
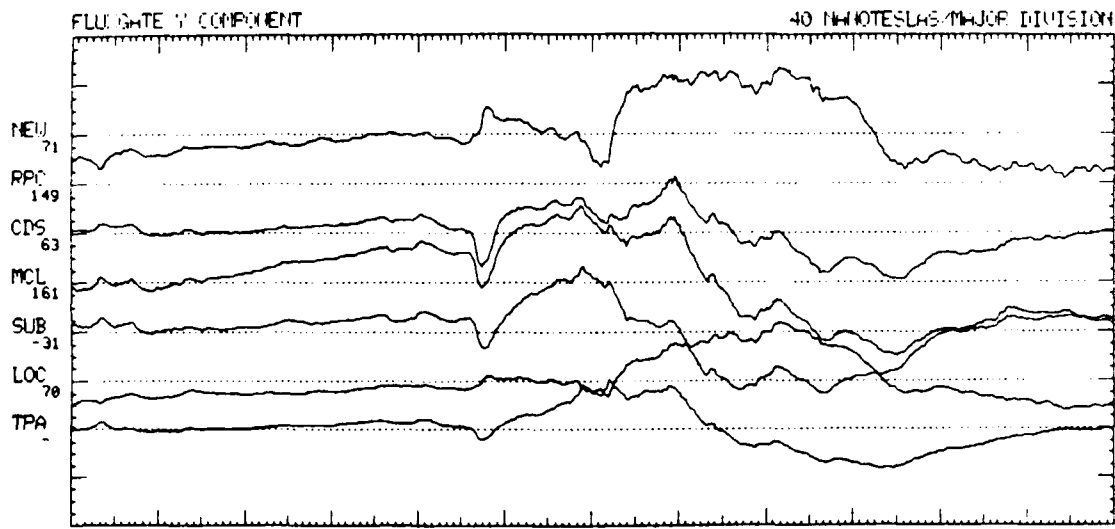
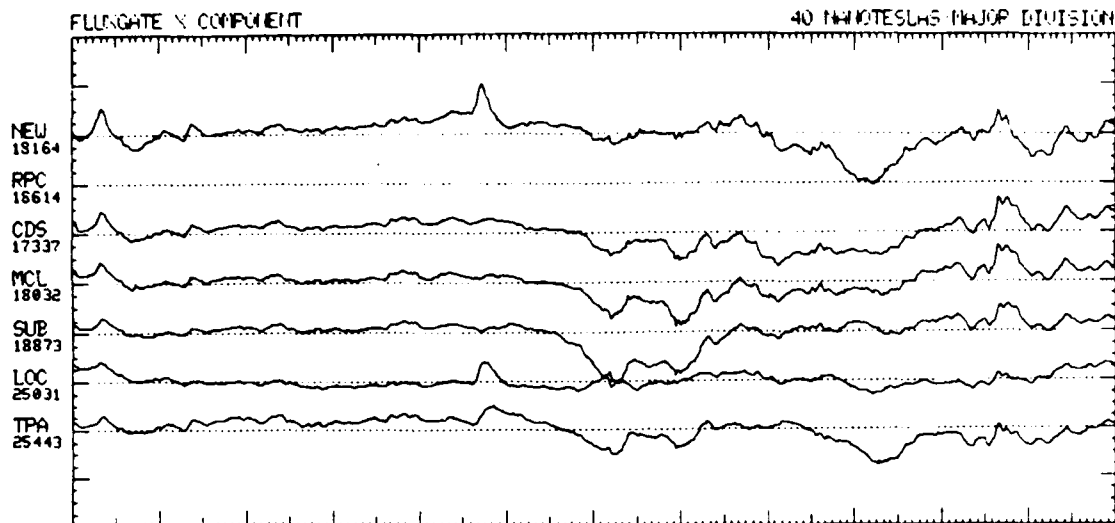
40 NANOTESLAS MAJOR DIVISION

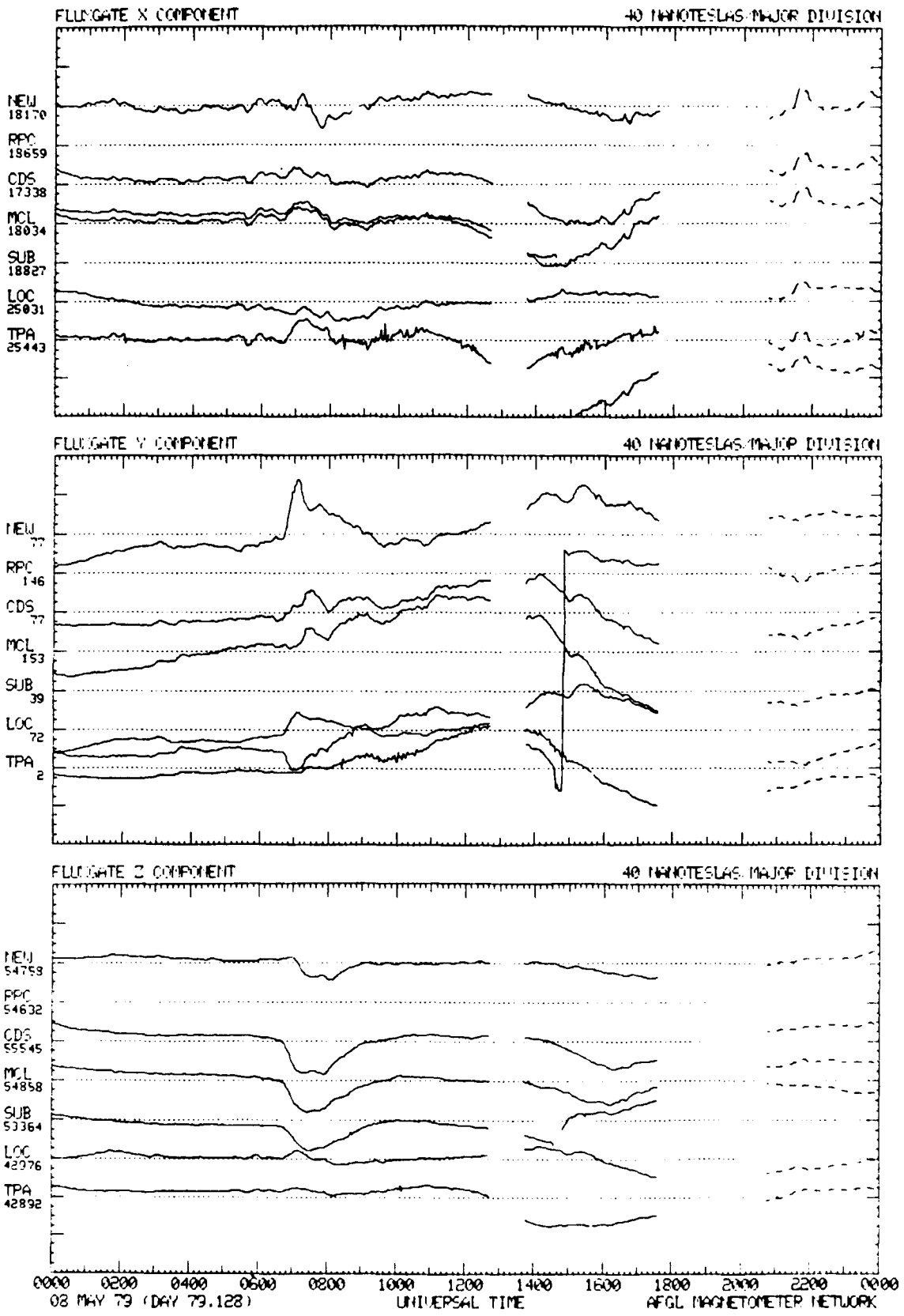


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 MAY 79 (DAY 79.125) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



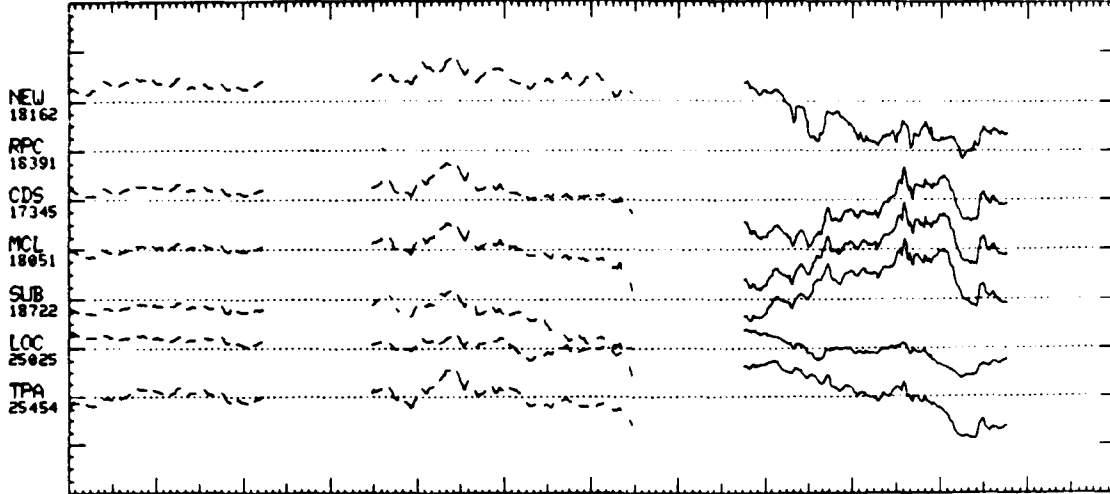
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 06 MAY 79 (DAY 79.126) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK





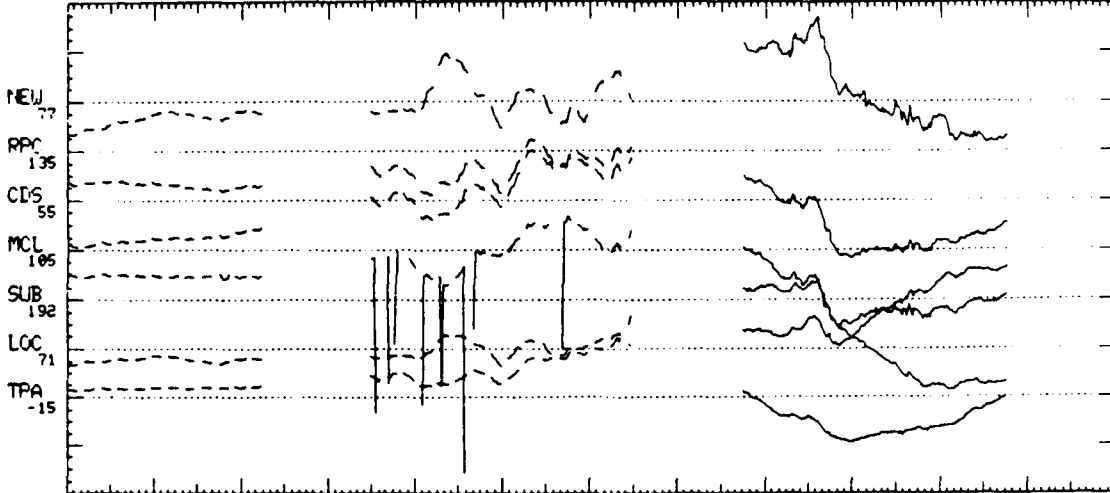
FLUNGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



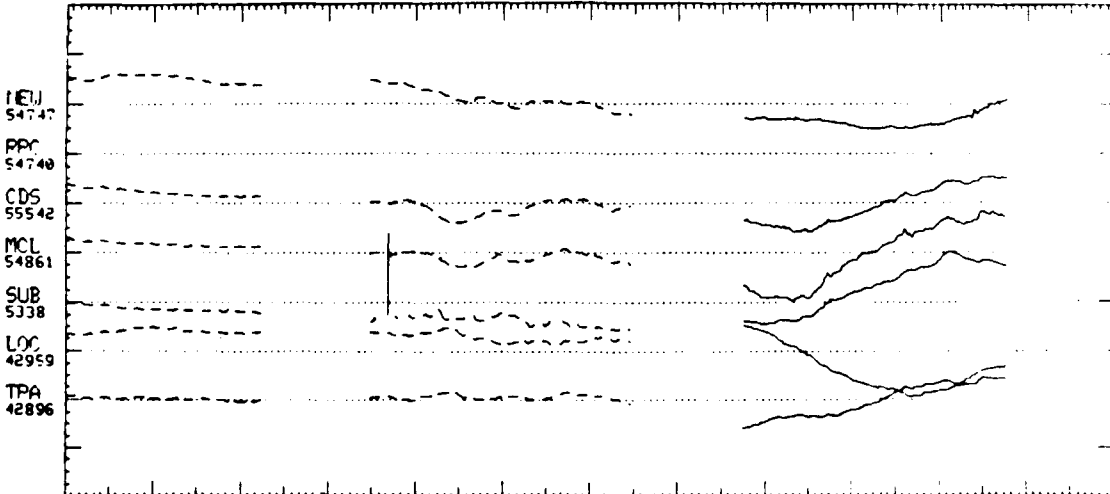
FLUNGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

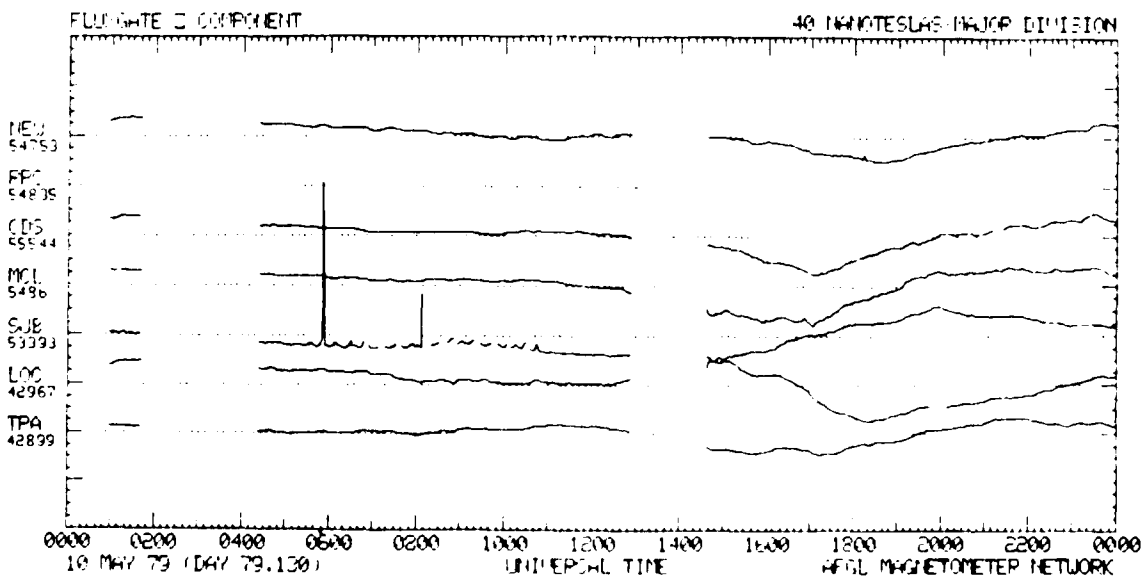
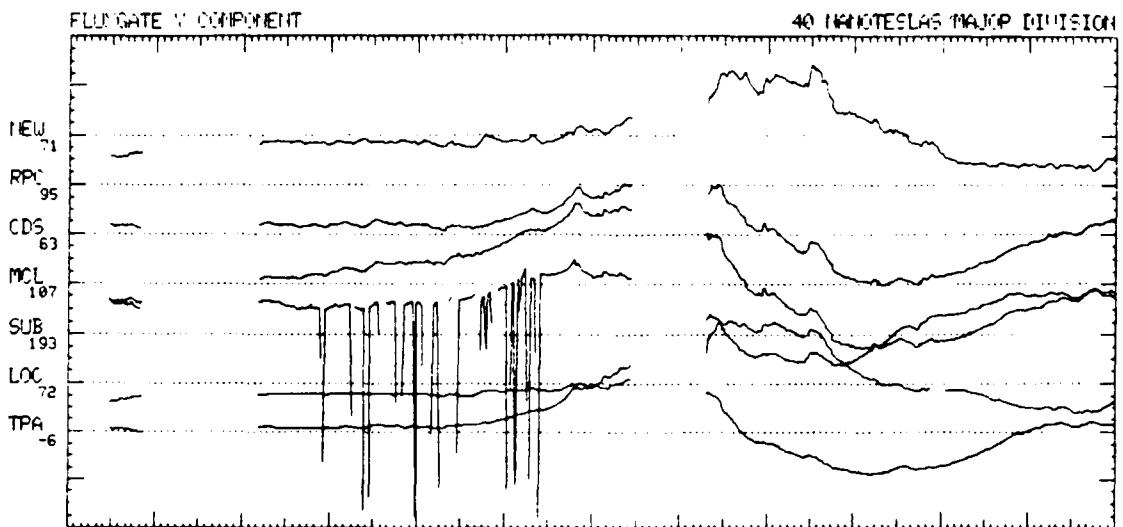
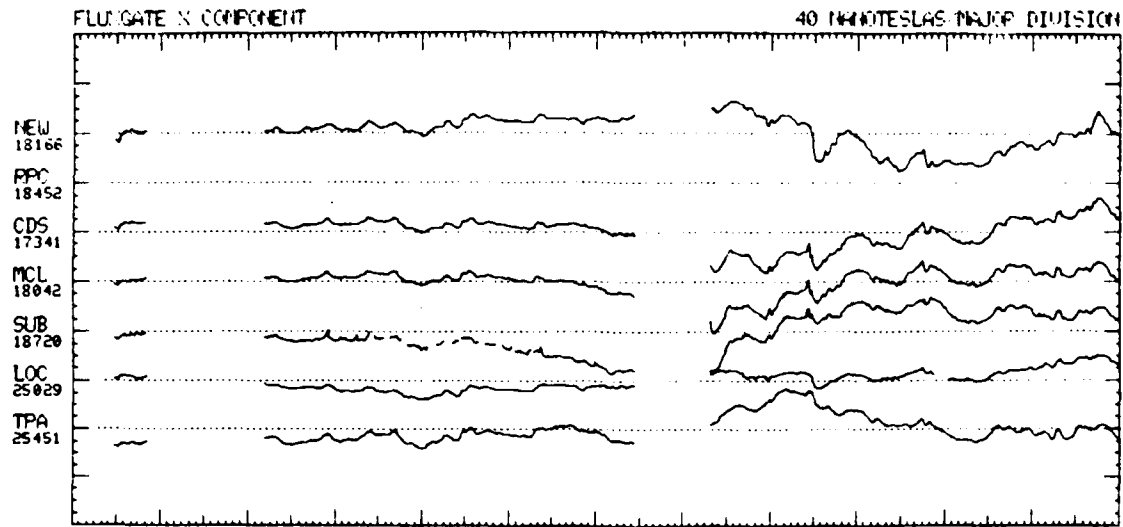


FLUNGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

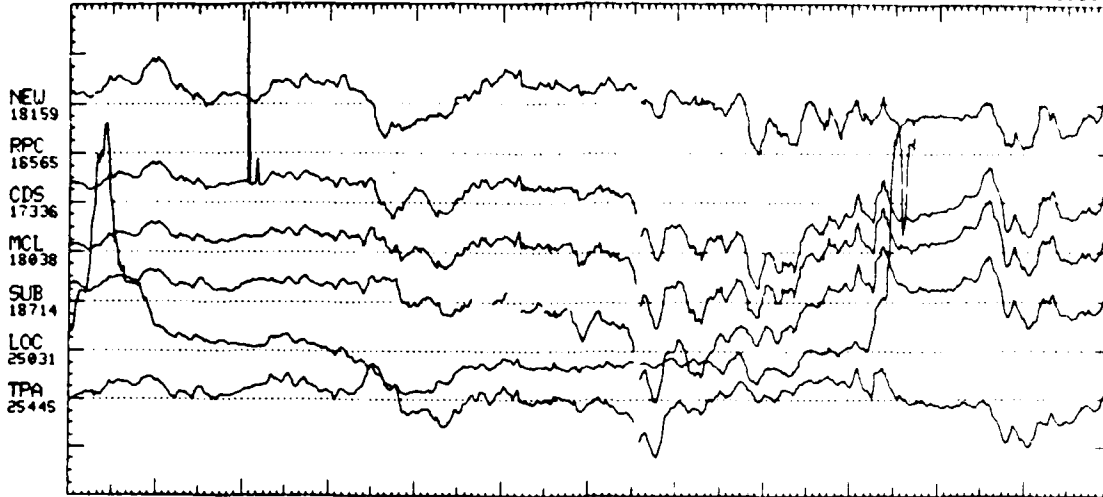


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 MAY 79 (DAY 79.129) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



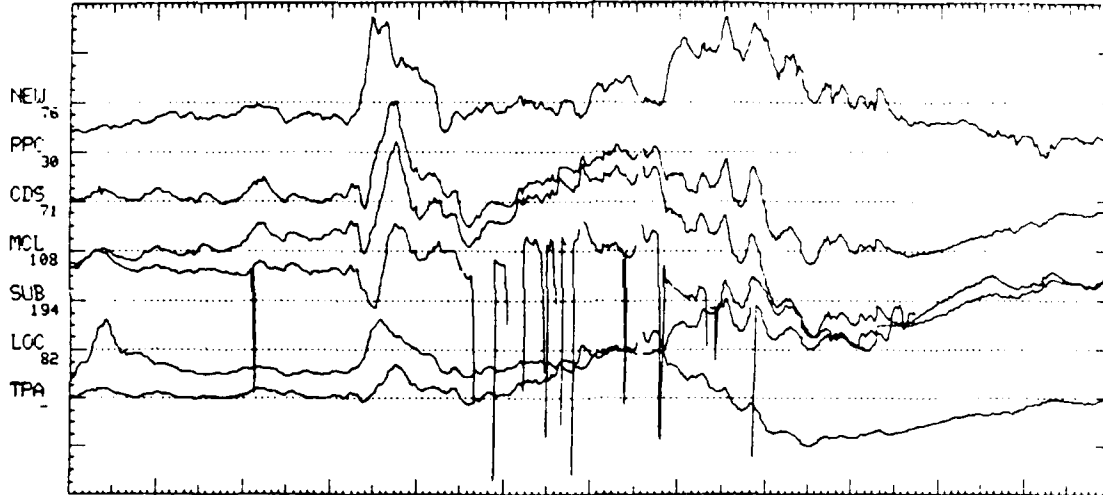
FLIGHTLINE X COMPONENT

40 NANOTESLAH MAJOR DIVISION



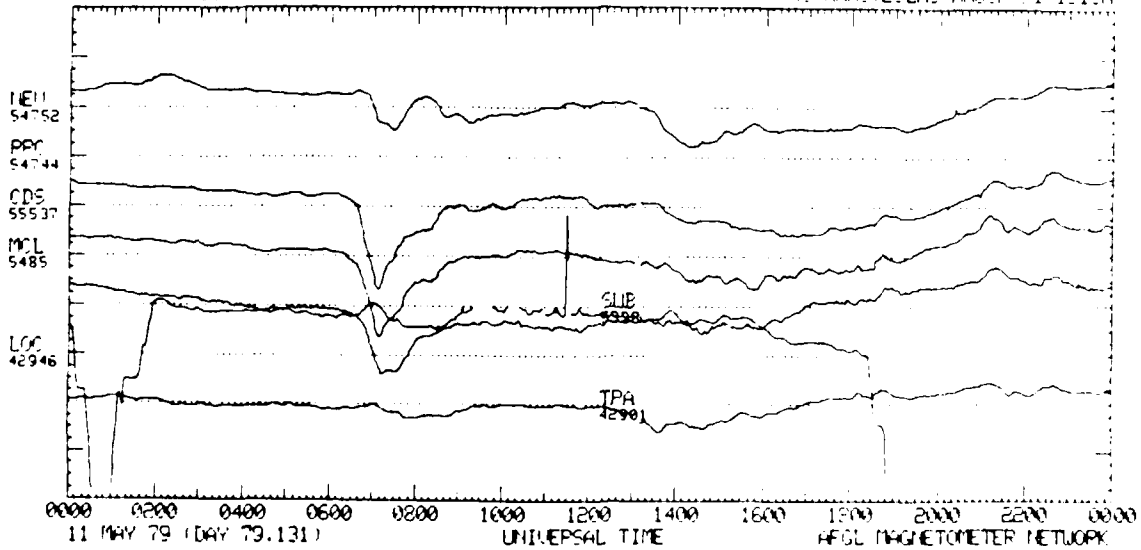
FLIGHTLINE Y COMPONENT

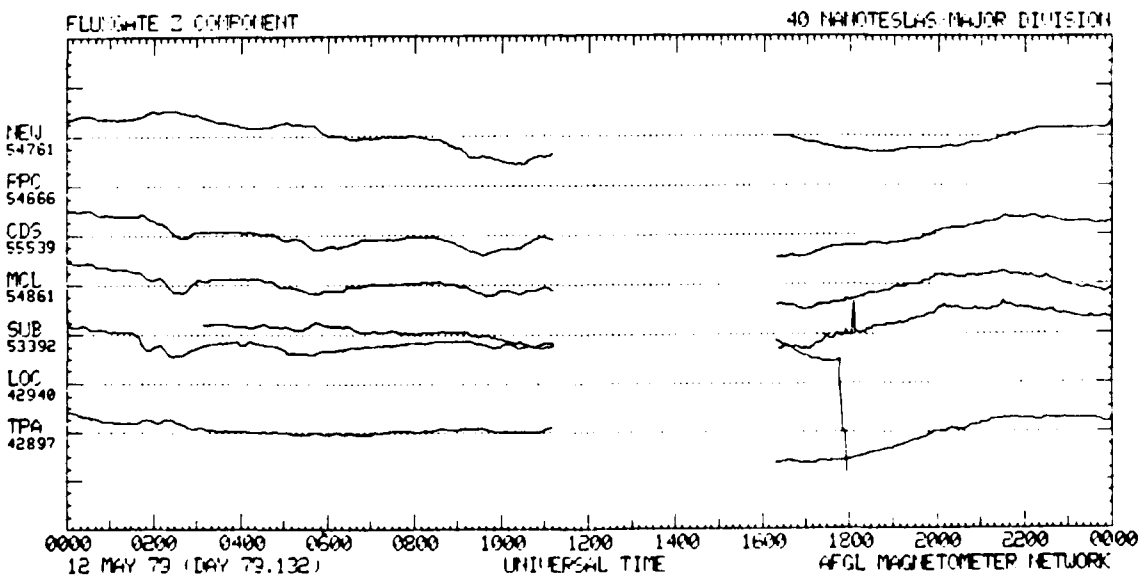
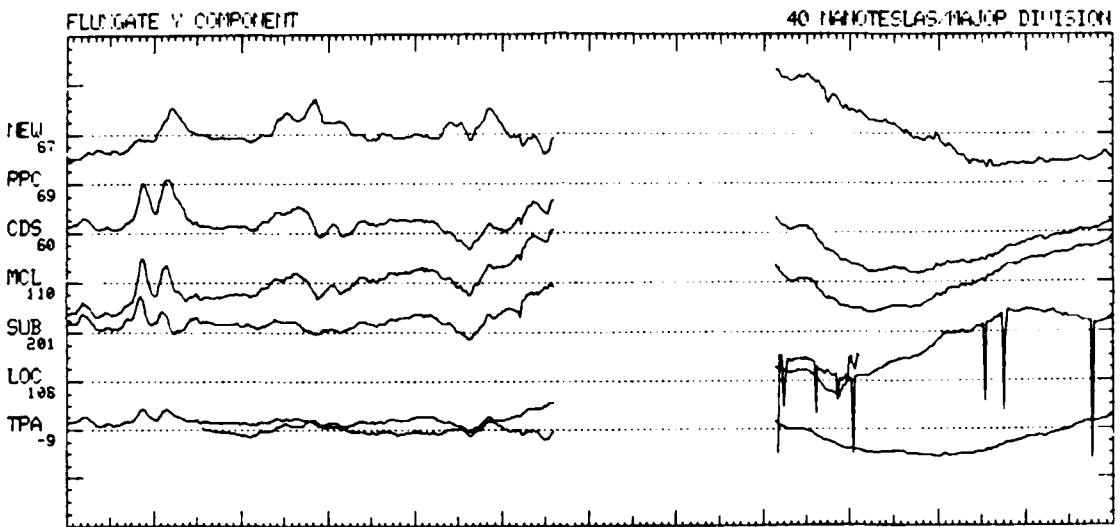
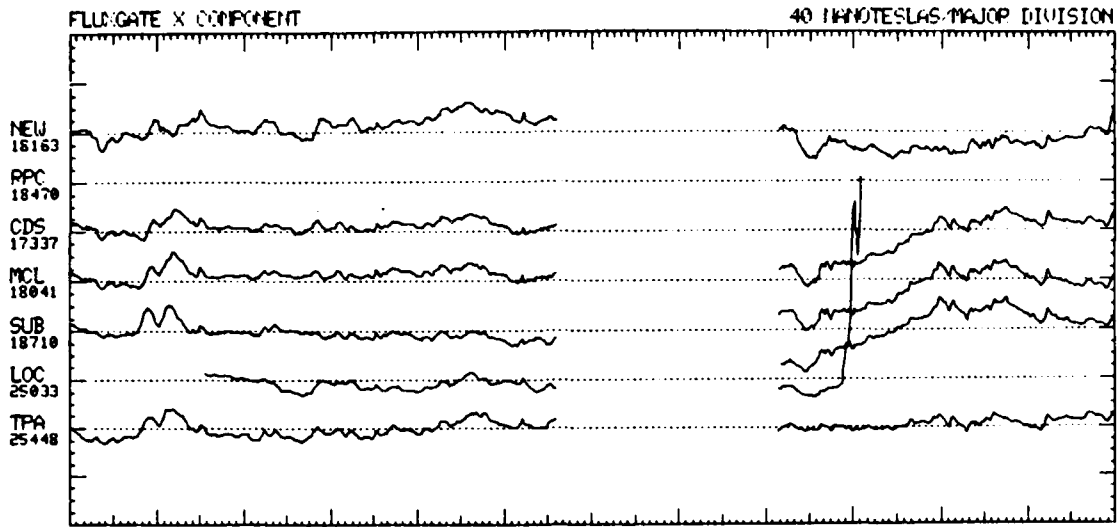
40 NANOTESLAH MAJOR DIVISION

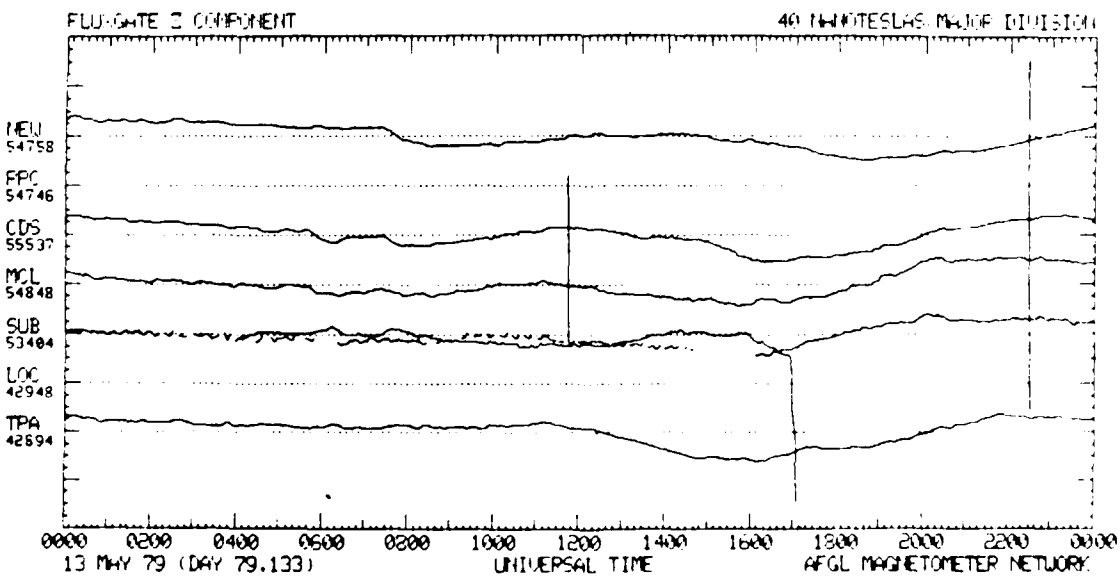
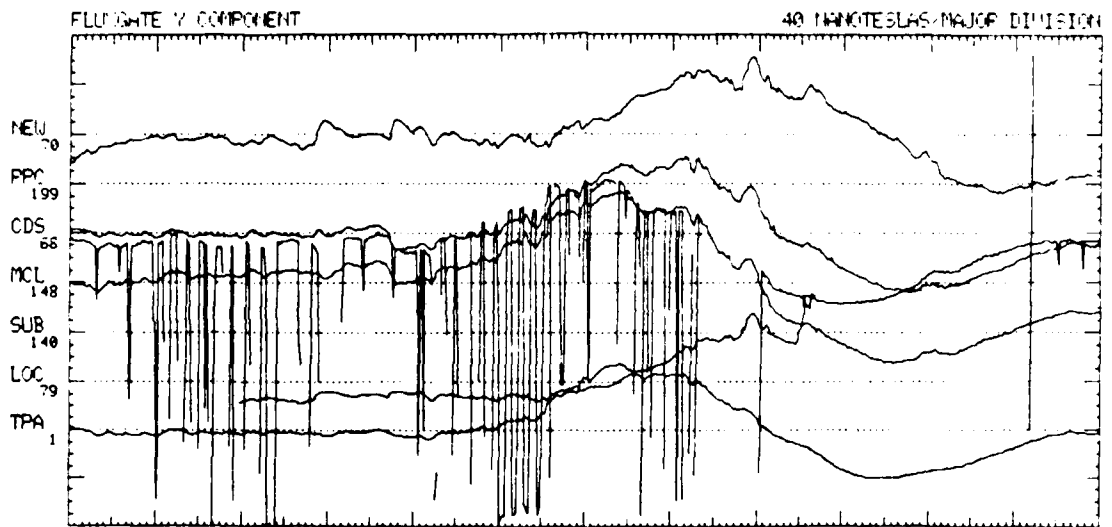
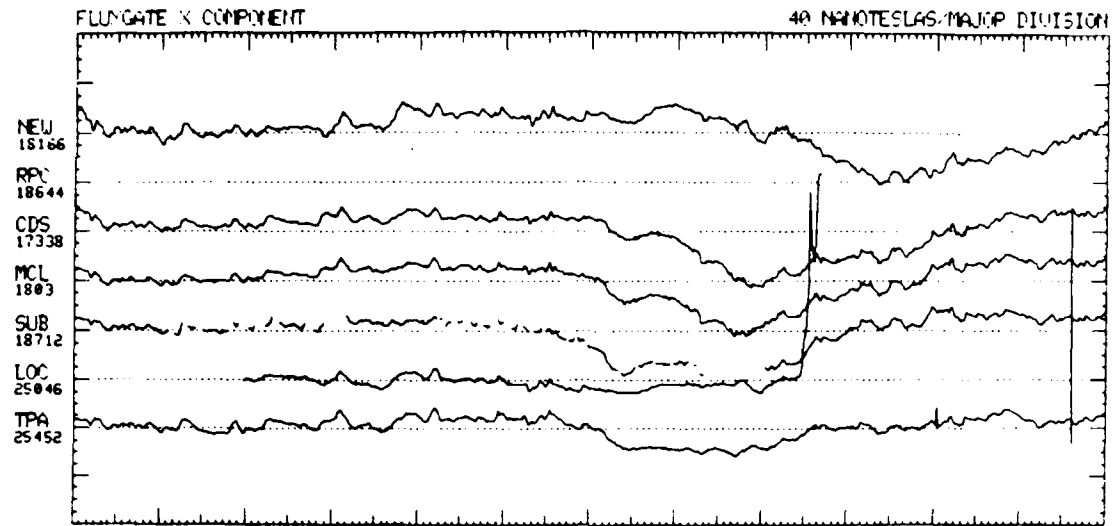


FLIGHTLINE Z COMPONENT

40 NANOTESLAH MAJOR DIVISION

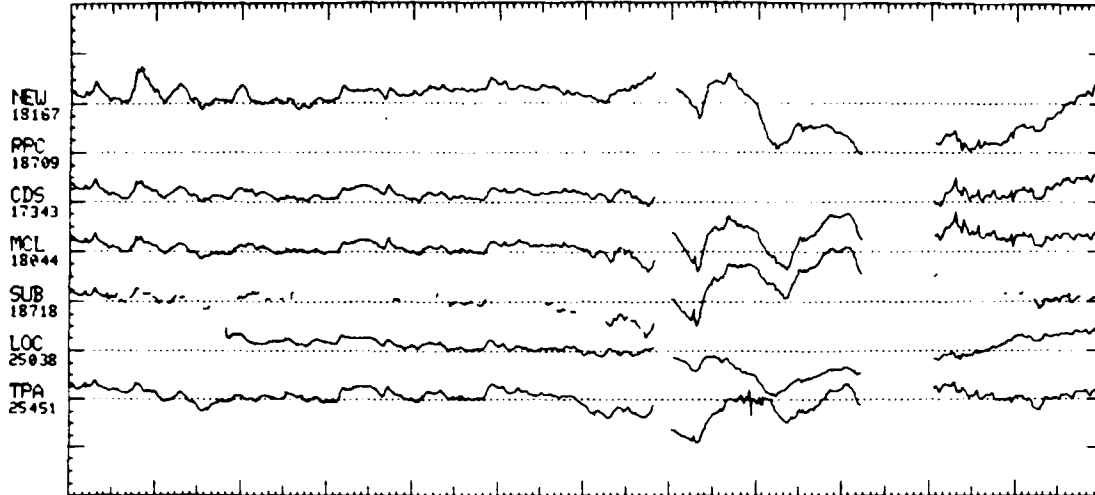






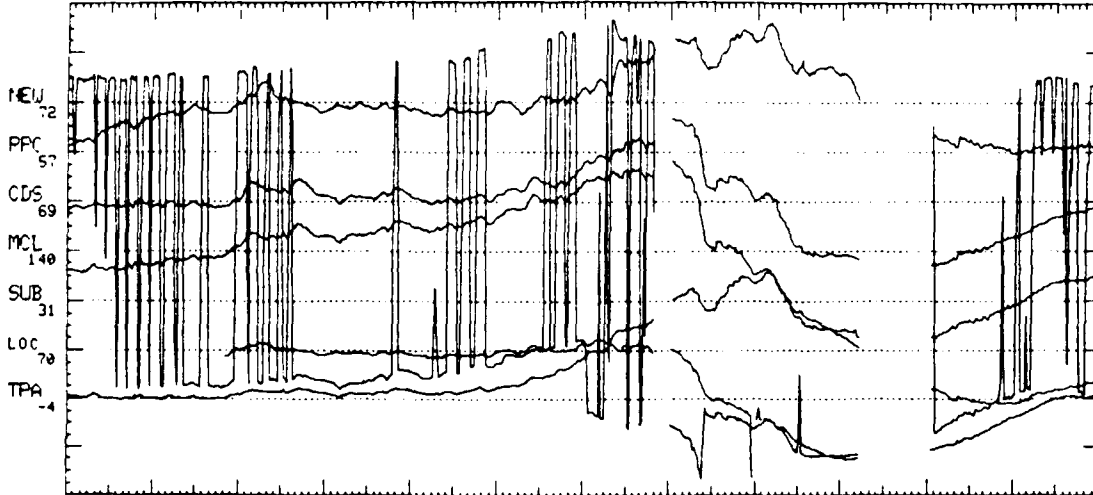
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



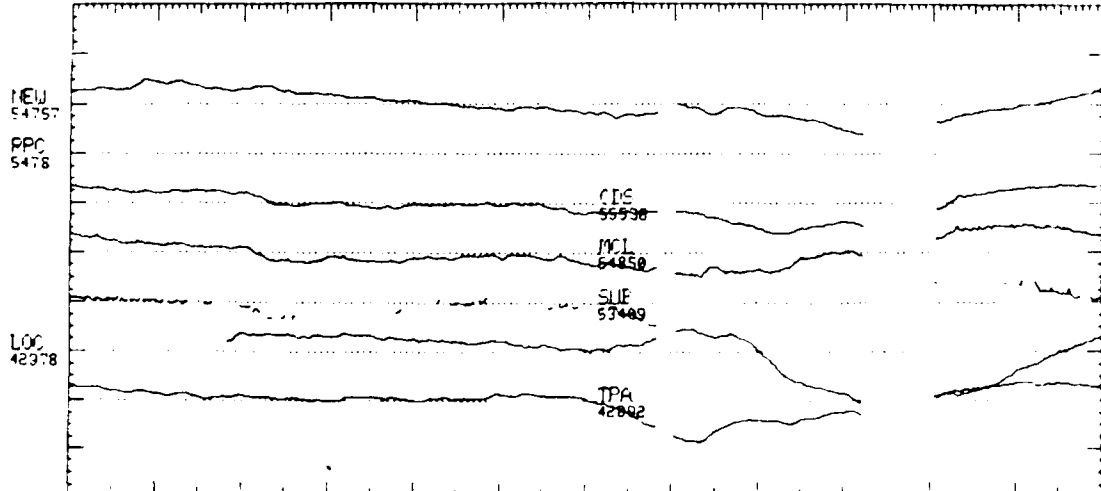
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION



FLIGHTLINE Z COMPONENT

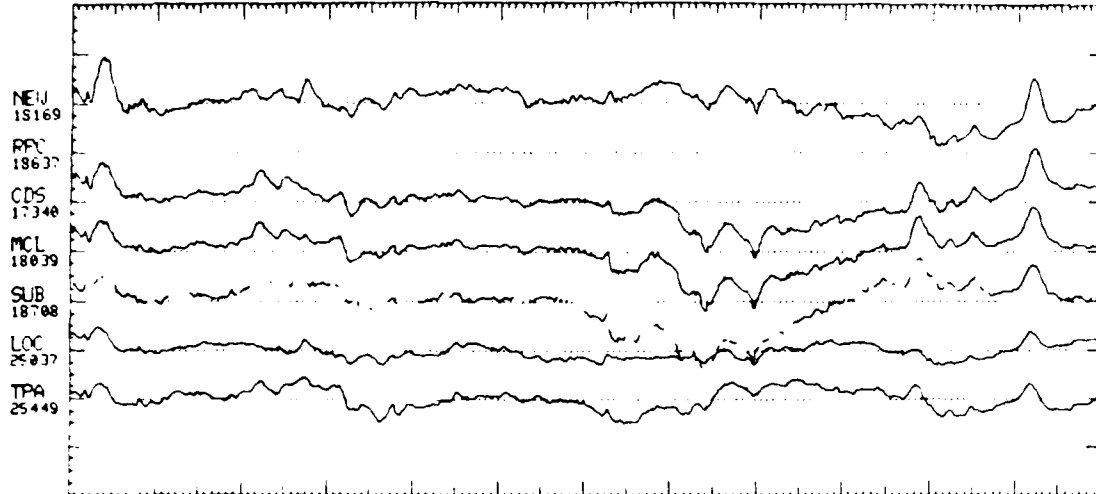
40 NANOTESLAS MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 14 MAY 79 (DAY 79.134) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

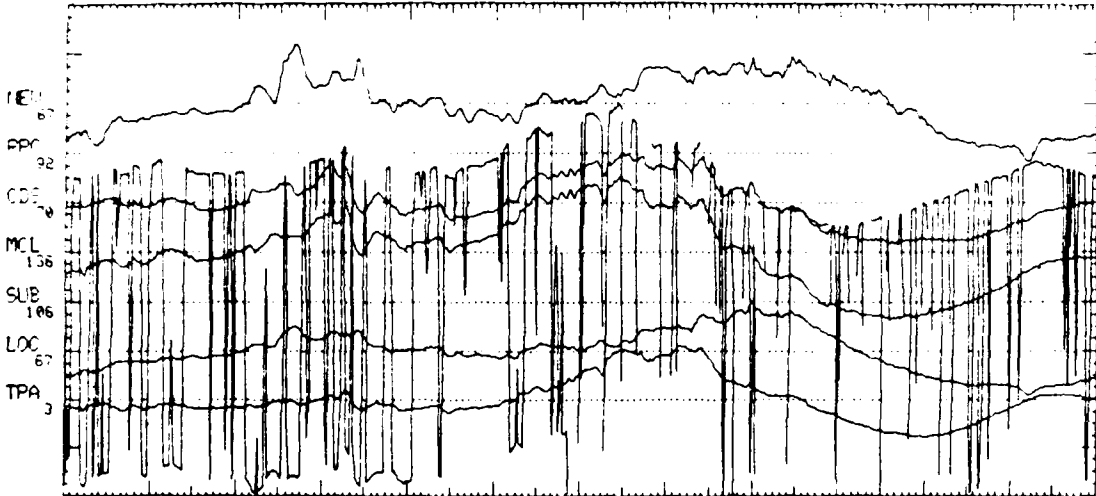
FLIGHTLINE COMPONENT

40 NANOTESLAH MAJOR DIVISION



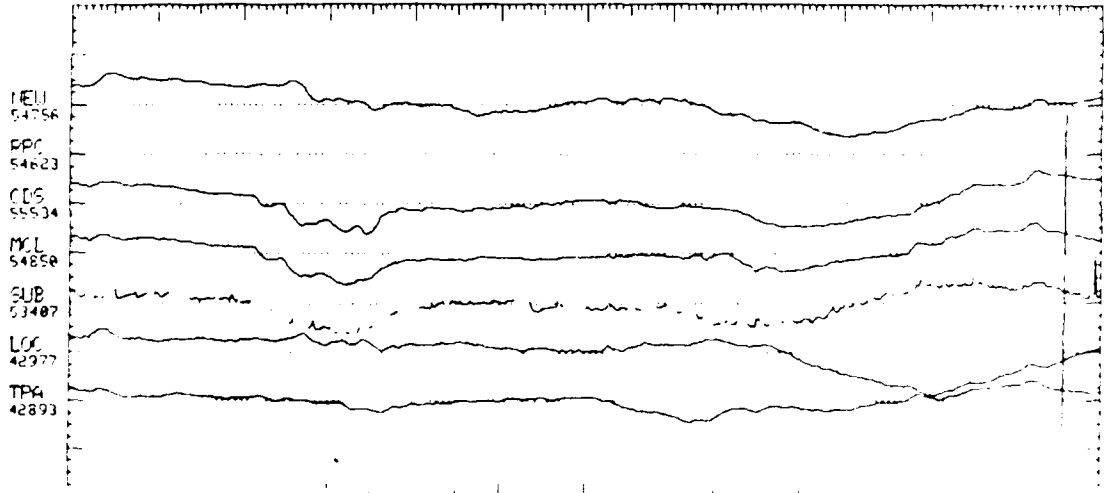
FLIGHTLINE COMPONENT

40 NANOTESLAH MAJOR DIVISION

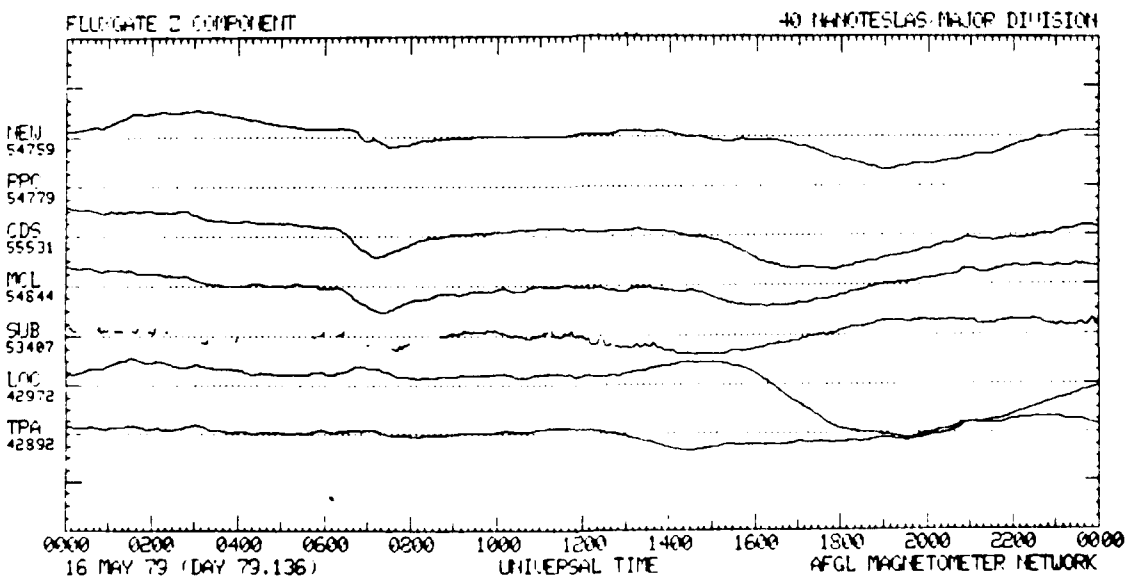
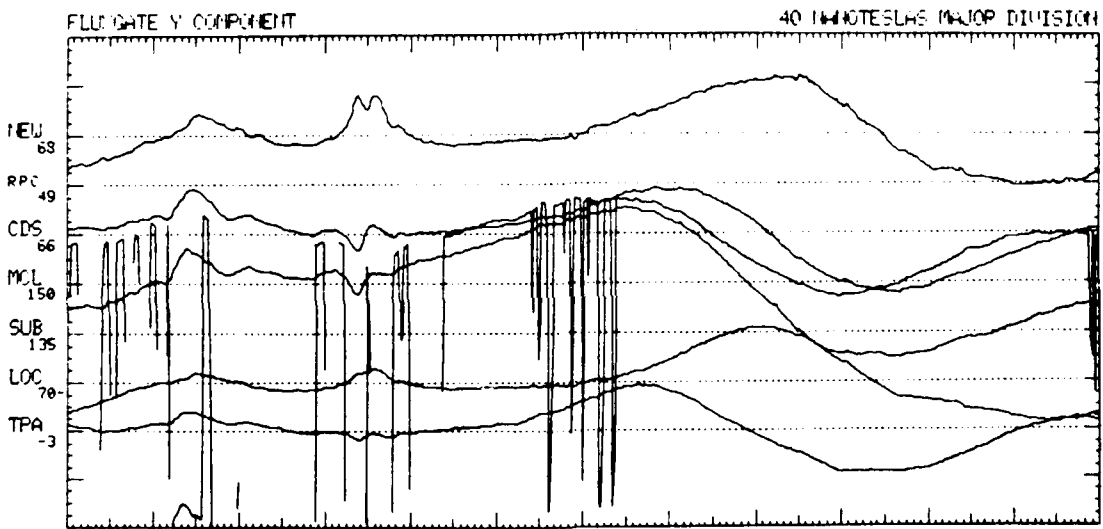
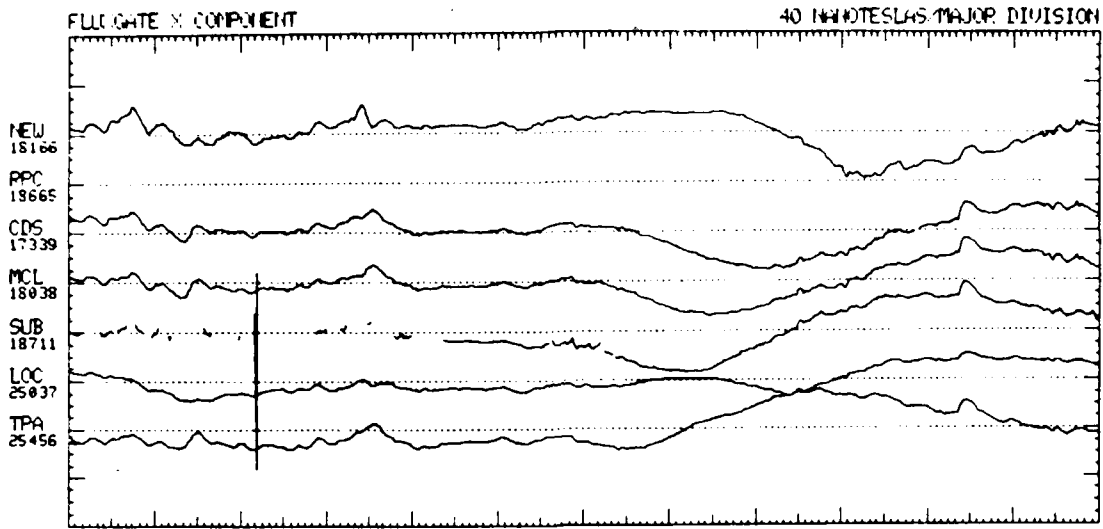


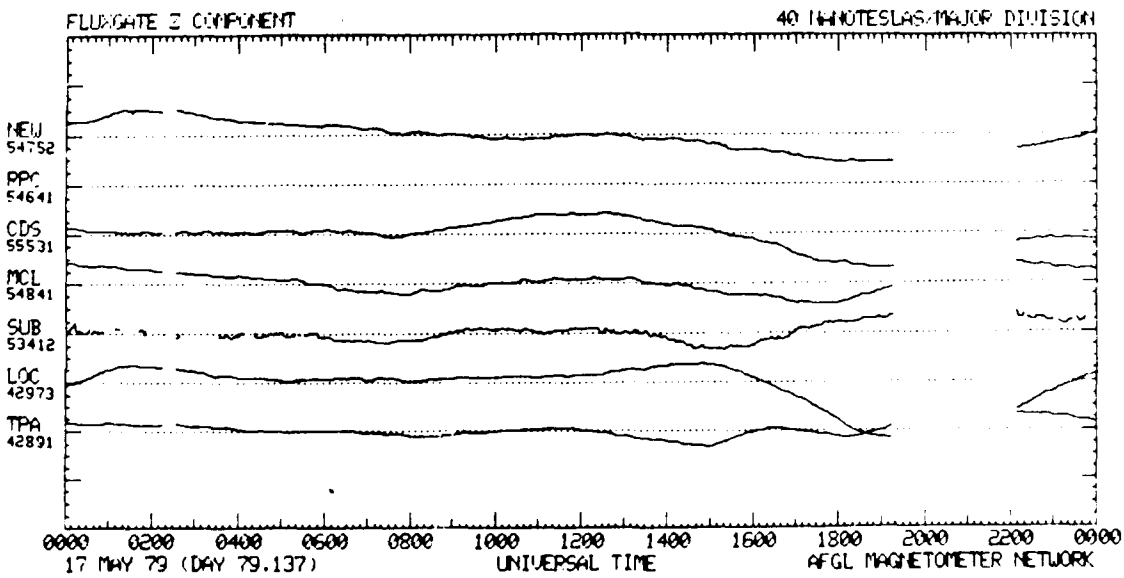
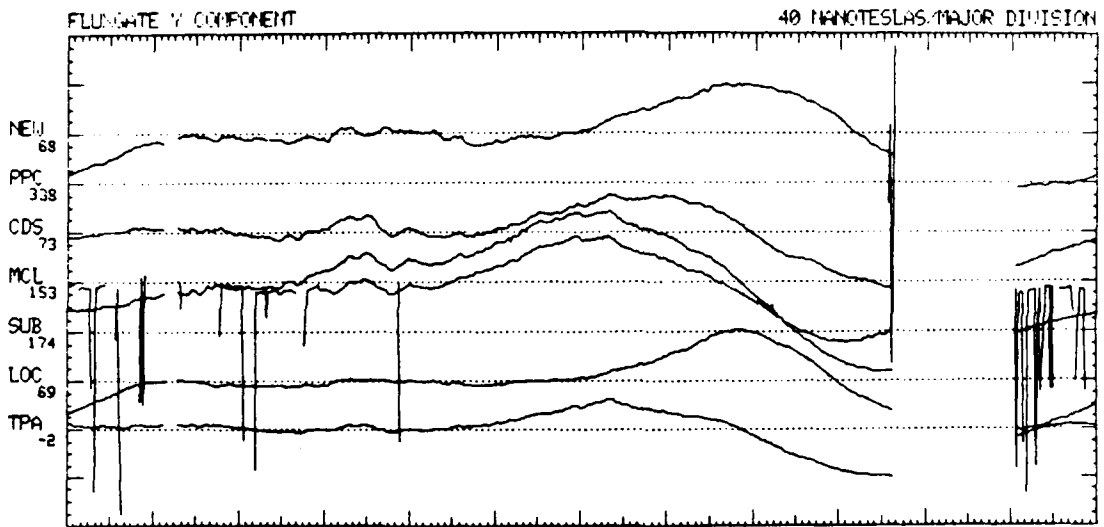
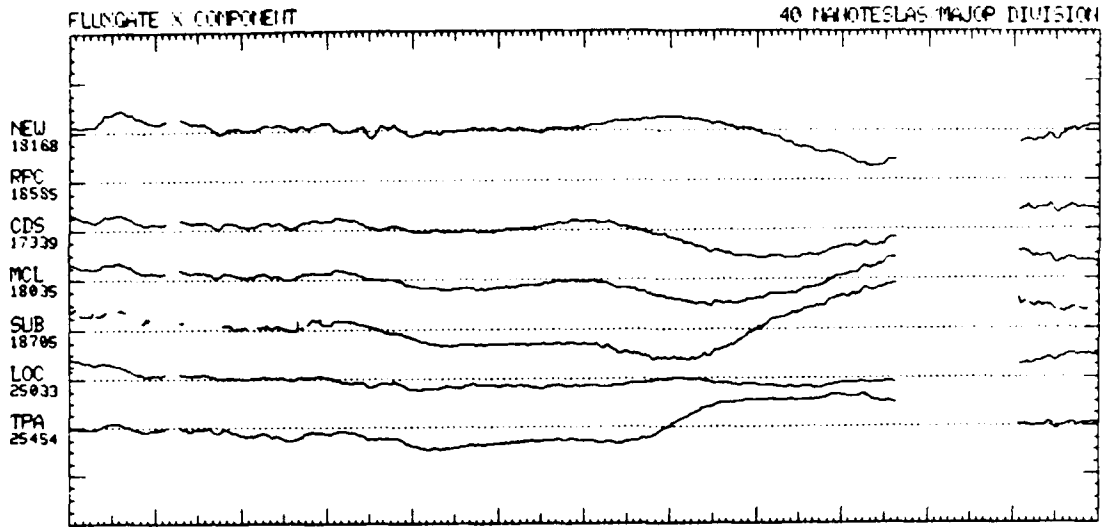
FLIGHTLINE COMPONENT

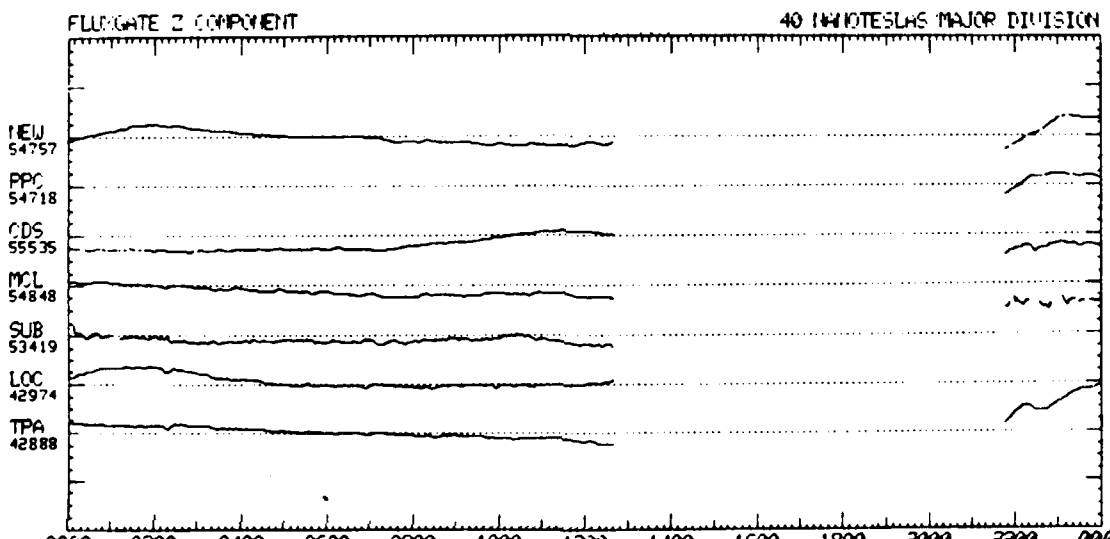
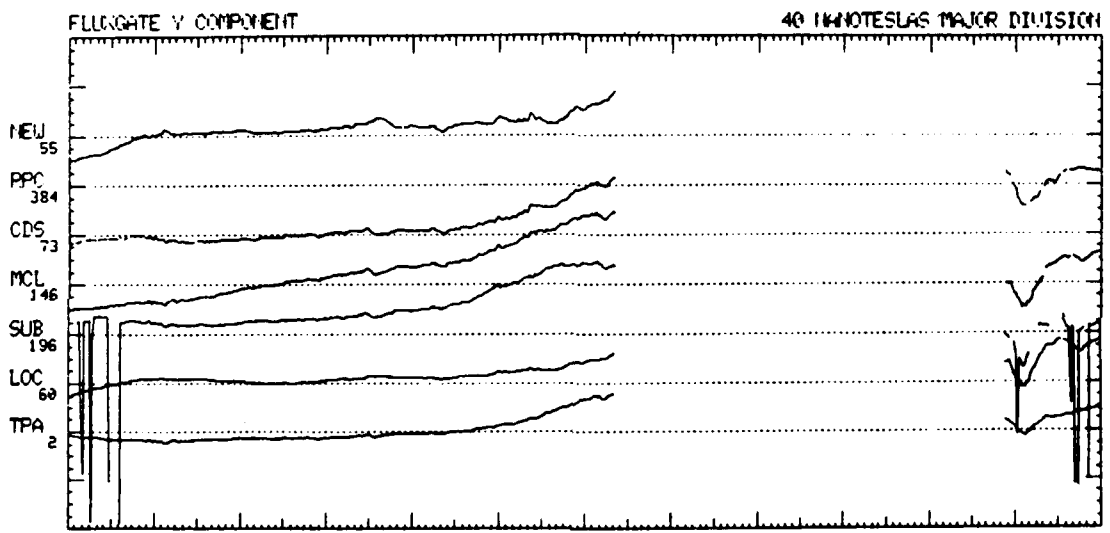
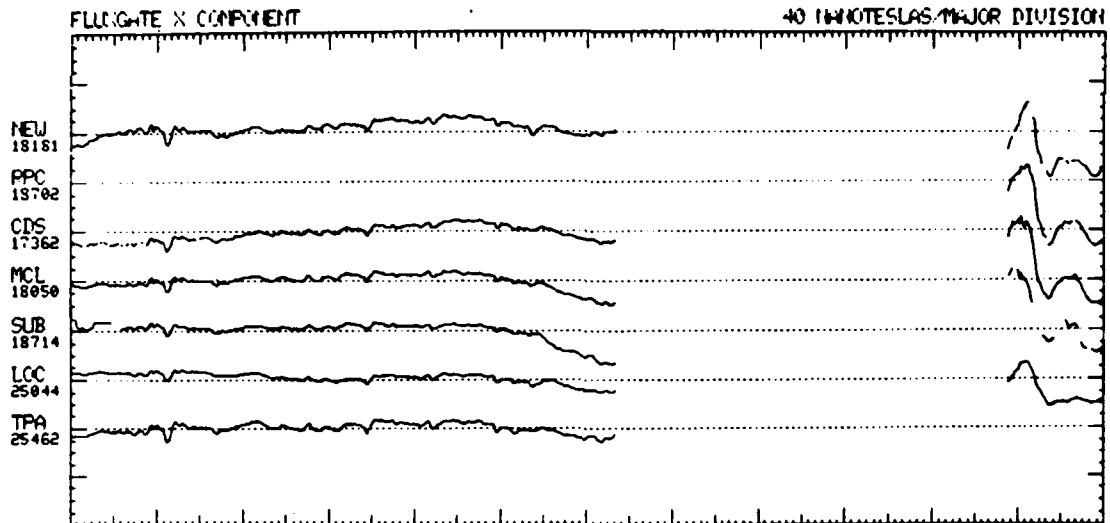
40 NANOTESLAH MAJOR DIVISION



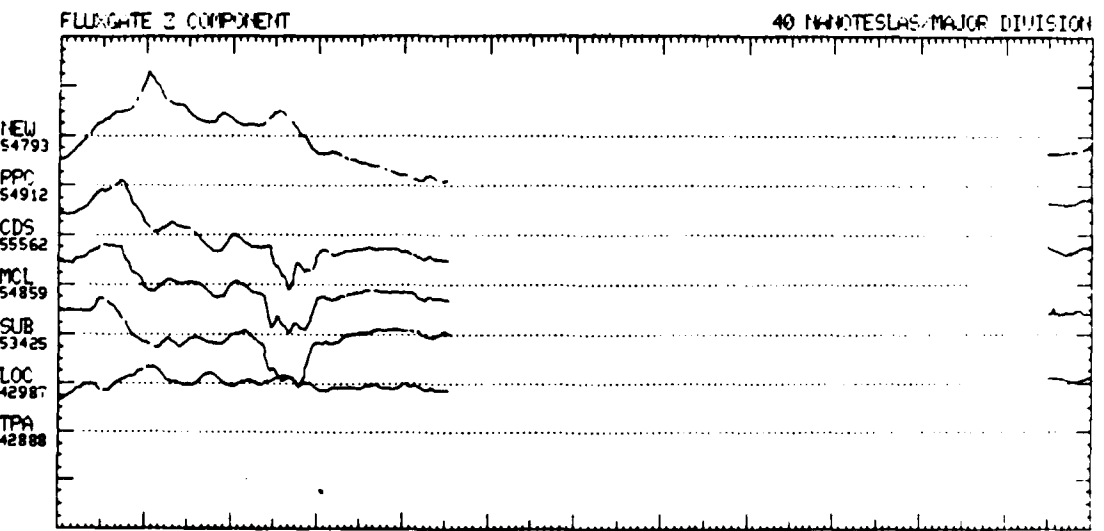
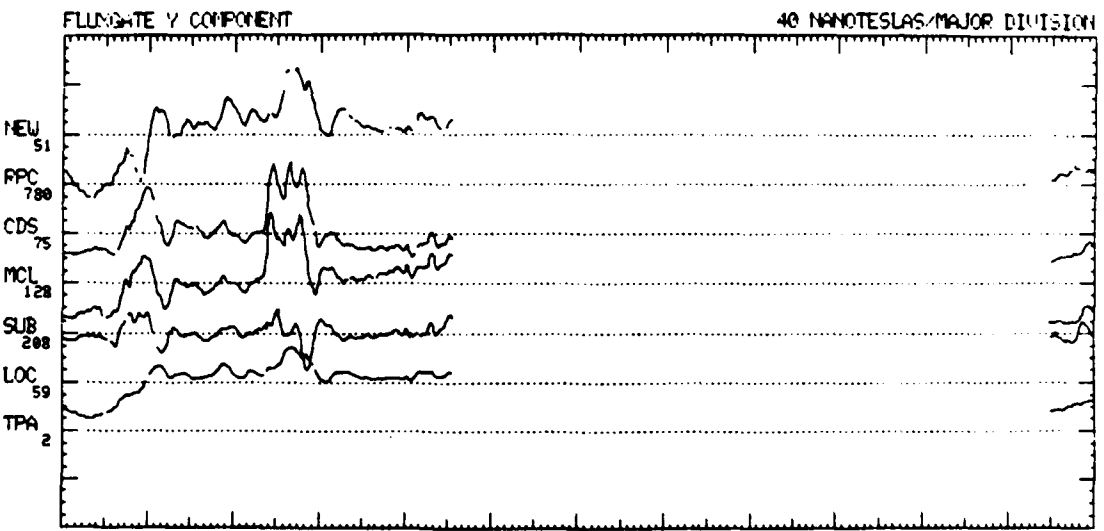
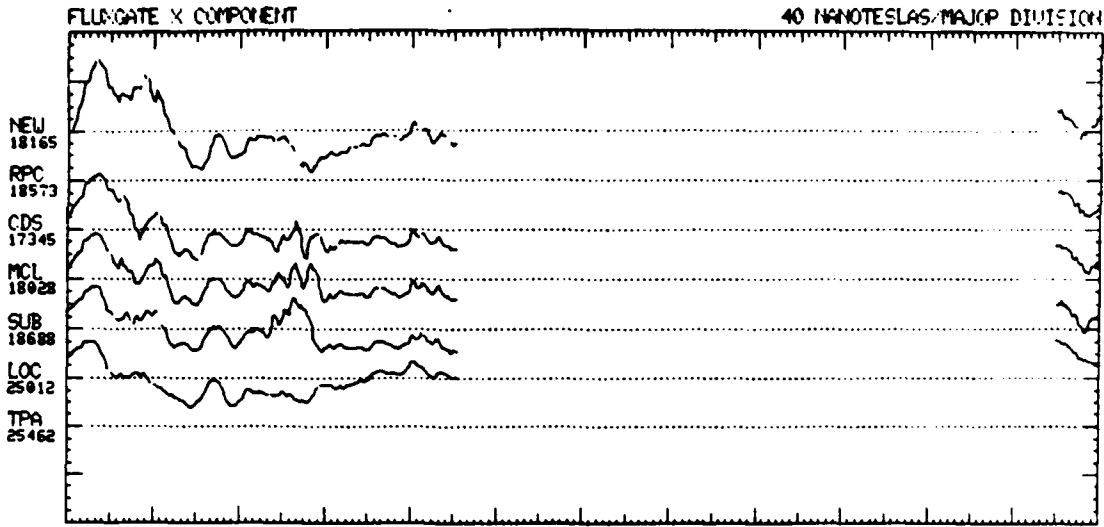
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 15 MAY 79 (DAY 79.135) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



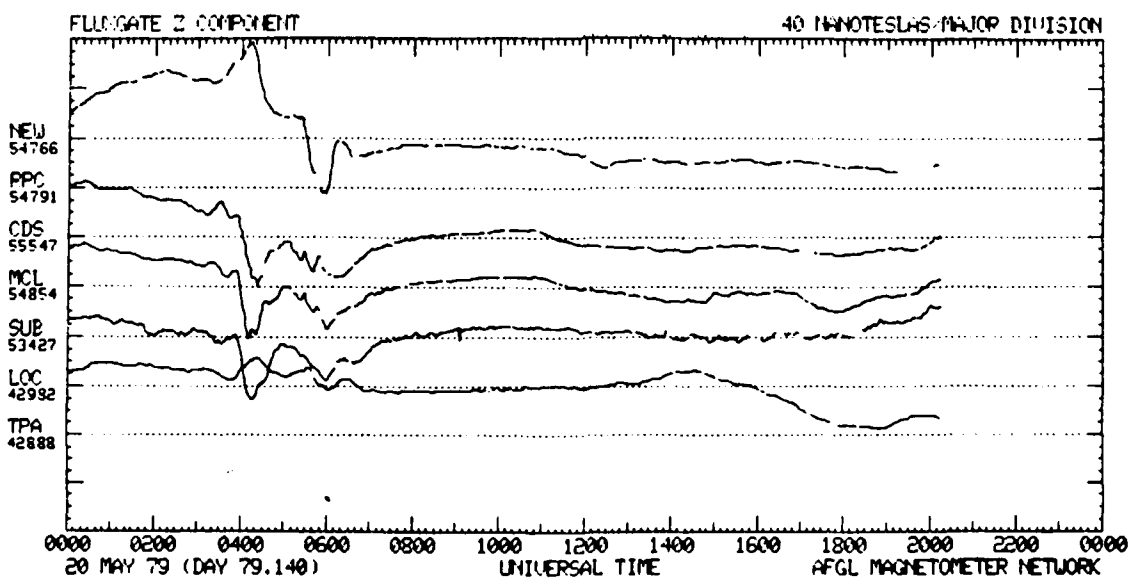
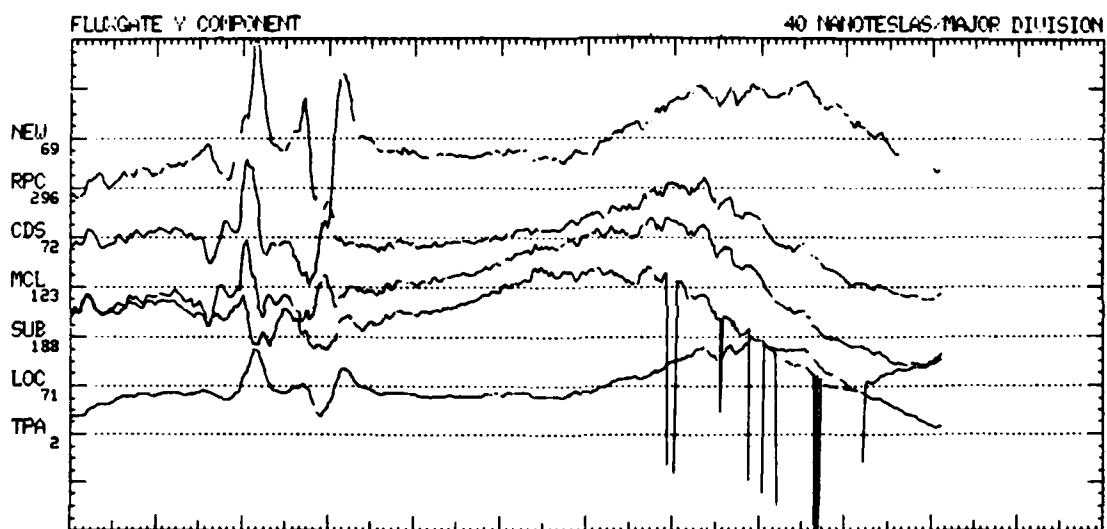
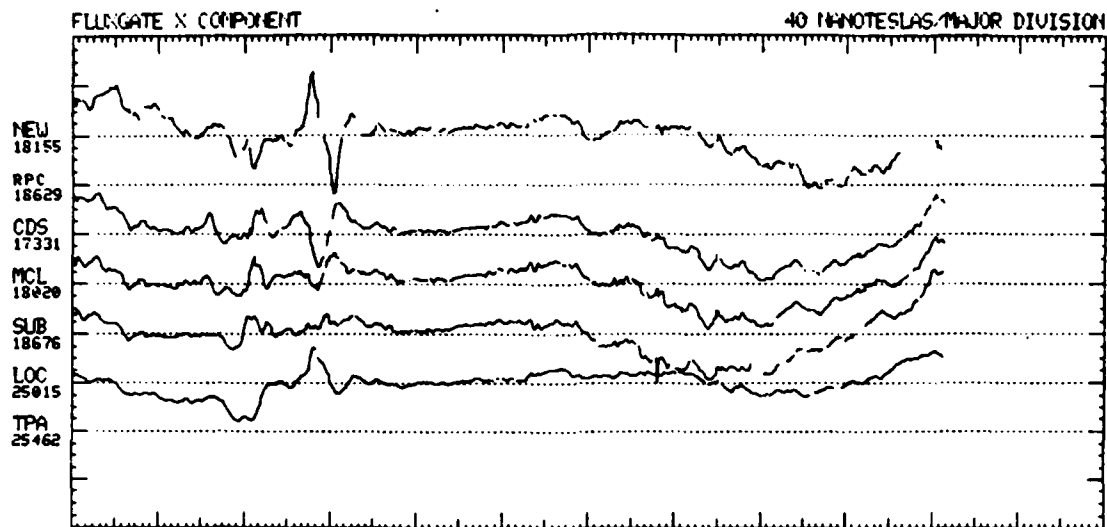




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 18 MAY 79 (DAY 79.138) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

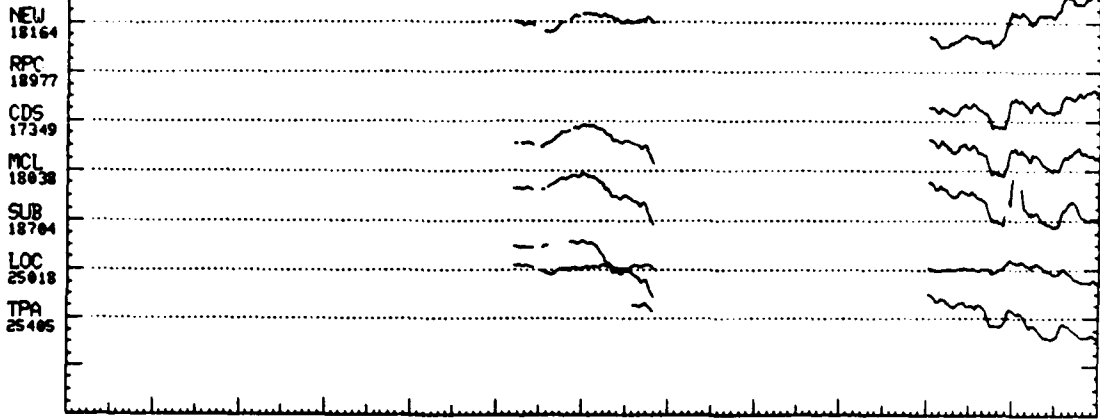


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 19 MAY 79 (DAY 79.139) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



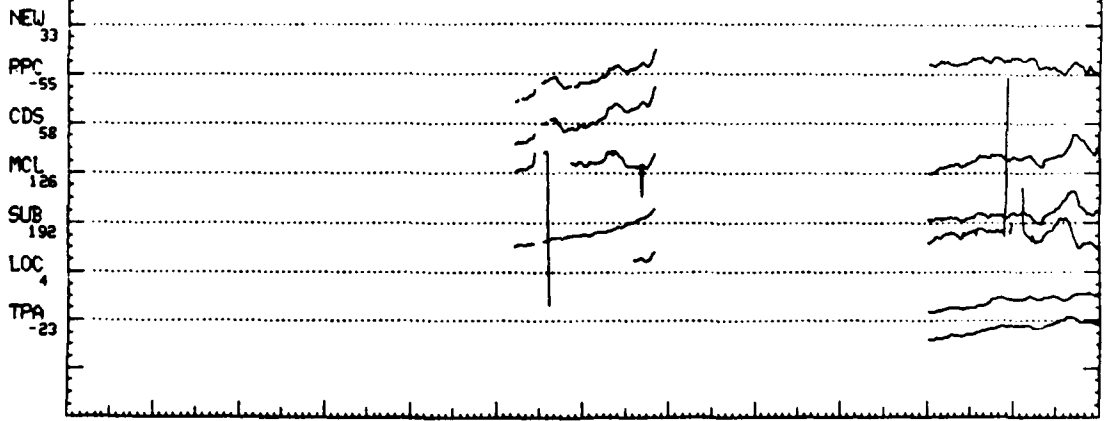
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



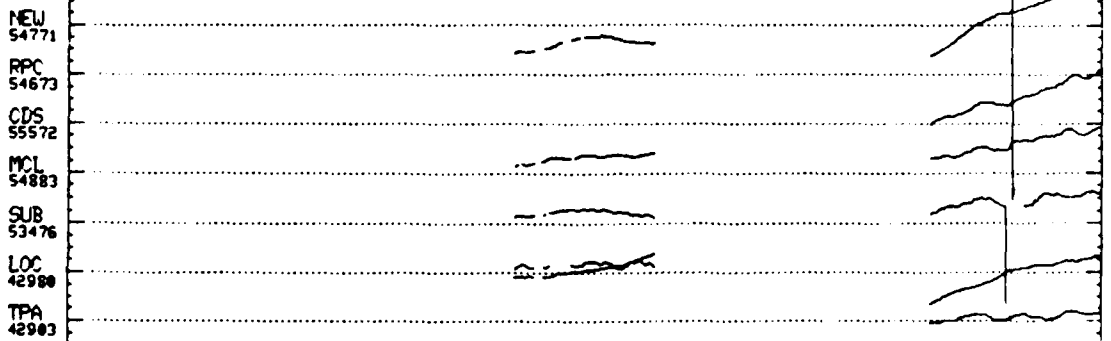
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

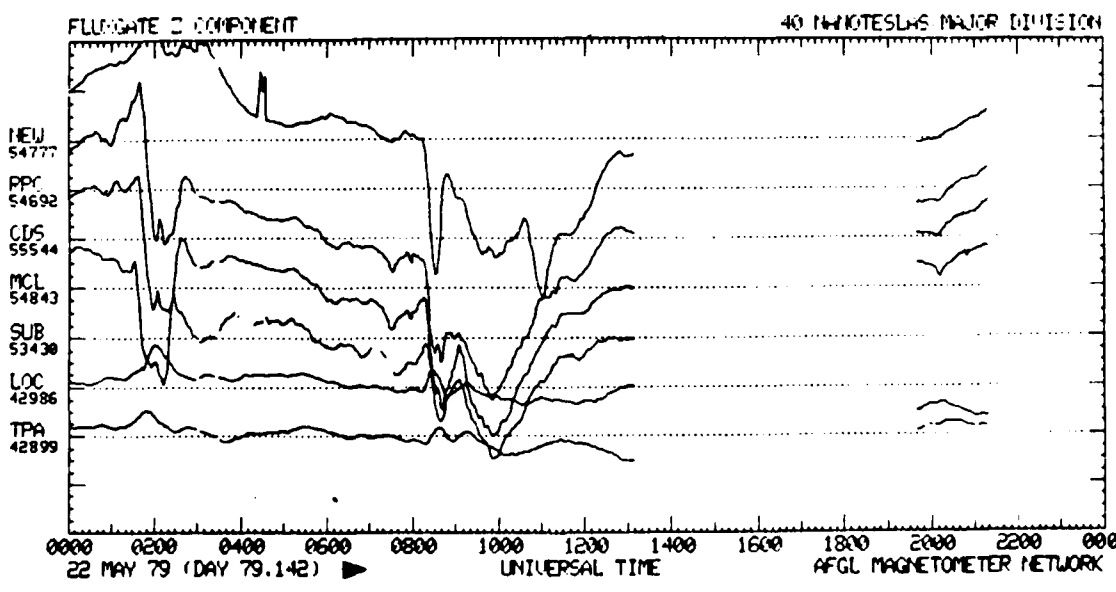
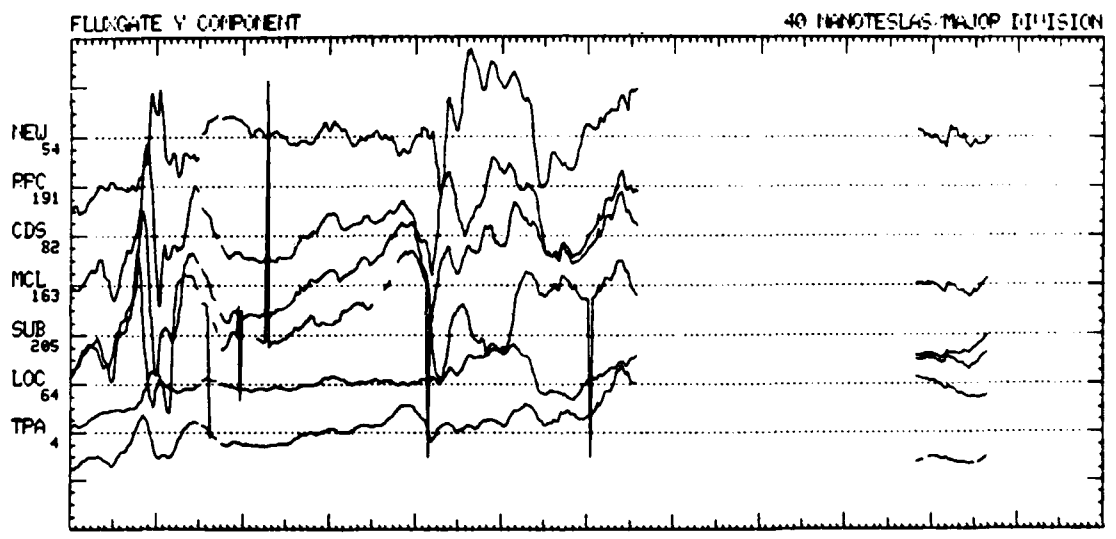
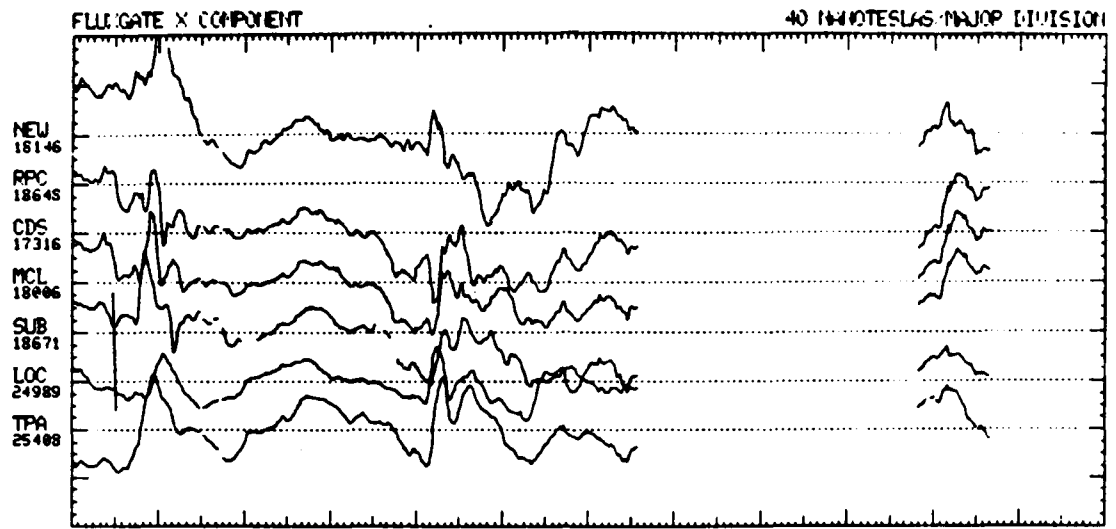


FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 MAY 79 (DAY 79.141) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 22 MAY 79 (DAY 79.142) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18146

RPC
18648

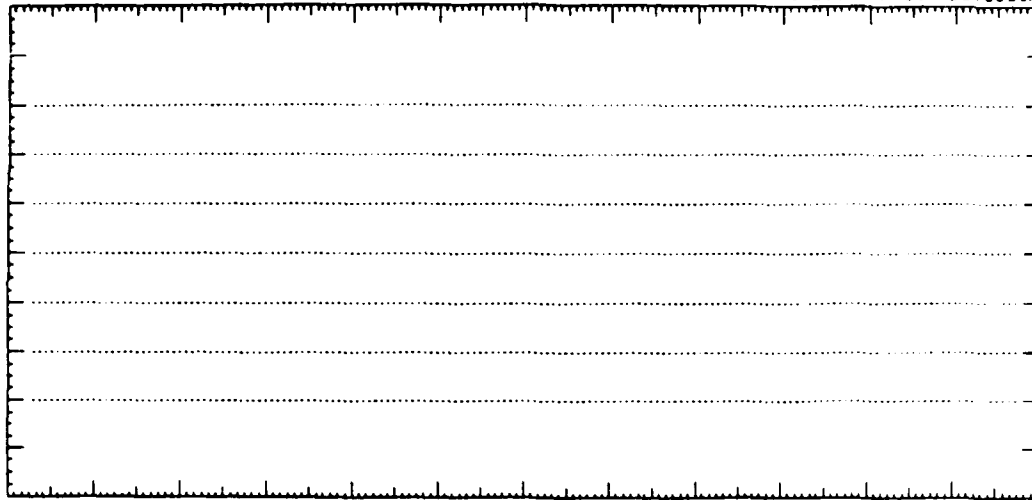
CDS
17316

MCL
15006

SUB
18671

LOC
24989

TPA
25408



FLUNGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54

RPC
191

CDS
82

MCL
163

SUB
205

LOC
64

TPA
4



FLUNGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54777

RPC
54692

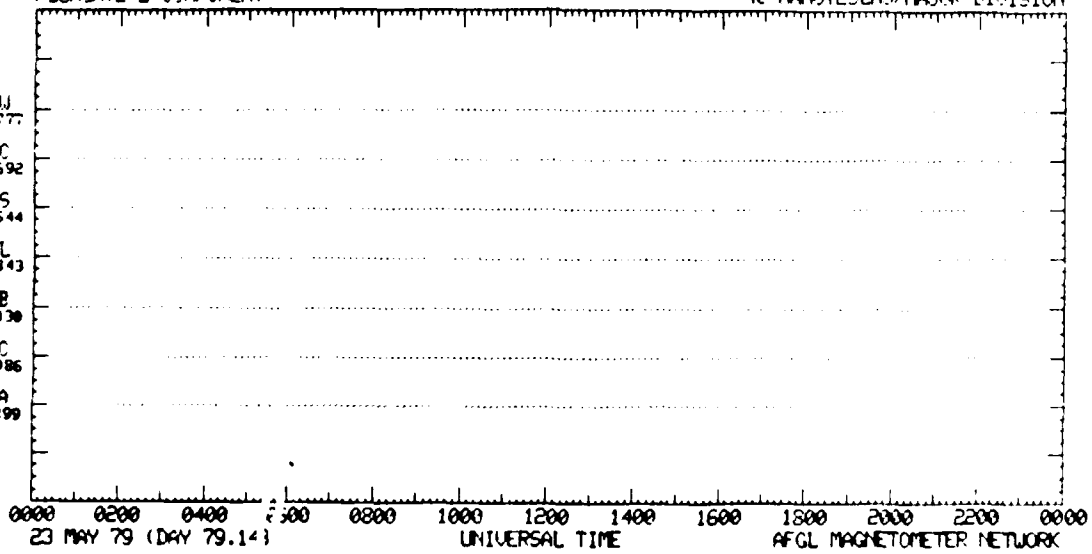
CDS
55544

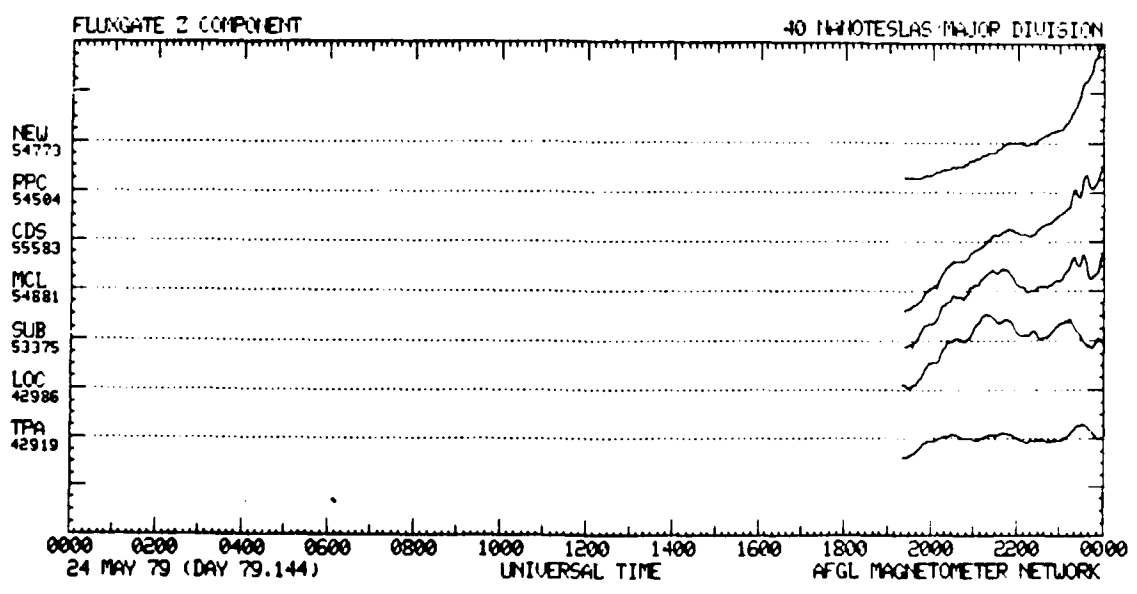
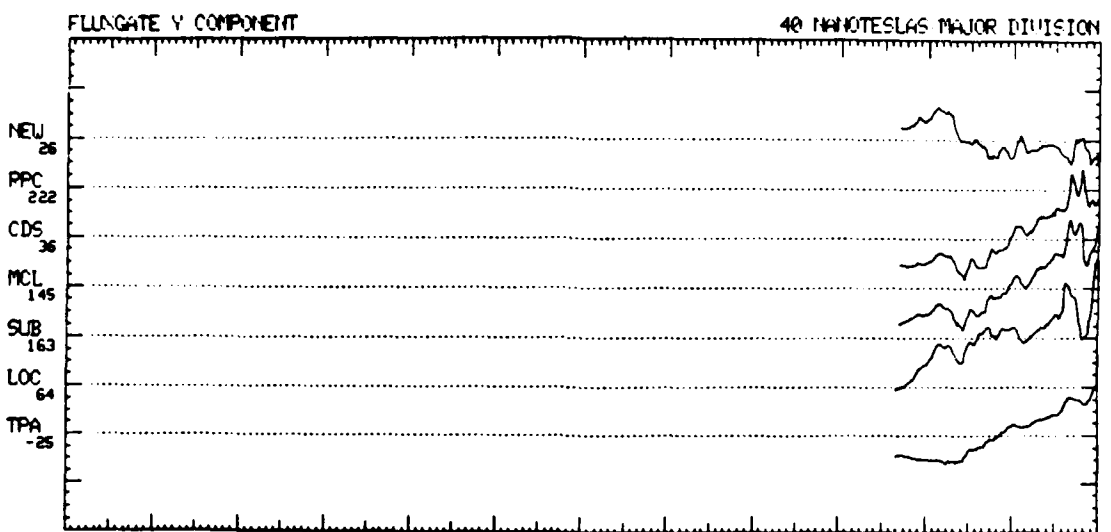
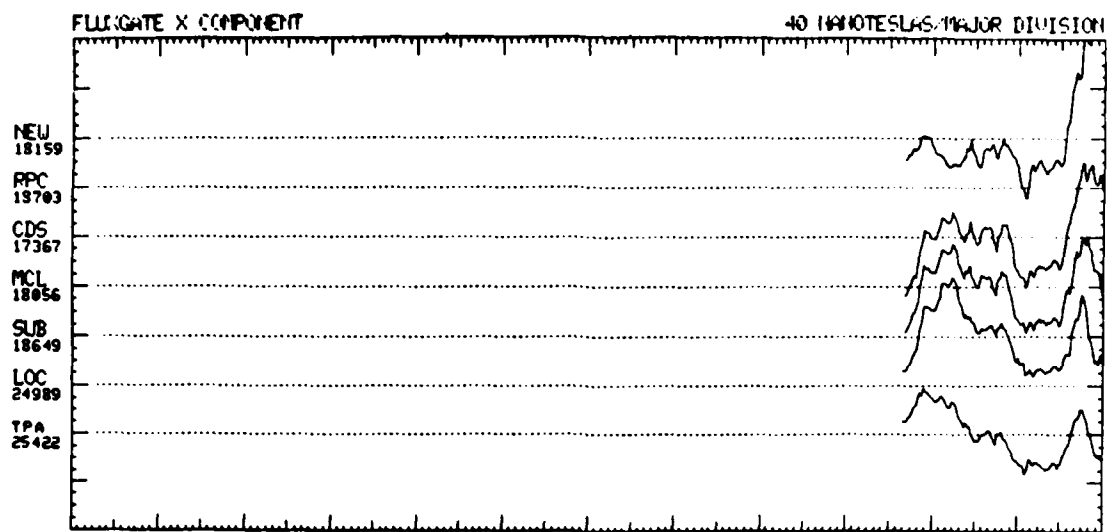
MCL
54843

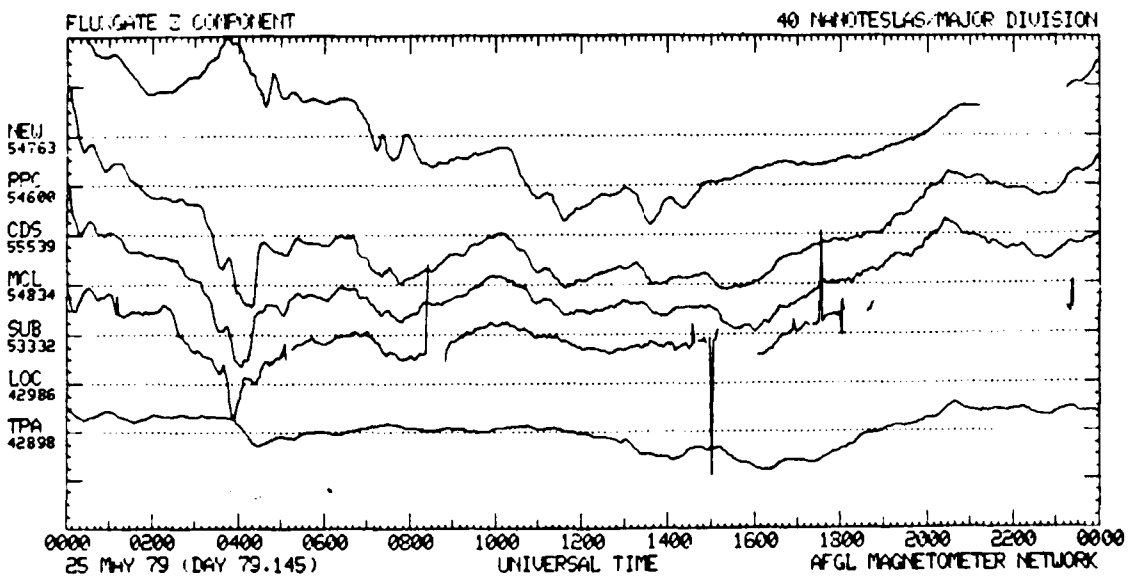
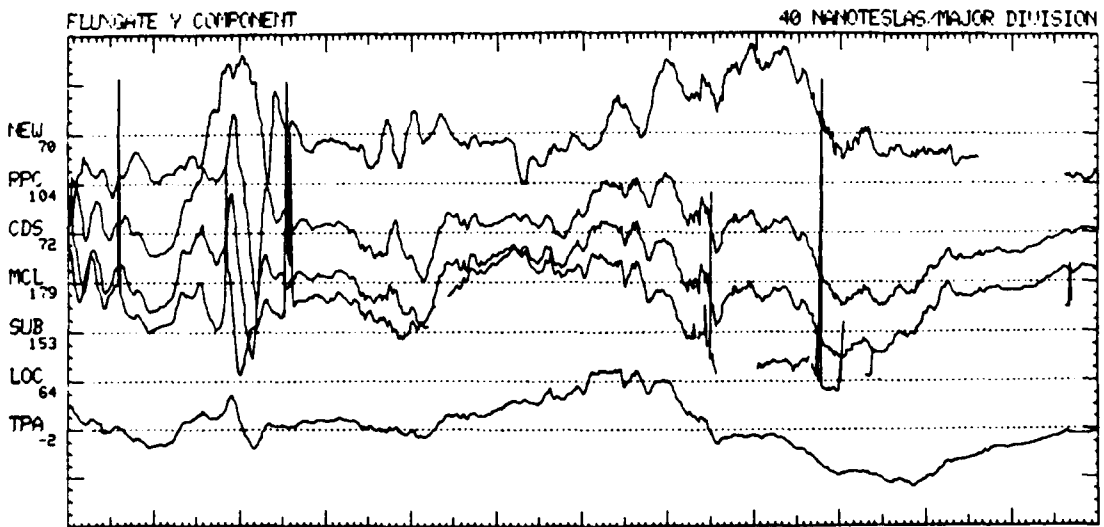
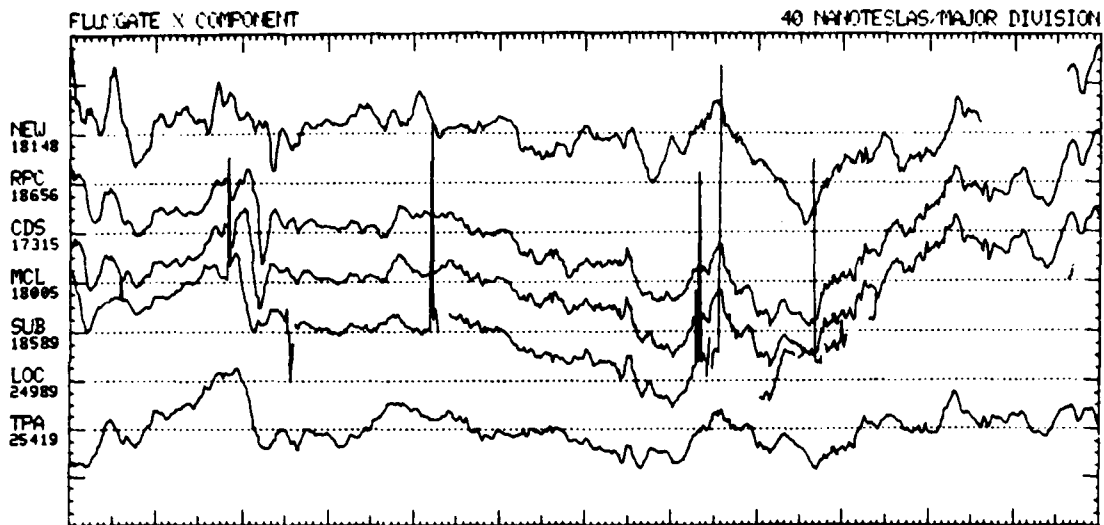
SUB
53430

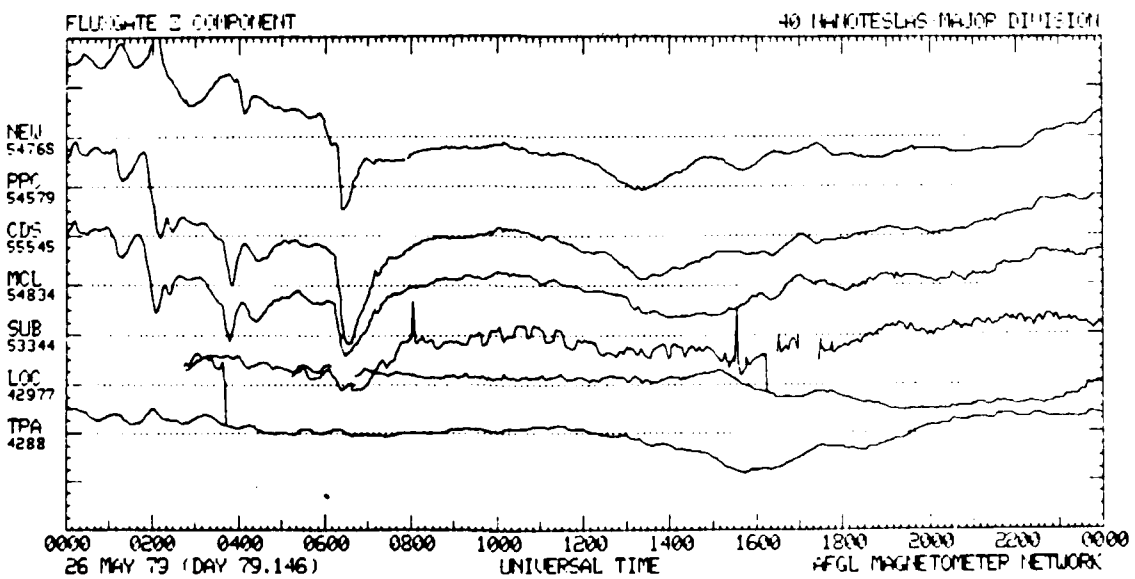
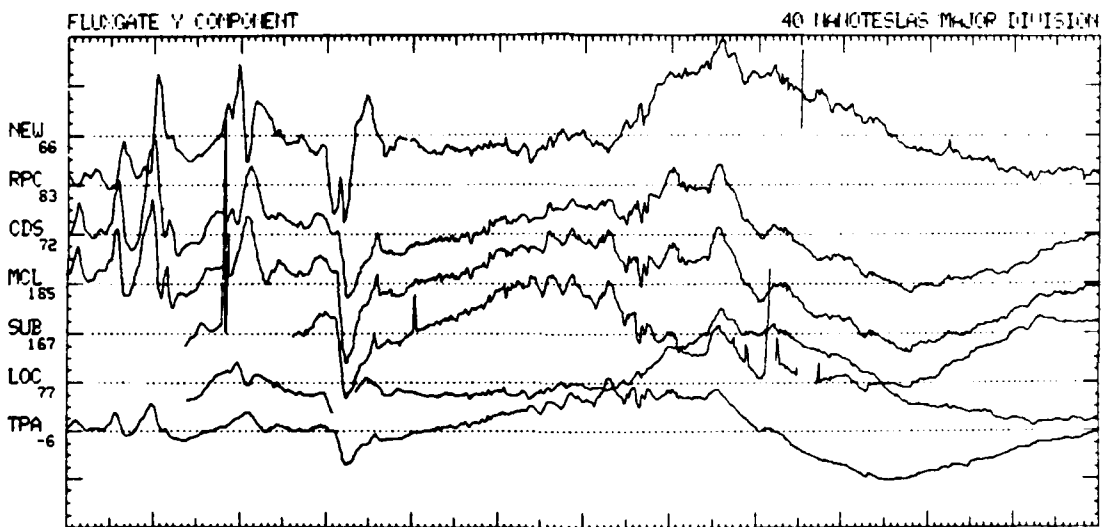
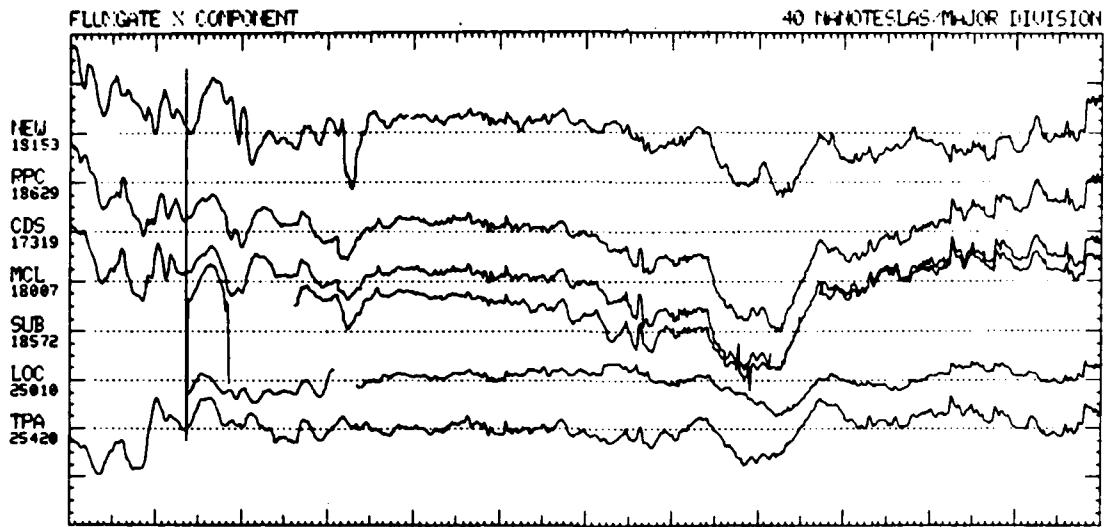
LOC
42986

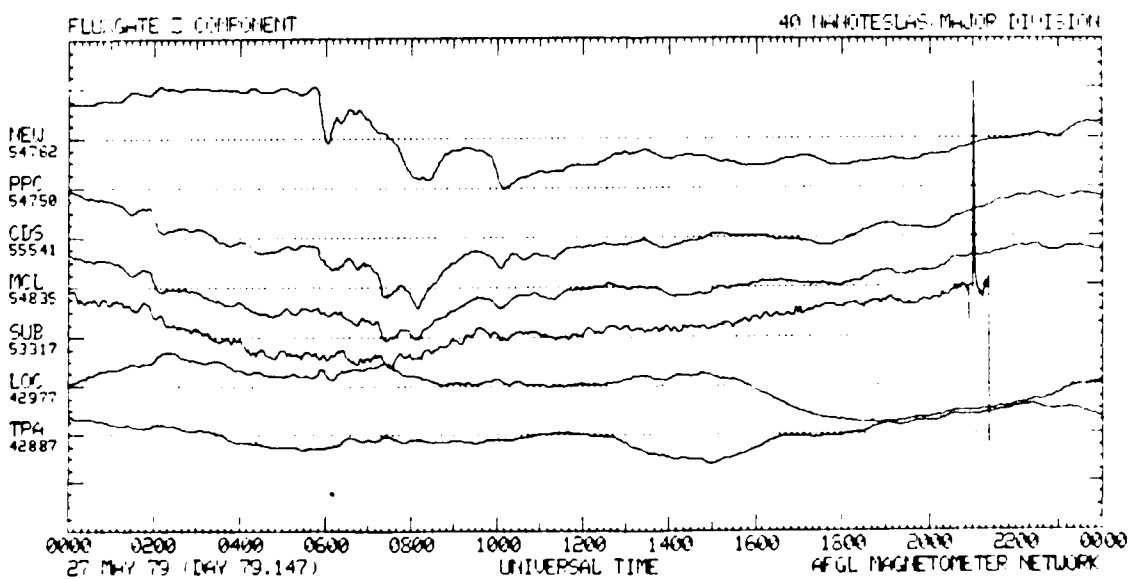
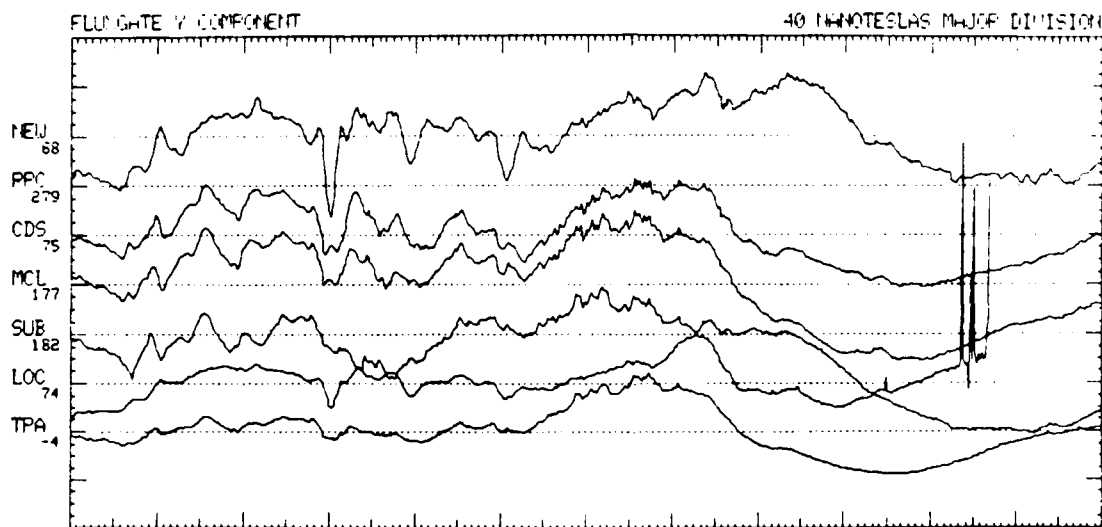
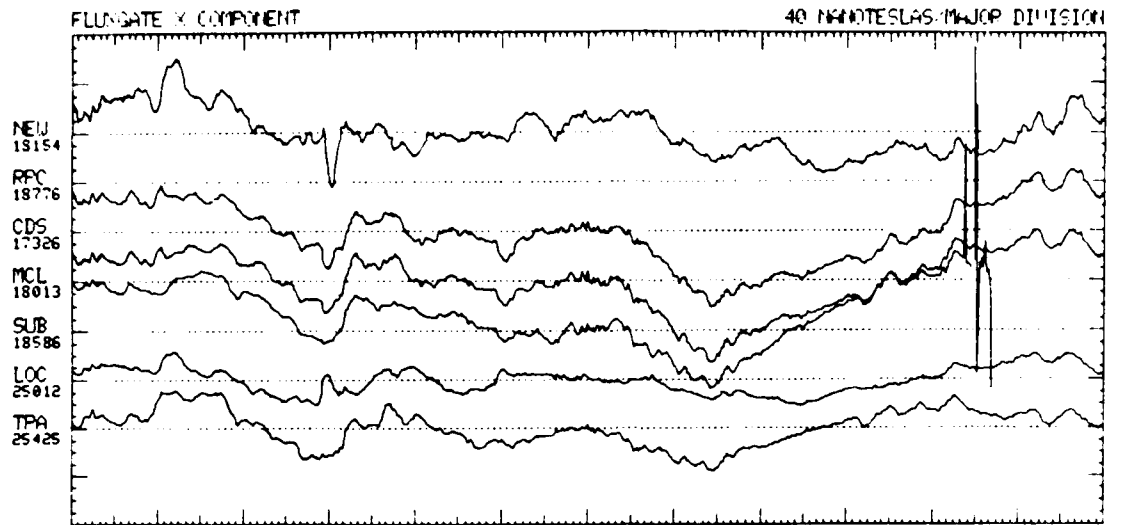
TPA
42809

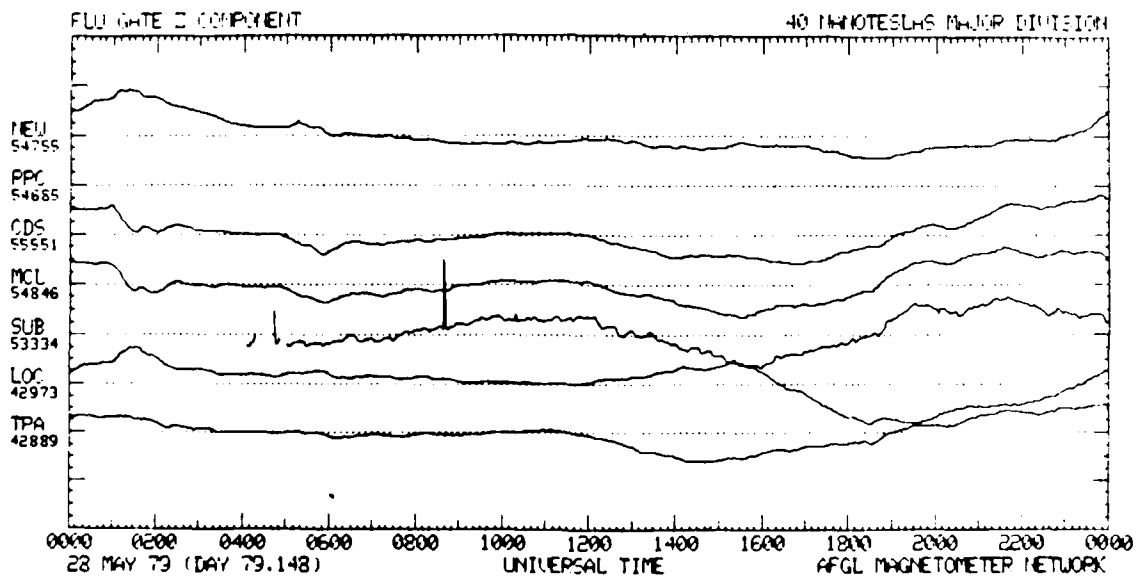
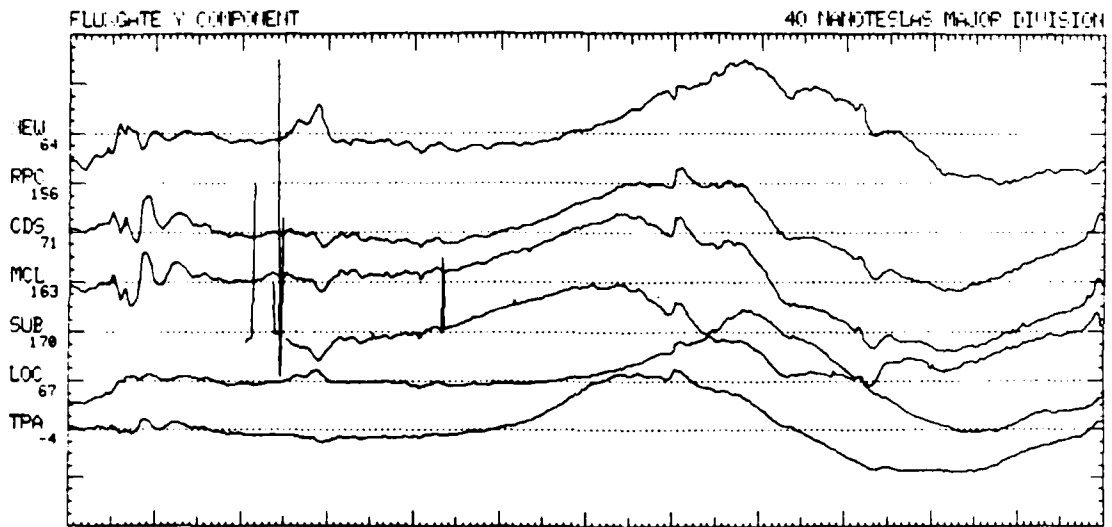
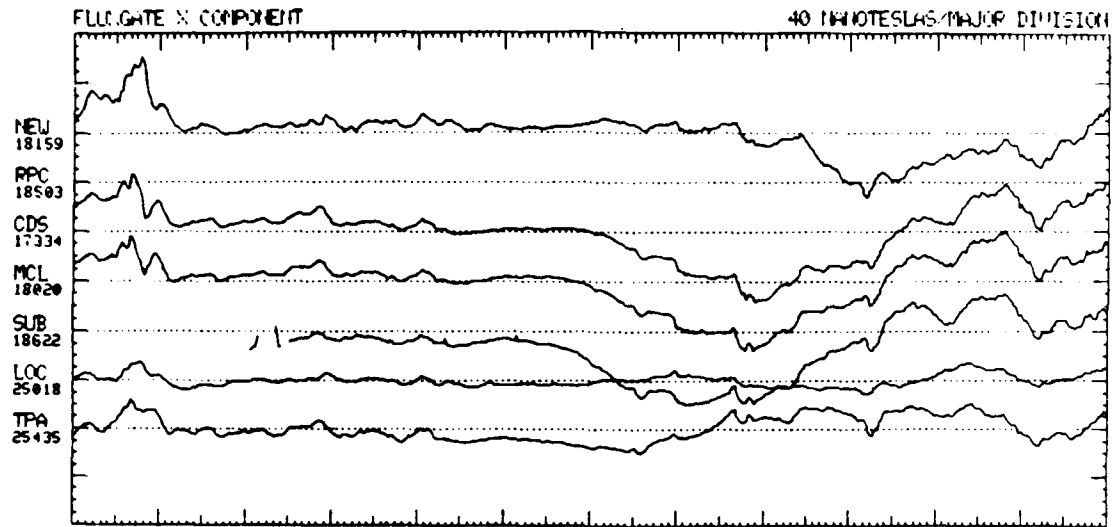


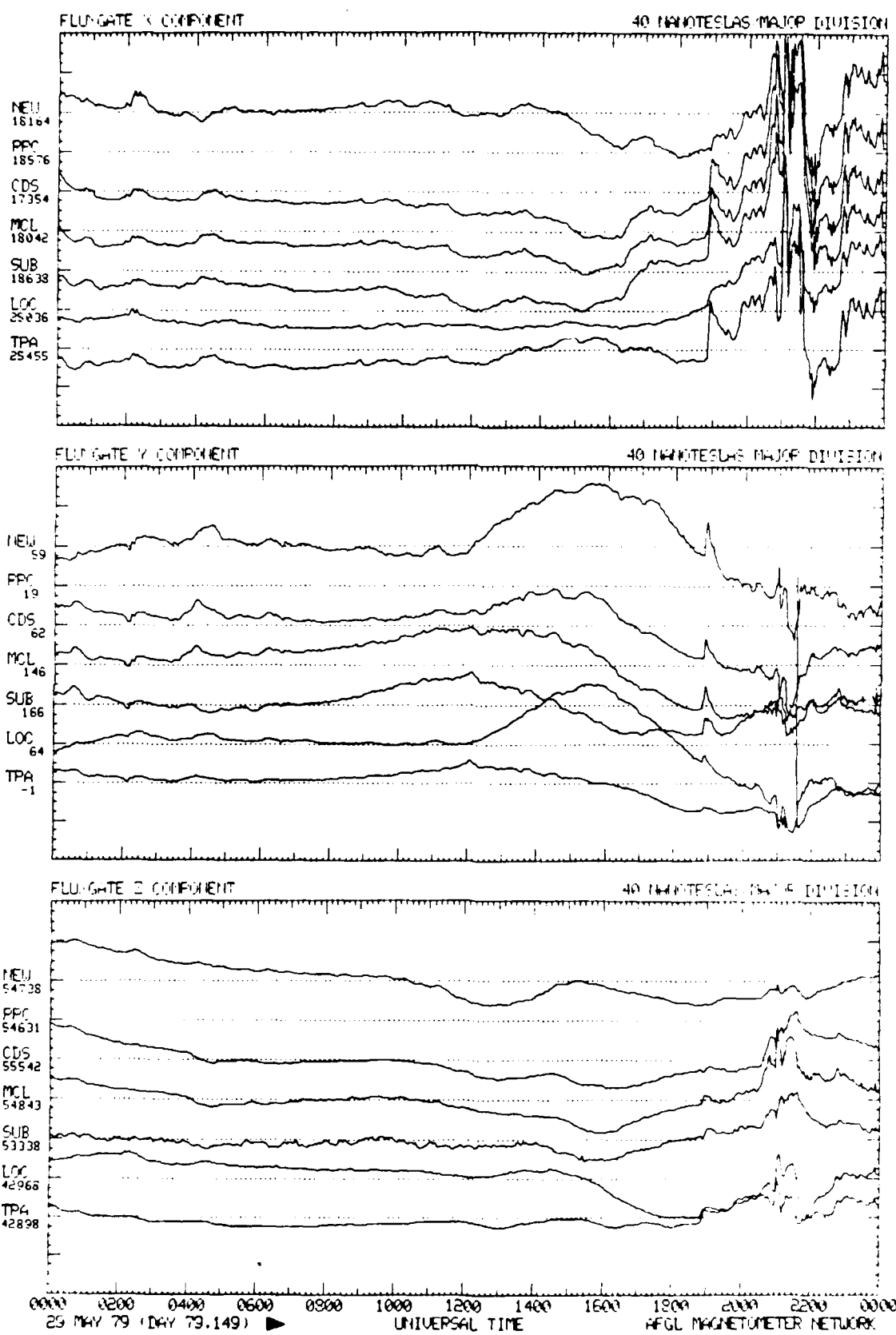


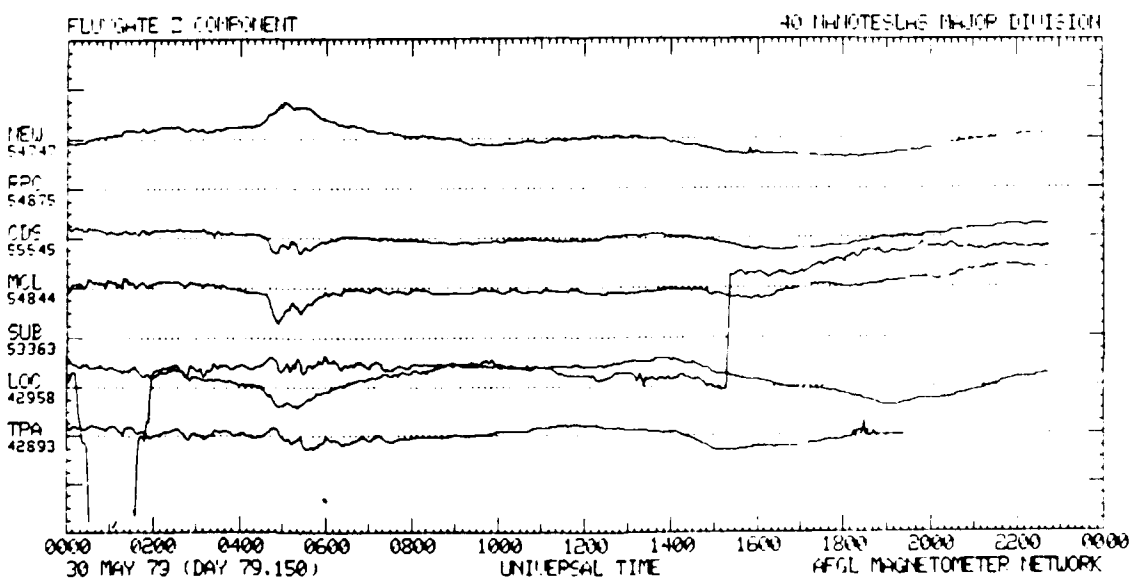
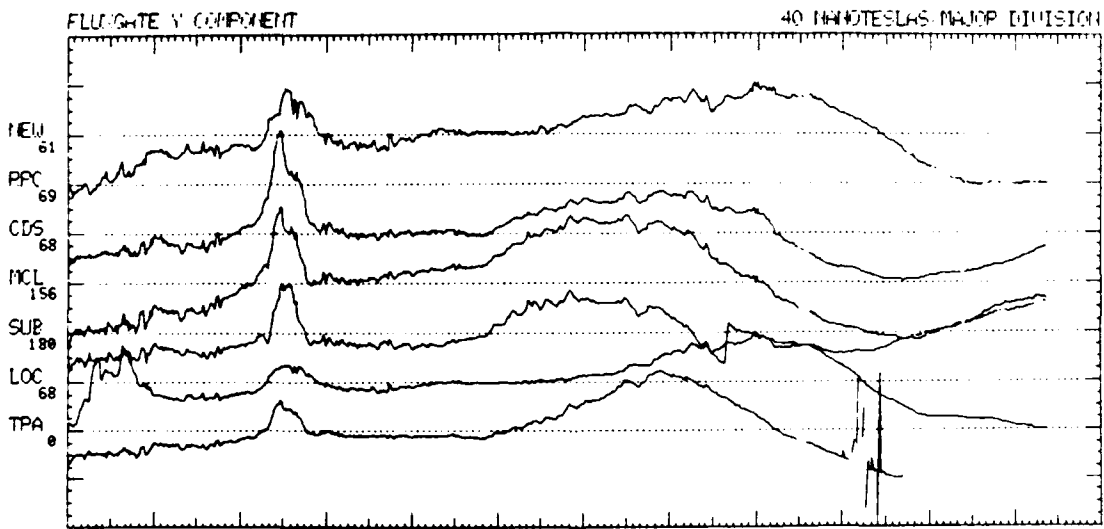
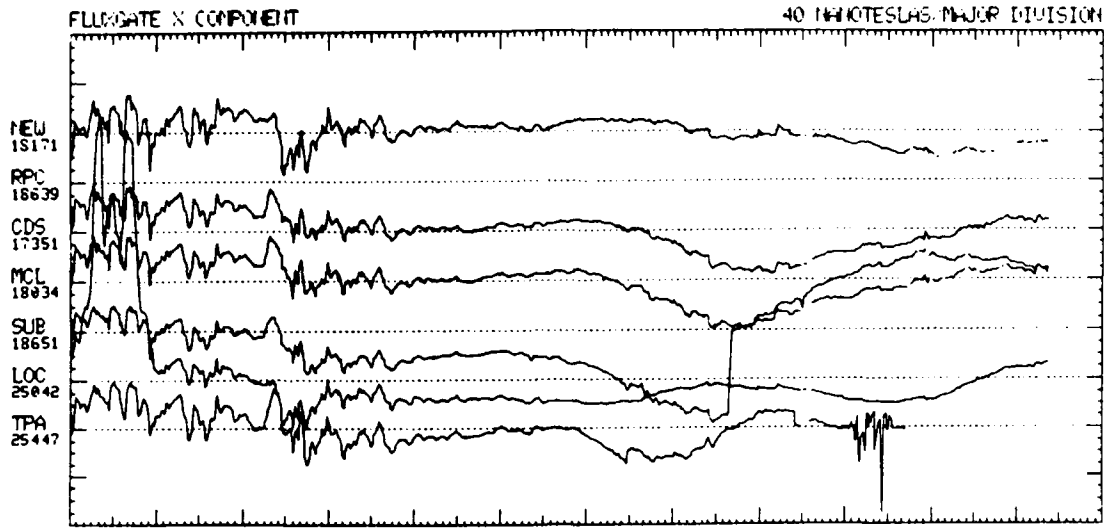




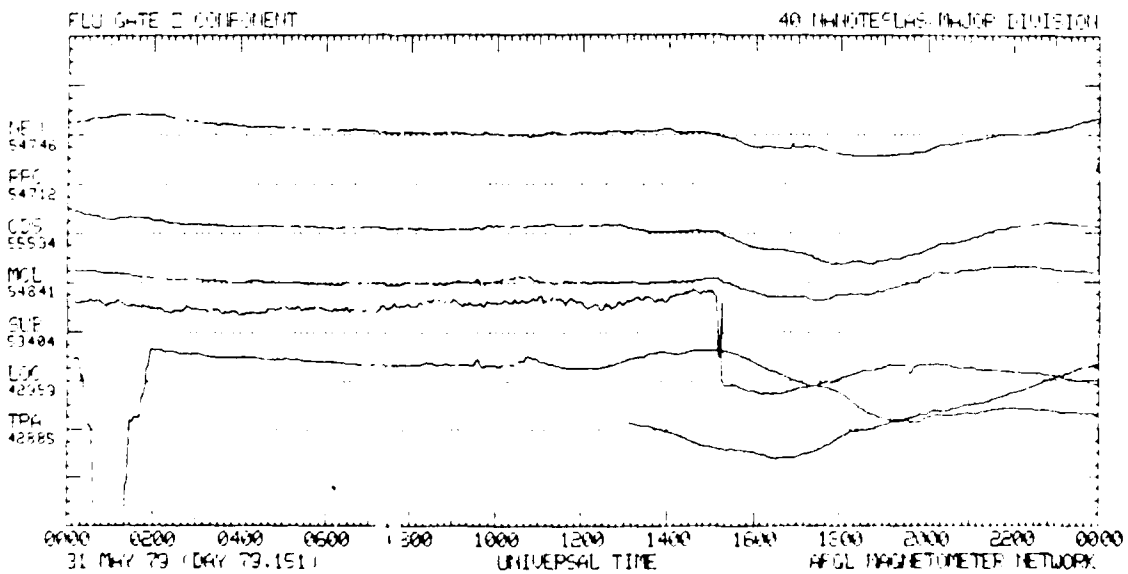
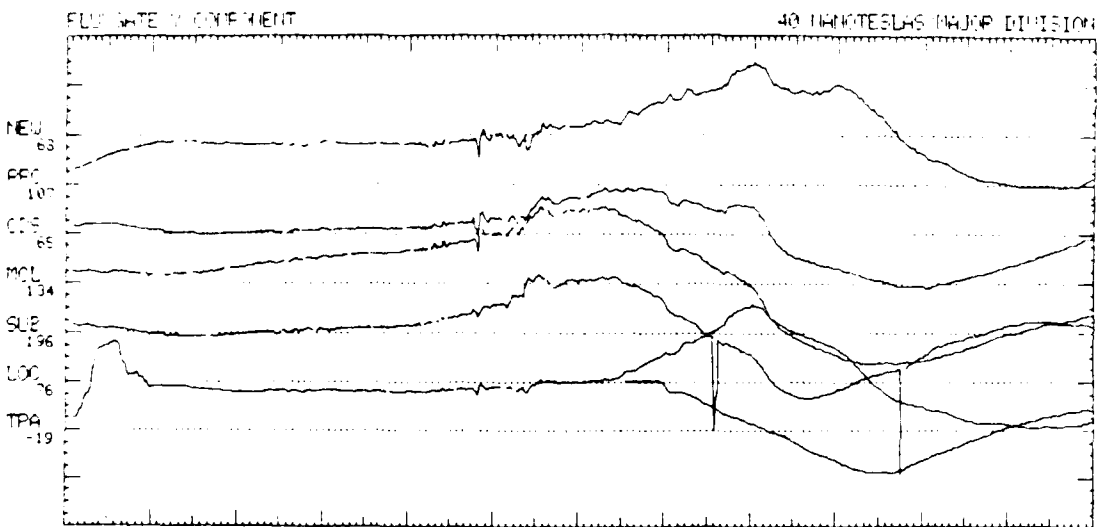
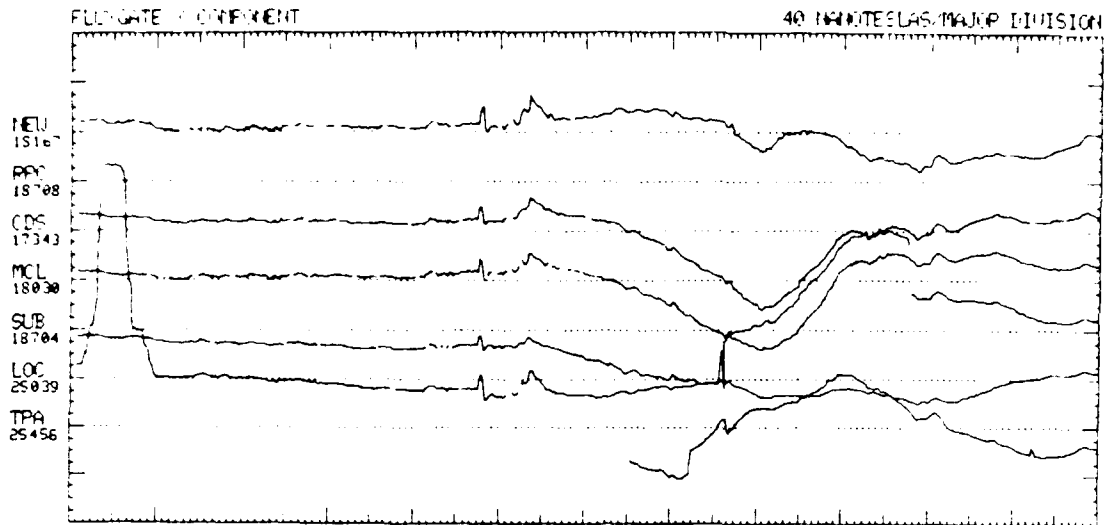


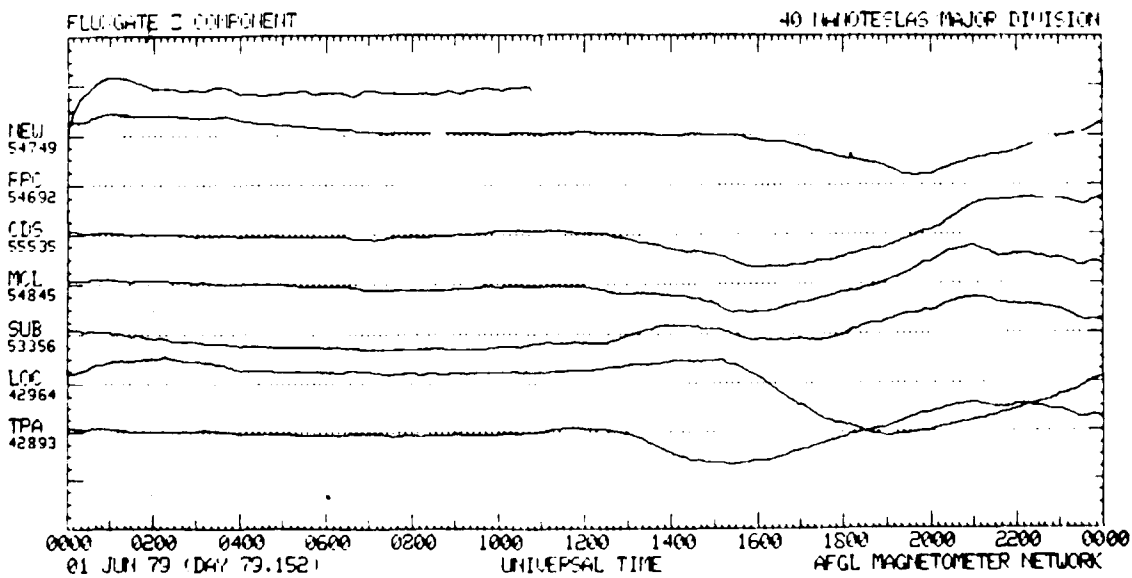
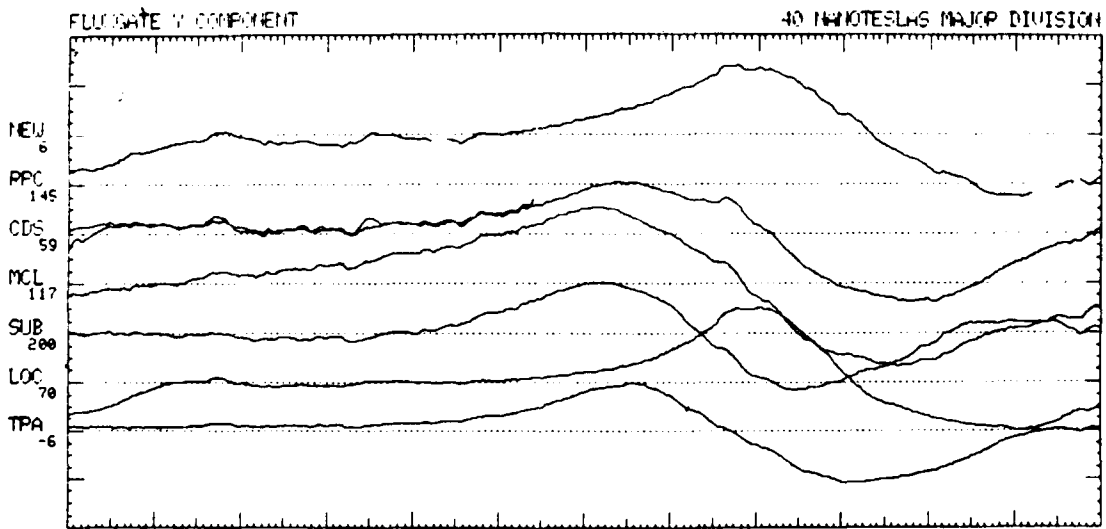
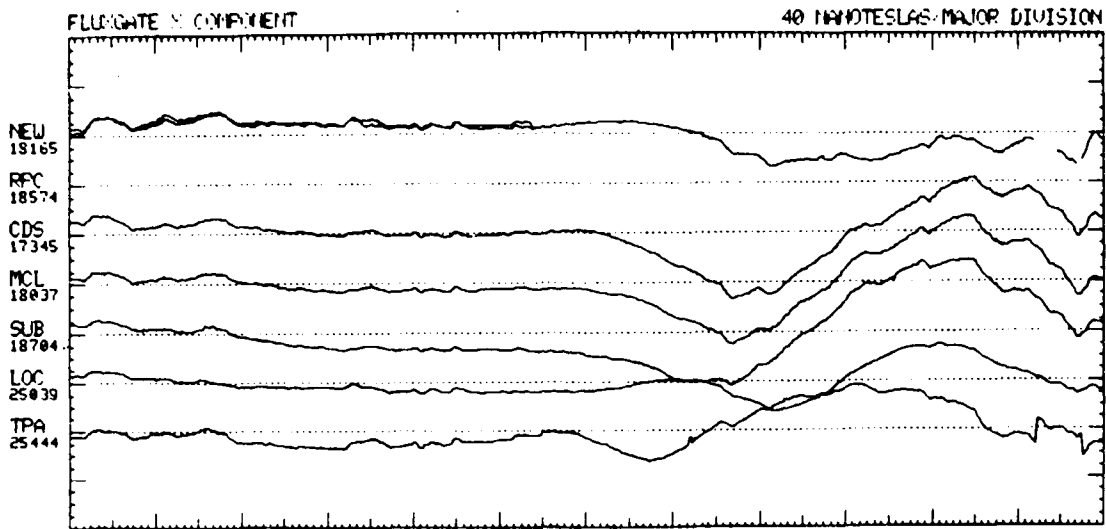






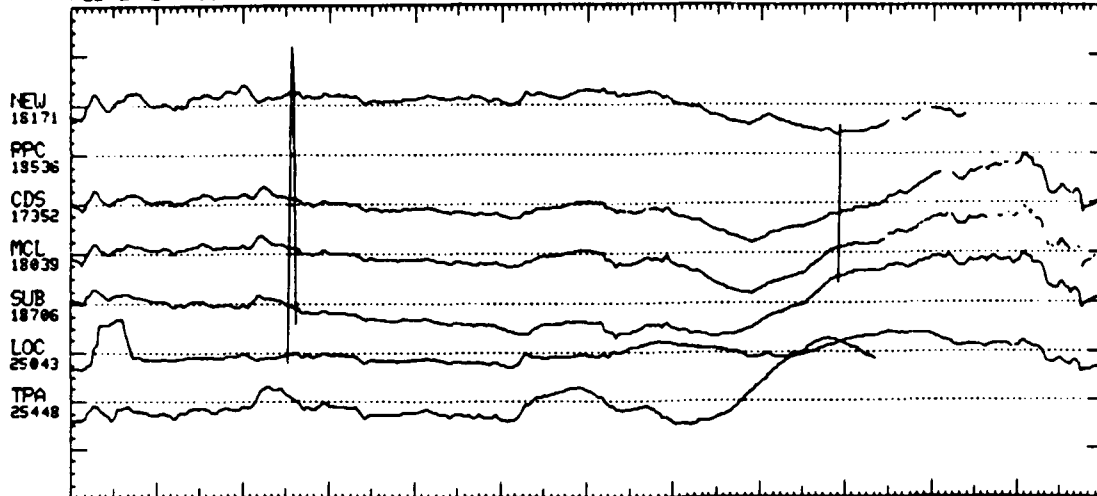
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 30 MAY 79 (DAY 79.150) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





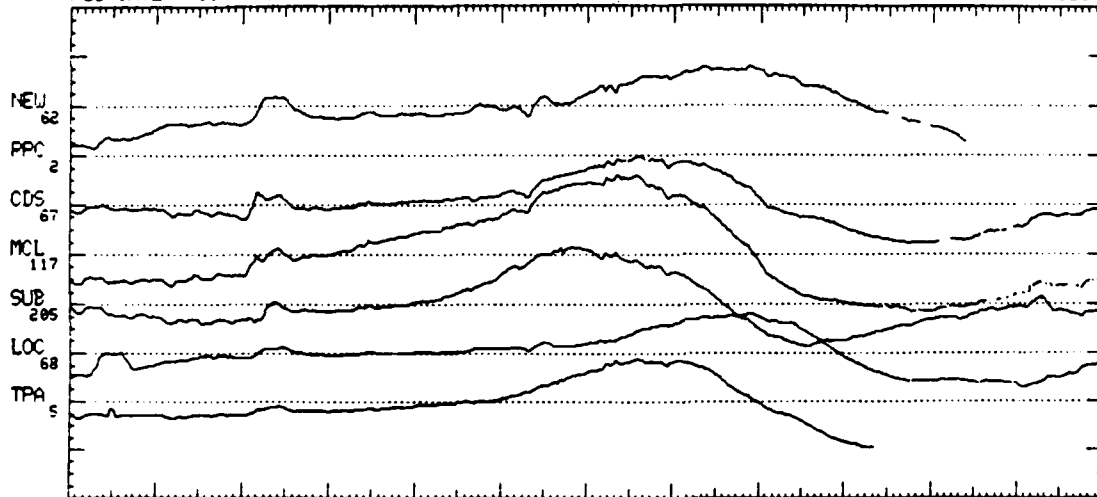
FLIGHT X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



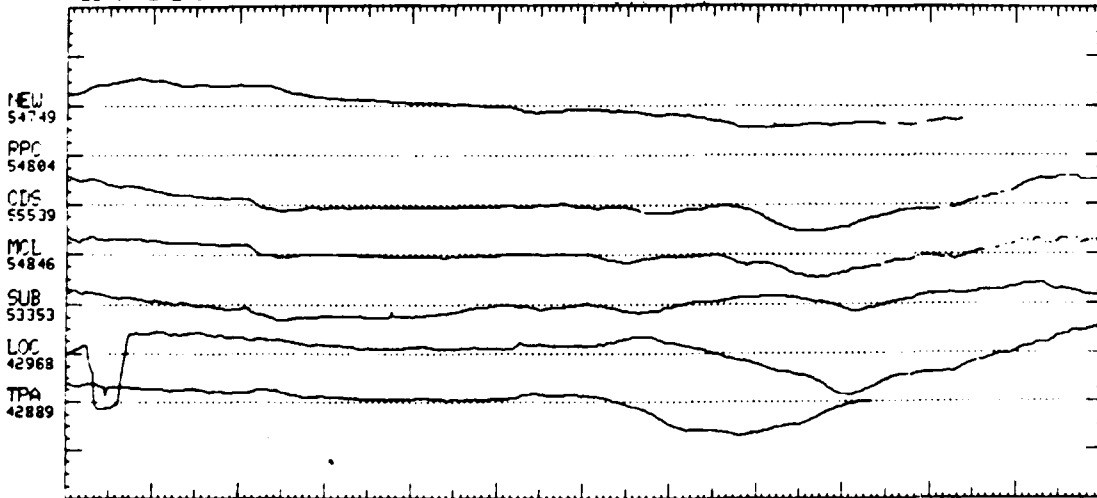
FLIGHT Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

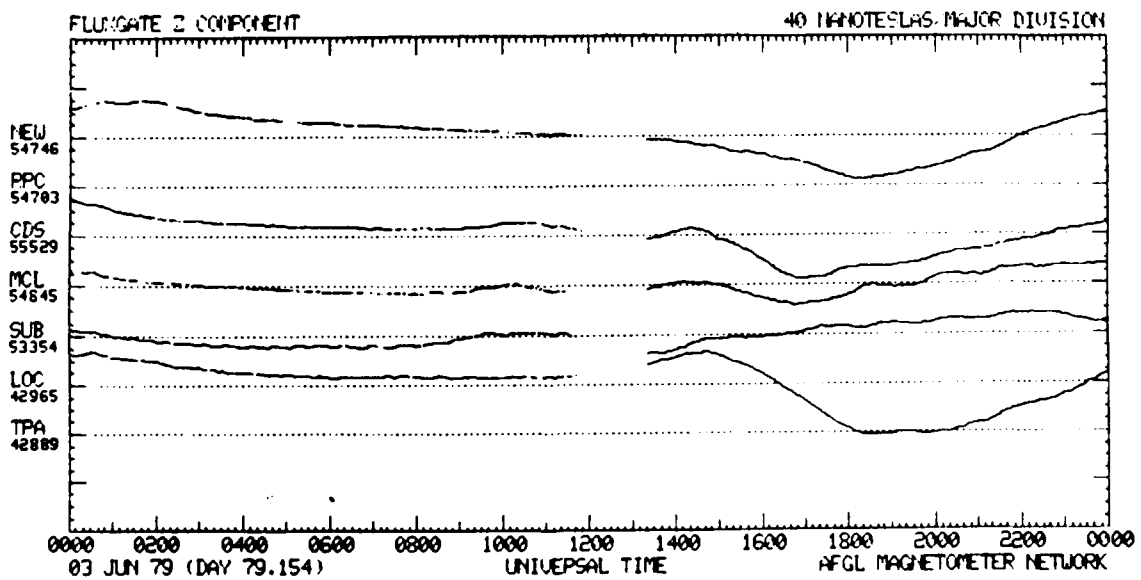
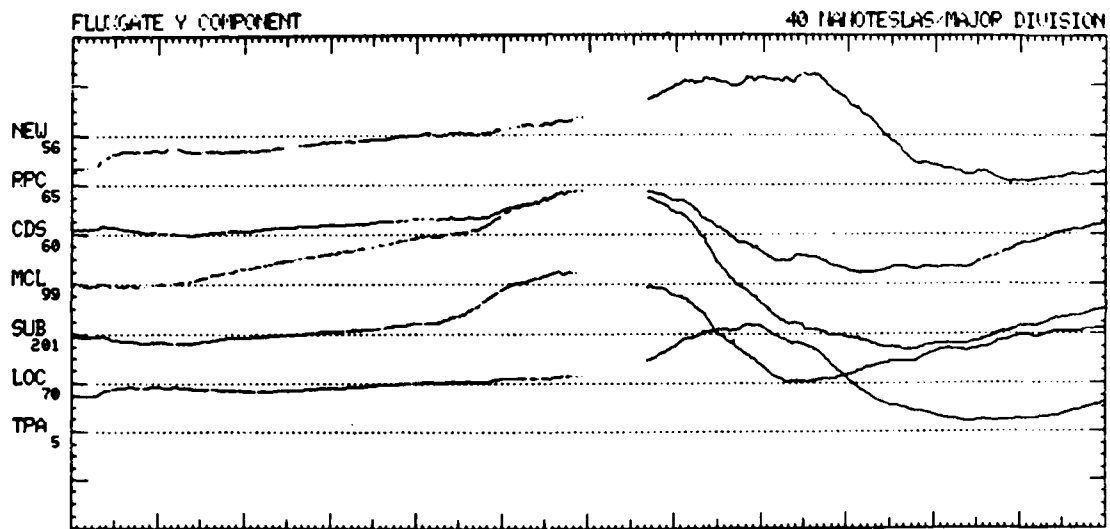
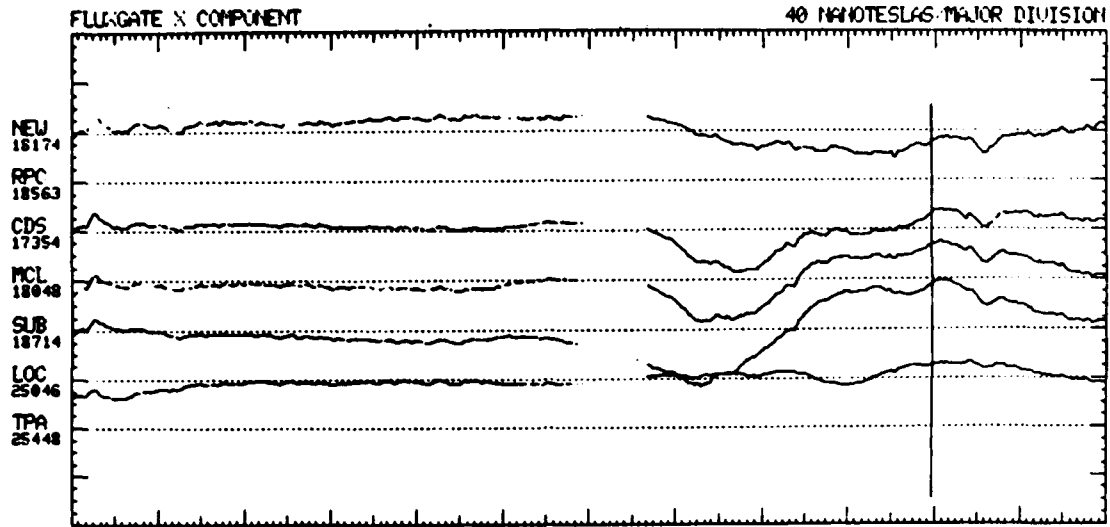


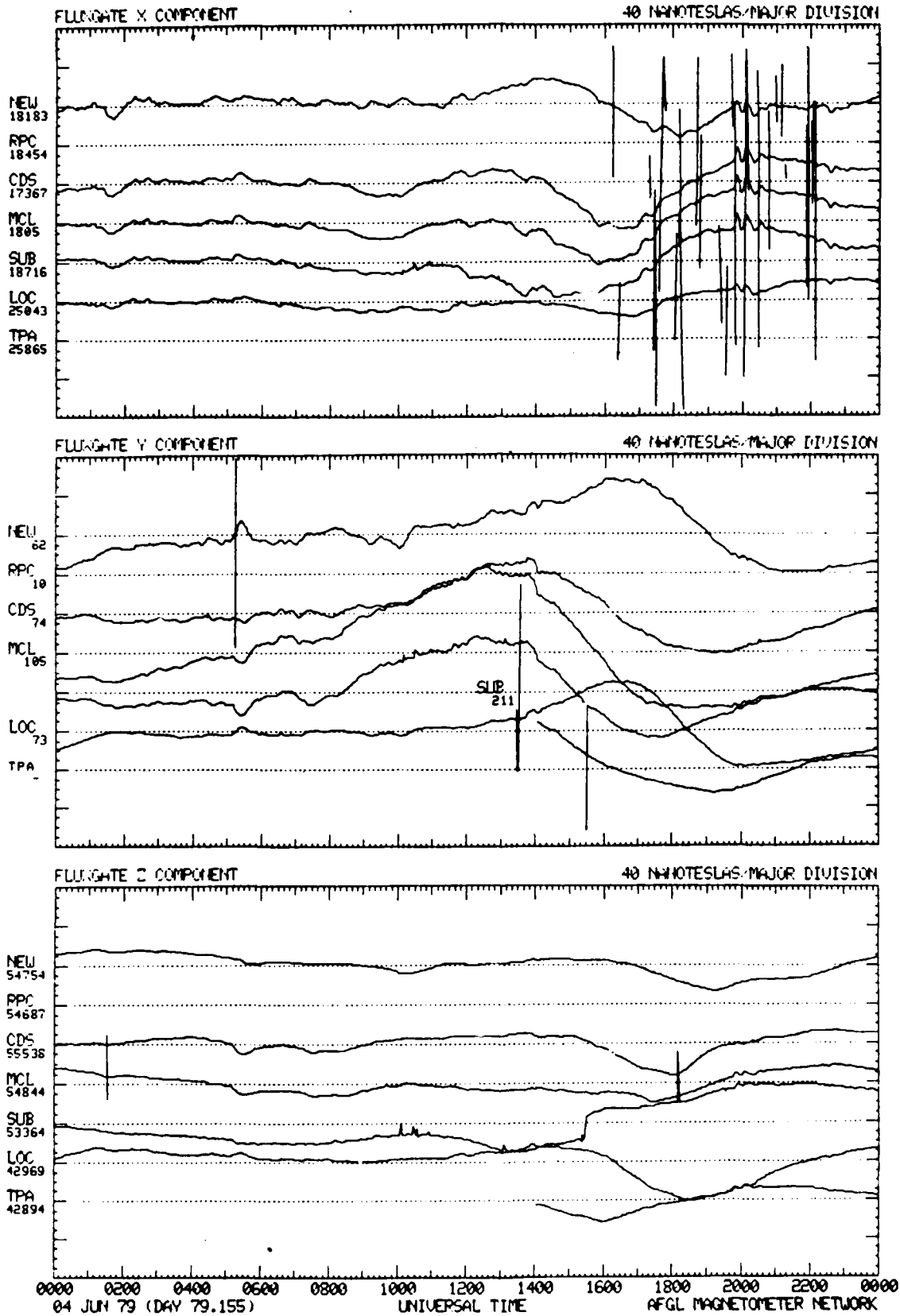
FLIGHT Z COMPONENT

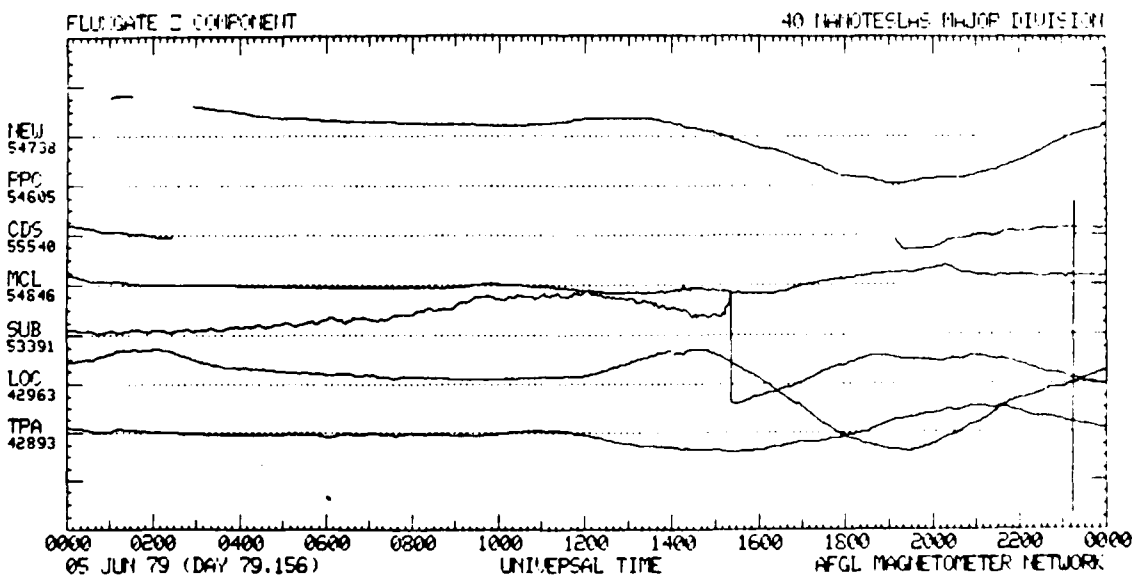
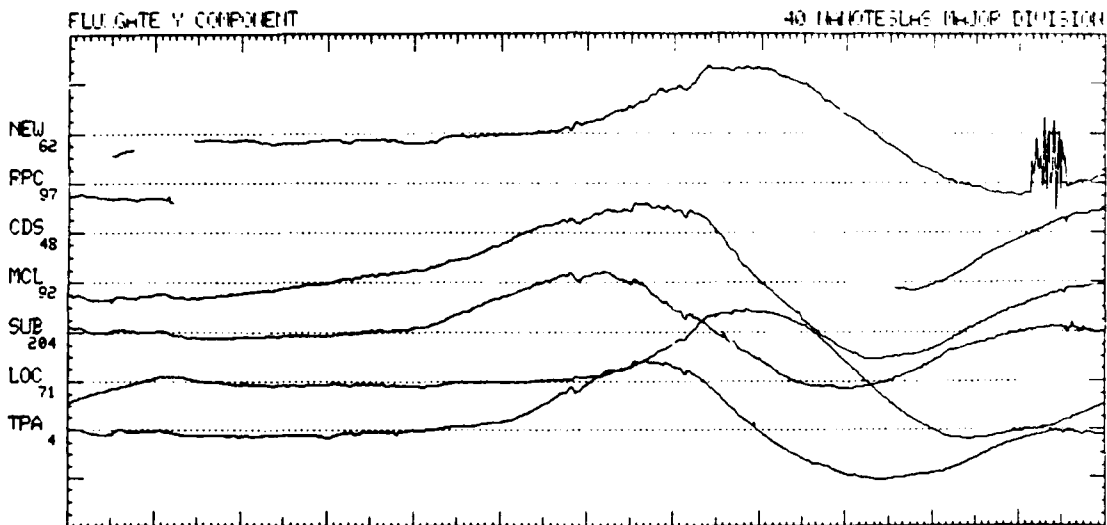
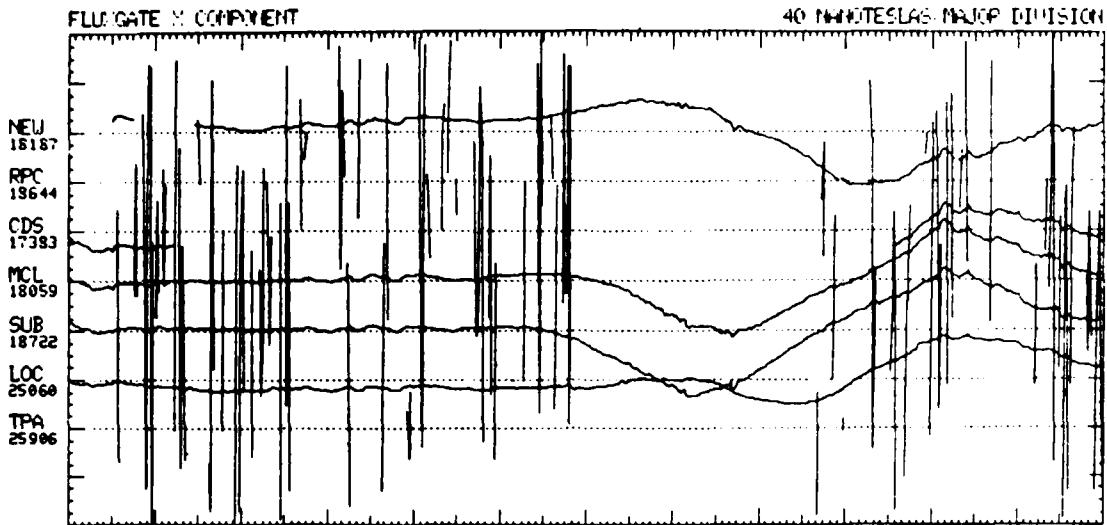
40 NANOTESLAS/MAJOR DIVISION

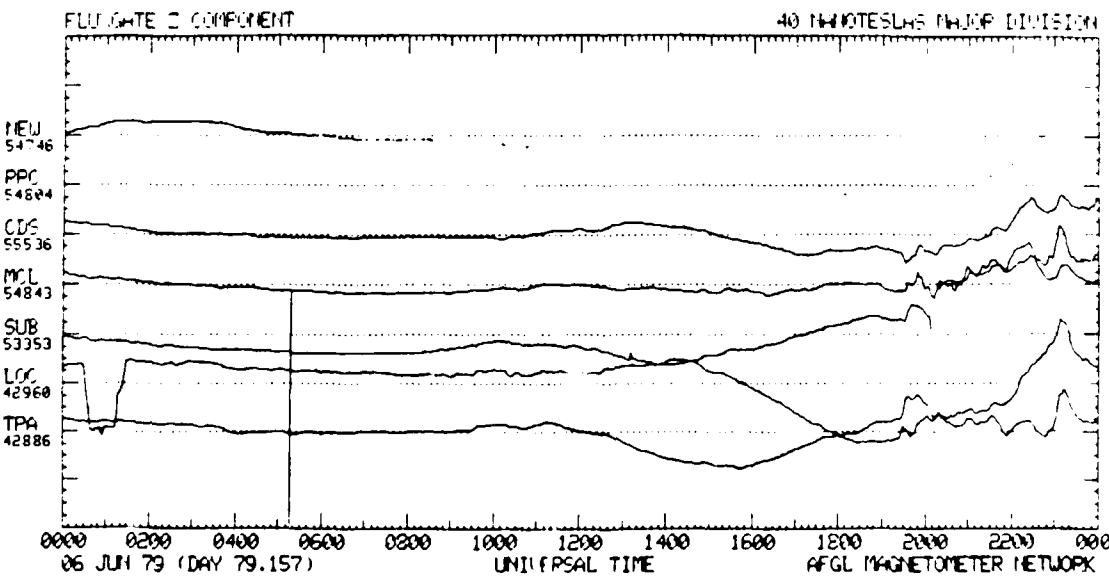
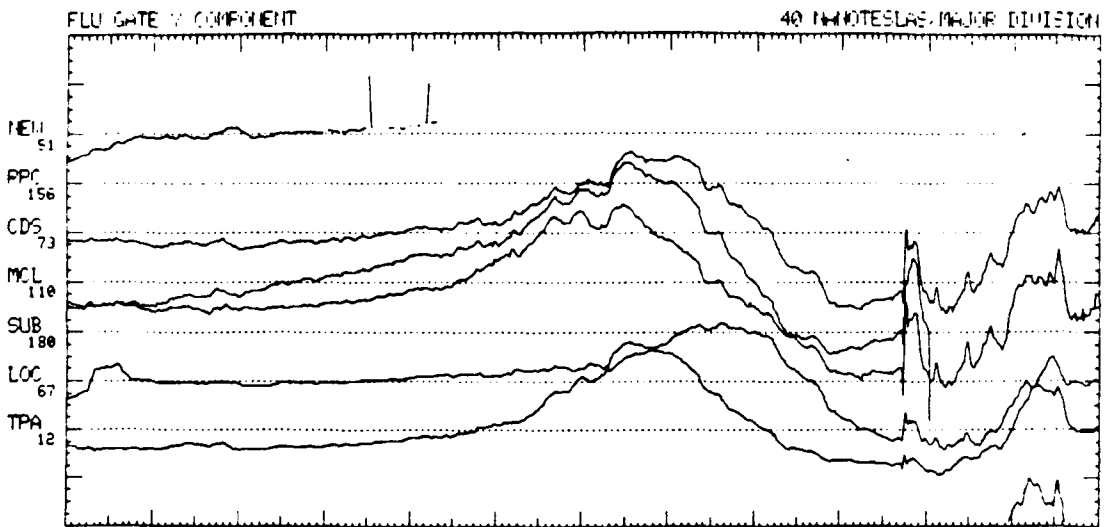
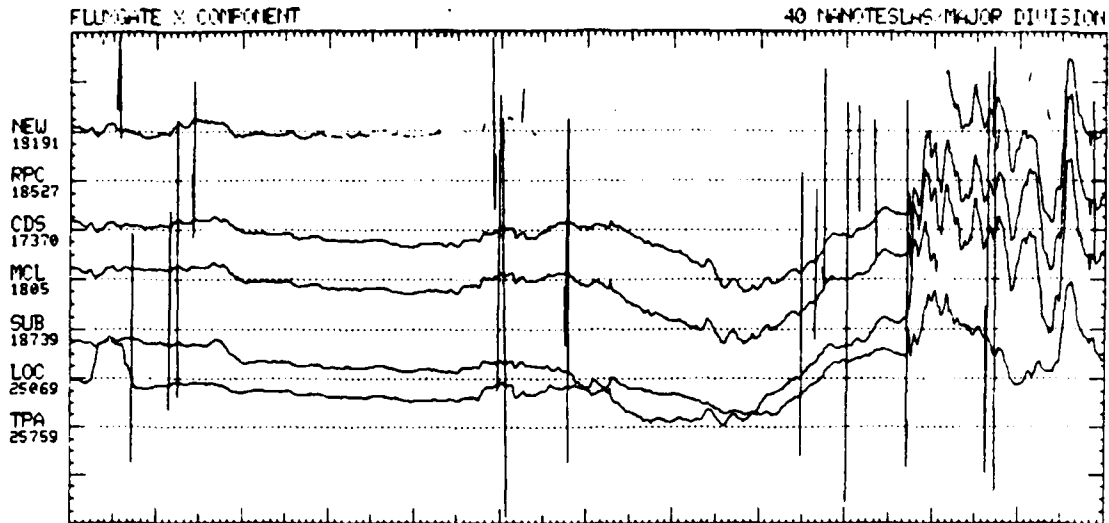


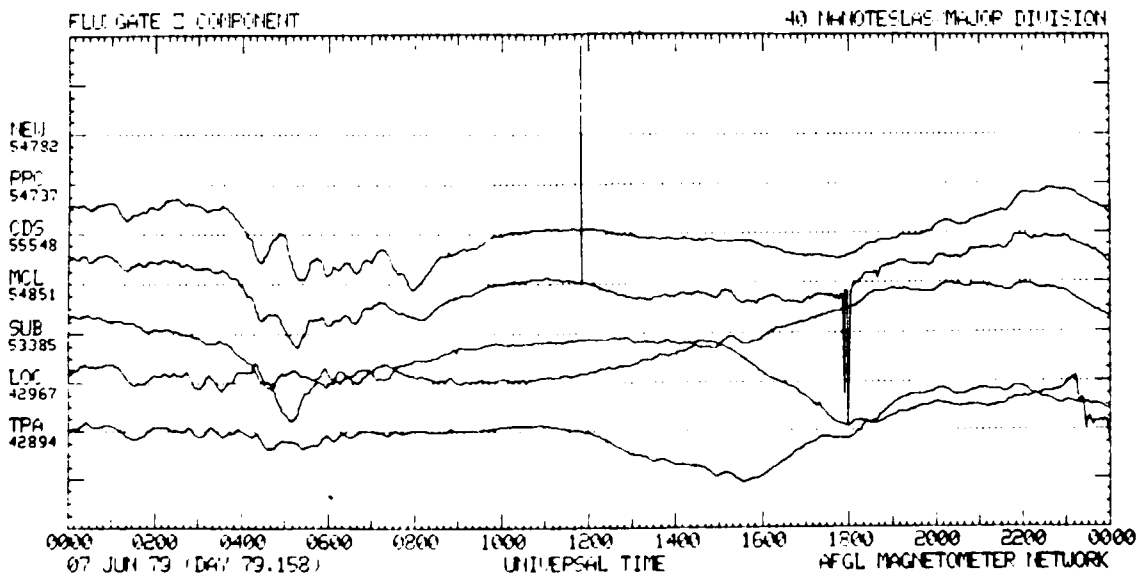
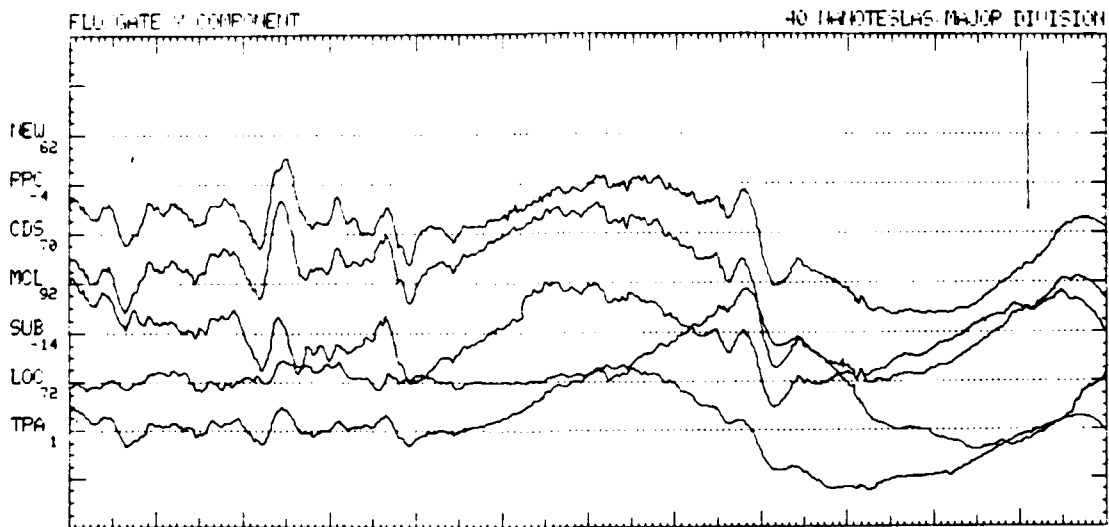
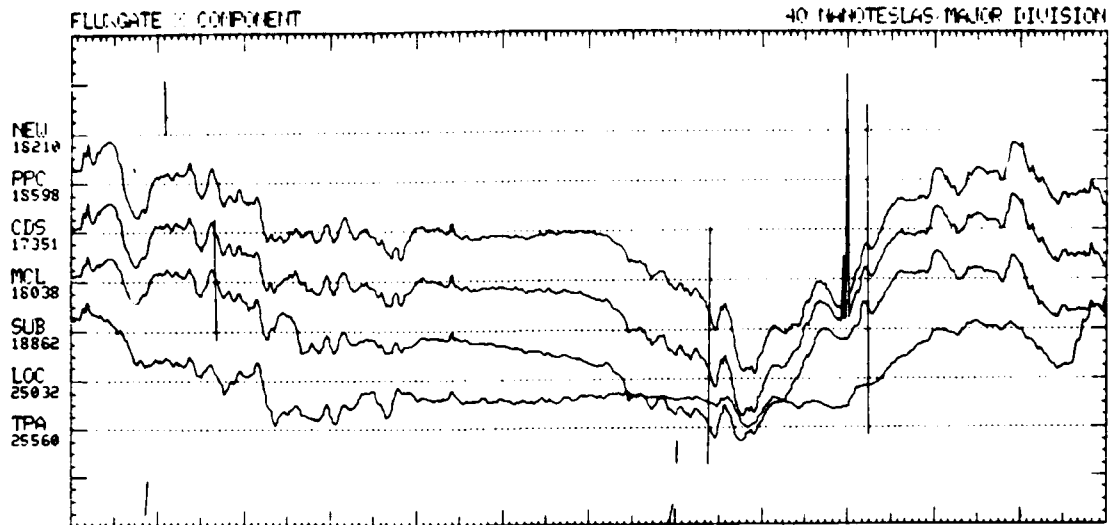
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 02 JUN 79 (DAY 79.153) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

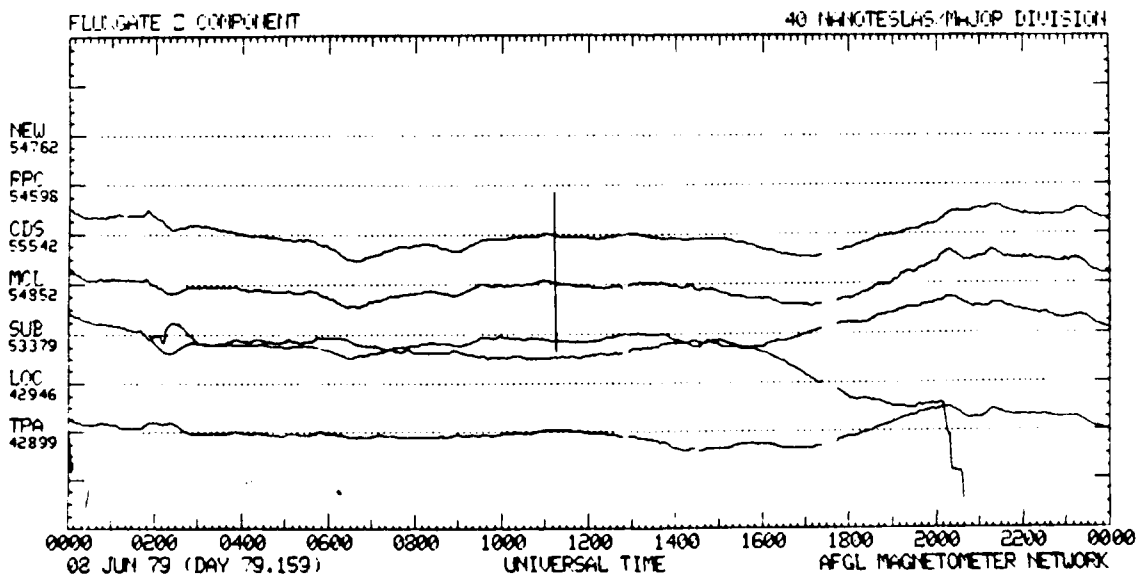
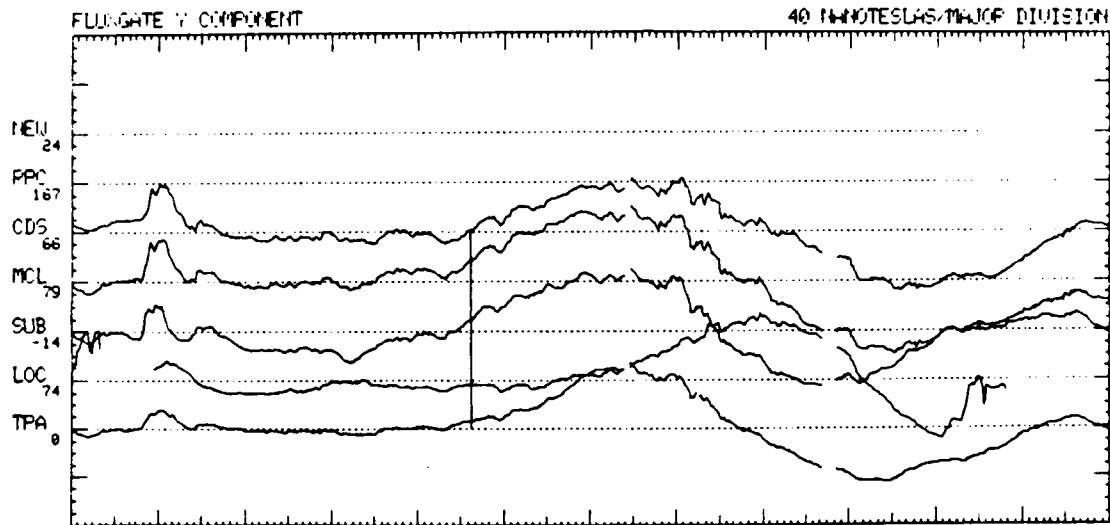
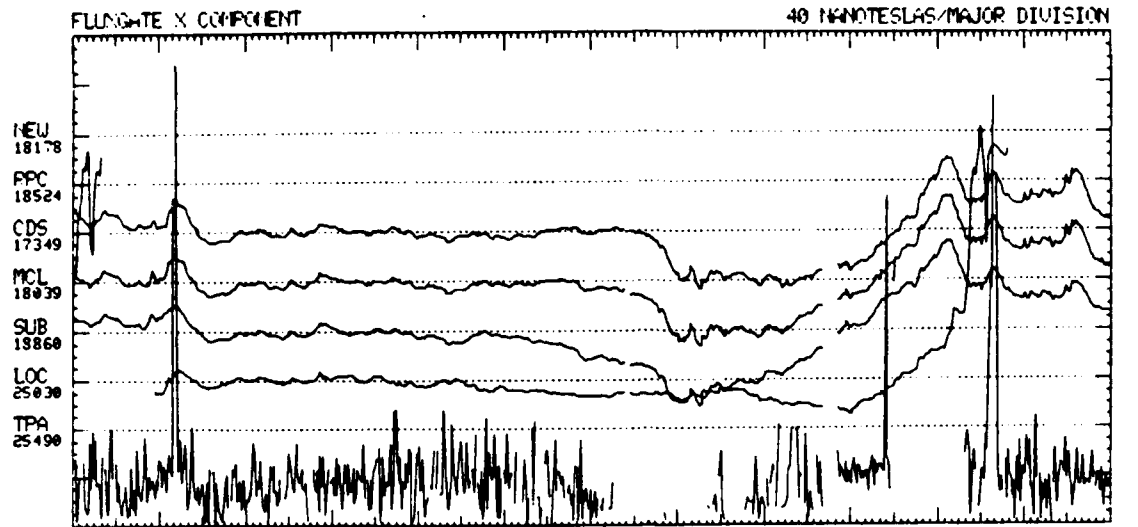


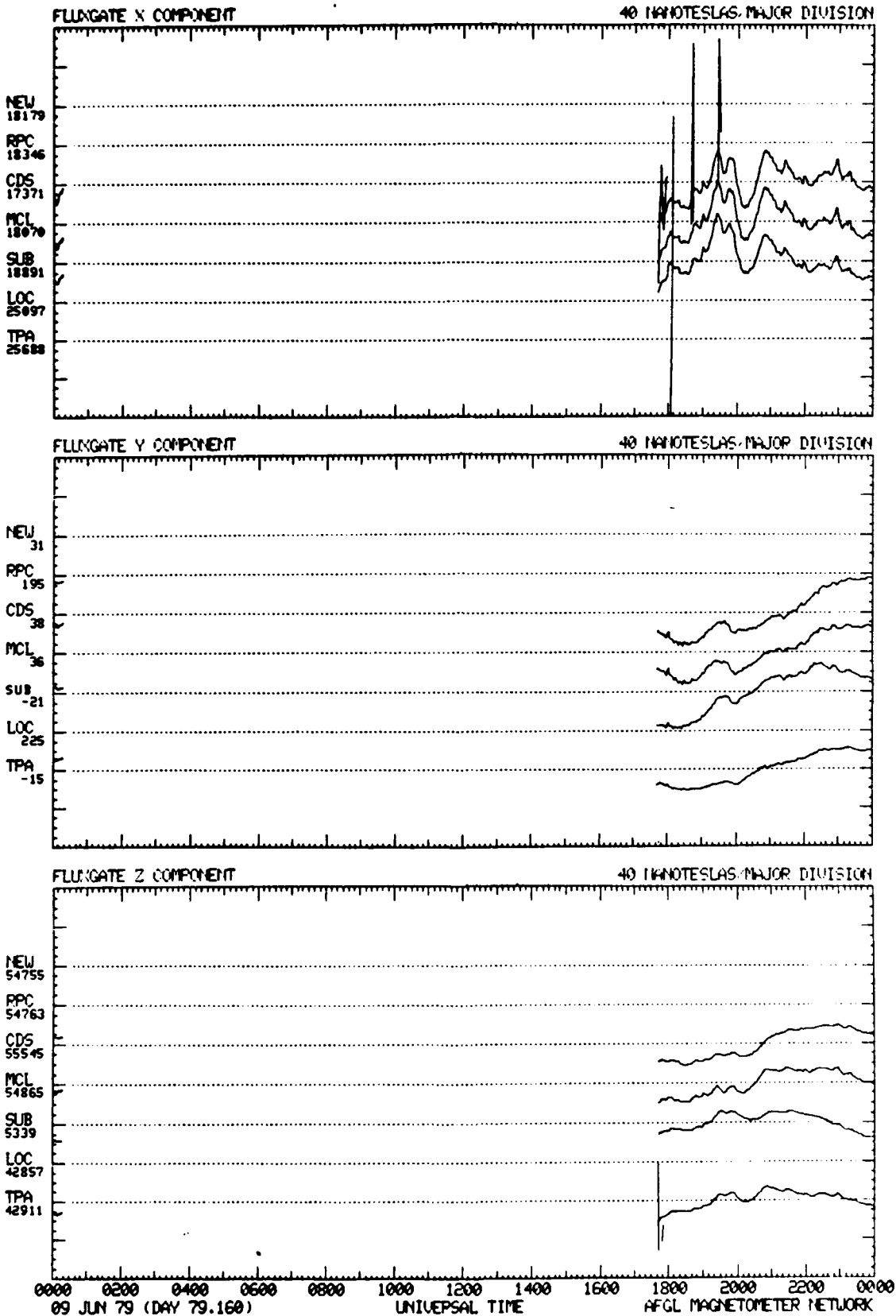


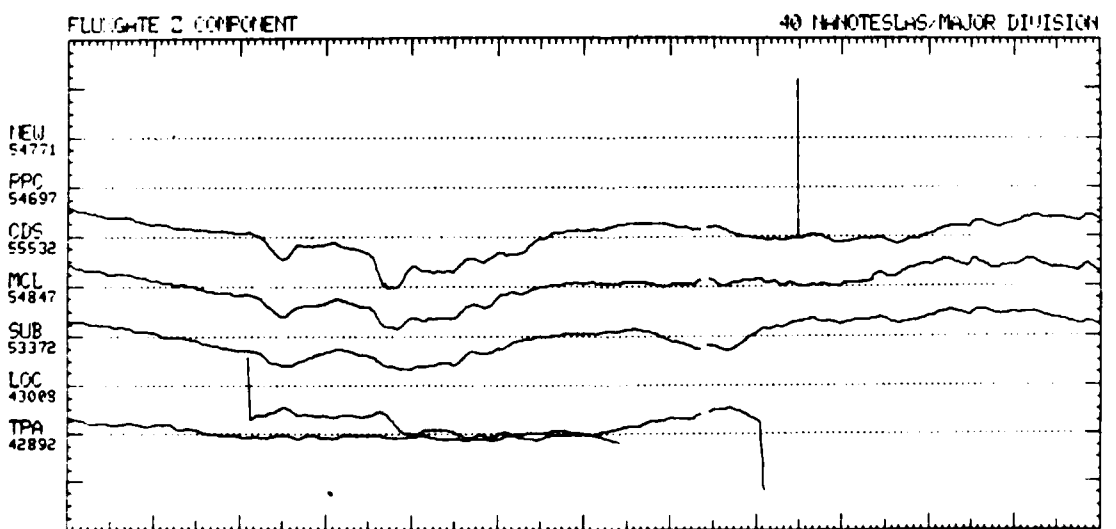
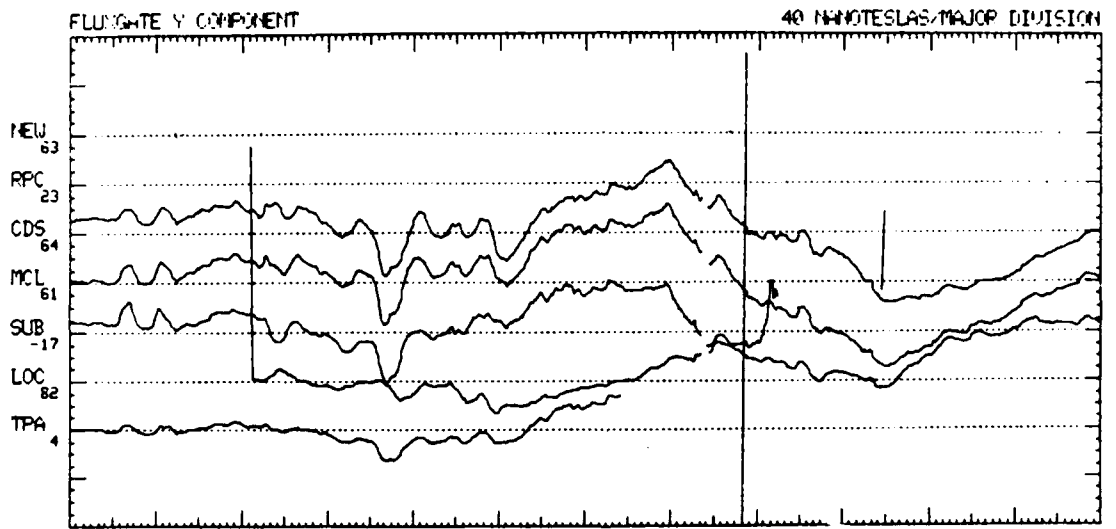
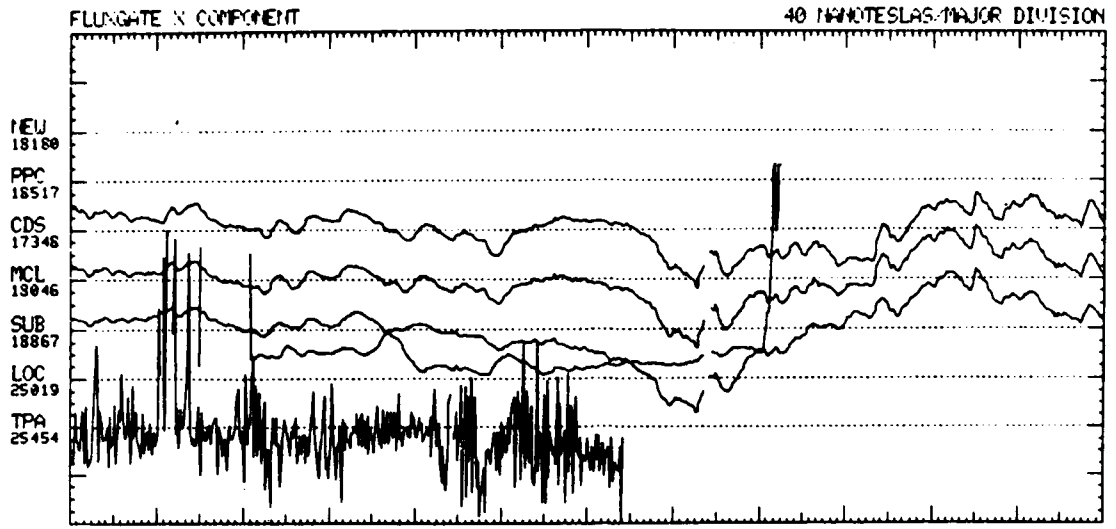




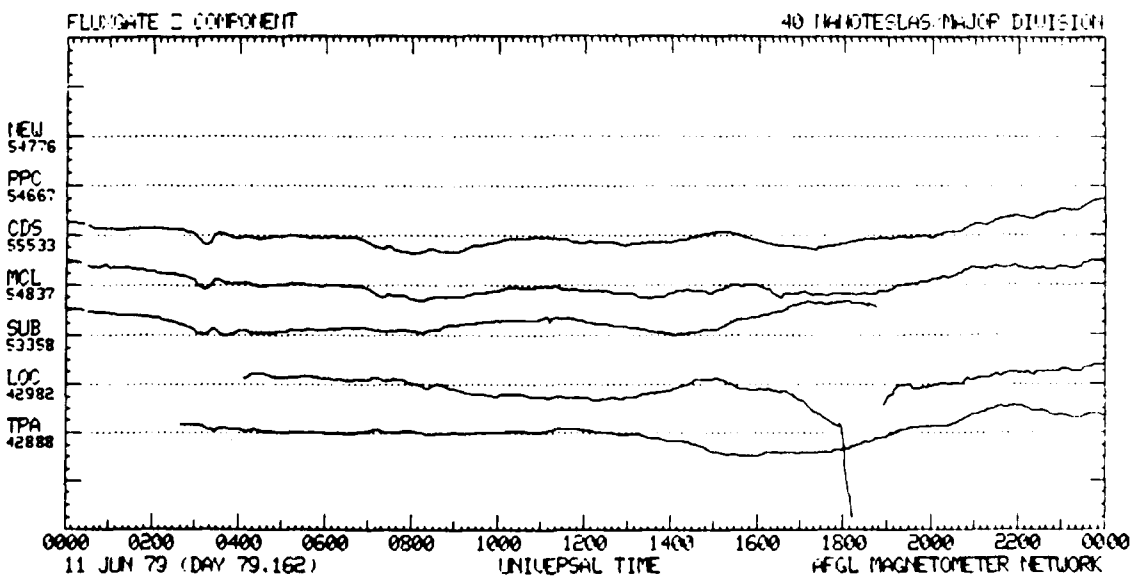
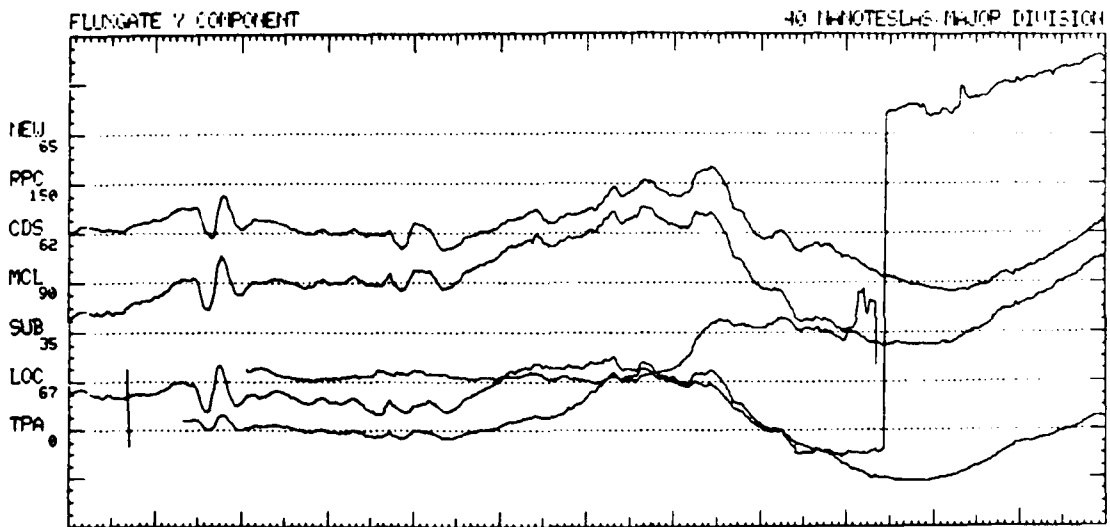
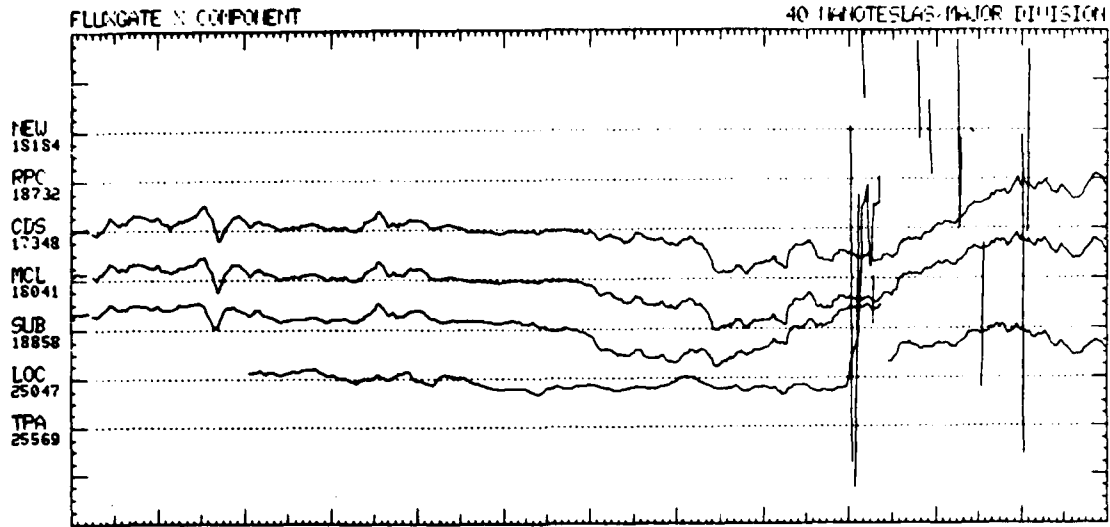


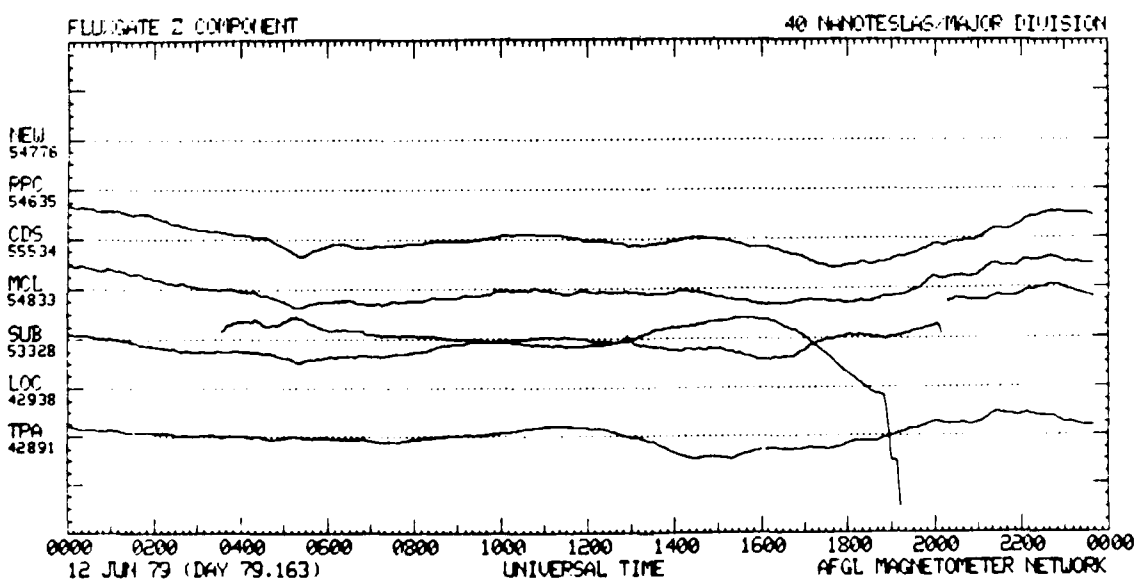
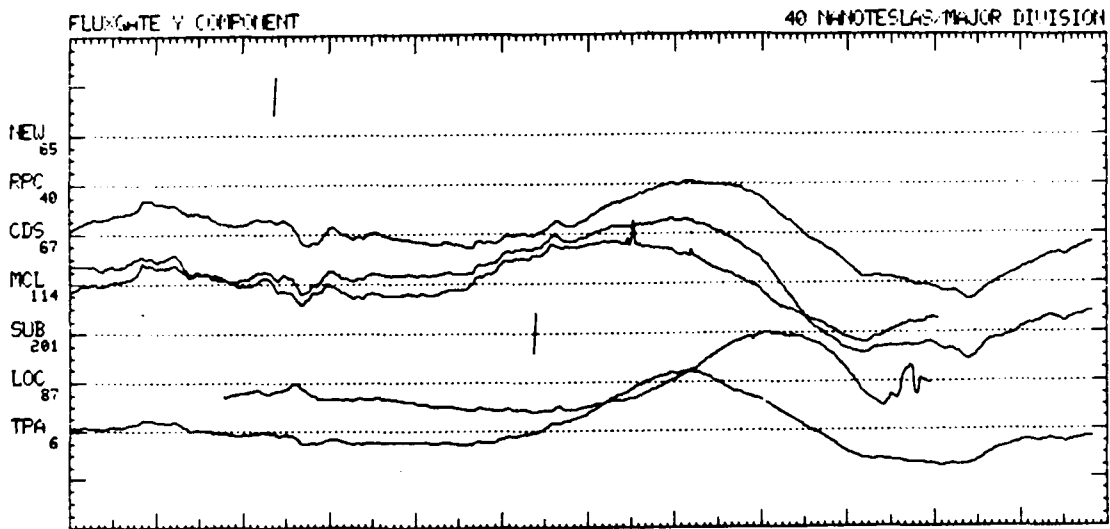
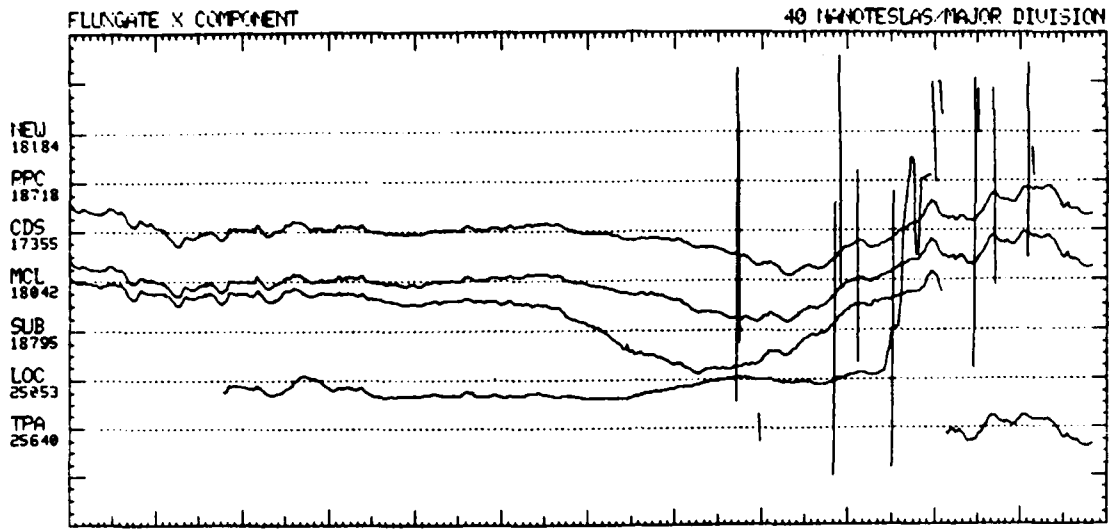


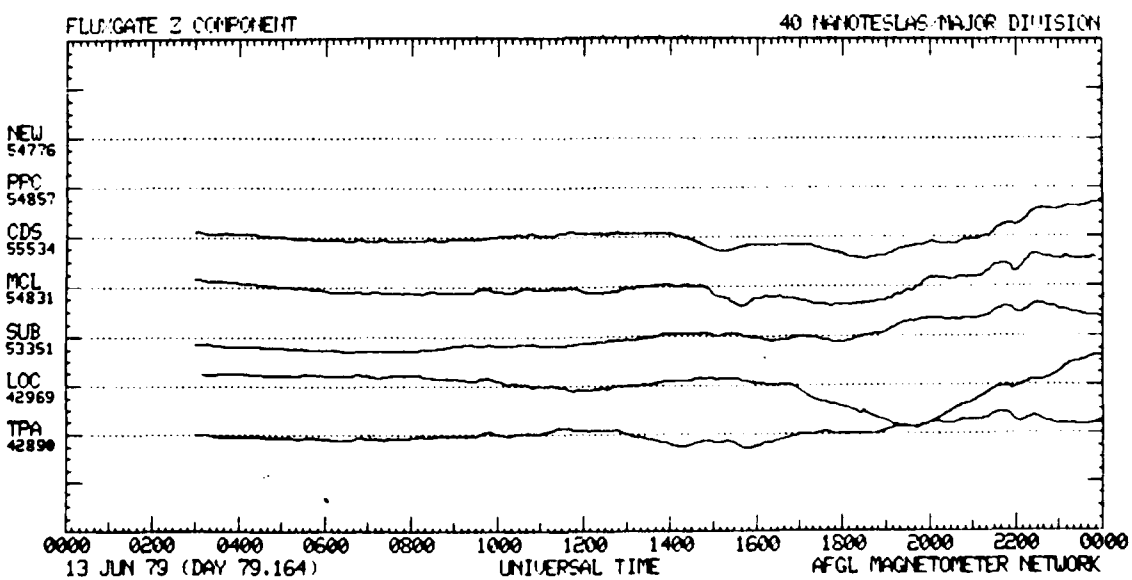
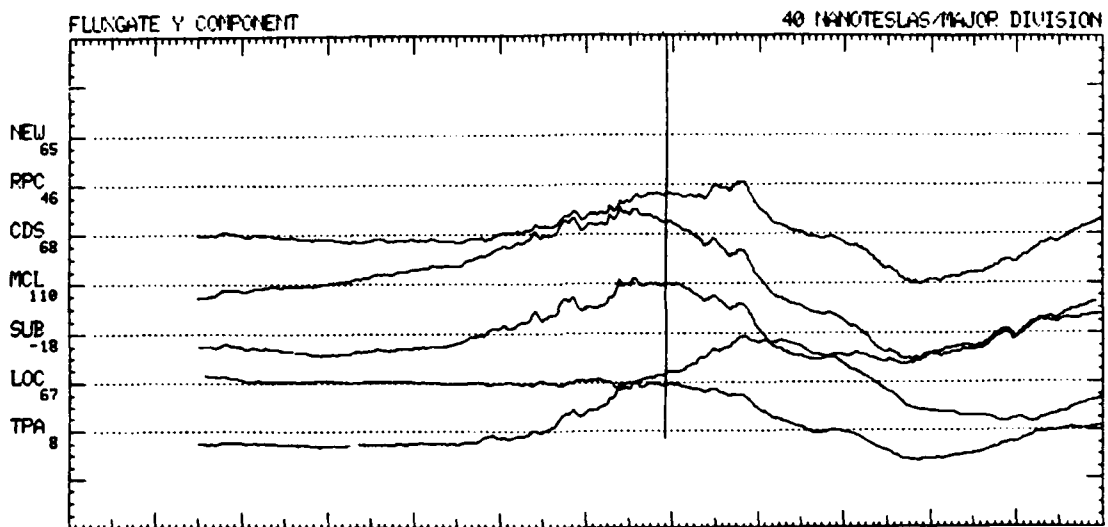
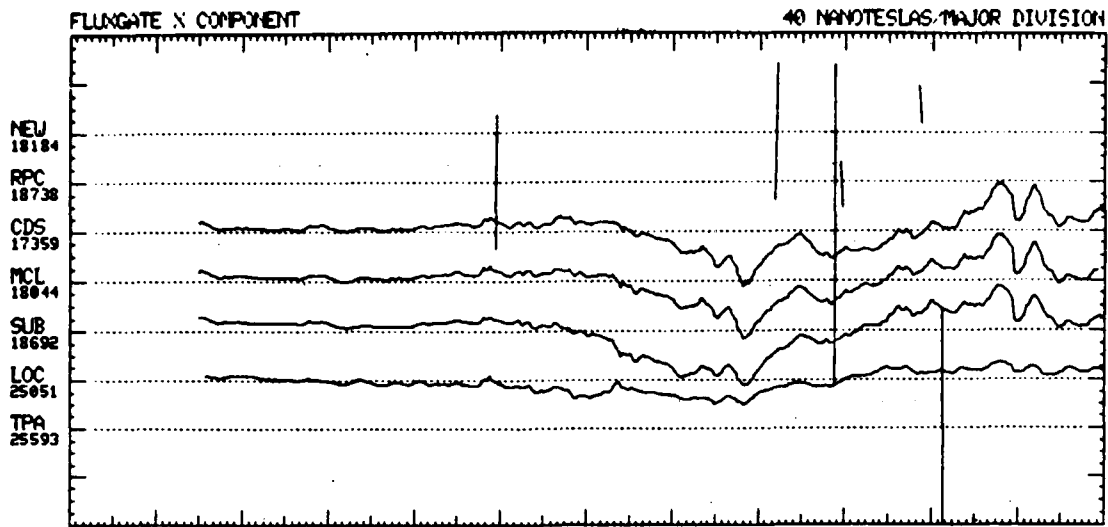


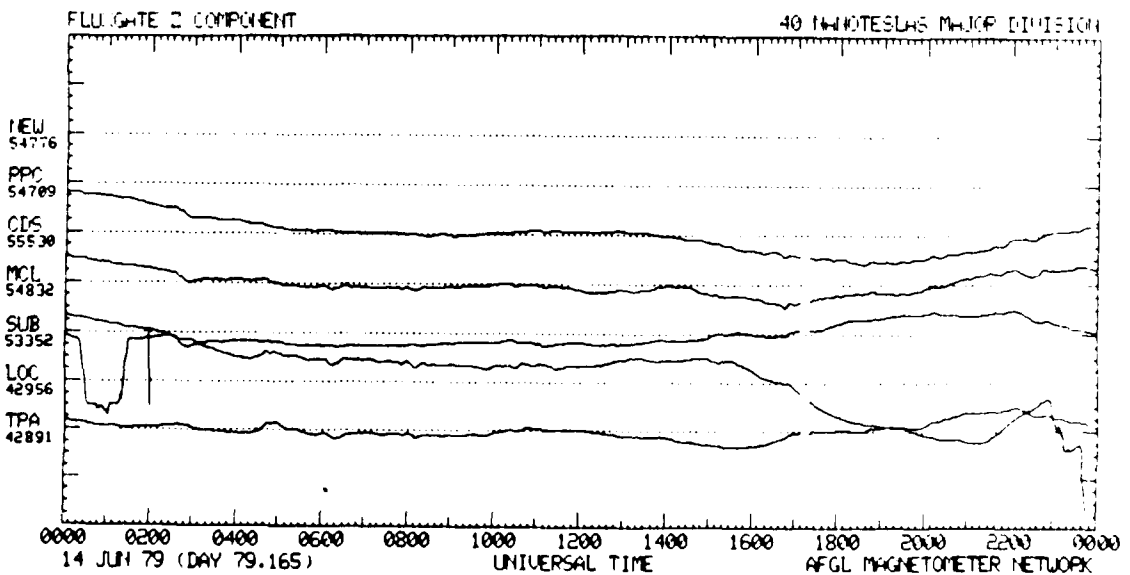
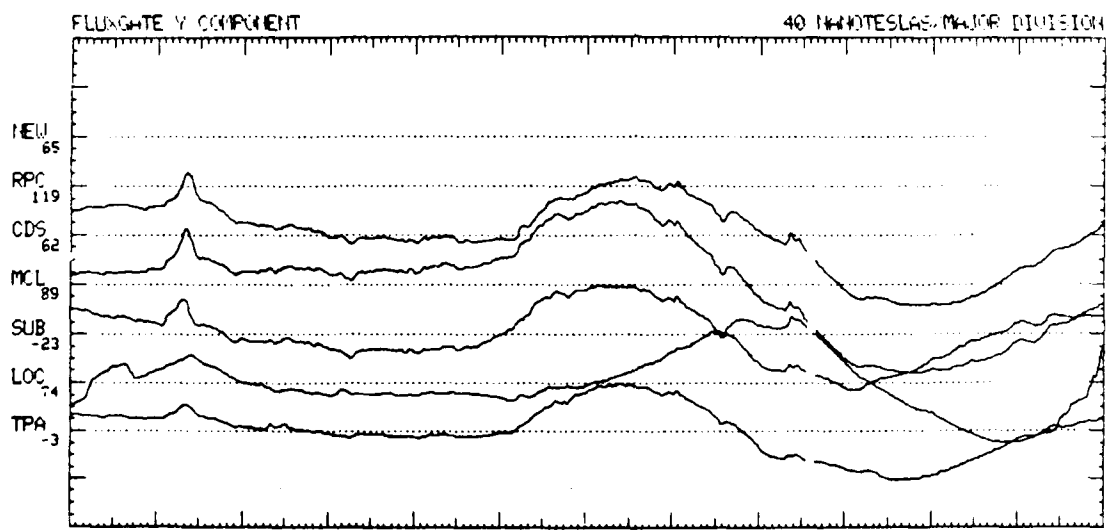
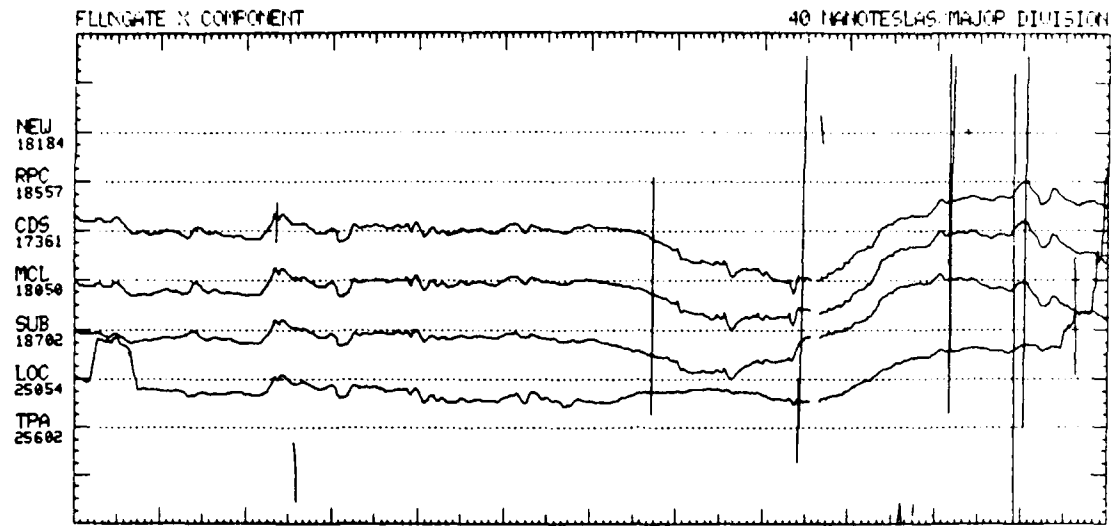


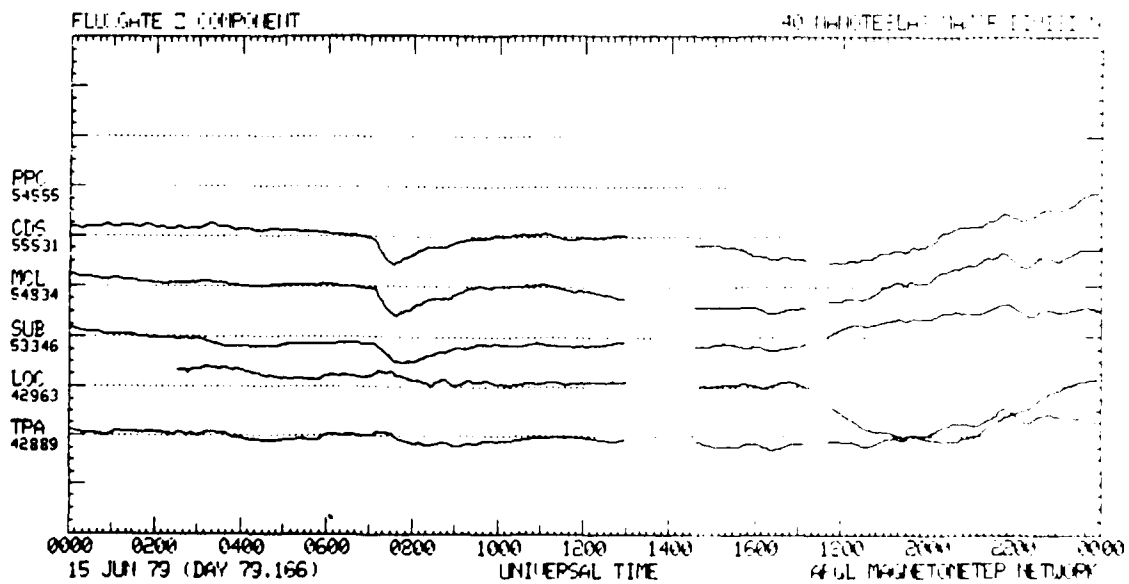
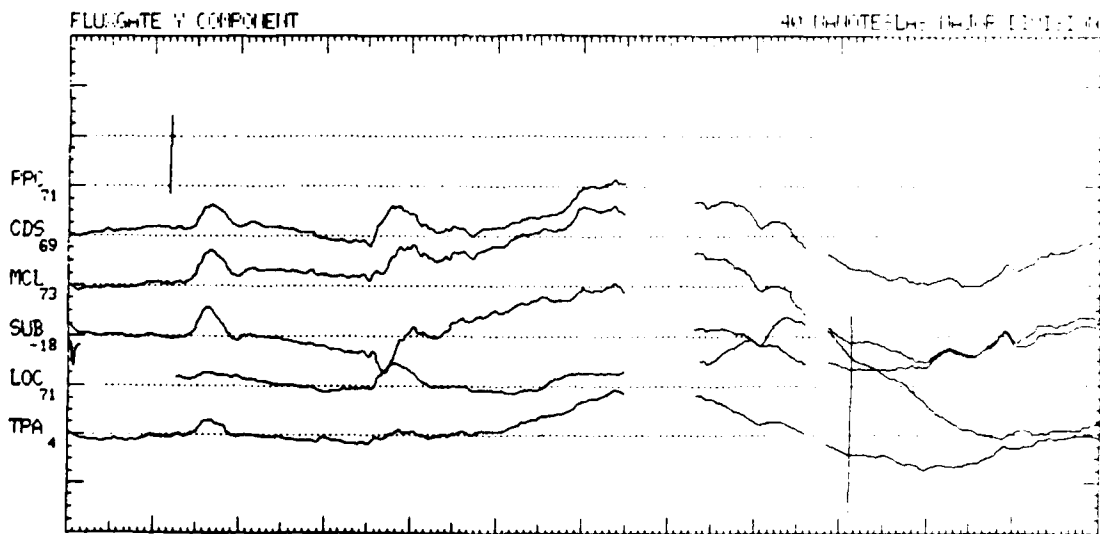
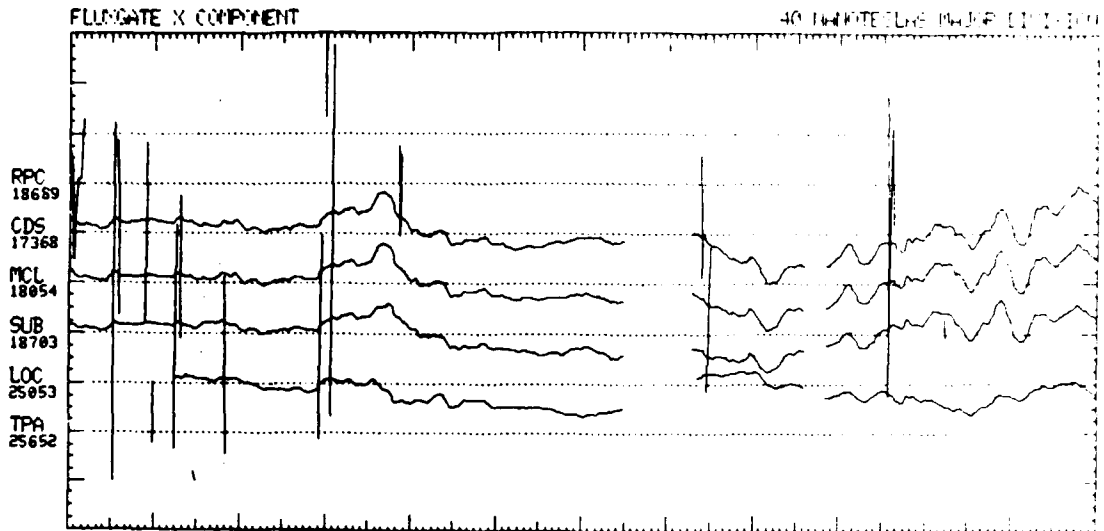
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 10 JUN 79 (DAY 79.161) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







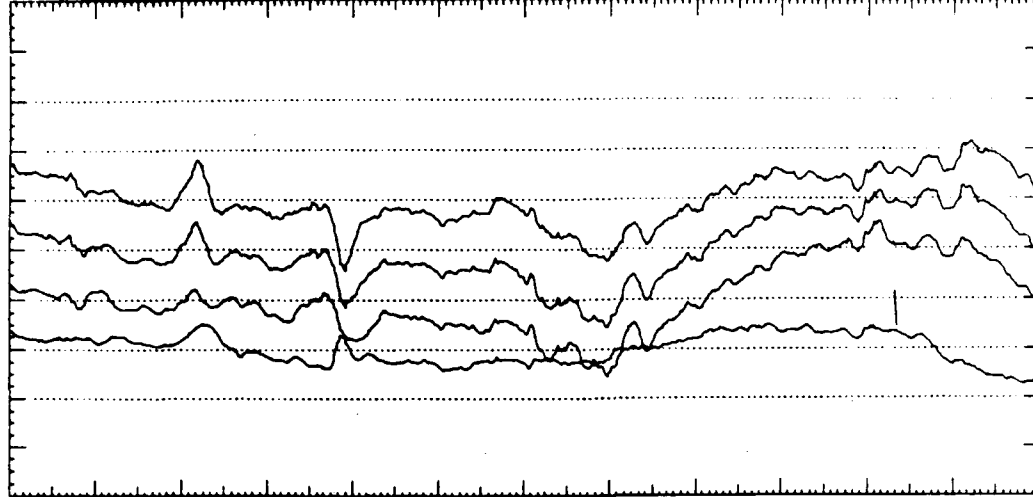




FLIGHTGATE X COMPONENT

40 NANOTESLAH MAJOR DIVISION

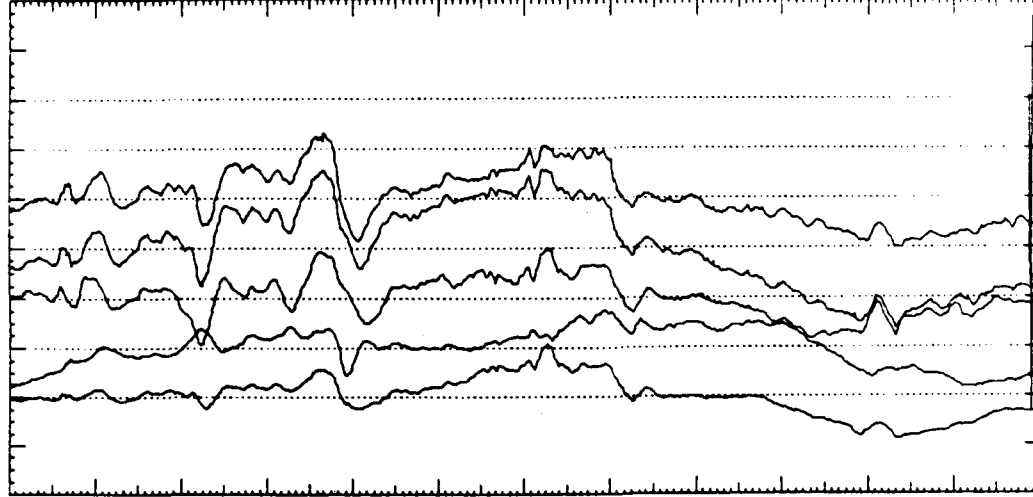
RPC
18548
CDS
17363
MCL
18051
SUB
18702
LOC
25028
TPA
25577



FLIGHTGATE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION

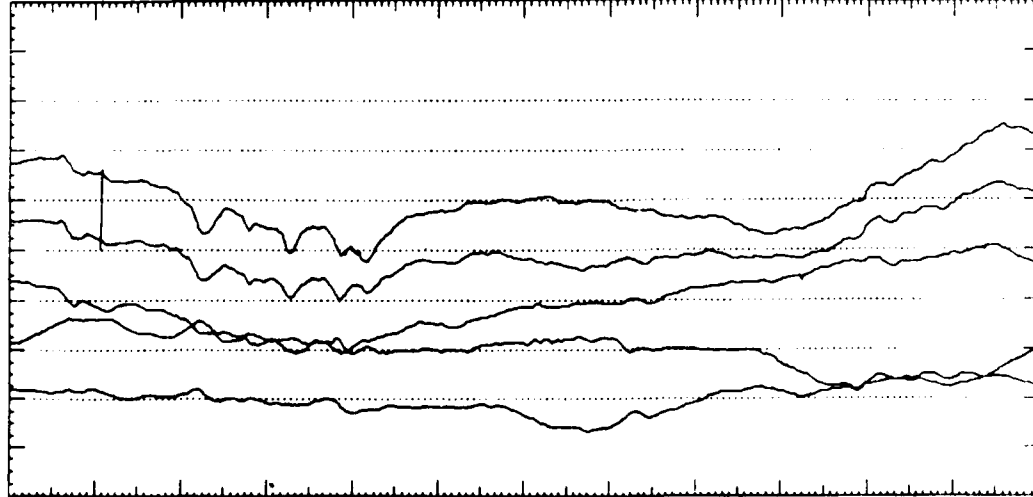
RPC
-43
CDS
72
MCL
60
SUB
-15
LOC
72
TPA
2



FLIGHTGATE Z COMPONENT

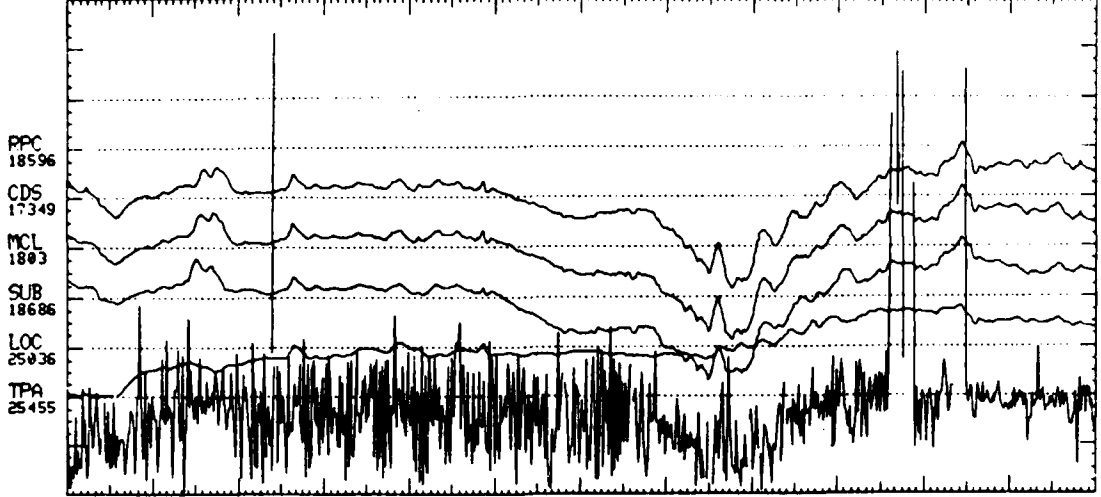
40 NANOTESLAH MAJOR DIVISION

RPC
54735
CDS
55537
MCL
54840
SUB
53352
LOC
42964
TPA
42890

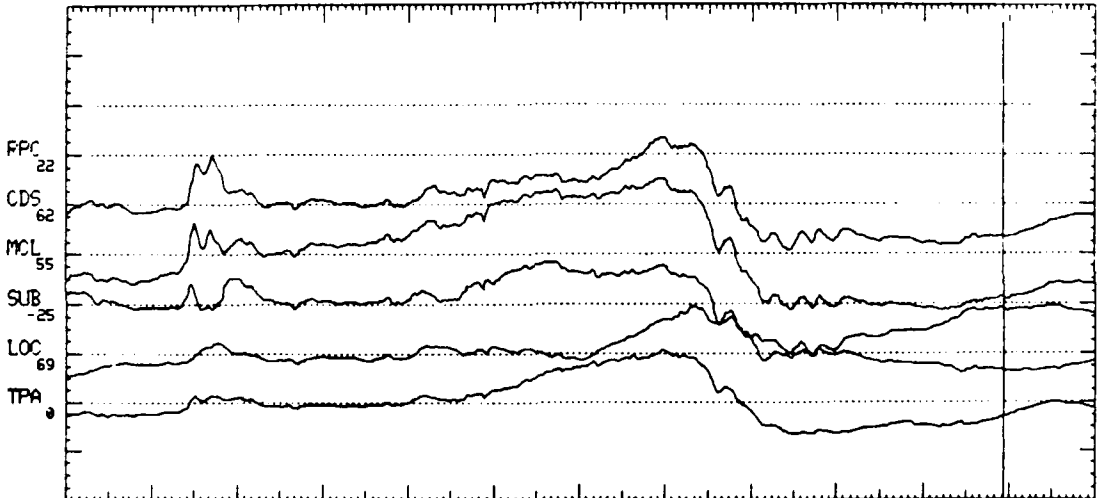


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 JUN 79 (DAY 79.167) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

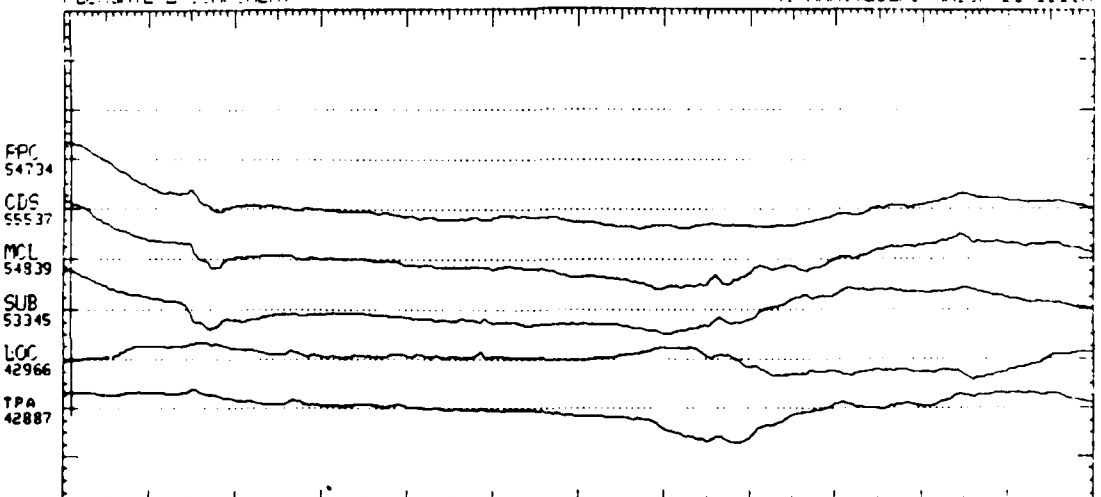
FLIGHTGATE X COMPONENT 40 NANOTESLAS MAJOR DIVISION



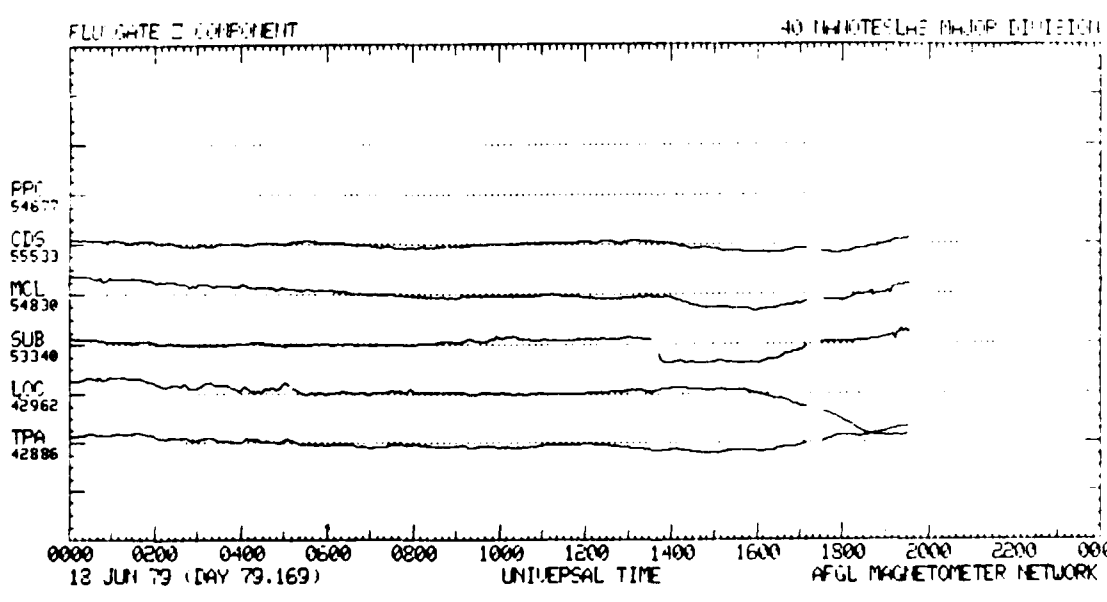
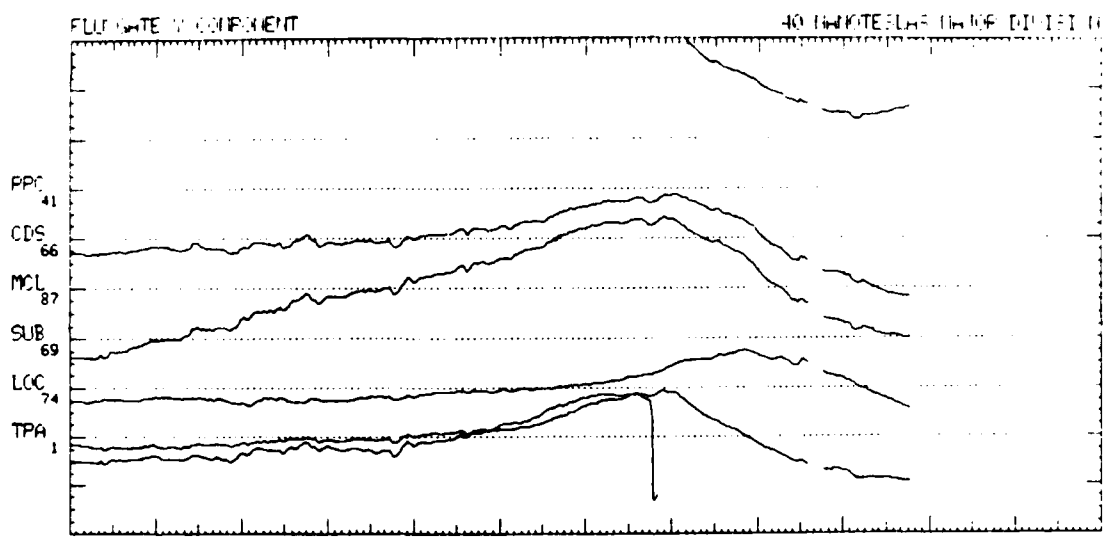
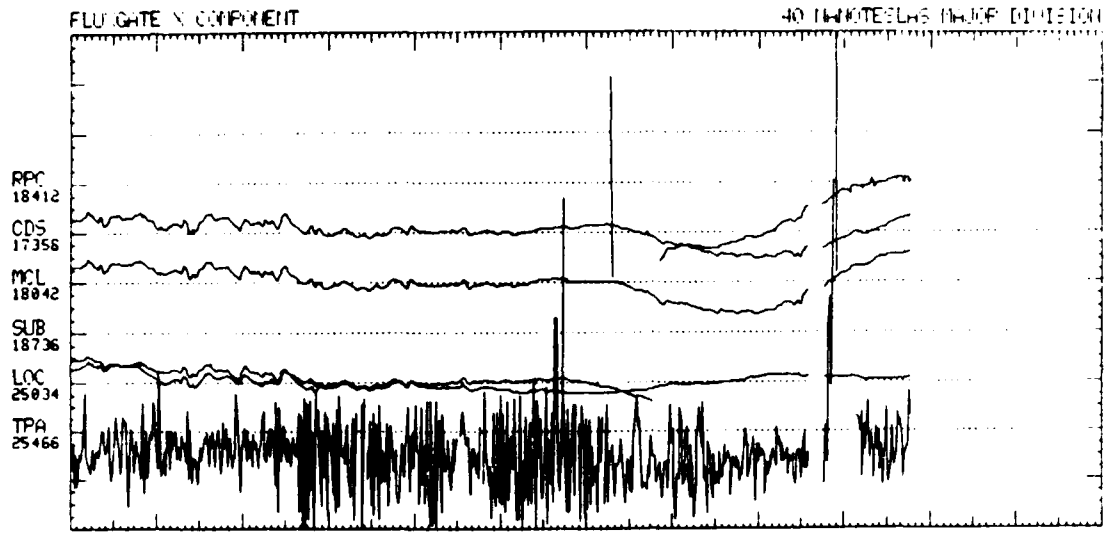
FLIGHTGATE Y COMPONENT 40 NANOTESLAS MAJOR DIVISION



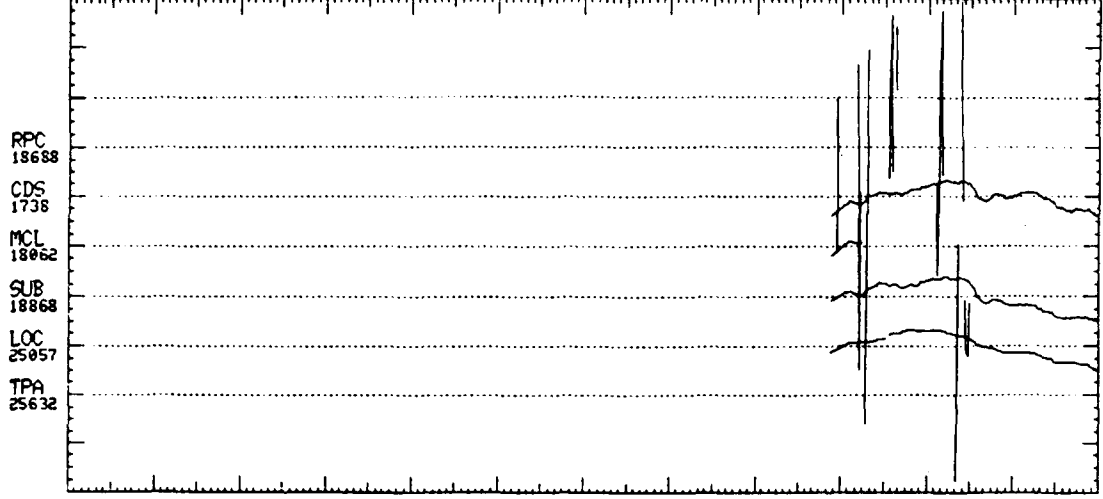
FLIGHTGATE Z COMPONENT 40 NANOTESLAS MAJOR DIVISION



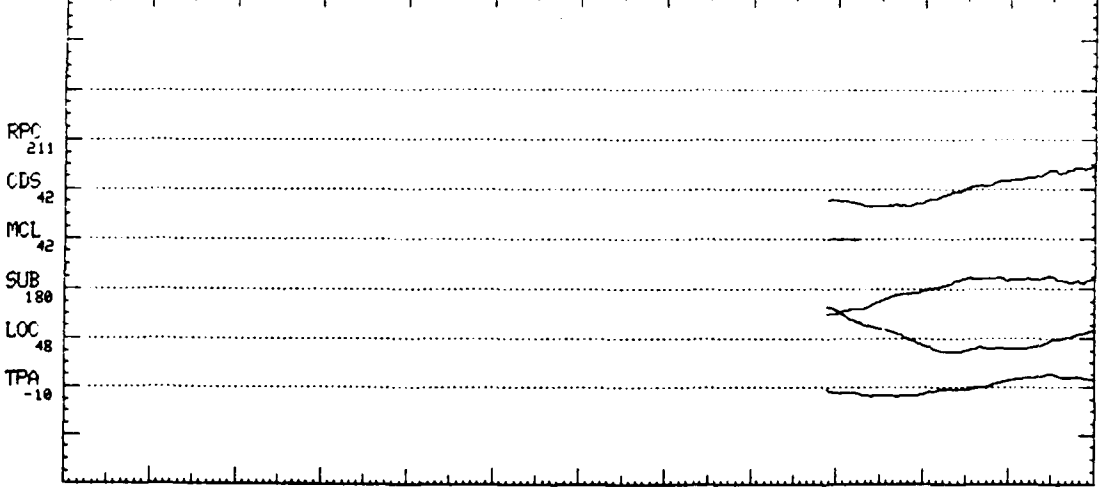
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 17 JUN 79 (DAY 79.168) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



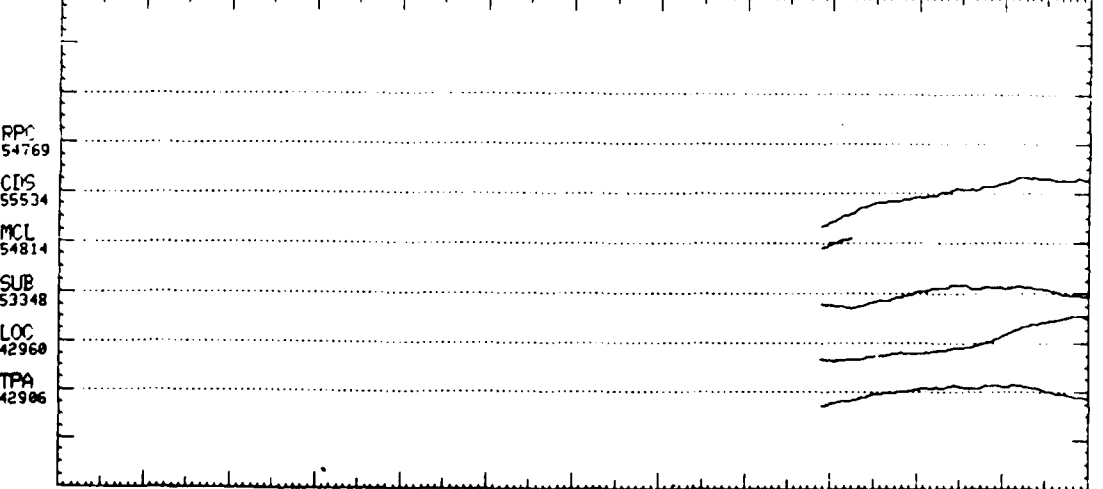
FLUNGATE X COMPONENT 40 NANOTESLAS/MAJOR DIVISION



FLUNGATE Y COMPONENT 40 NANOTESLAS/MAJOR DIVISION



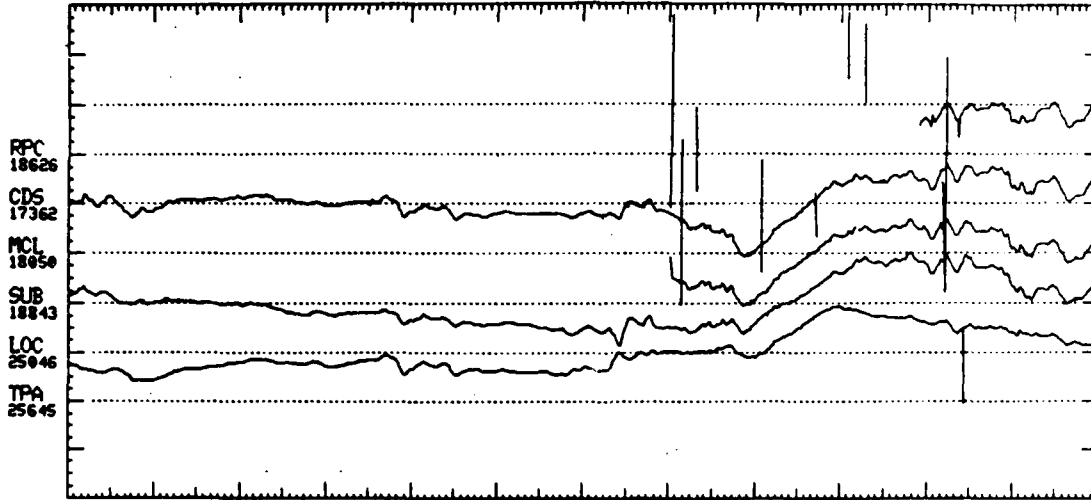
FLUNGATE Z COMPONENT 40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 19 JUN 79 (DAY 79.170) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

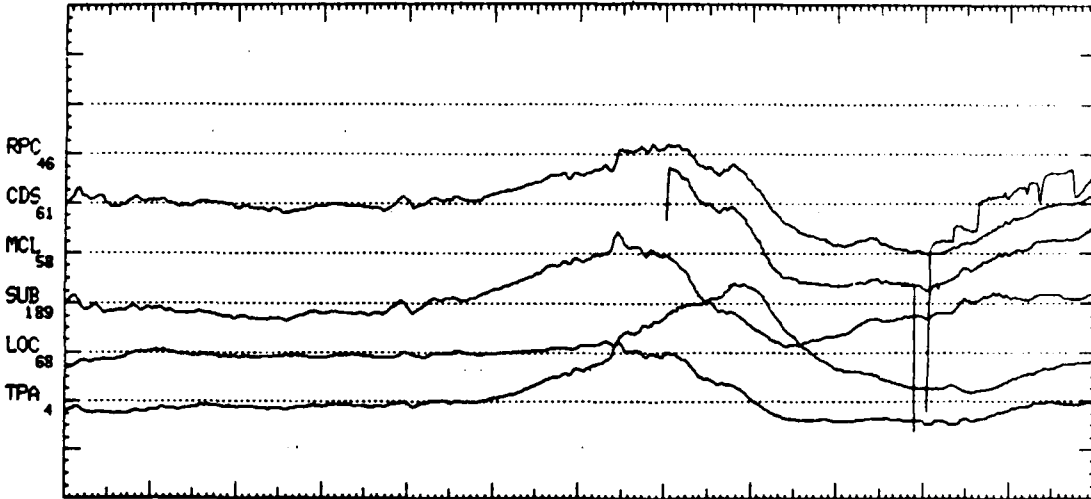
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



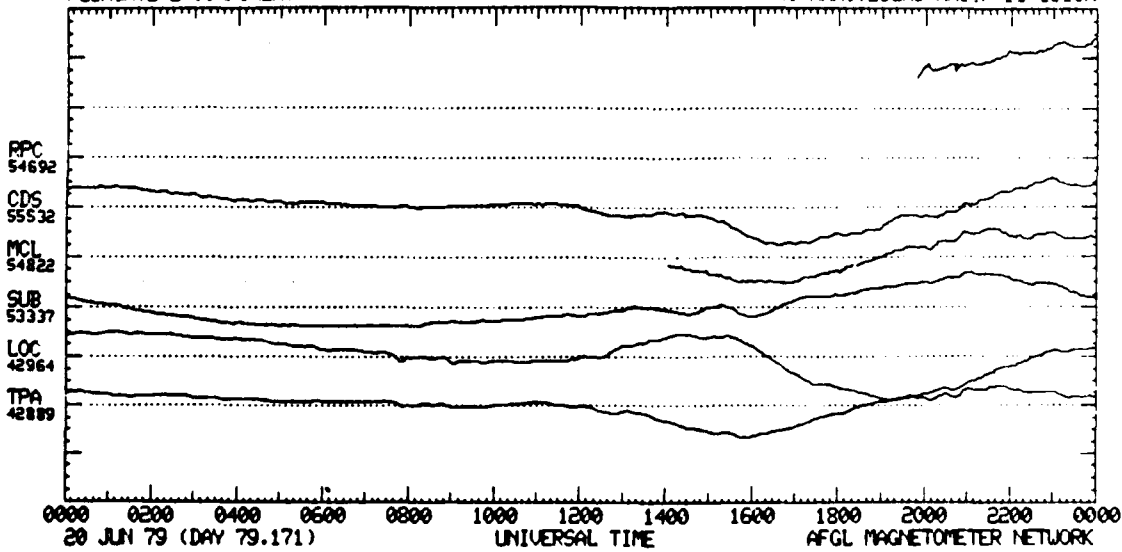
FLUXGATE Y COMPONENT

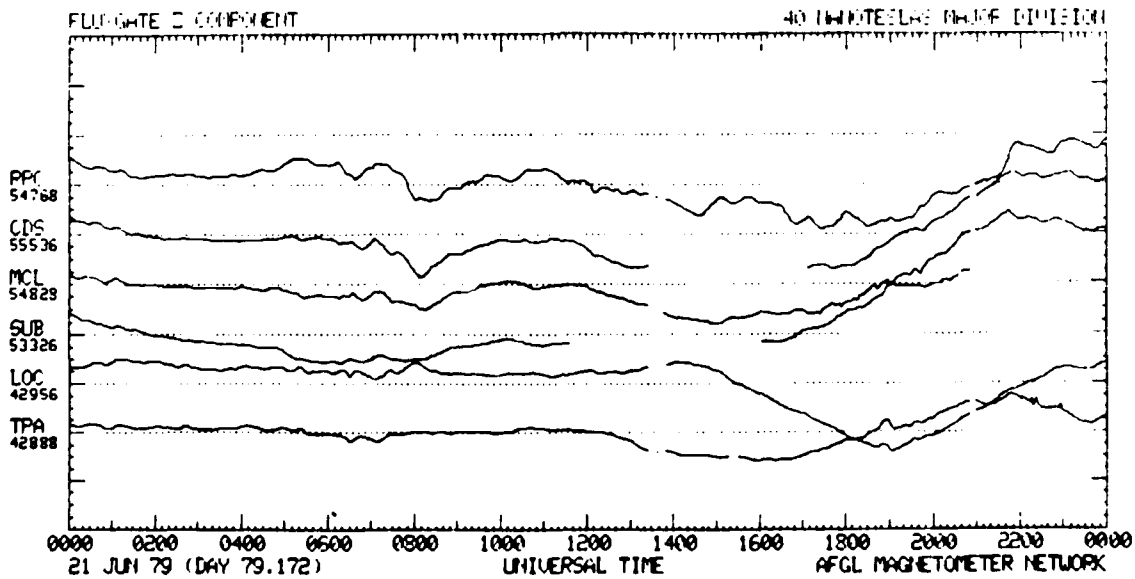
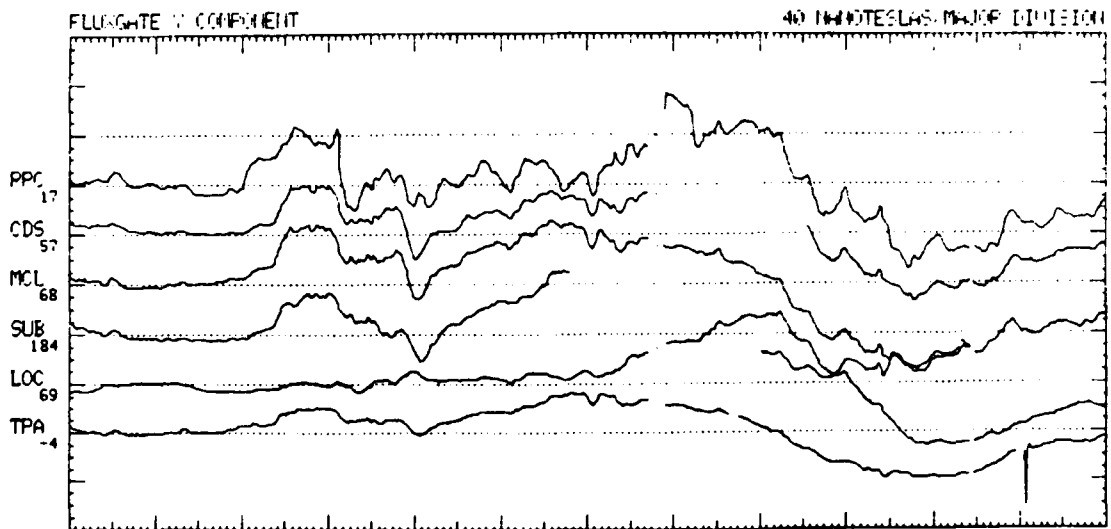
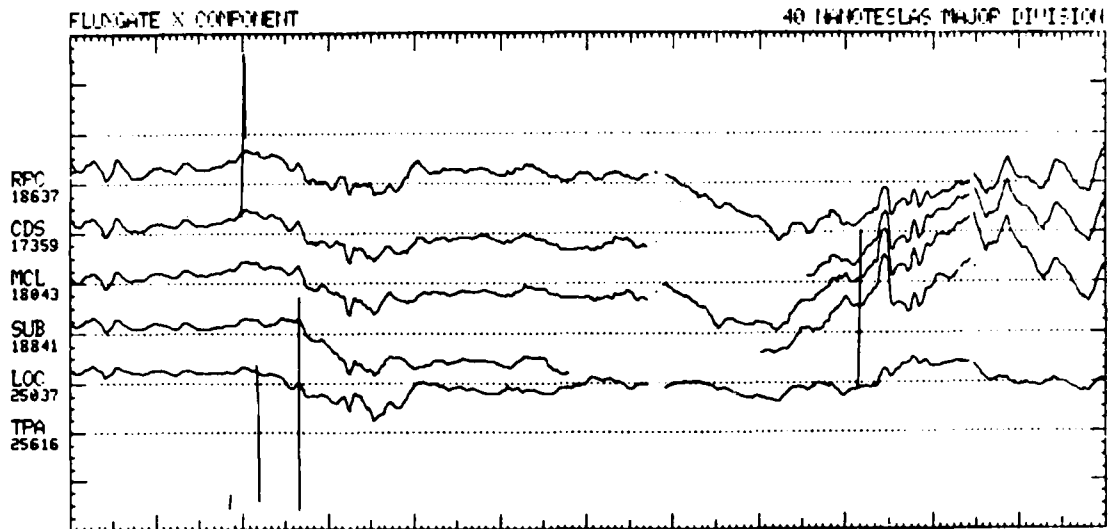
40 NANOTESLAS MAJOR DIVISION



FLUXGATE Z COMPONENT

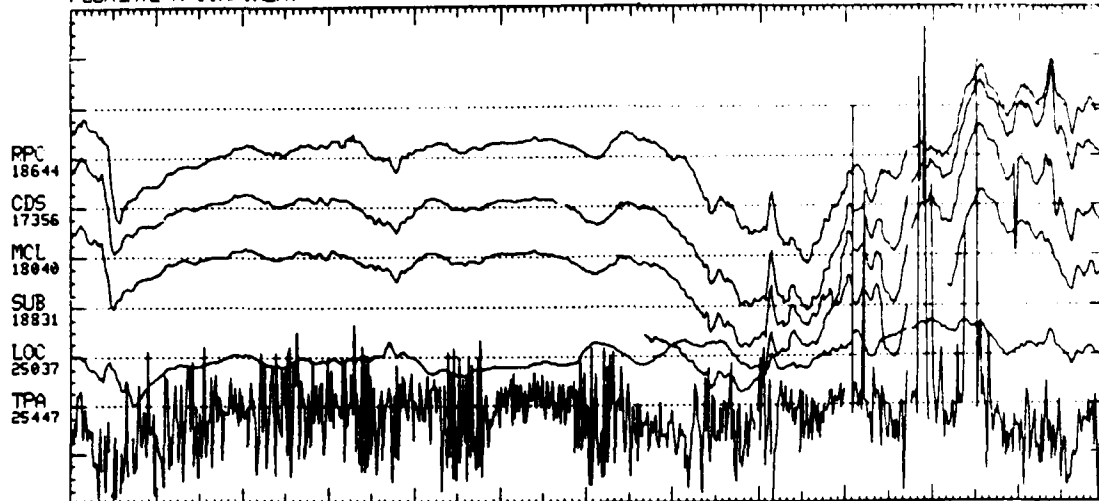
40 NANOTESLAS MAJOR DIVISION





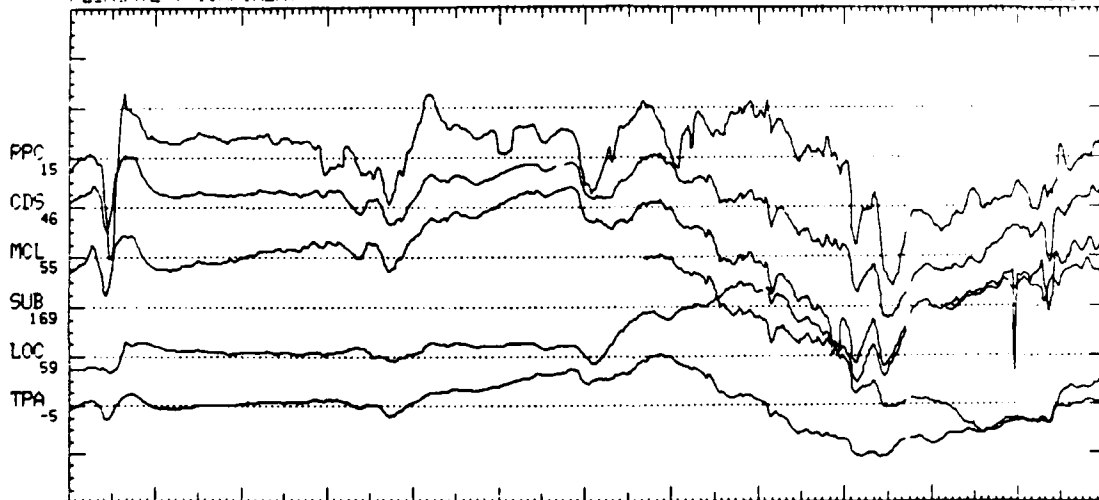
FLUGATE X COMPONENT

40 THROTELSHE INJOF DIVISION



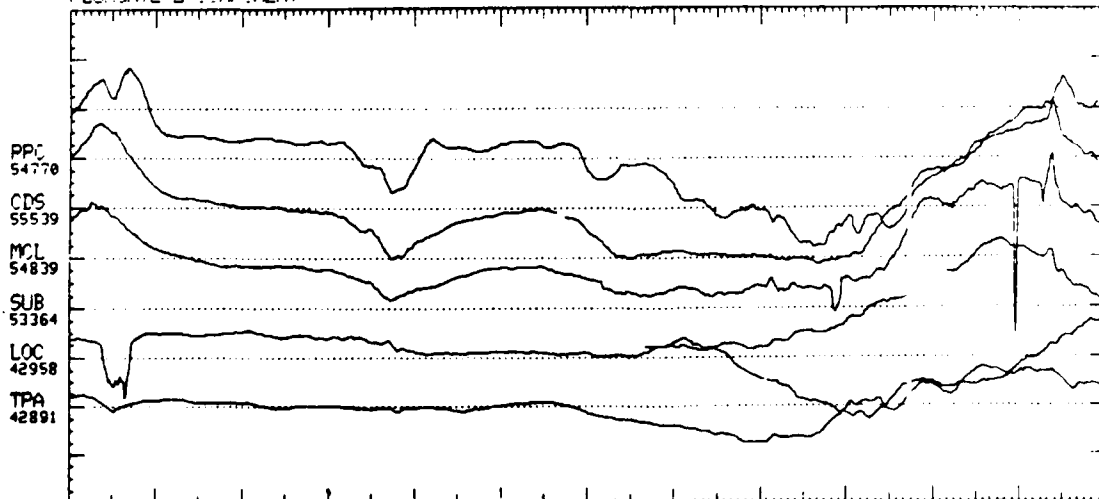
FLUGATE Y COMPONENT

40 THROTELSHE INJOF DIVISION



FLUGATE Z COMPONENT

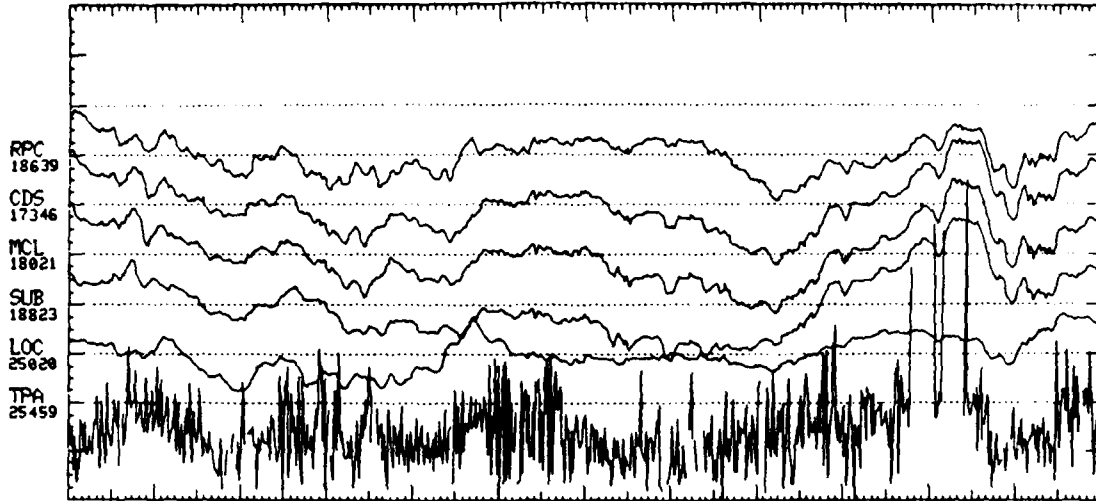
40 THROTELSHE INJOF DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 JUN 79 (DAY 79.173) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

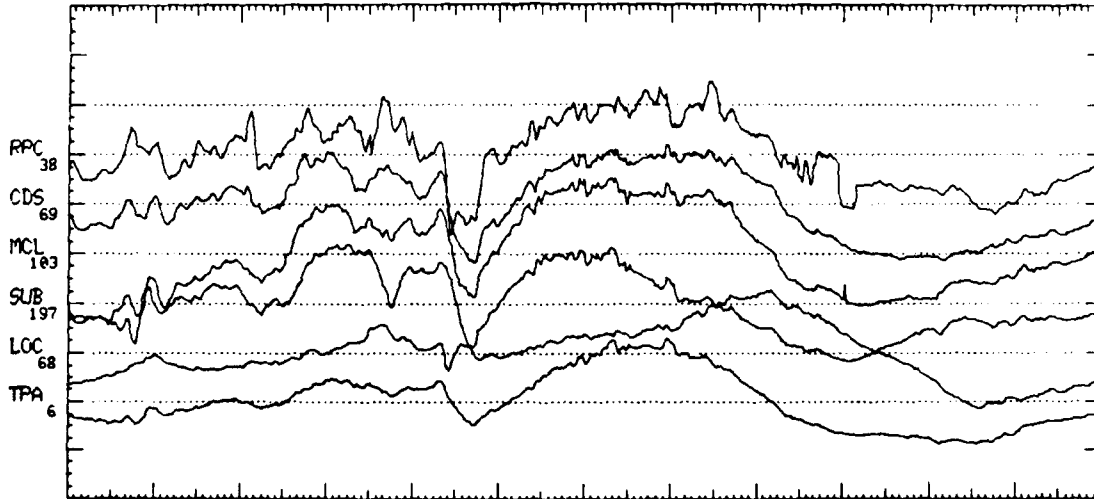
FLURGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



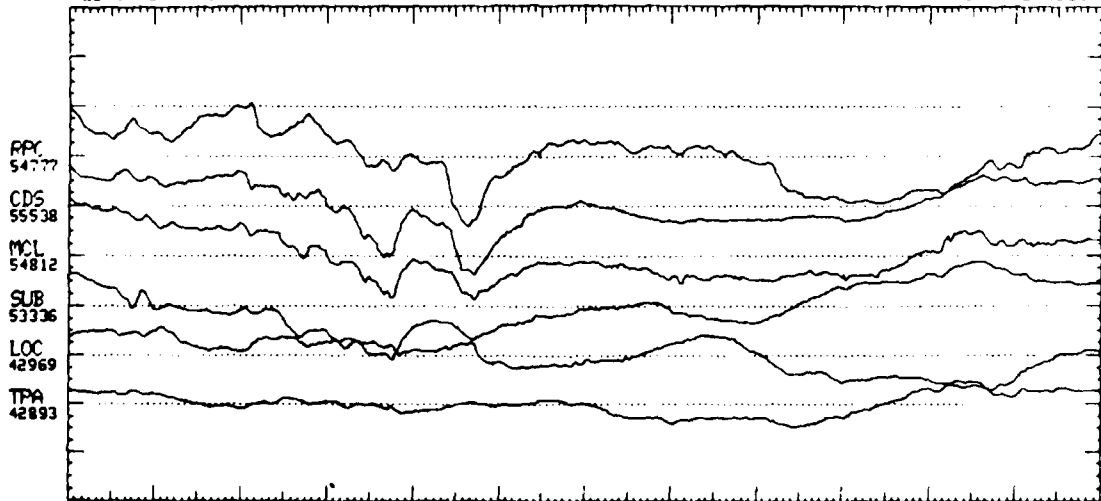
FLURGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLURGATE Z COMPONENT

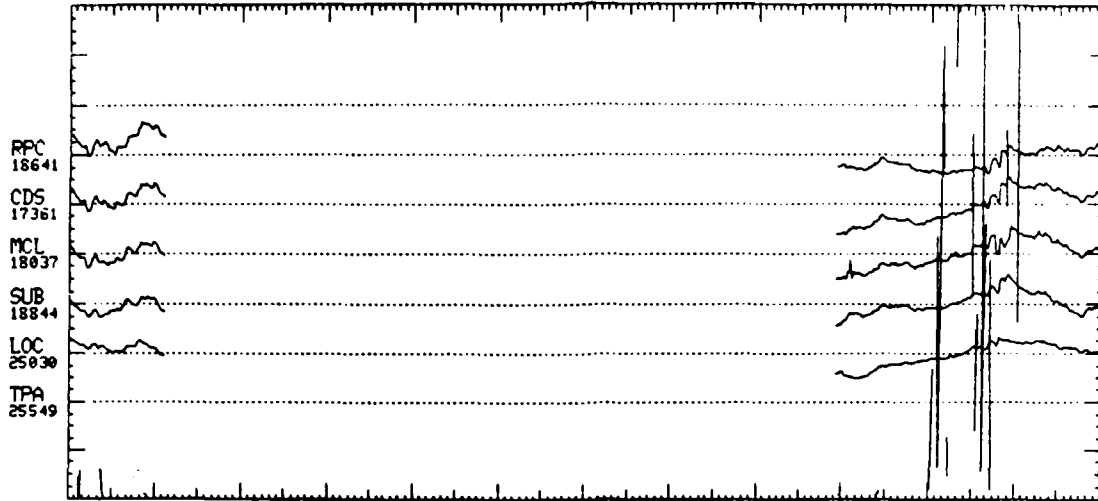
40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 JUN 79 (DAY 79.174) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

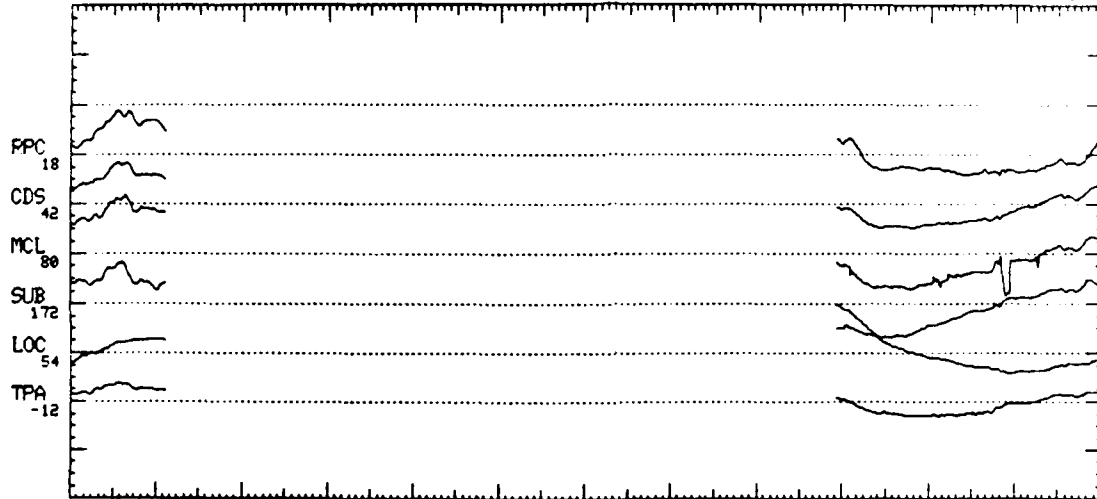
FLIGHTGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



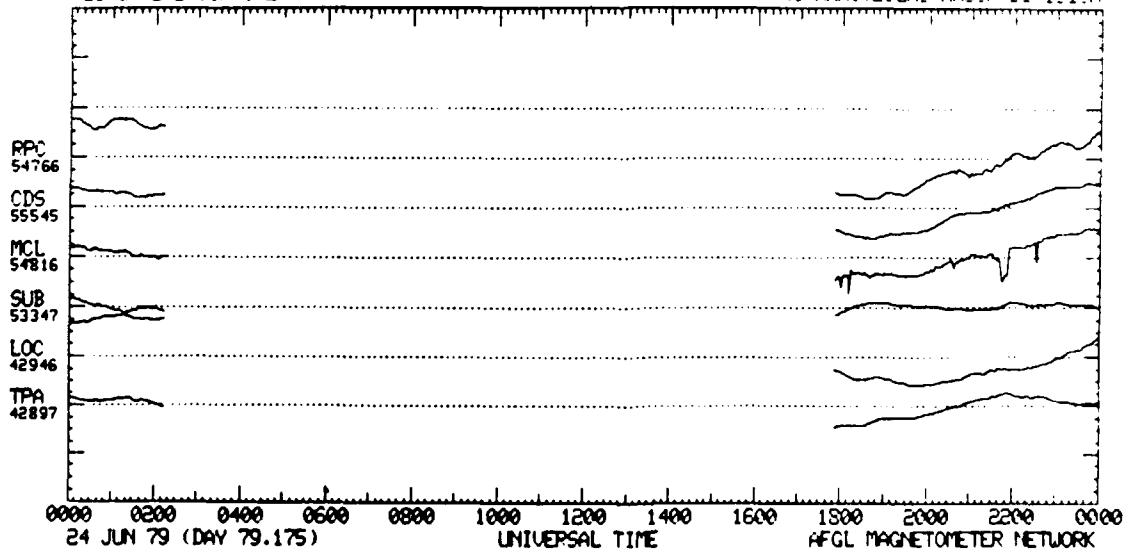
FLIGHTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLIGHTGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



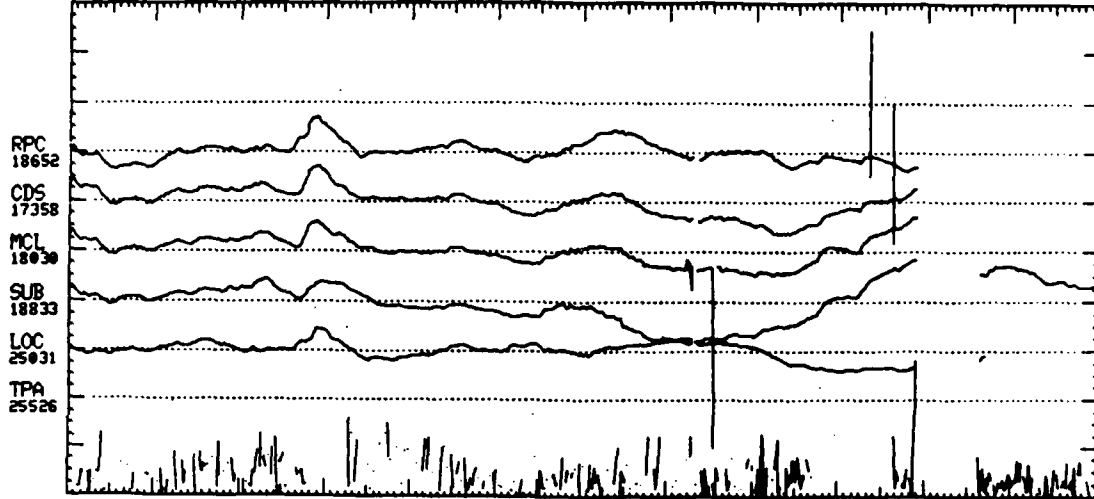
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
24 JUN 79 (DAY 79.175)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

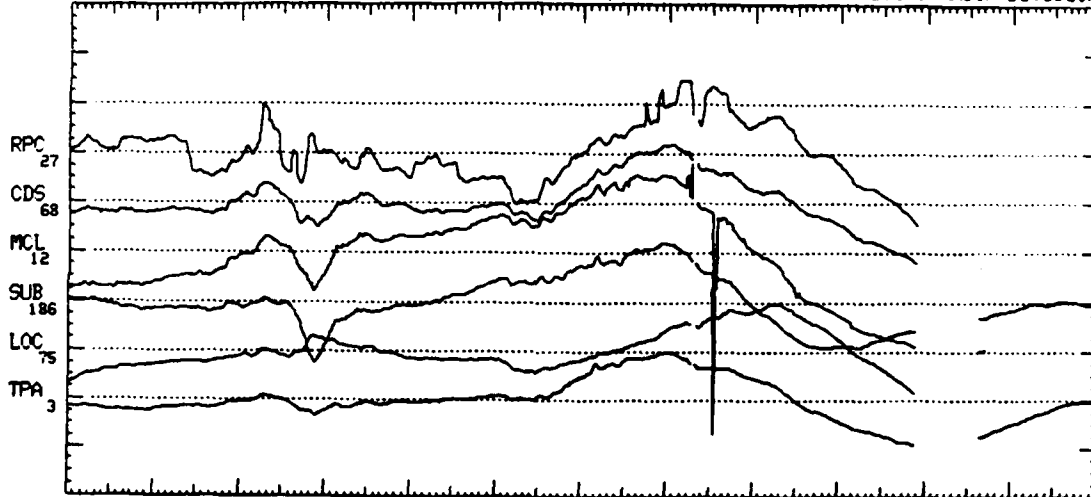
FLLNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



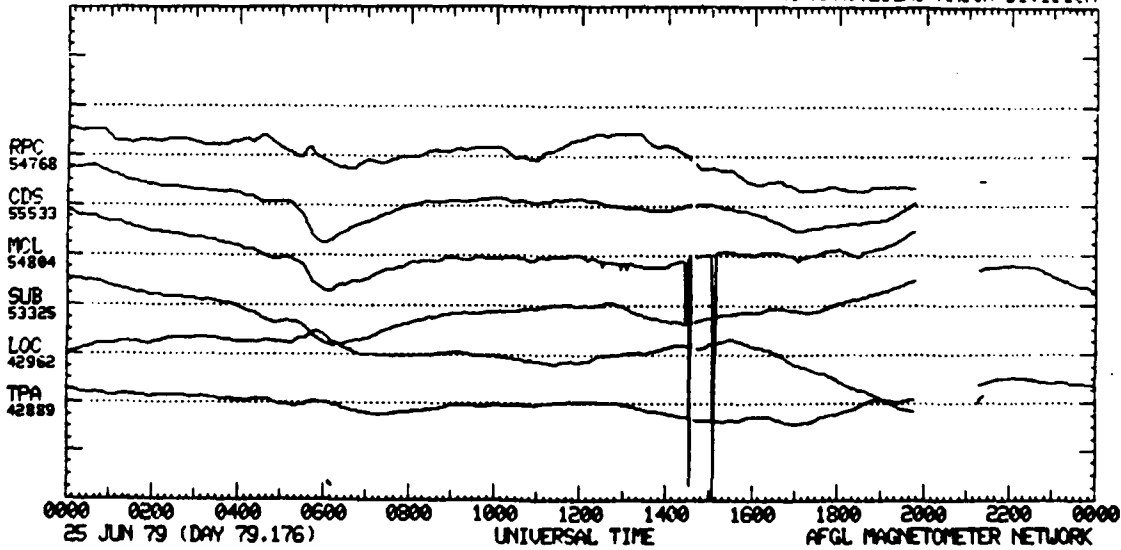
FLLNGATE Y COMPONENT

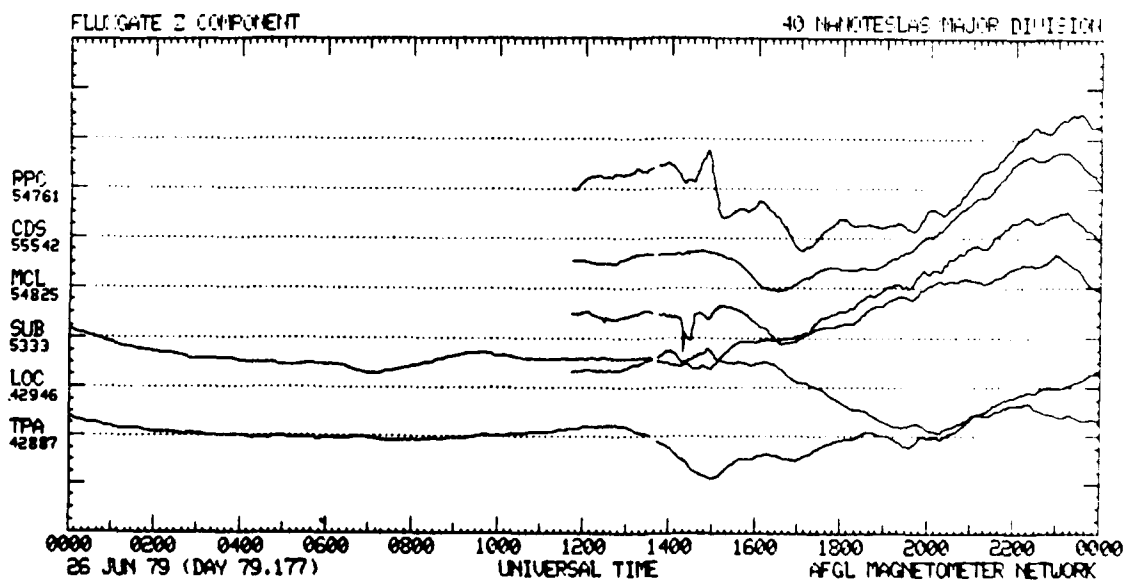
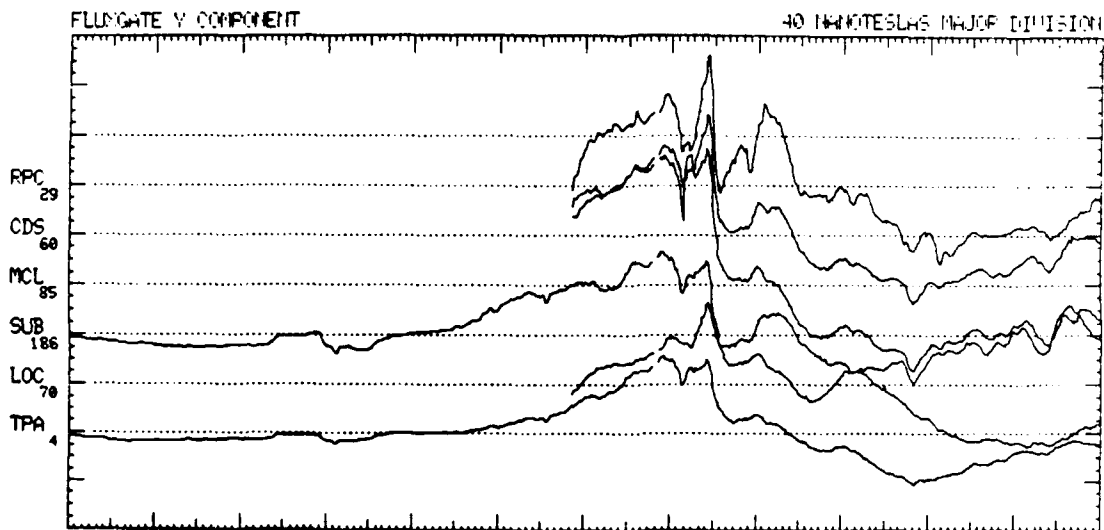
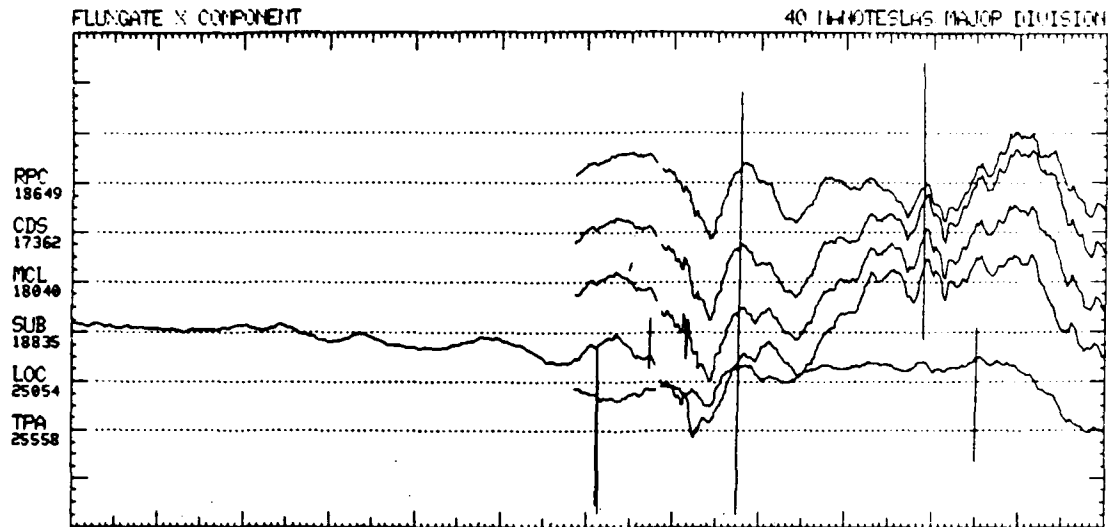
40 NANOTESLAS/MAJOR DIVISION

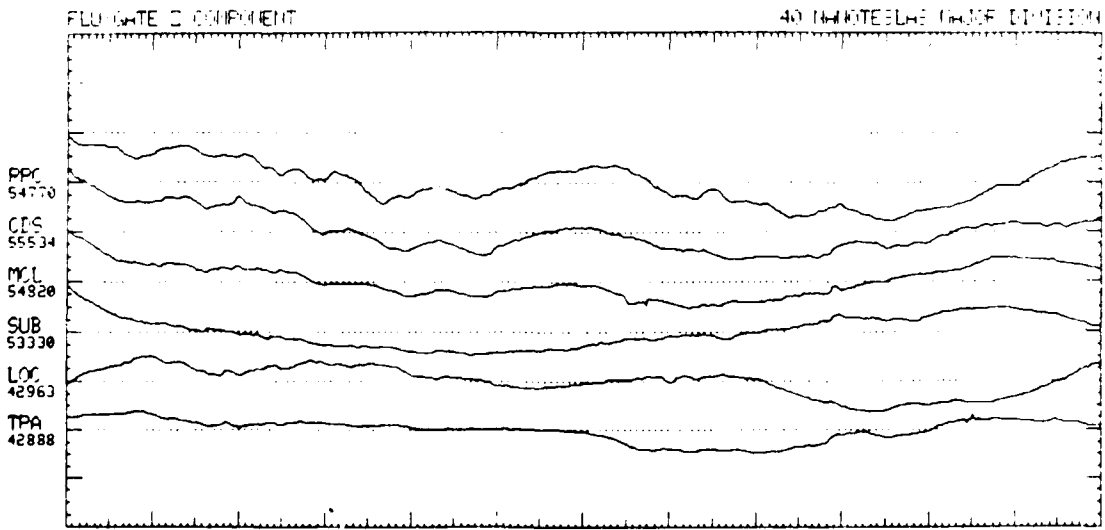
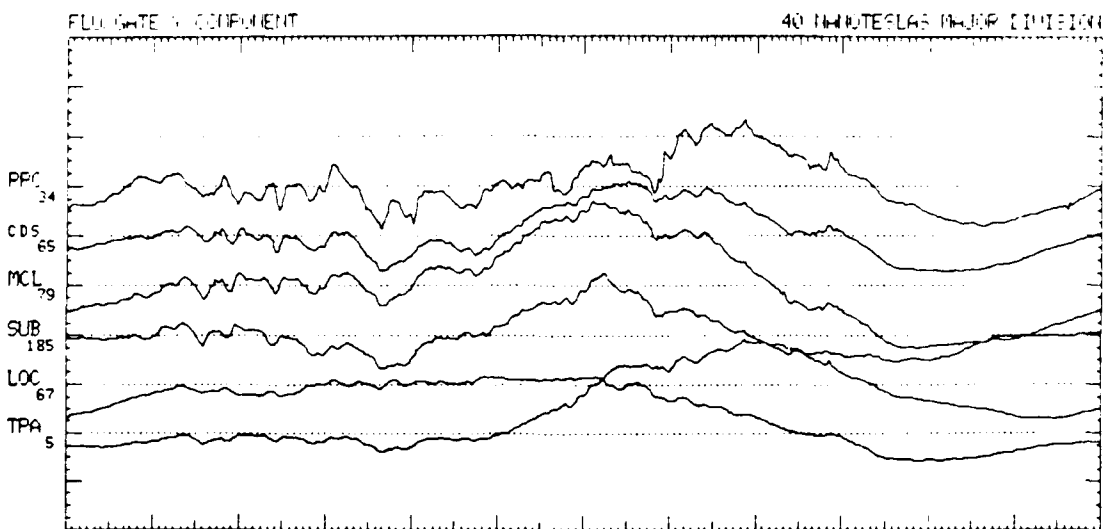
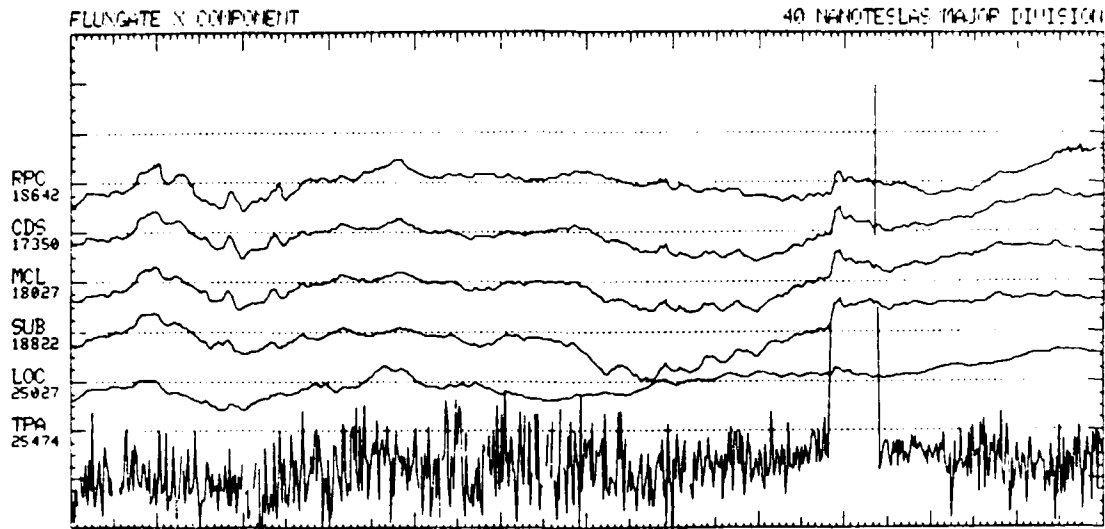


FLLNGATE Z COMPONENT

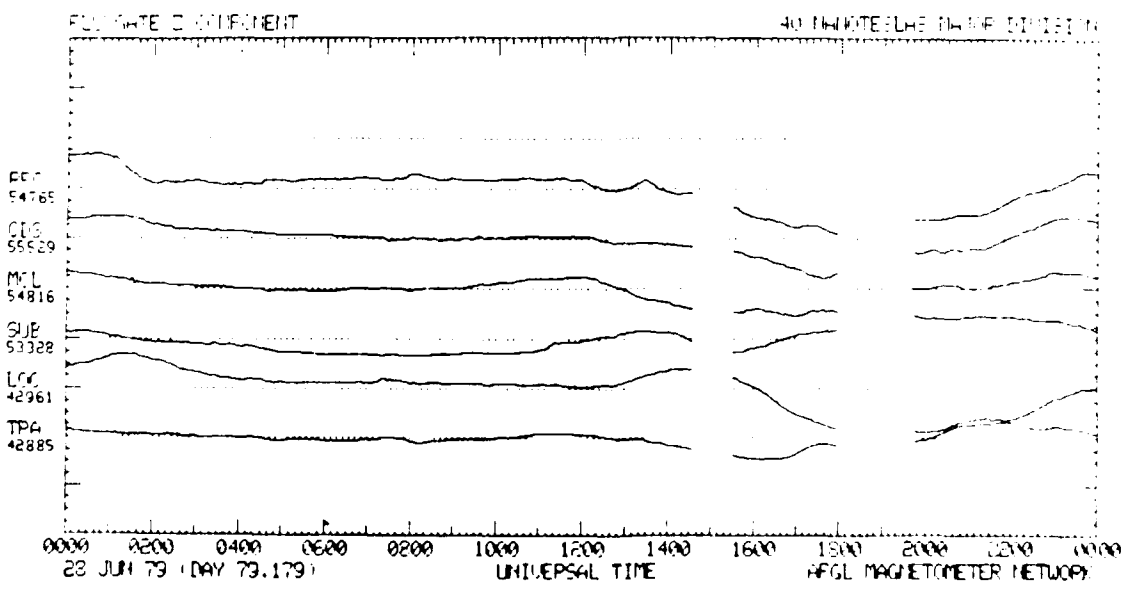
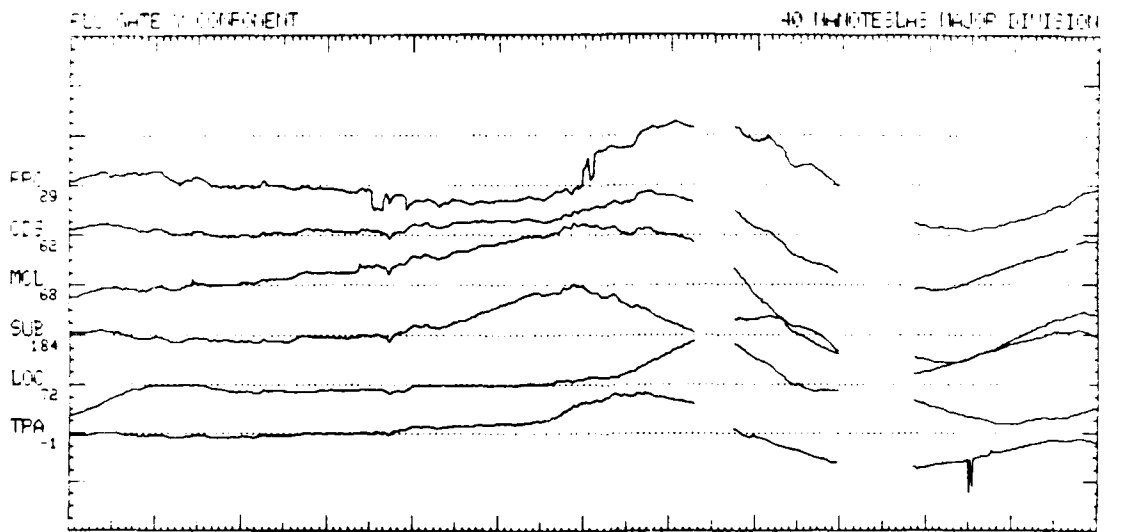
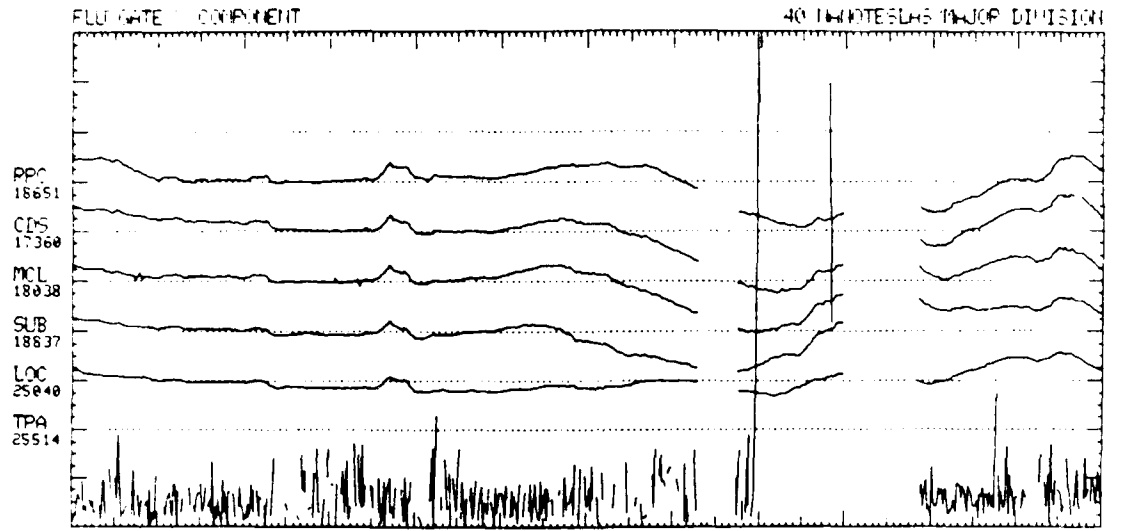
40 NANOTESLAS/MAJOR DIVISION

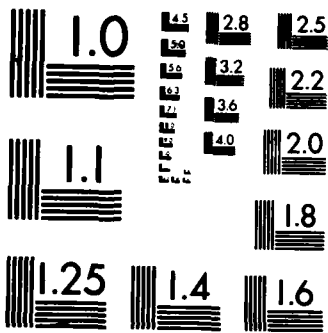




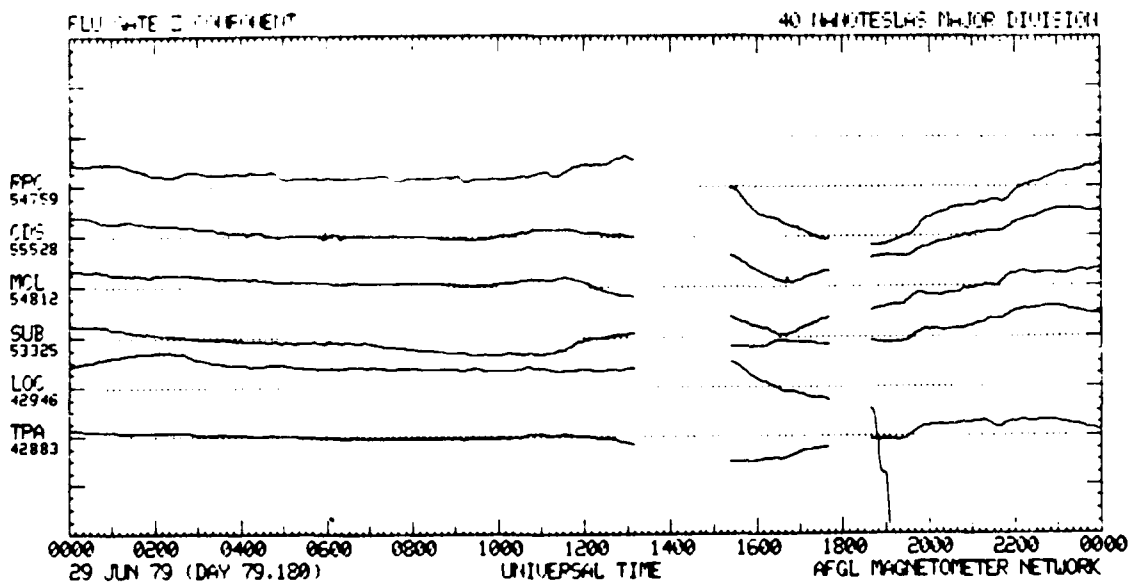
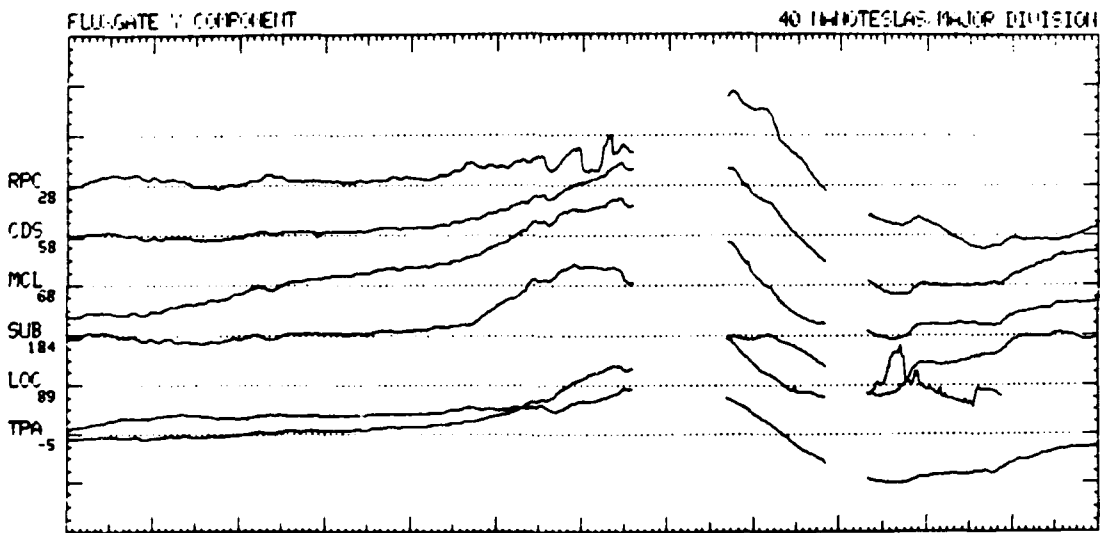
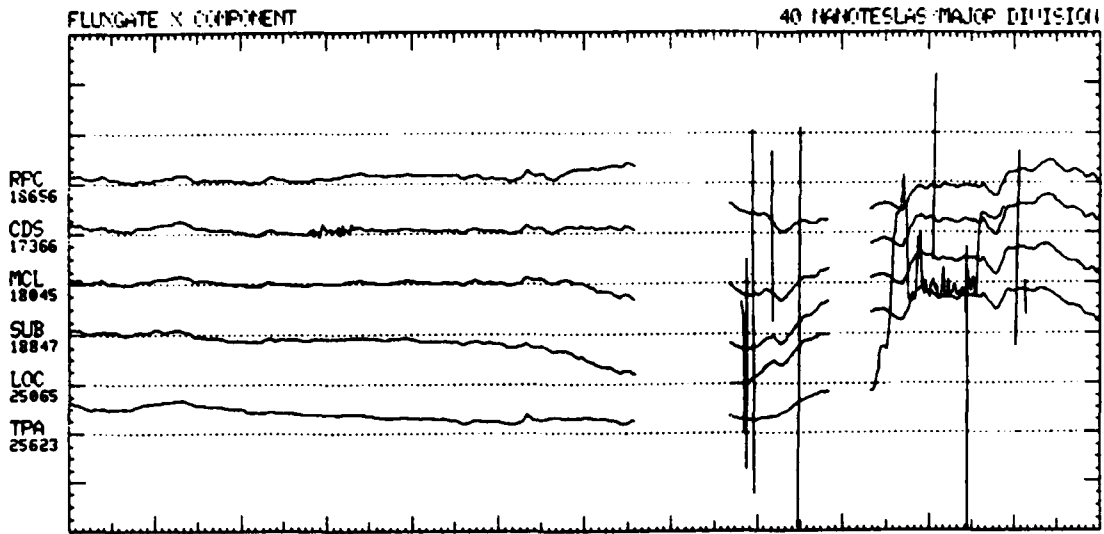


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 JUN 79 (DAY 79.173) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



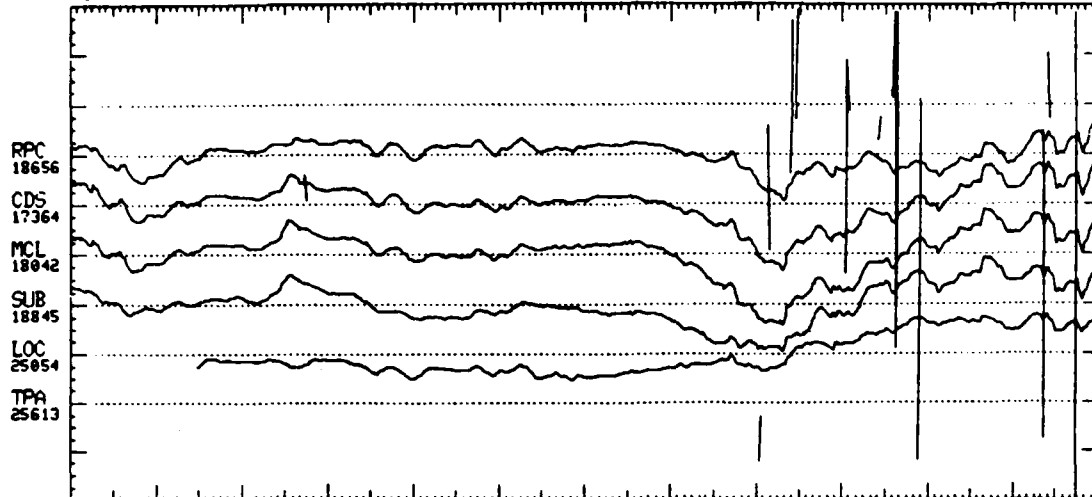


XERO COPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



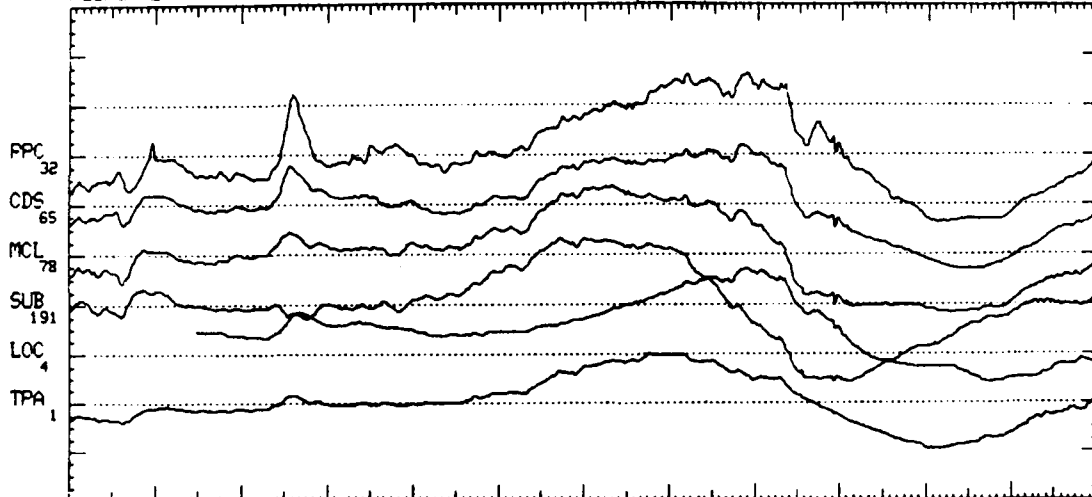
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



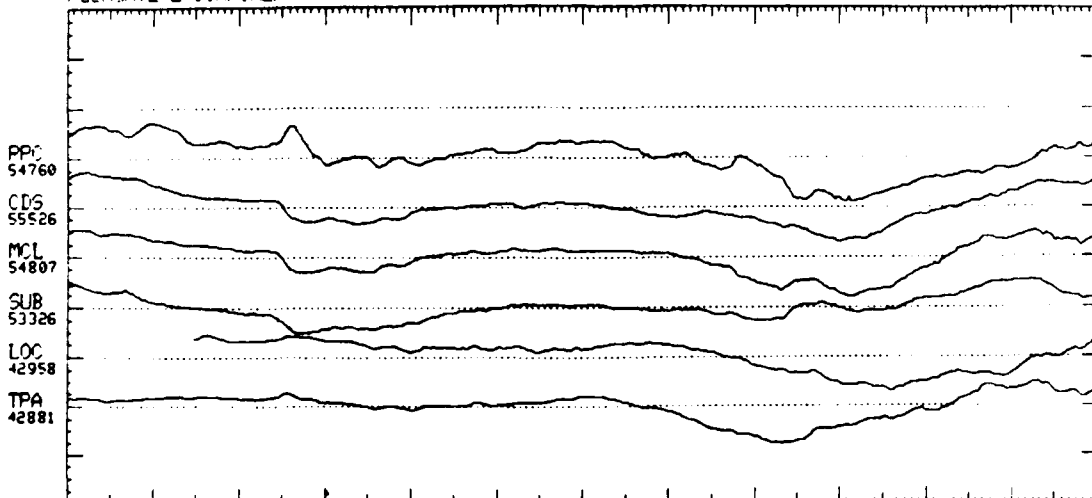
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

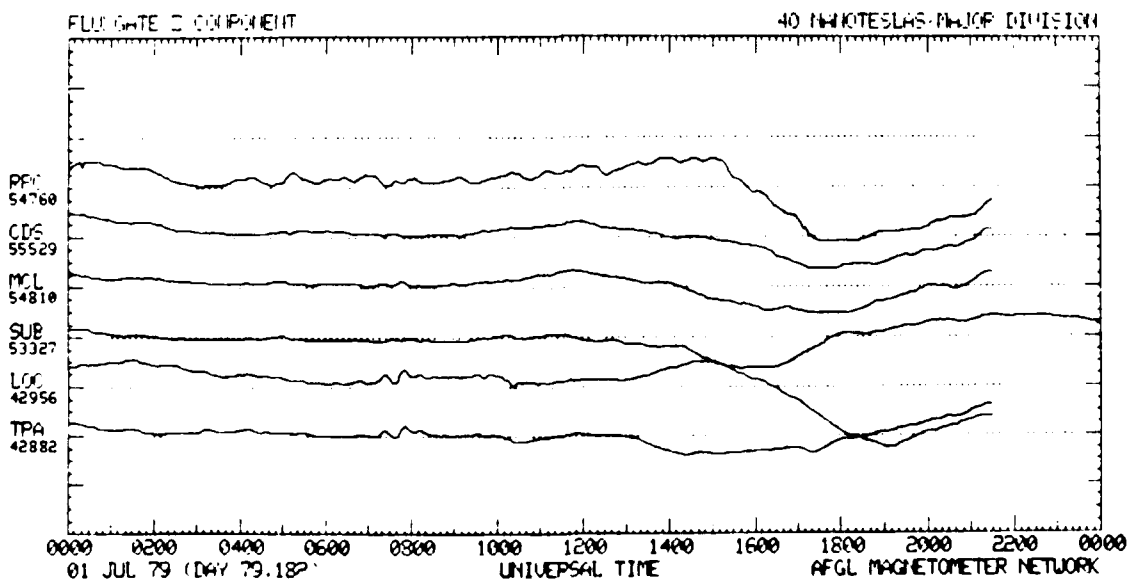
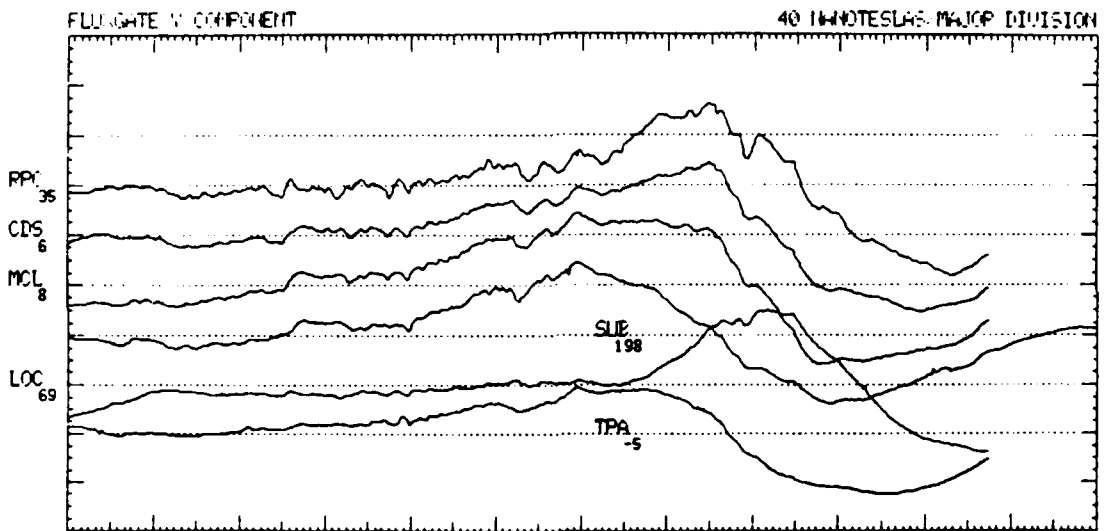
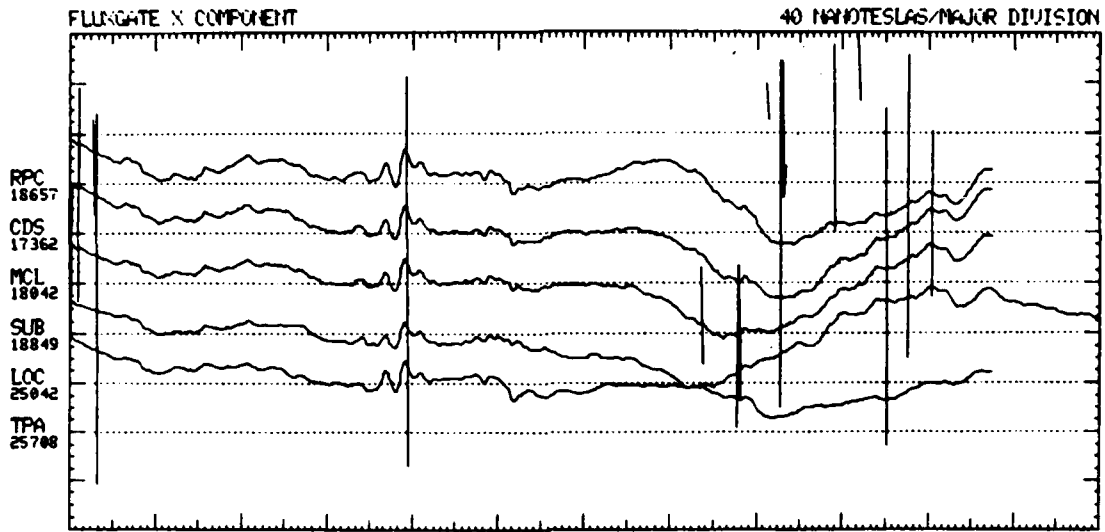


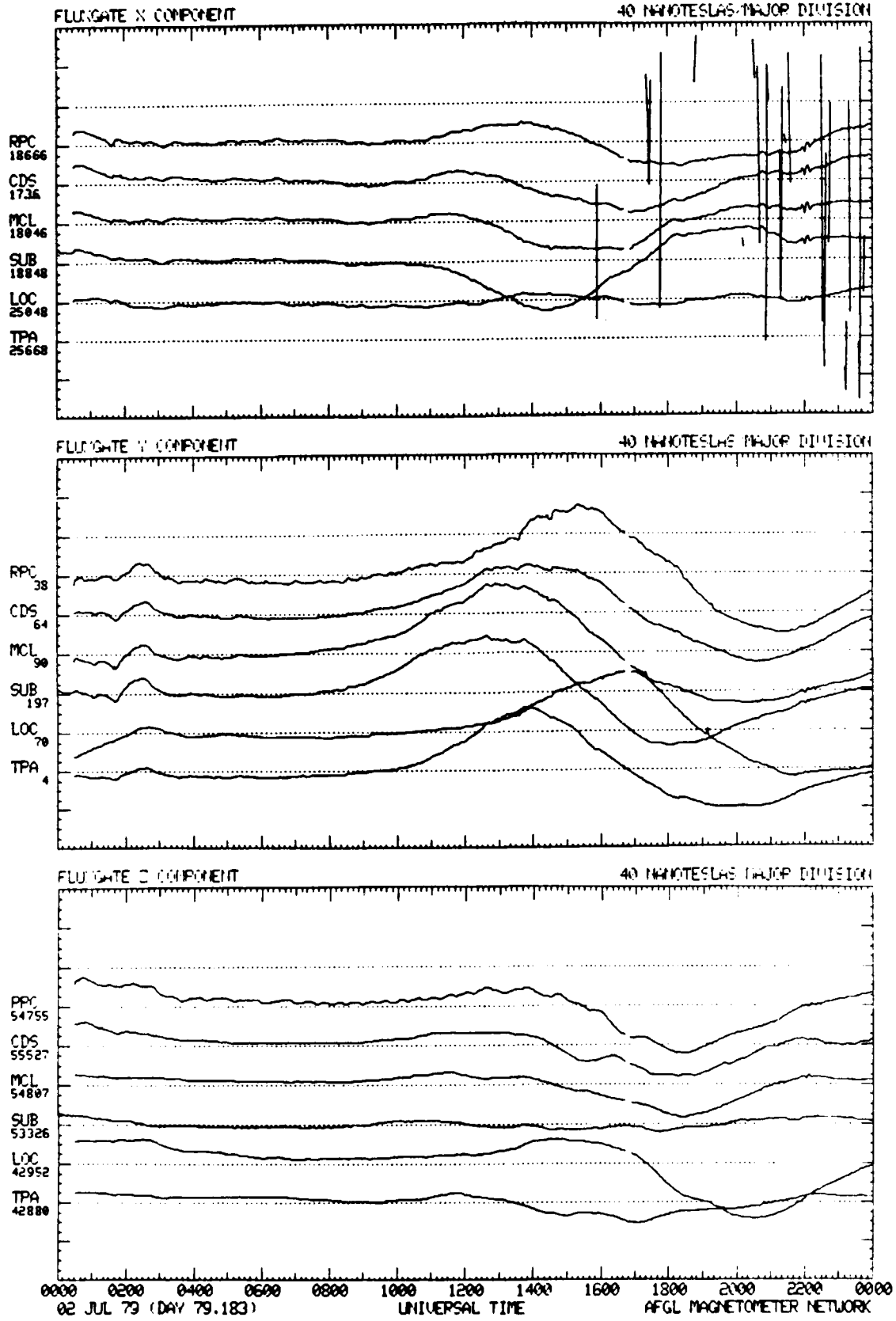
FLIGHTLINE Z COMPONENT

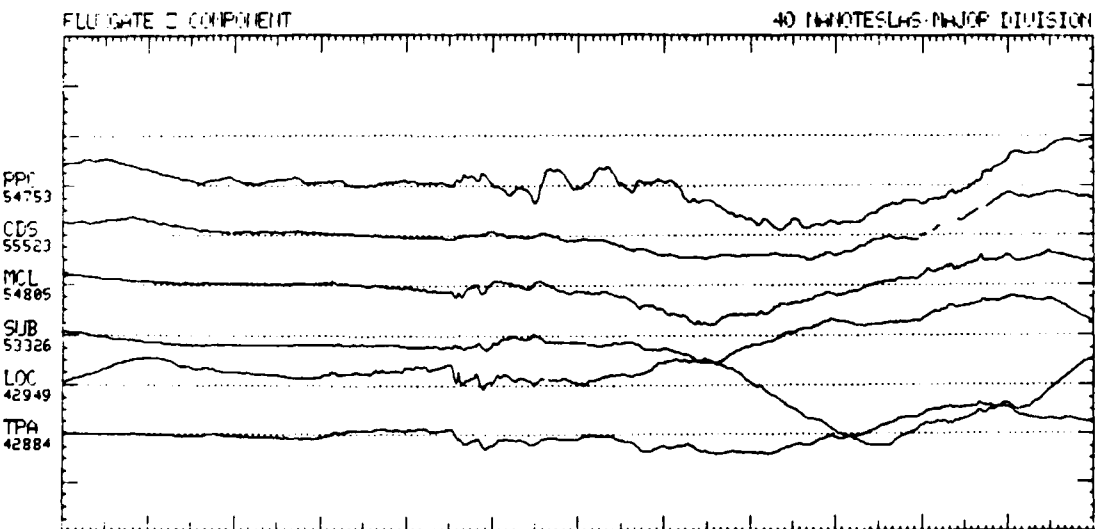
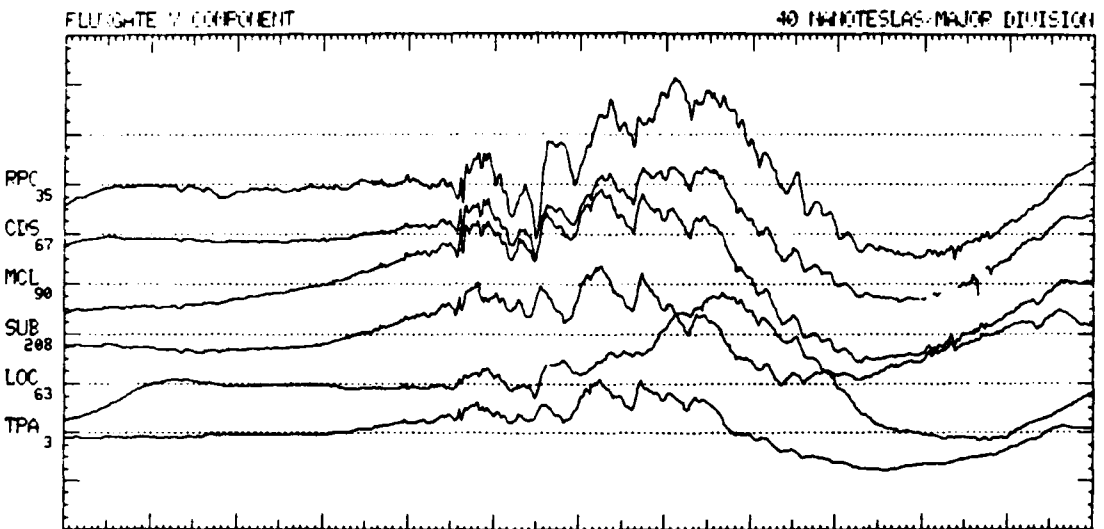
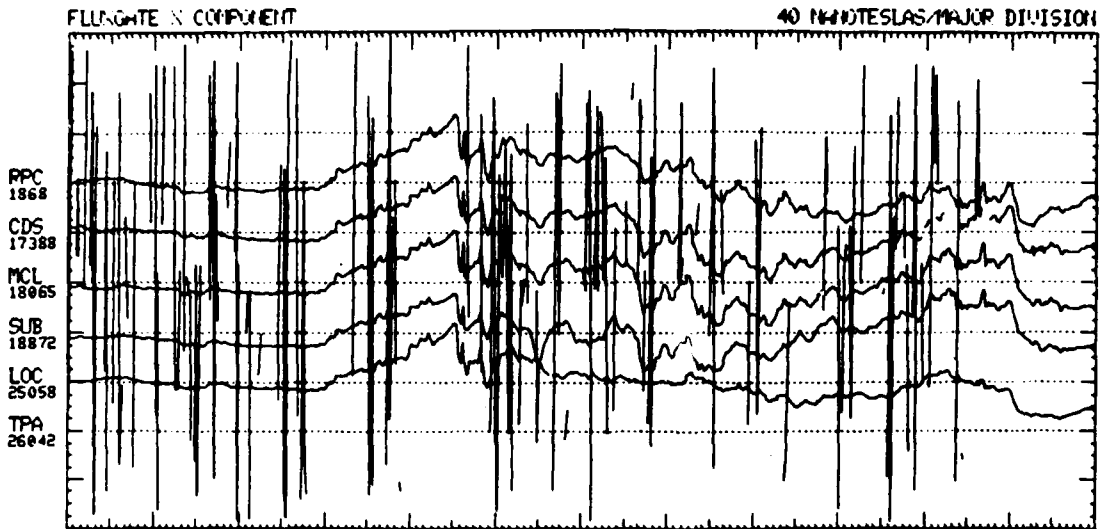
40 NANOTESLAS MAJOR DIVISION



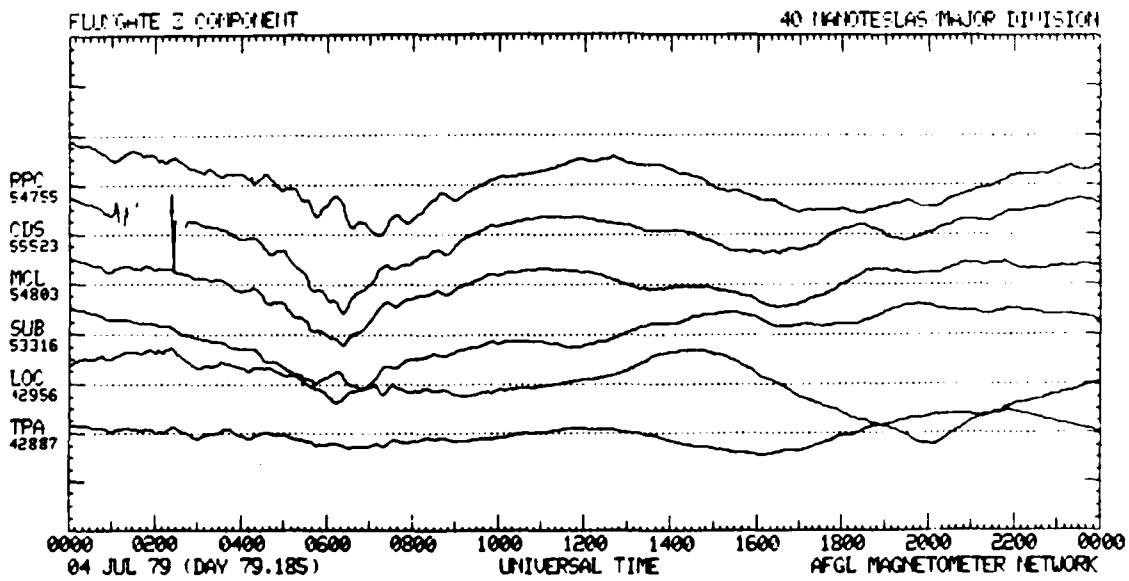
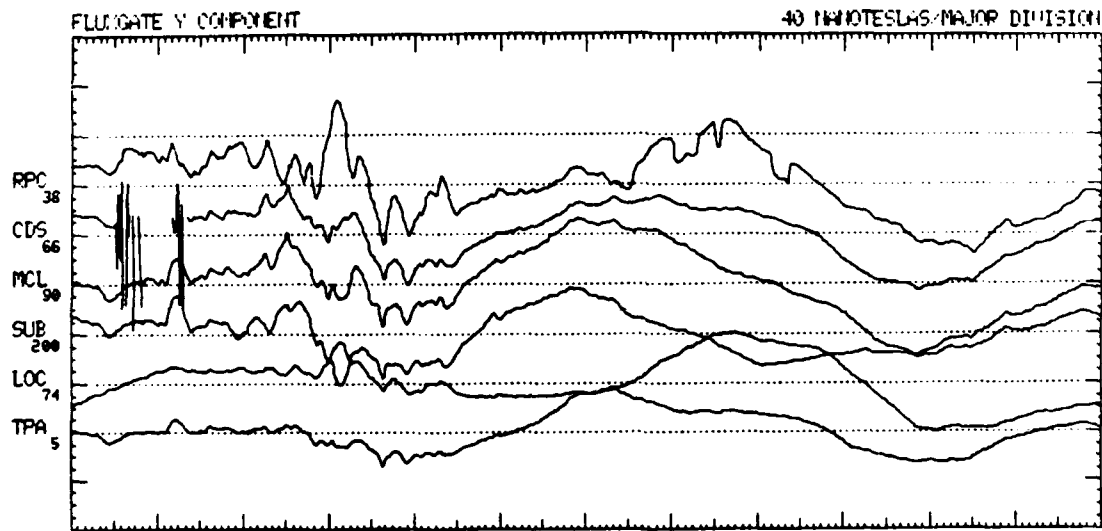
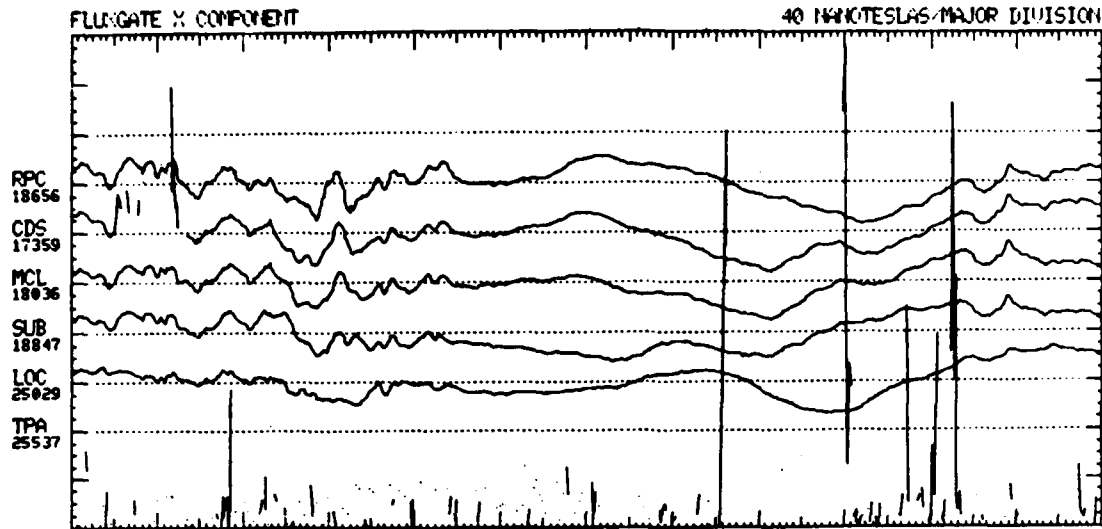
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
30 JUN 79 (DAY 79.181) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

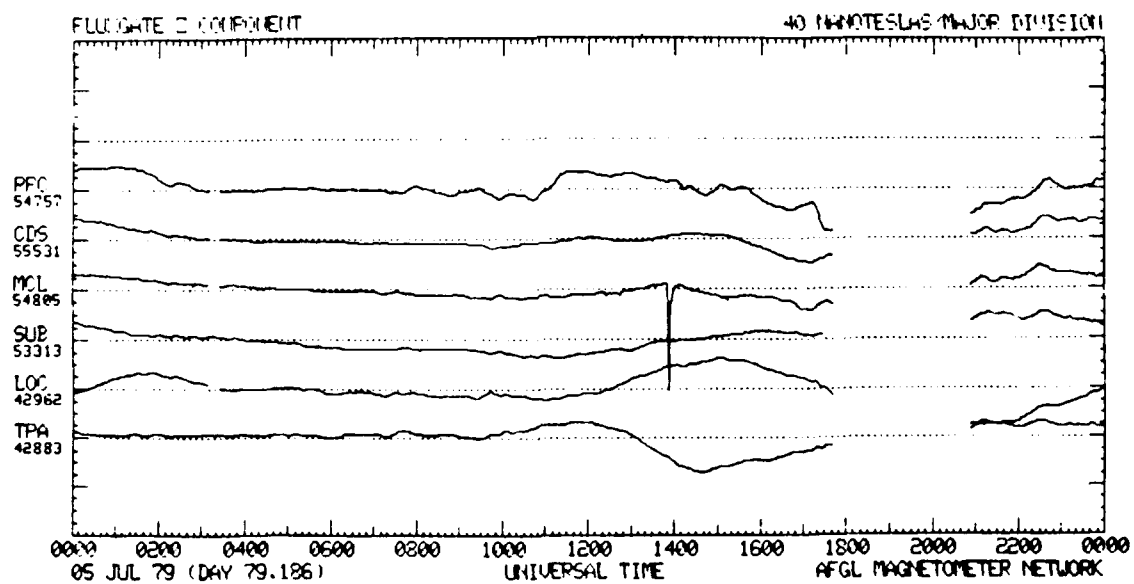
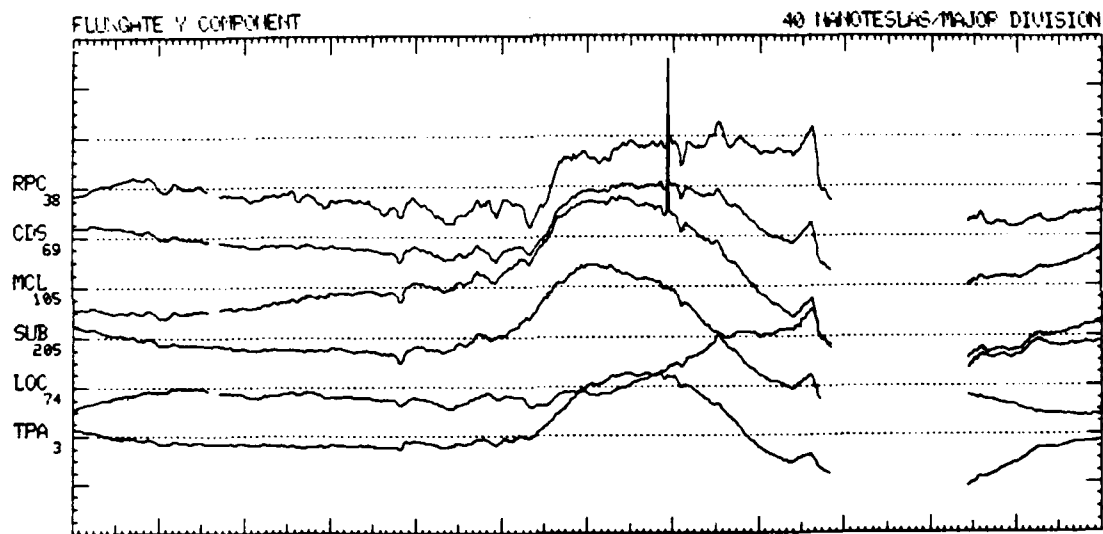
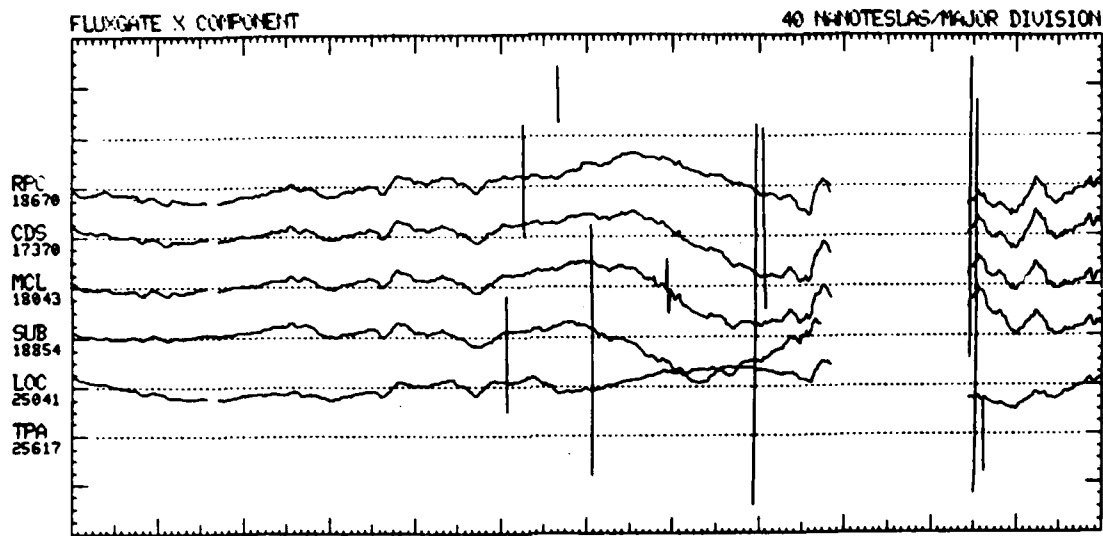


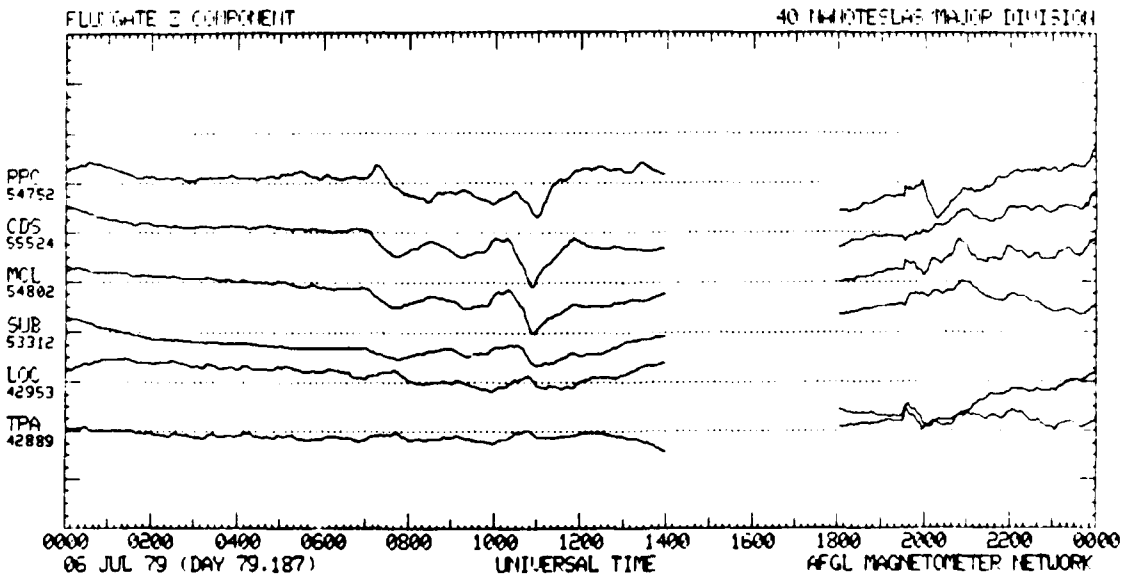
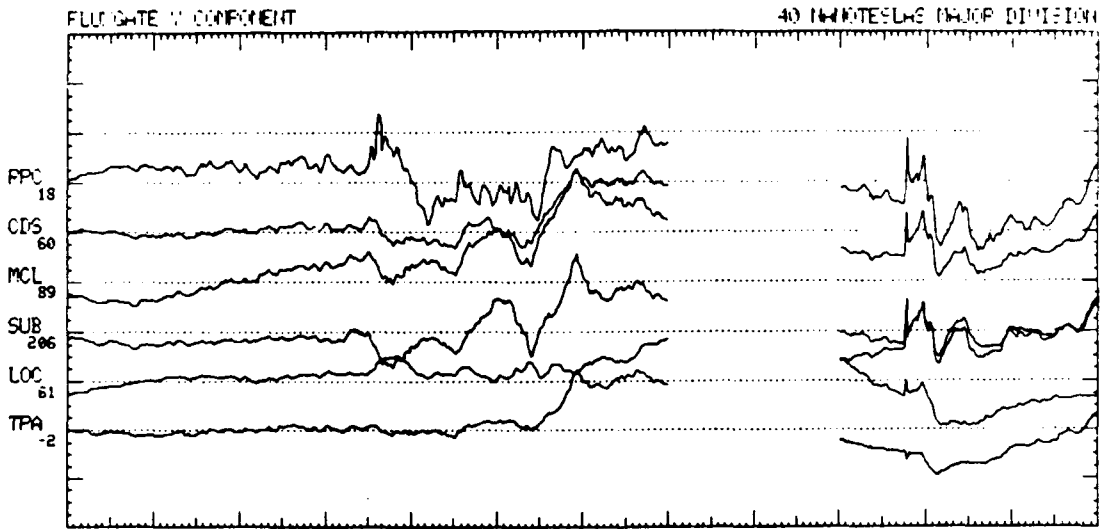
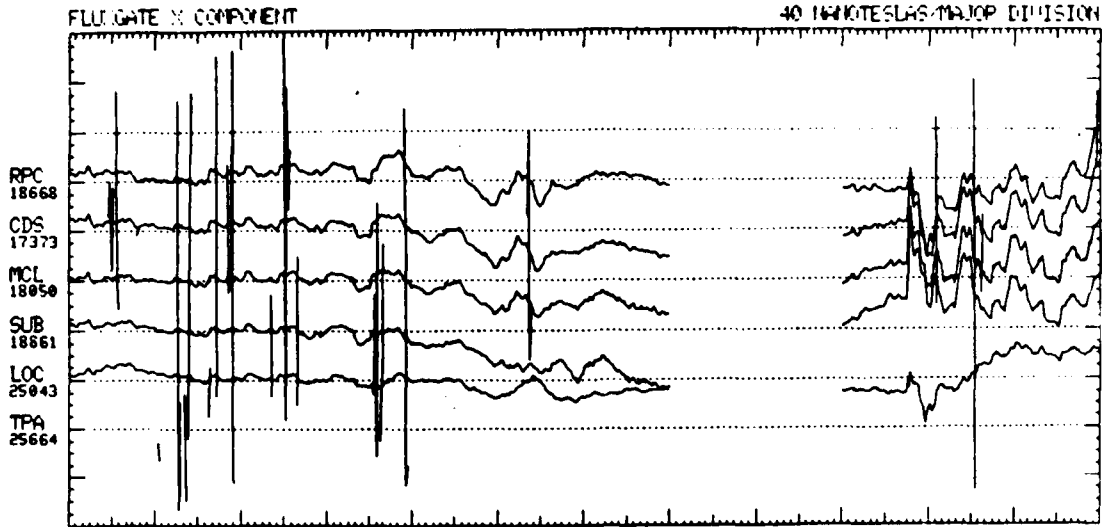




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 03 JUL 79 (DAY 79.184) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

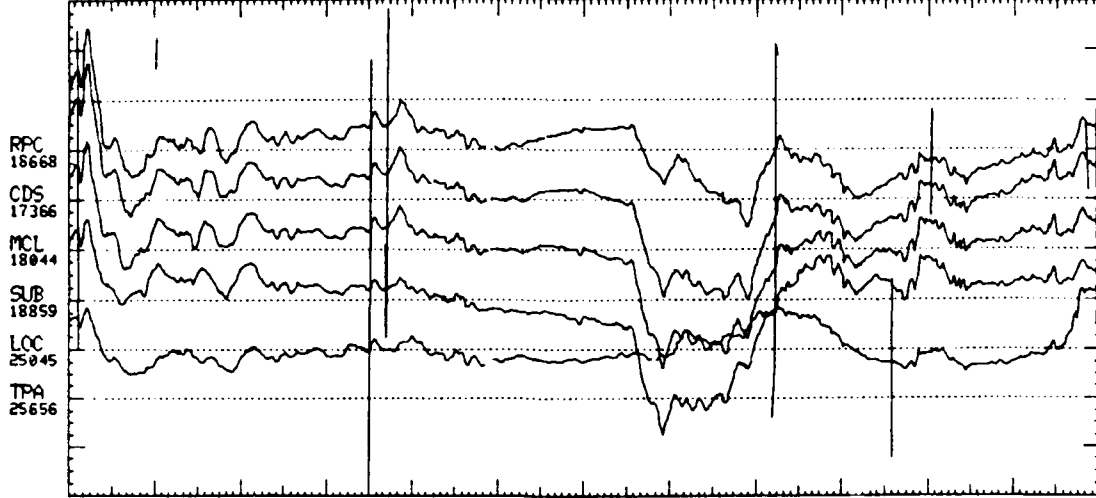






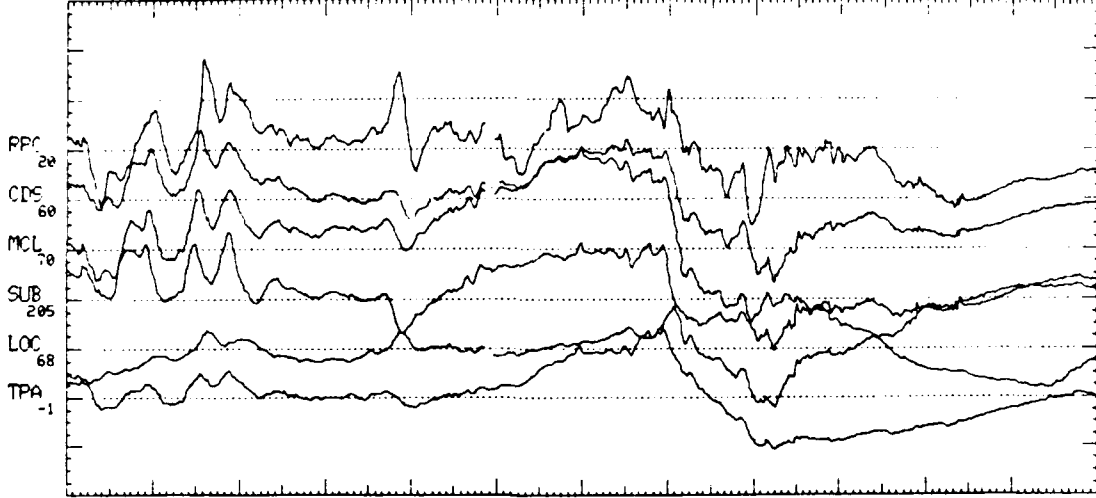
FLIGHTLINE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



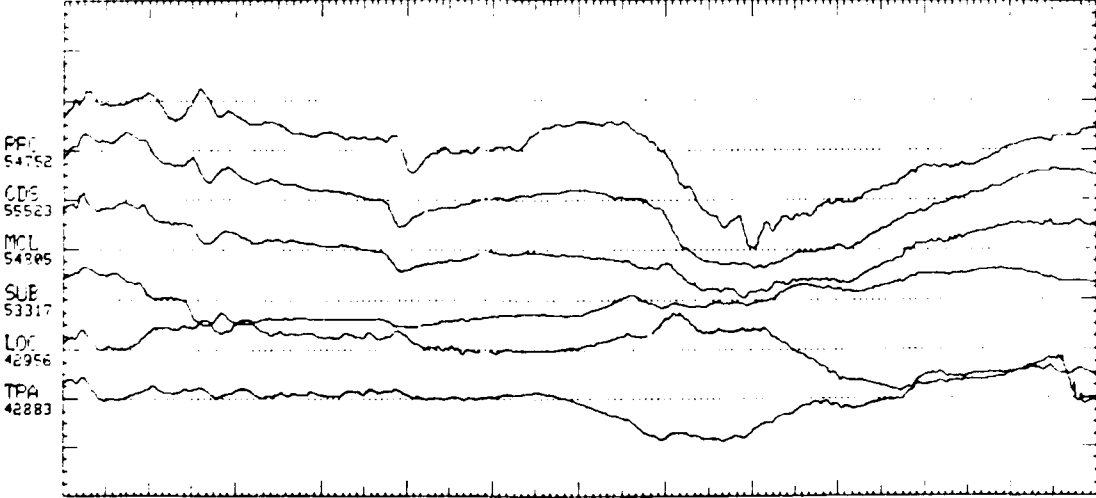
FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

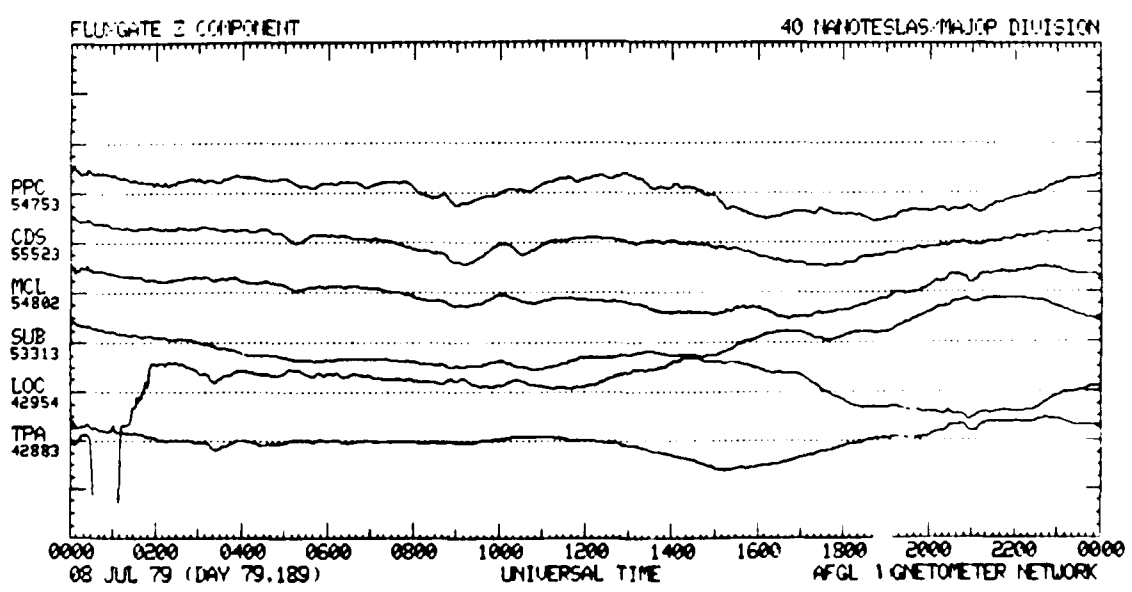
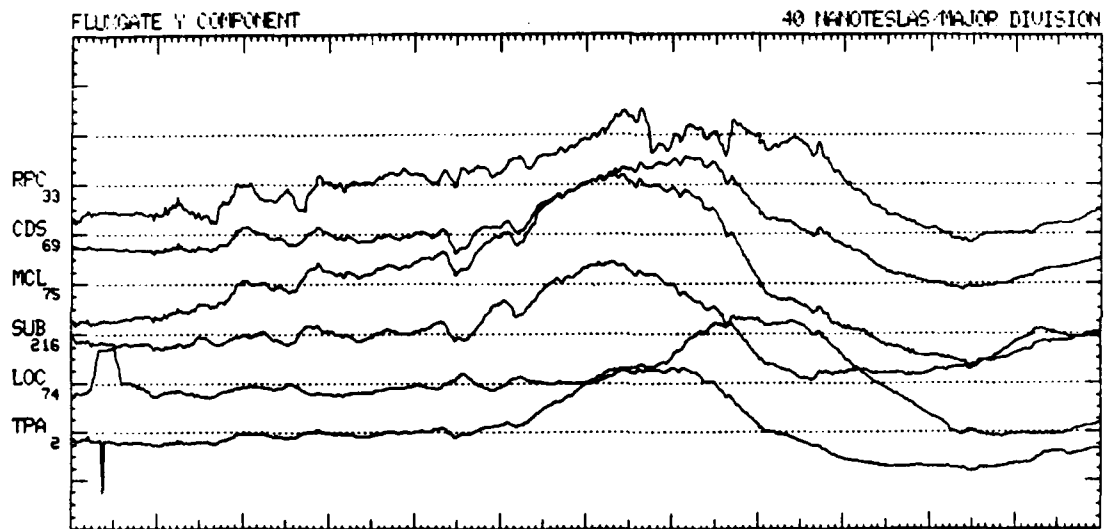
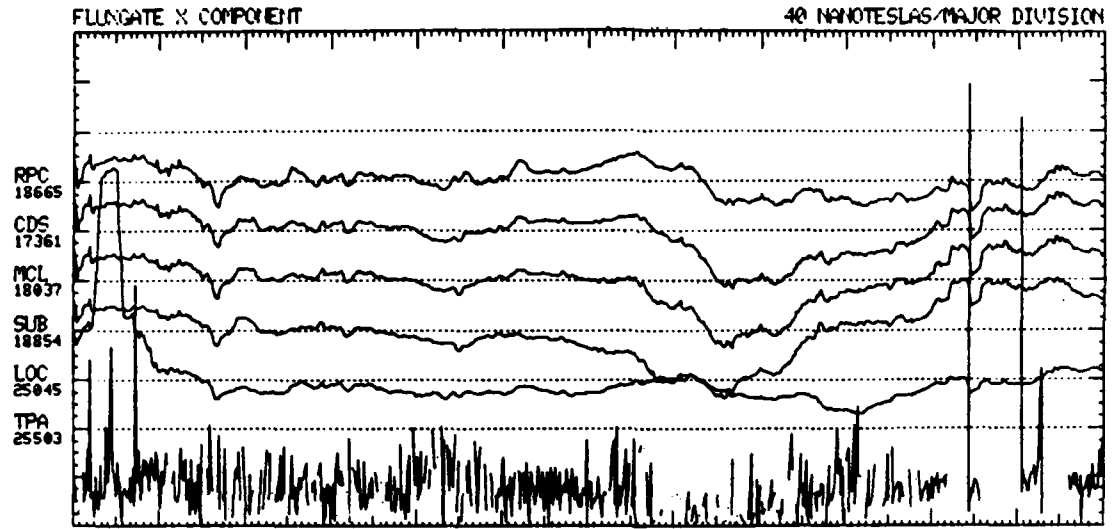


FLIGHTLINE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

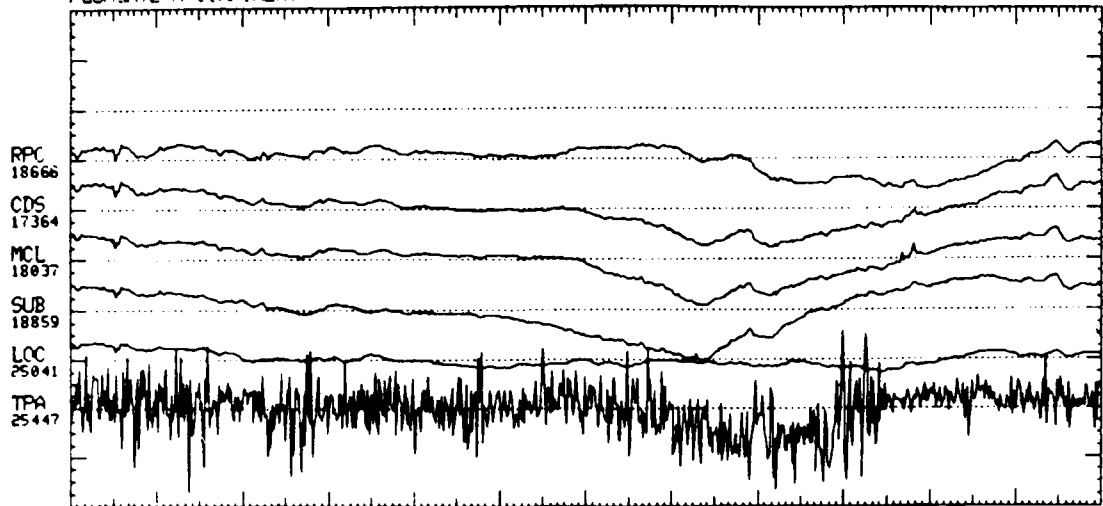


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 JUL 79 (DAY 79.188) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



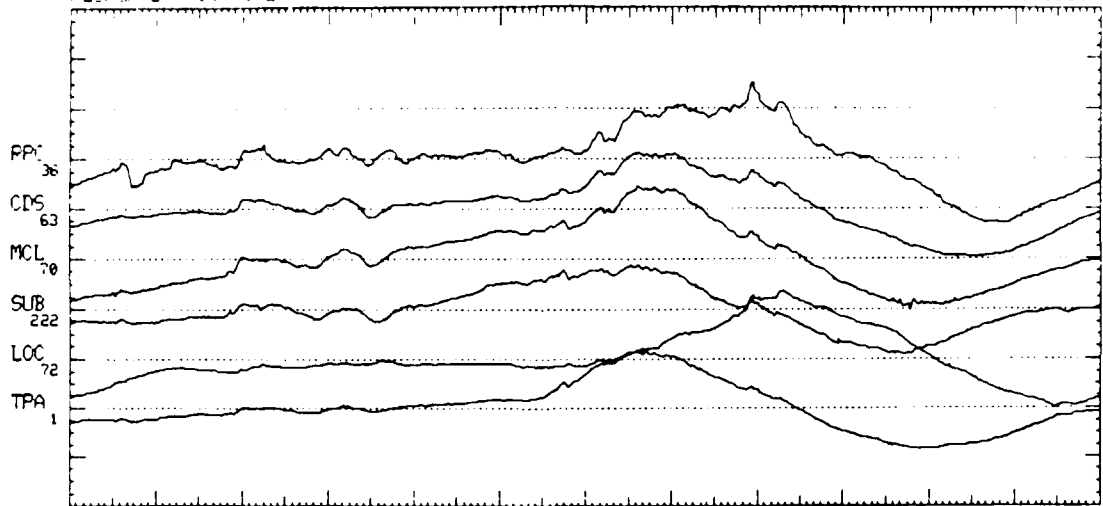
FLIGHTLINE X COMPONENT

40 NANOTESLA MAJOR DIVISION



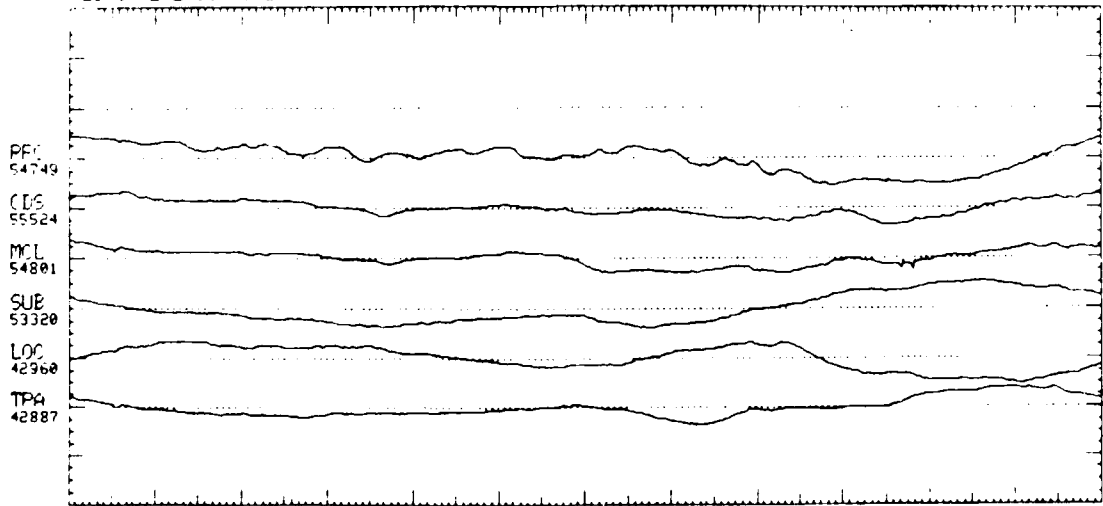
FLIGHTLINE Y COMPONENT

40 NANOTESLA MAJOR DIVISION

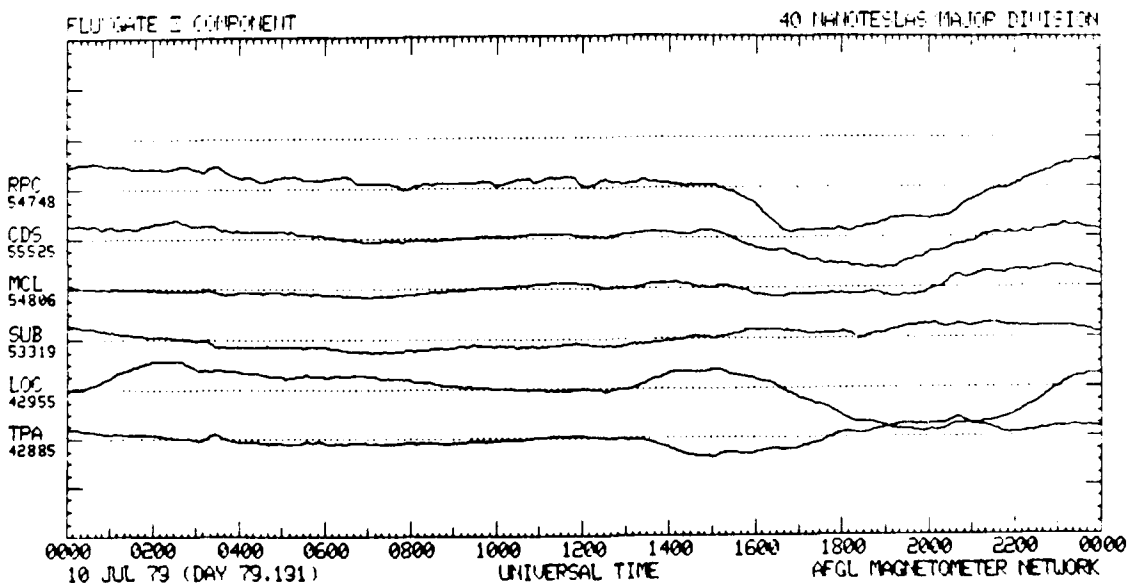
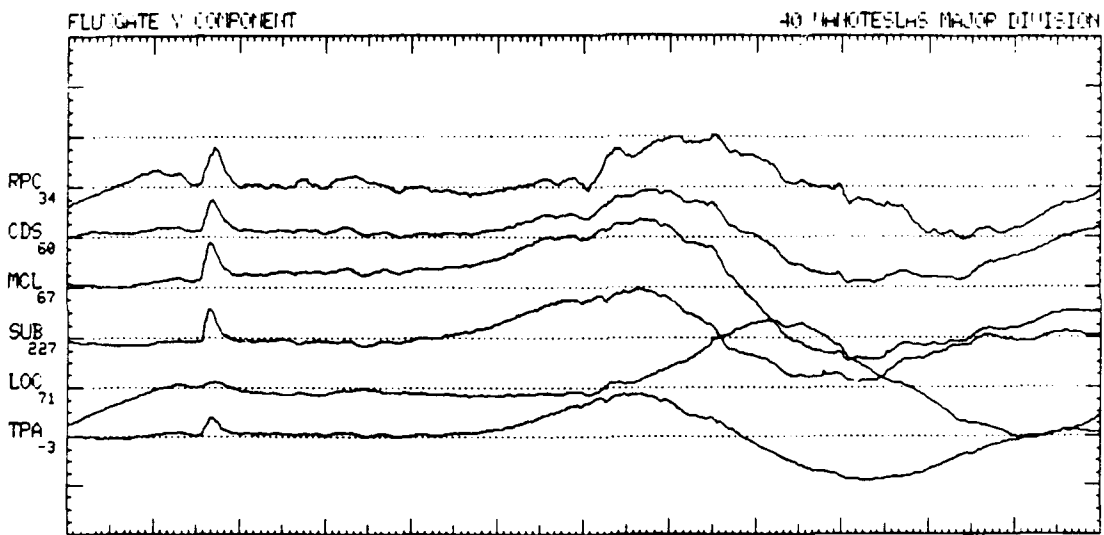
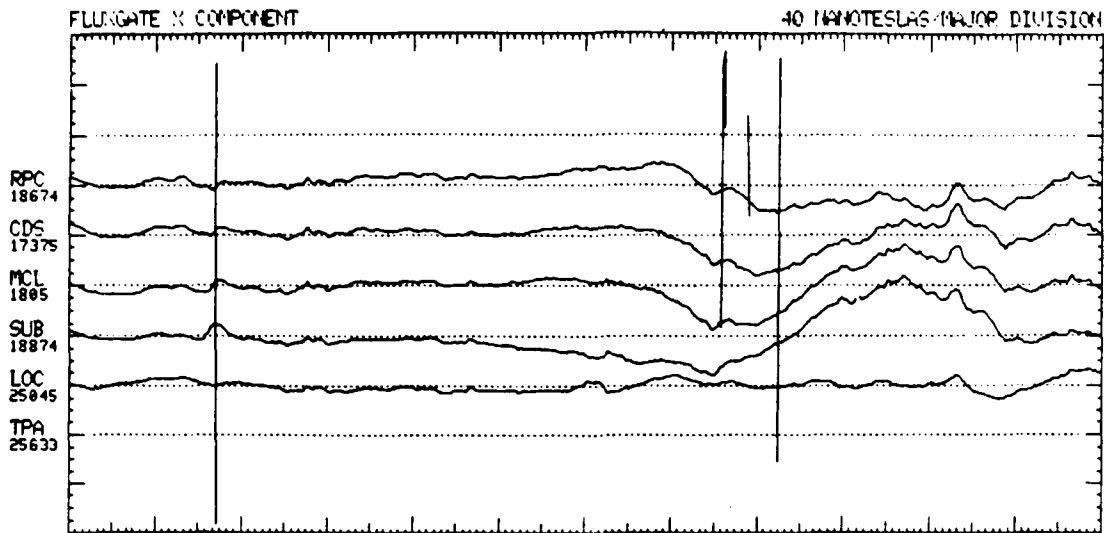


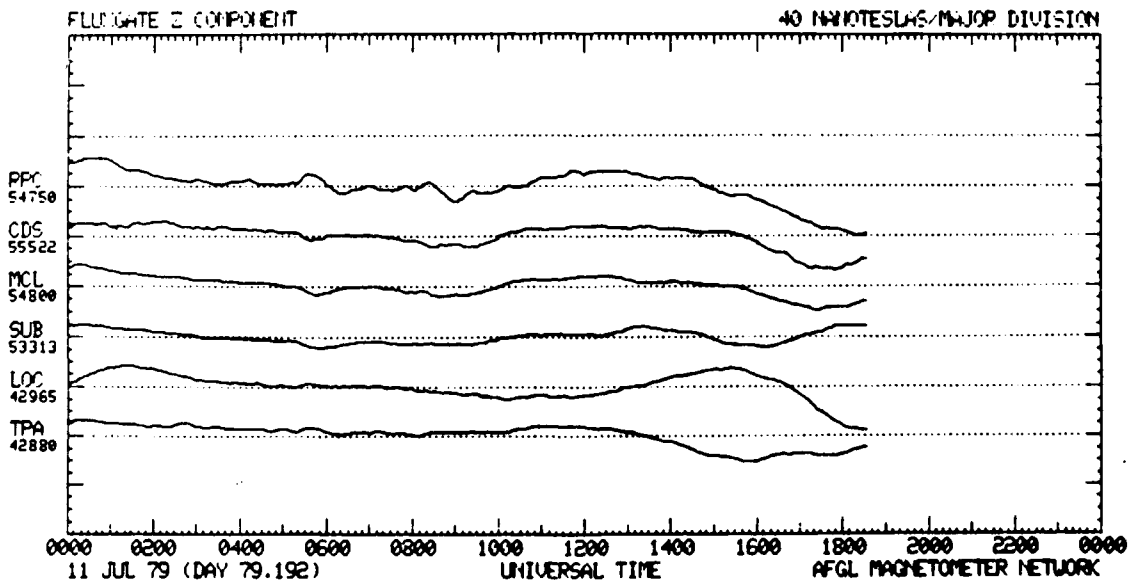
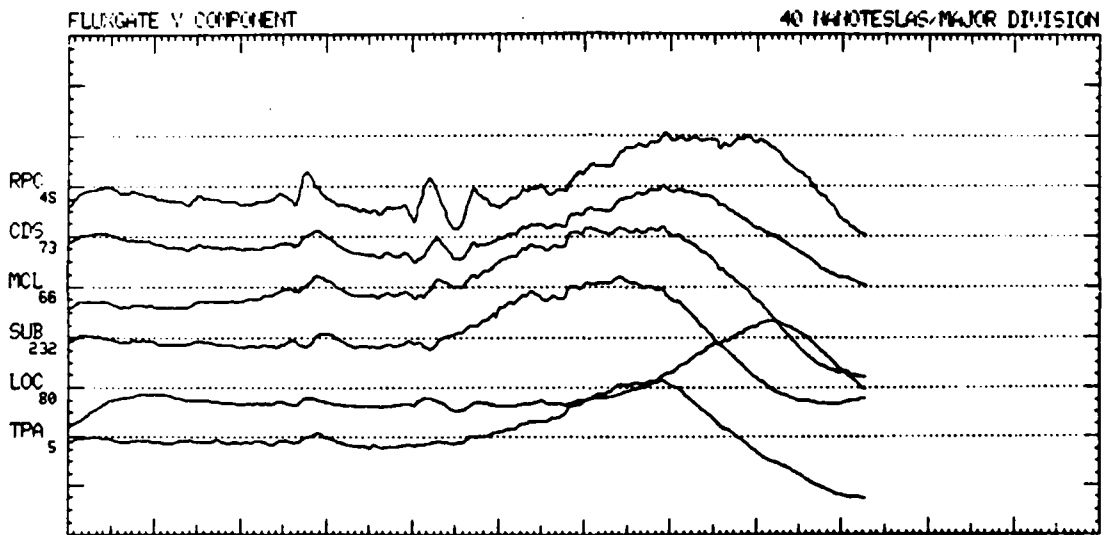
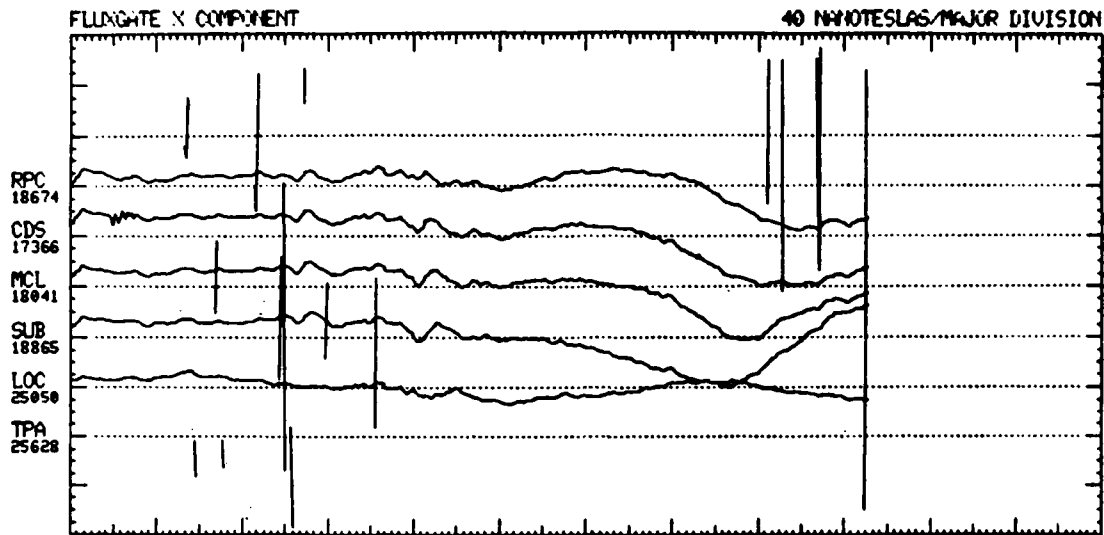
FLIGHTLINE Z COMPONENT

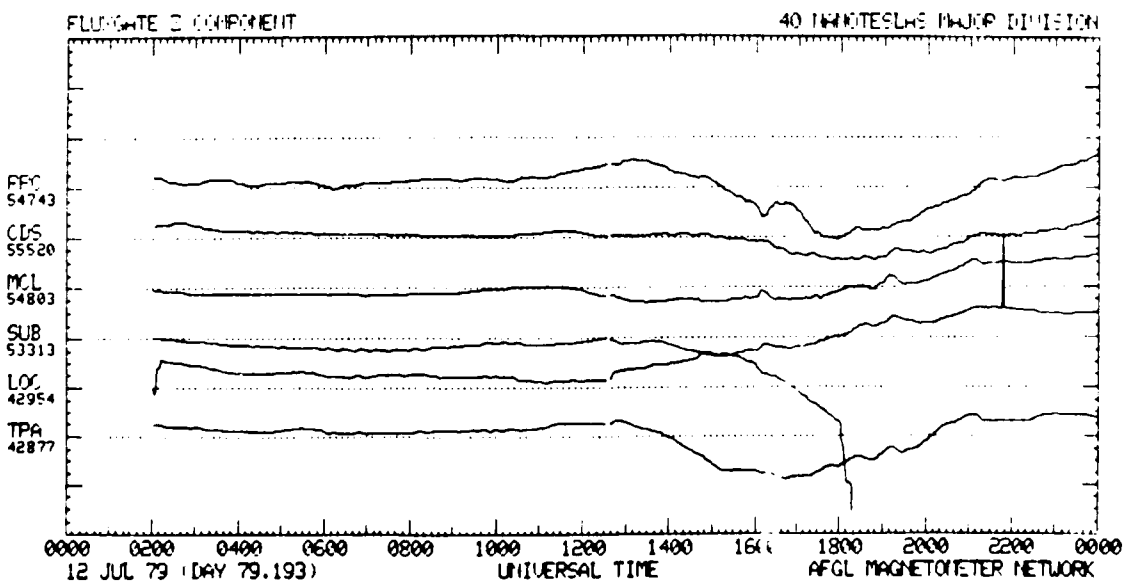
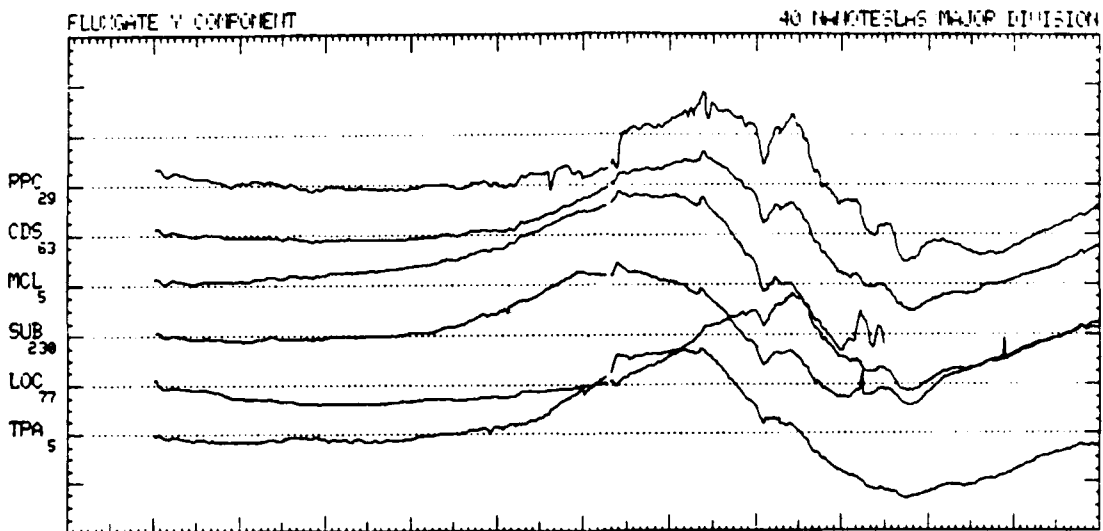
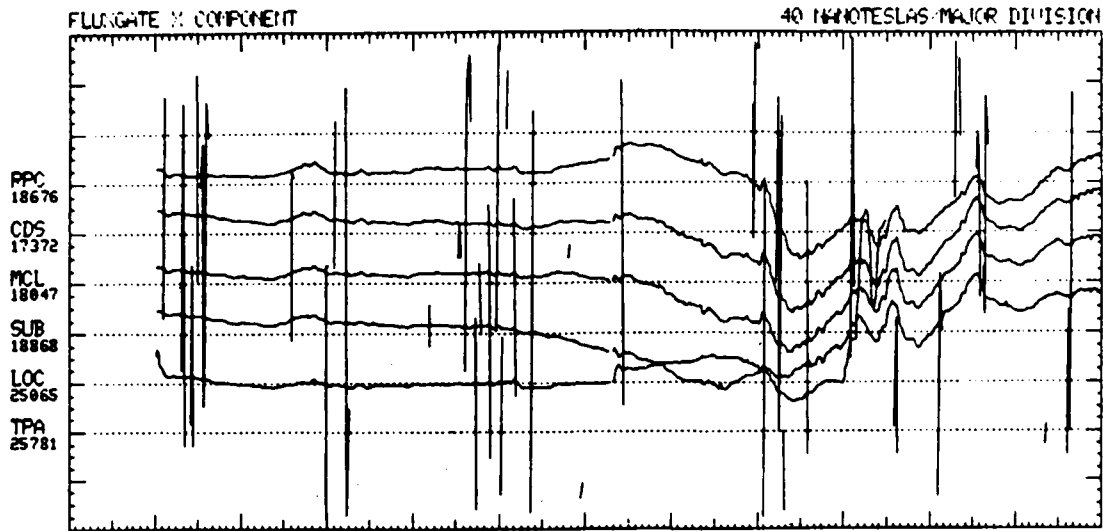
40 NANOTESLA MAJOR DIVISION

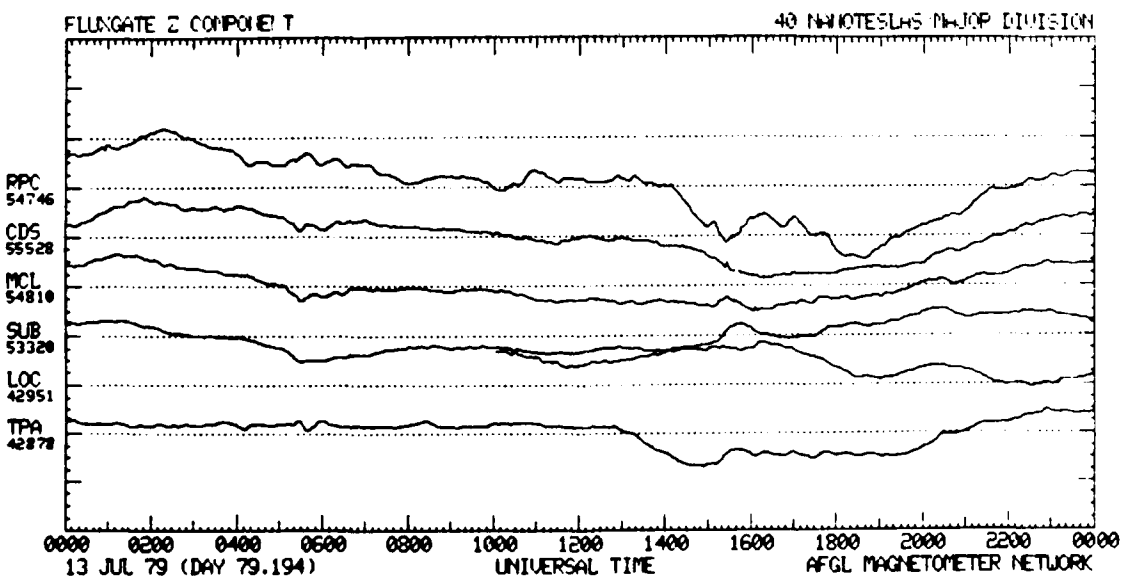
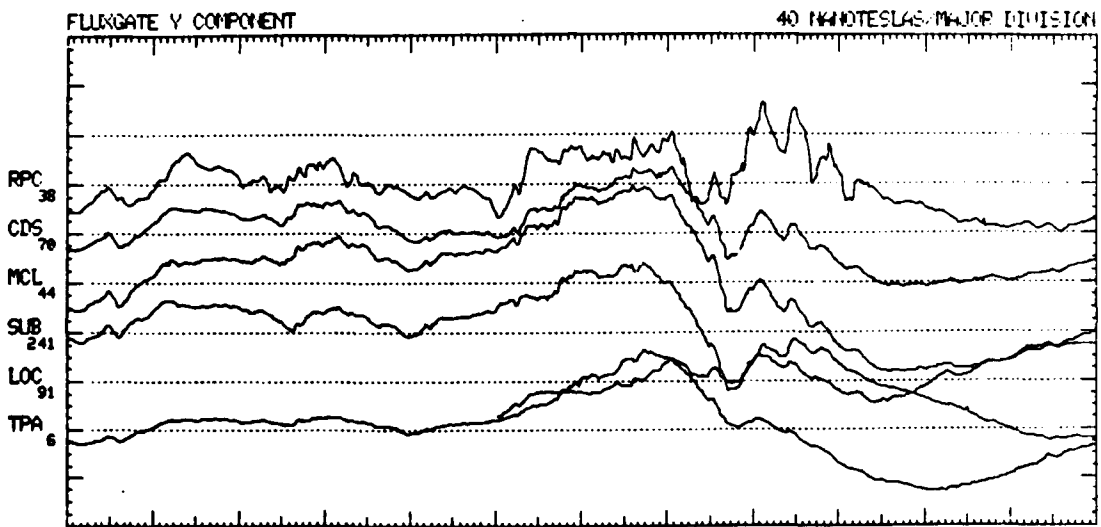
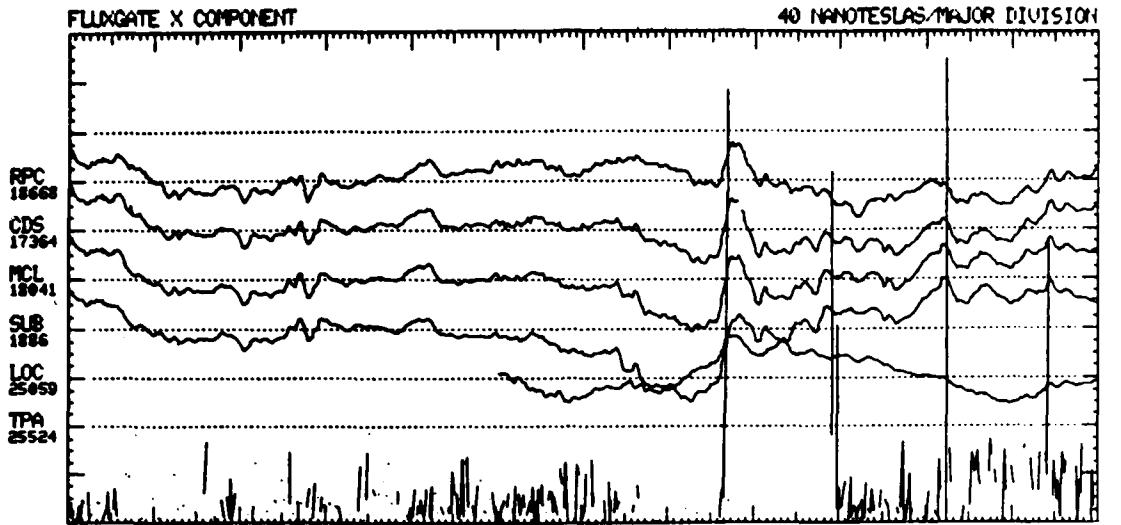


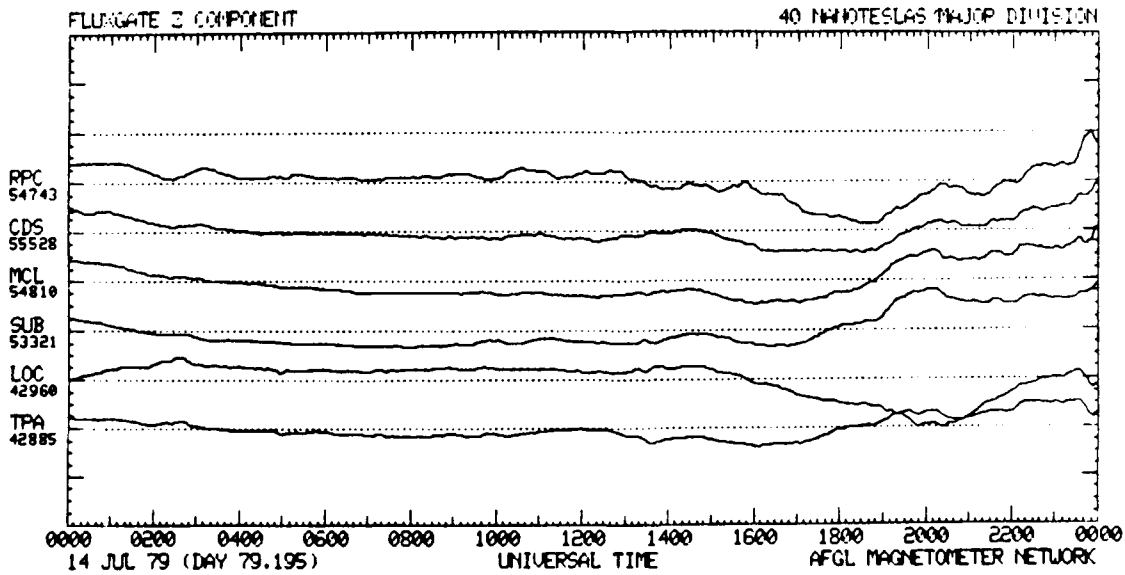
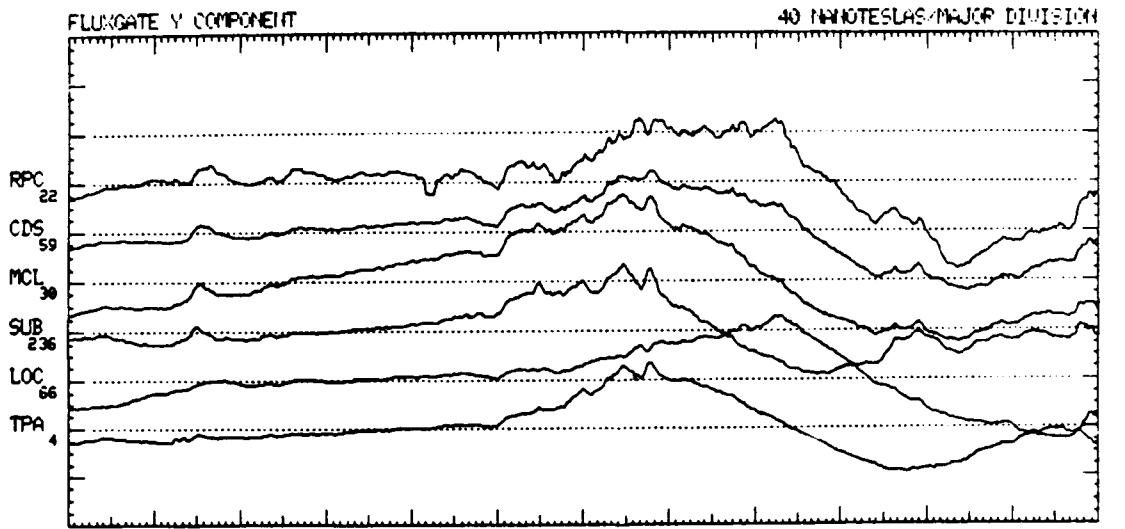
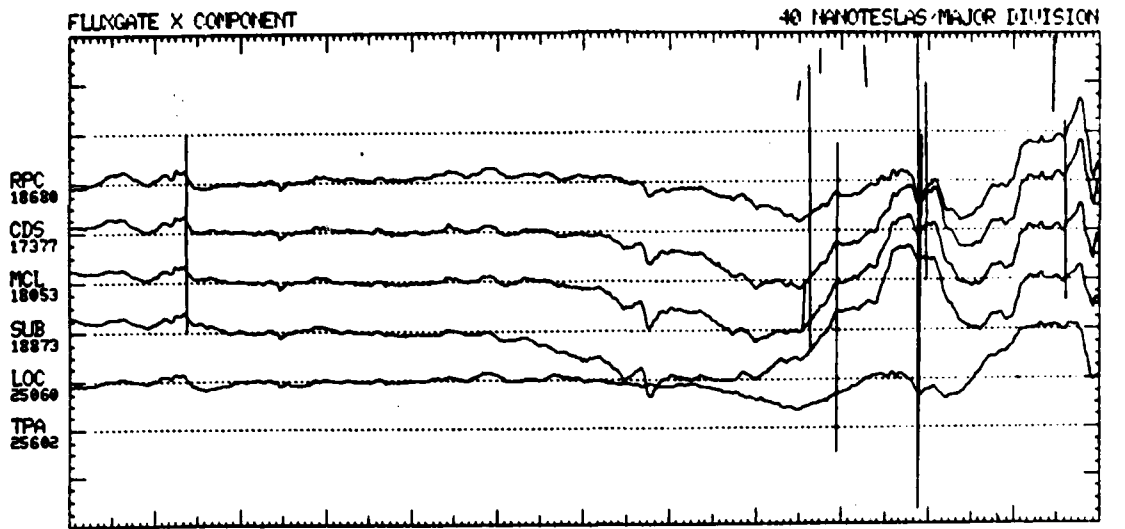
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 JUL 79 (DAY 79.190) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

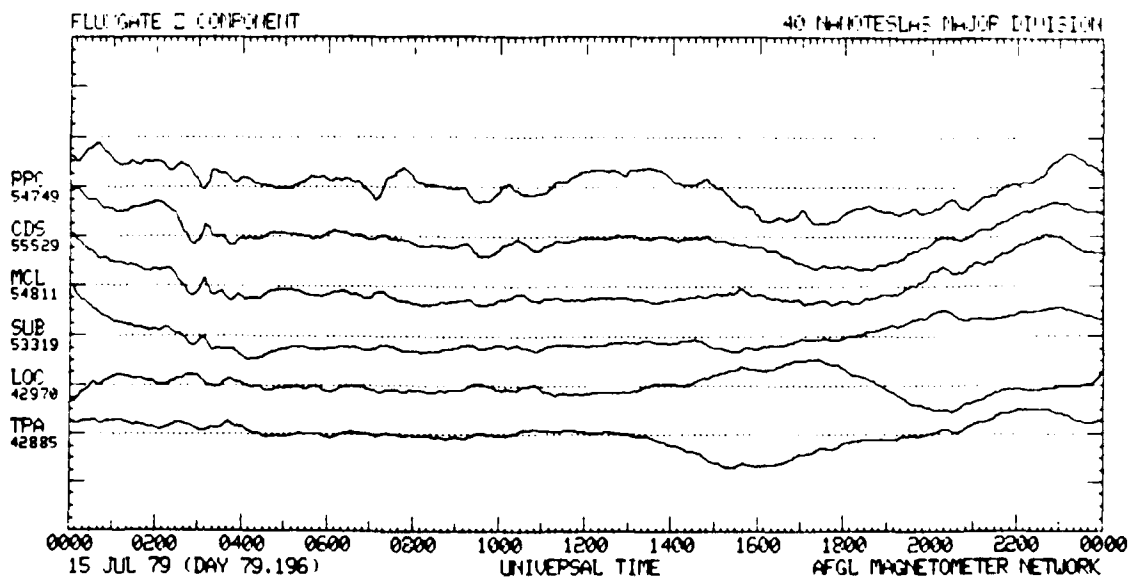
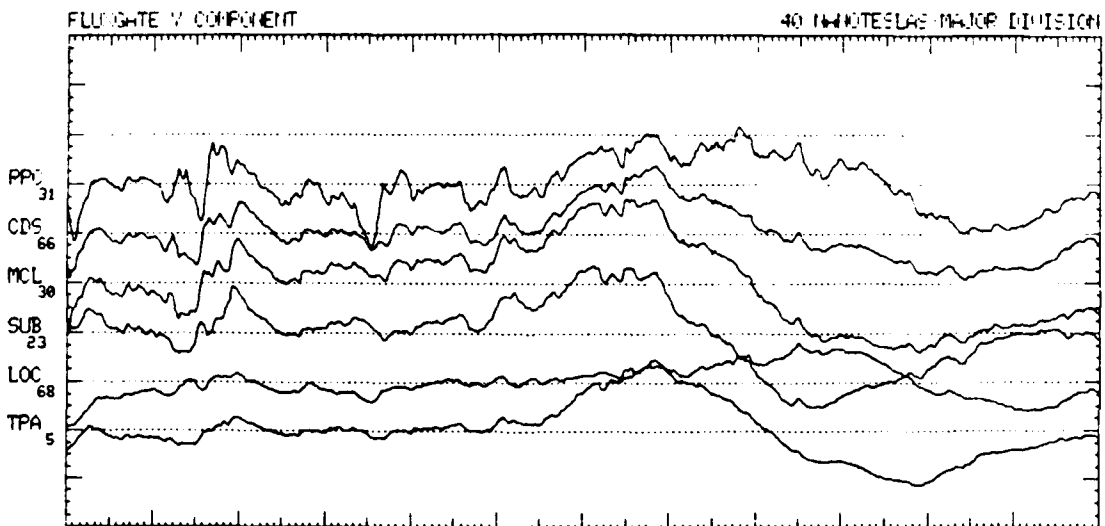
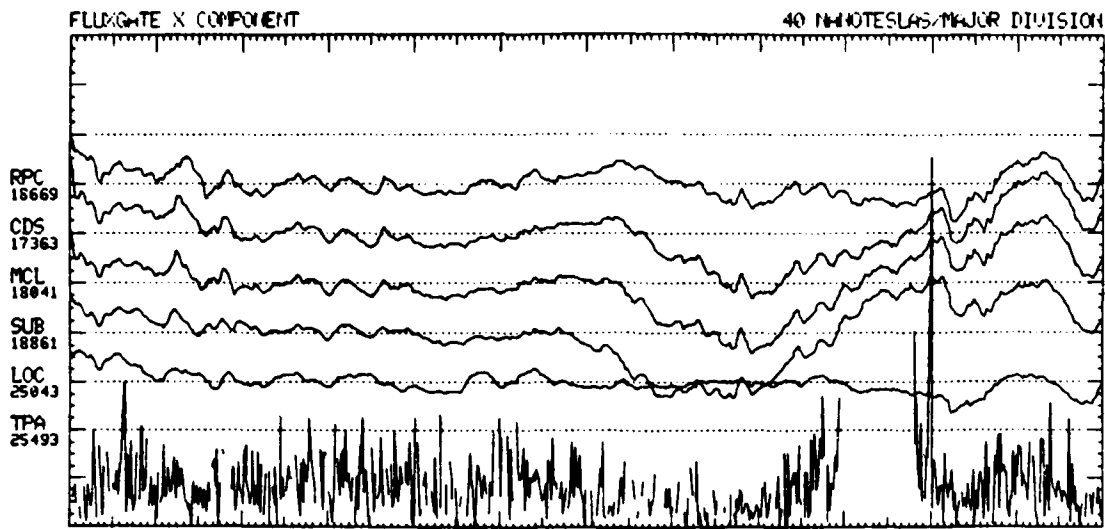






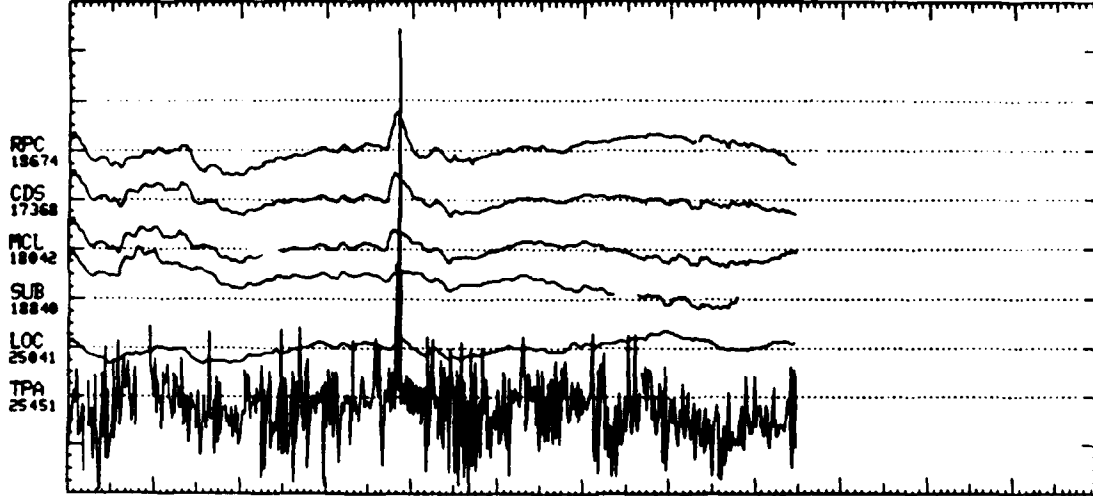






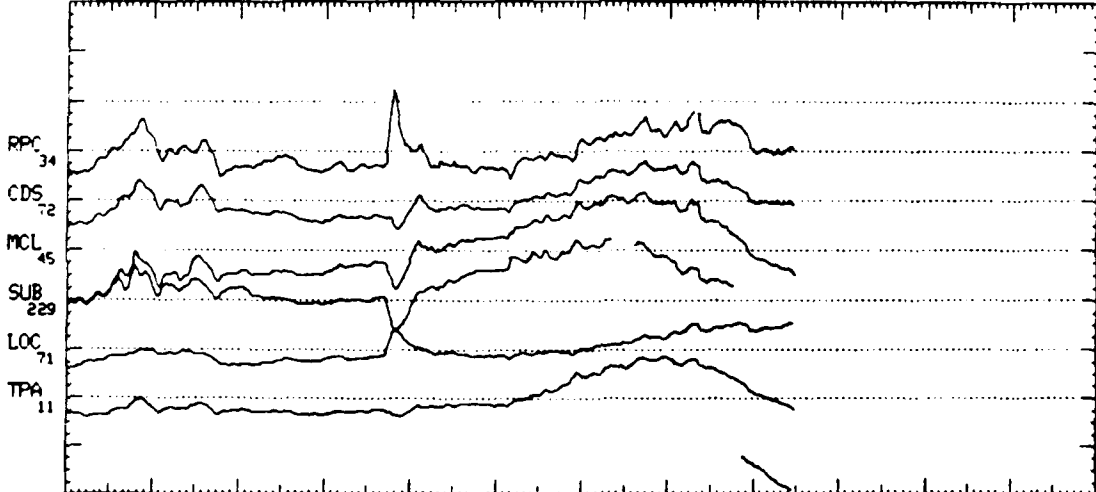
FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



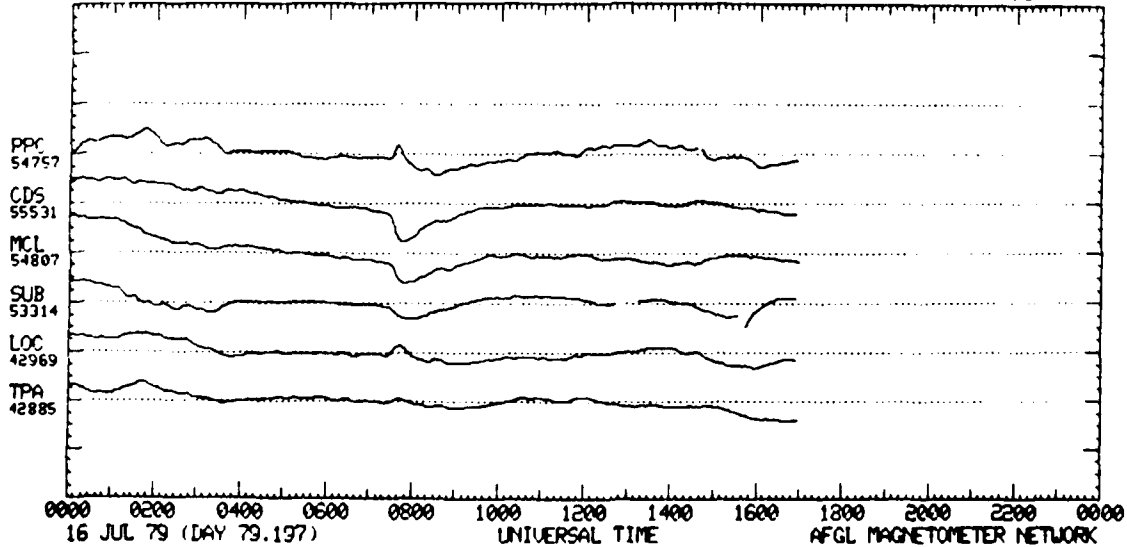
FLIGHTGATE Y COMPONENT

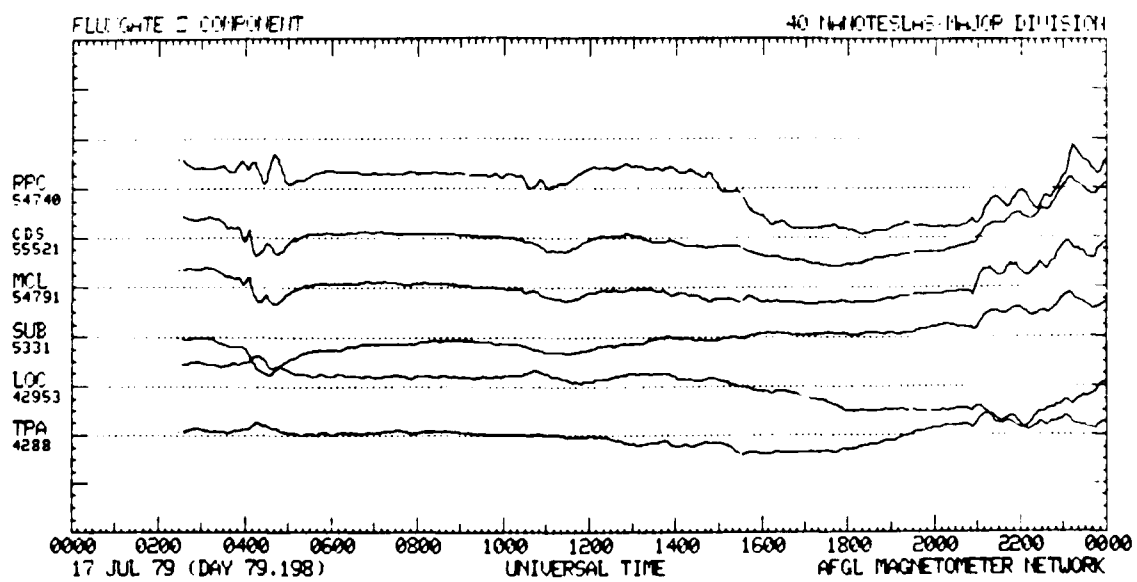
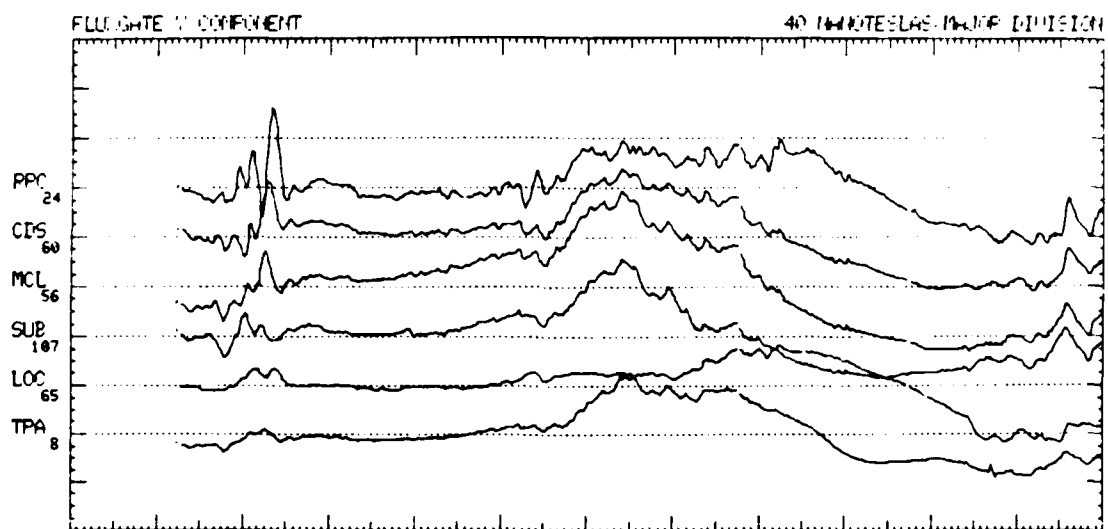
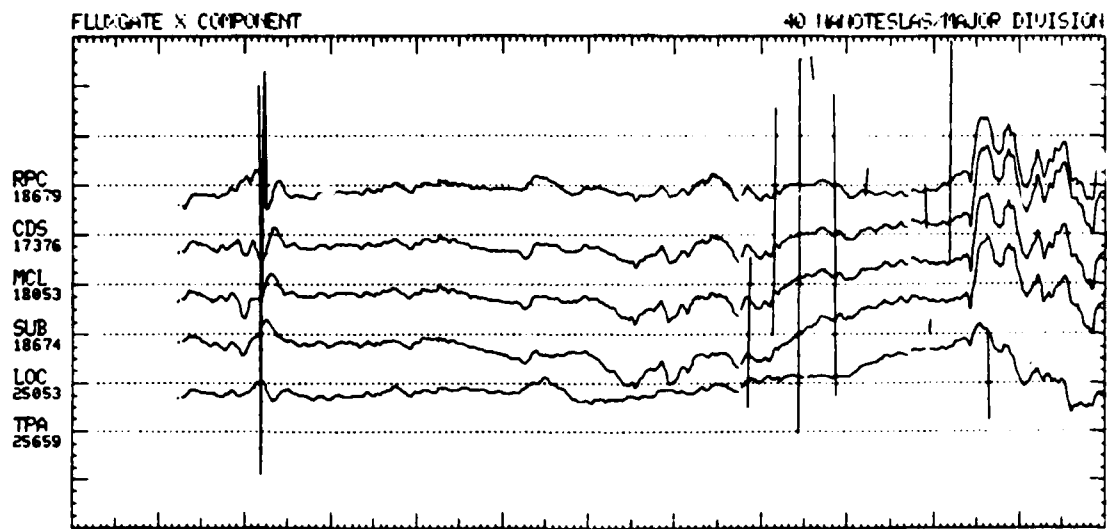
40 NANOTESLAS MAJOR DIVISION

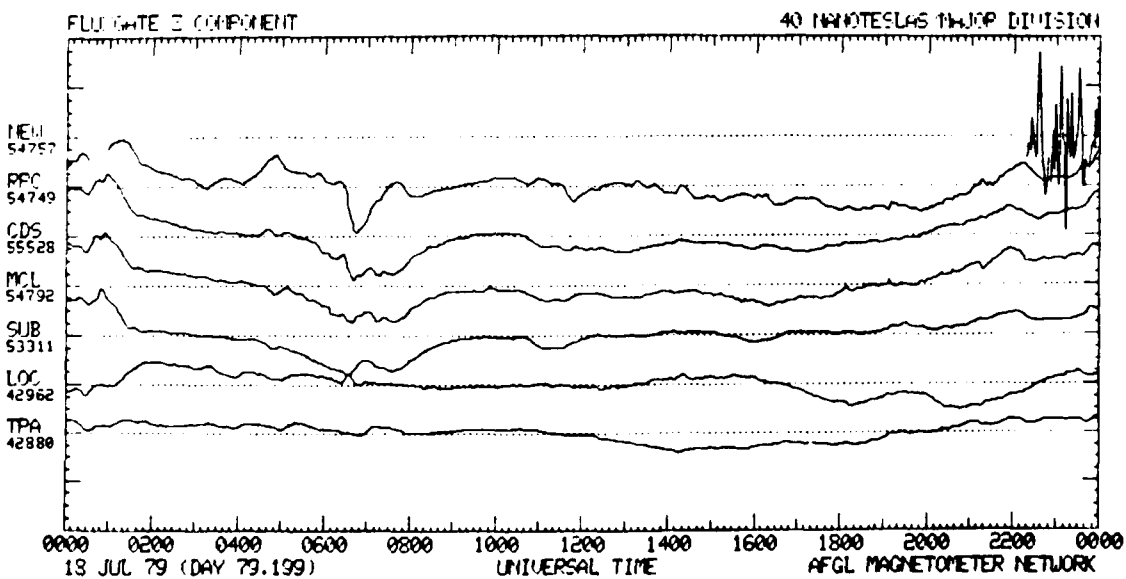
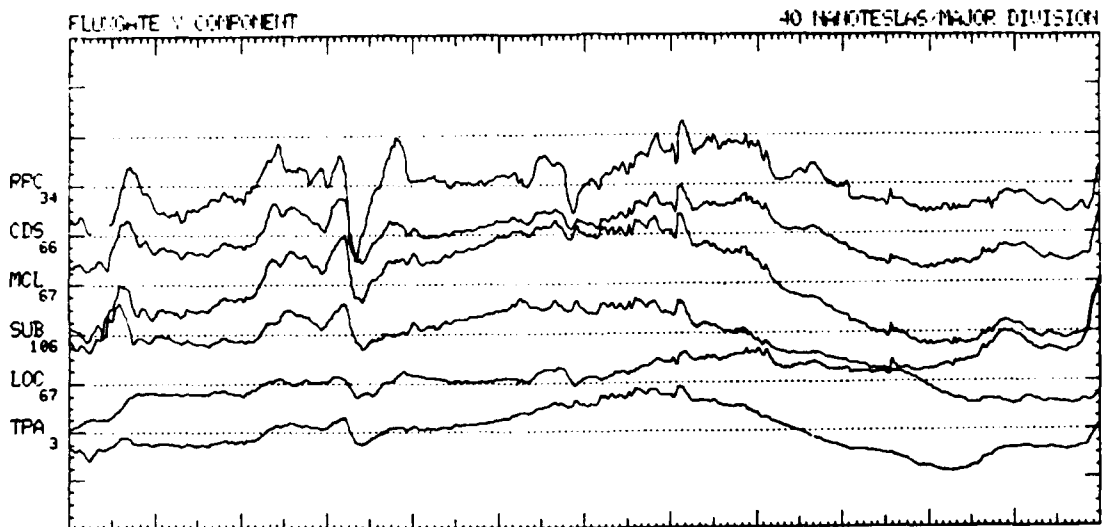
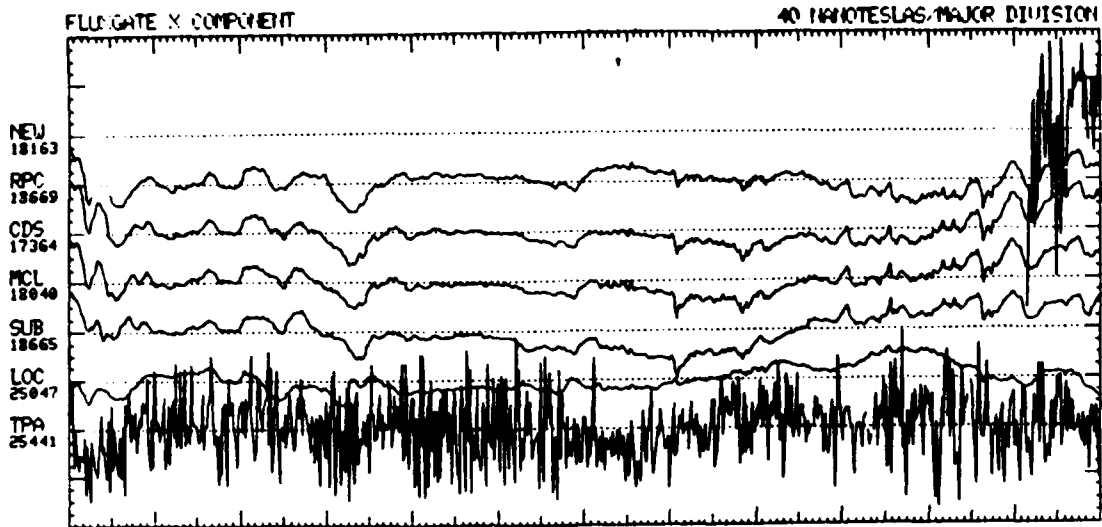


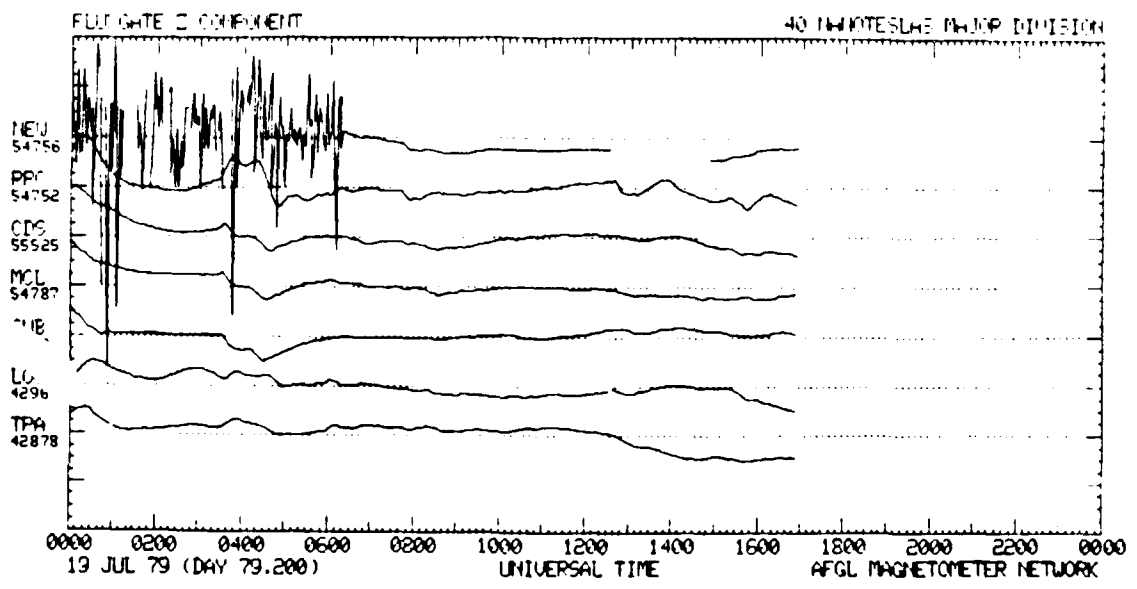
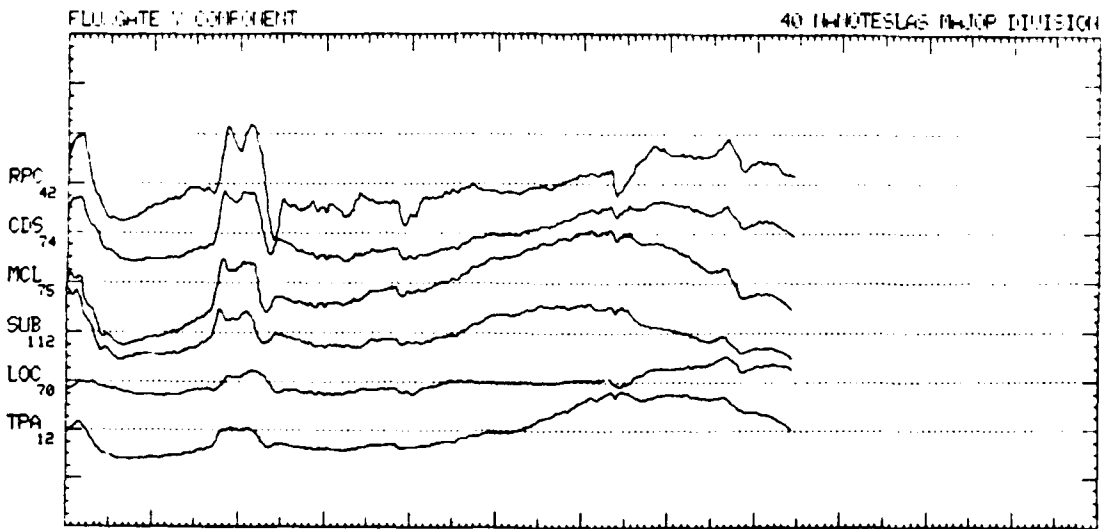
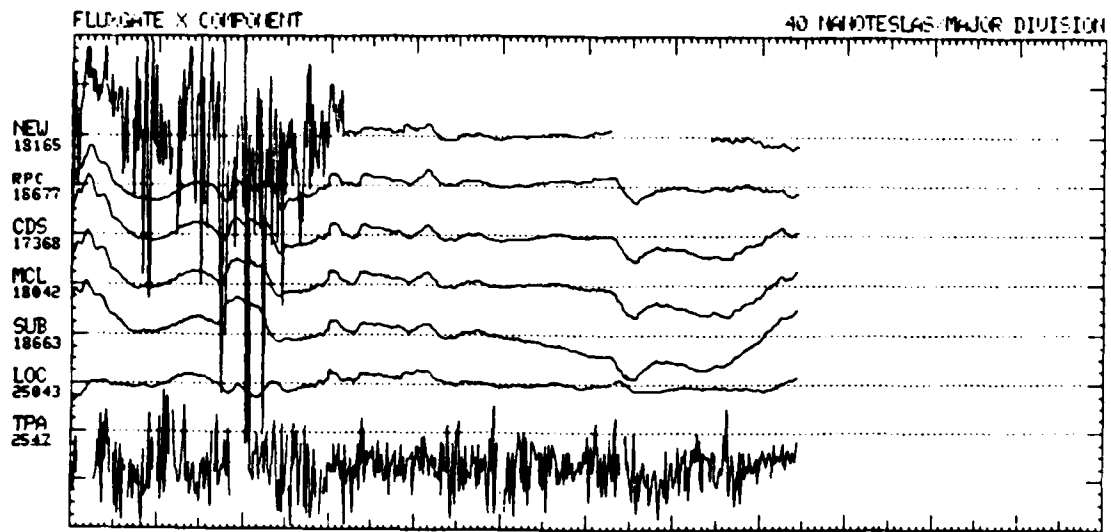
FLIGHTGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

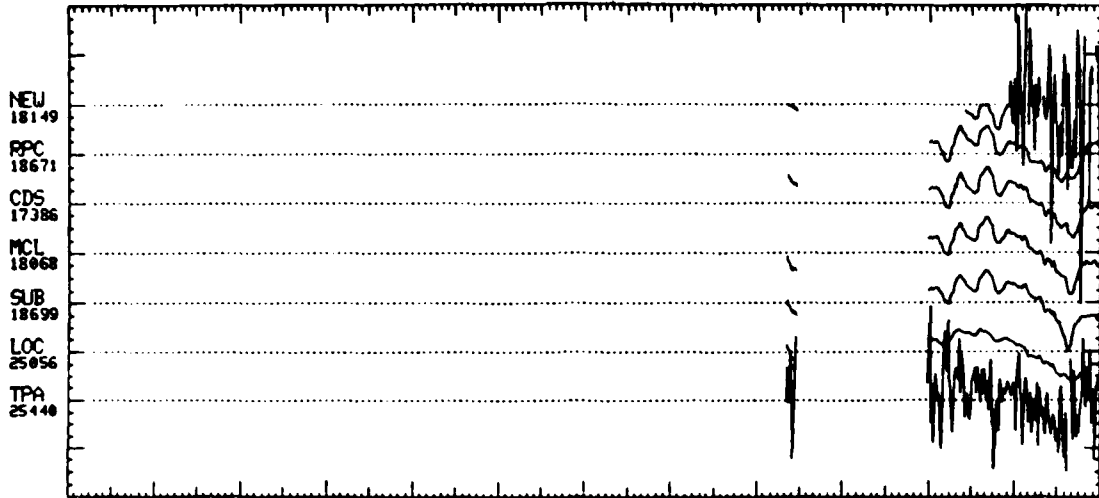




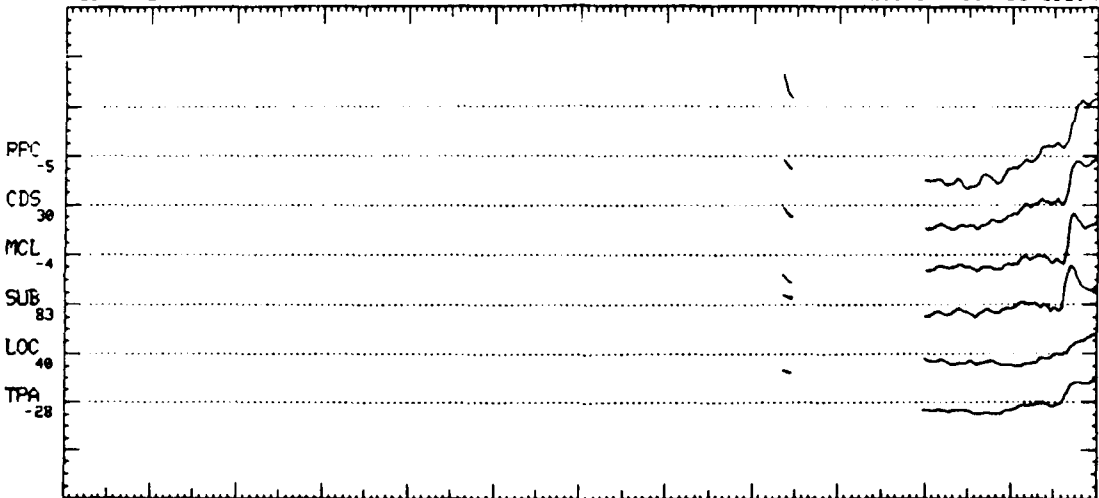




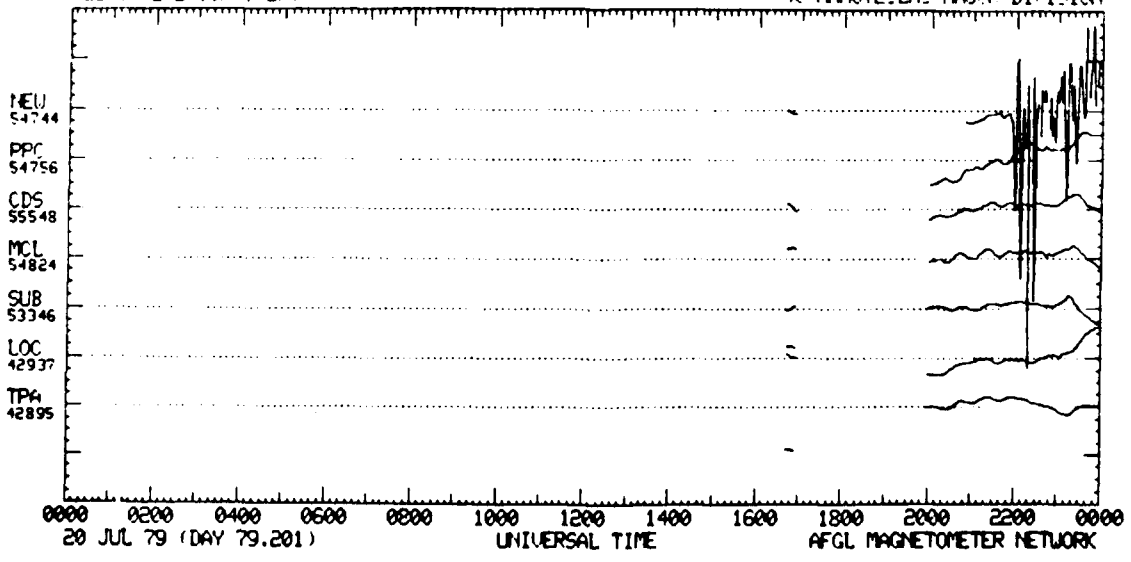
FLIGHTLINE X COMPONENT 40 NANOTESLAS MAJOR DIVISION



FLIGHTLINE Y COMPONENT 40 NANOTESLAS MAJOR DIVISION

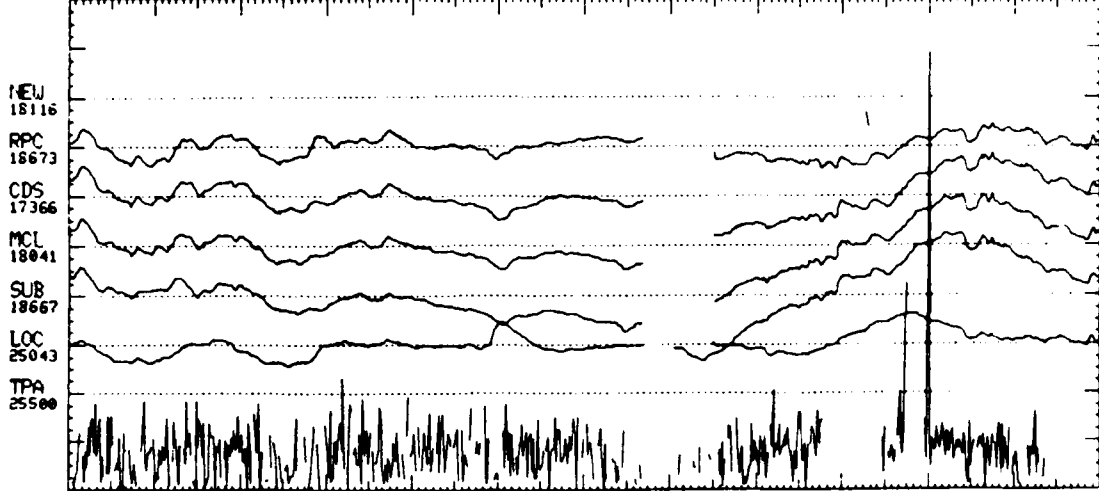


FLIGHTLINE Z COMPONENT 40 NANOTESLAS MAJOR DIVISION



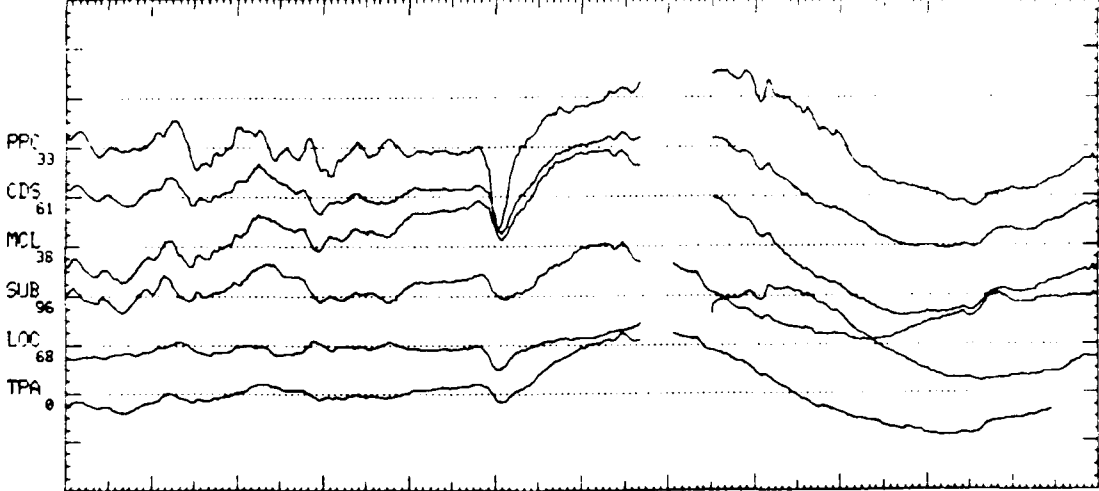
FLIGHTLINE 1 COMPONENT

40 NANOTESLA-TWINE DIVISION



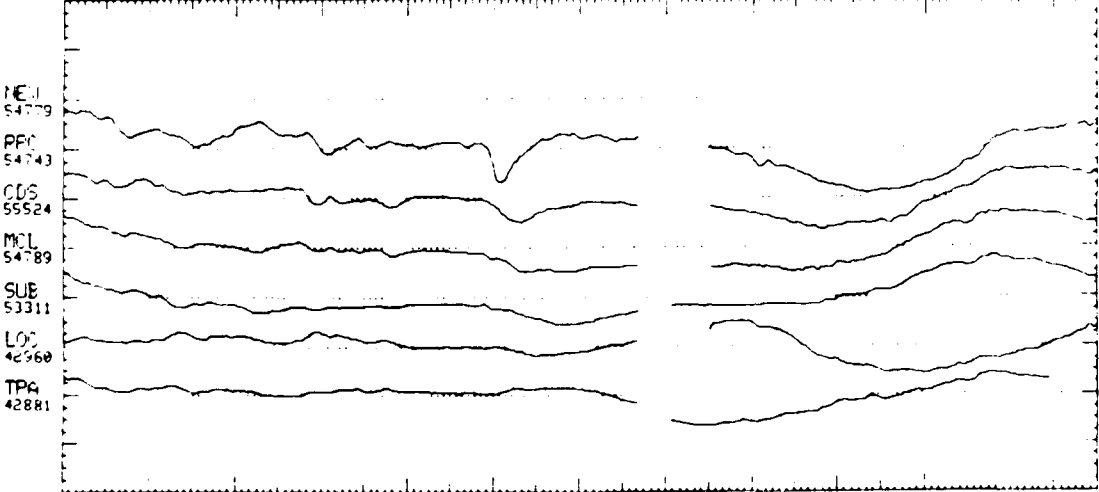
FLIGHTLINE 2 COMPONENT

40 NANOTESLA-TWINE DIVISION



FLIGHTLINE 3 COMPONENT

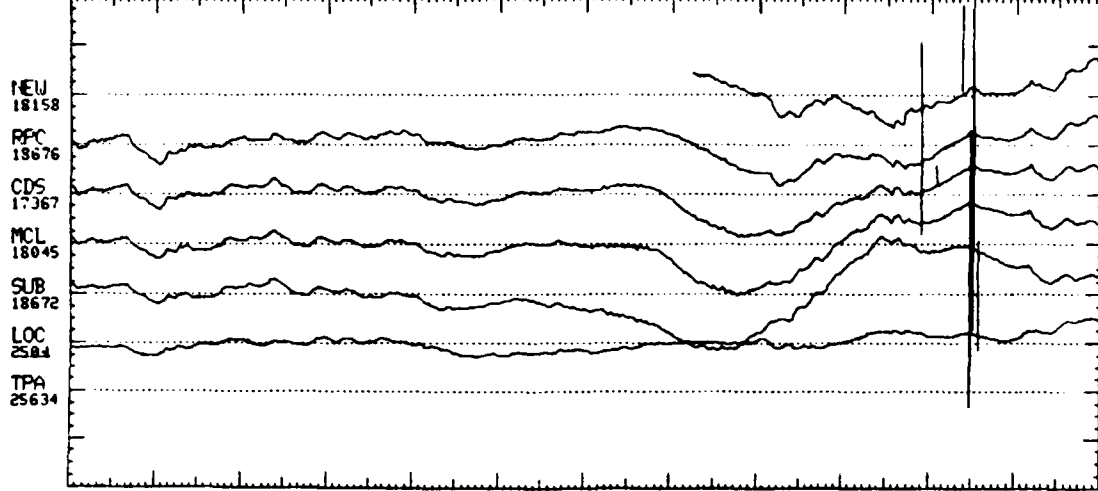
40 NANOTESLA-TWINE DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 JUL 79 (DAY 79.202) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

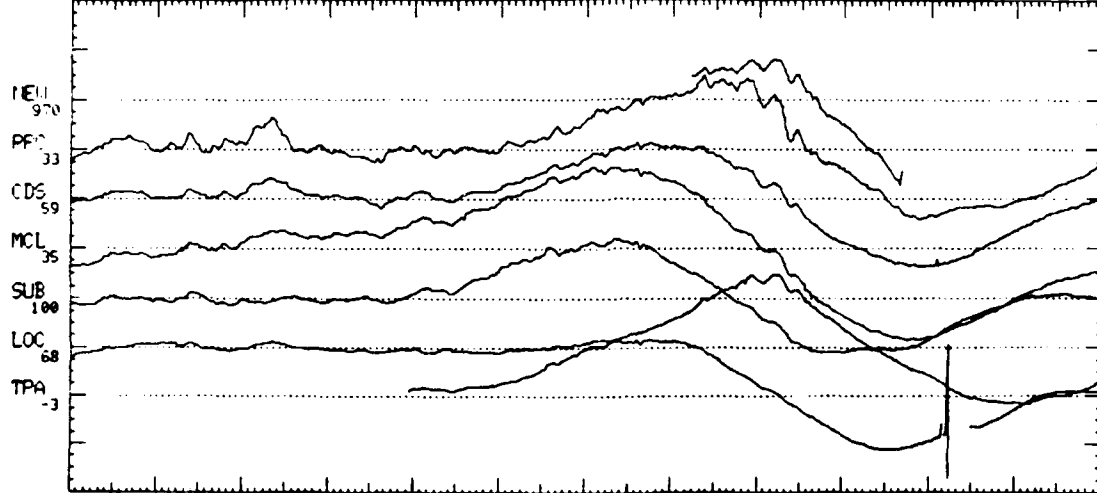
FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



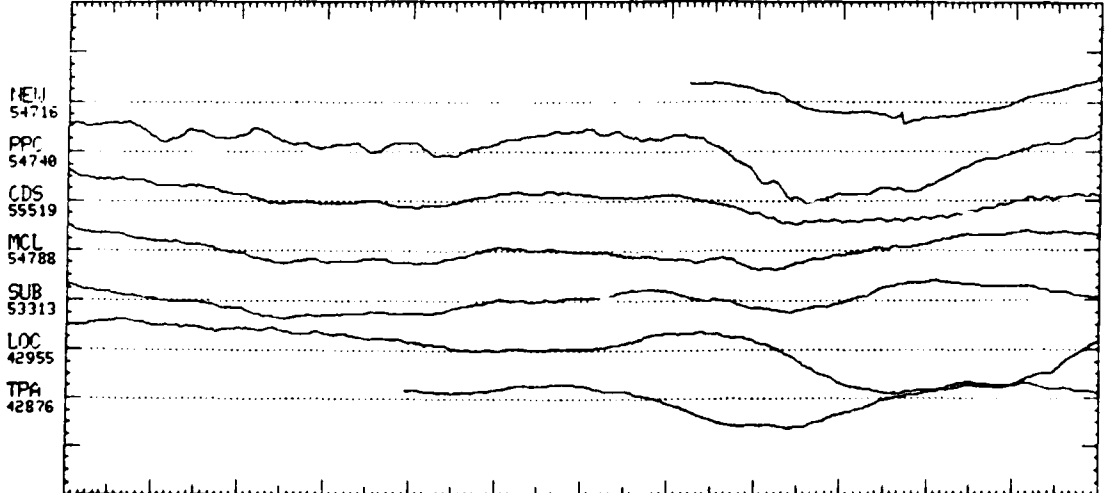
FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION



FLIGHTGATE Z COMPONENT

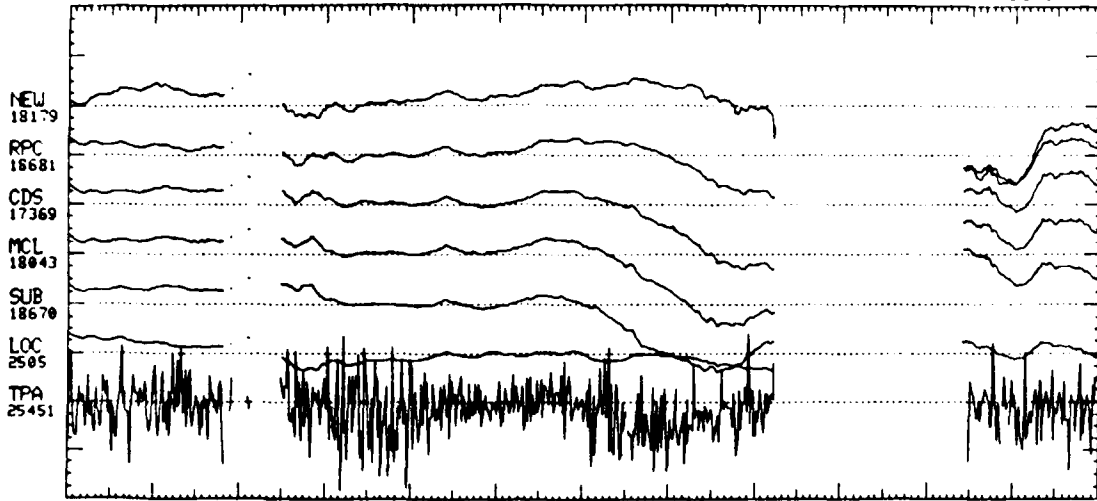
40 NANOTESLAS MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 JUL 79 (DAY 79.203) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

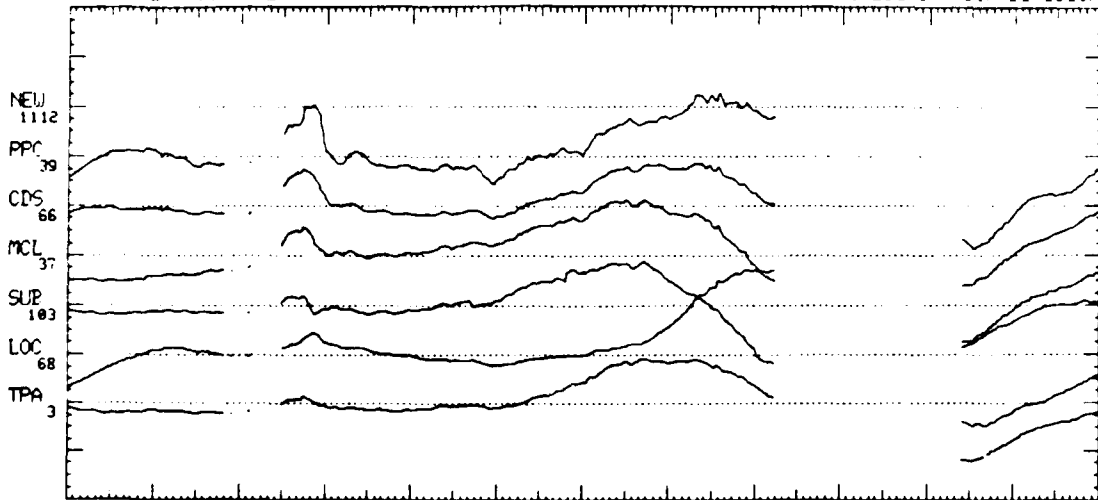
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



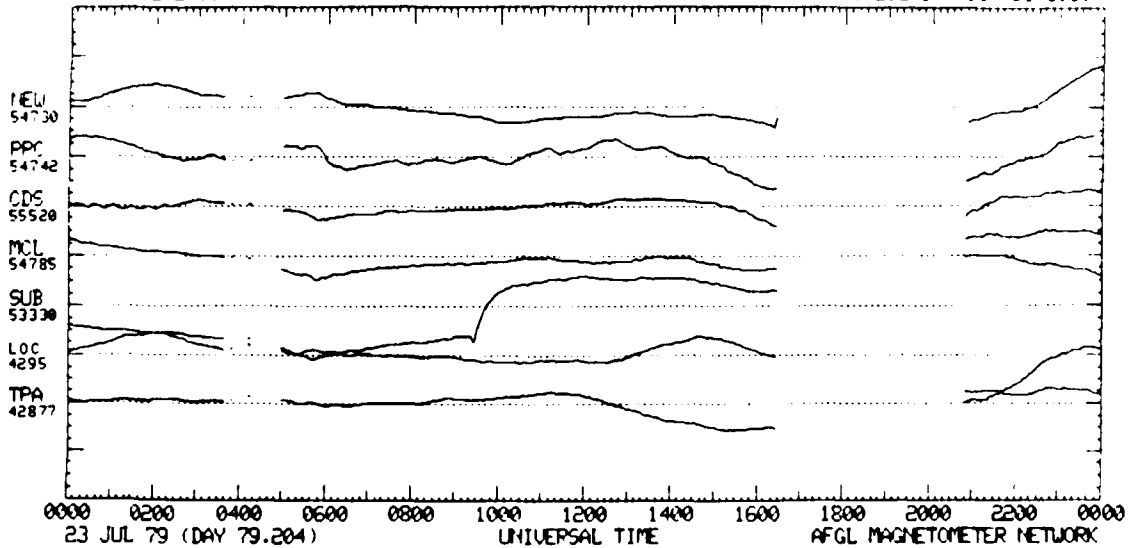
FLIGHTLINE Y COMPONENT

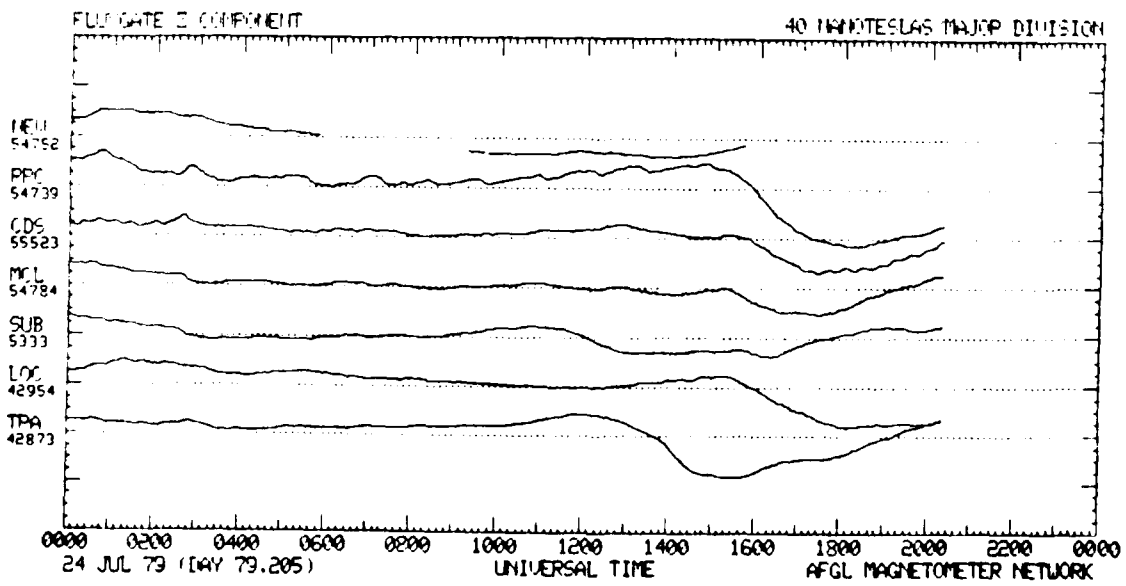
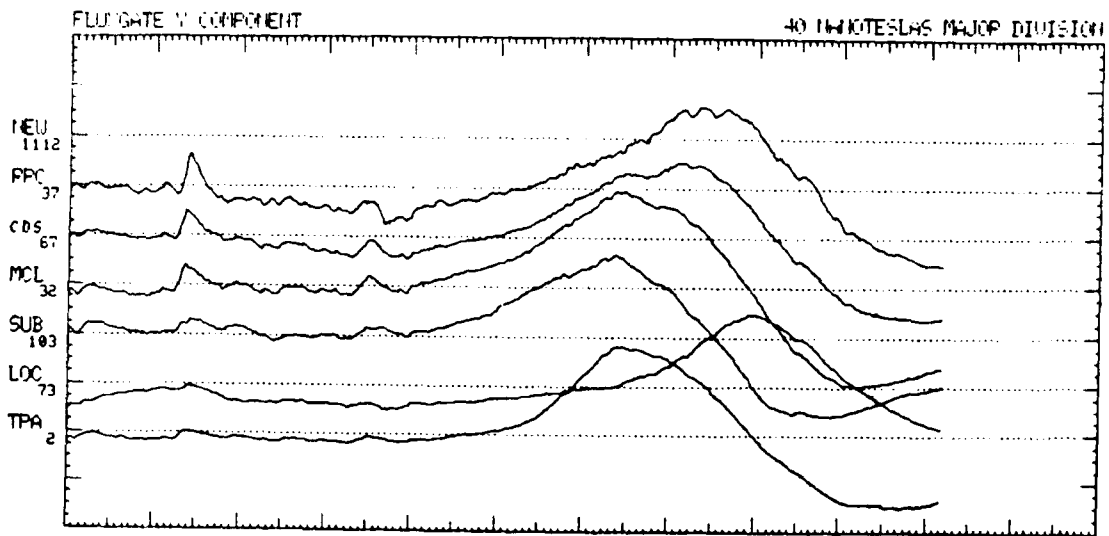
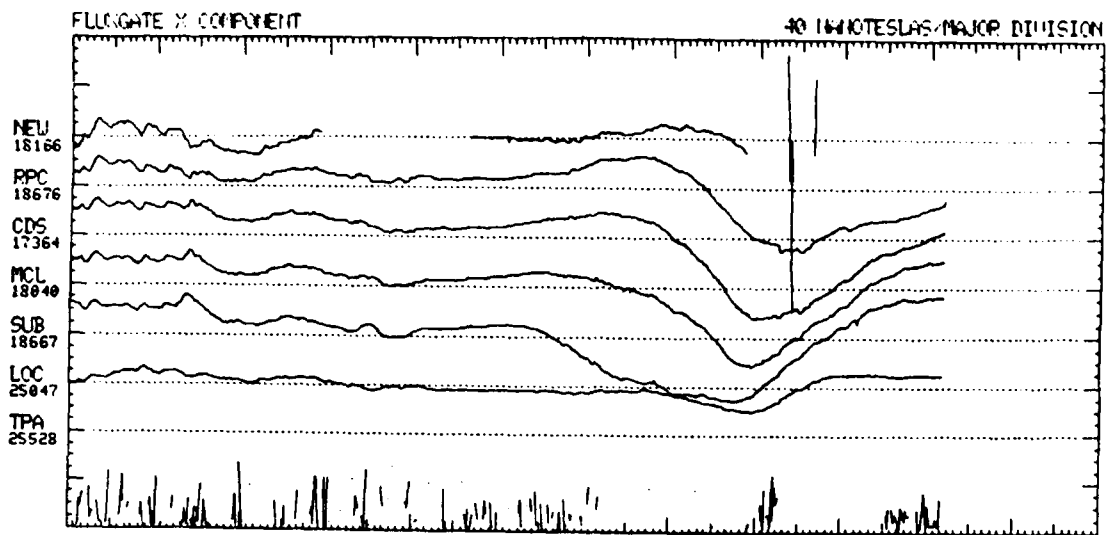
40 NANOTESLAS MAJOR DIVISION

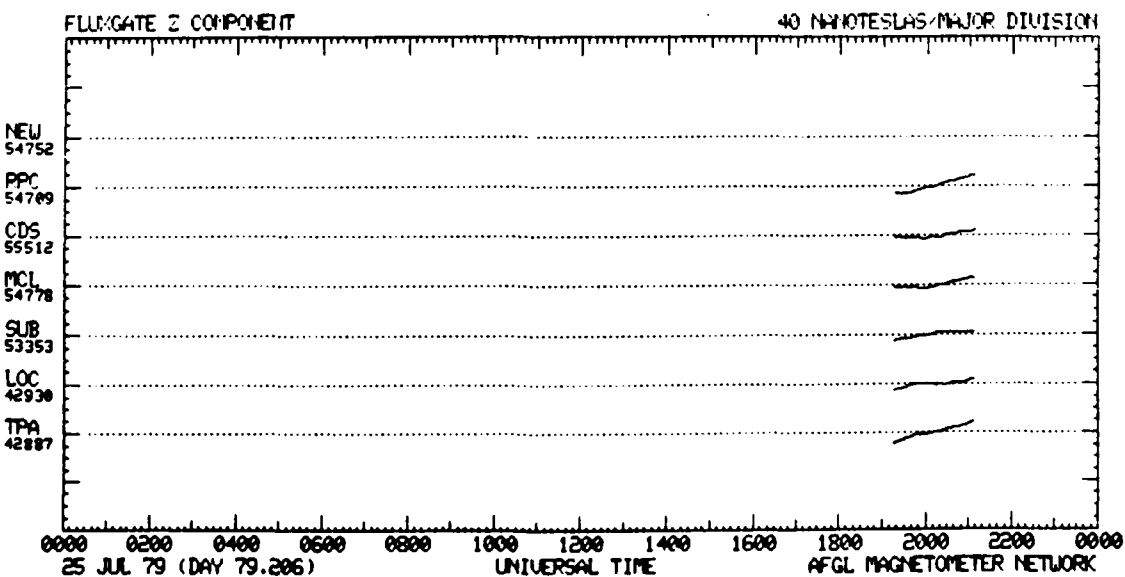
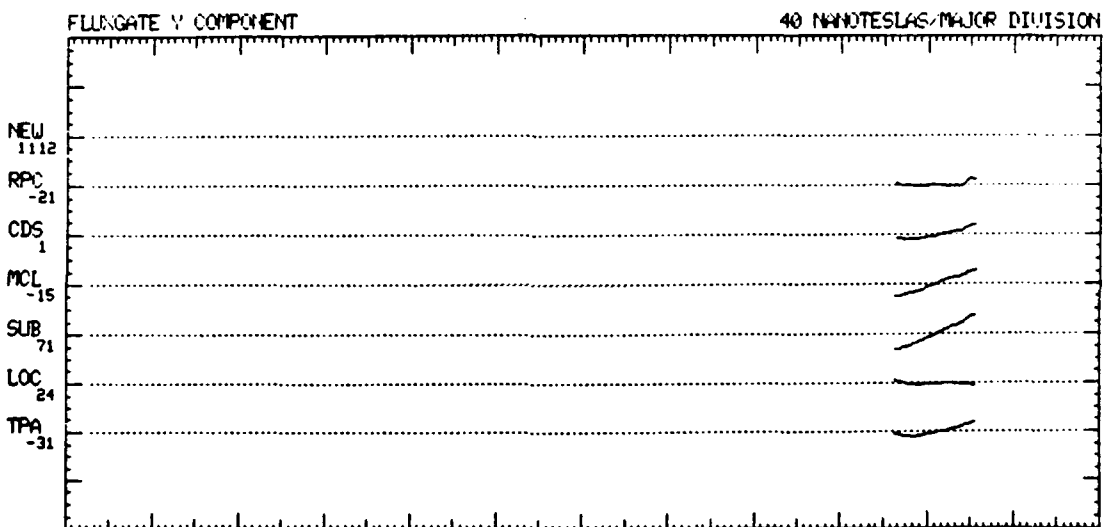
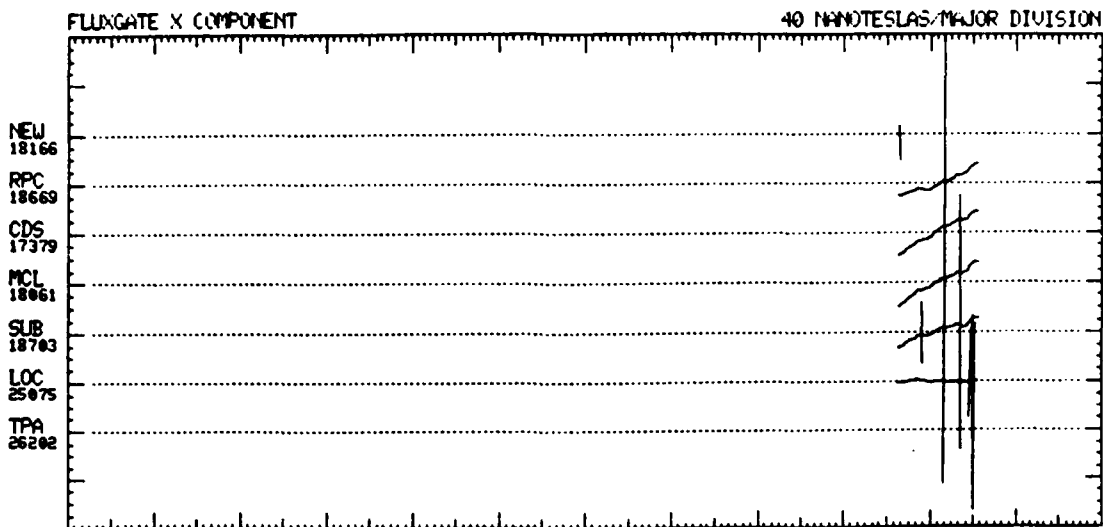


FLIGHTLINE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

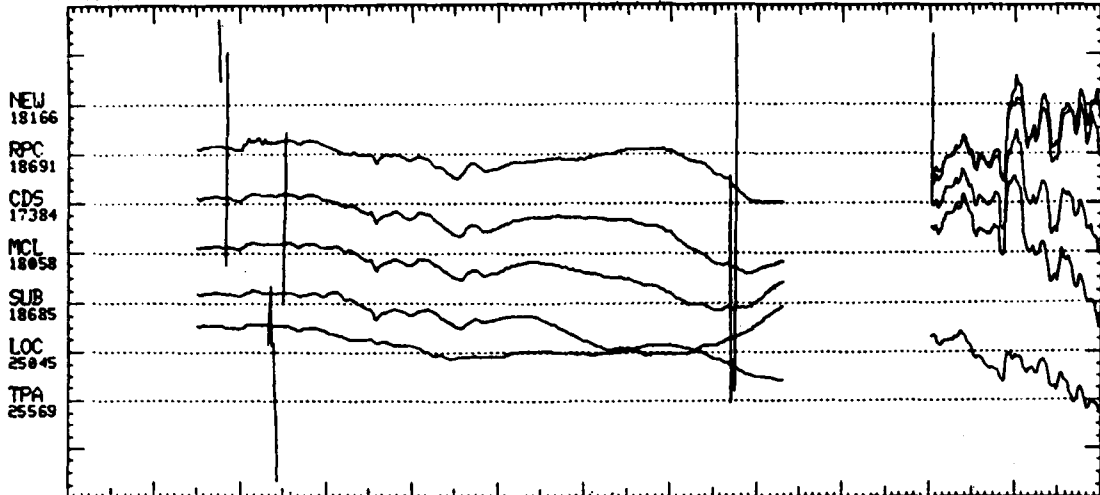






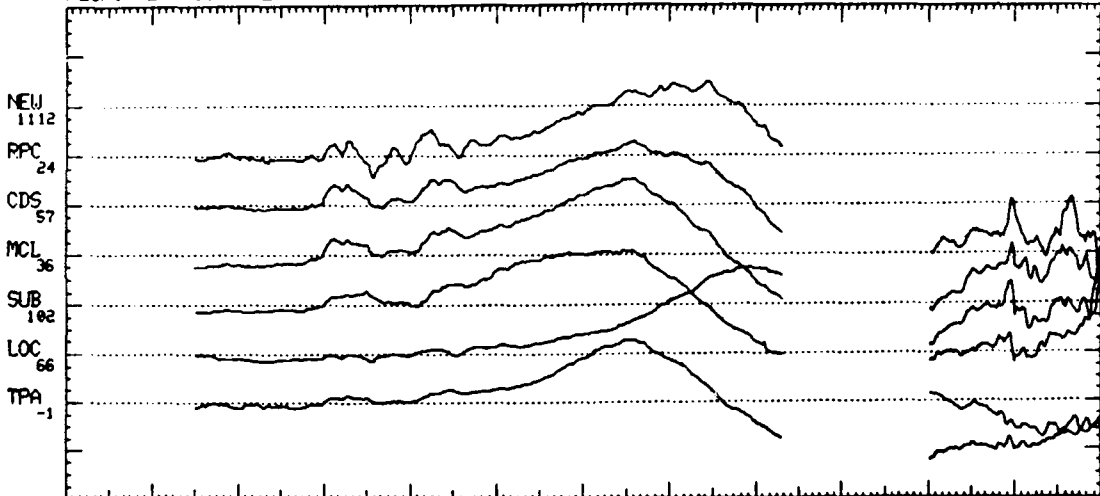
FLIGHTGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



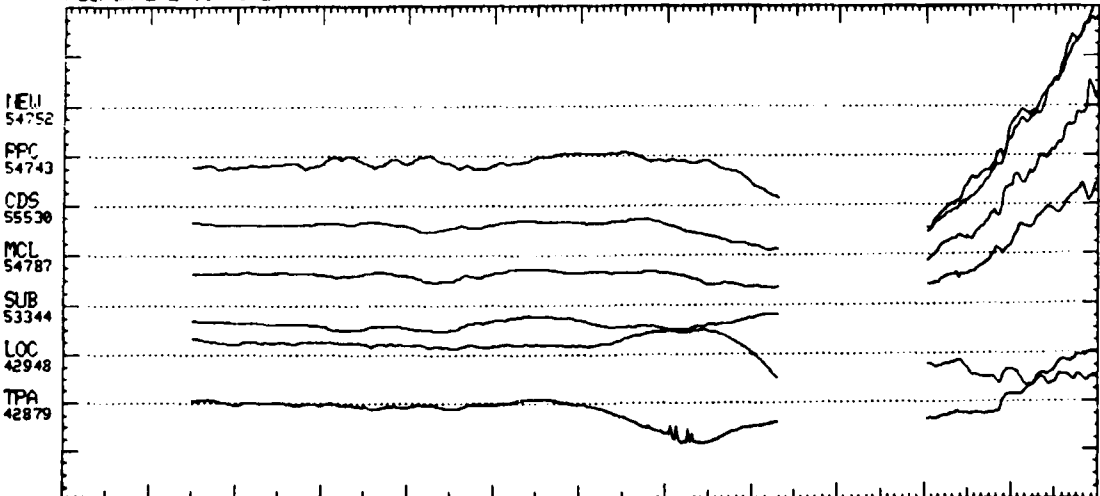
FLIGHTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

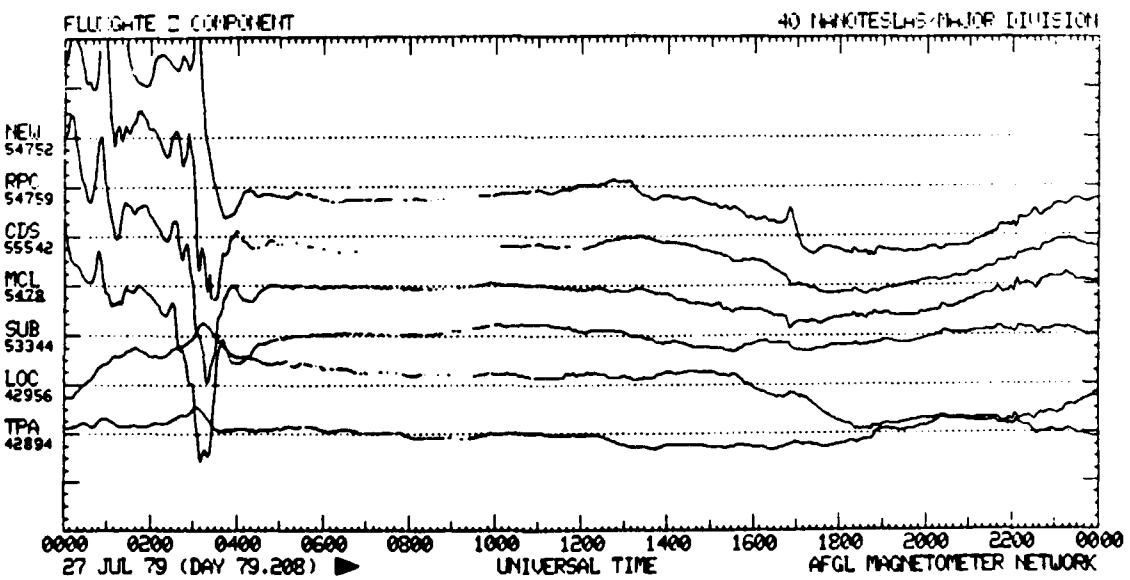
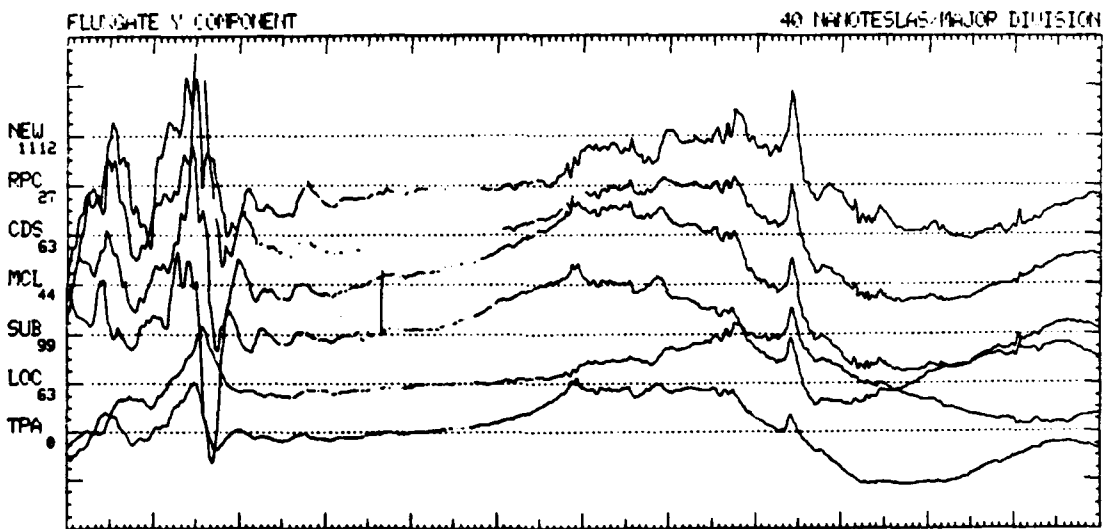
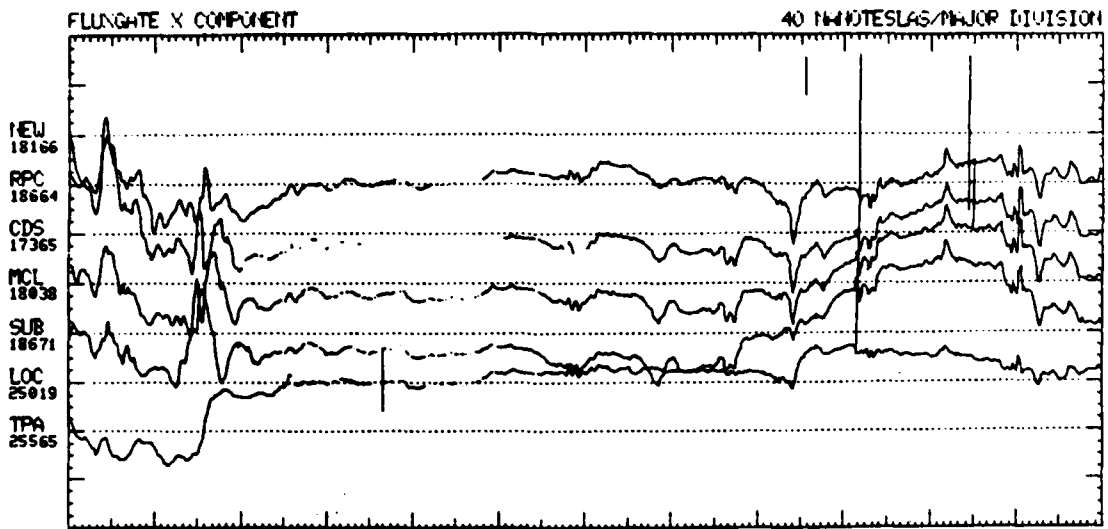


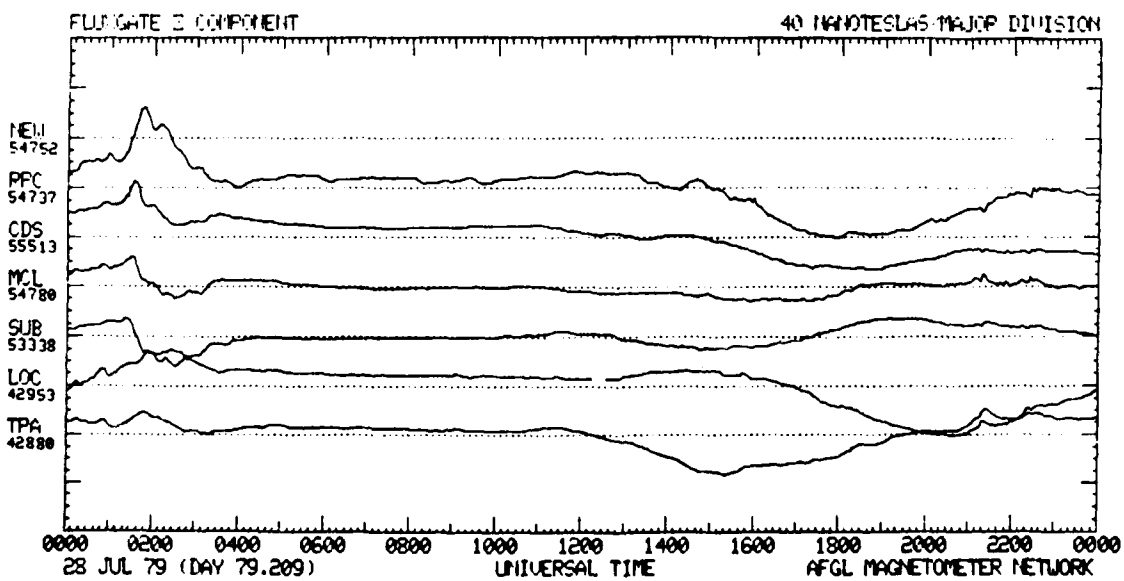
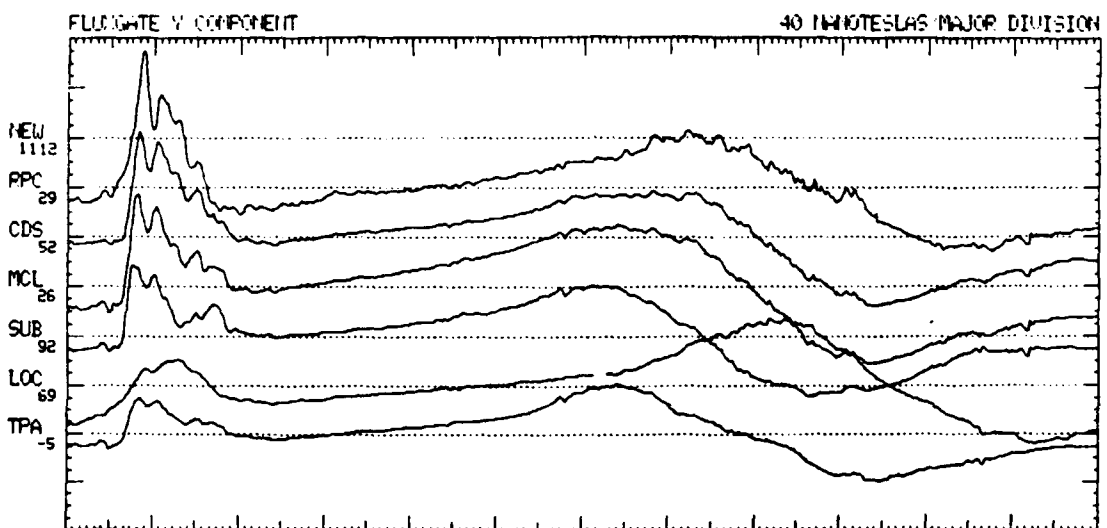
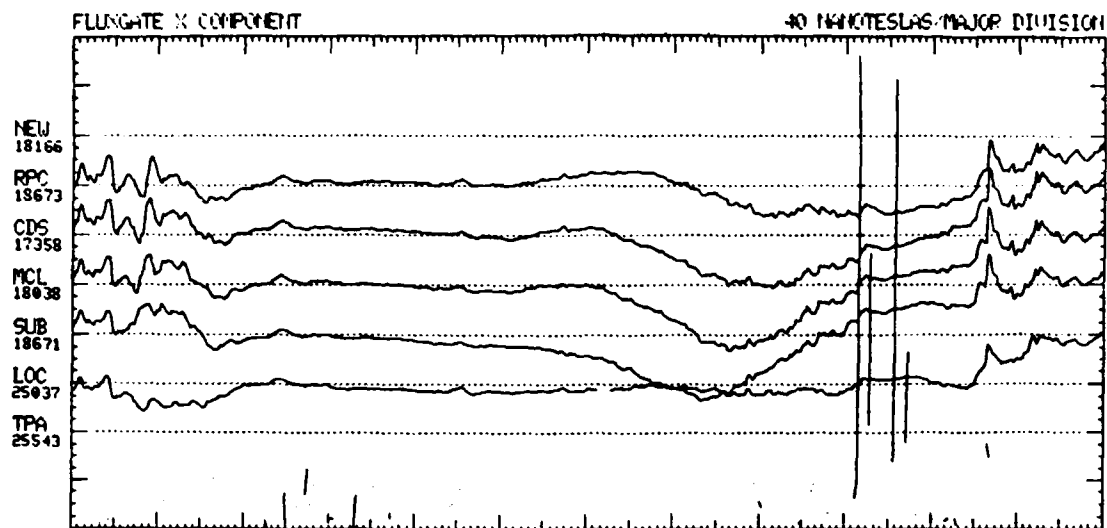
FLIGHTGATE Z COMPONENT

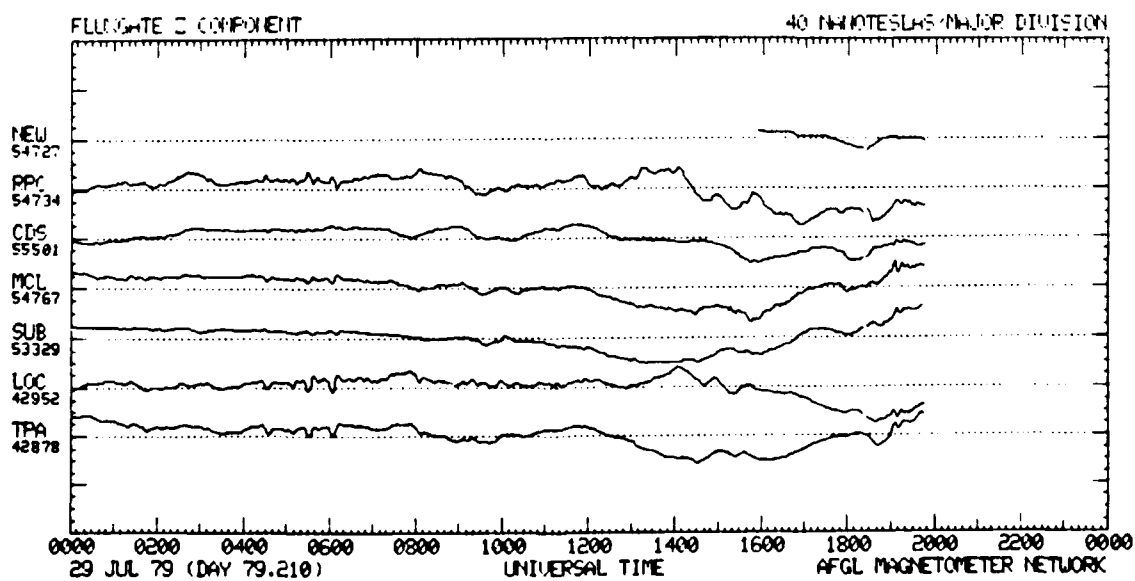
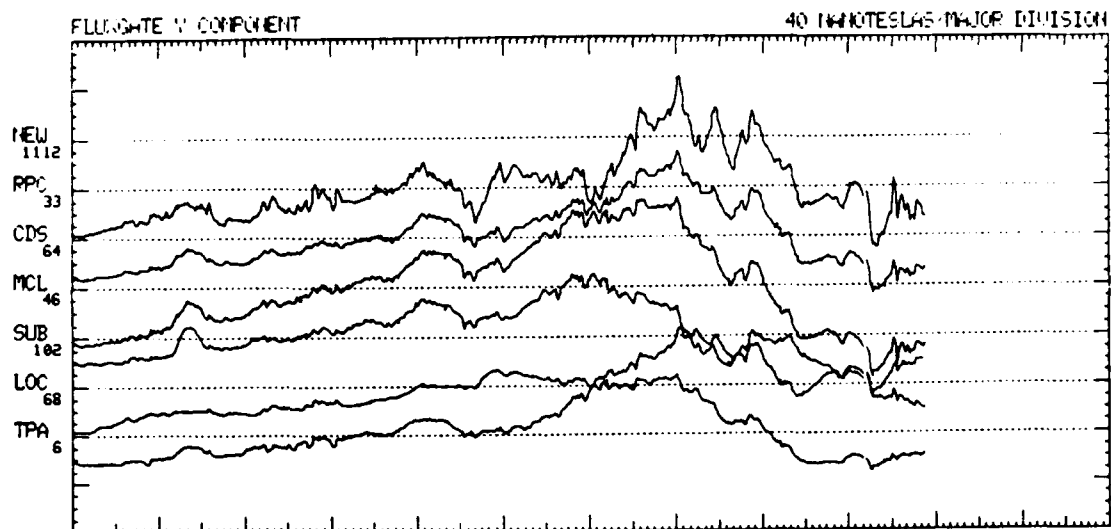
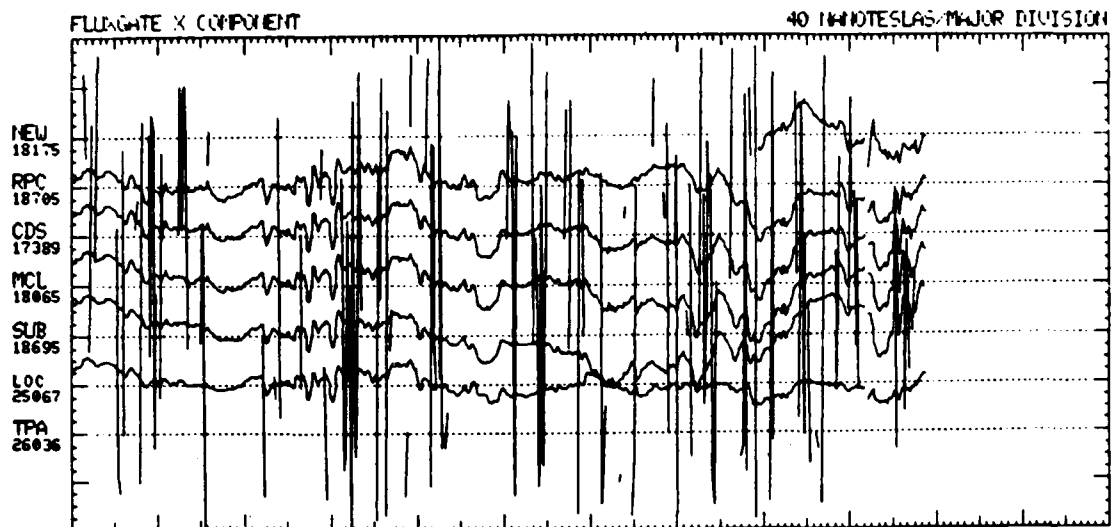
40 NANOTESLAS/MAJOR DIVISION

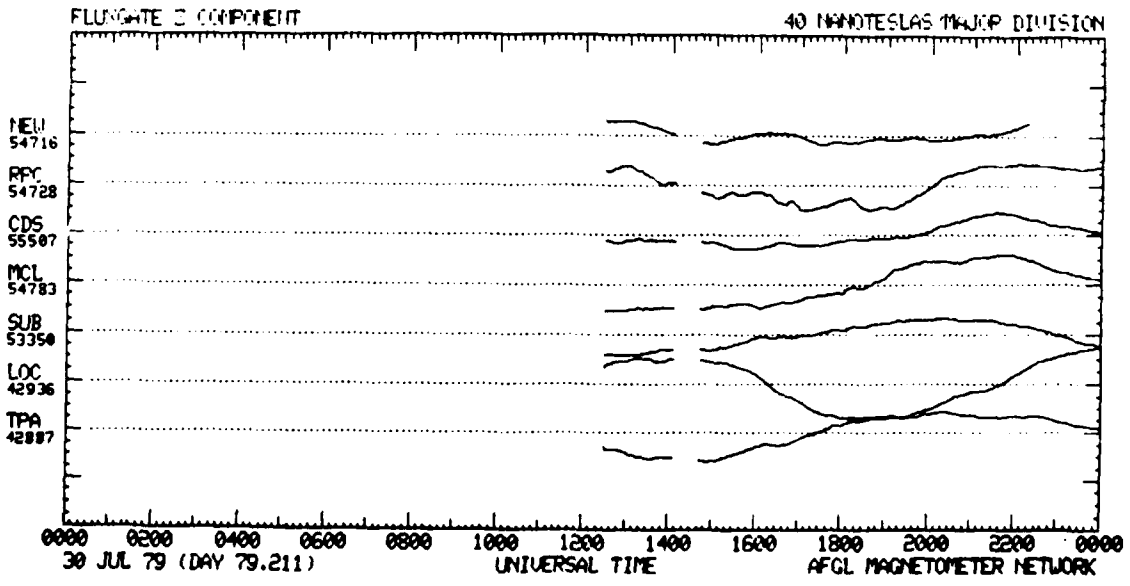
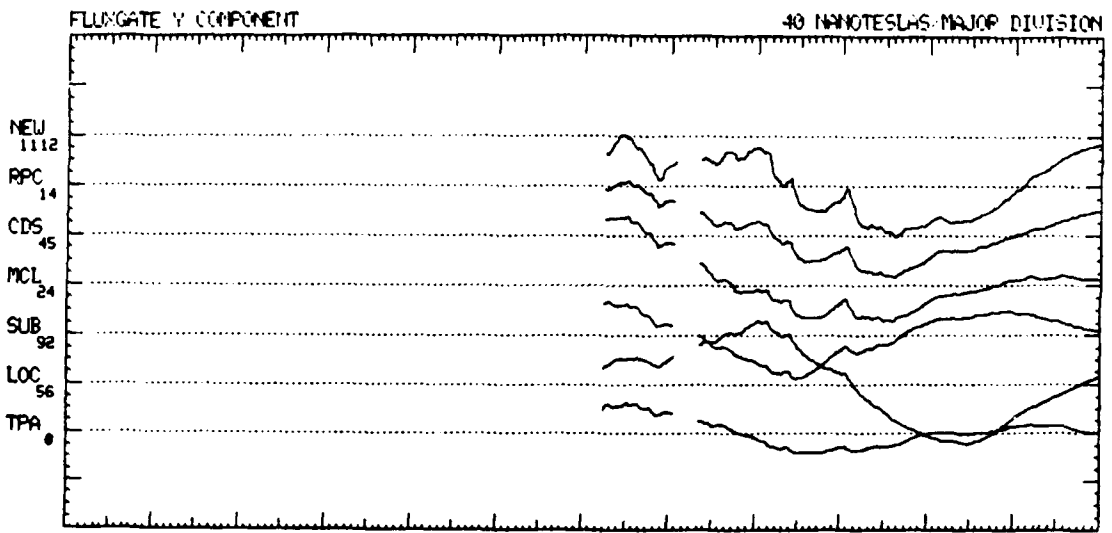
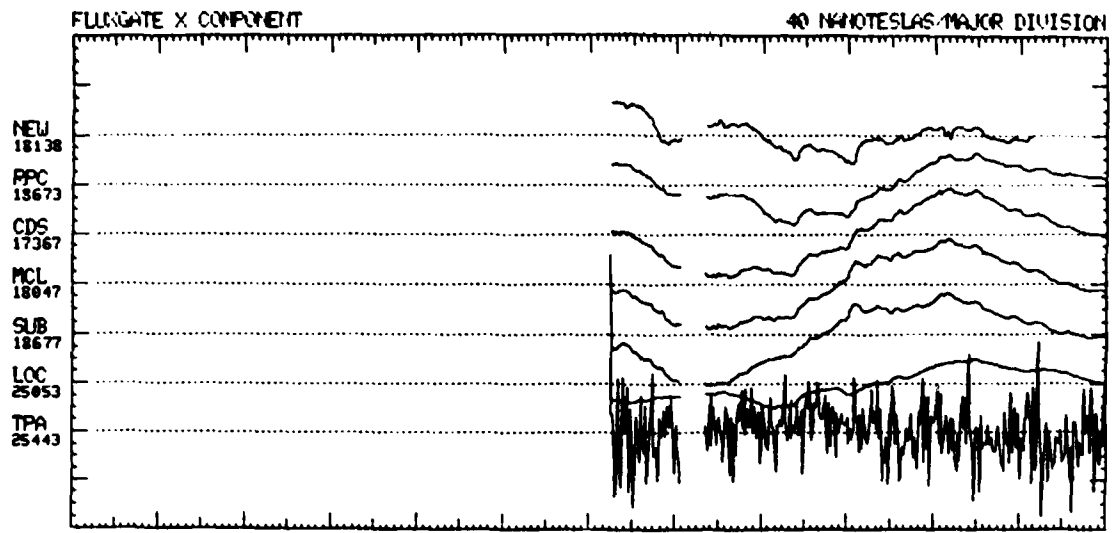


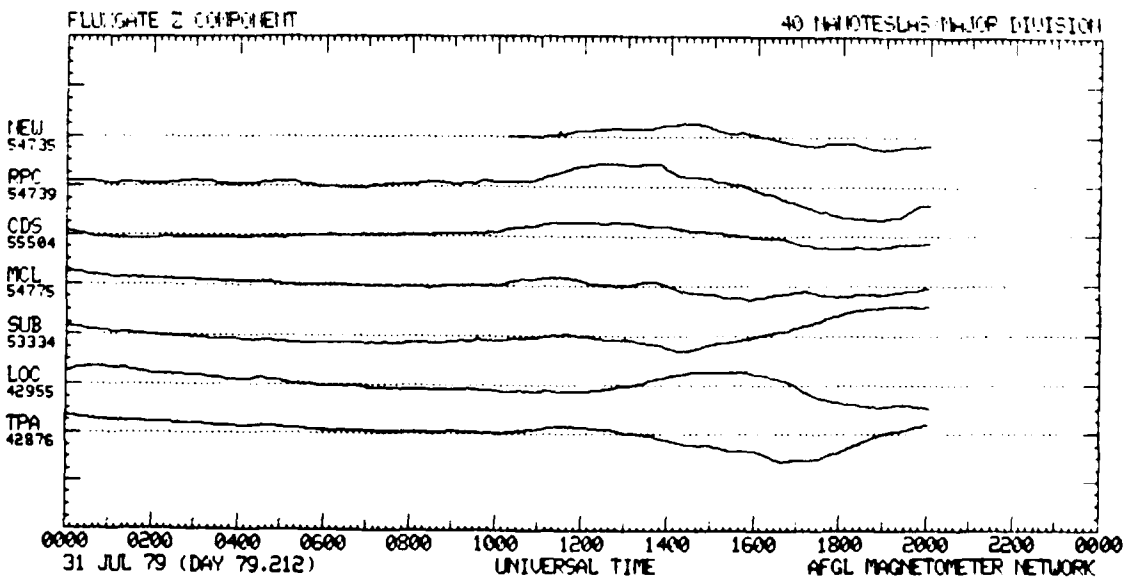
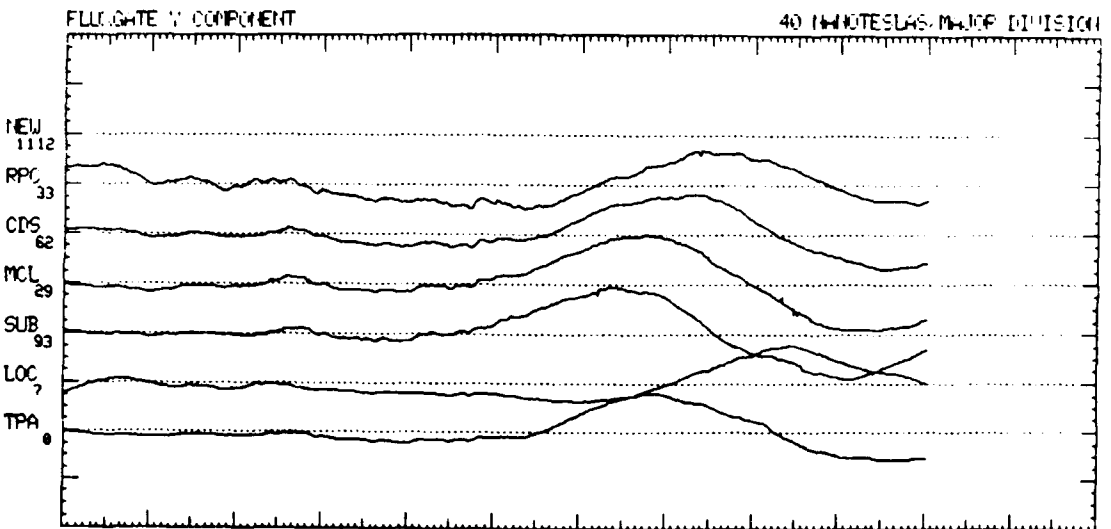
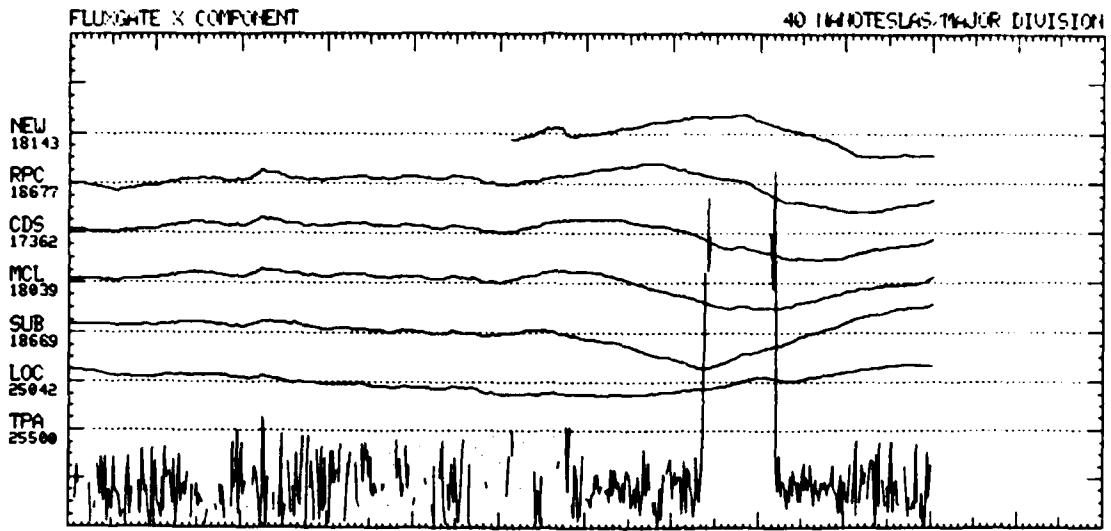
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 26 JUL 79 (DAY 79.207) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





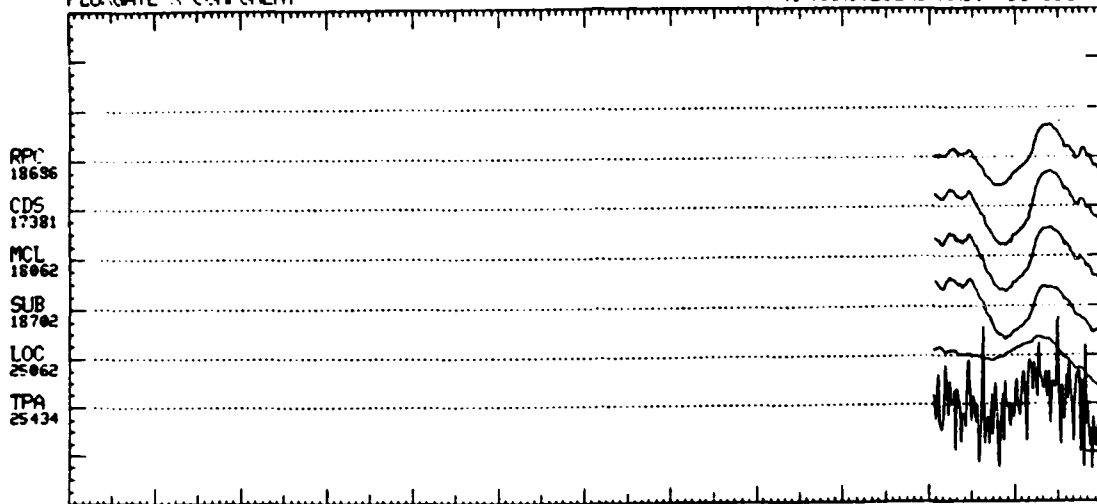






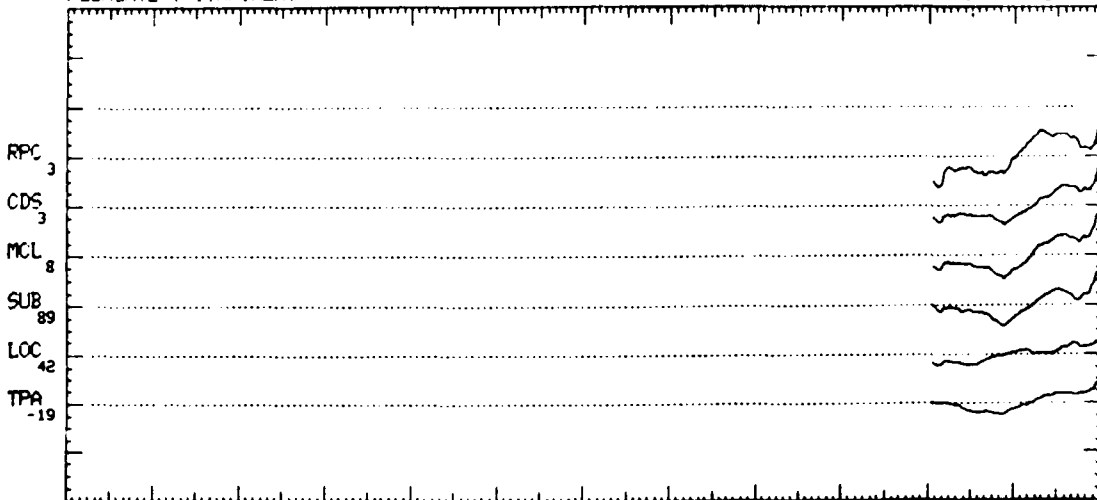
FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



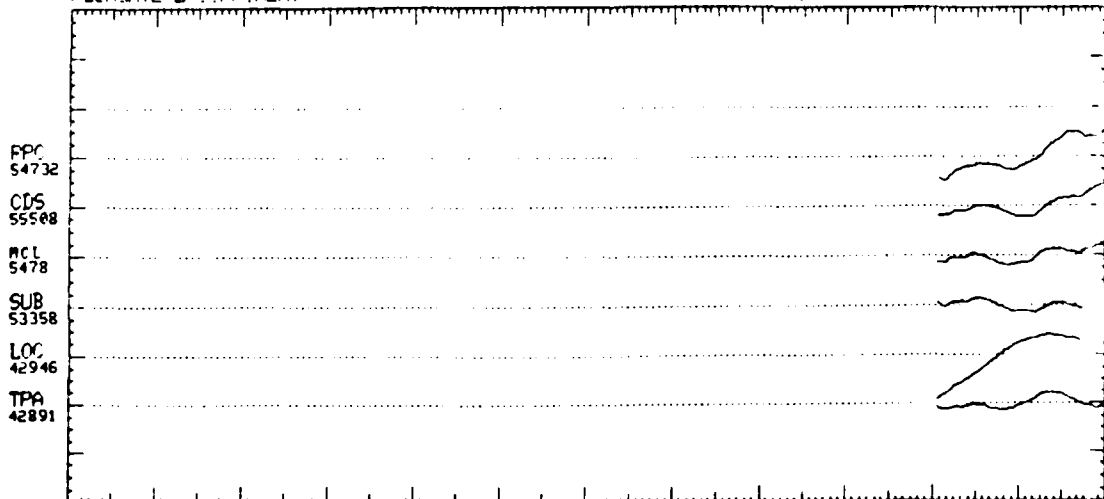
FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION



FLIGHTGATE Z COMPONENT

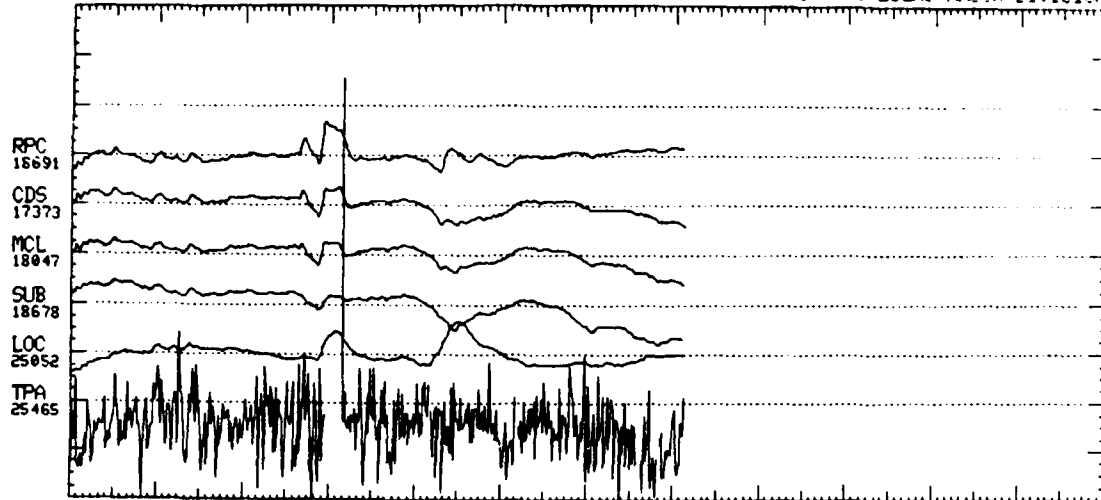
40 NANOTESLAS MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
01 AUG 79 (DAY 79.213) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

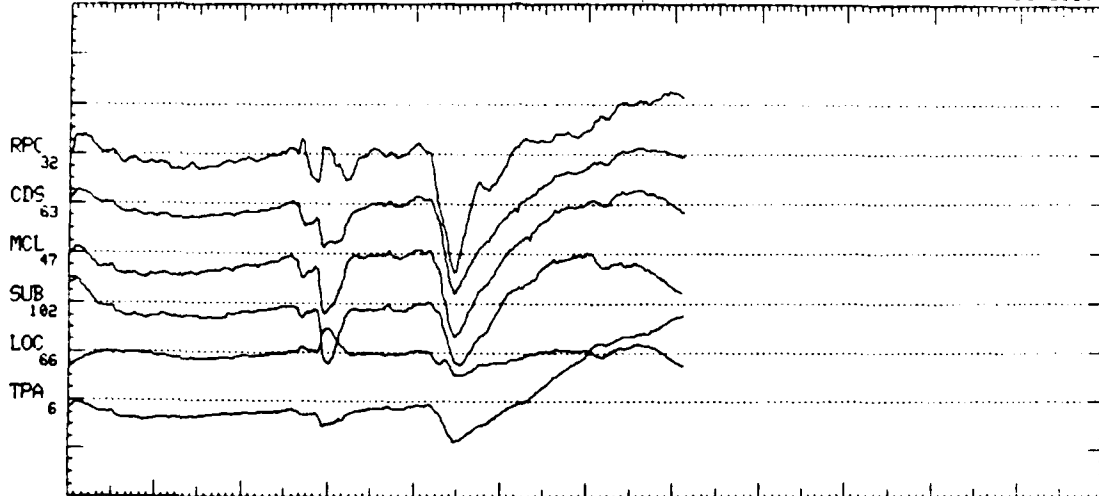
FLIGHTLINE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION



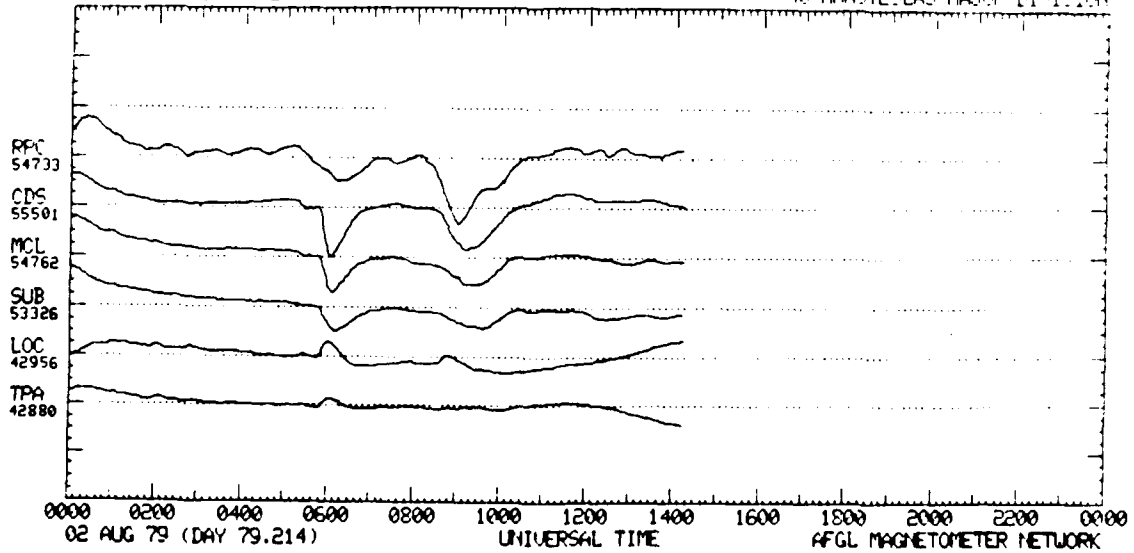
FLIGHTLINE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION



FLIGHTLINE Z COMPONENT

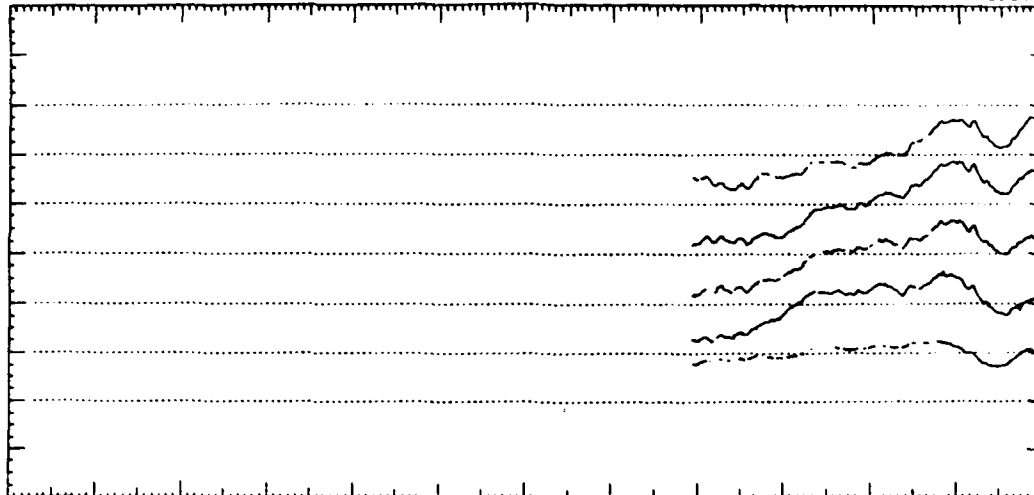
40 NANOTESLAH MAJOR DIVISION



FLURIGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

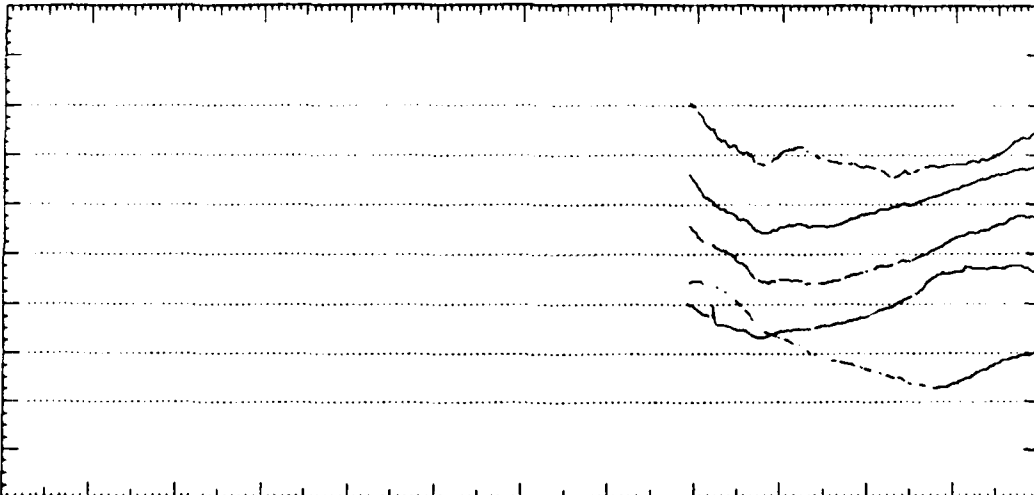
RPC
18672
CDS
17362
MCL
18046
SUB
1868
LOC
25041
TPA
25465



FLURIGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

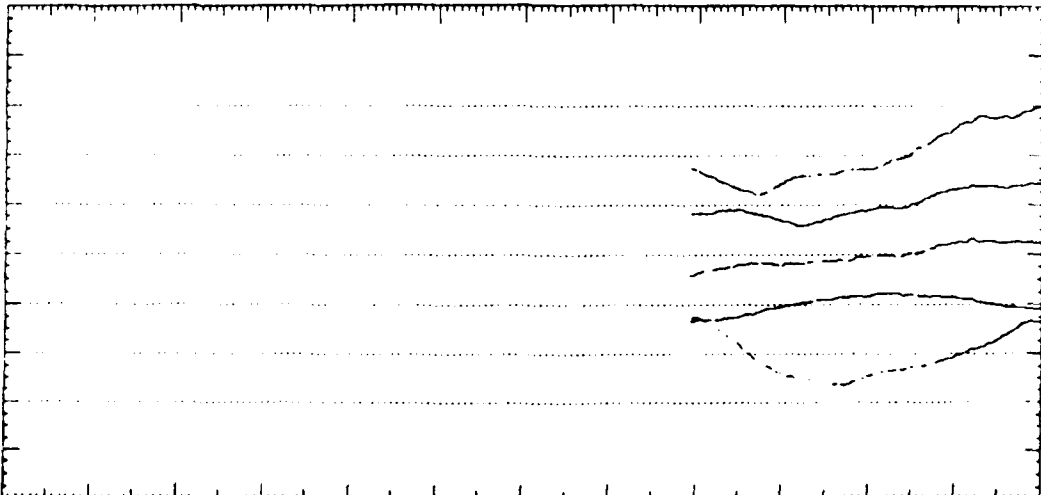
RPC
6
CDS
32
MCL
-1
SUB
80
LOC
62
TPA
6



FLURIGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

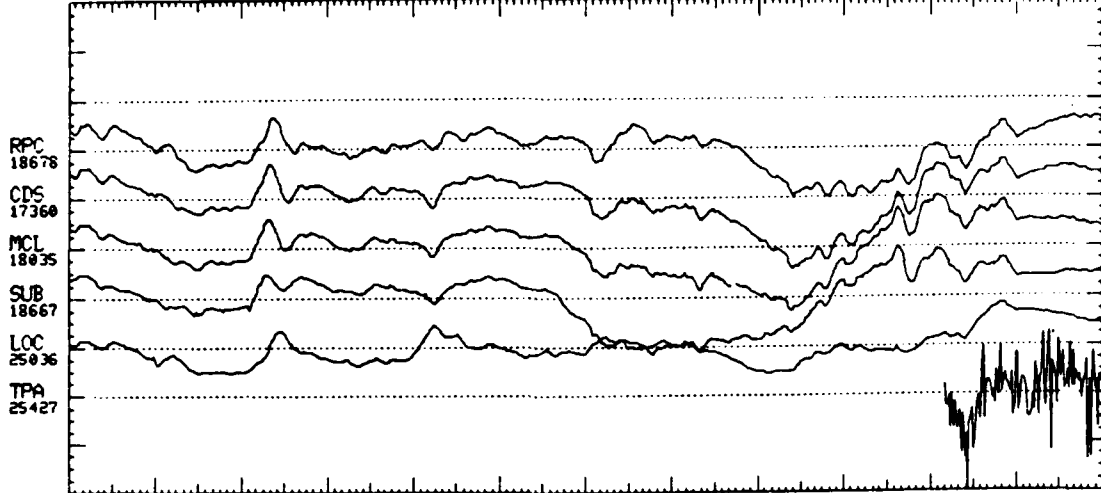
RPC
54723
CDS
55500
MCL
54784
SUB
53348
LOC
42931
TPA
42880



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 AUG 79 (DAY 79.215) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

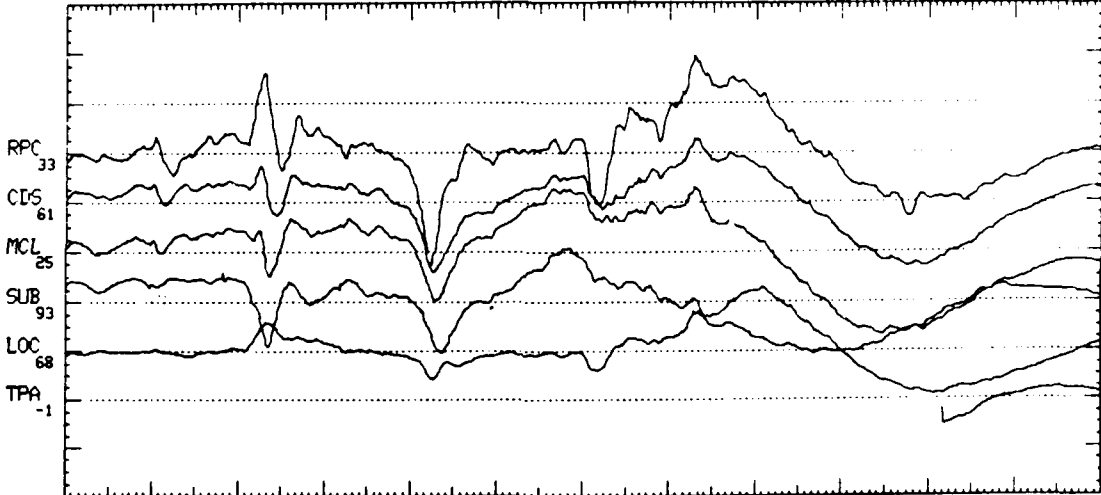
FLIGHTLINE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



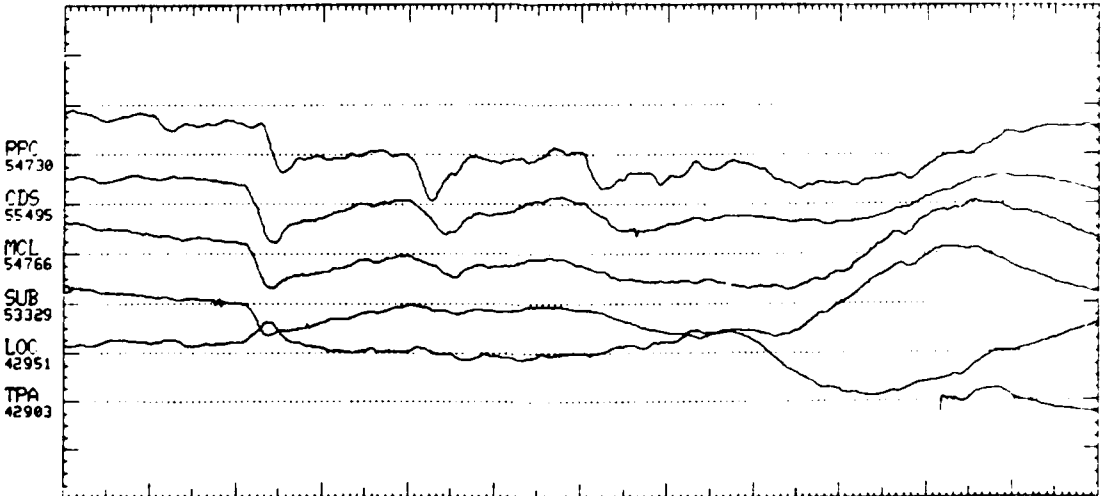
FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

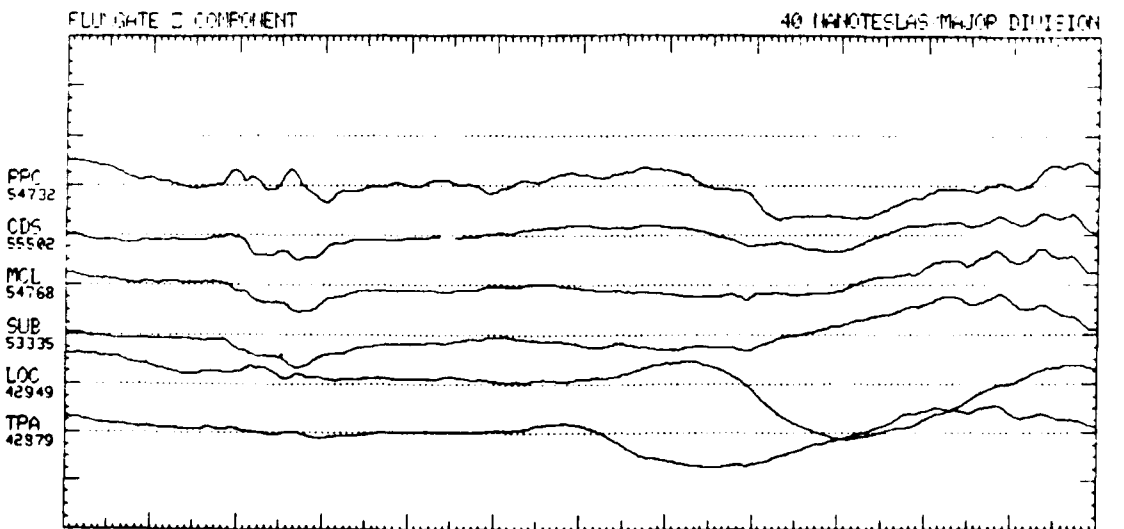
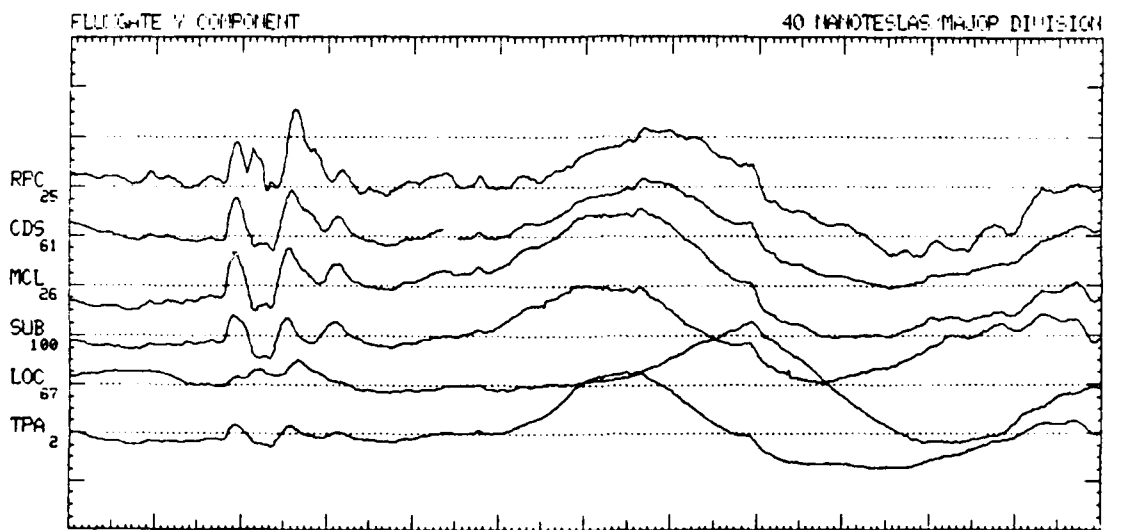
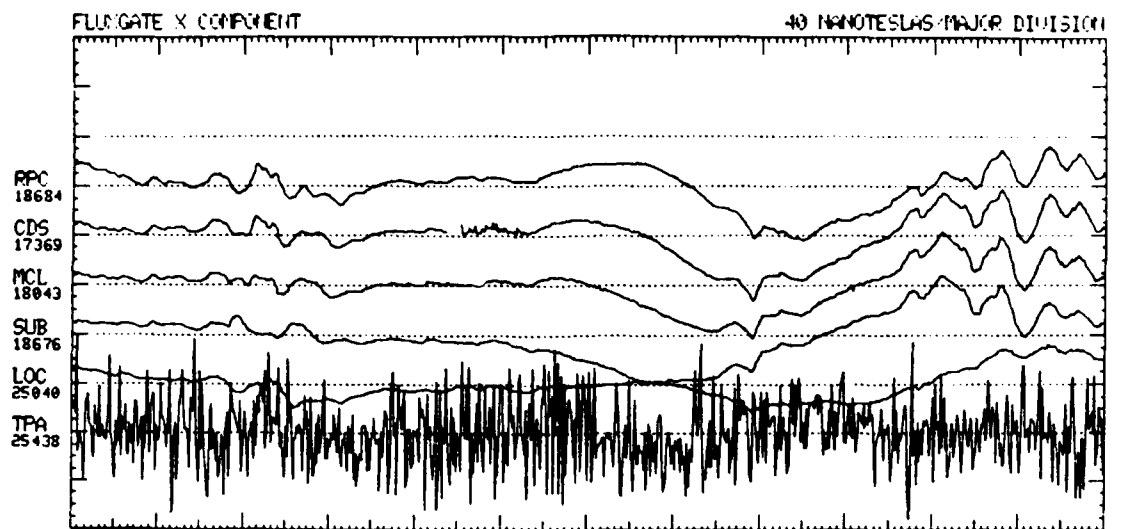


FLIGHTLINE Z COMPONENT

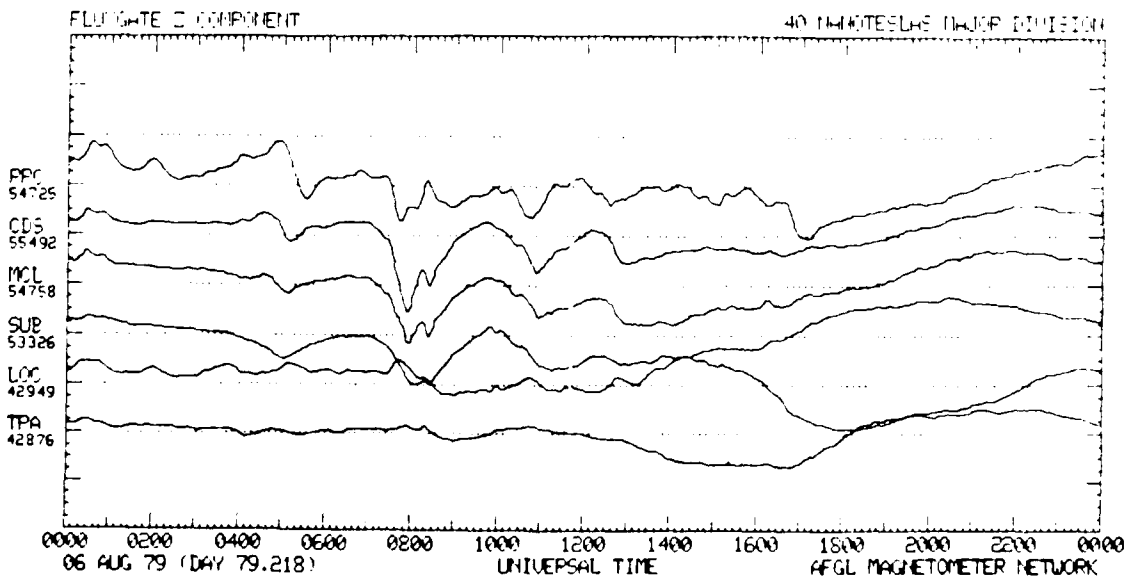
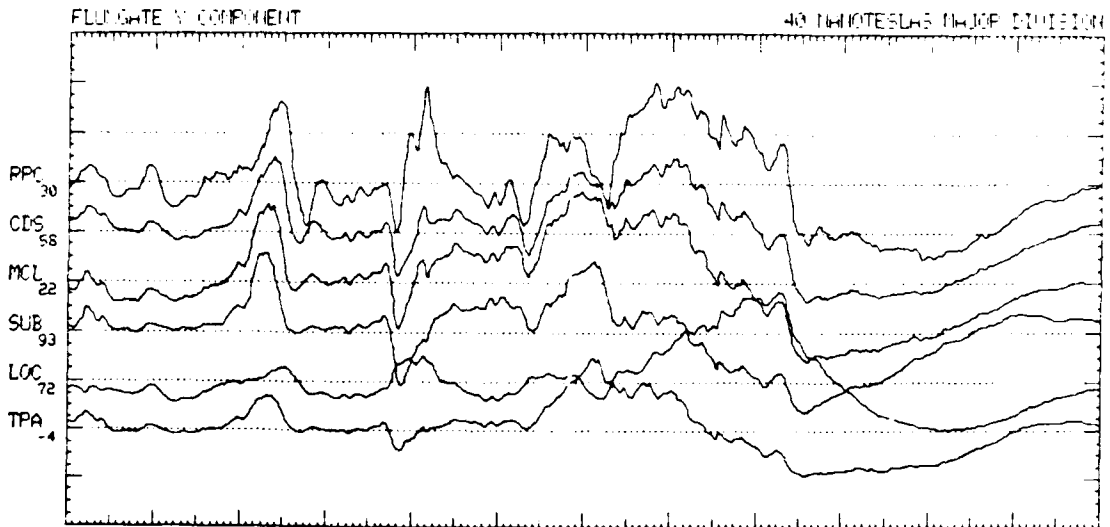
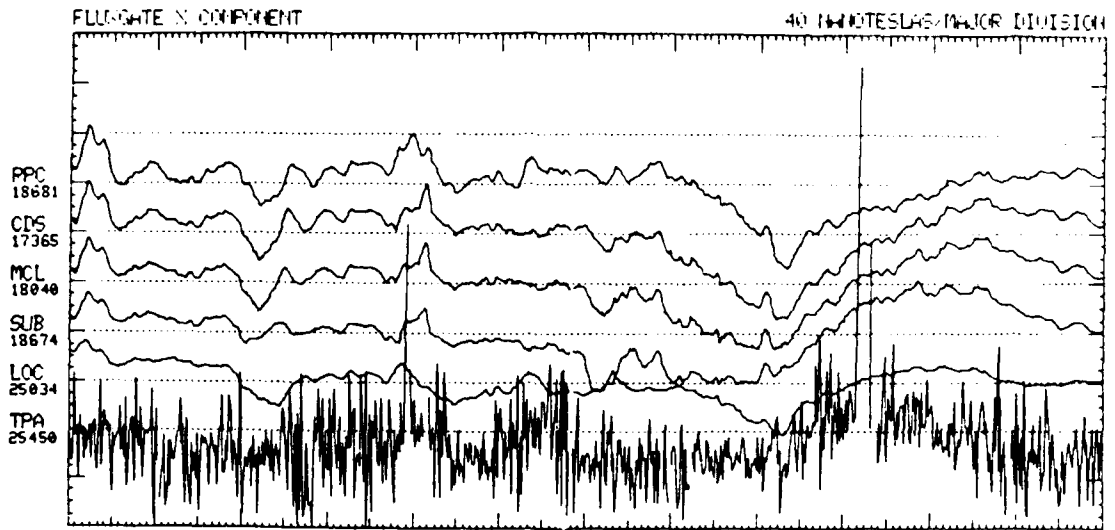
40 NANOTESLAS/MAJOR DIVISION

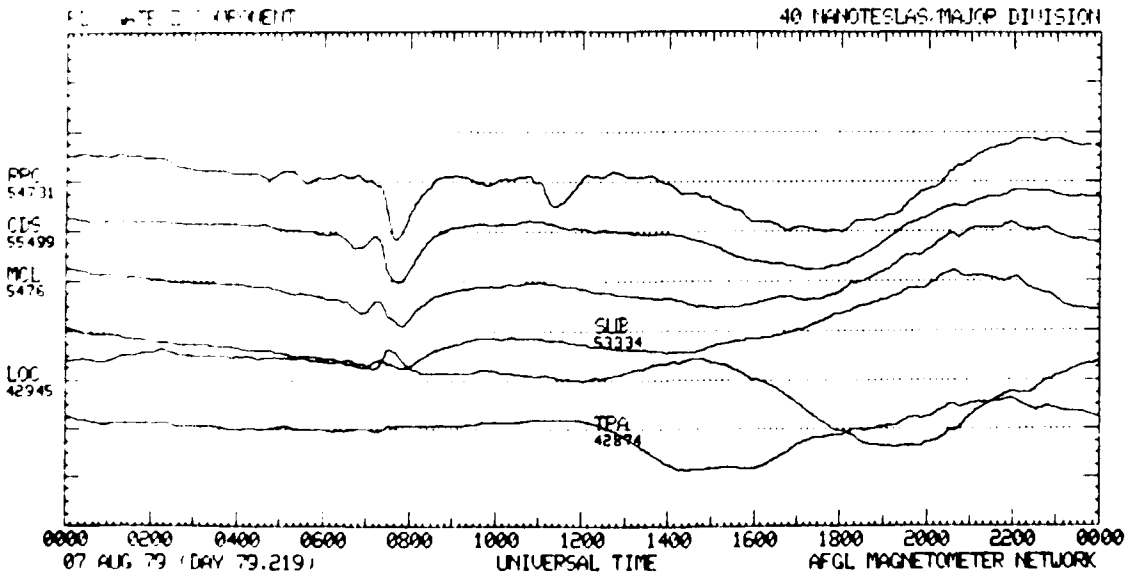
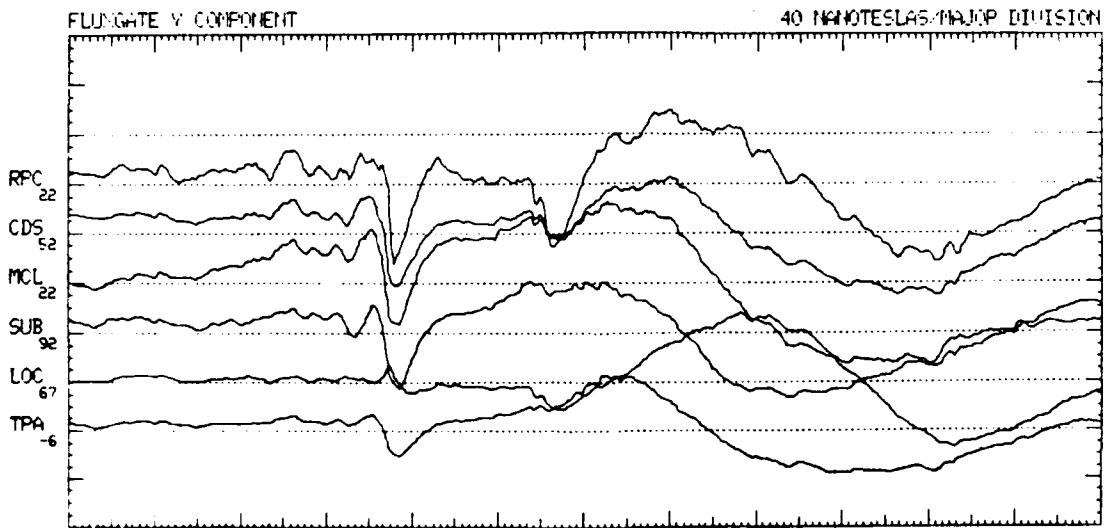
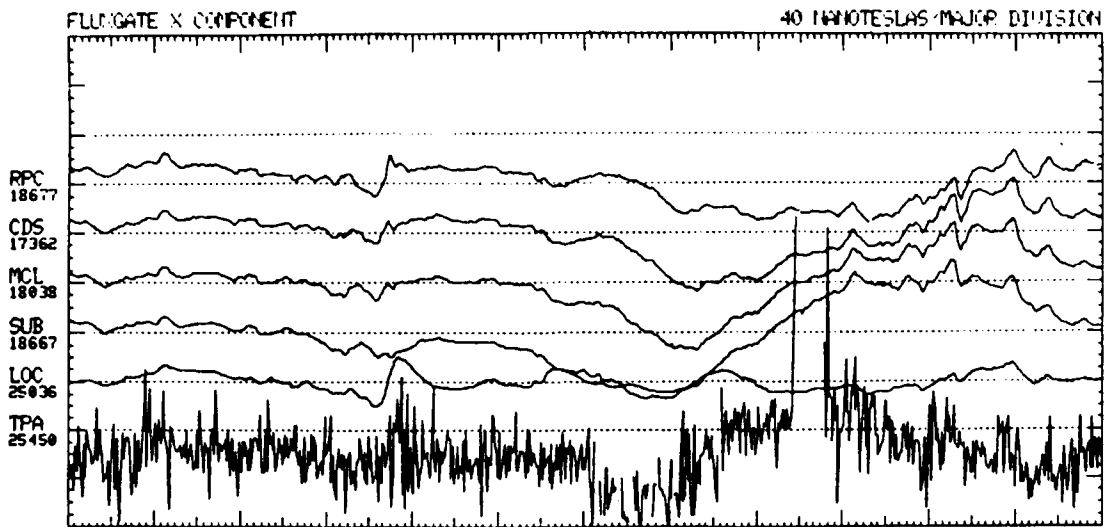


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 04 AUG 79 (DAY 79.216) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



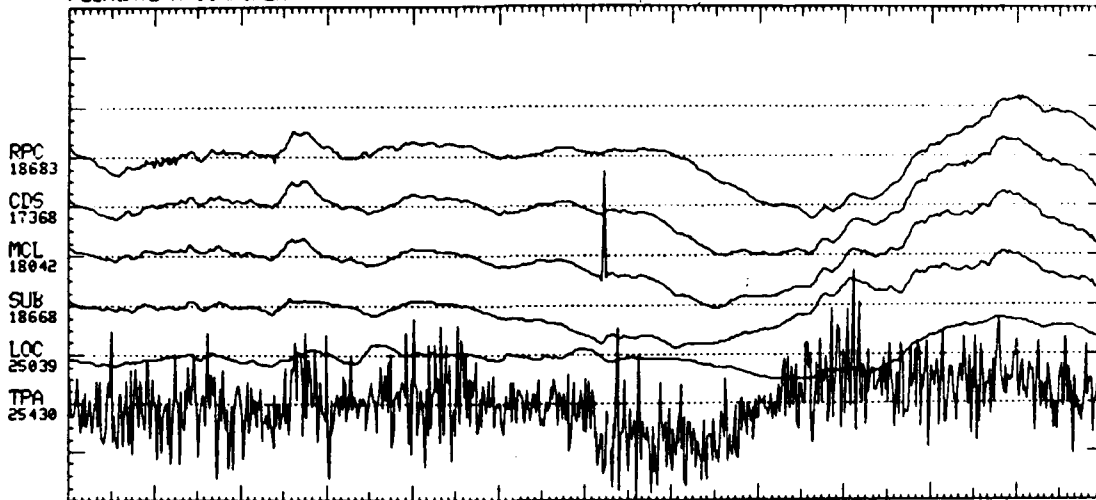
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 05 AUG 79 (DAY 79.217) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





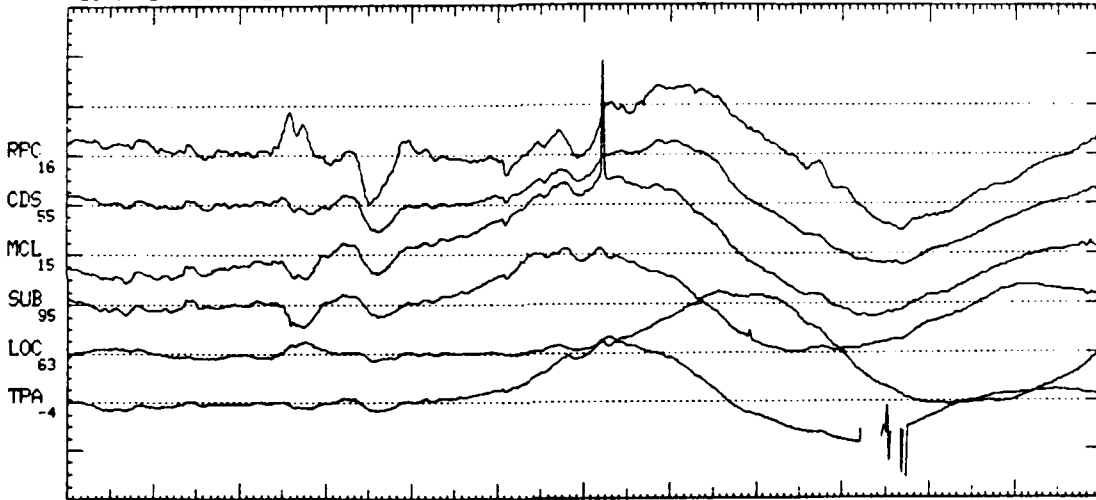
FLURIGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



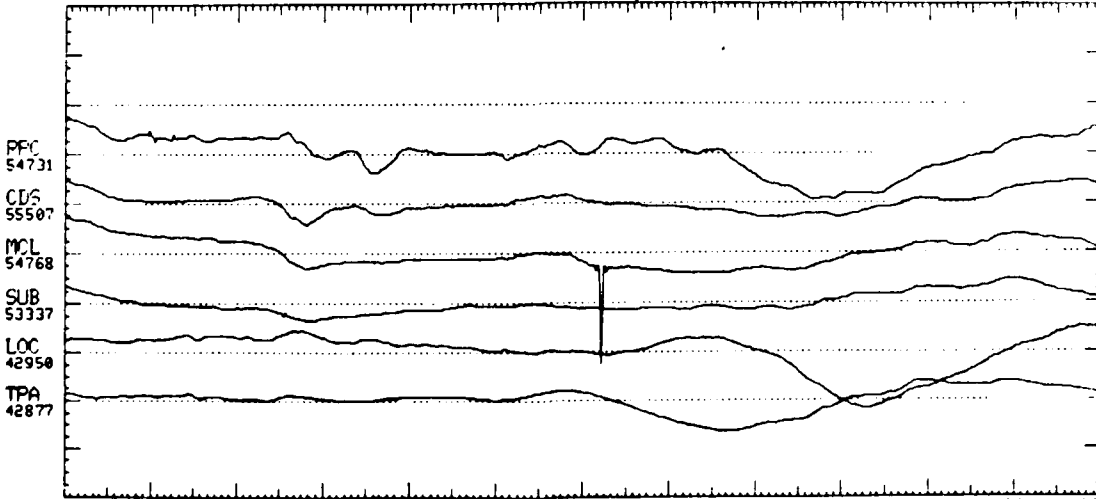
FLURIGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLURIGATE Z COMPONENT

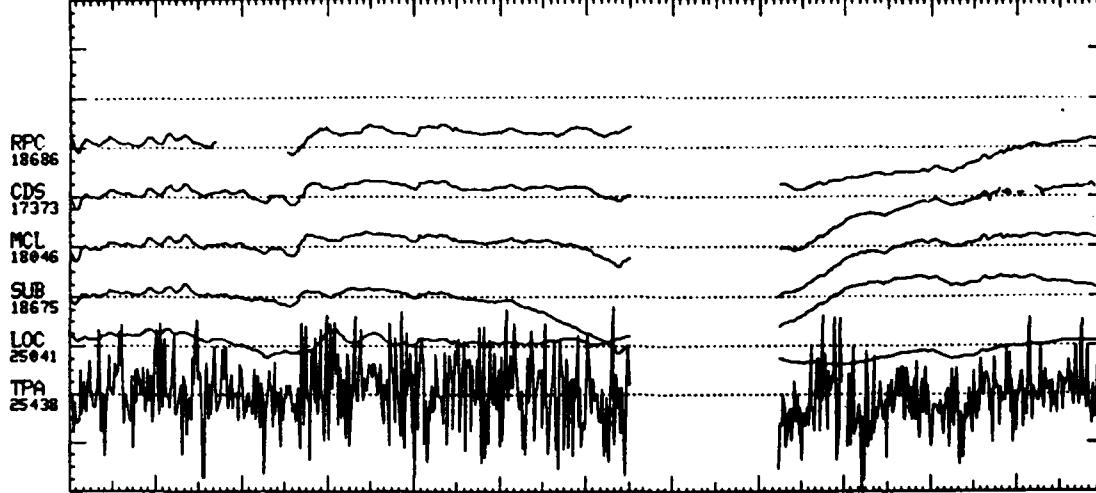
40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
08 AUG 79 (DAY 79.220) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

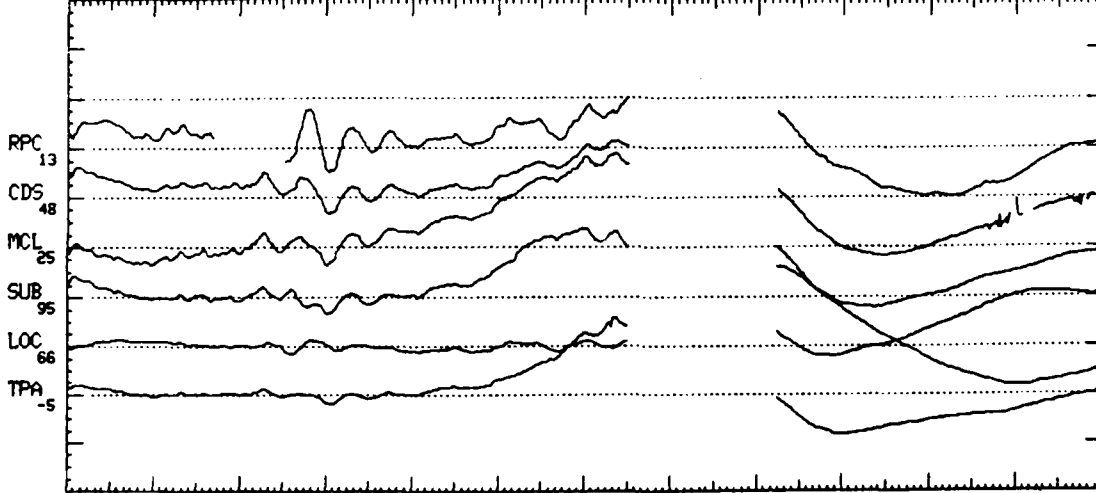
FLUNGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



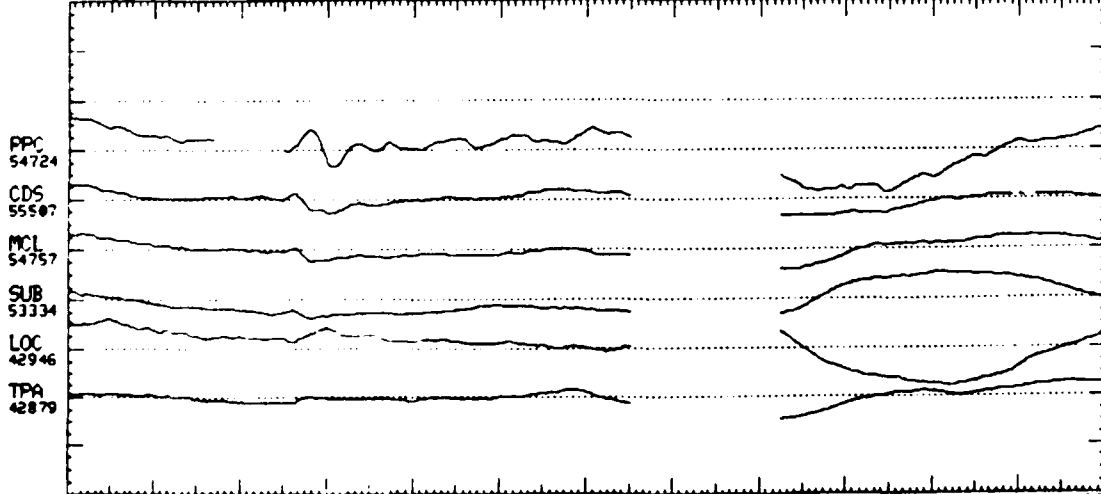
FLUNGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

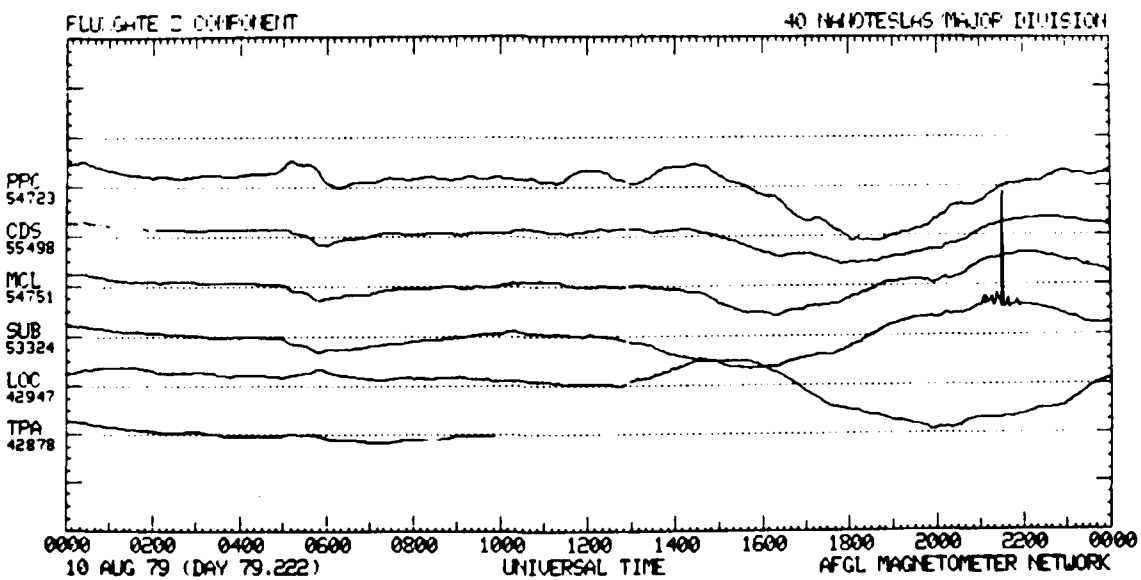
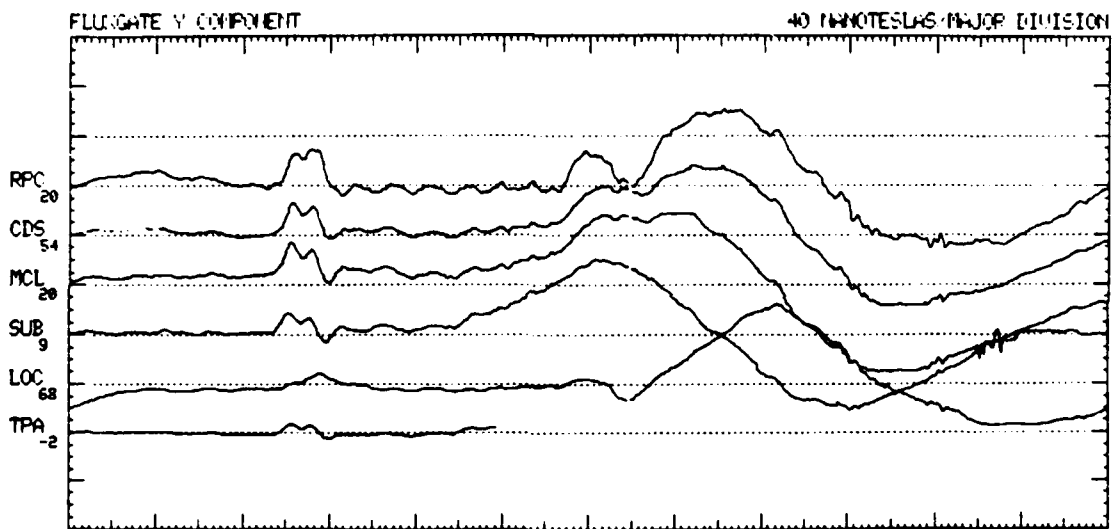
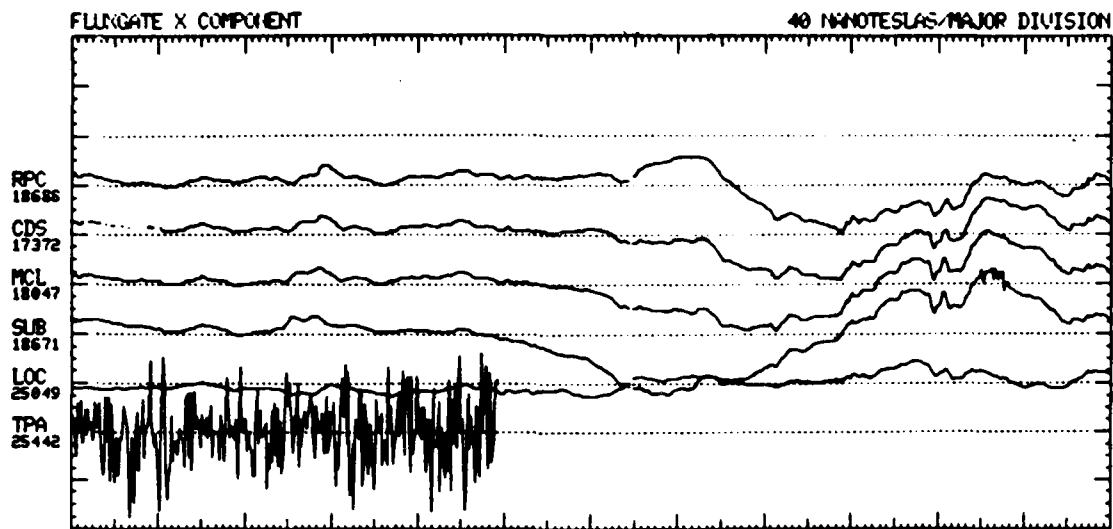


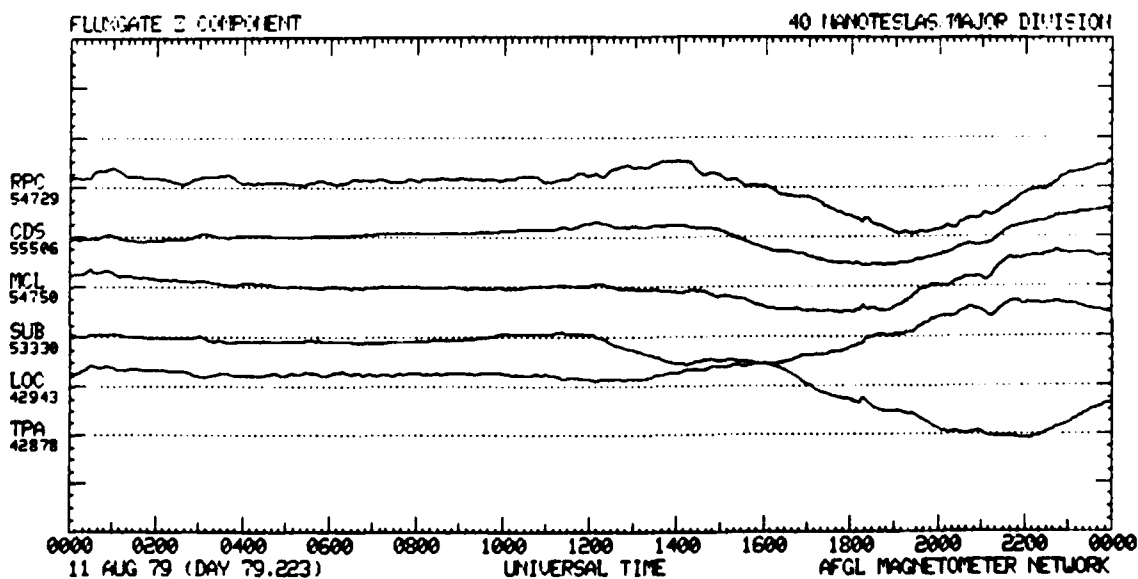
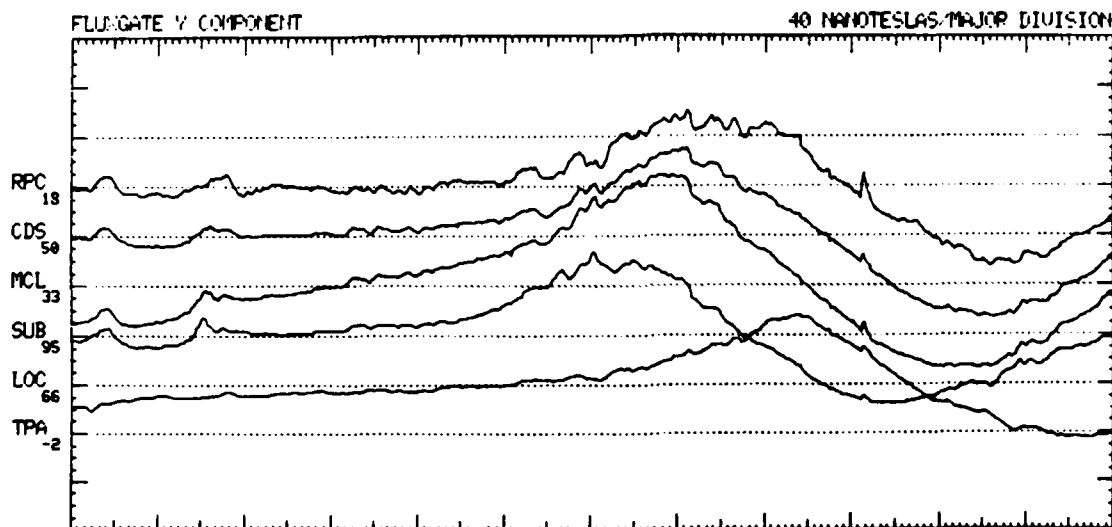
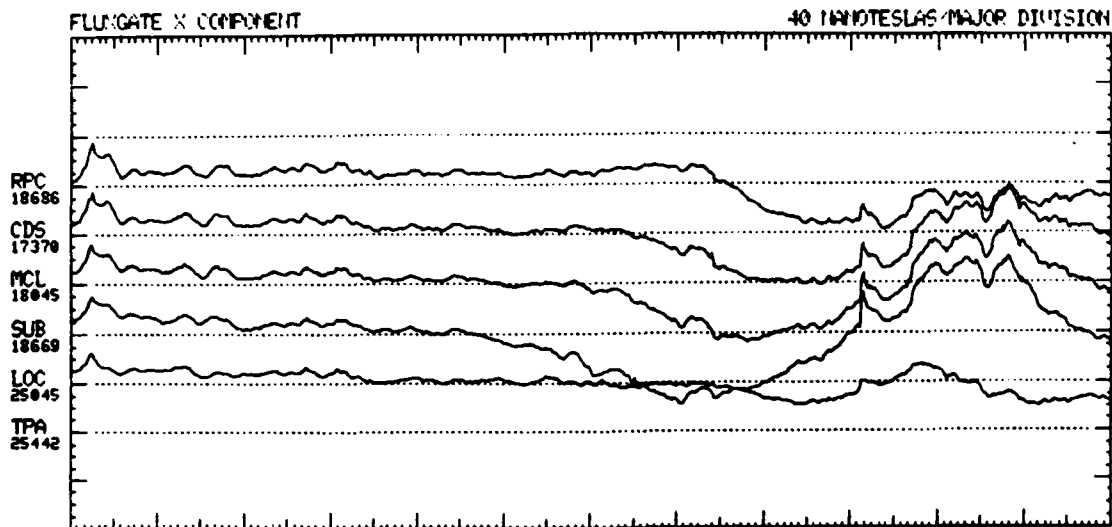
FLUNGATE Z COMPONENT

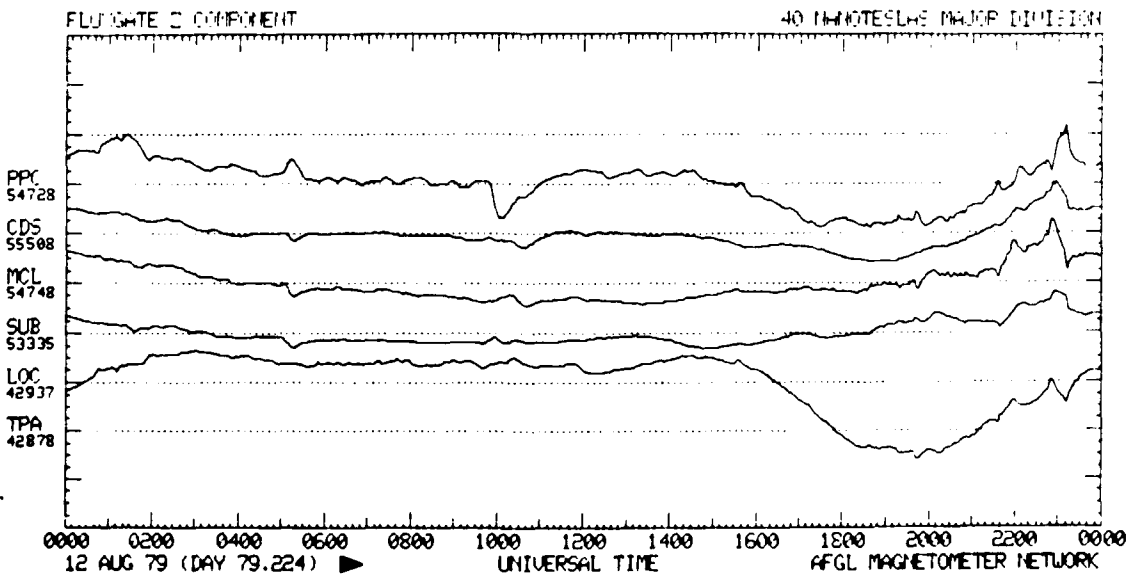
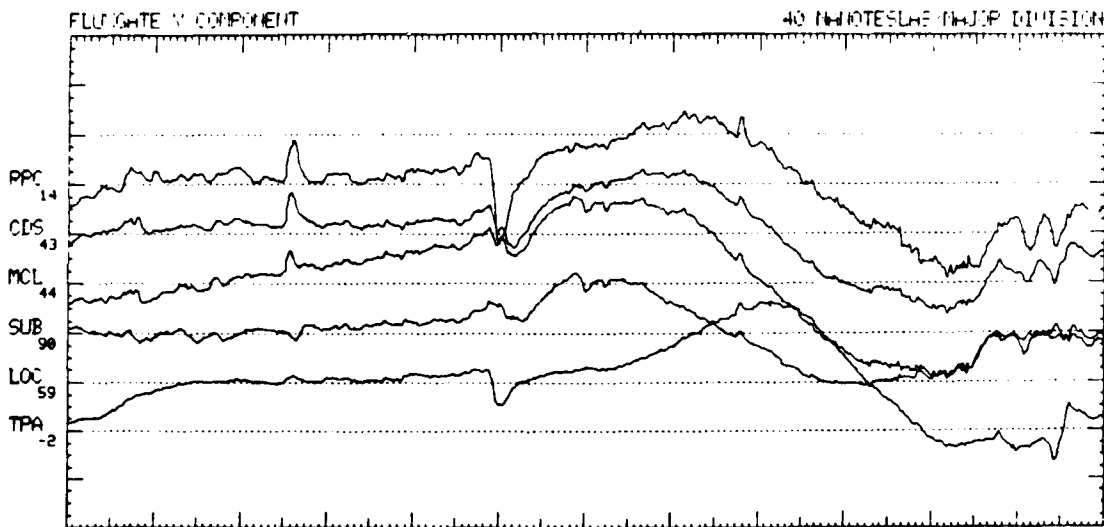
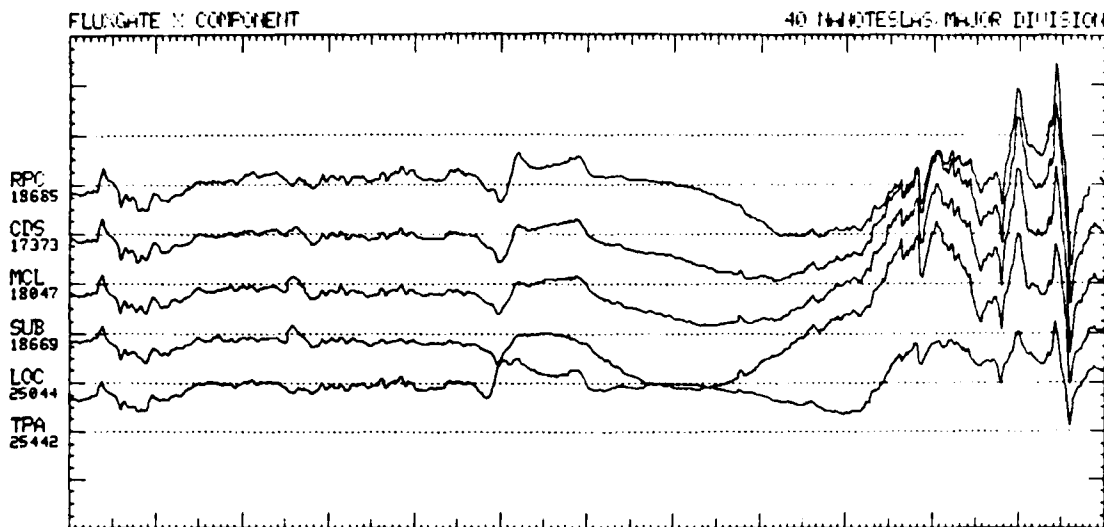
40 NANOTESLAS/MAJOR DIVISION

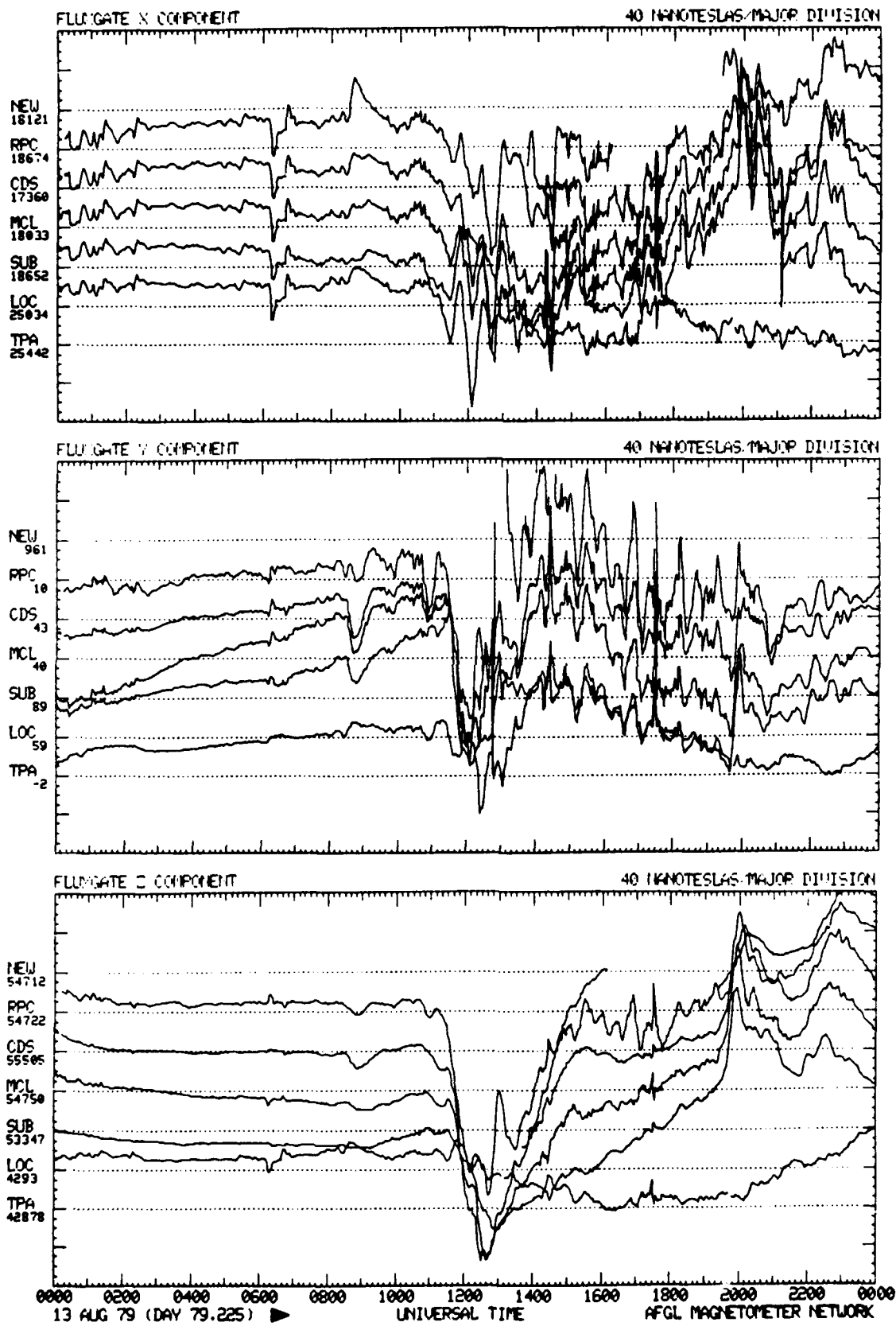


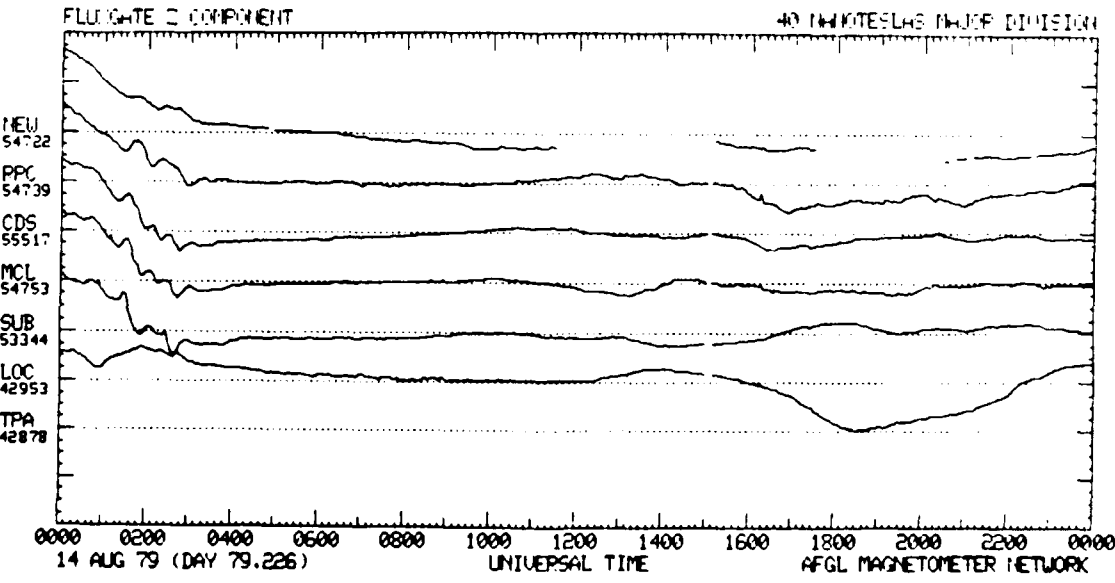
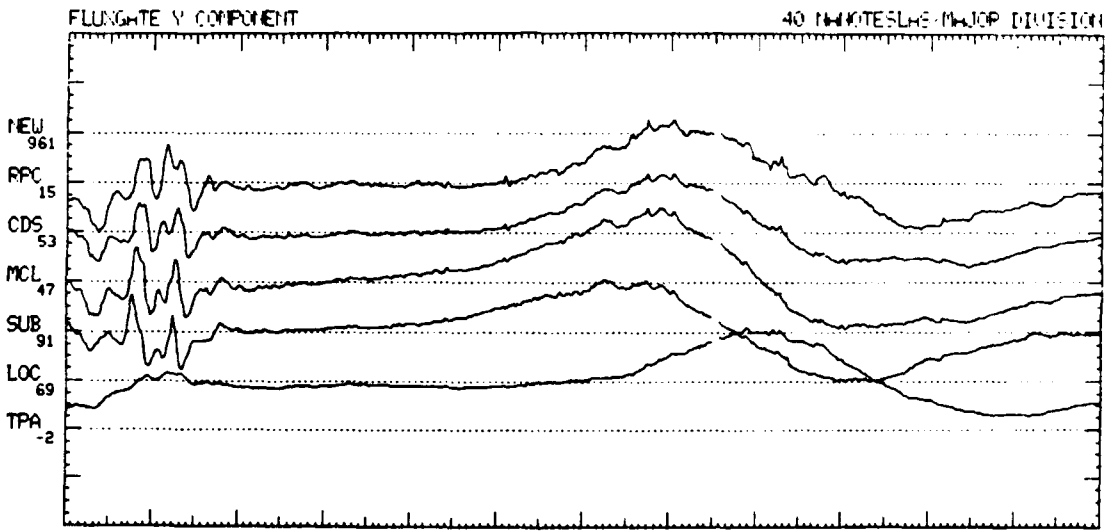
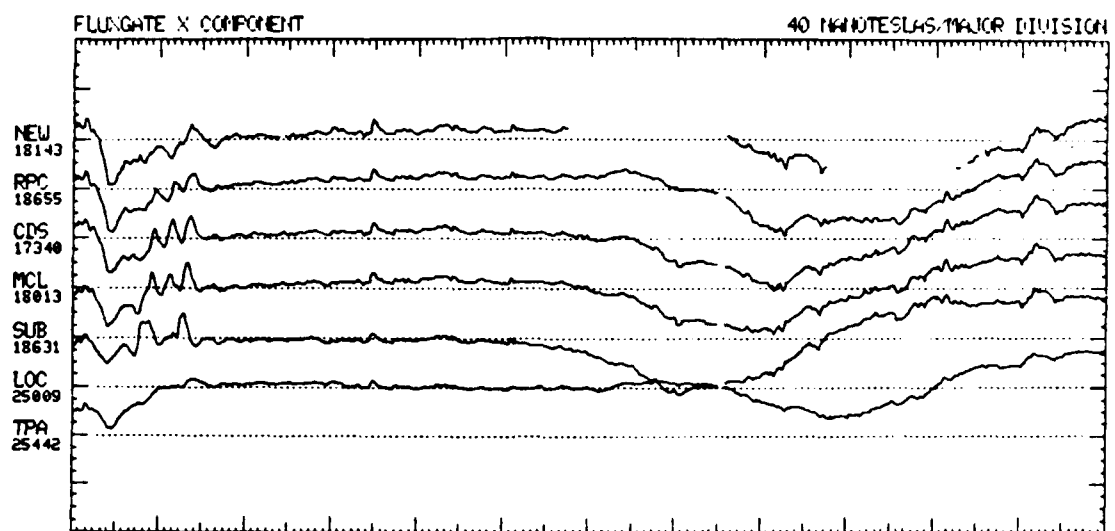
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 AUG 79 (DAY 79.221) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

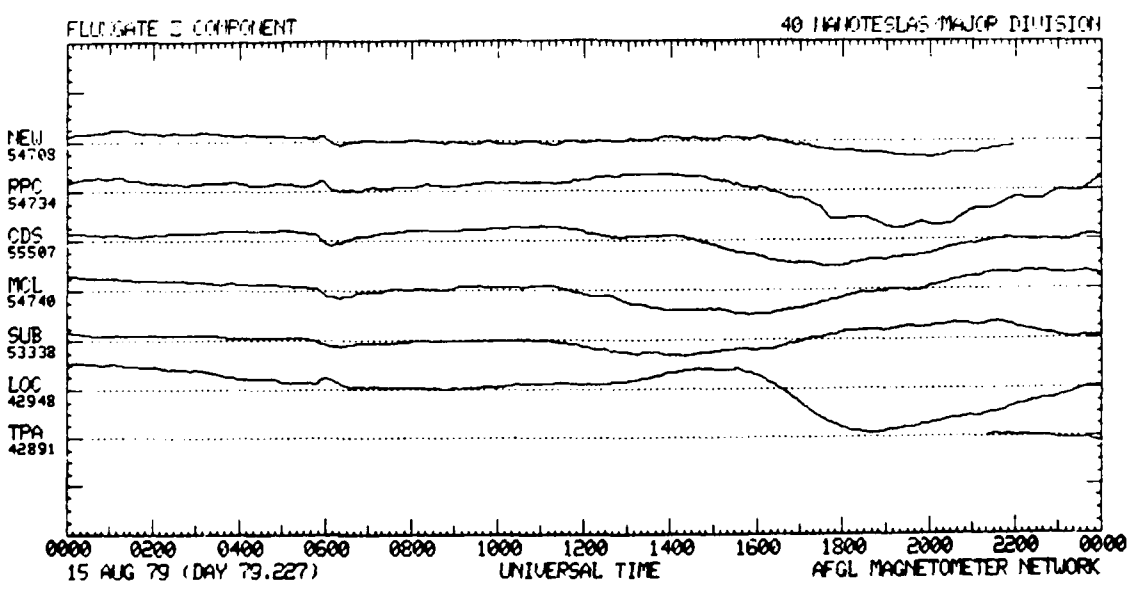
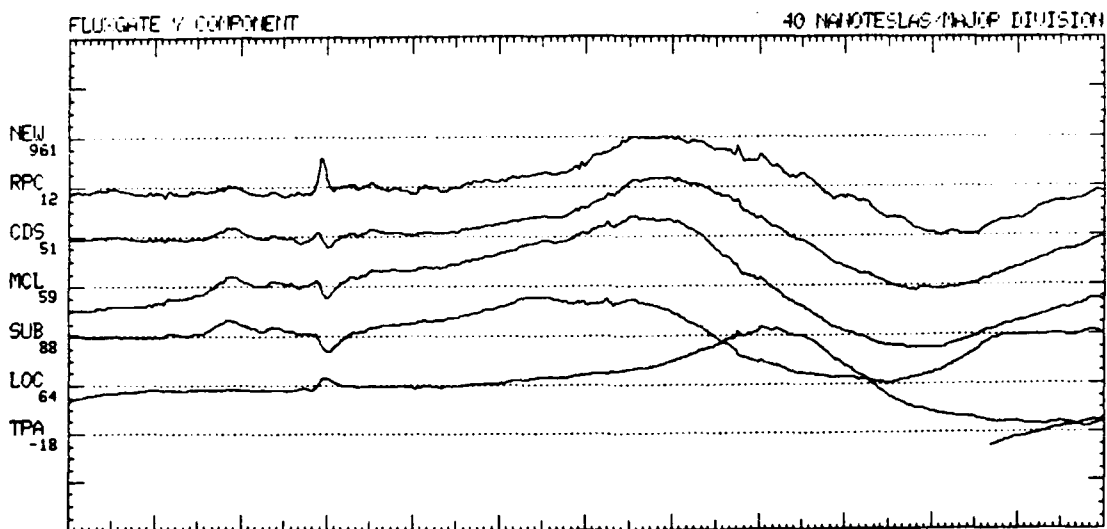
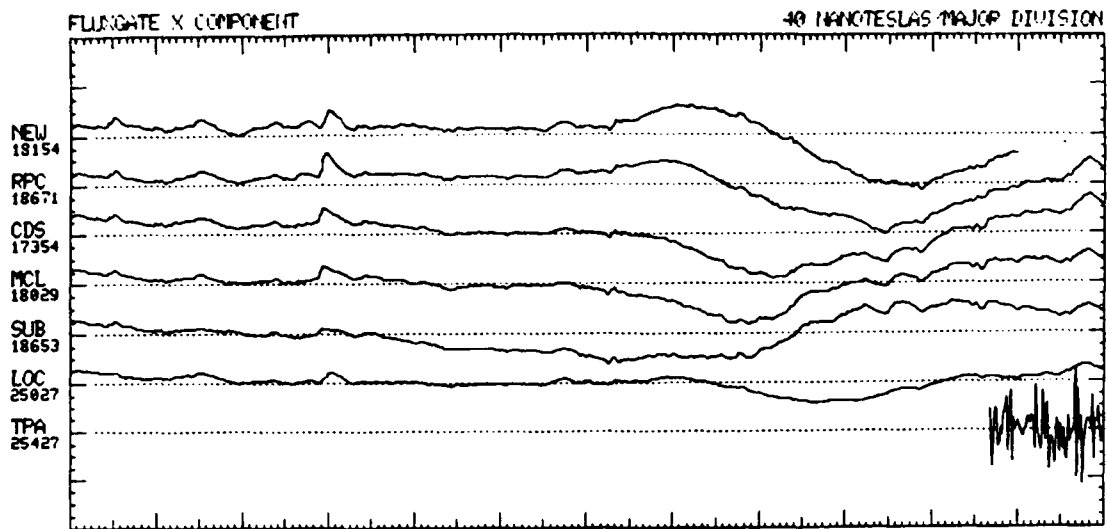


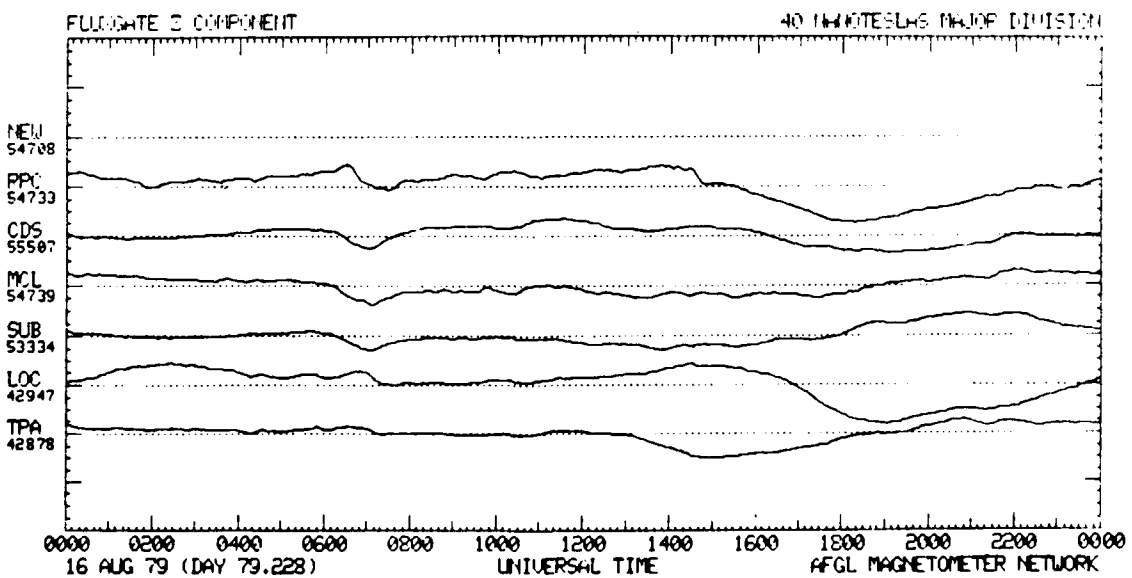
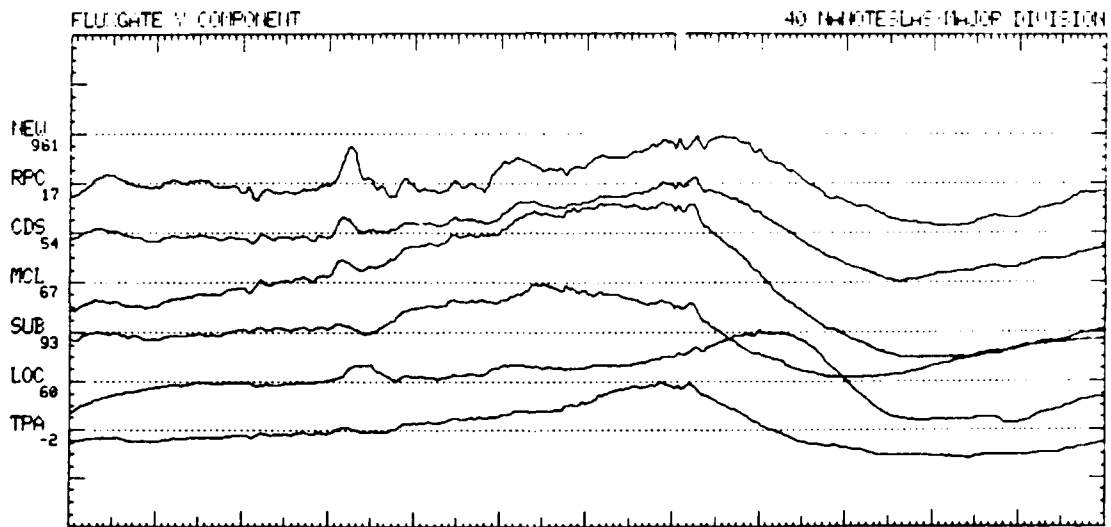
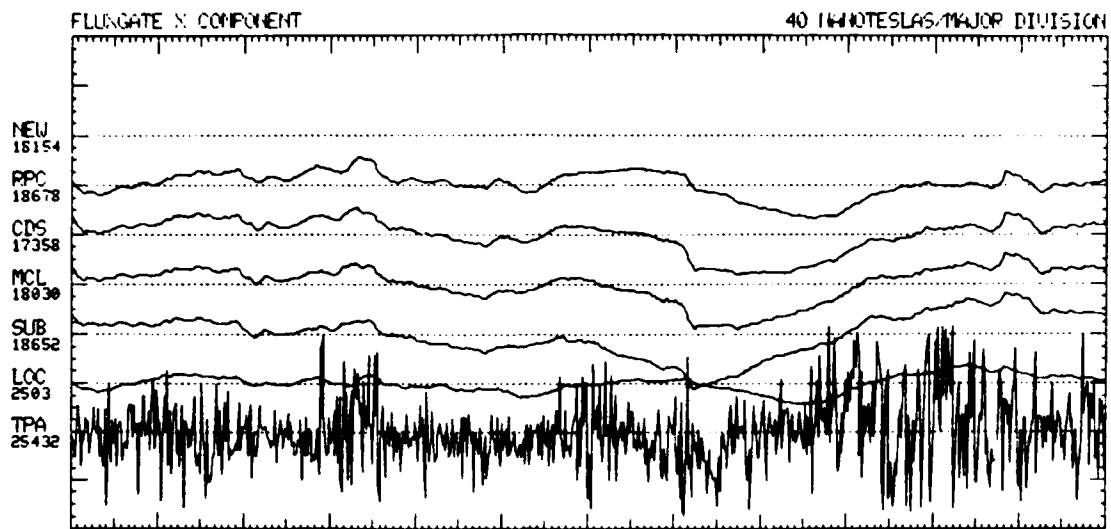








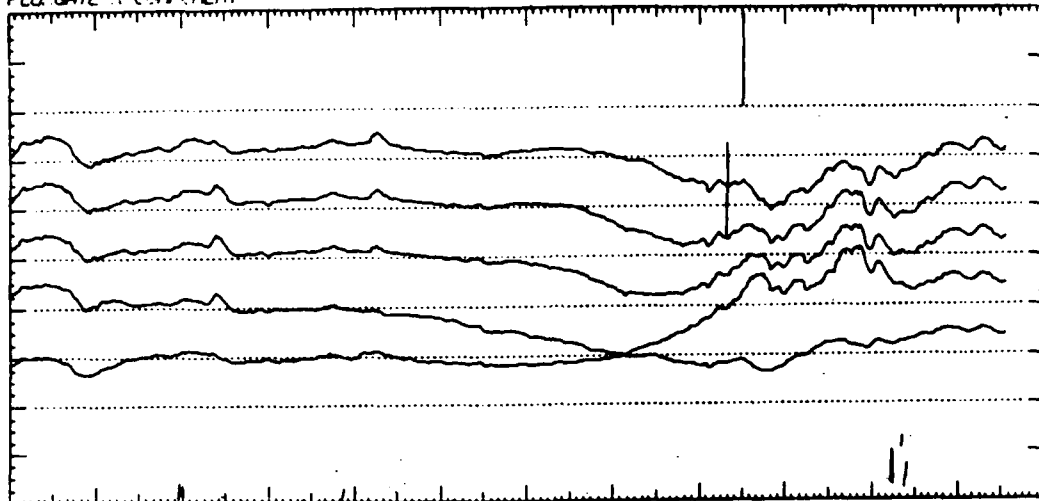




FLIGHT X COMPONENT

40 NANOTESLAS MAJOR DIVISION

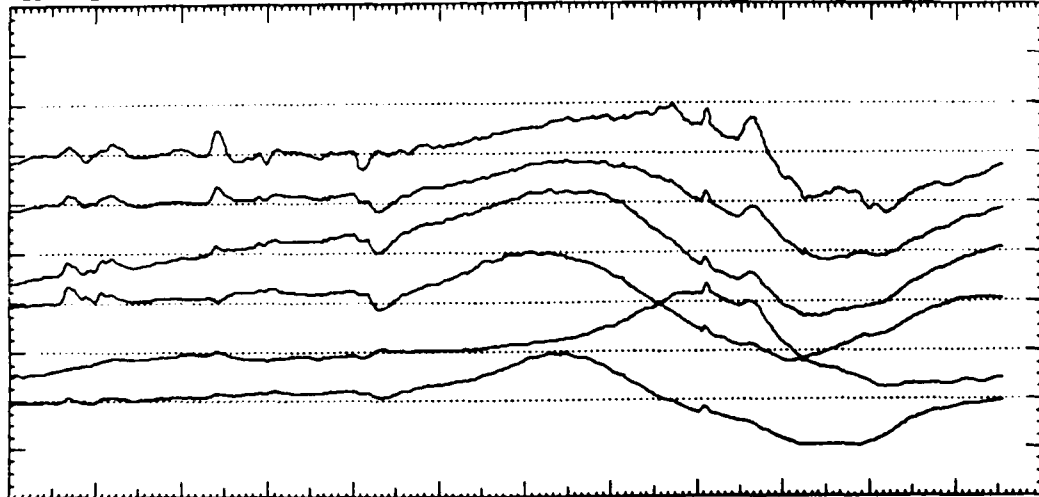
NEU
18154
RPC
18678
CDS
17359
MCL
18935
SUB
18656
LOC
25941
TPA
25551



FLIGHT Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

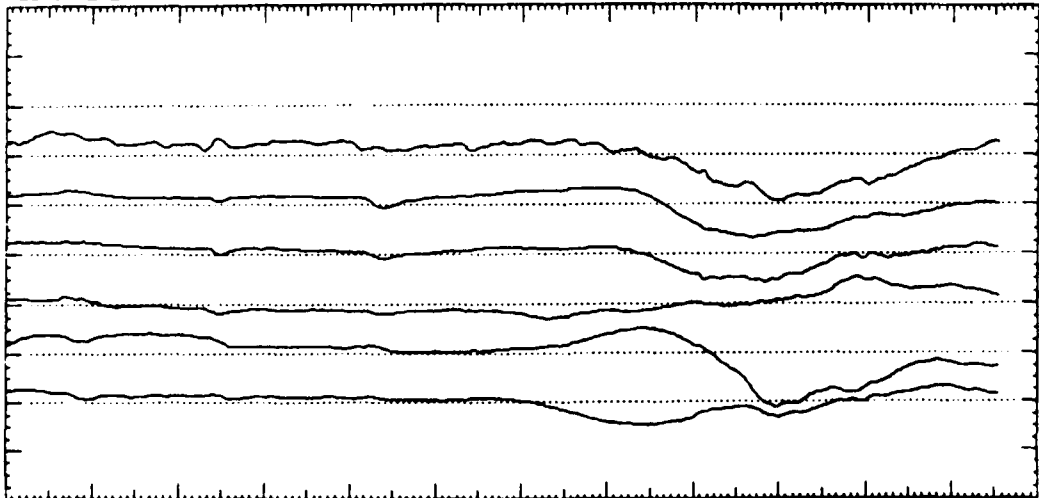
NEU
961
RPC
18
CDS
48
MCL
54
SUB
91
LOC
65
TPA
-9



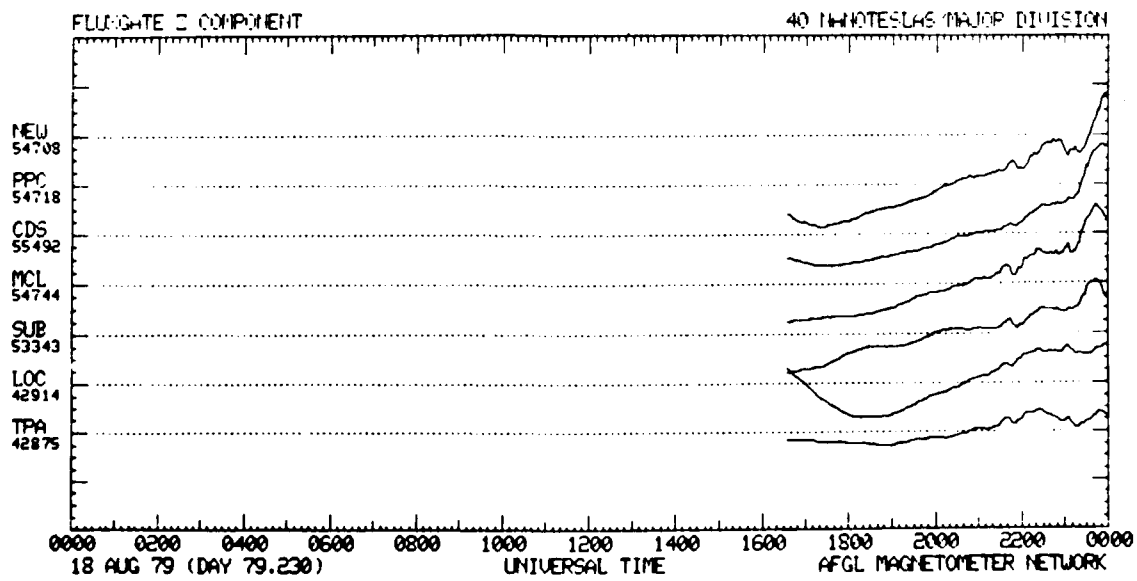
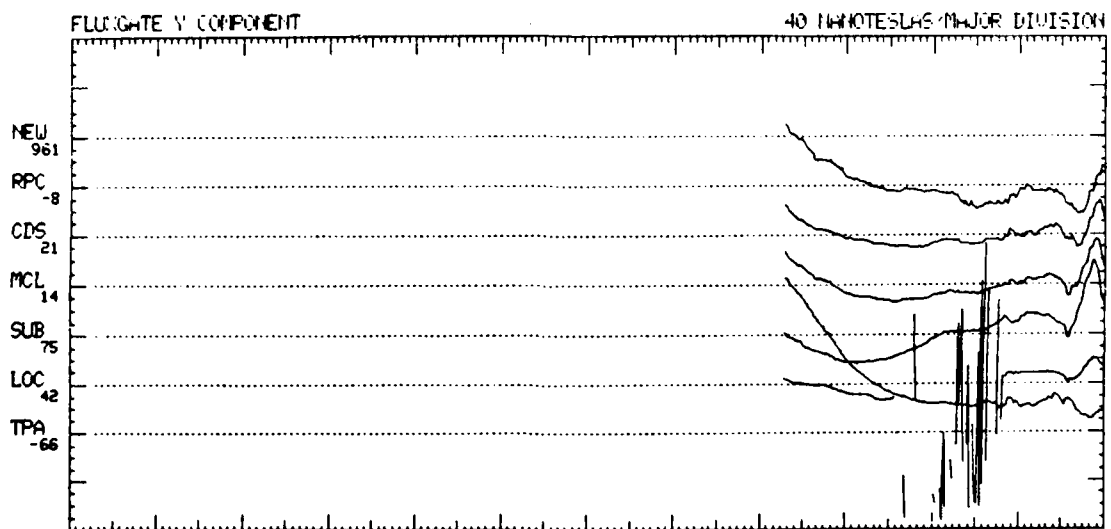
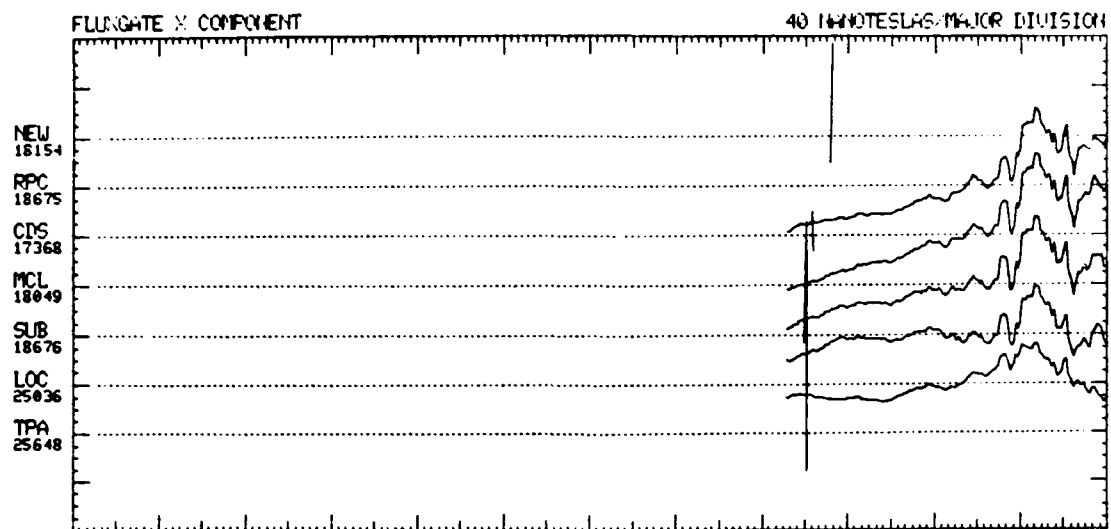
FLIGHT Z COMPONENT

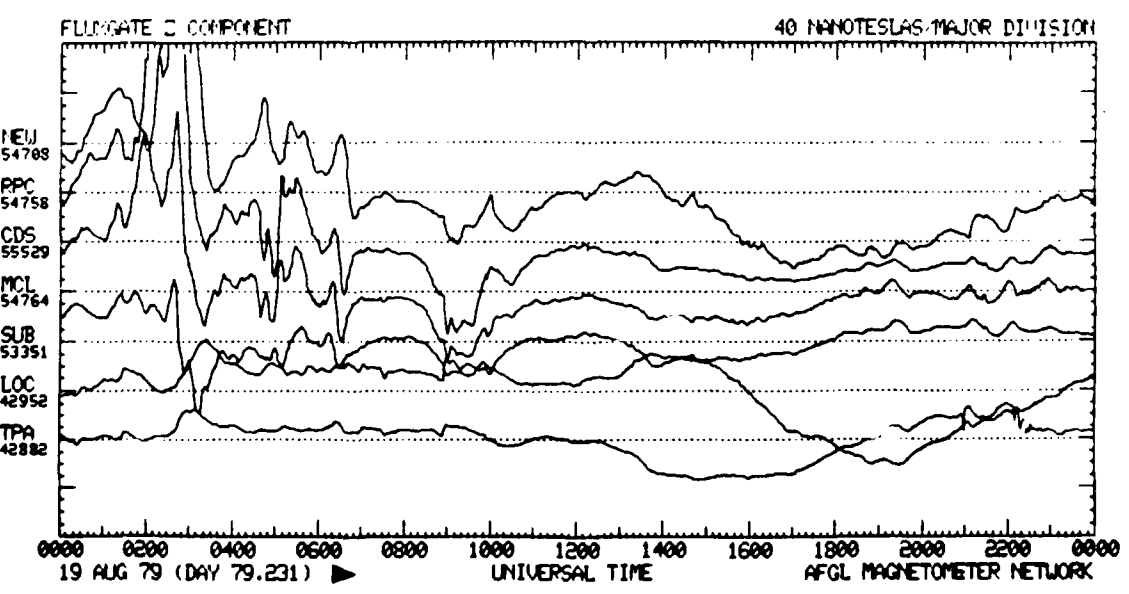
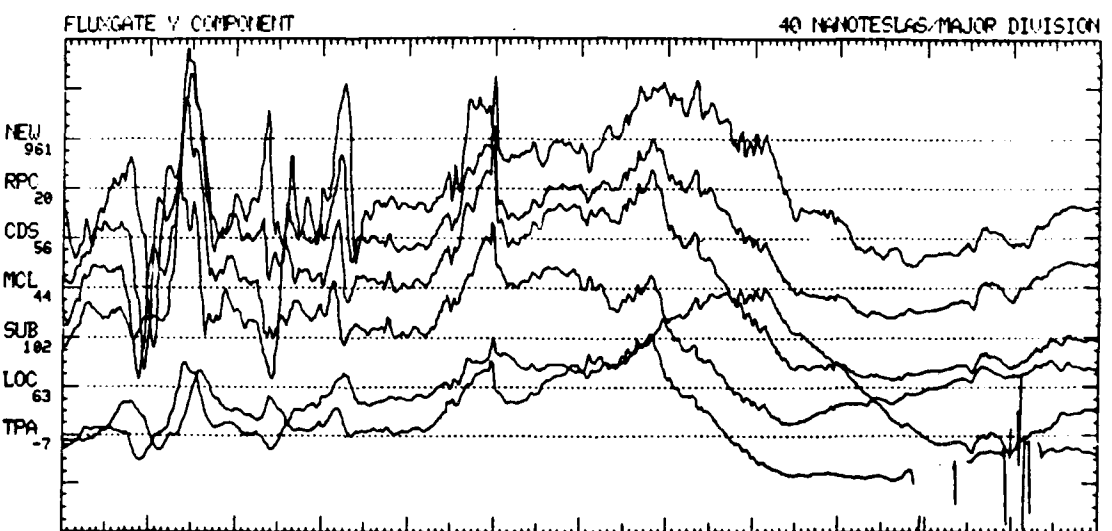
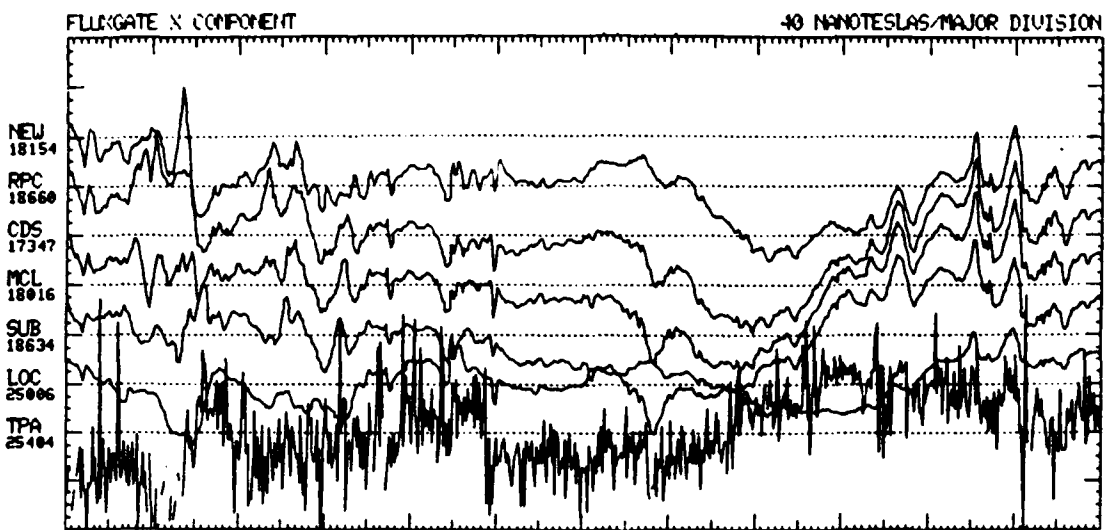
40 NANOTESLAS MAJOR DIVISION

NEU
54708
RPC
54727
CDS
55498
MCL
5473
SUB
53333
LOC
42944
TPA
42875



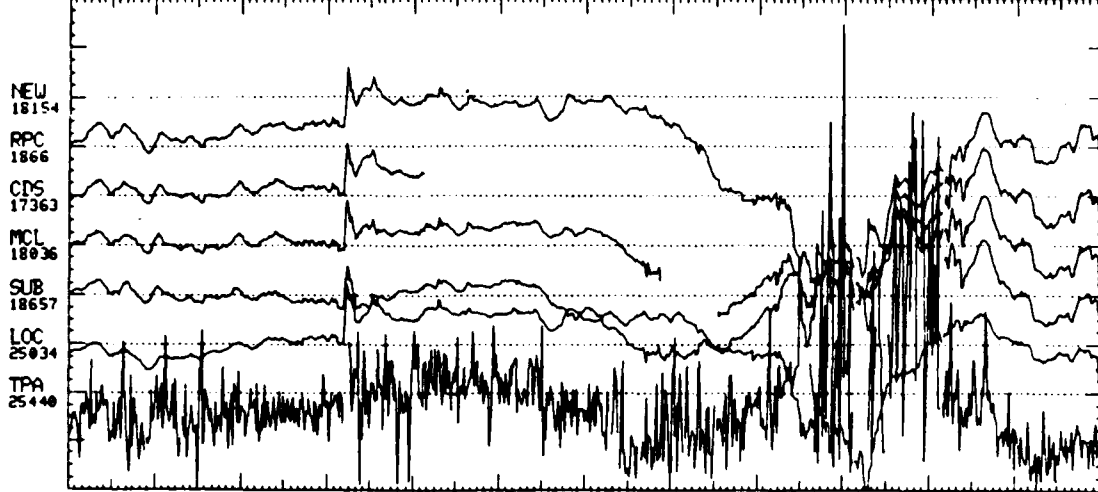
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
17 AUG 79 (DAY 79.229) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





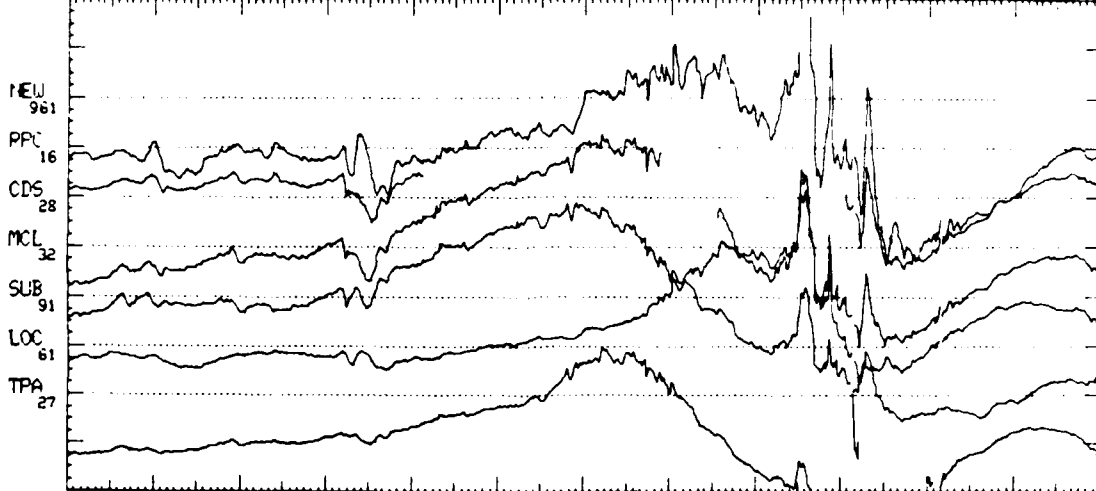
FLIGHTLINE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



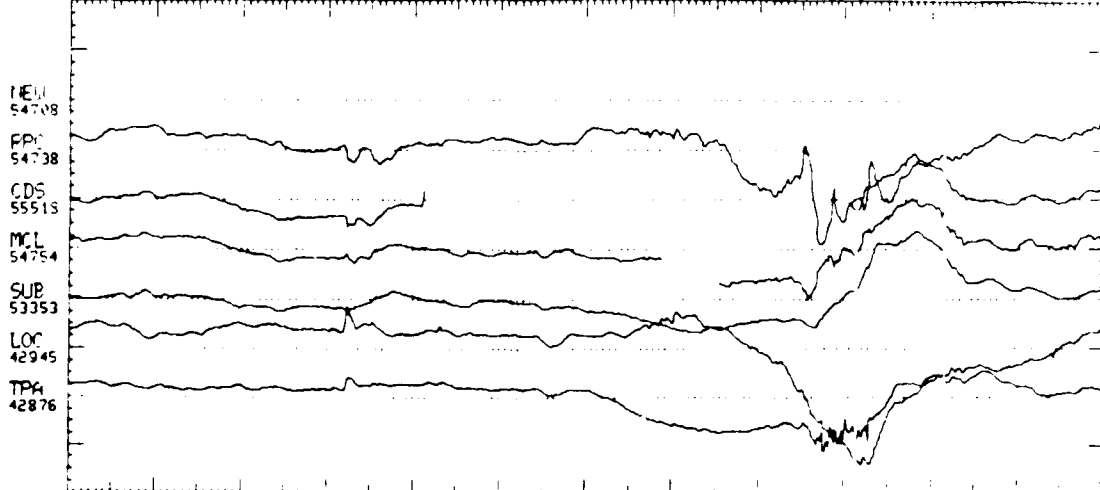
FLIGHTLINE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLIGHTLINE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

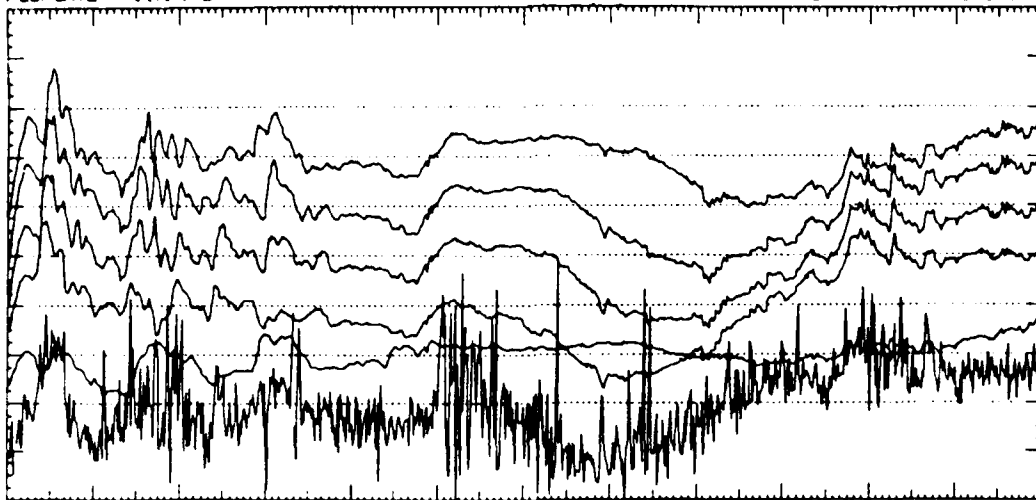


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 AUG 79 (DAY 79.232) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTLINE COMPONENT

40 NANOTESLAH MAJOR DIVISION

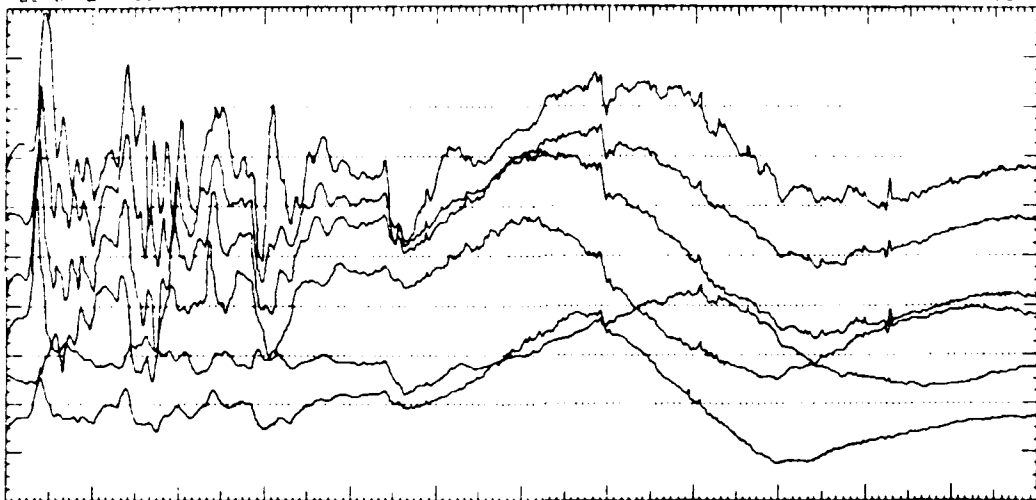
NEU
18154
RPC
1866
CDS
17341
MCL
18914
SUB
18634
LOC
25015
TPA
2540



FLIGHTLINE COMPONENT

40 NANOTESLAH MAJOR DIVISION

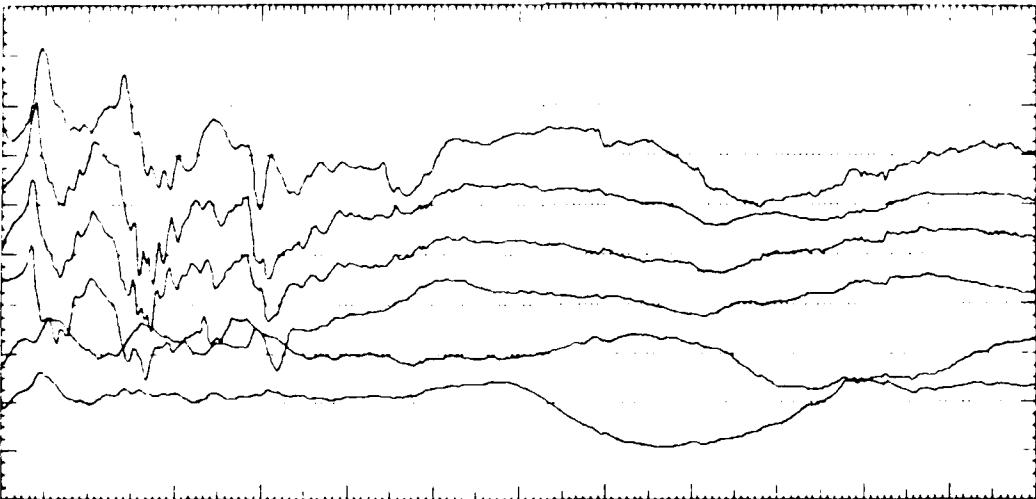
NEU
961
RPC
25
CDS
58
MCL
41
SUB
91
LOC
69
TPA
-2



FLIGHTLINE COMPONENT

40 NANOTESLAH MAJOR DIVISION

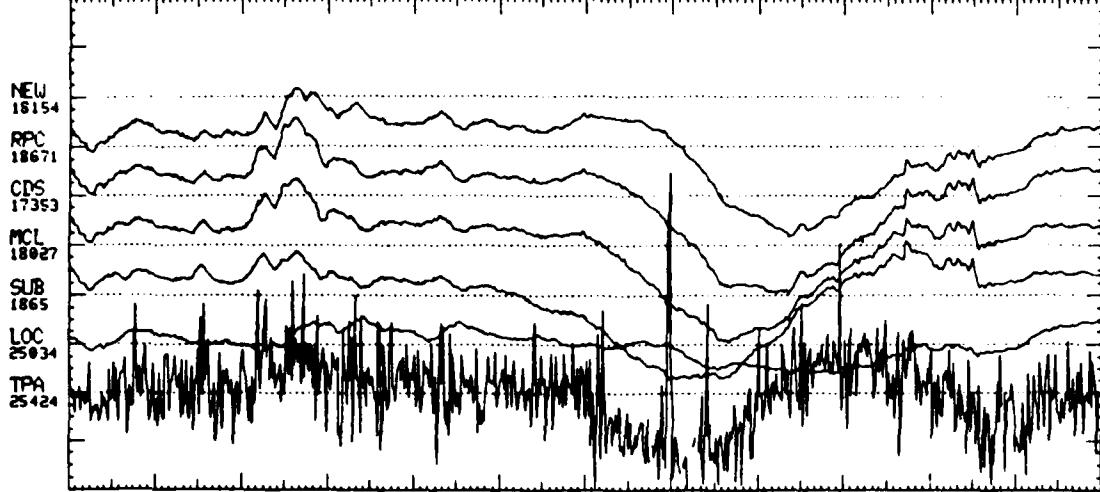
NEU
54703
RPC
54743
CDS
55505
MCL
54743
SUB
5333
LOC
42960
TPA
42875



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 AUG 79 (DAY 79.233) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

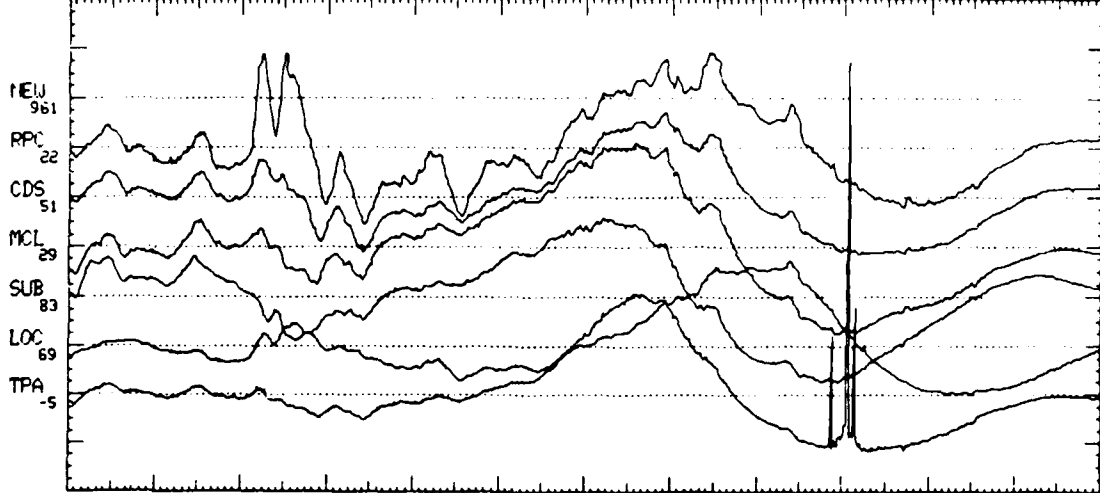
FLIGHTGATE X COMPONENT

40 NANOTESLAH MAJOR DIVISION



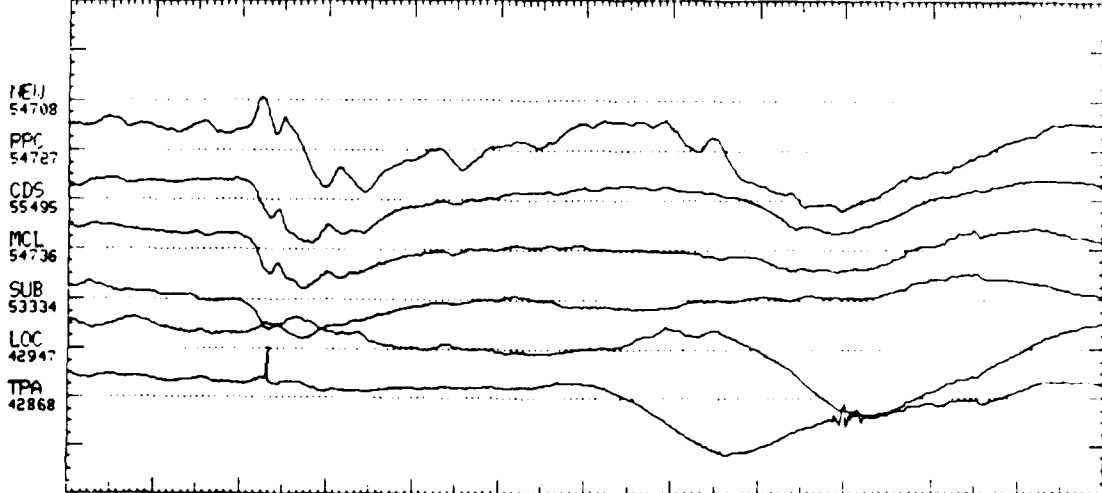
FLIGHTGATE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION

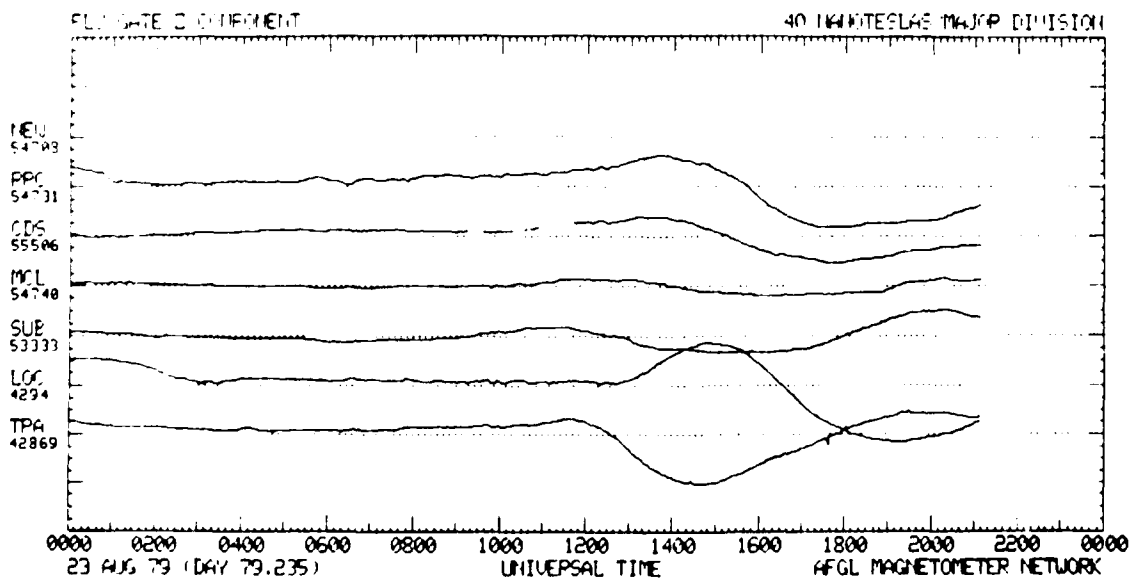
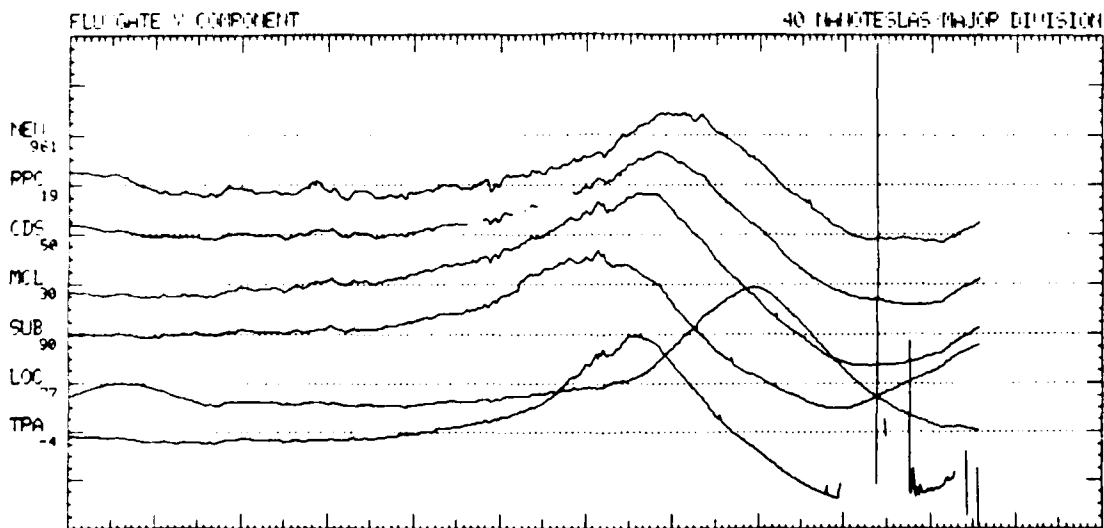
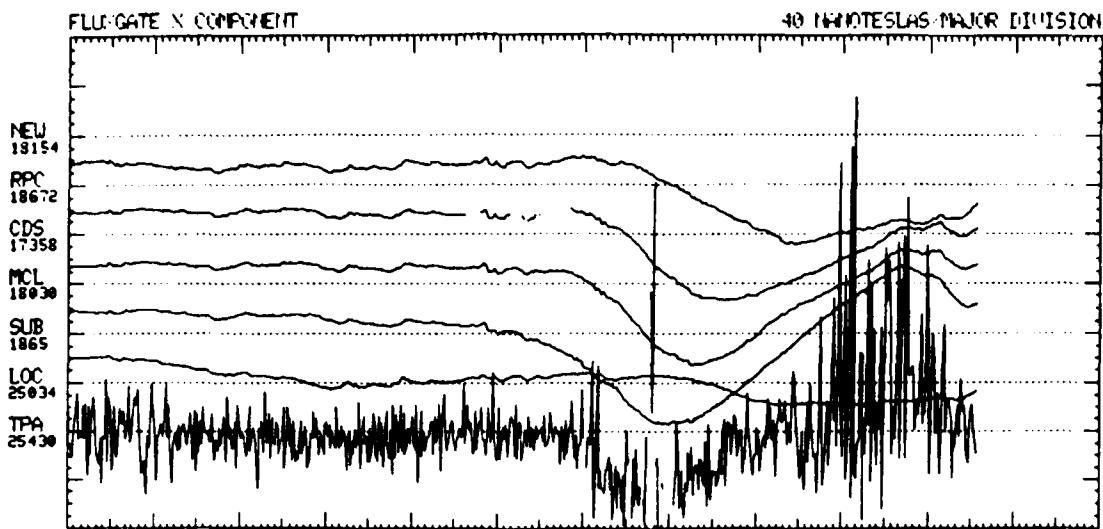


FLIGHTGATE Z COMPONENT

40 NANOTESLAH MAJOR DIVISION



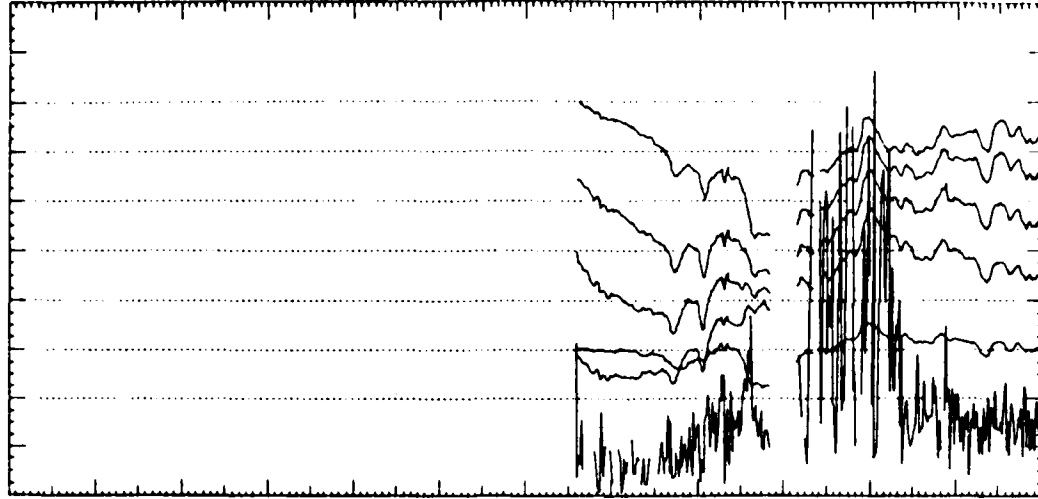
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 AUG 79 (DAY 79.234) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAH MAJOR DIVISION

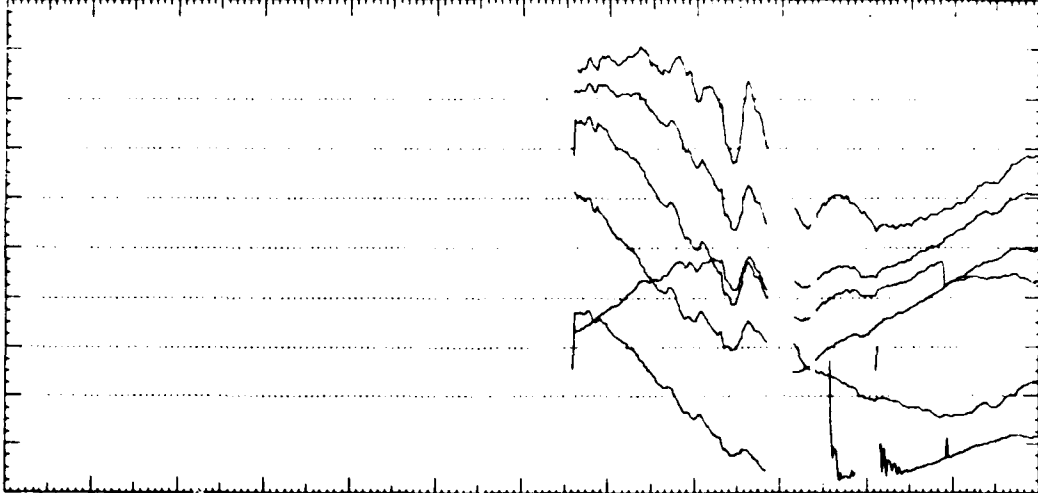
NEU
18154
RPC
18664
CDS
17344
MCL
18924
SUB
18657
LOC
25044
TPA
25449



FLUXGATE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION

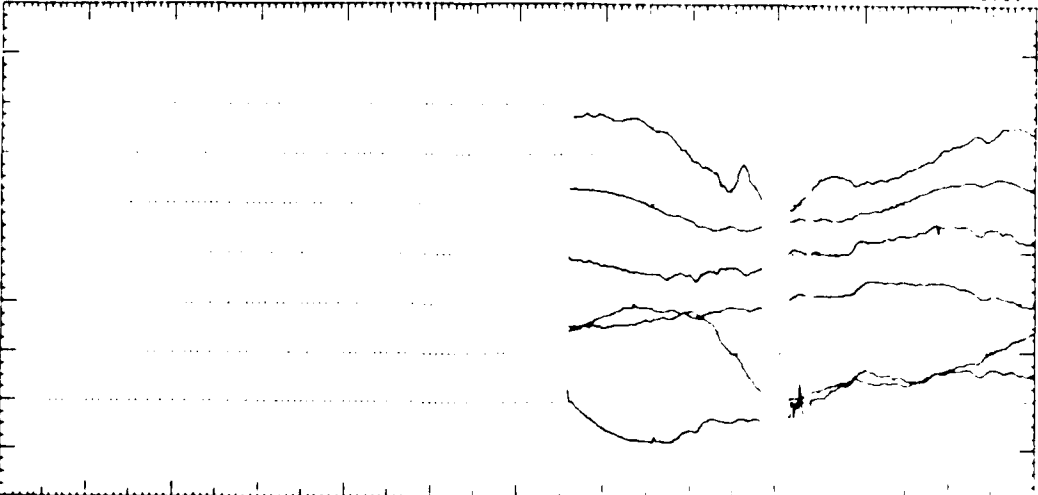
NEU
961
RPC
14
CDS
34
MCL
SUB
66
LOC
68
TPA
11



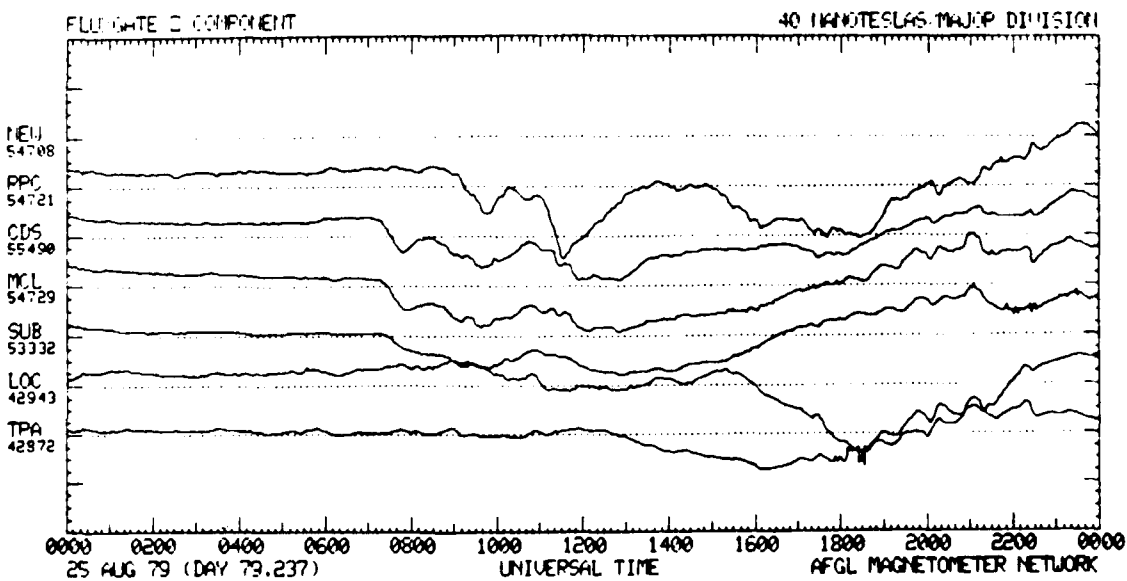
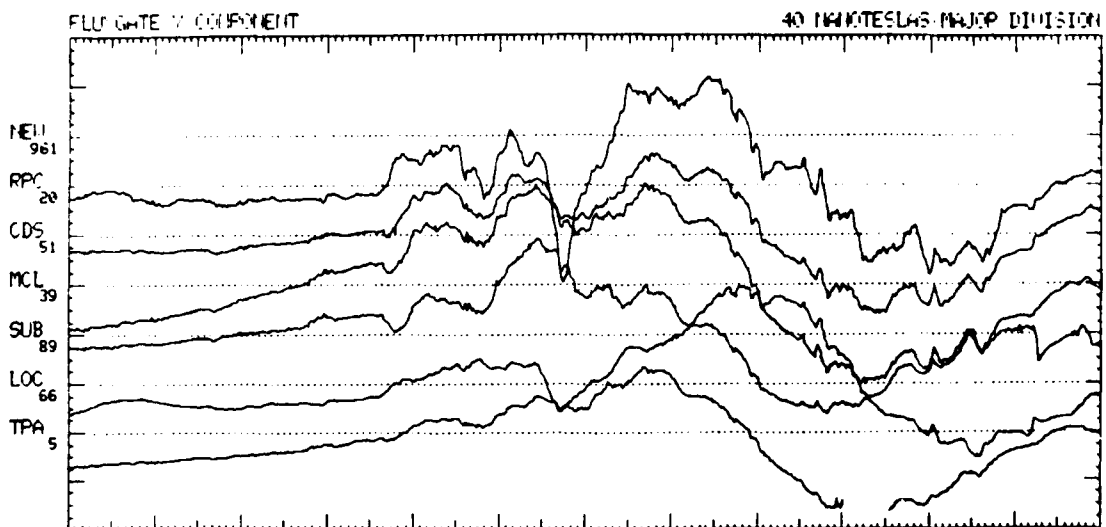
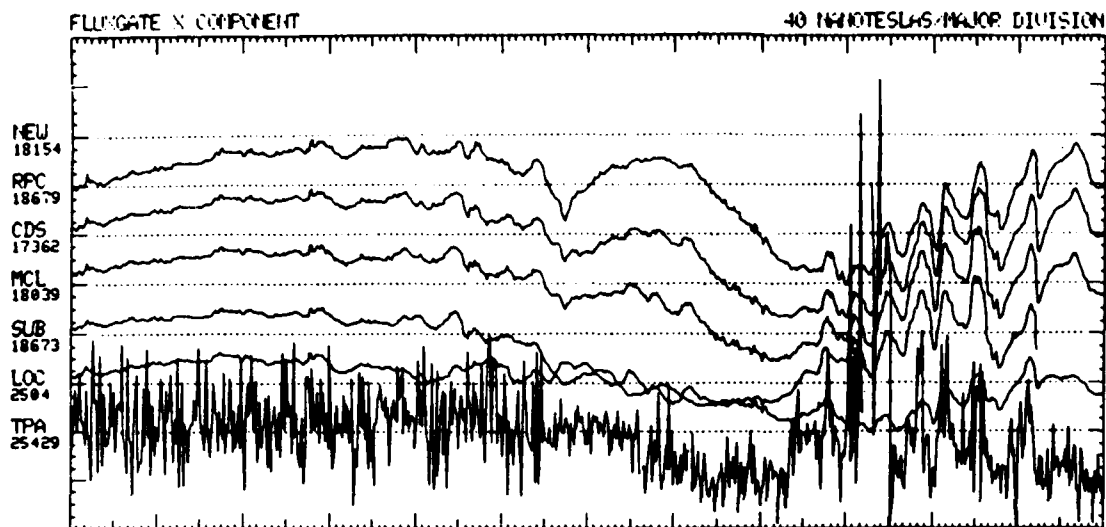
FLUXGATE Z COMPONENT

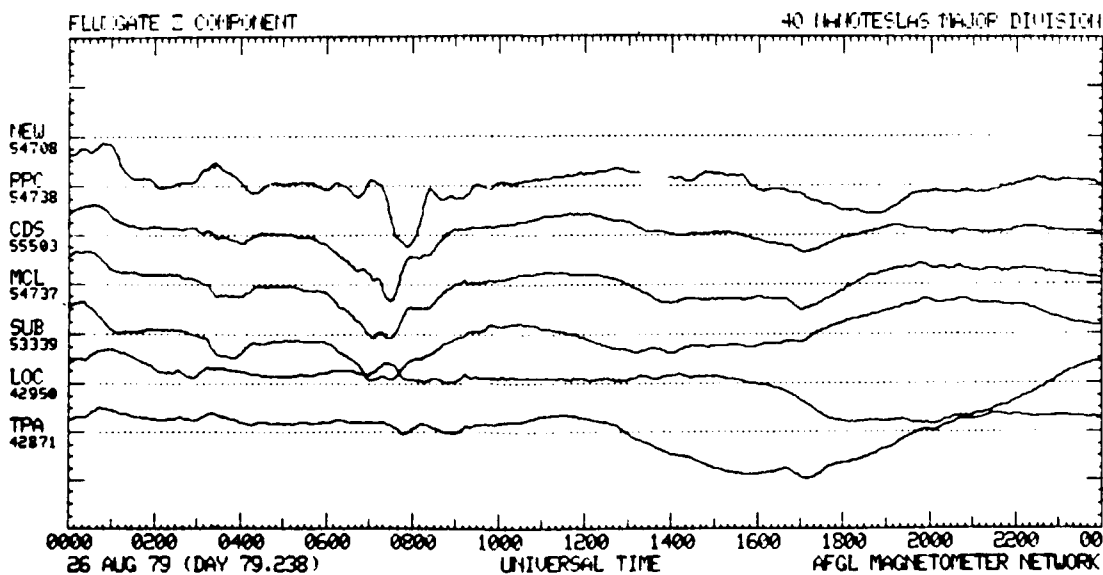
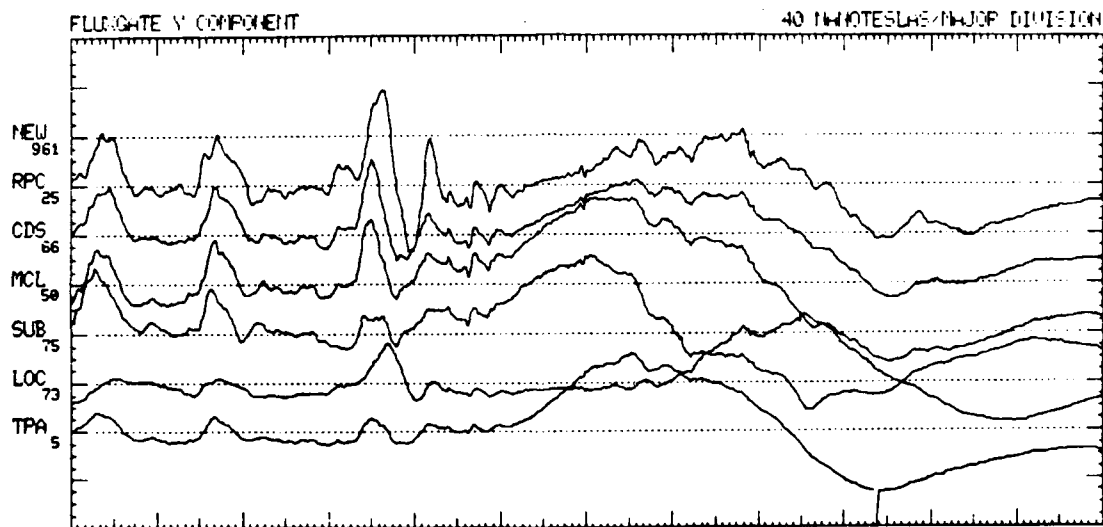
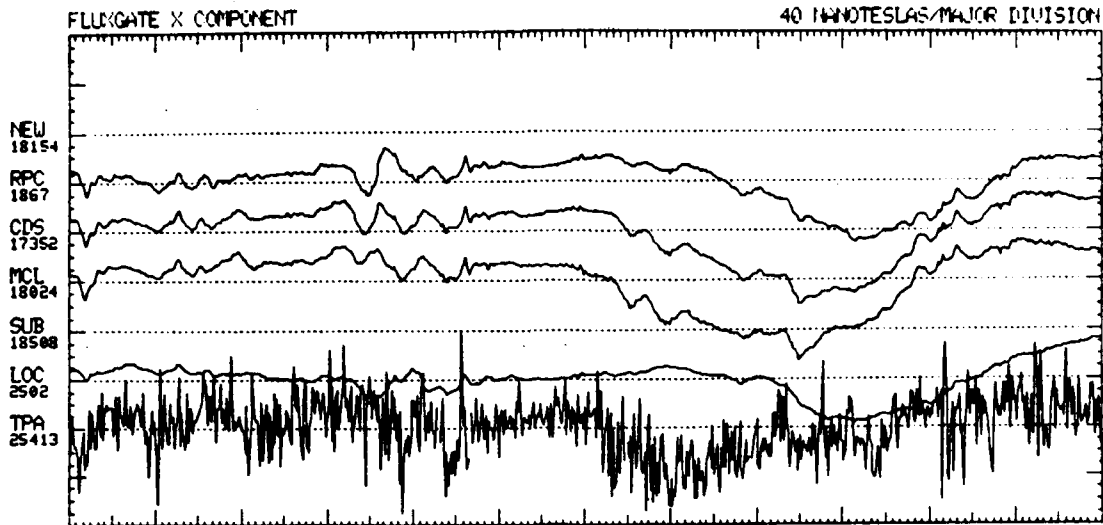
40 NANOTESLAH MAJOR DIVISION

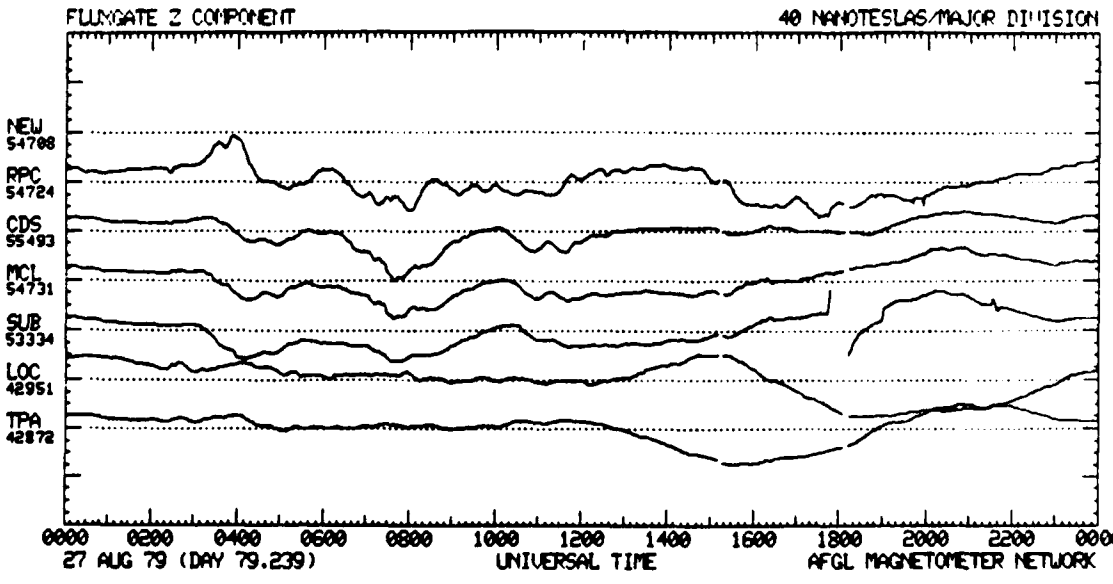
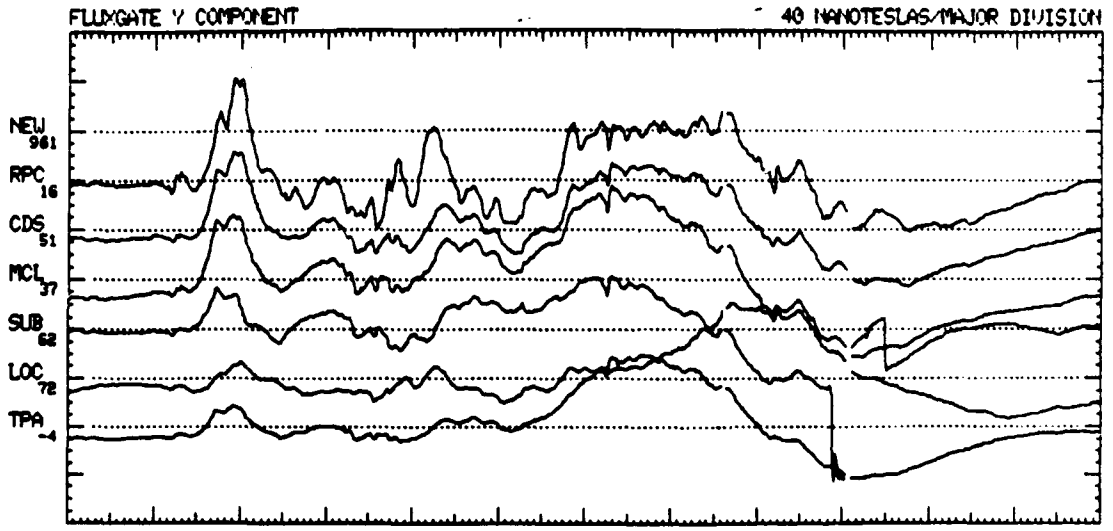
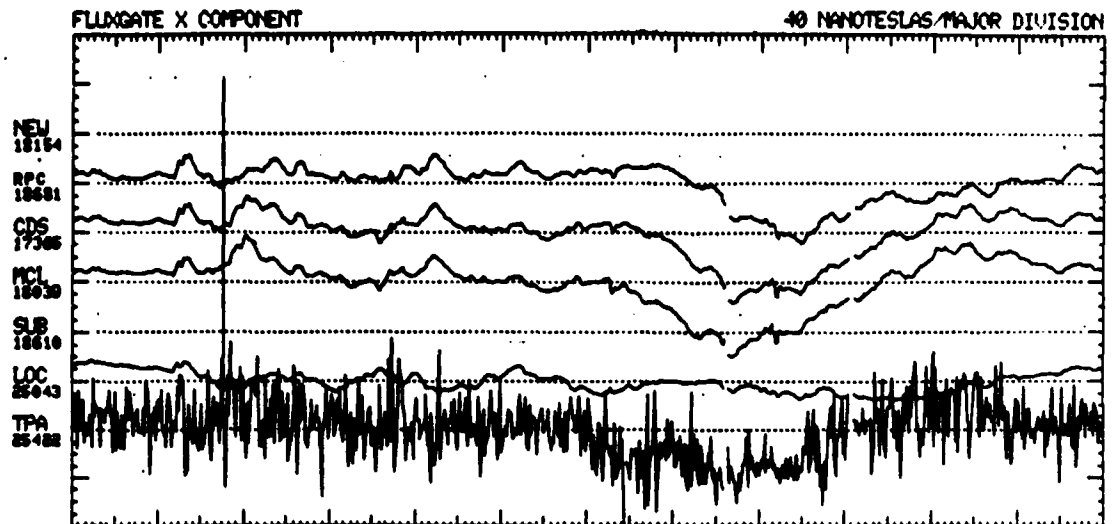
NEU
54708
RPC
54719
CDS
55496
MCL
54739
SUB
53343
LOC
42932
TPA
42855

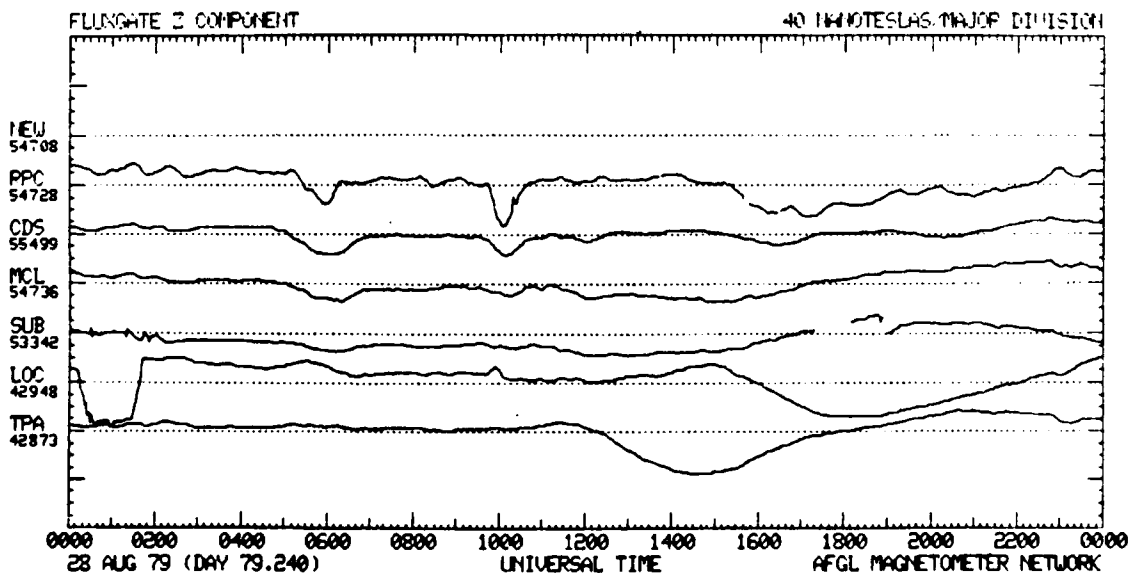
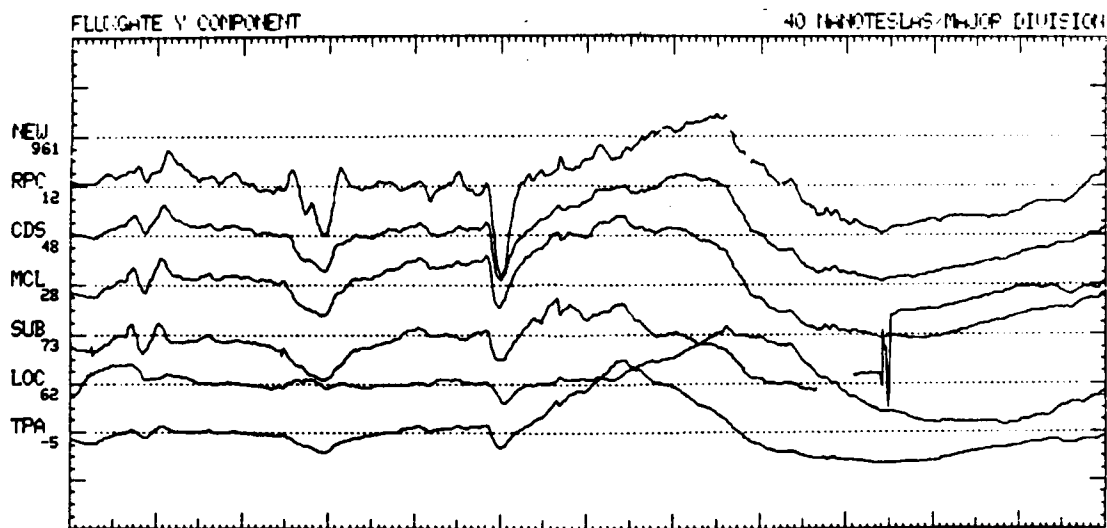
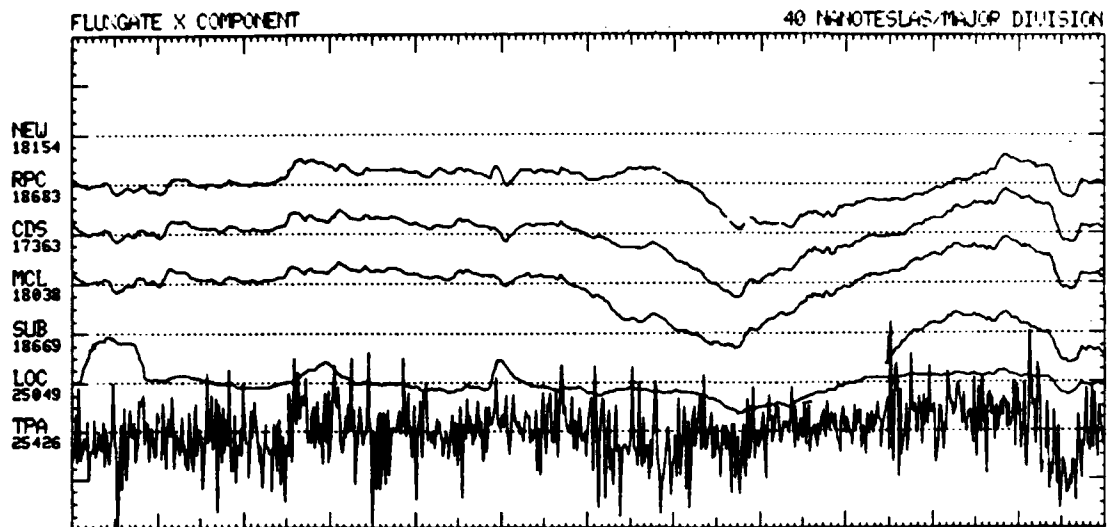


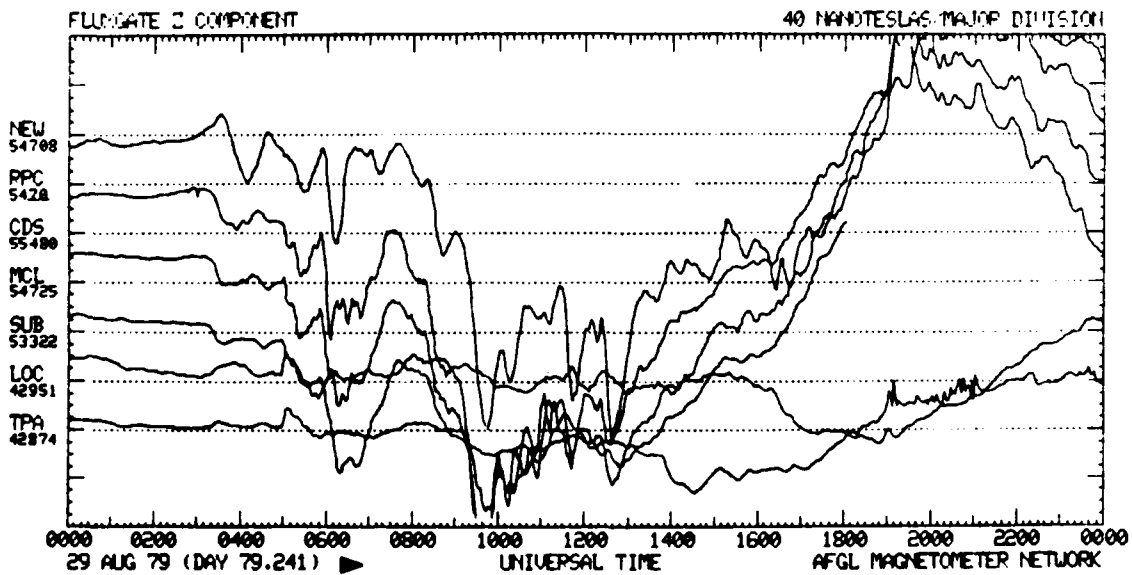
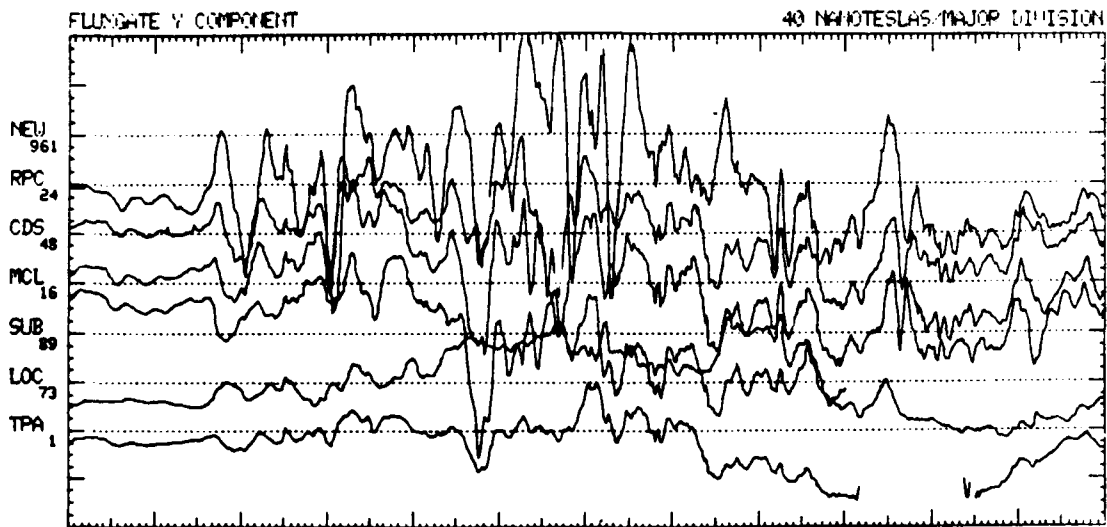
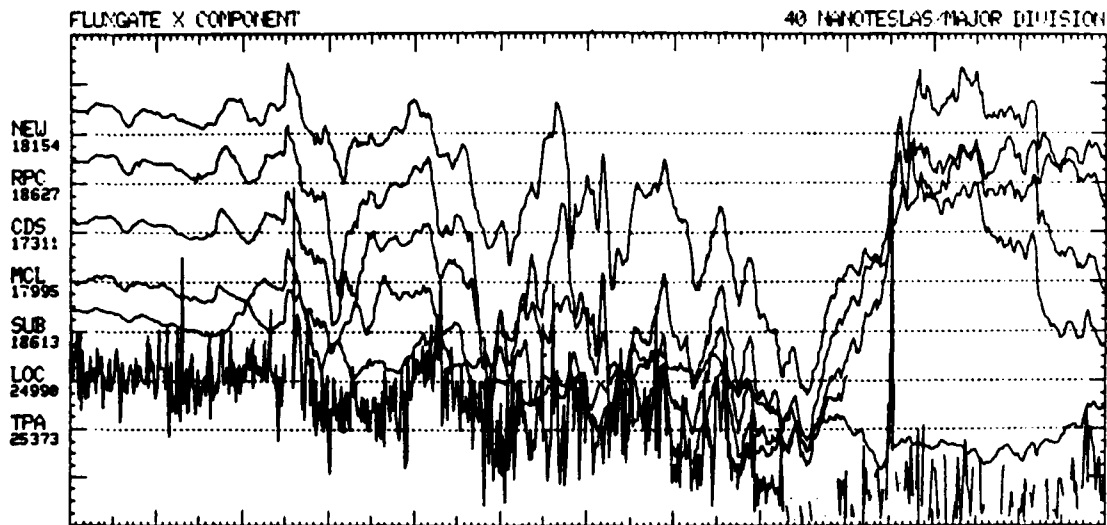
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
24 AUG 79 (DAY 79.236) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

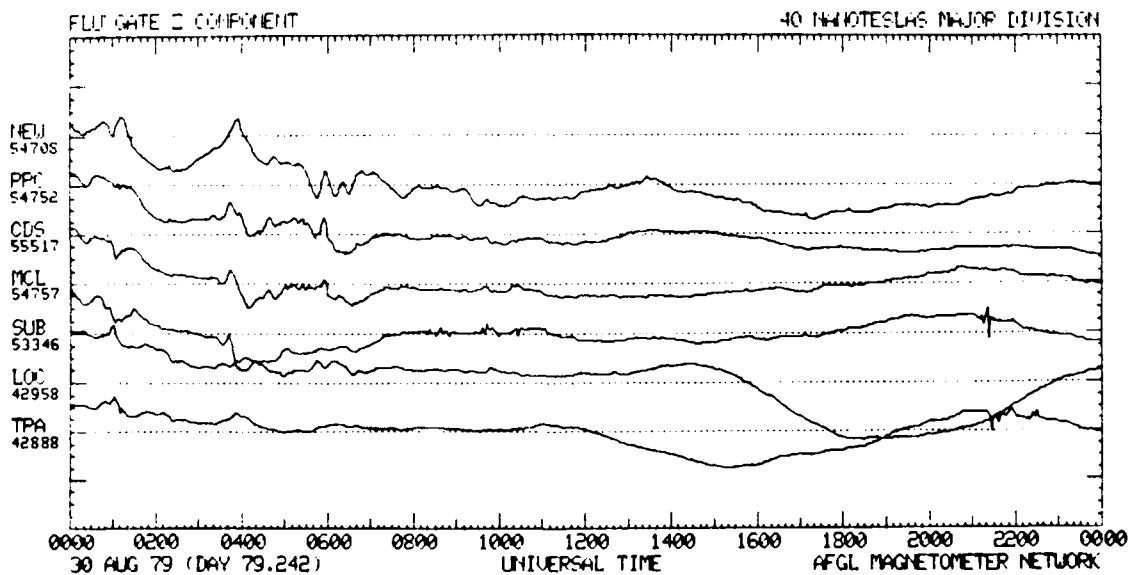
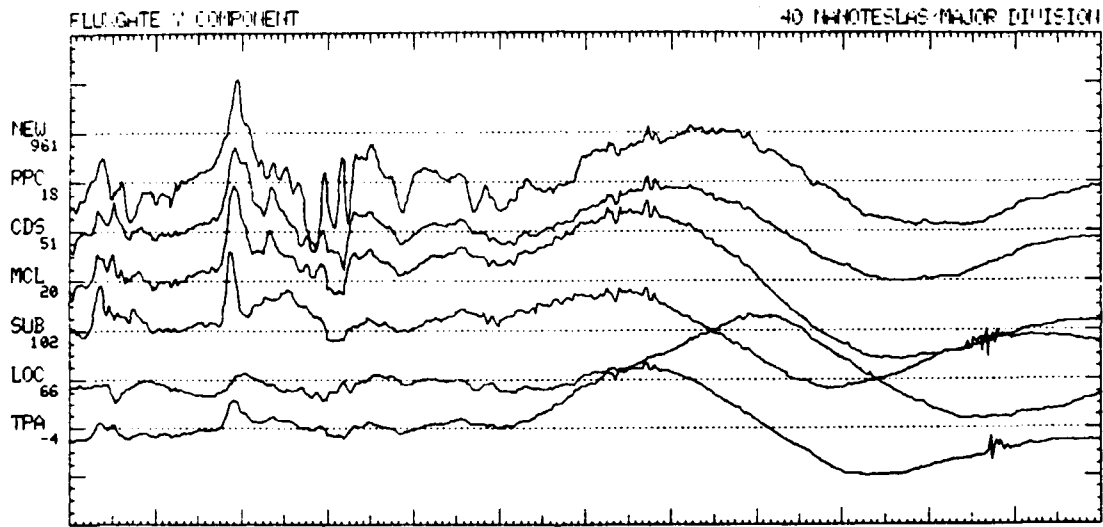
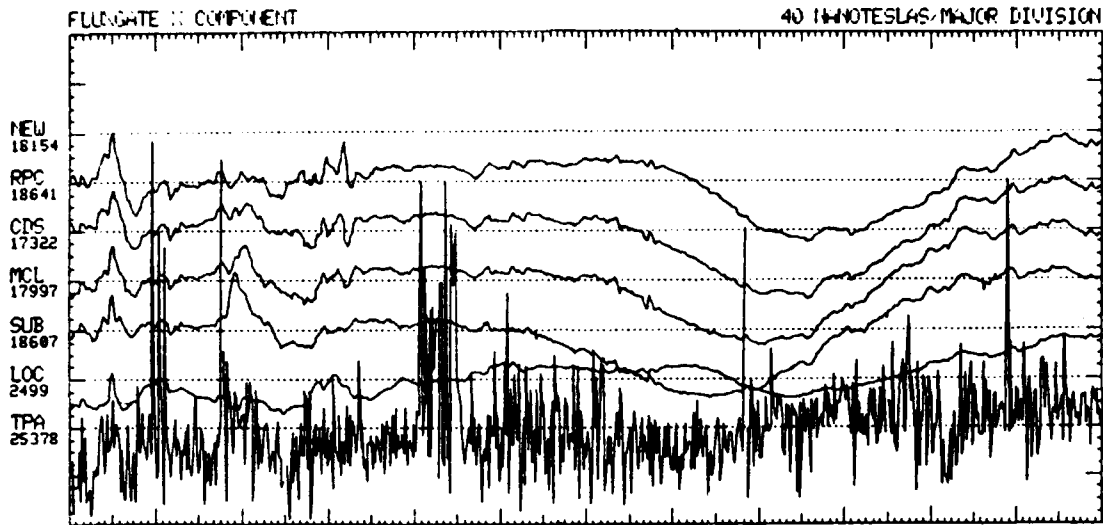


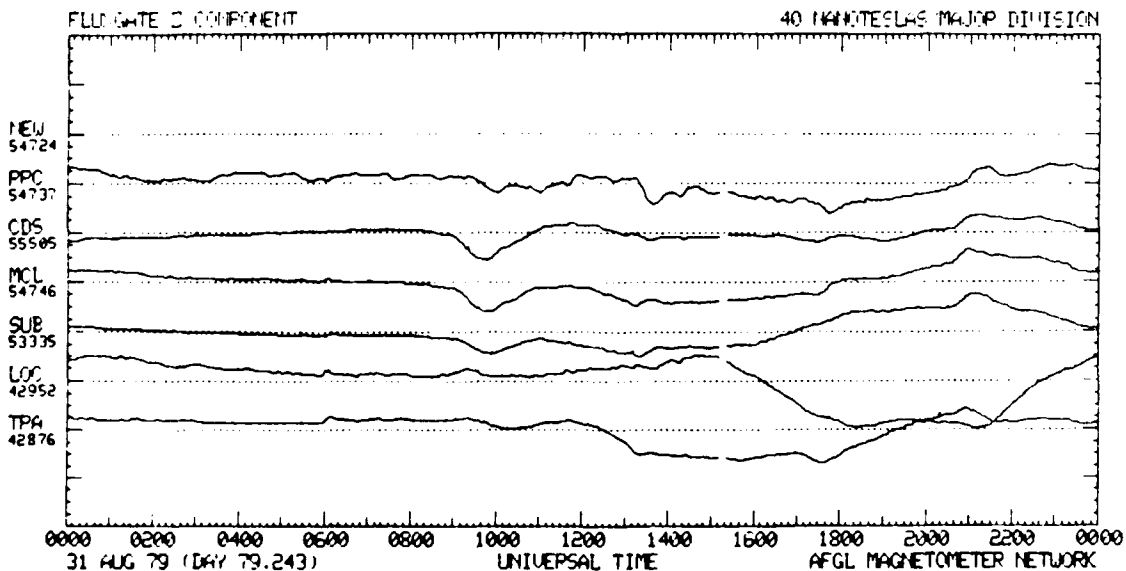
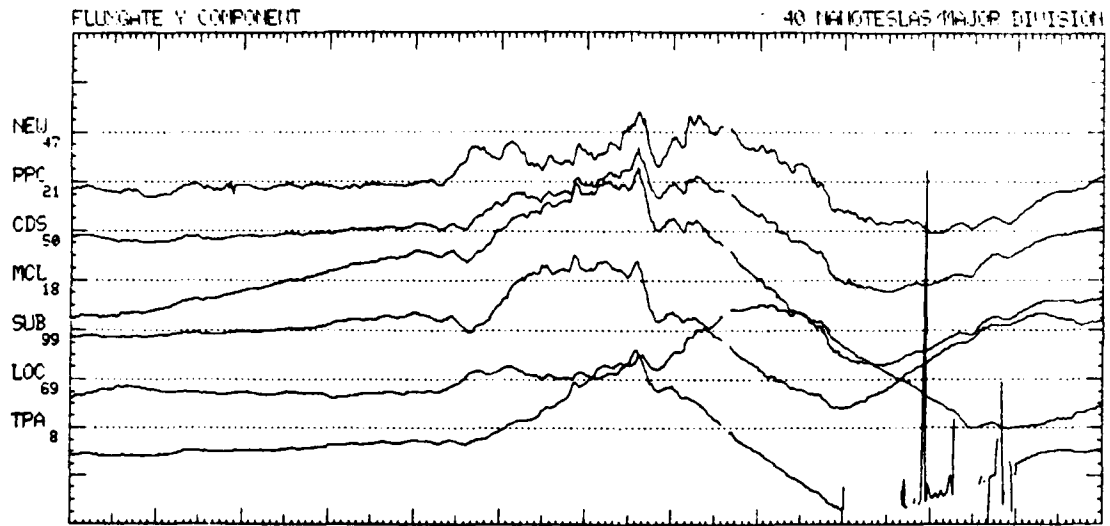
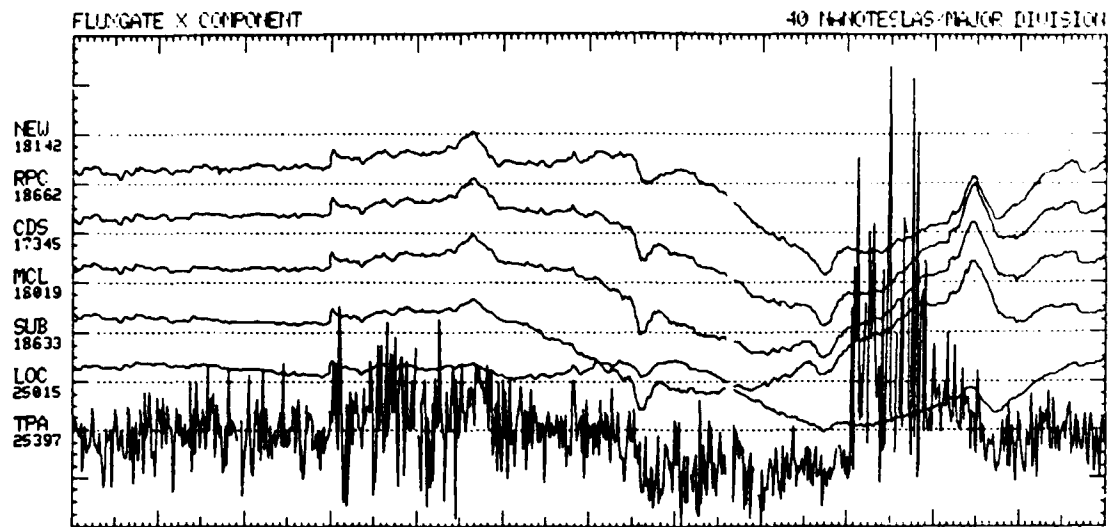


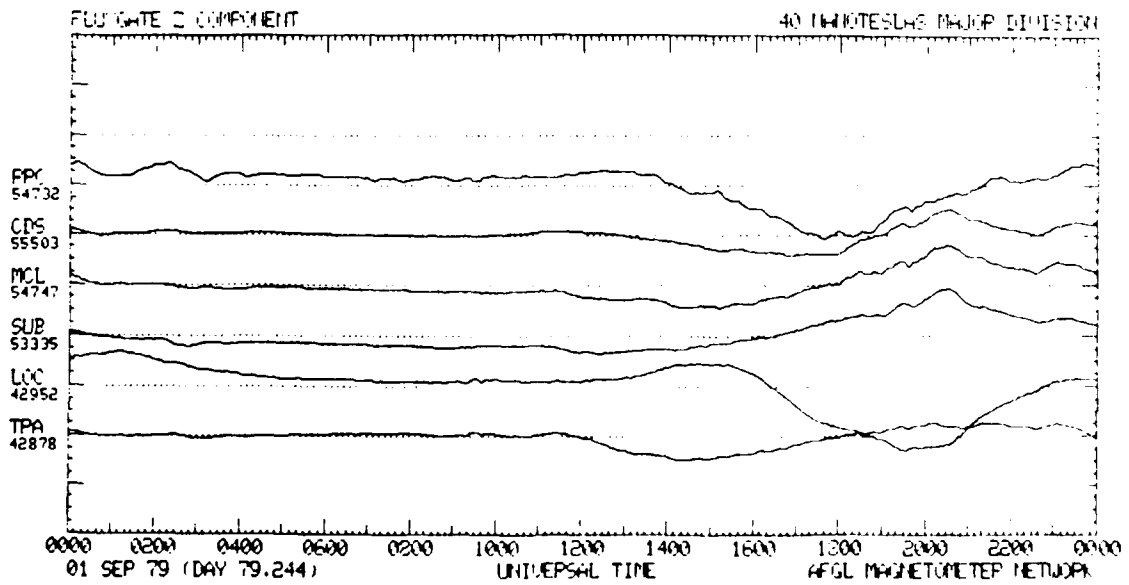
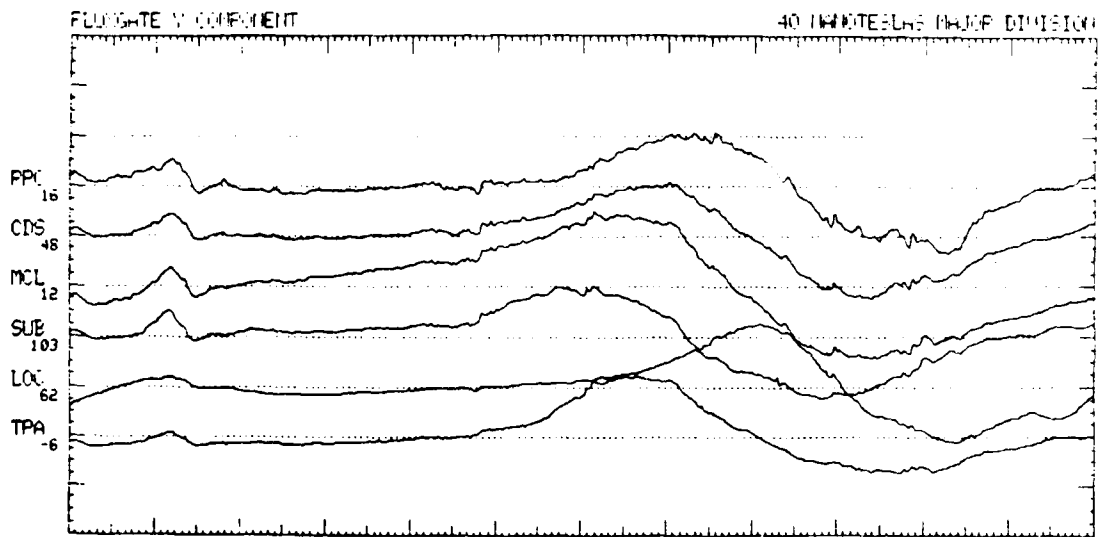
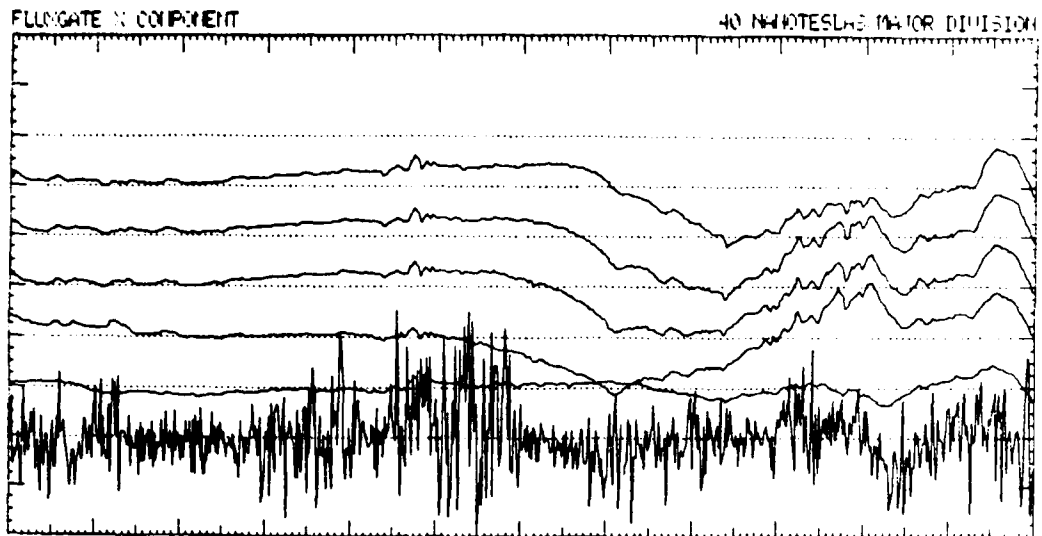


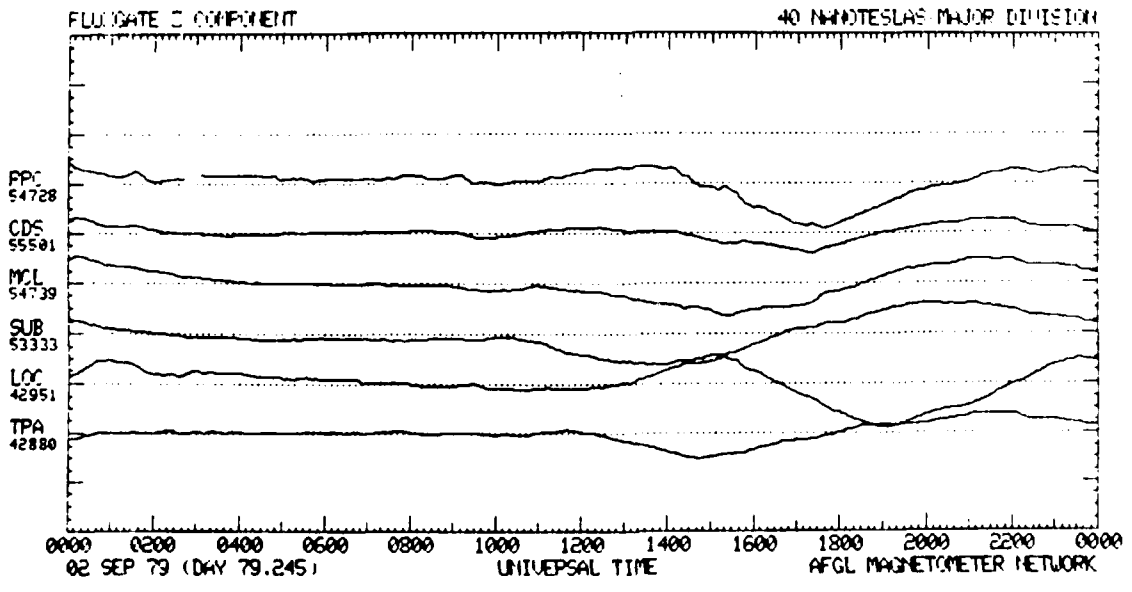
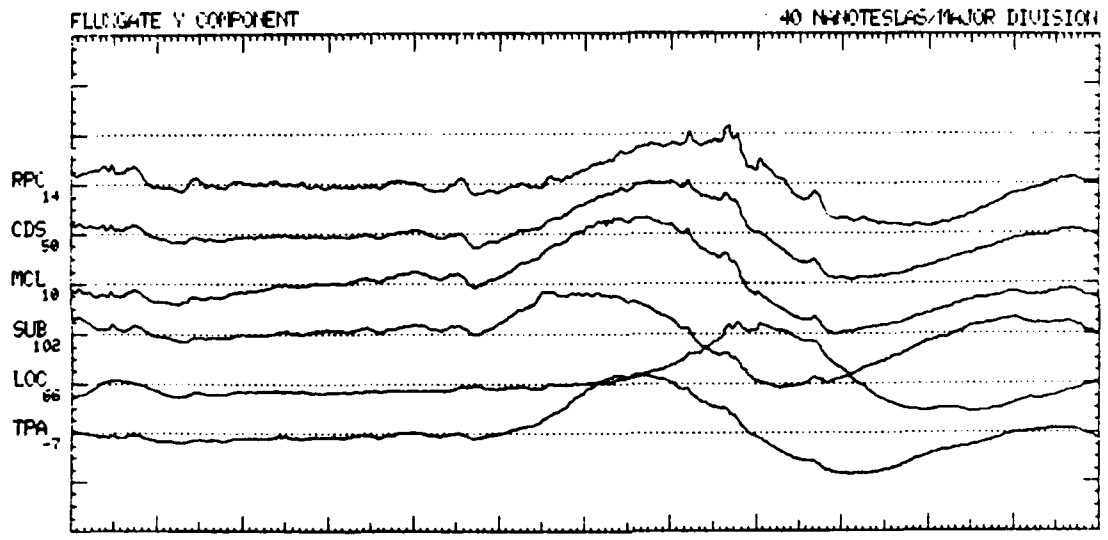
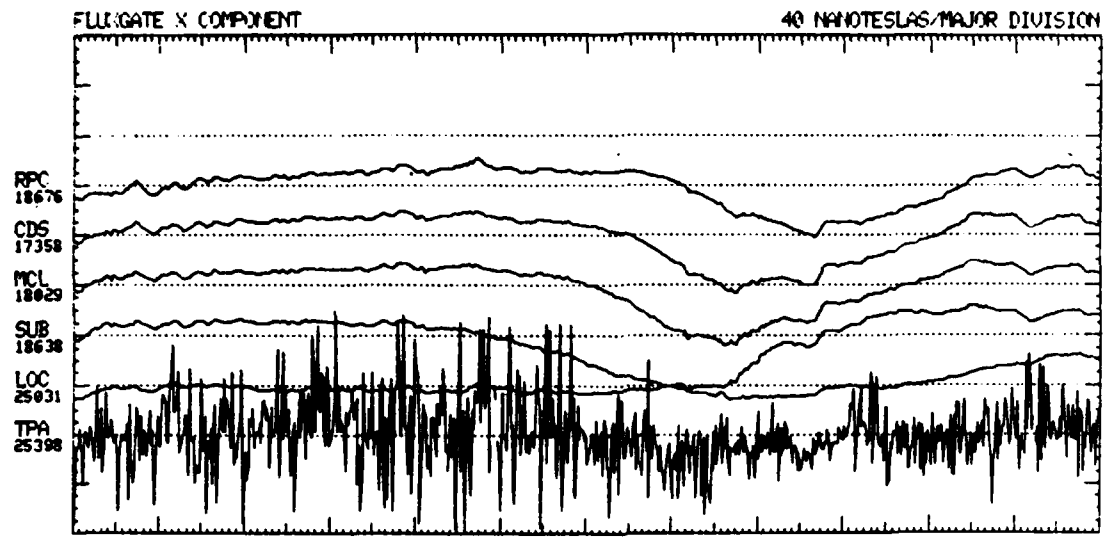


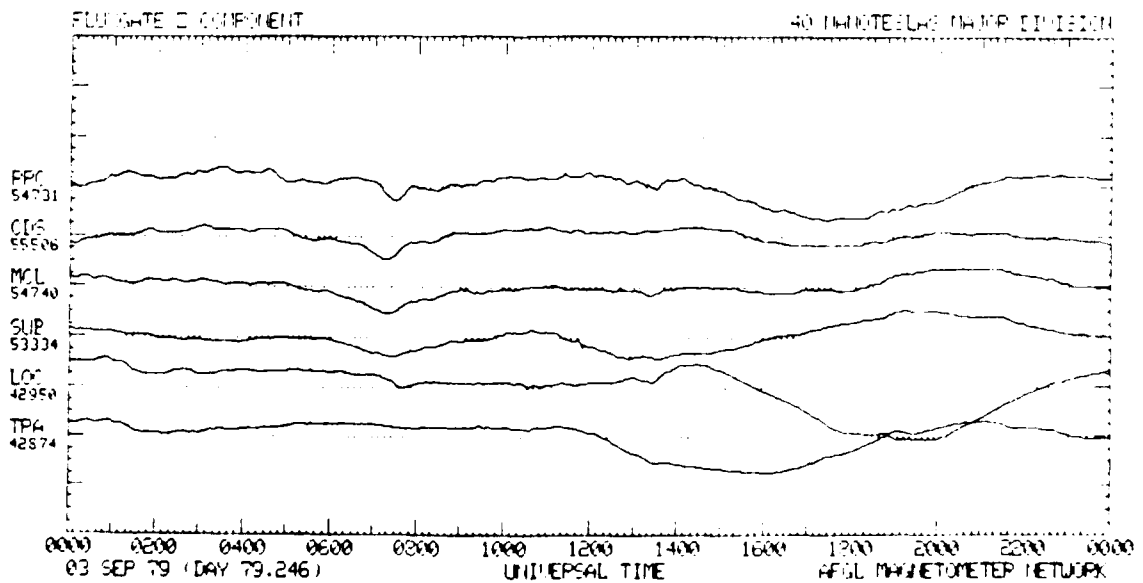
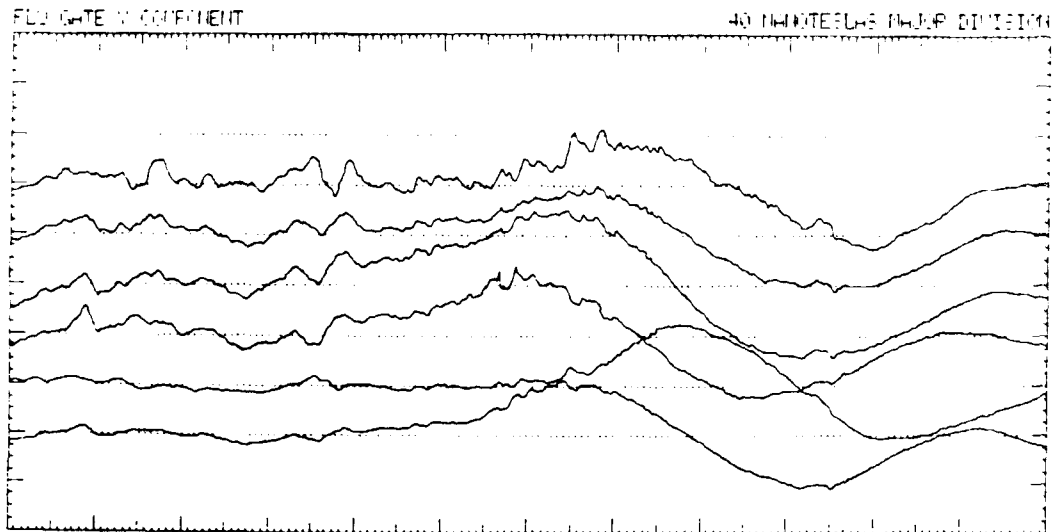
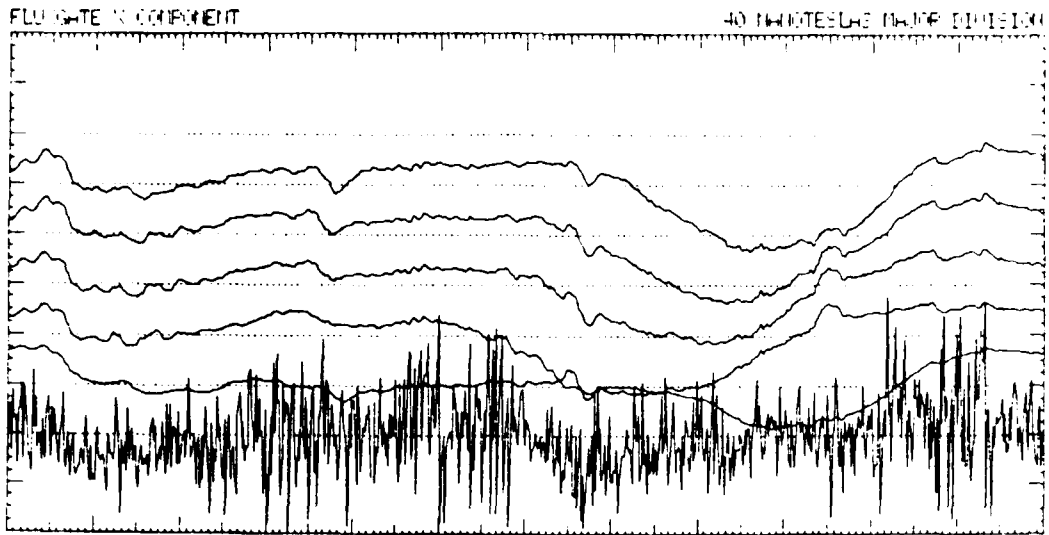






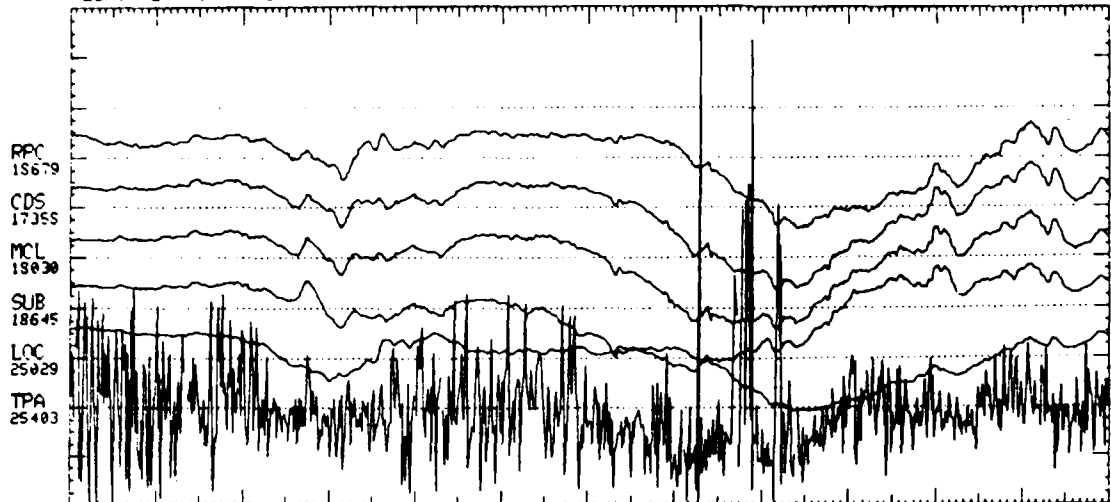






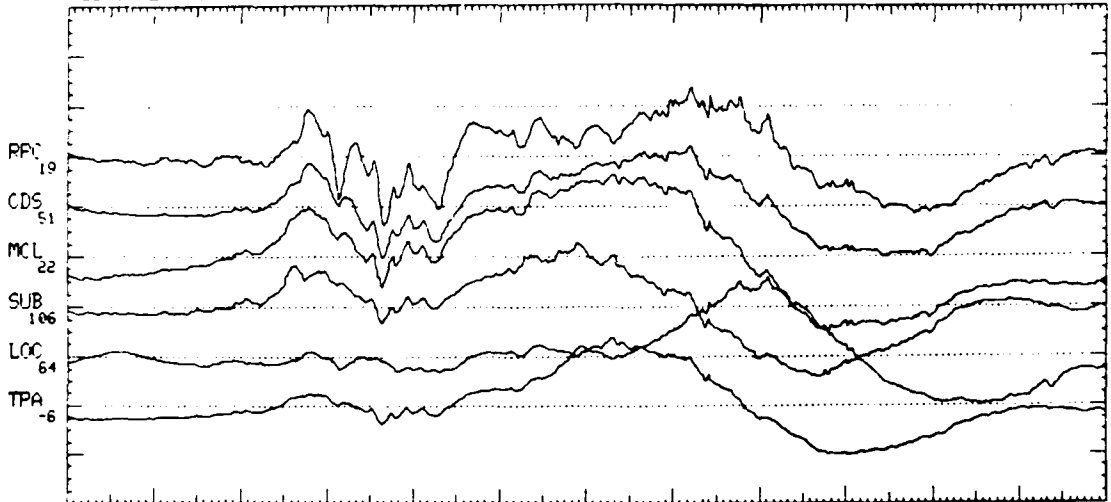
FLUX GATE X COMPONENT

40 THIMOTESLAS MAJOR DIVISION



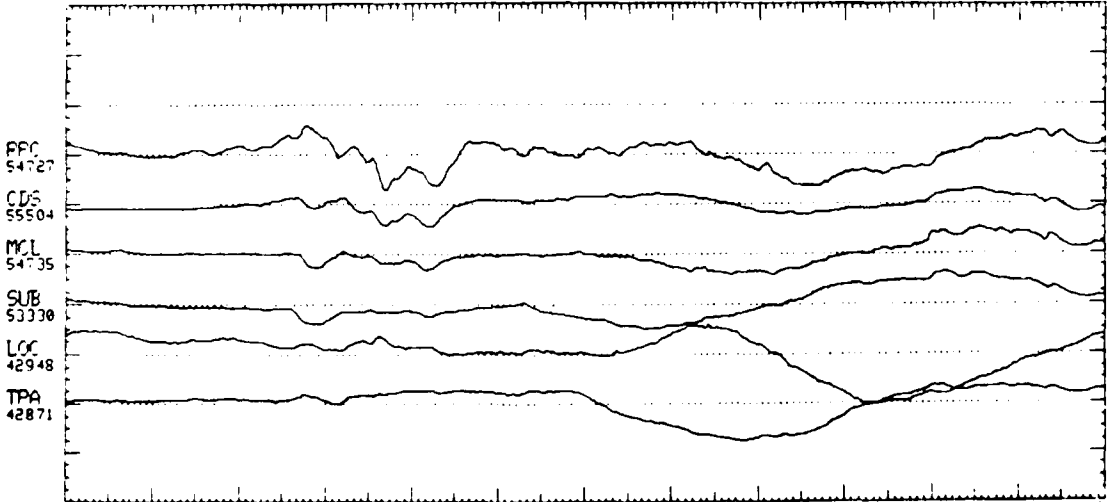
FLUX GATE Y COMPONENT

40 THIMOTESLAS MAJOR DIVISION

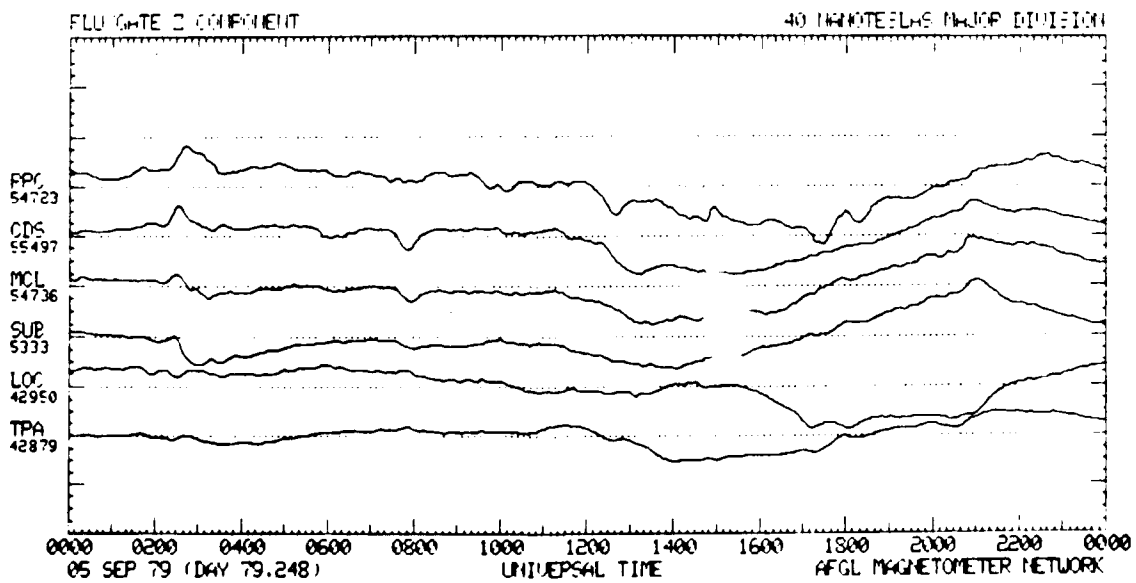
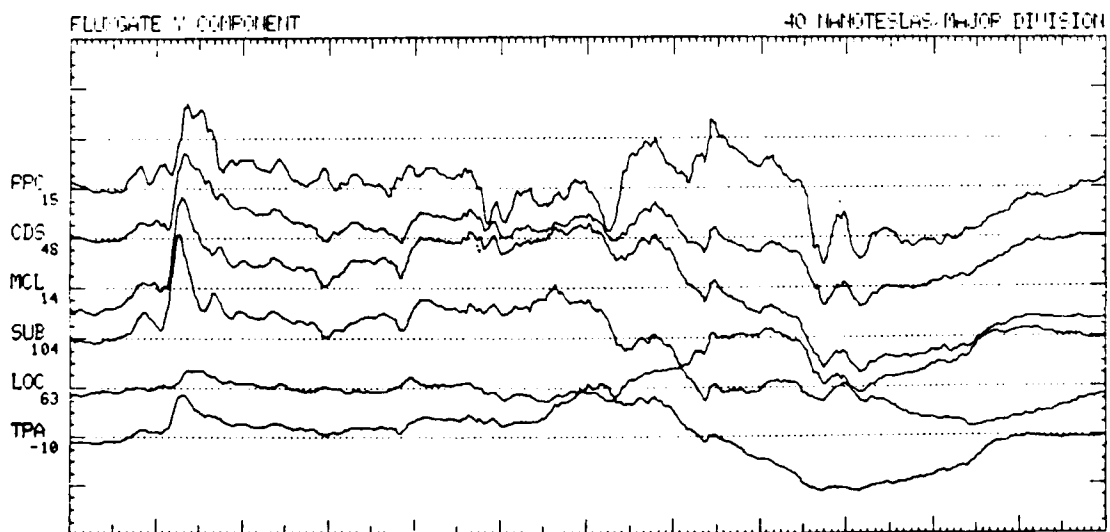
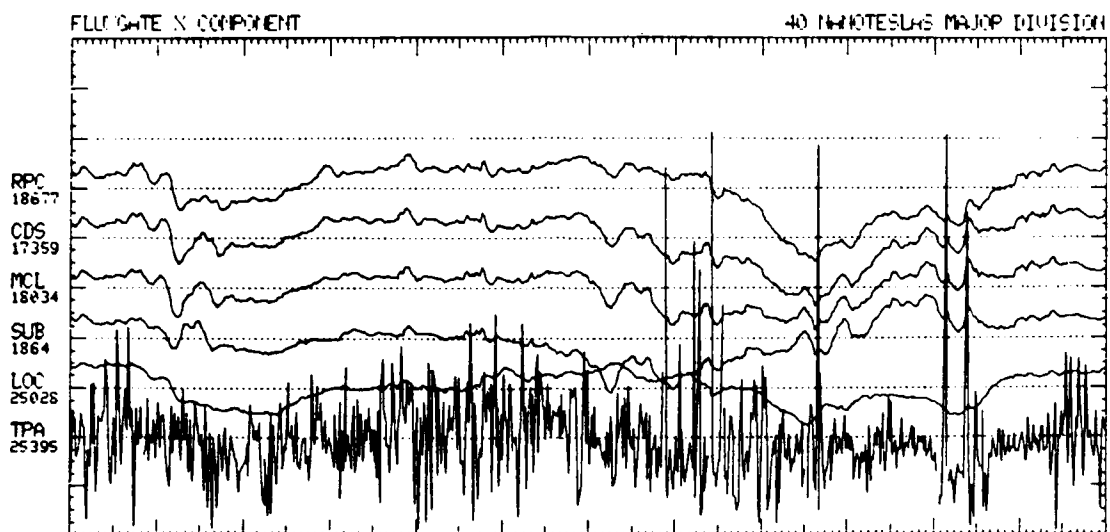


FLUX GATE Z COMPONENT

40 THIMOTESLAS MAJOR DIVISION



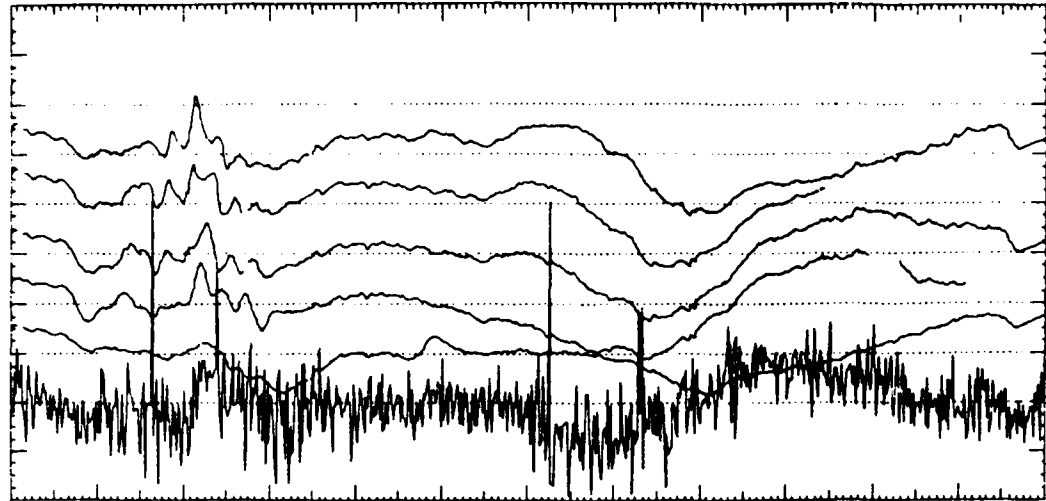
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 SEP 79 (DAY 79.247) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLIGHTLINE COMPONENT

40 INWITESLAS MAJOR DIVISION

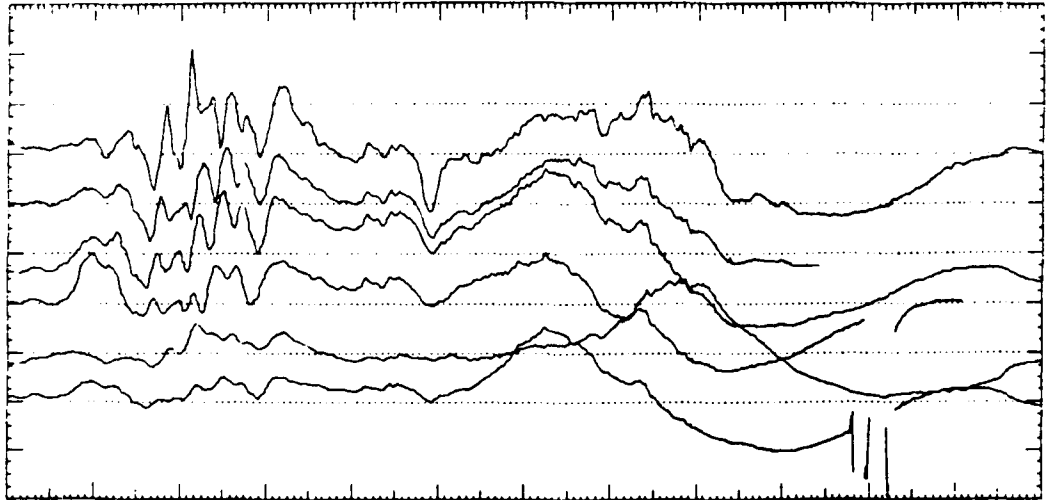
NEU
18162
RFC
18672
CDS
17352
MCL
18032
SUB
18644
LOC
25022
TPA
25393



FLIGHTLINE COMPONENT

40 INWITESLAS MAJOR DIVISION

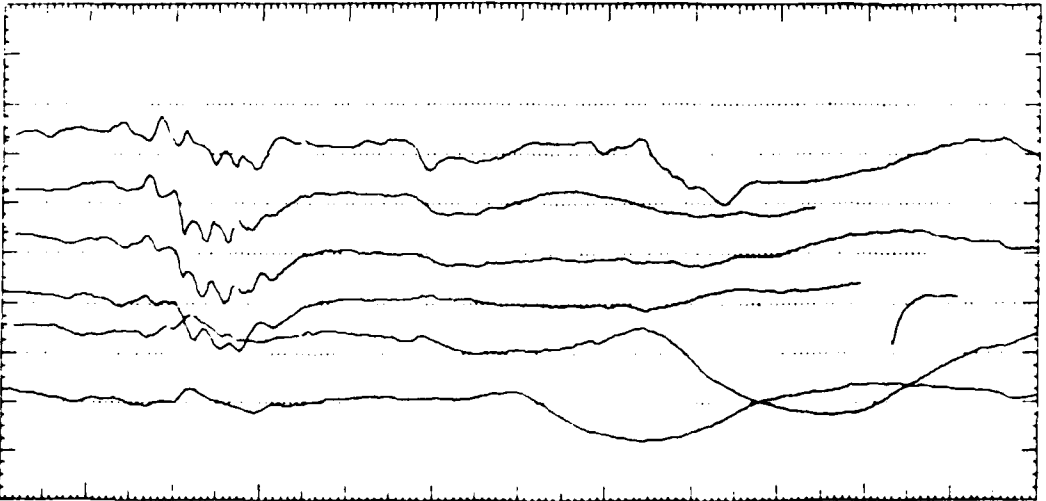
NEU
45
RFC
12
CDS
51
MCL
5
SUB
104
LOC
64
TPA
-14



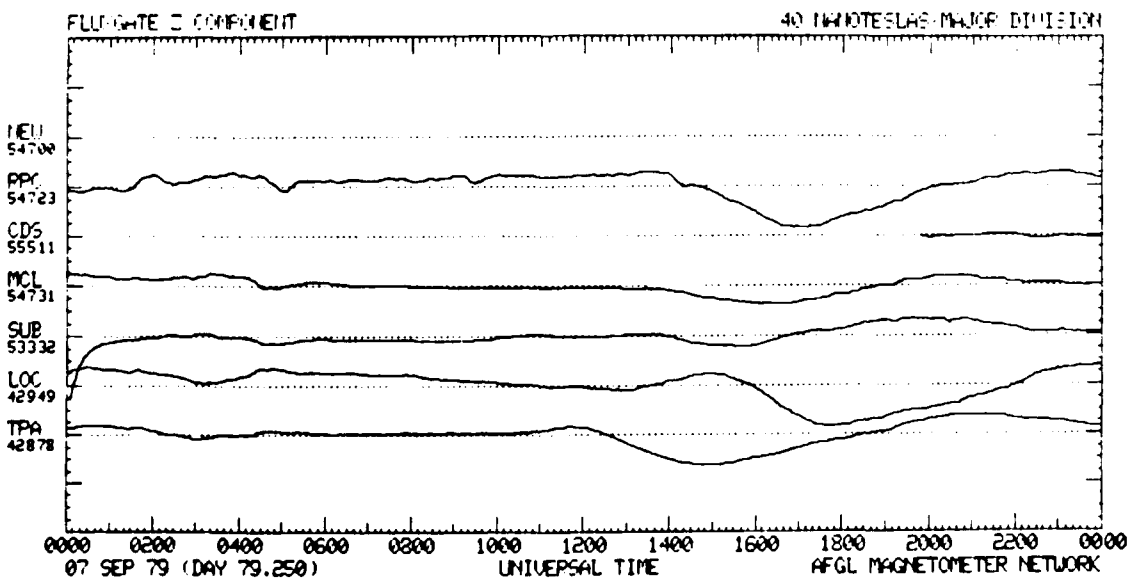
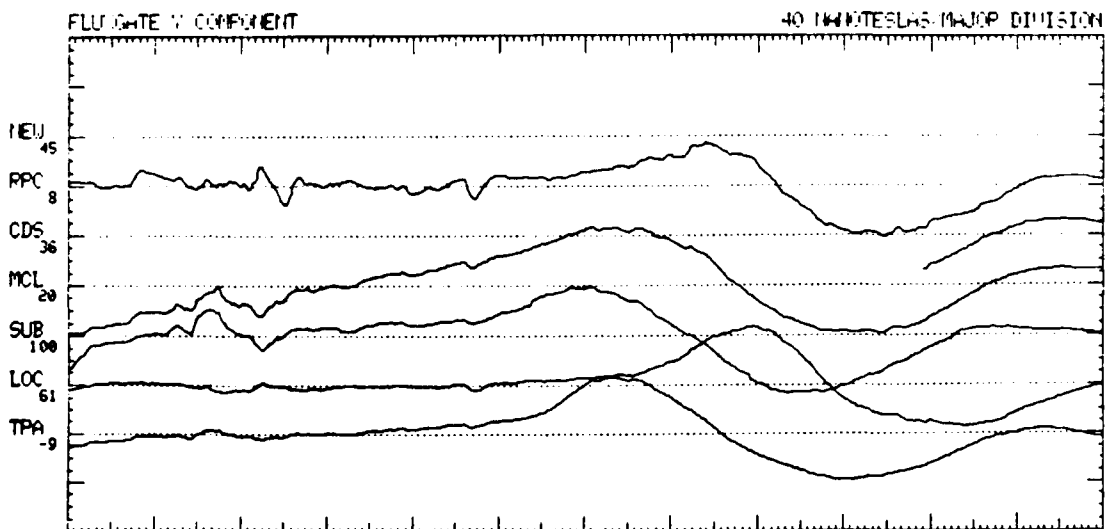
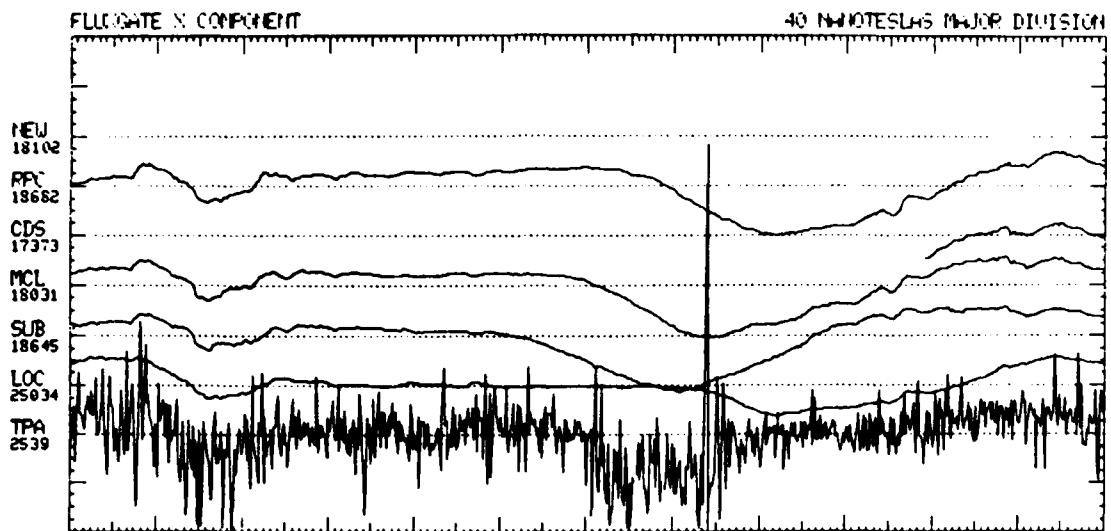
FLIGHTLINE COMPONENT

40 INWITESLAS MAJOR DIVISION

NEU
54700
RFC
54722
CDS
55498
MCL
54738
SUB
53329
LOC
42945
TPA
42879



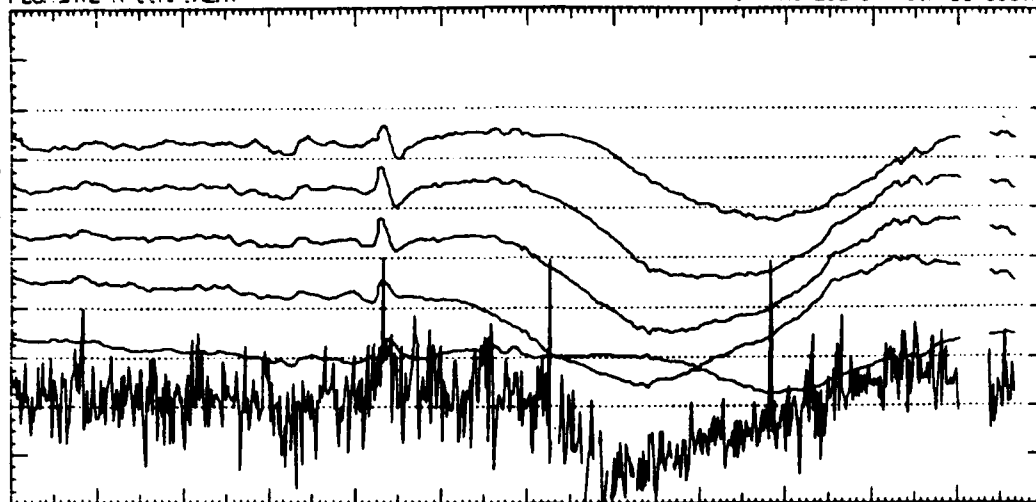
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
06 SEP 79 (DAY 79.249) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLIGHTGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

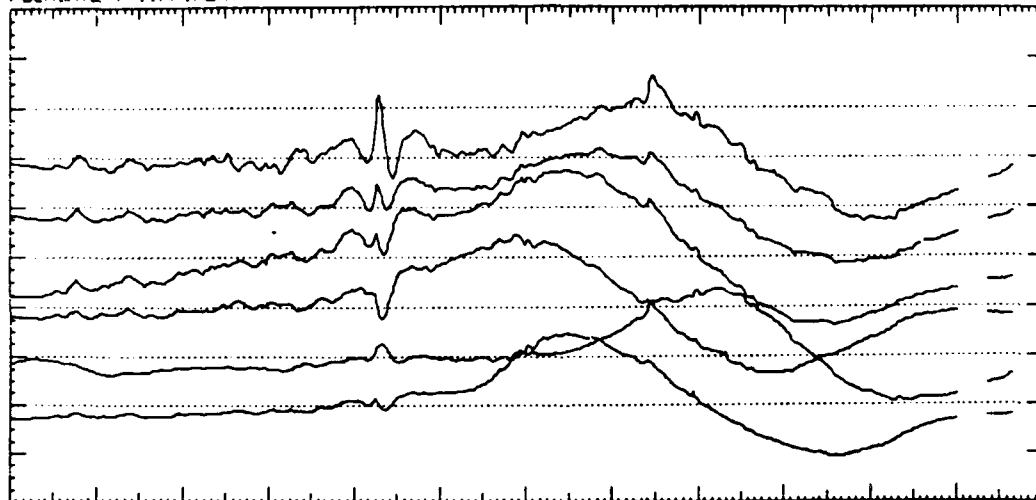
NEU
18162
RPC
18679
CDS
17352
MCL
18023
SUB
18634
LOC
25034
TPA
25387



FLIGHTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

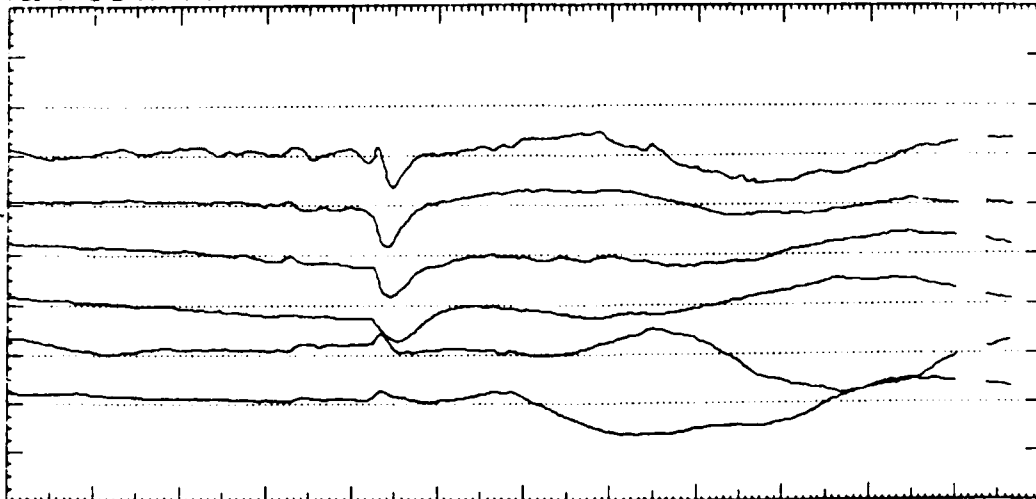
NEU
45
RPC
17
CDS
51
MCL
63
SUB
108
LOC
67
TPA
-2



FLIGHTGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54700
RPC
54724
CDS
55507
MCL
54721
SUB
53327
LOC
42950
TPA
42874

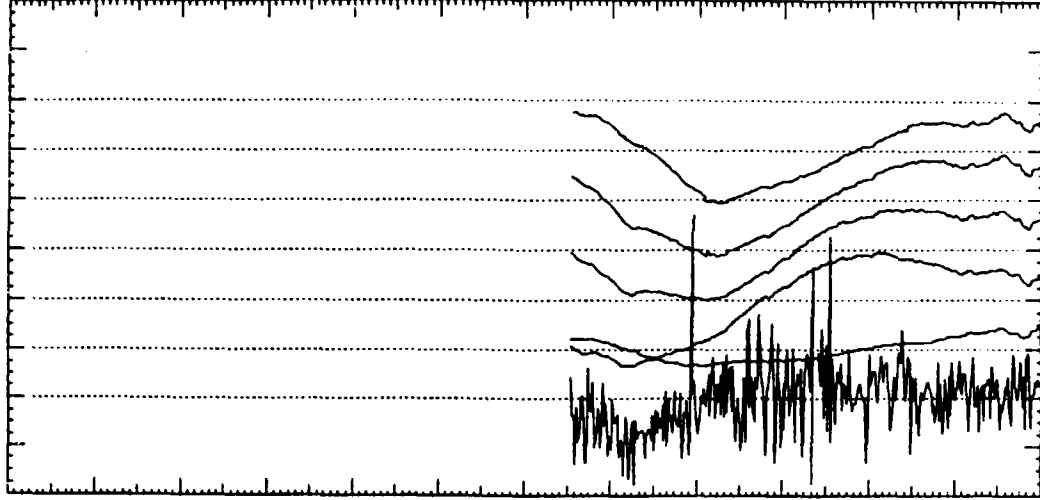


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
08 SEP 79 (DAY 79.251) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTGATE X COMPONENT

40 NANOTESLAS-MAJOR DIVISION

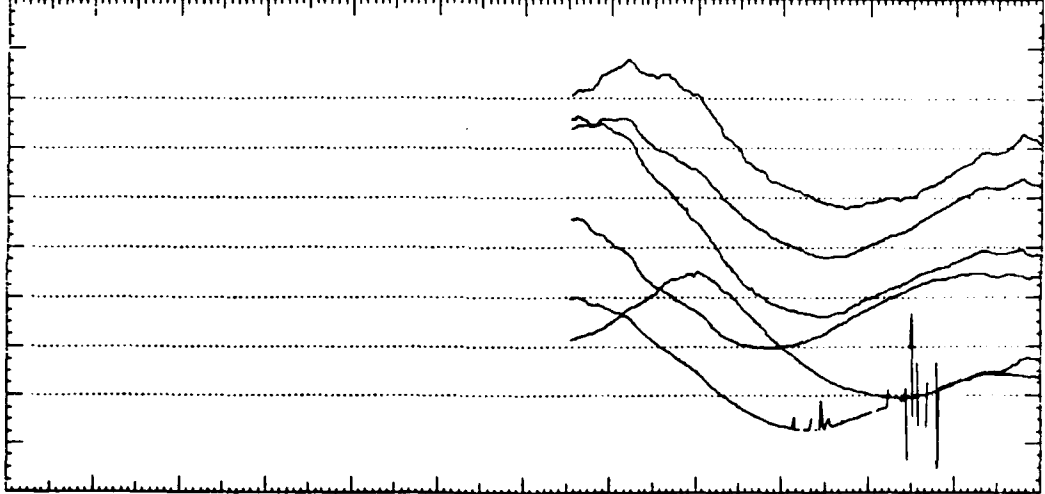
NEW
18102
RPC
18666
CDS
17334
MCL
18007
SUB
18625
LOC
25027
TPA
25381



FLIGHTGATE Y COMPONENT

40 NANOTESLAS-MAJOR DIVISION

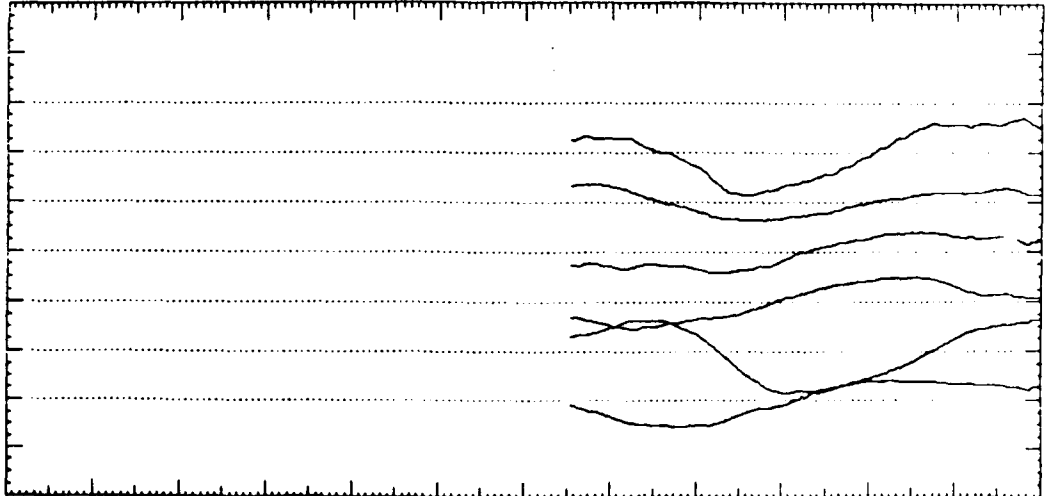
NEW
45
RPC
8
CDS
34
MCL
36
SUB
88
LOC
66
TPA
-29



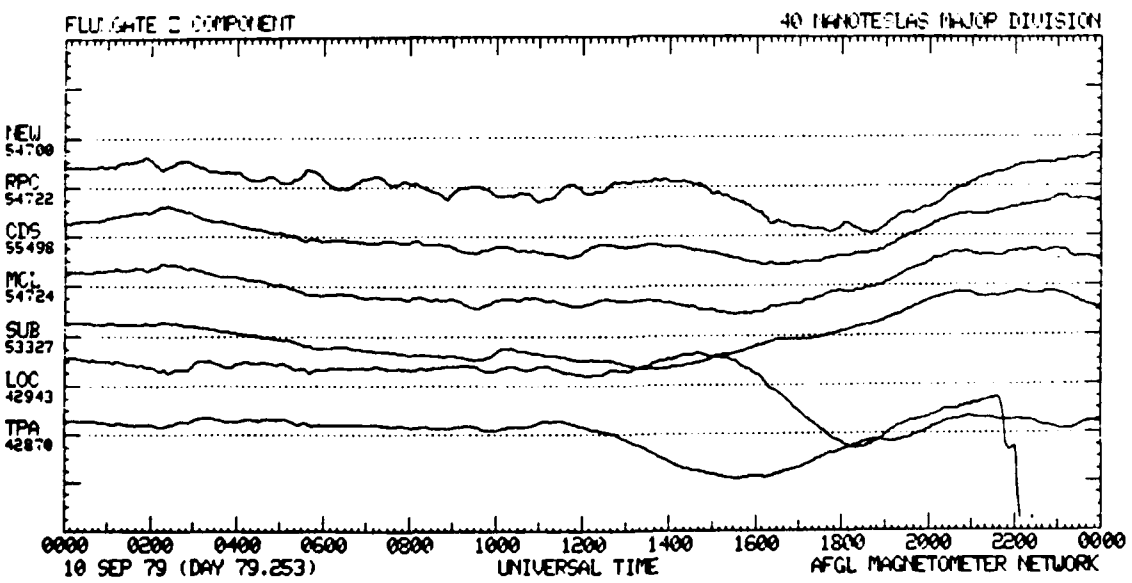
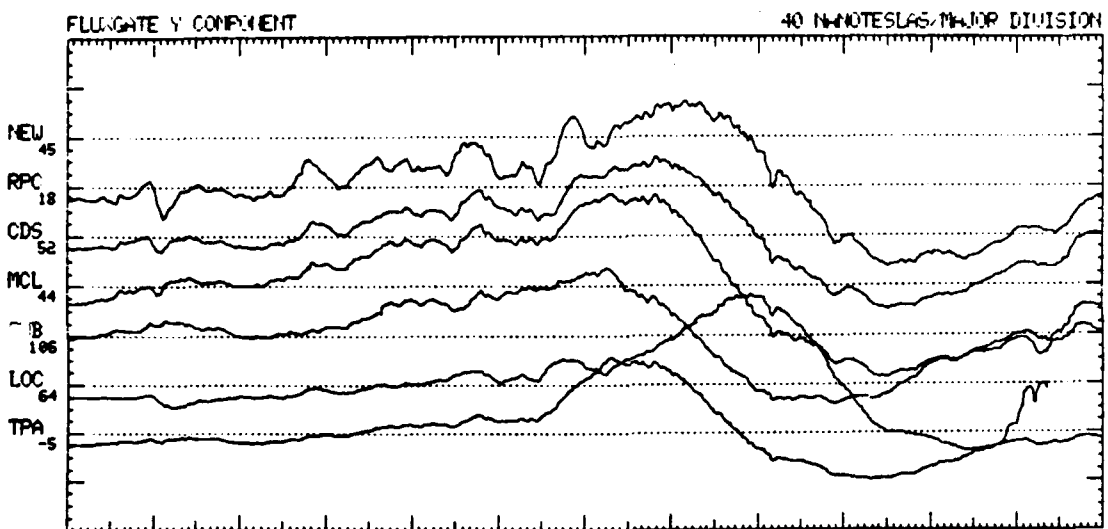
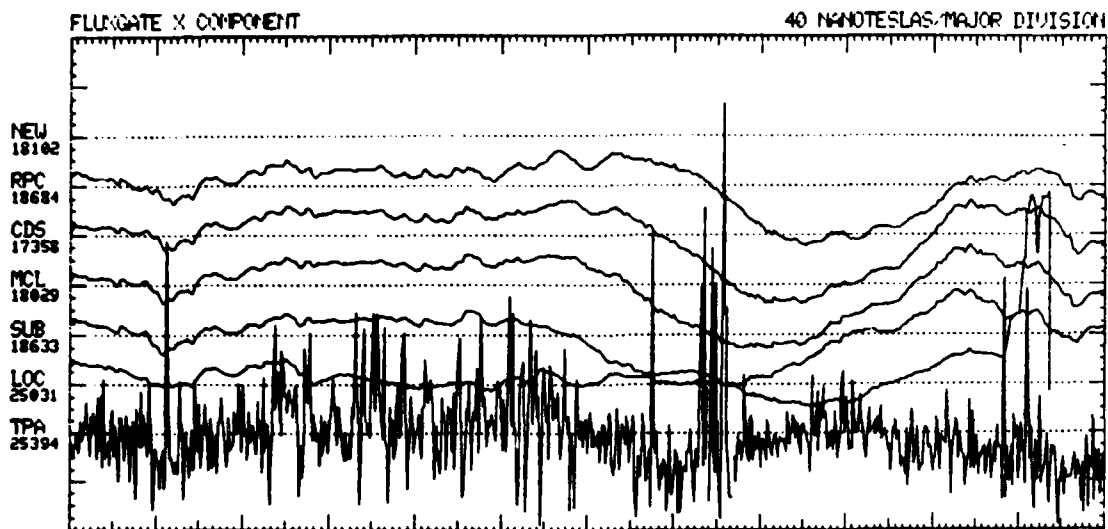
FLIGHTGATE Z COMPONENT

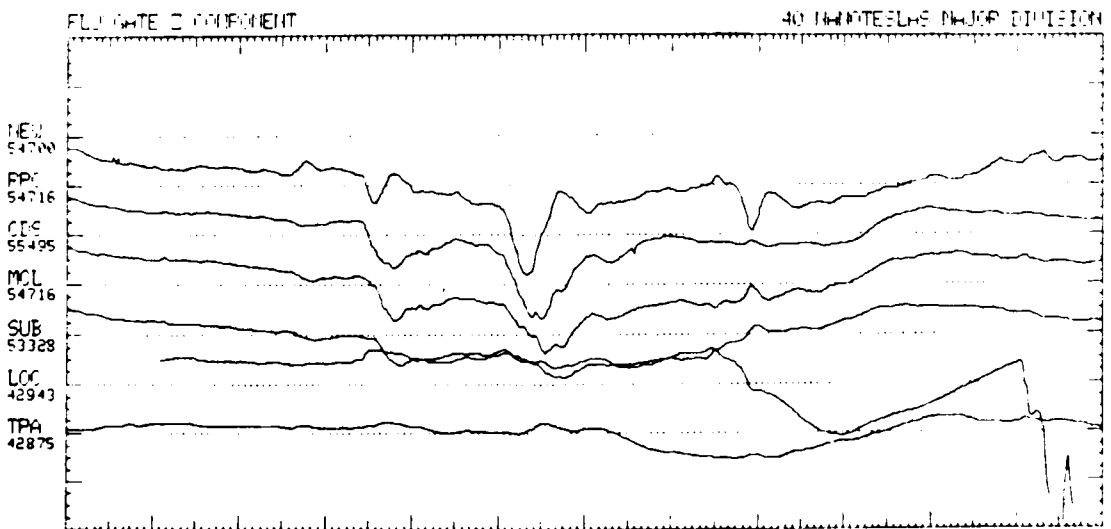
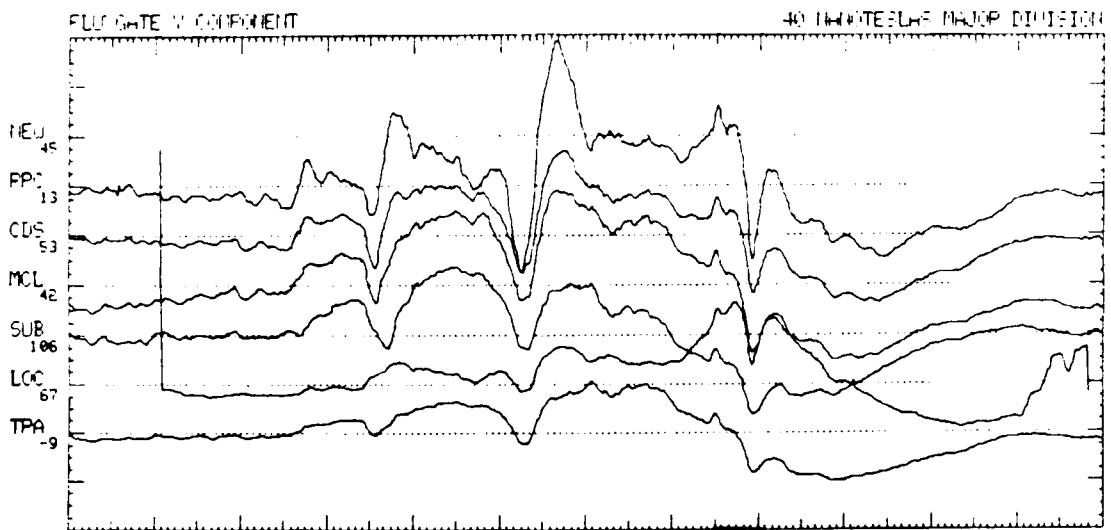
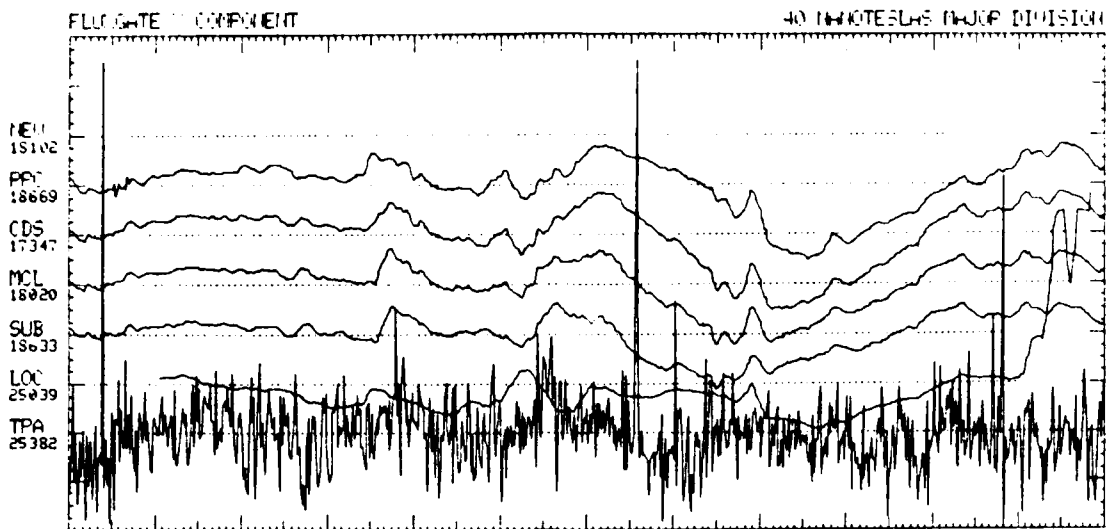
40 NANOTESLAS-MAJOR DIVISION

NEW
54700
RPC
54720
CDS
55503
MCL
54726
SUB
53335
LOC
42938
TPA
42869



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
09 SEP 79 (DAY 79.252) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



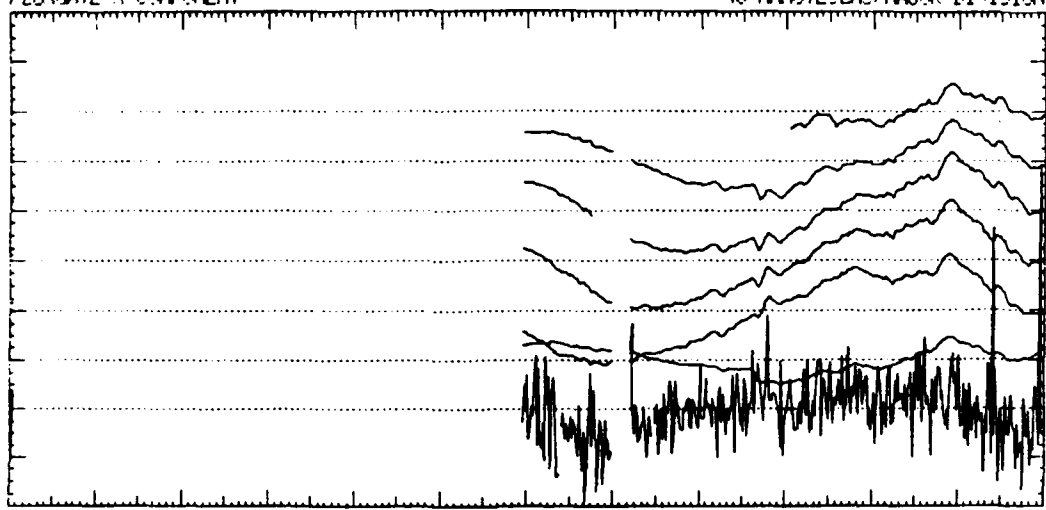


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 SEP 79 (DAY 79.254) UNIVERSAL TIME HFGL MAGNETOMETER NETWORK

FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

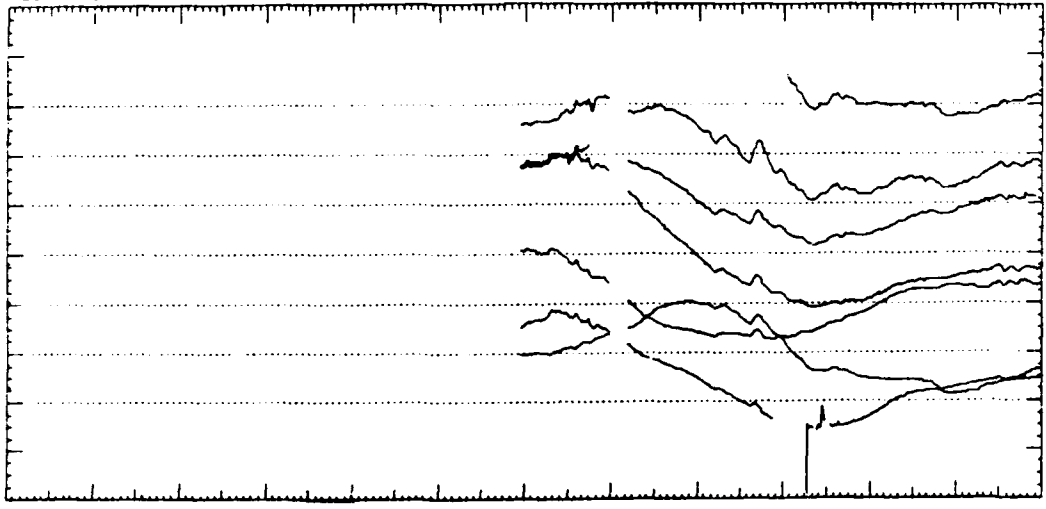
NEW
18135
RPC
18677
CDS
17352
MCL
18024
SUB
18633
LOC
25041
TPA
25385



FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

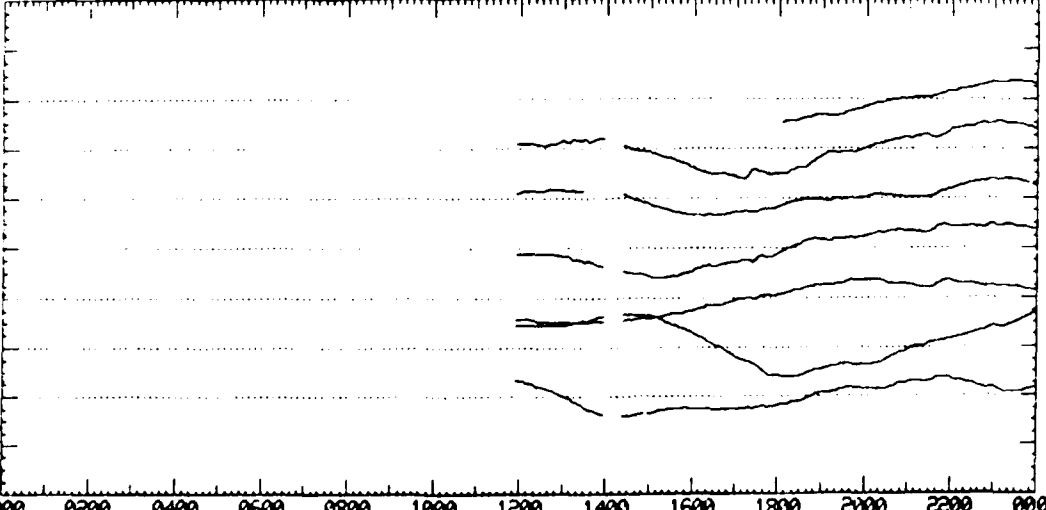
NEW
40
RPC
2
CDS
44
MCL
25
SUB
101
LOC
71
TPA
-3



FLIGHTGATE Z COMPONENT

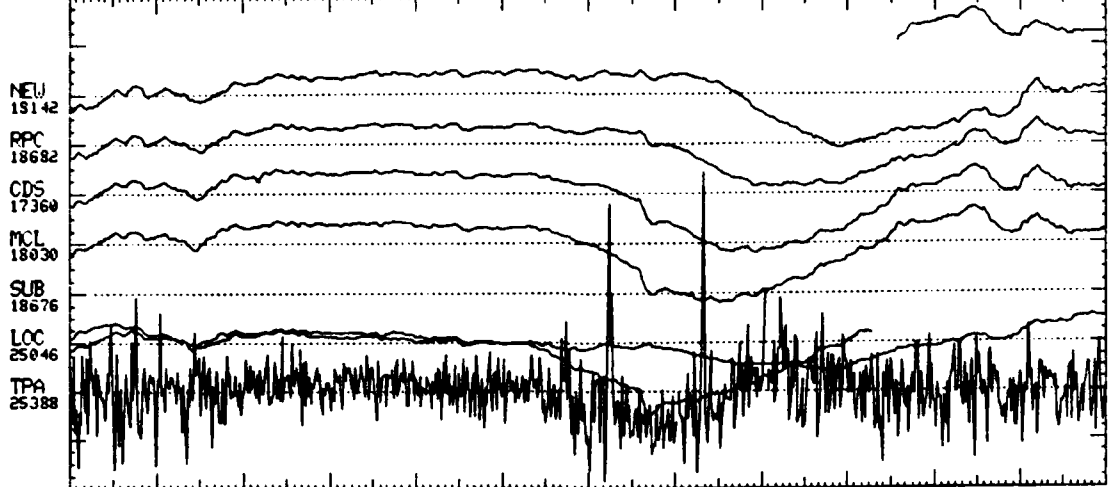
40 NANOTESLAS MAJOR DIVISION

NEW
54712
RPC
54717
CDS
55497
MCL
54721
SUB
53332
LOC
42941
TPA
42864

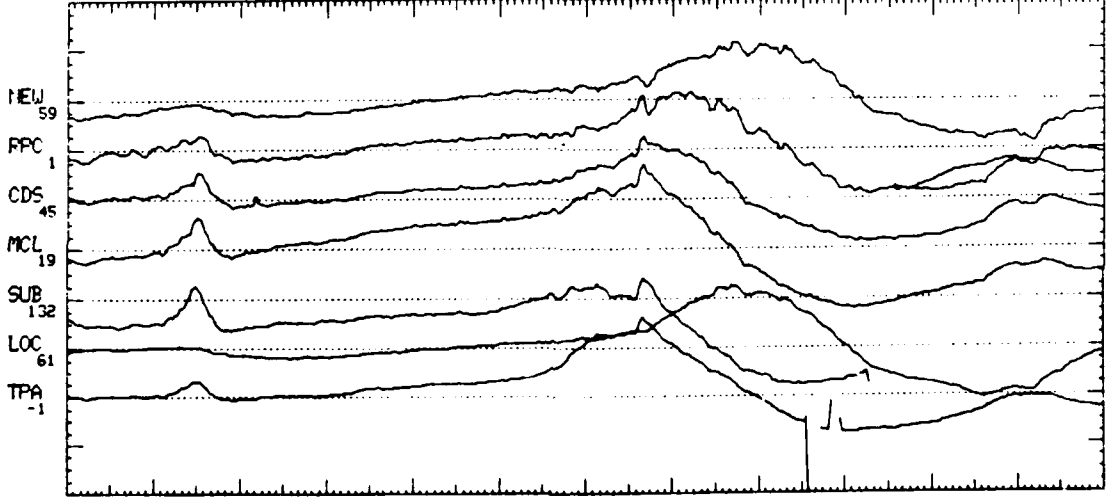


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 SEP 79 (DAY 79.255) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

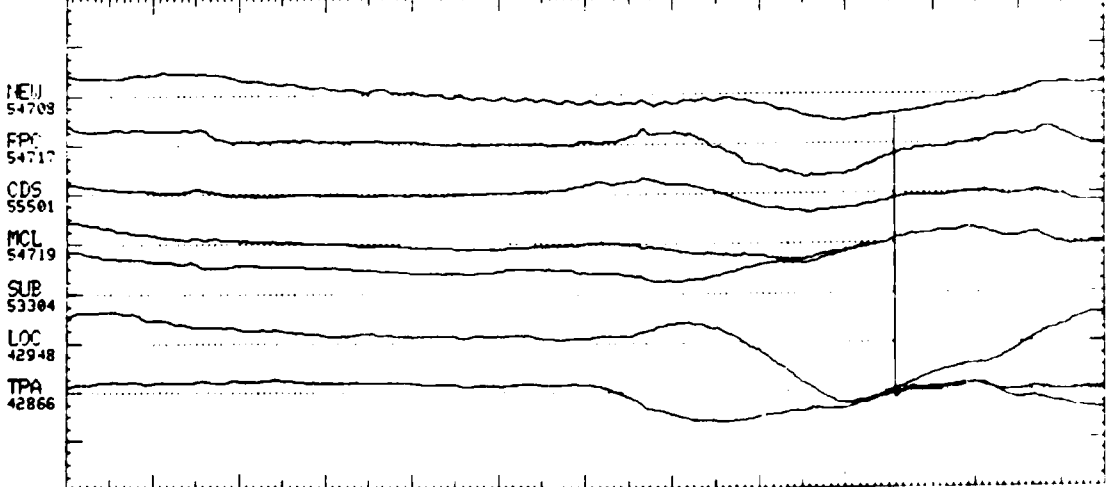
FLIGHTLINE X COMPONENT 40 NANOTESLAS MAJOR DIVISION



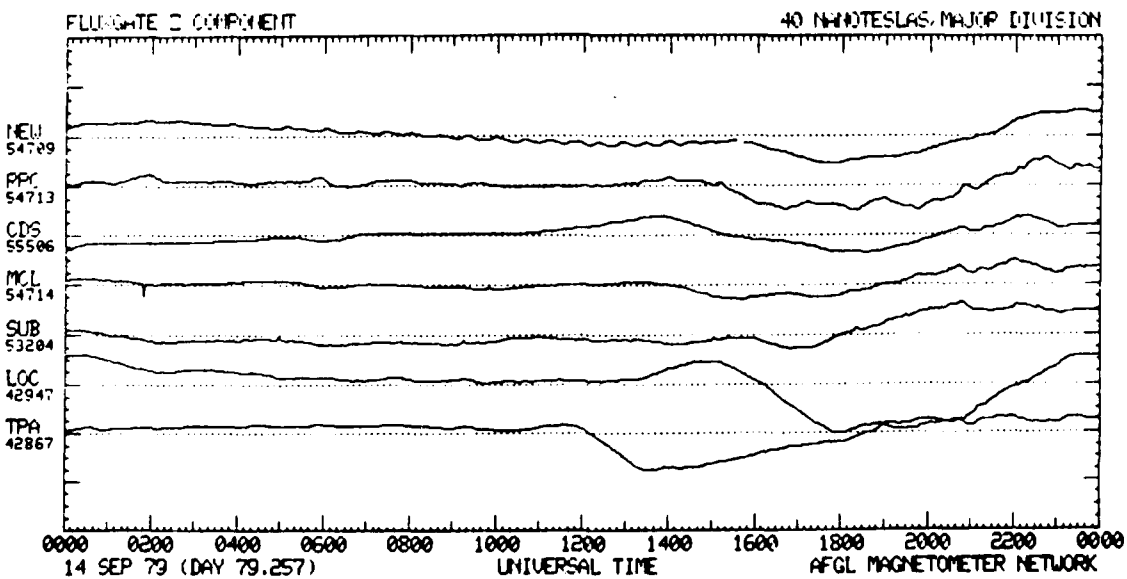
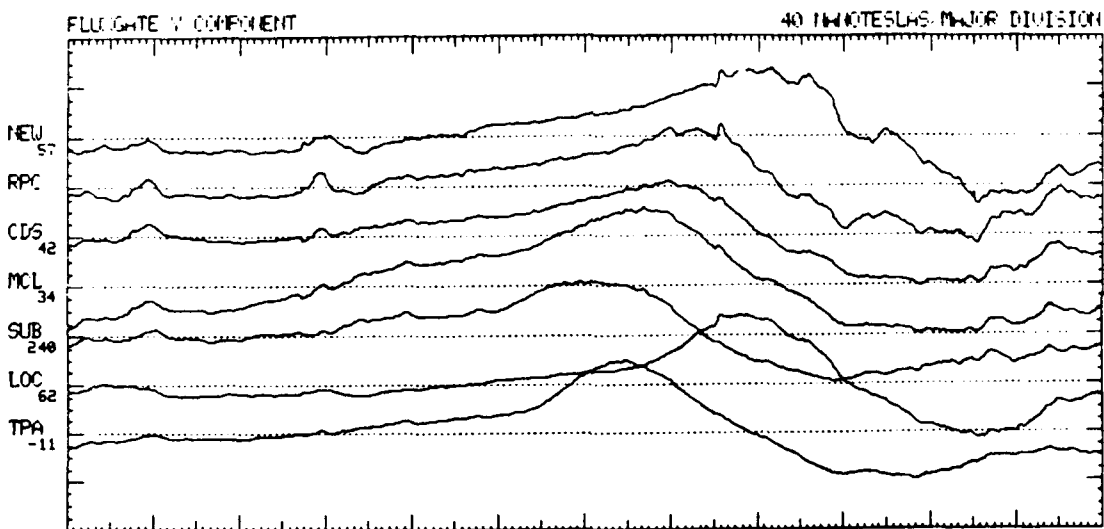
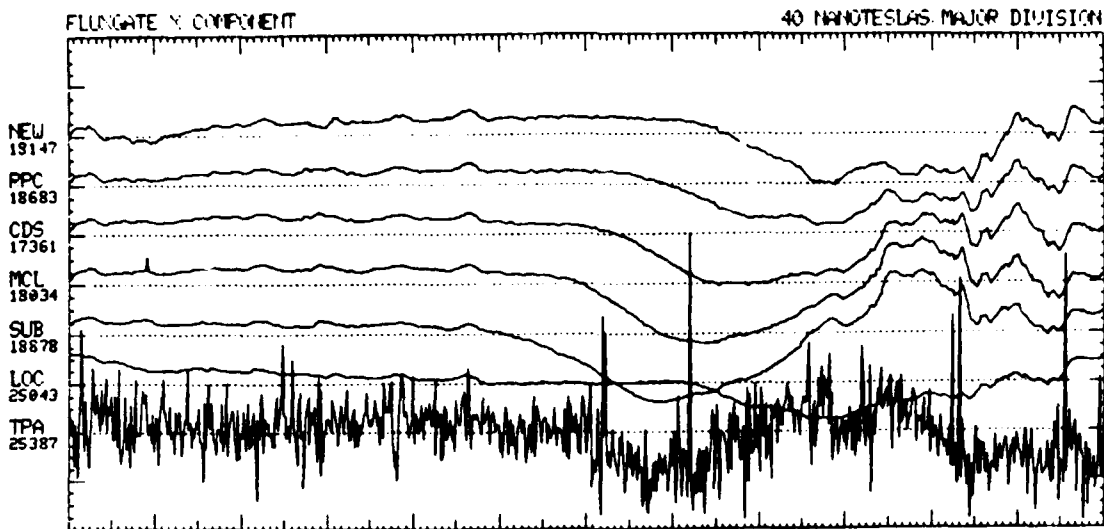
FLIGHTLINE Y COMPONENT 40 NANOTESLAS MAJOR DIVISION

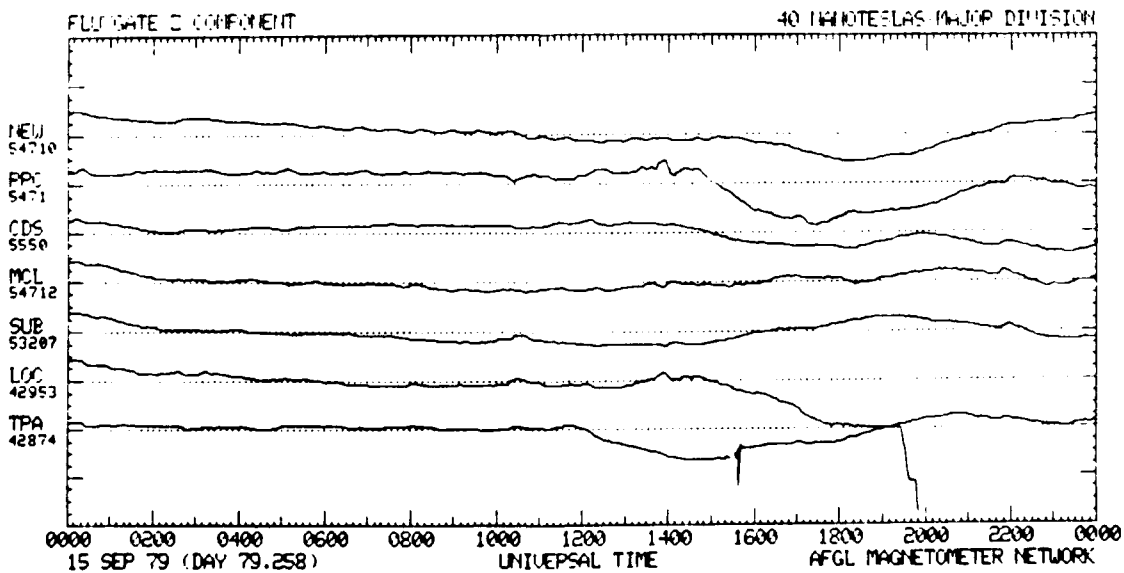
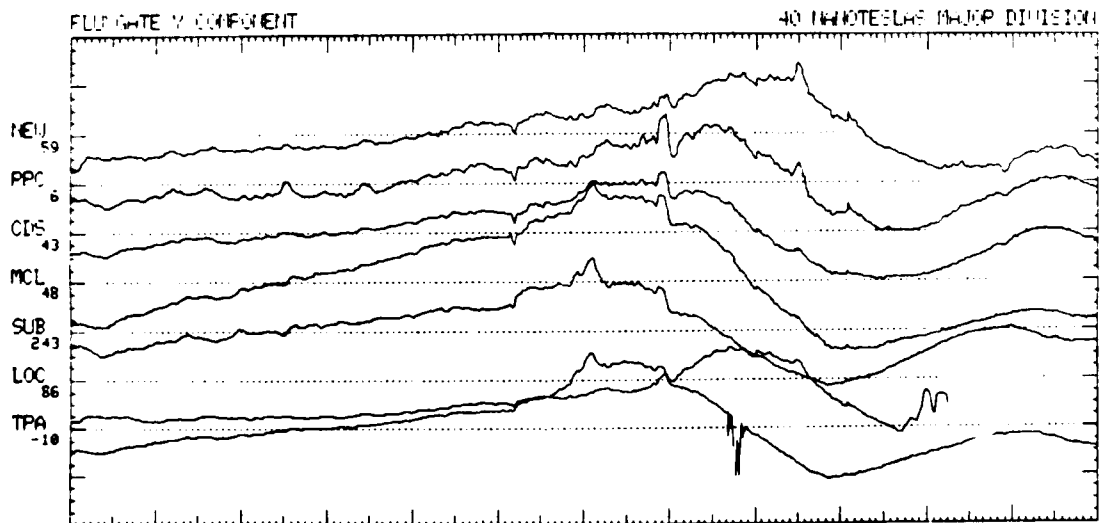
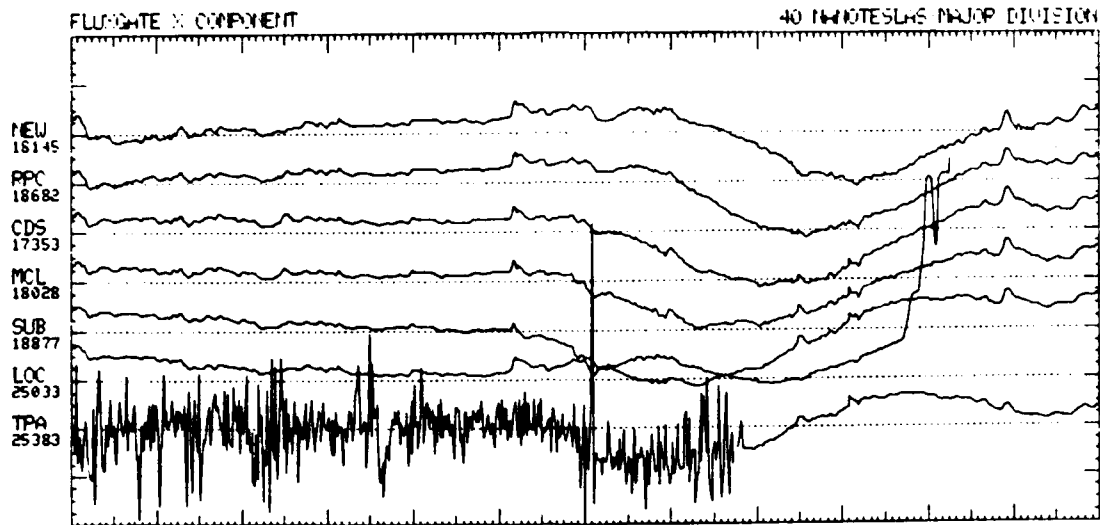


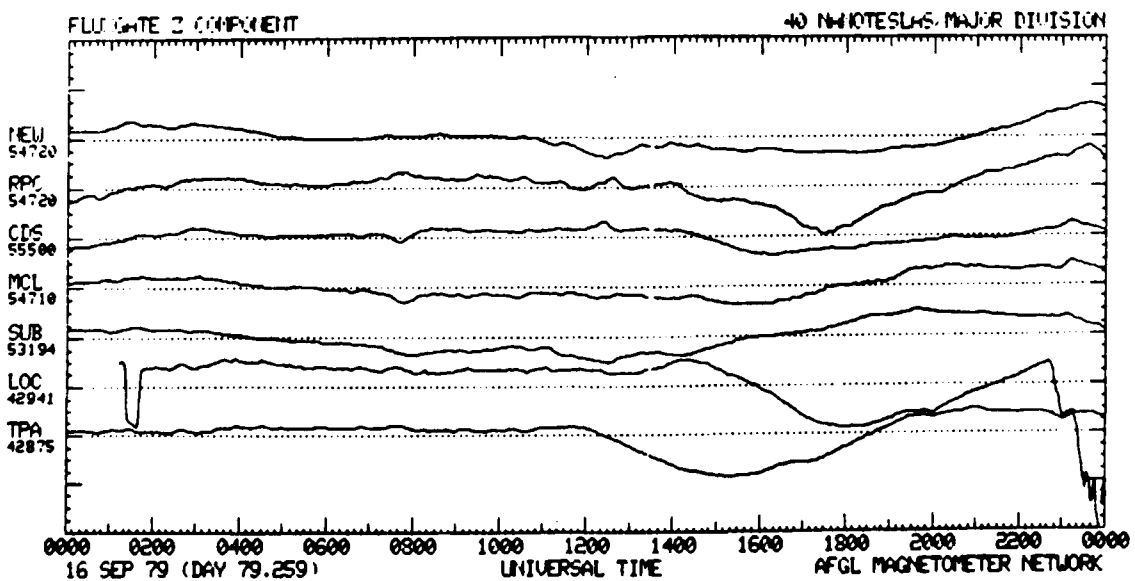
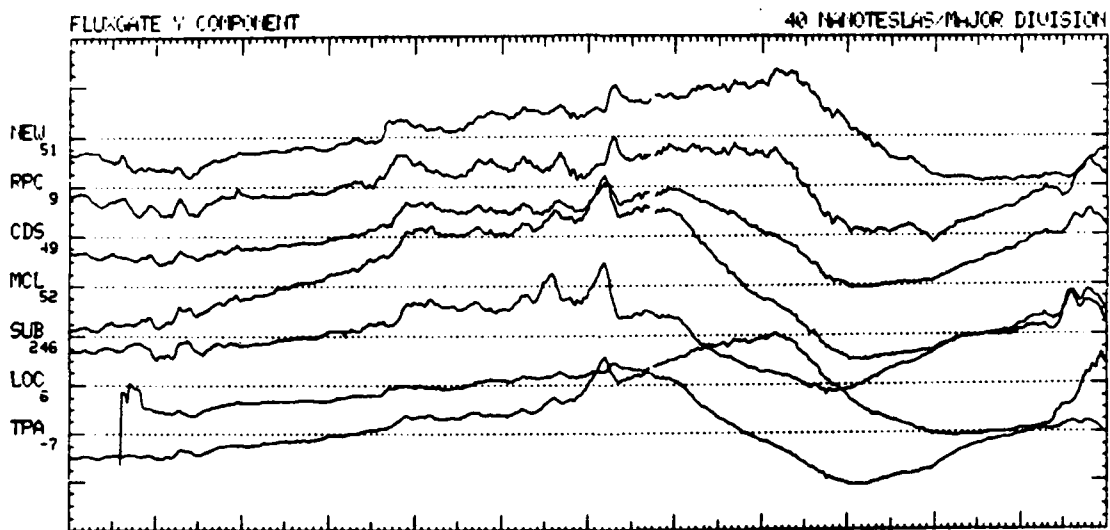
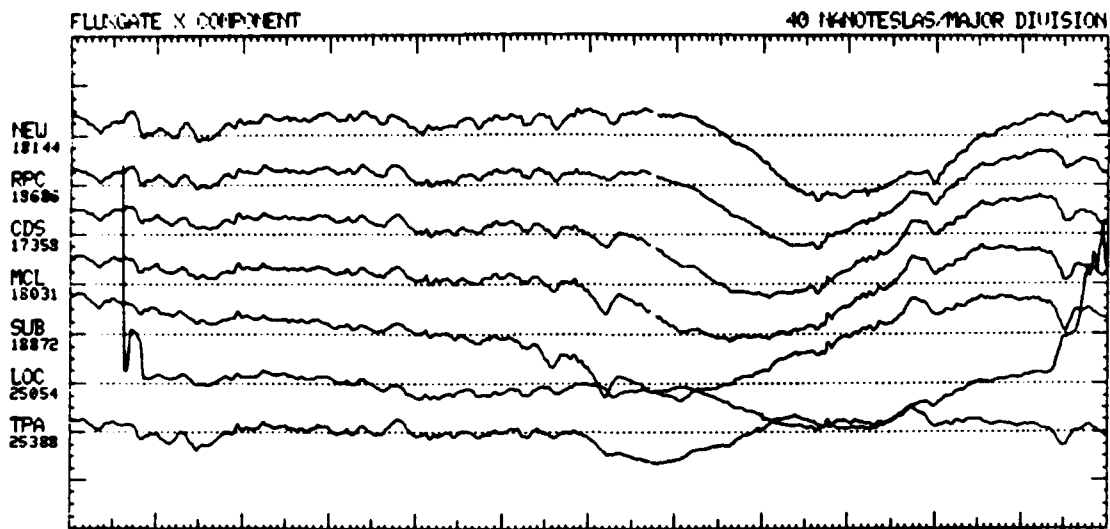
FLIGHTLINE Z COMPONENT 40 NANOTESLAS MAJOR DIVISION

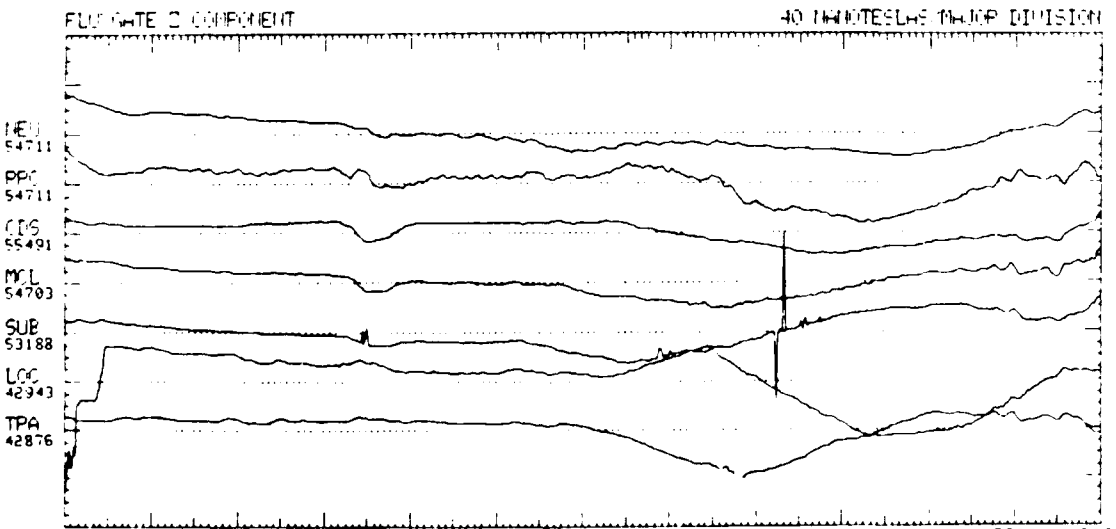
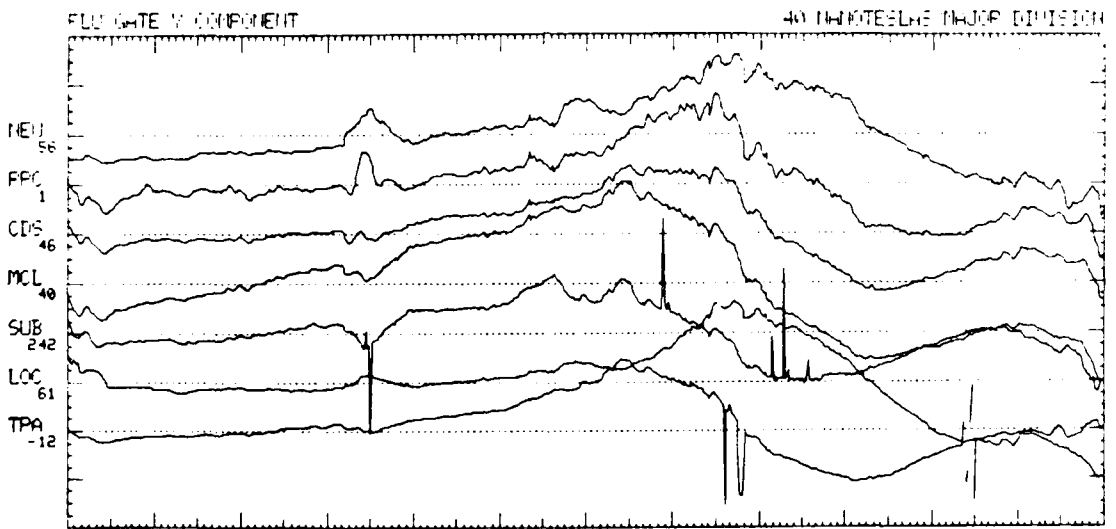
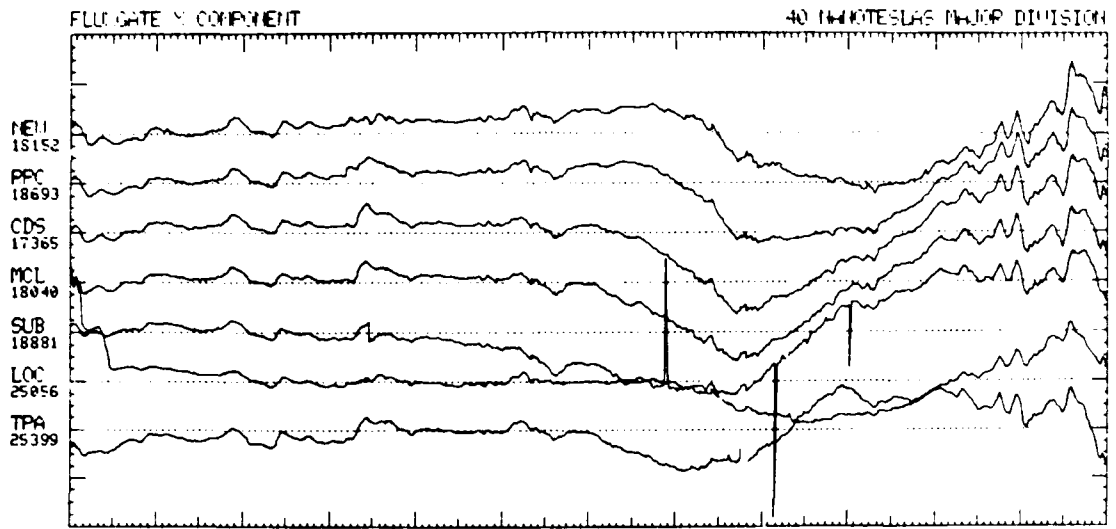


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 13 SEP 79 (DAY 79.256) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







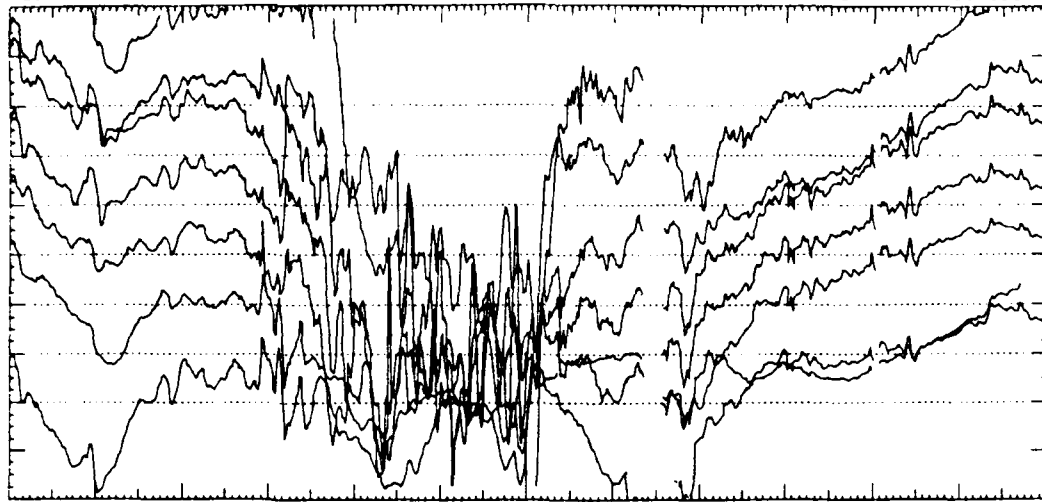


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 17 SEP 79 (DAY 79.260) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

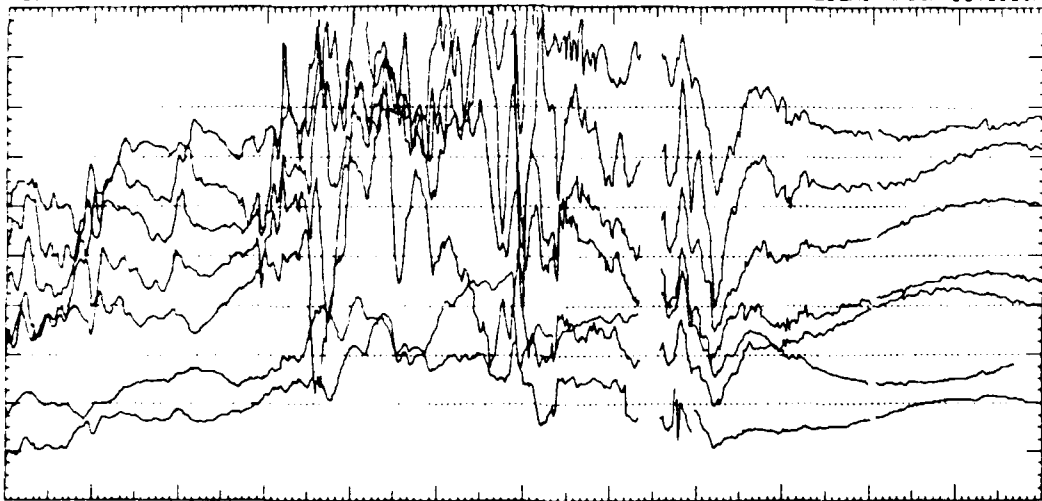
NEW
18057
RPC
18612
CDS
17272
MCL
17956
SUB
18805
LOC
24975
TPA
25331



FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

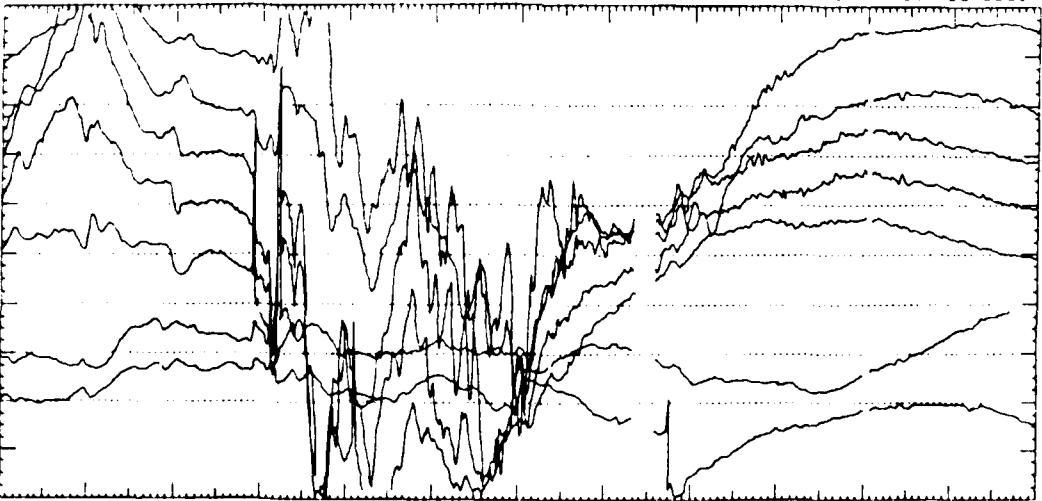
NEW
66
RPC
19
CDS
50
MCL
32
SUB
237
LOC
67
TPA
-9



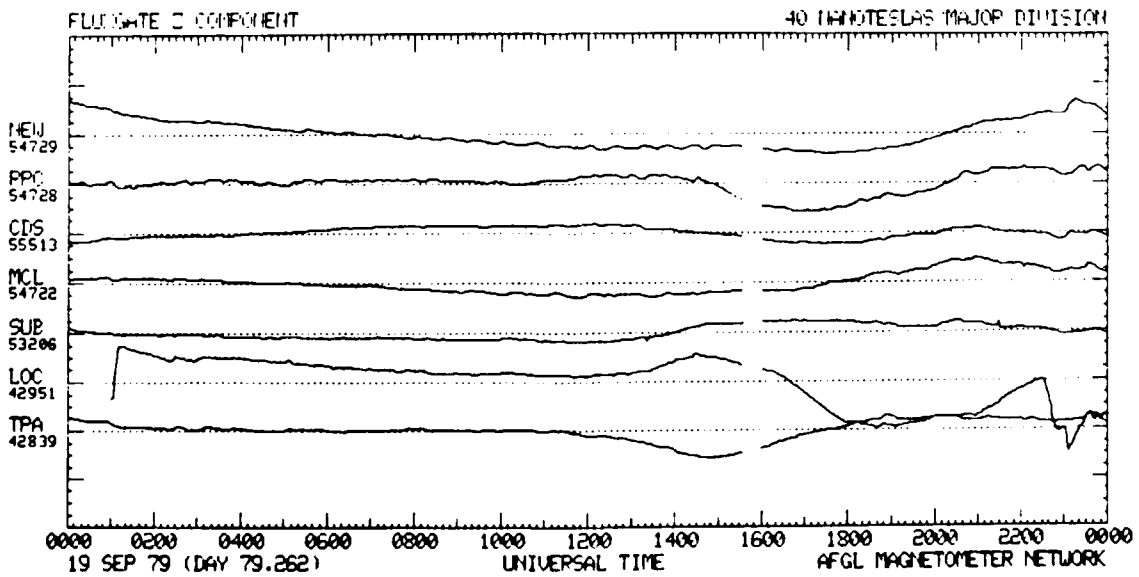
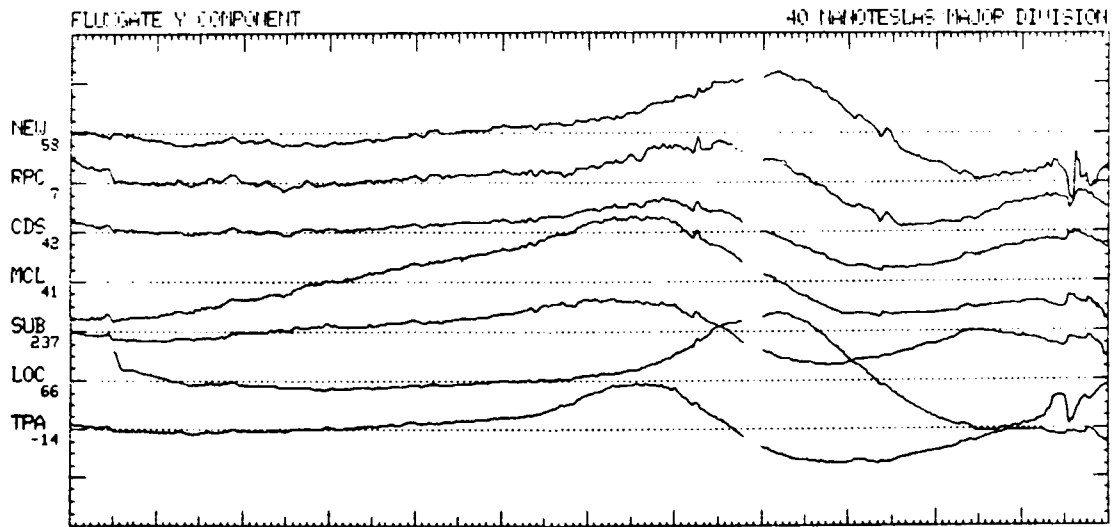
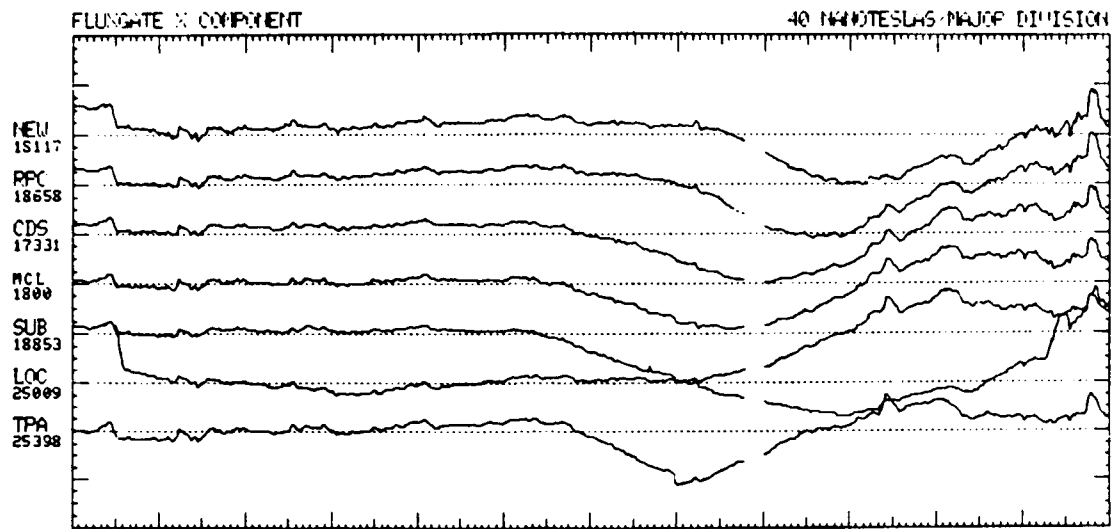
FLIGHTLINE Z COMPONENT

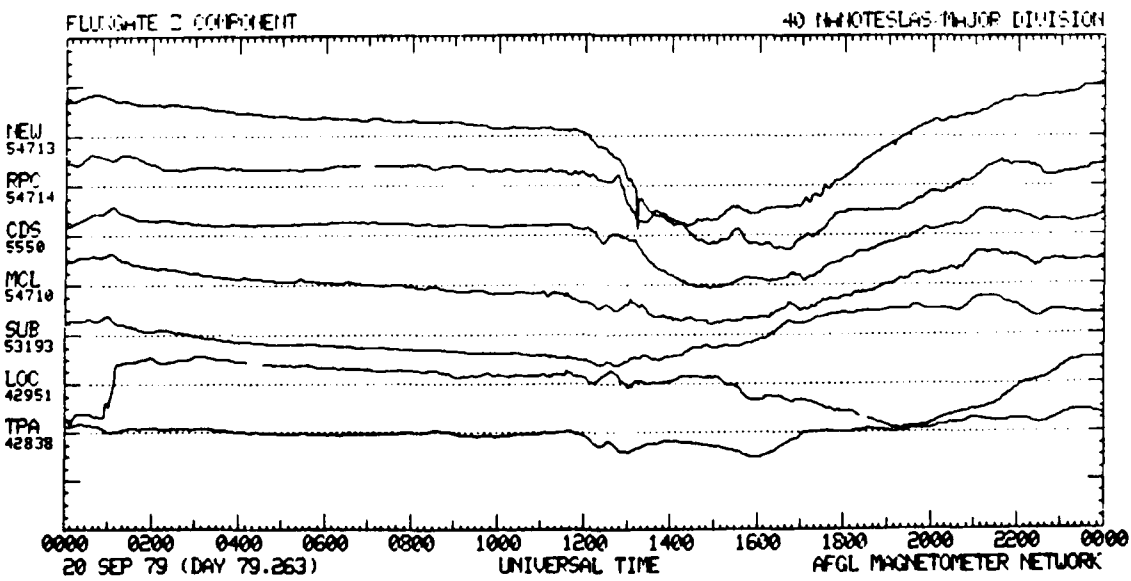
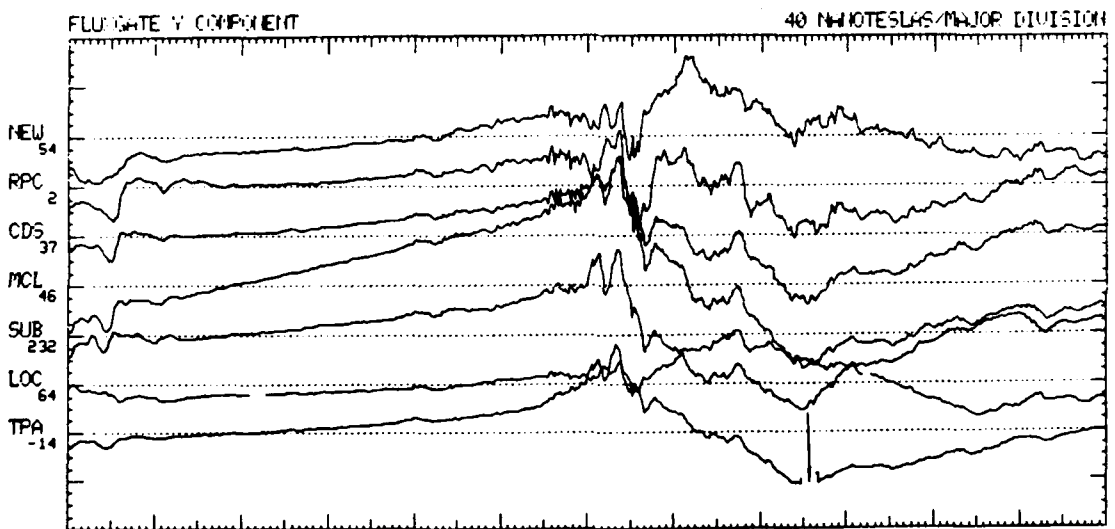
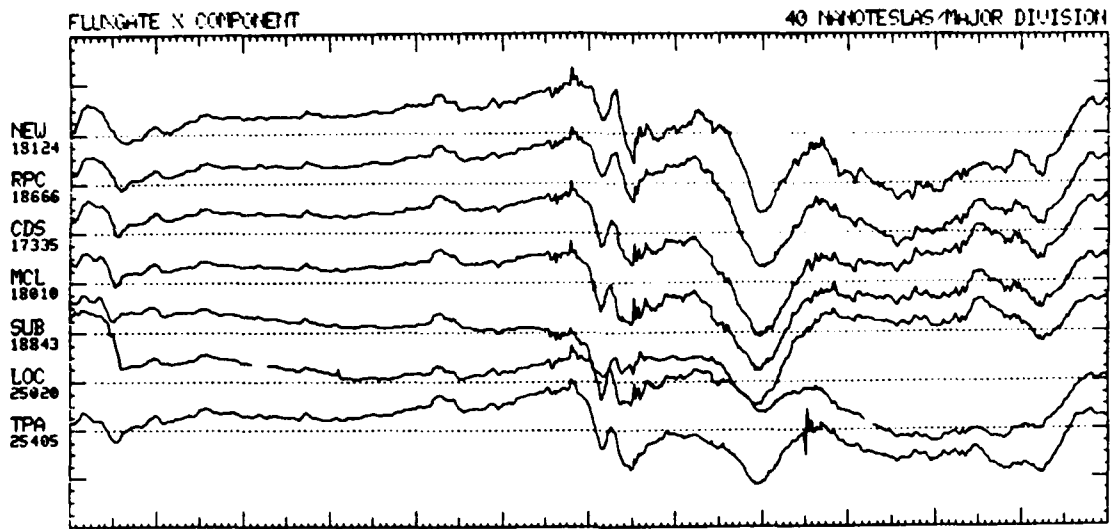
40 NANOTESLAS MAJOR DIVISION

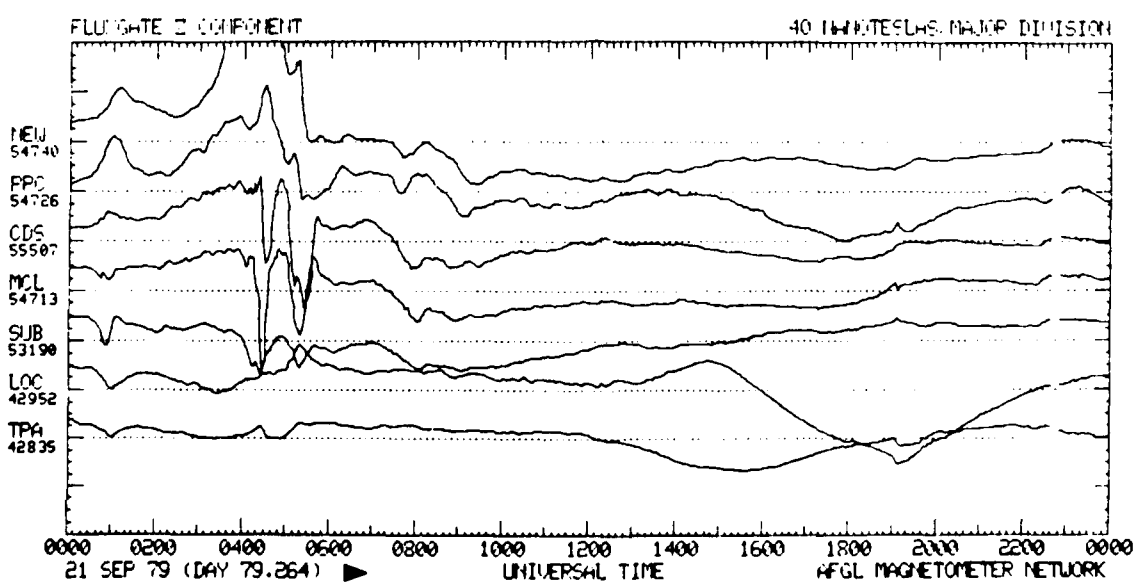
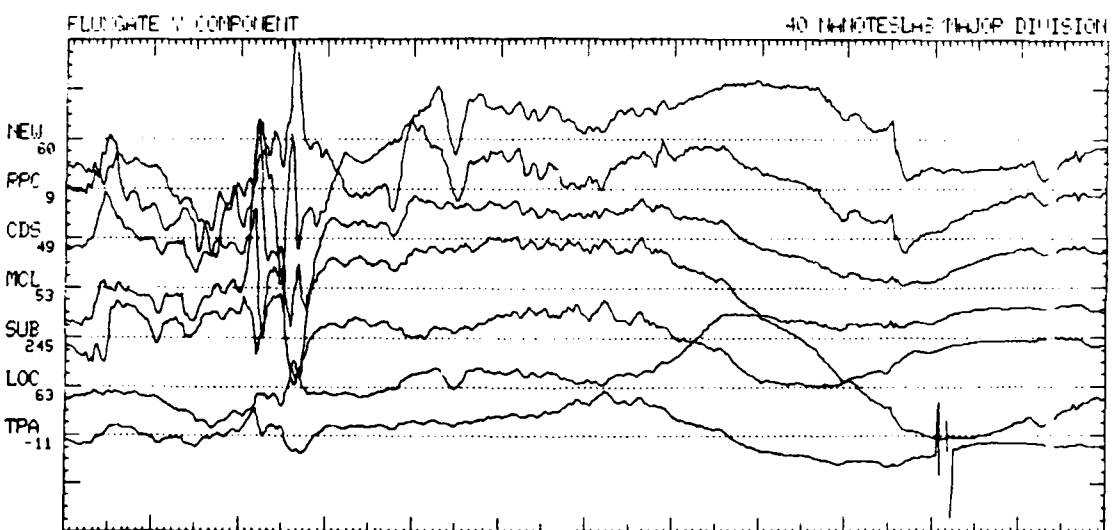
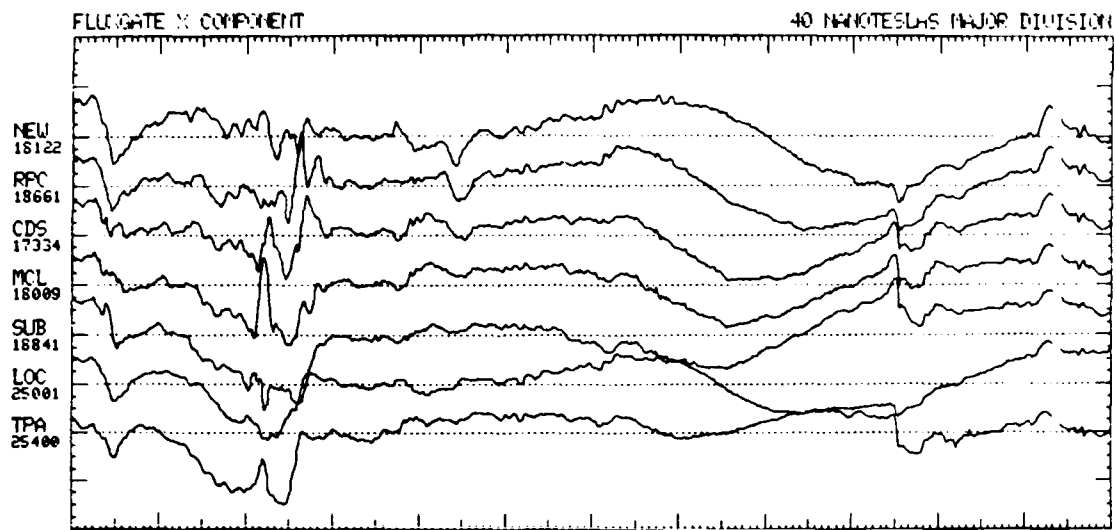
NEW
54696
RPC
54695
CDS
55471
MCL
54687
SUB
53173
LOC
42952
TPA
42868

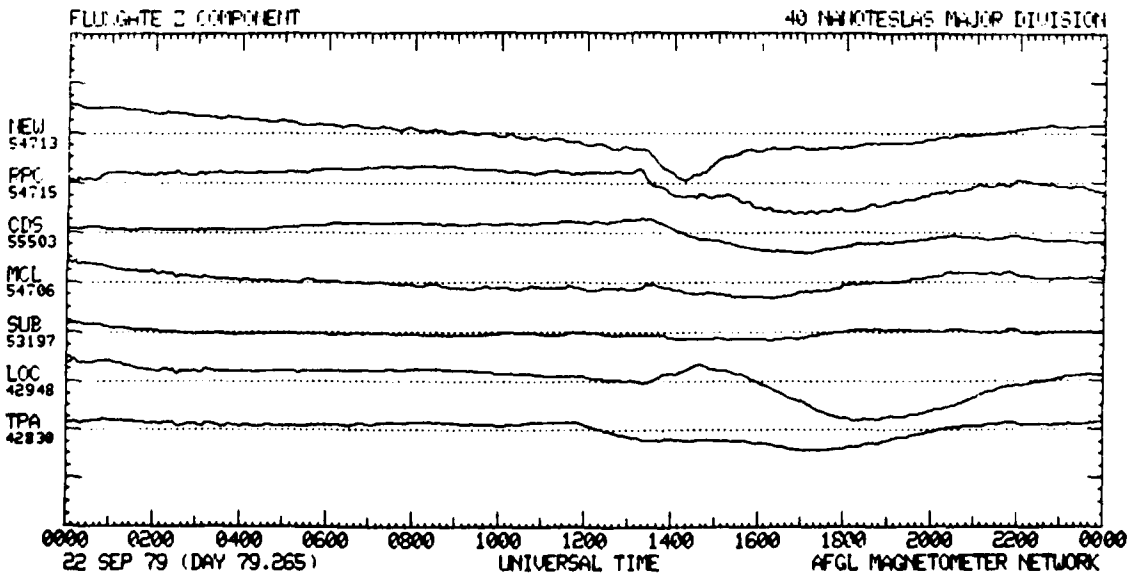
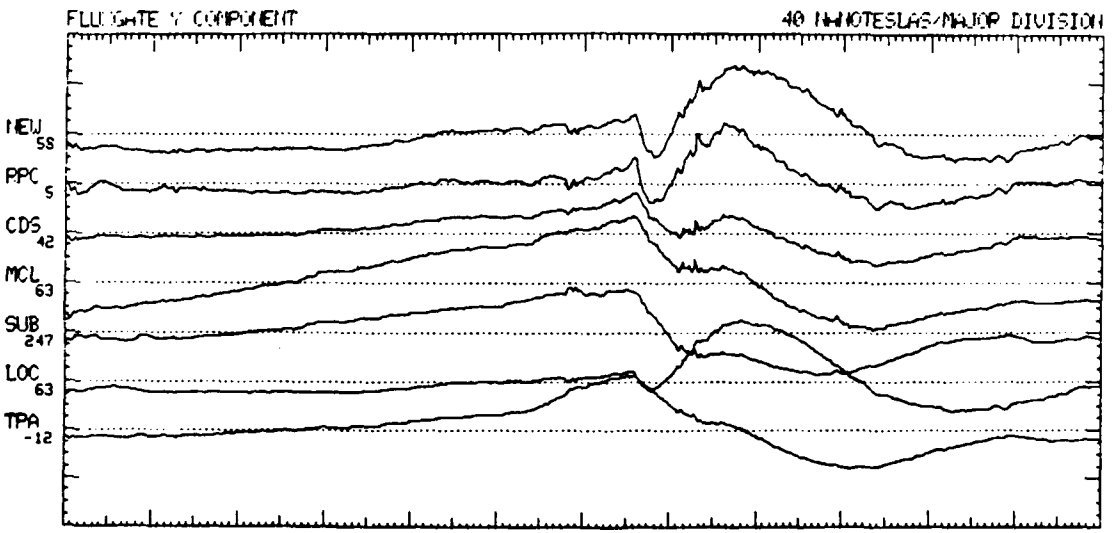
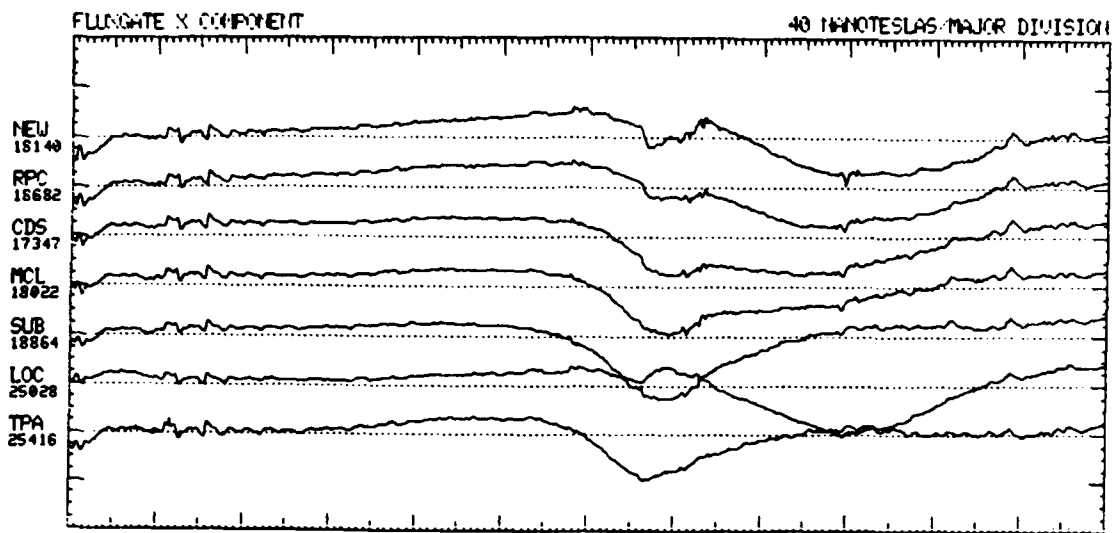


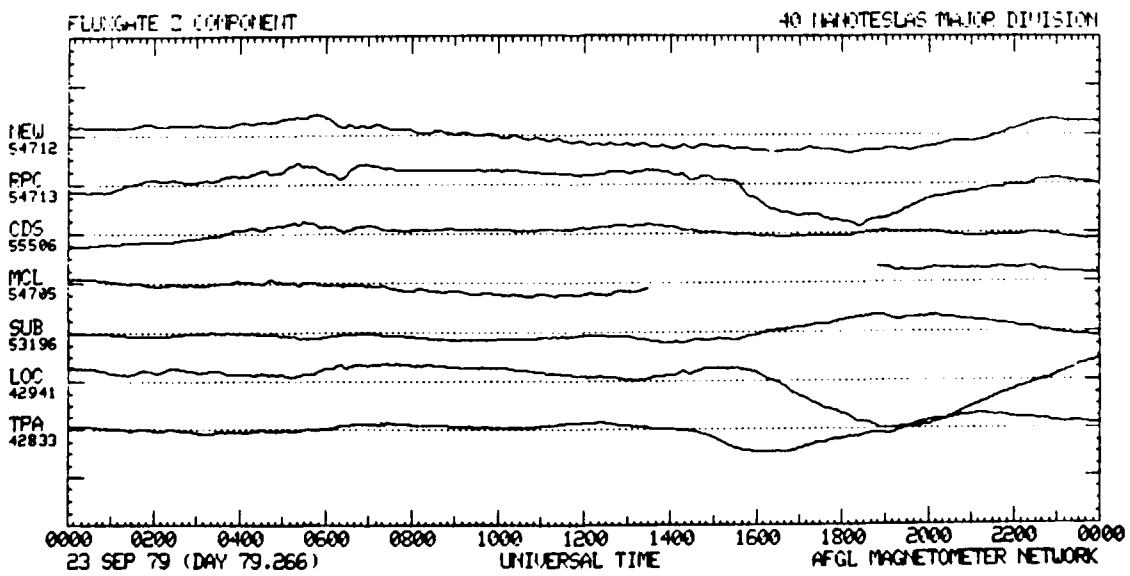
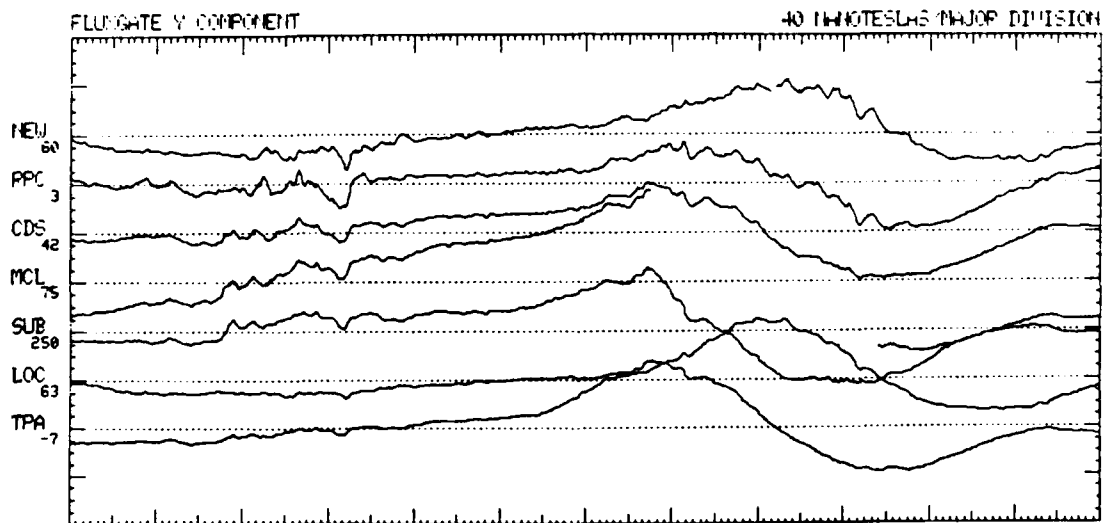
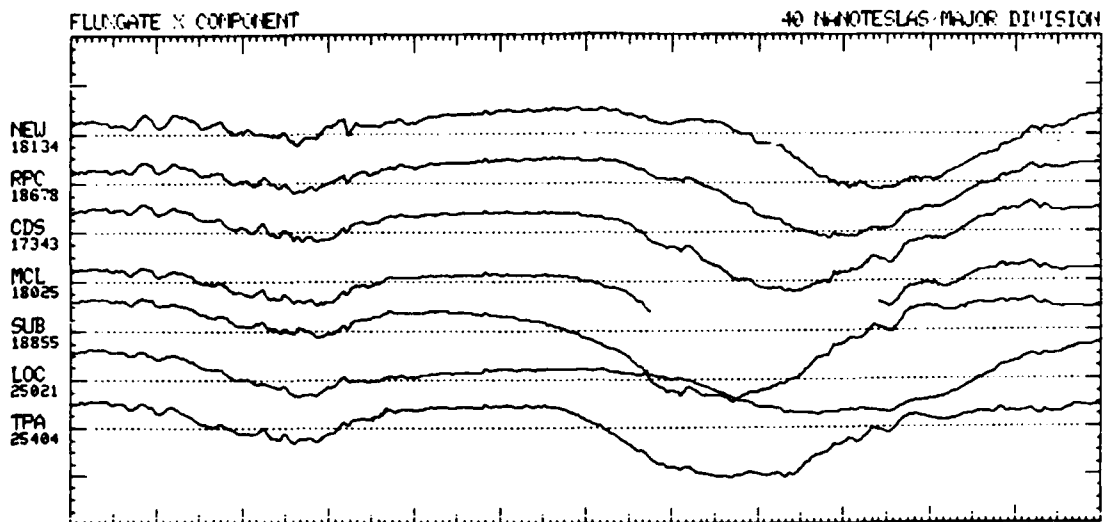
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
18 SEP 79 (DAY 79.261) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

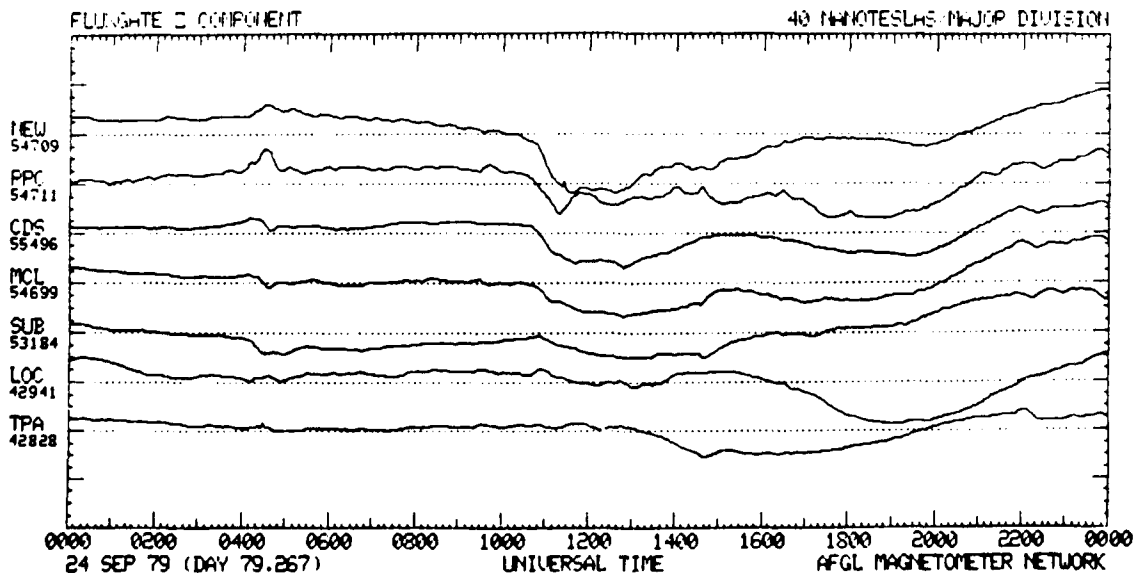
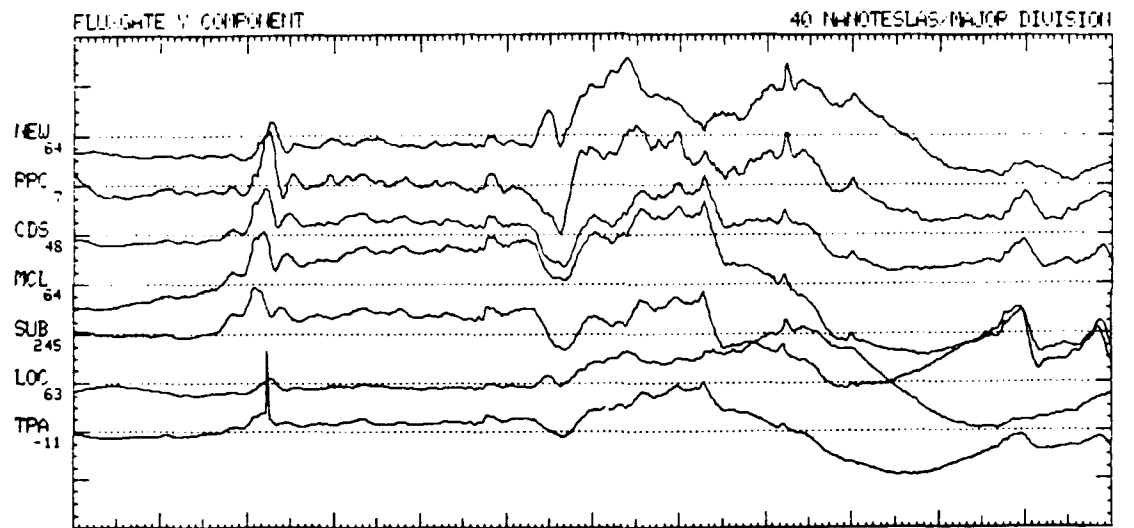
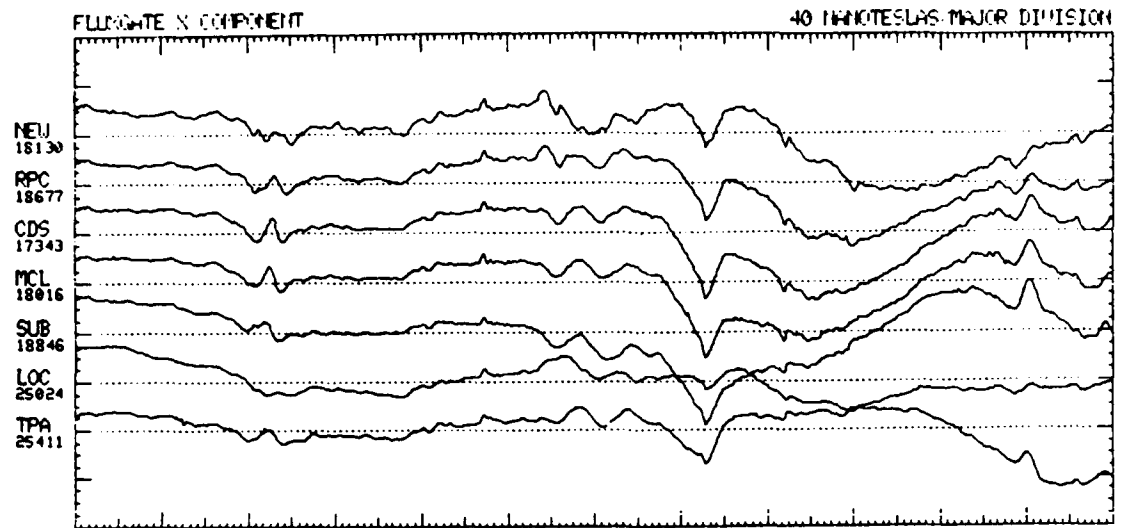


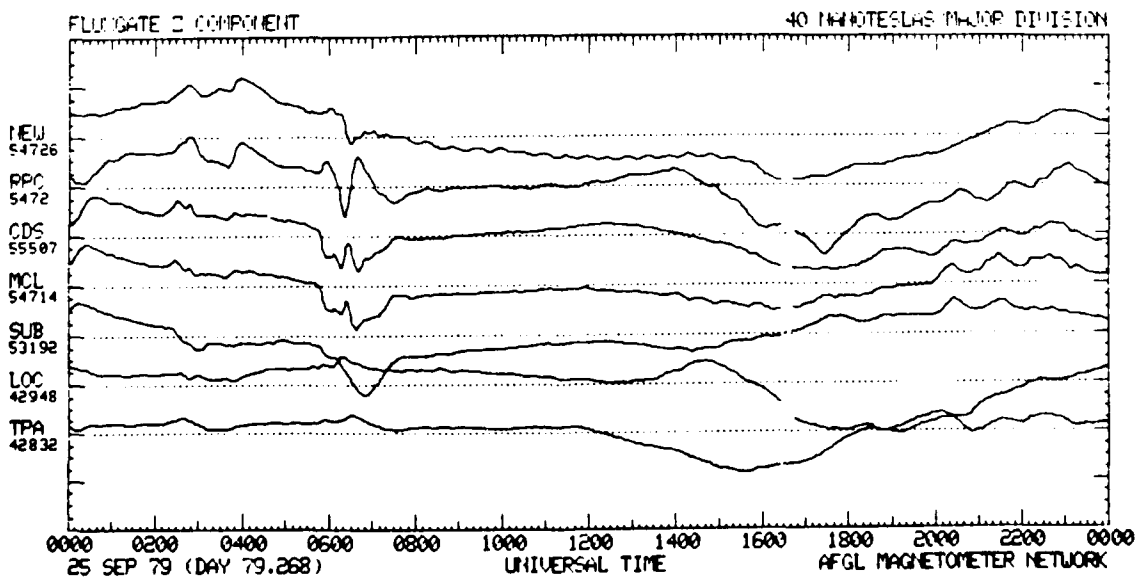
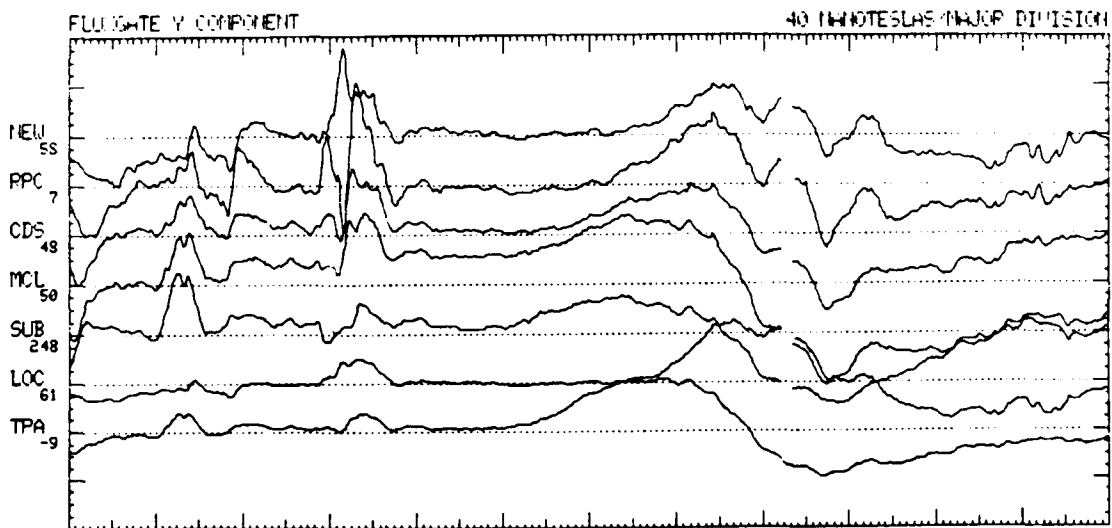
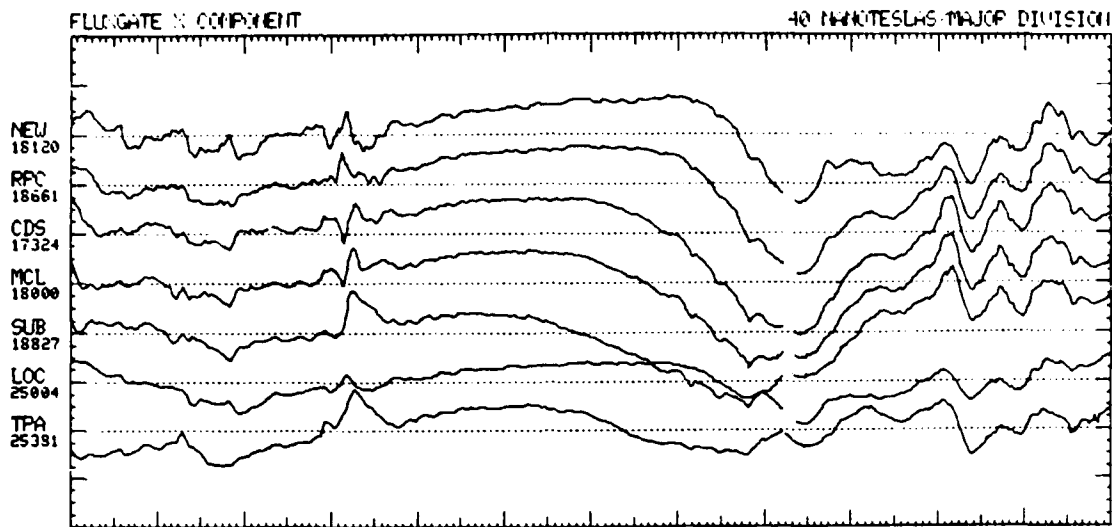






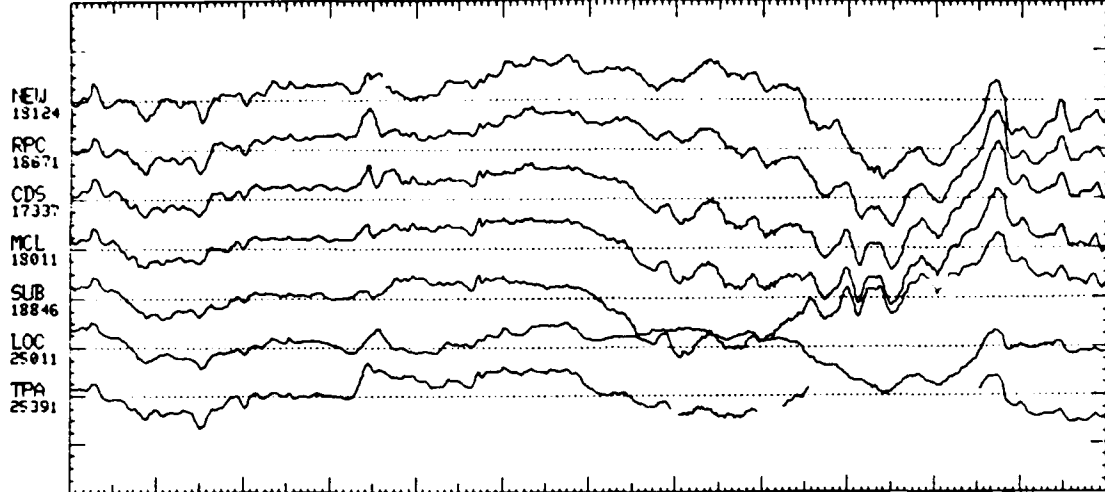






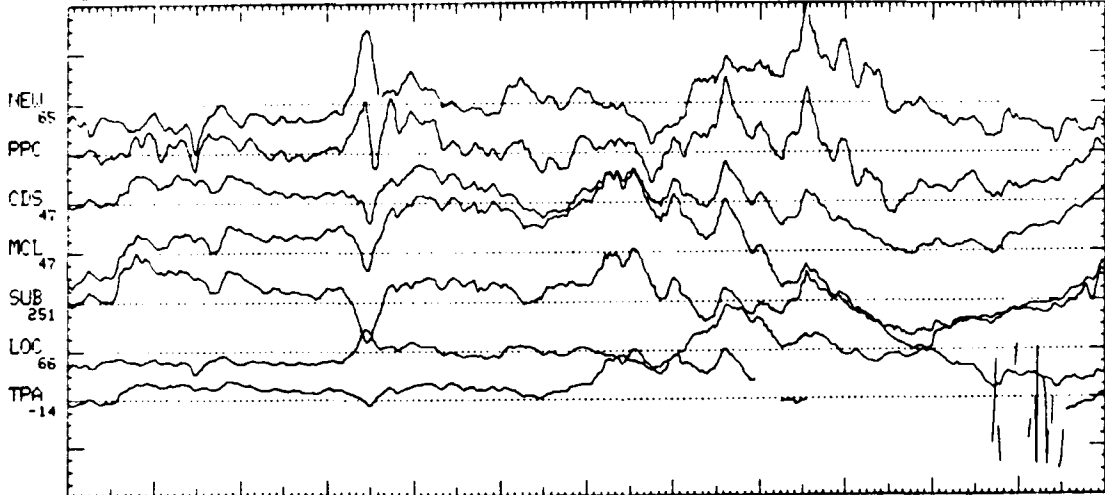
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



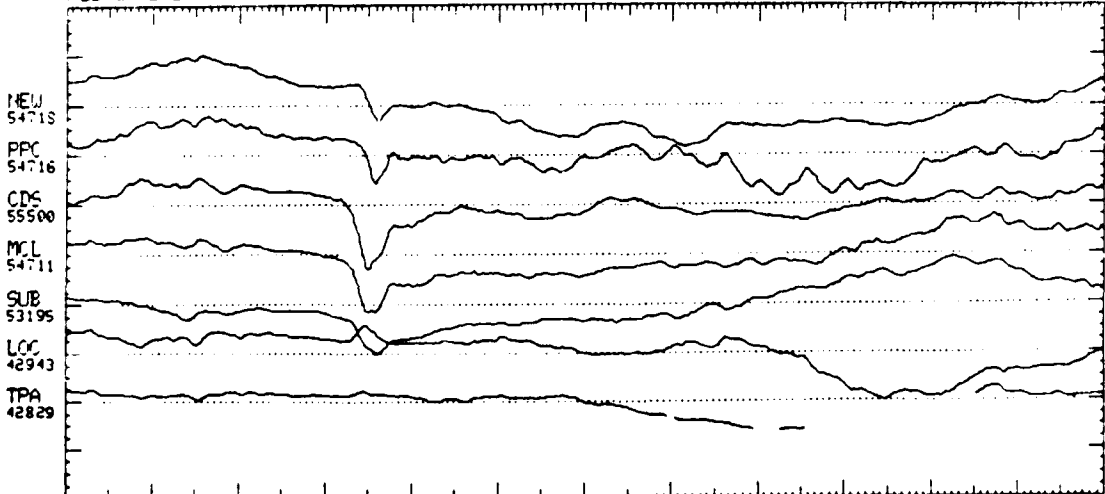
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

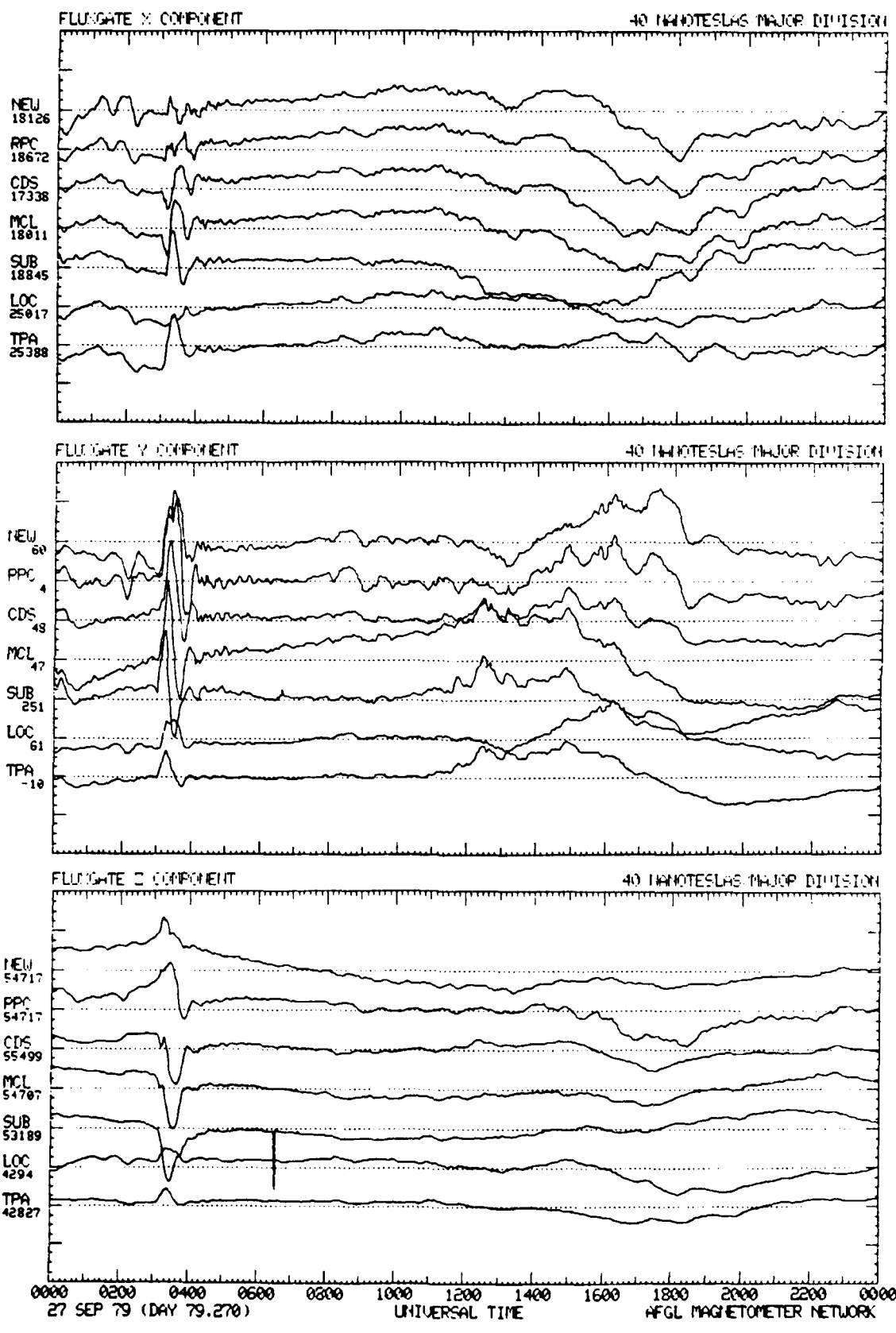


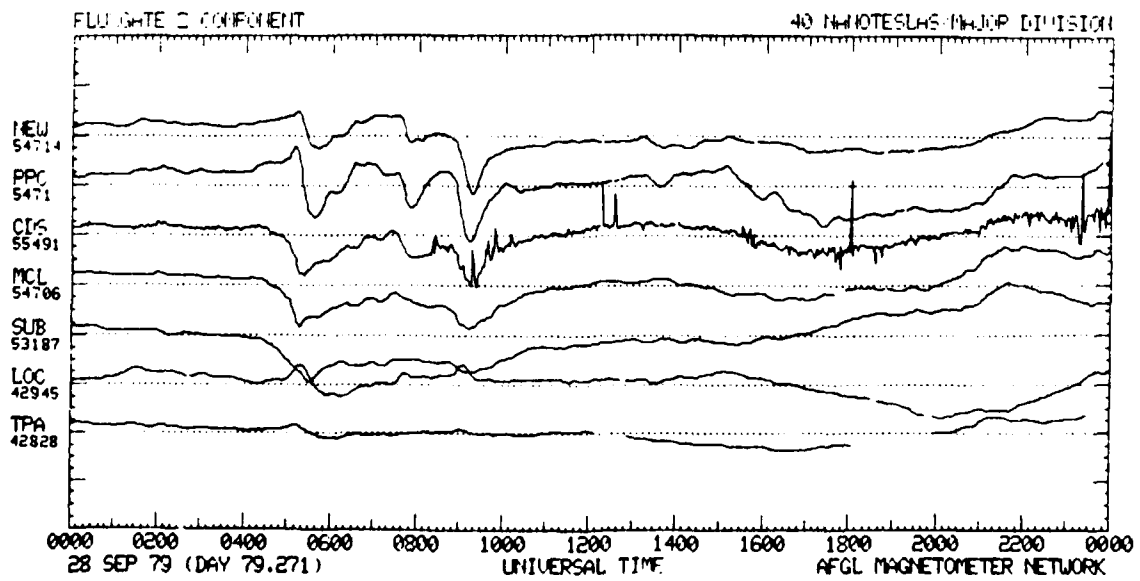
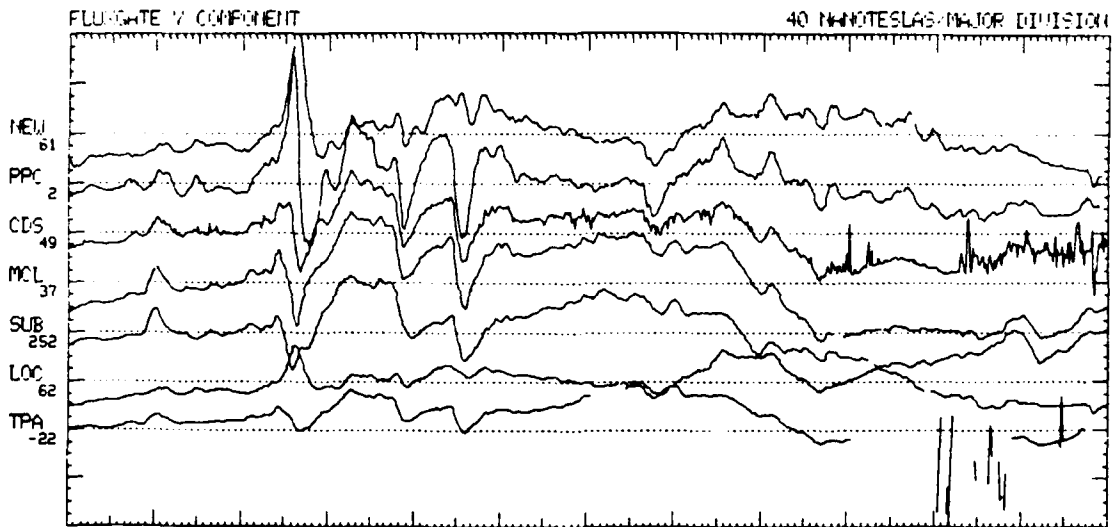
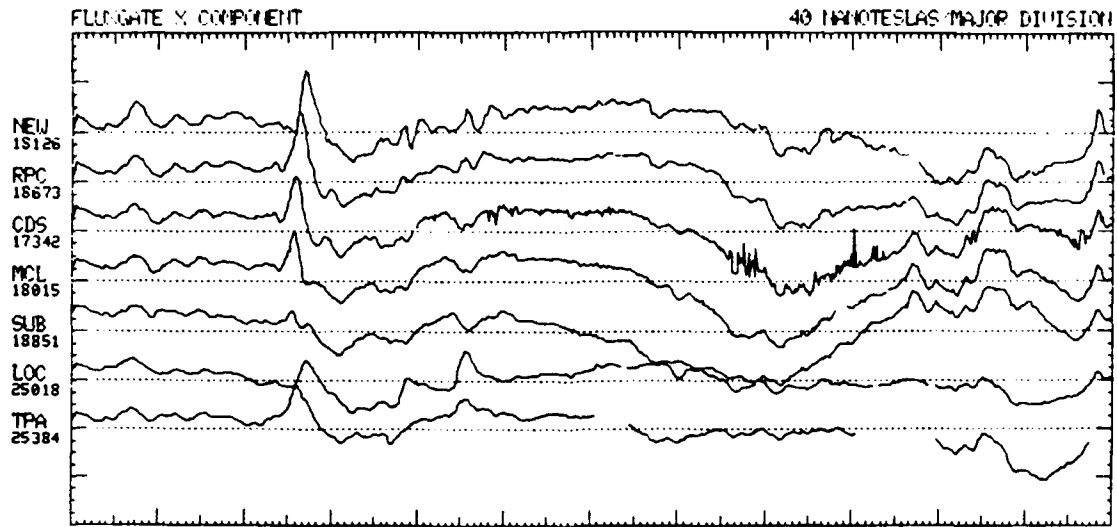
FLIGHTLINE Z COMPONENT

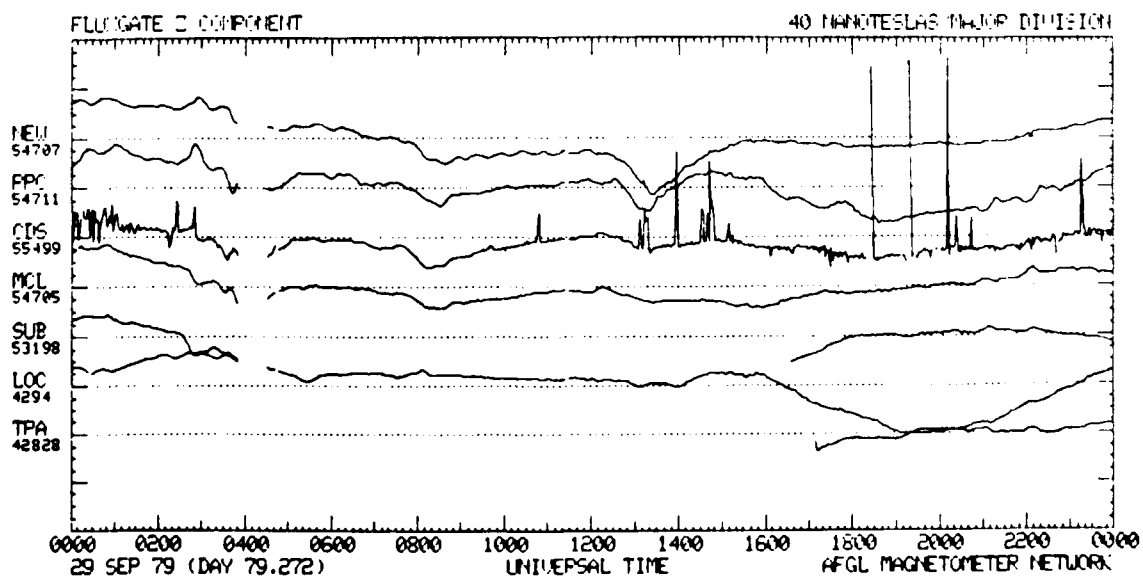
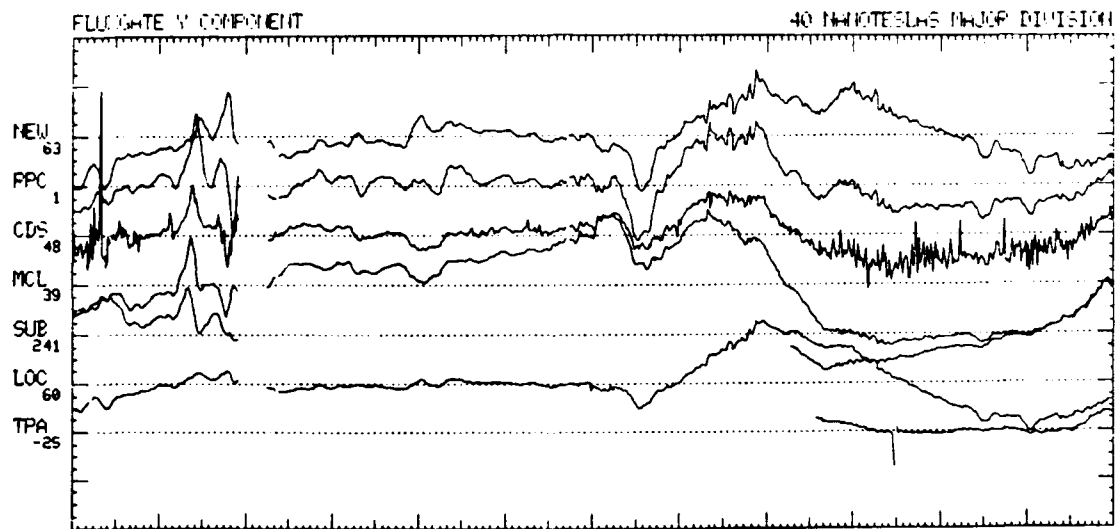
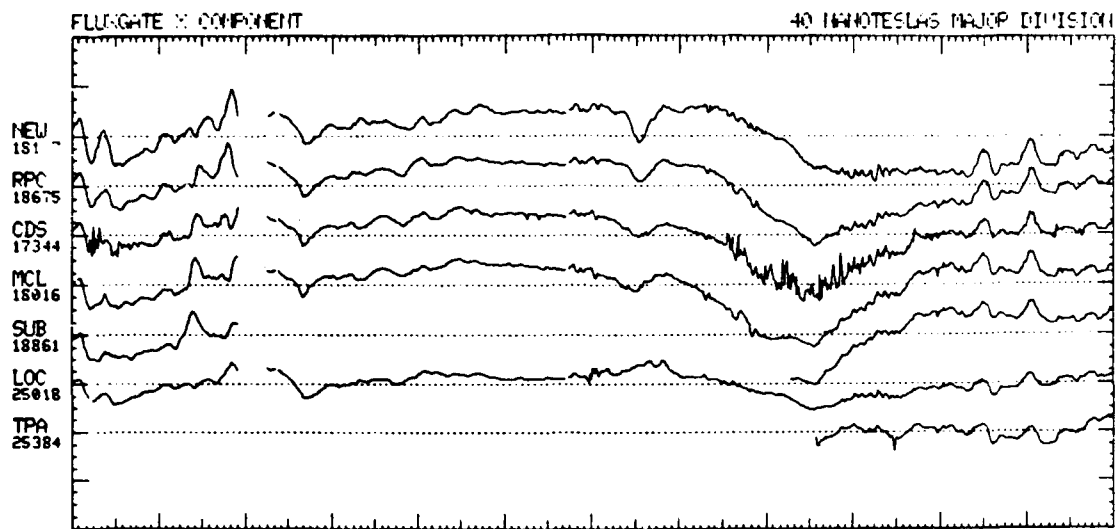
40 NANOTESLAS MAJOR DIVISION

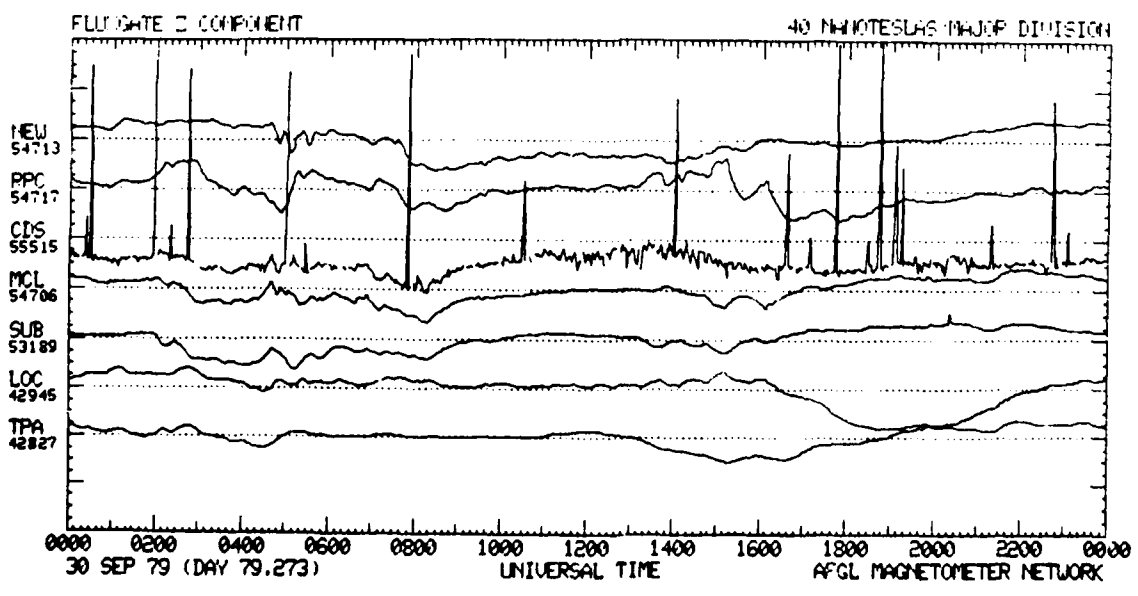
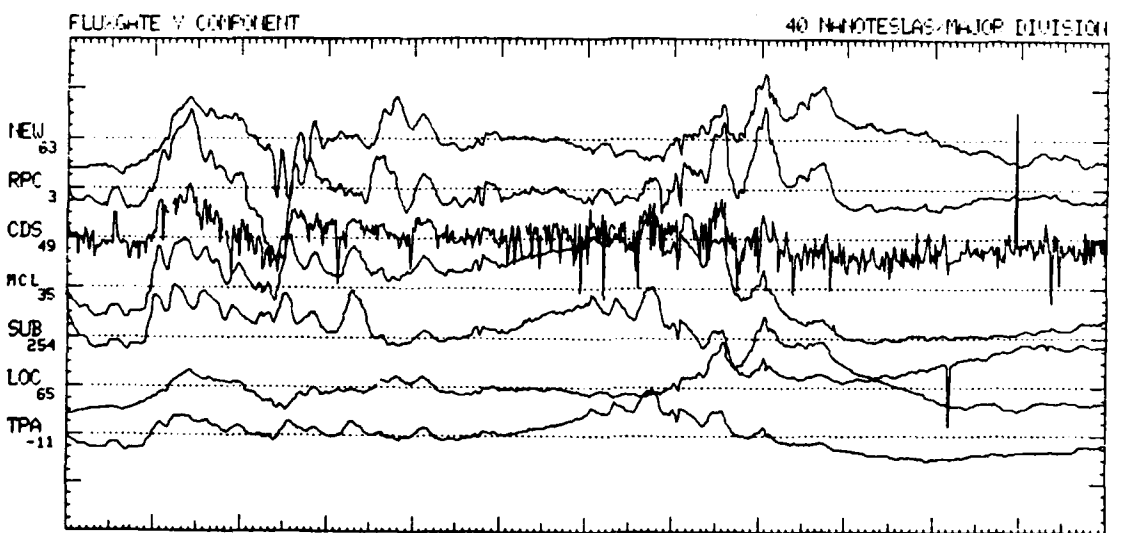
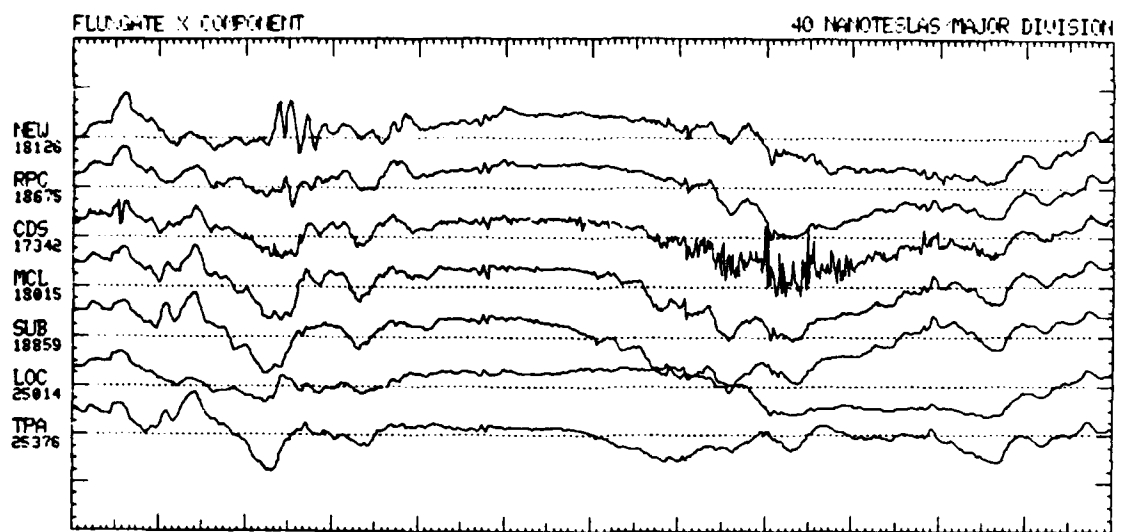


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 SEP 79 (DAY 79.269) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



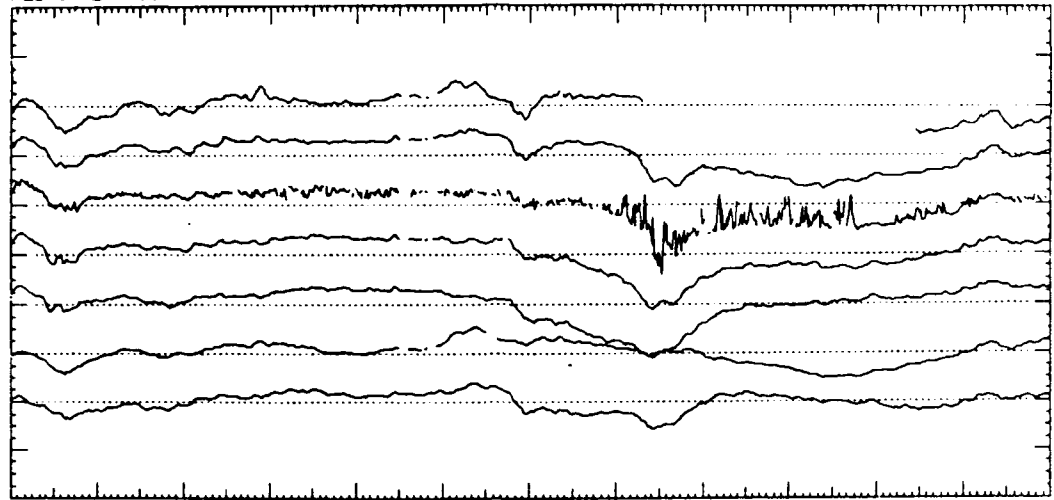






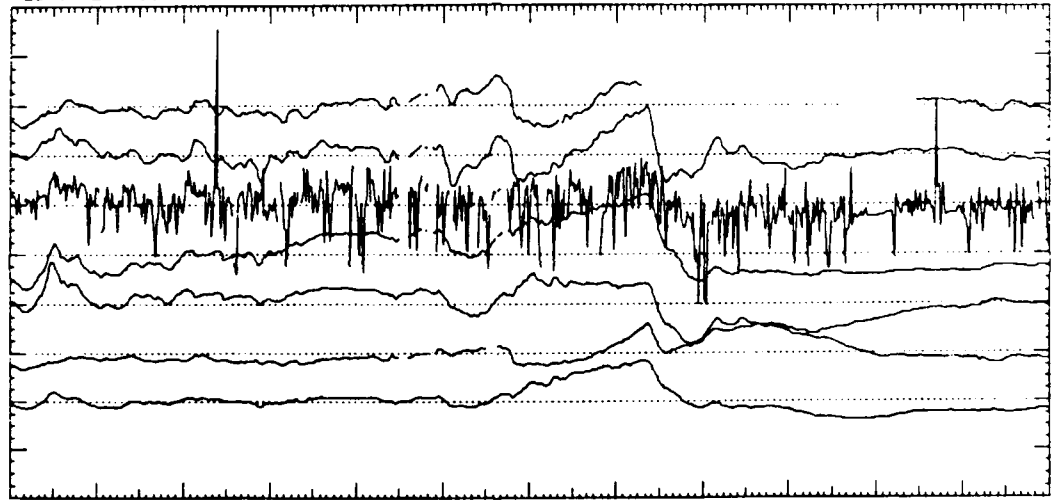
FLIGHTATE Y COMPONENT 40 NANOTESLAS MAJOR DIVISION

NEW
18137
RPC
18678
CDS
17344
MCL
18020
SUB
18864
LOC
25024
TPA
25378



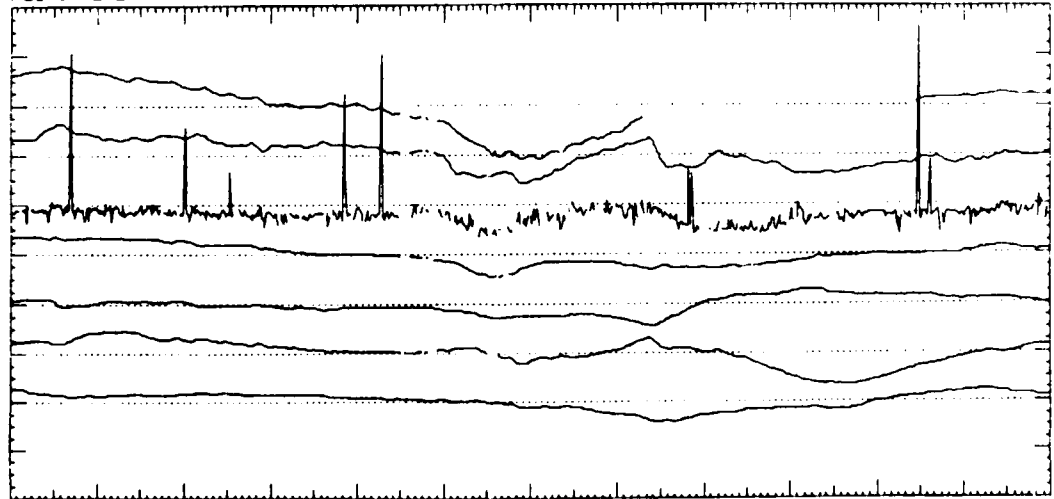
FLIGHTATE Y COMPONENT 40 NANOTESLAS MAJOR DIVISION

NEW
57
RPC
-1
CDS
41
MCL
34
SUB
249
LOC
62
TPA
-14

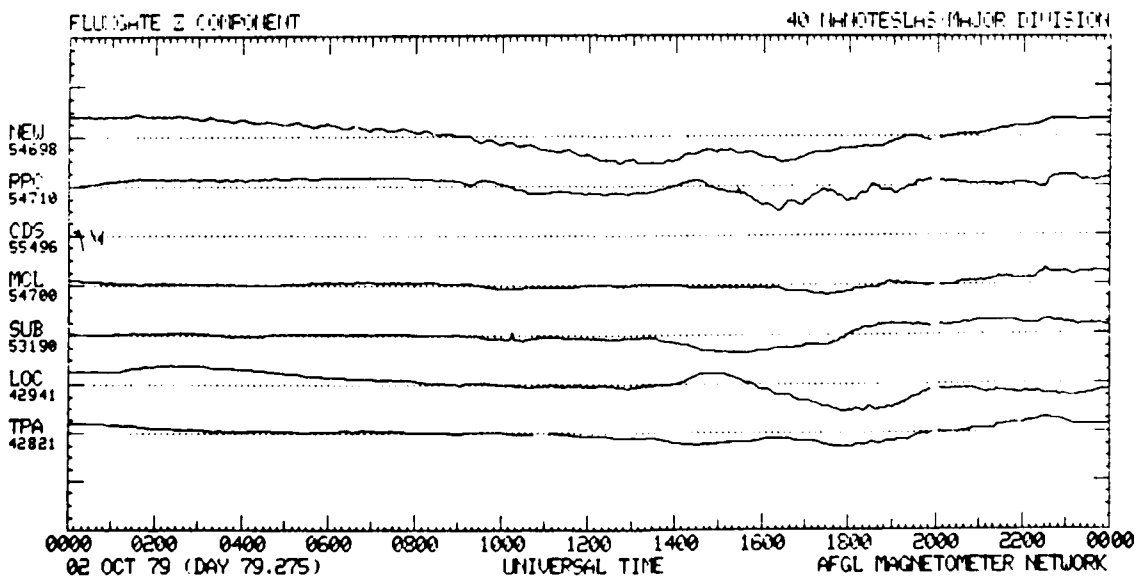
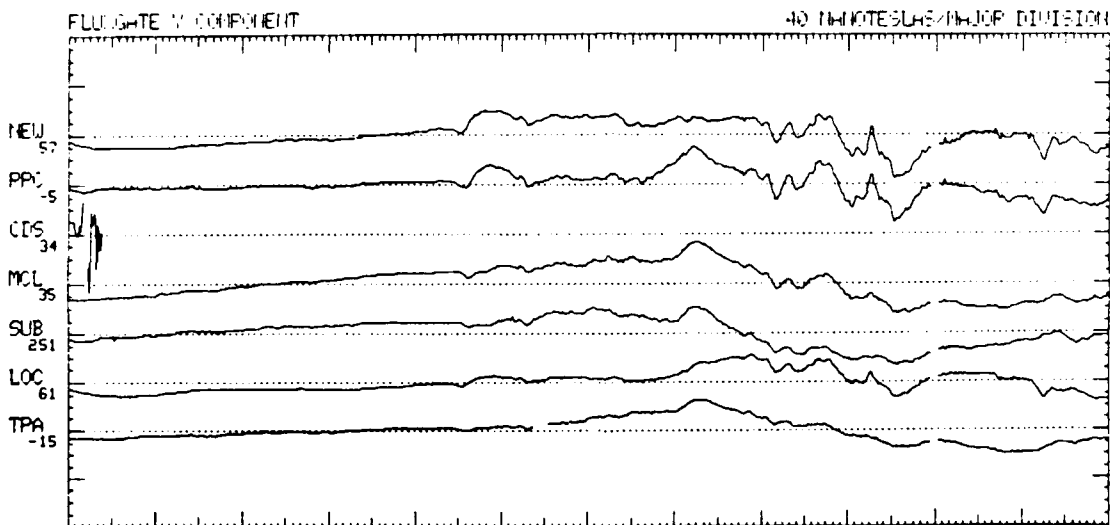
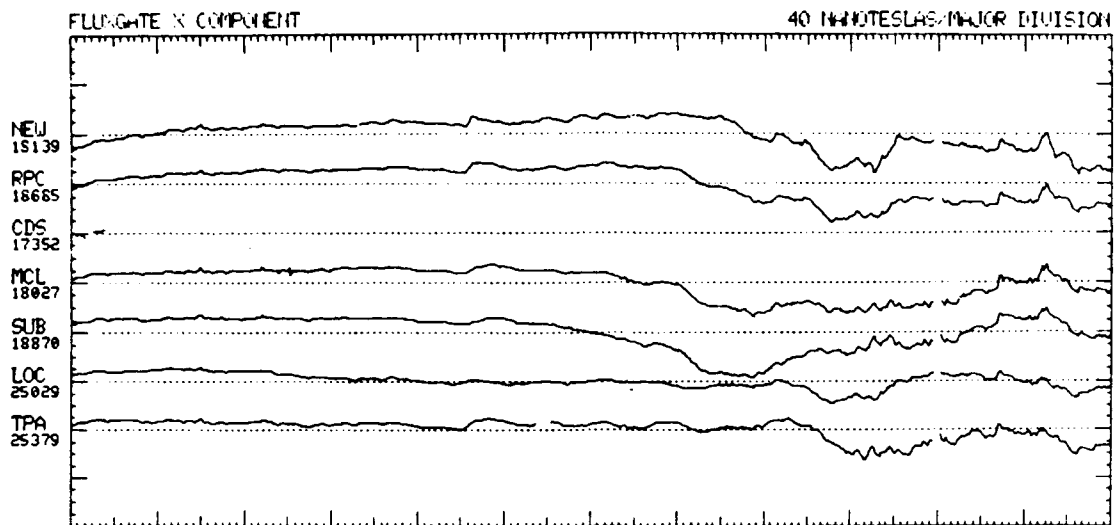


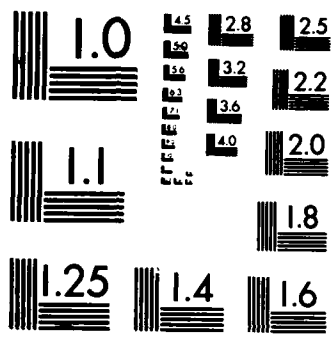
FLIGHTATE Z COMPONENT 40 NANOTESLAS MAJOR DIVISION

NEW
54706
RPC
54708
CDS
55506
MCL
54702
SUB
53192
LOC
42945
TPA
42825

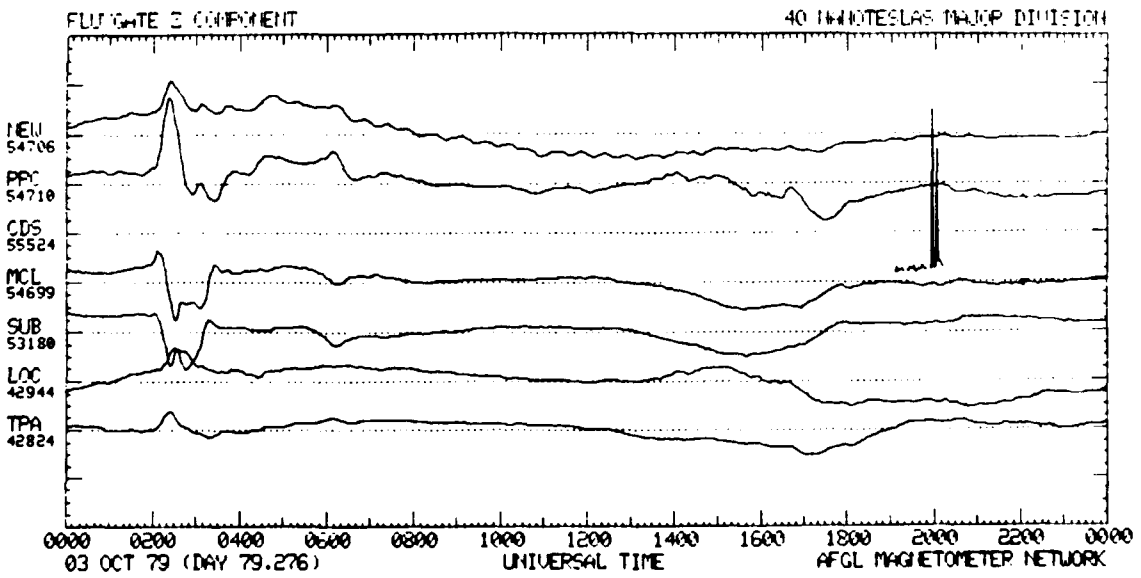
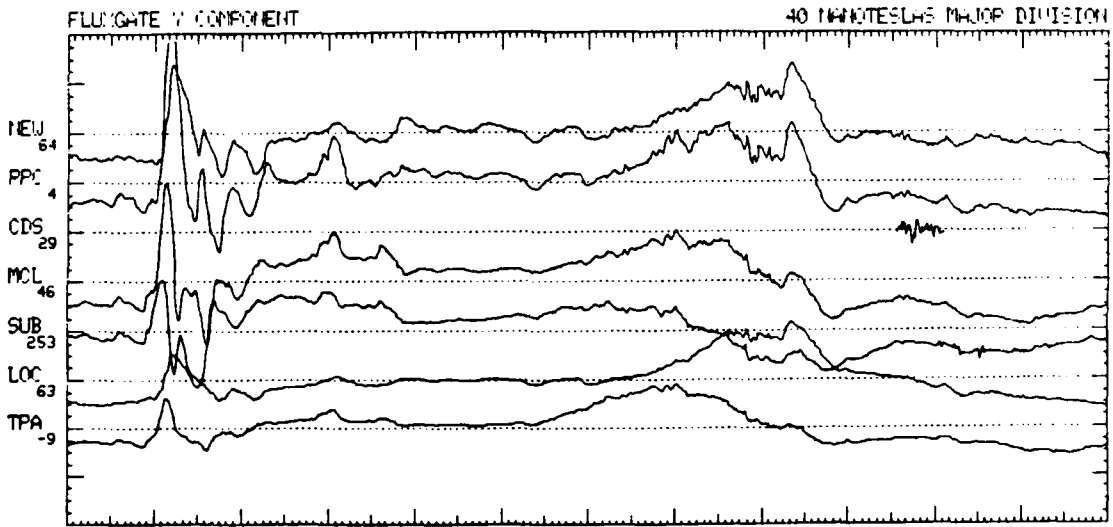
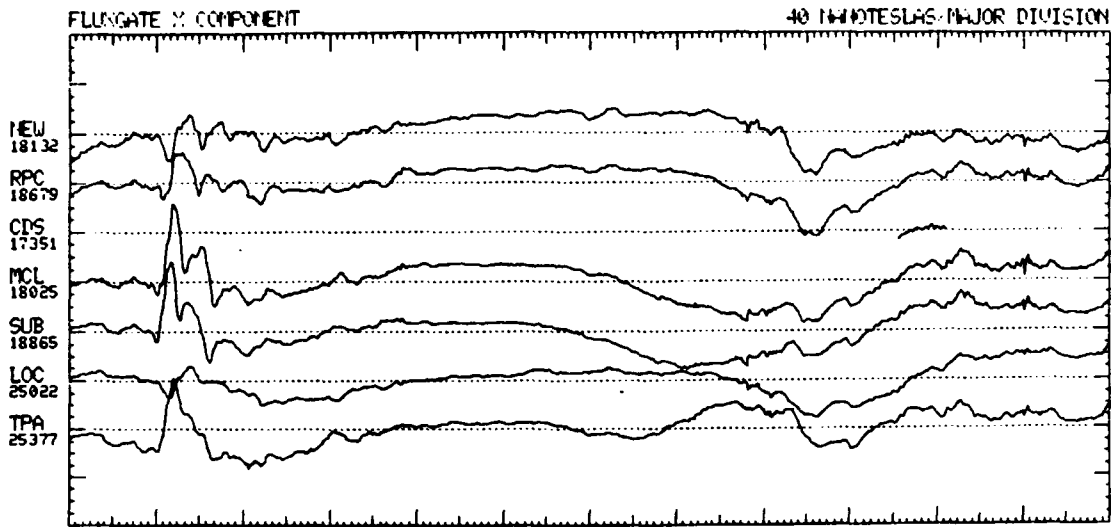


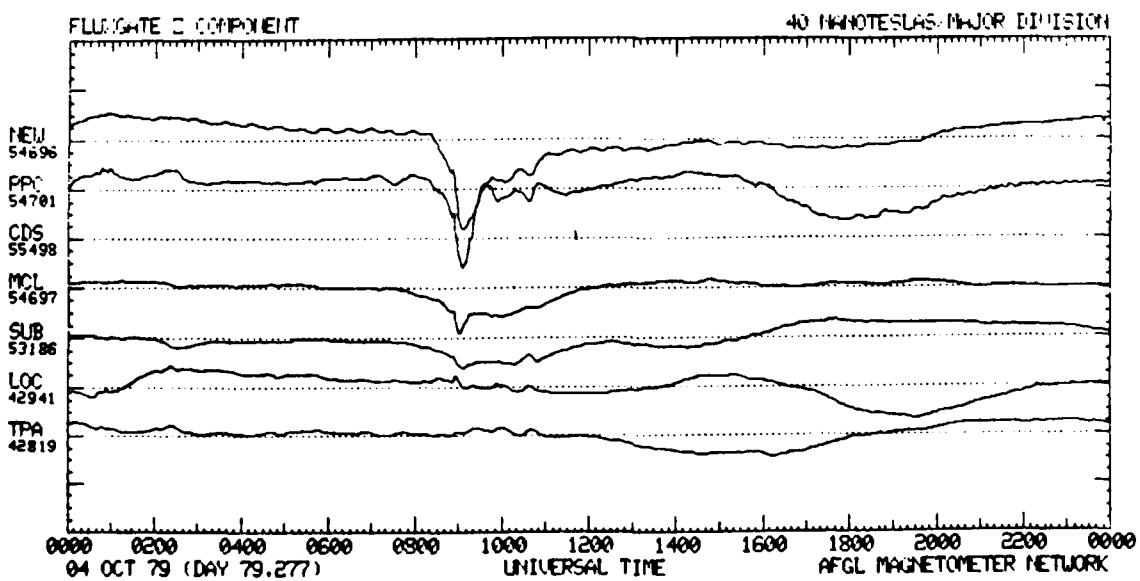
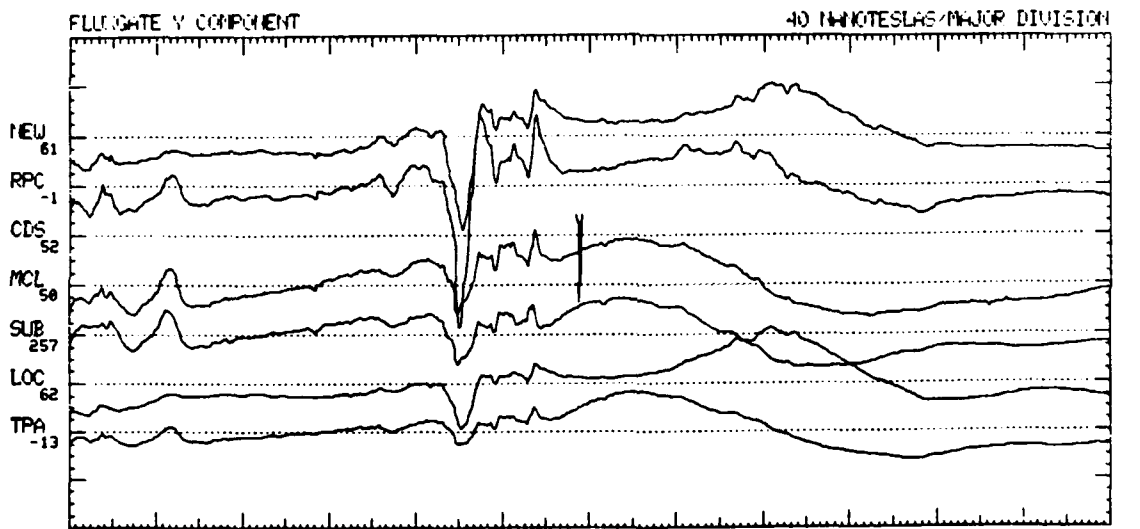
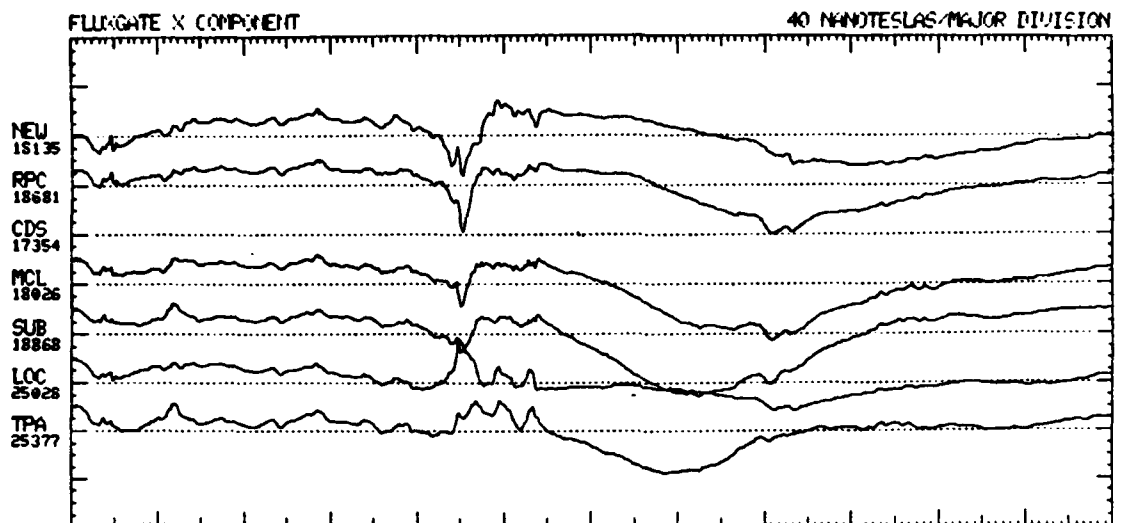
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
01 OCT 79 (DAY 79.274) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

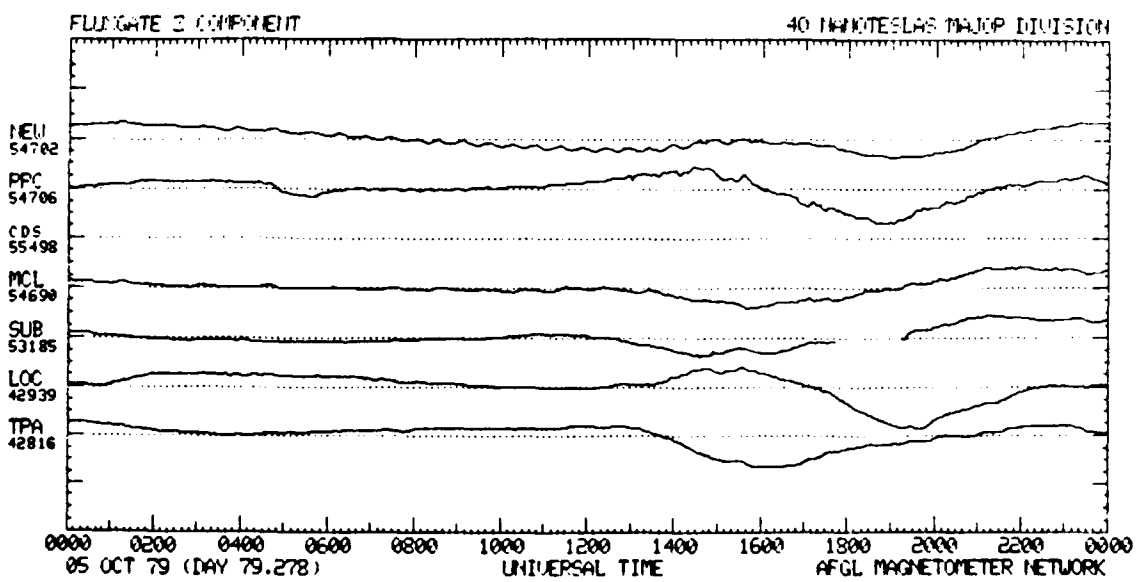
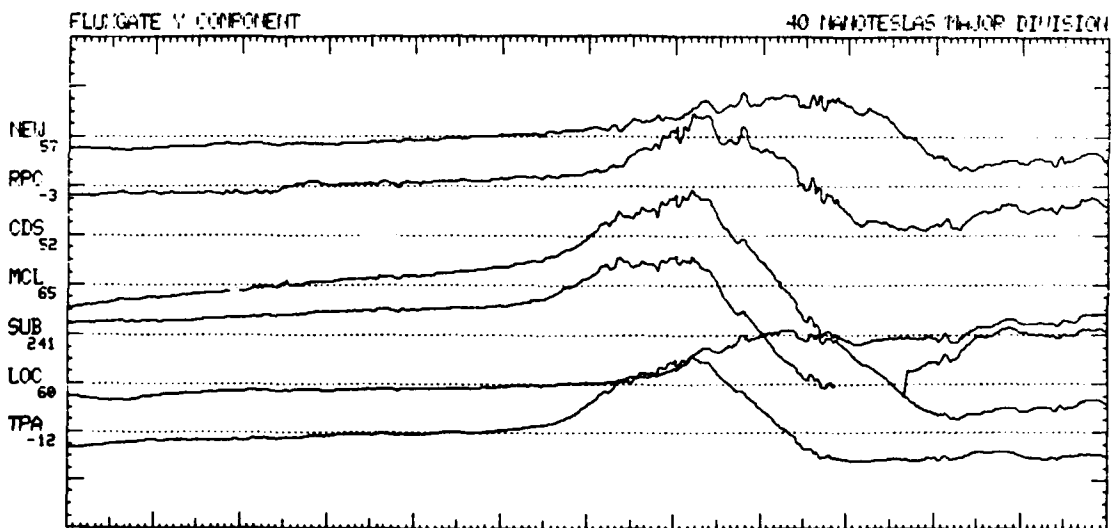
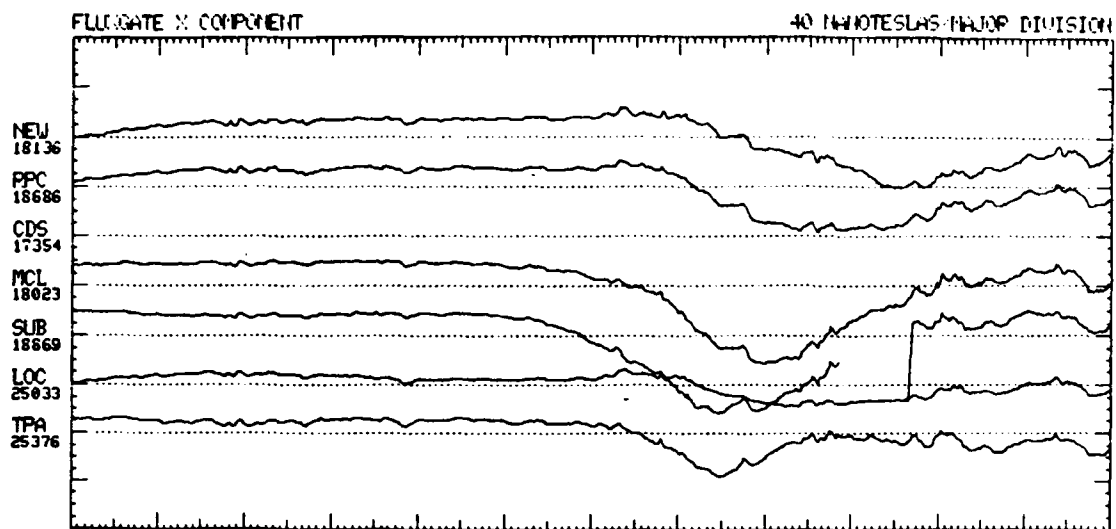


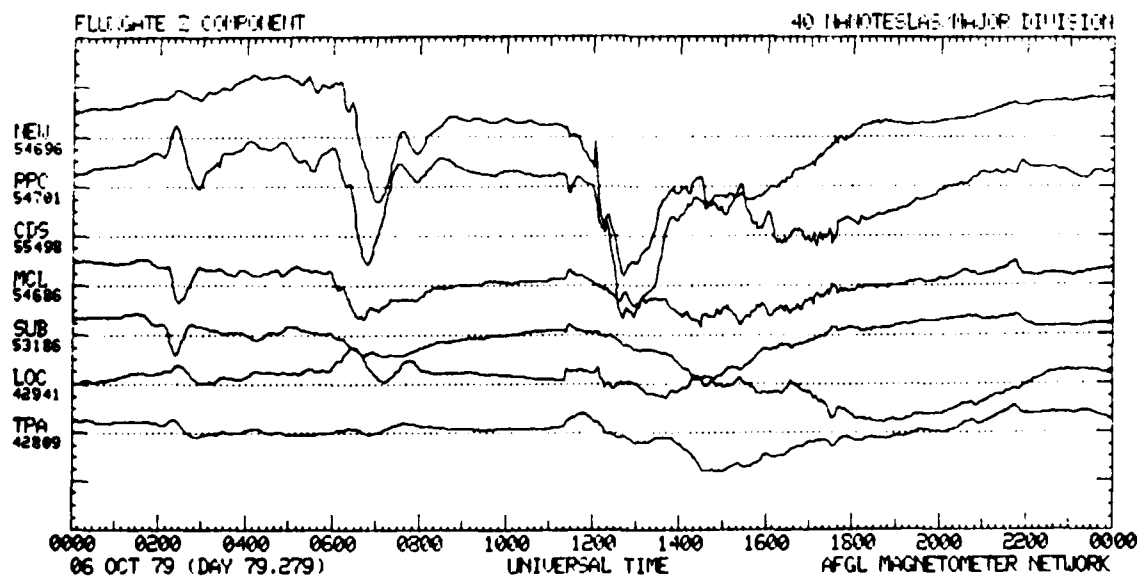
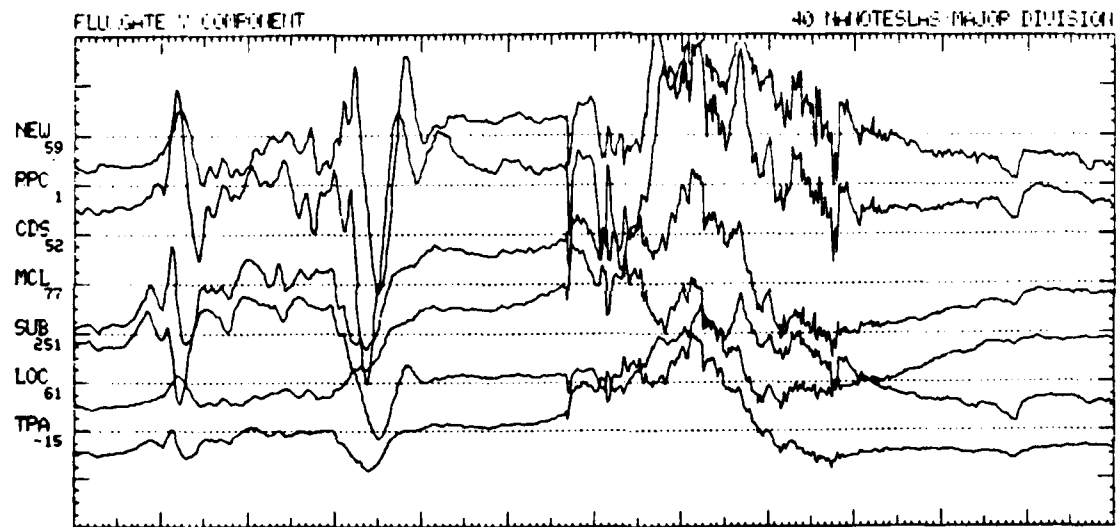
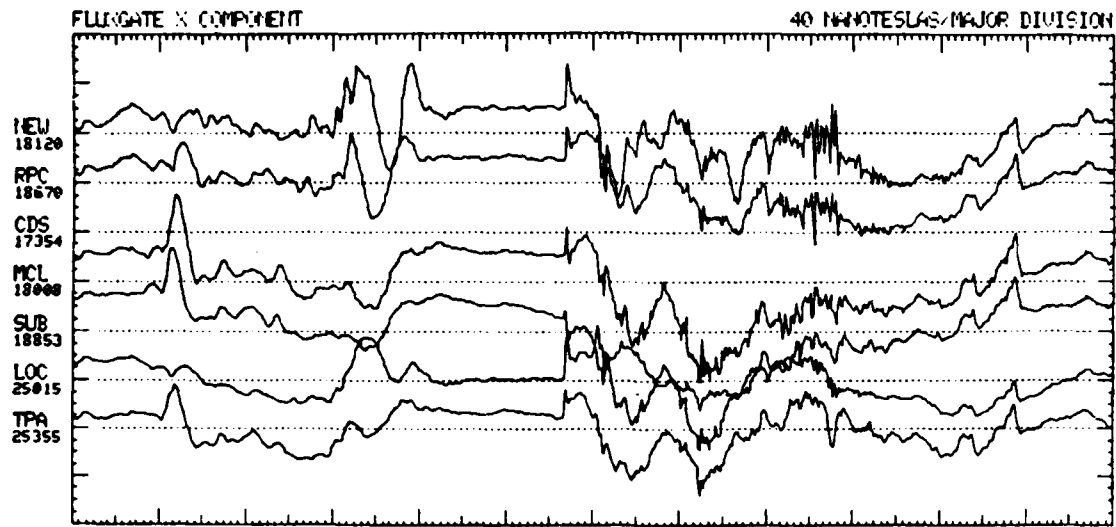


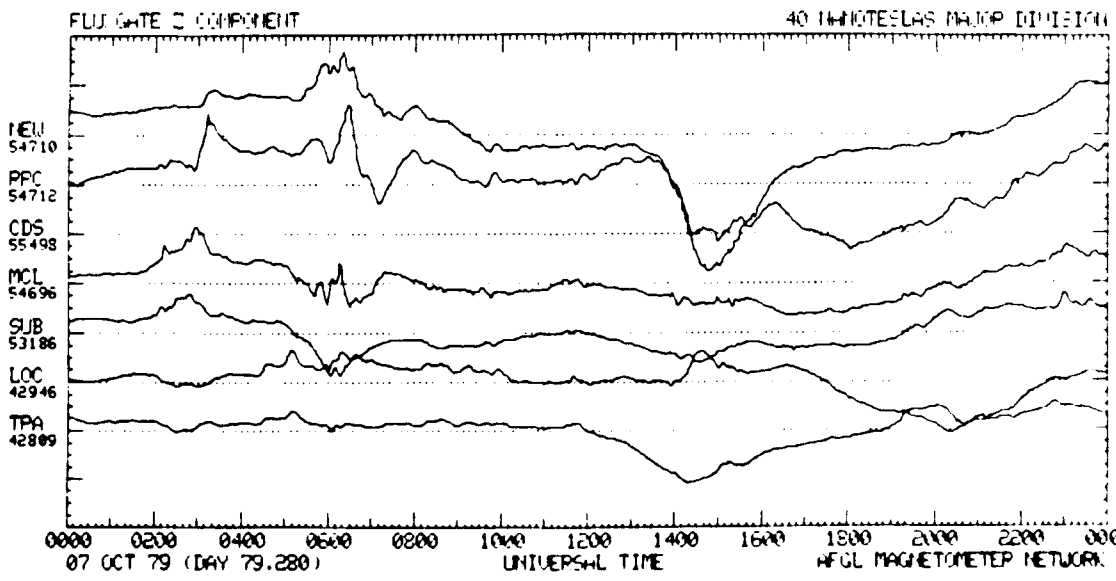
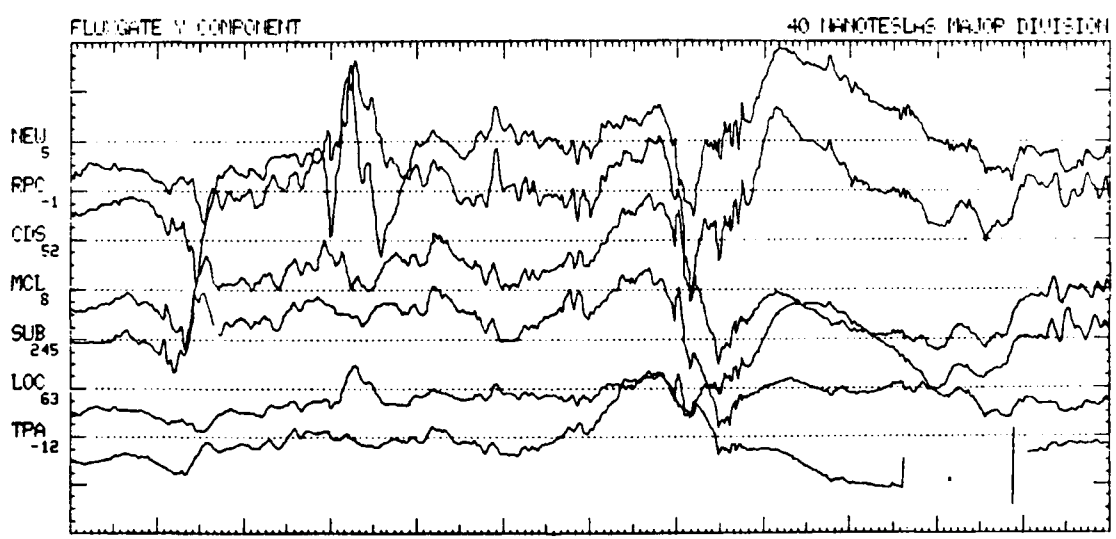
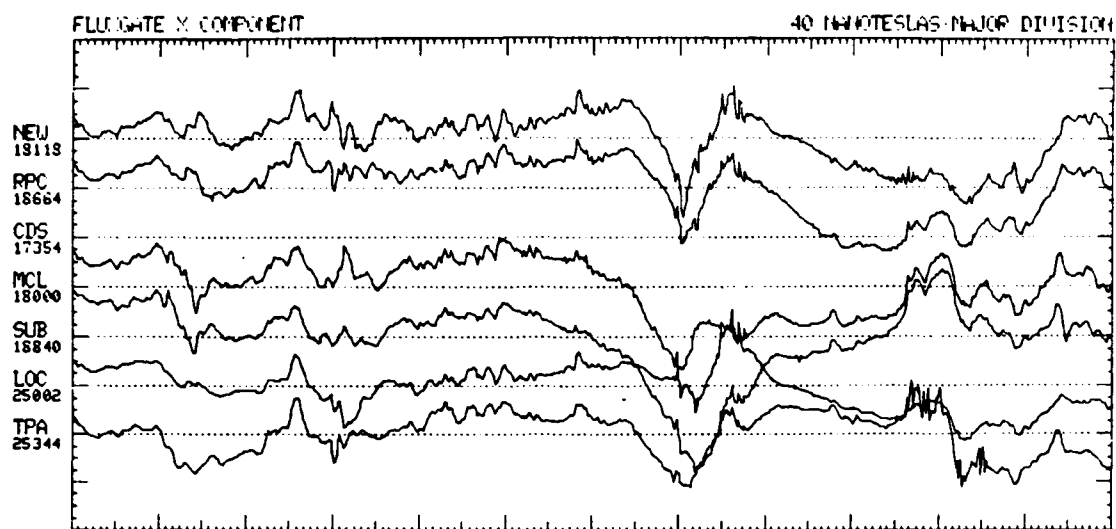
XEROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

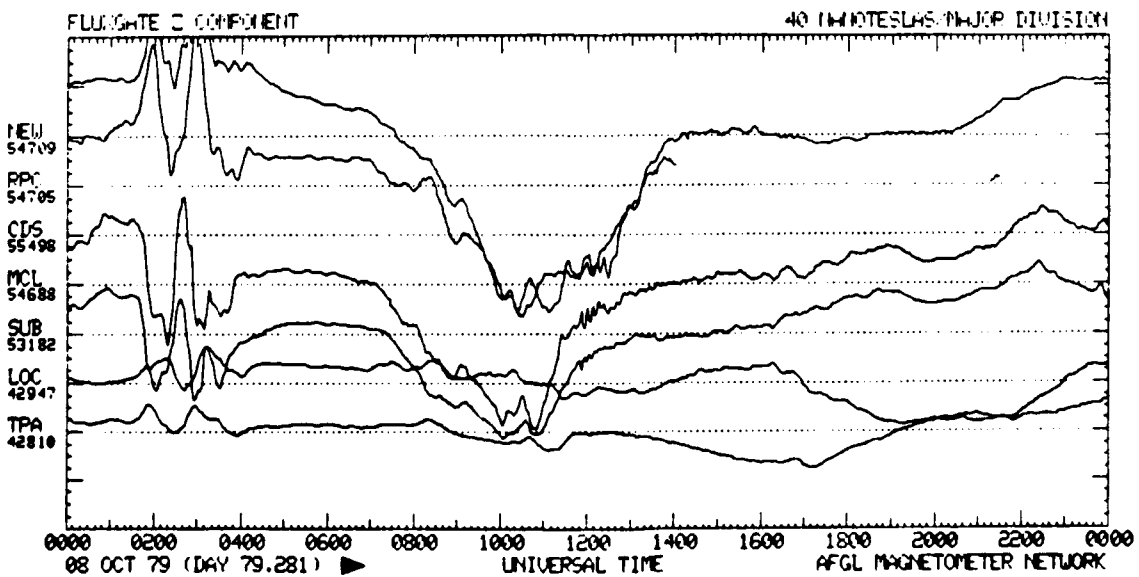
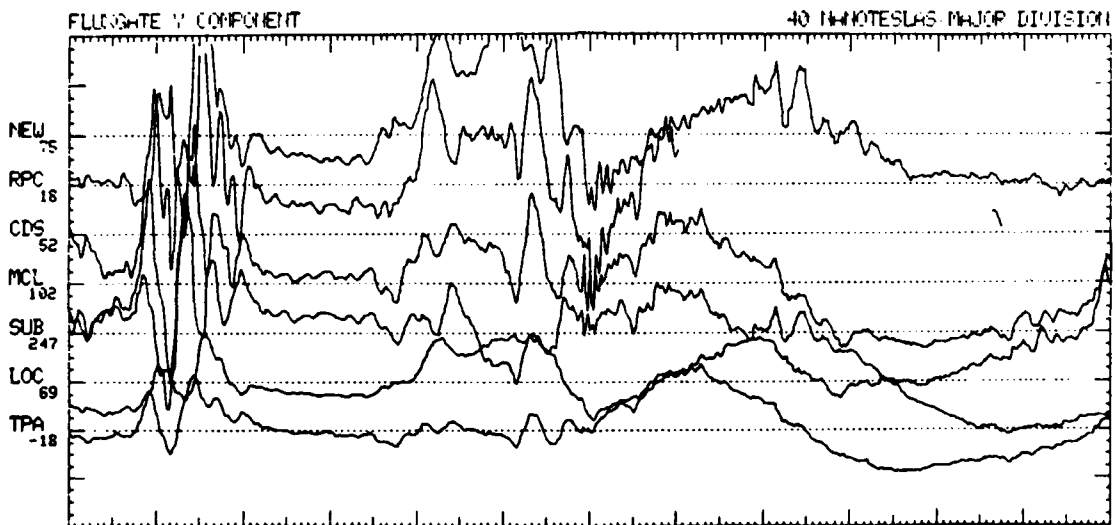
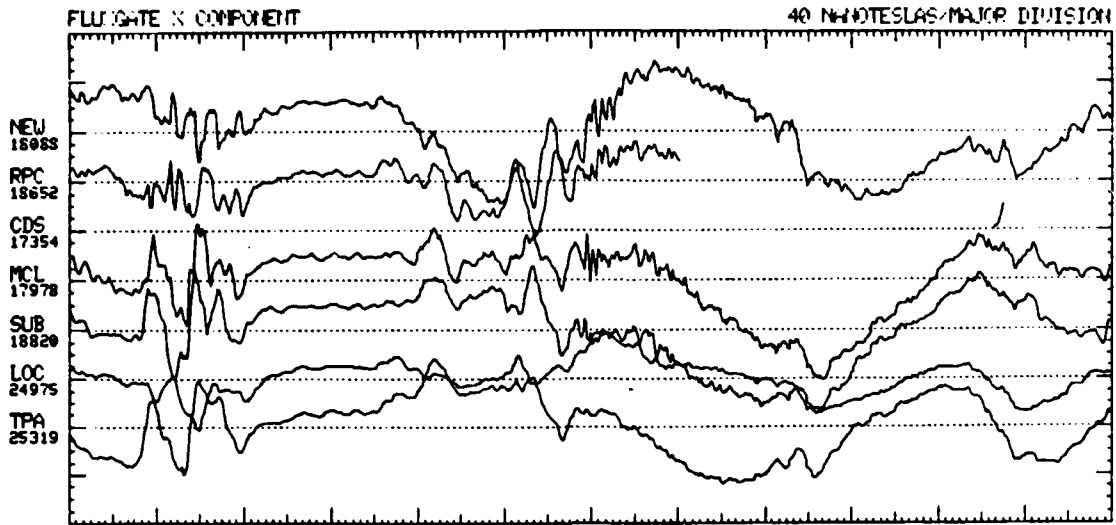


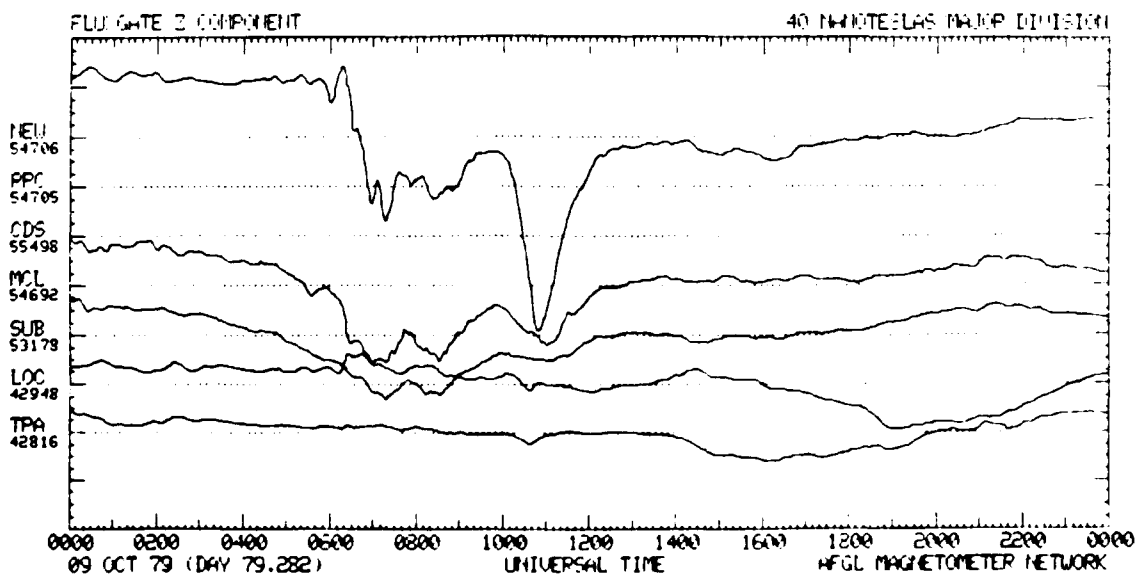
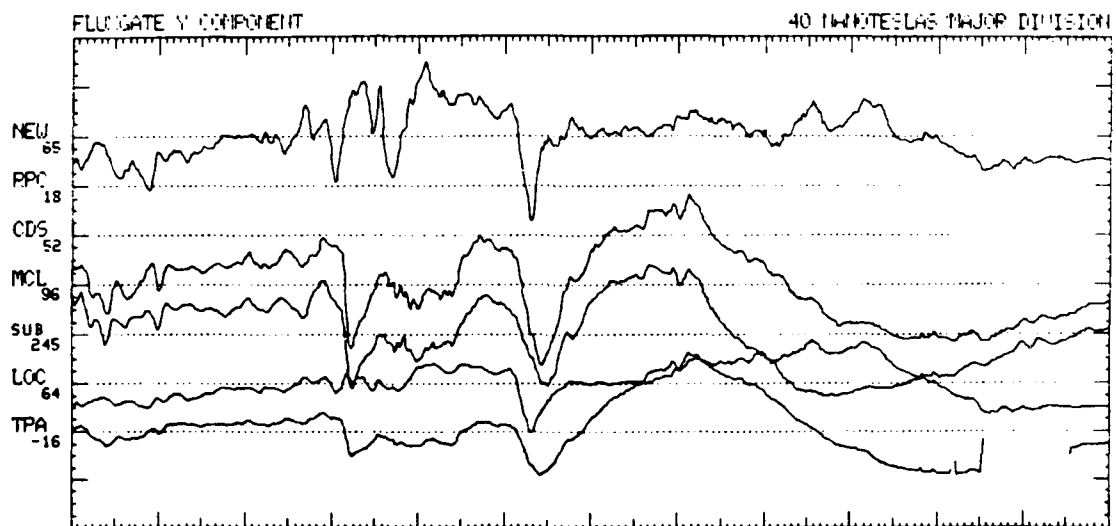
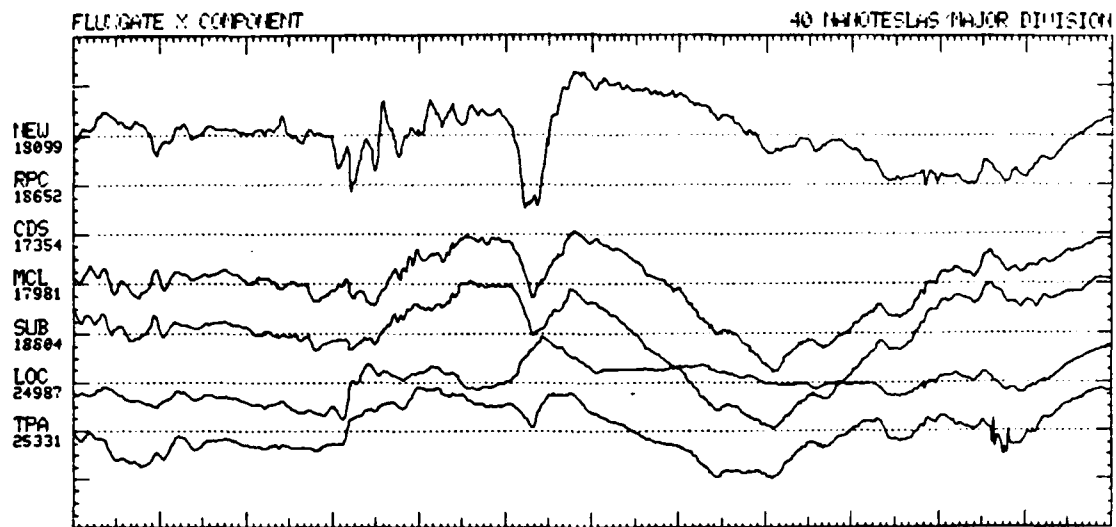


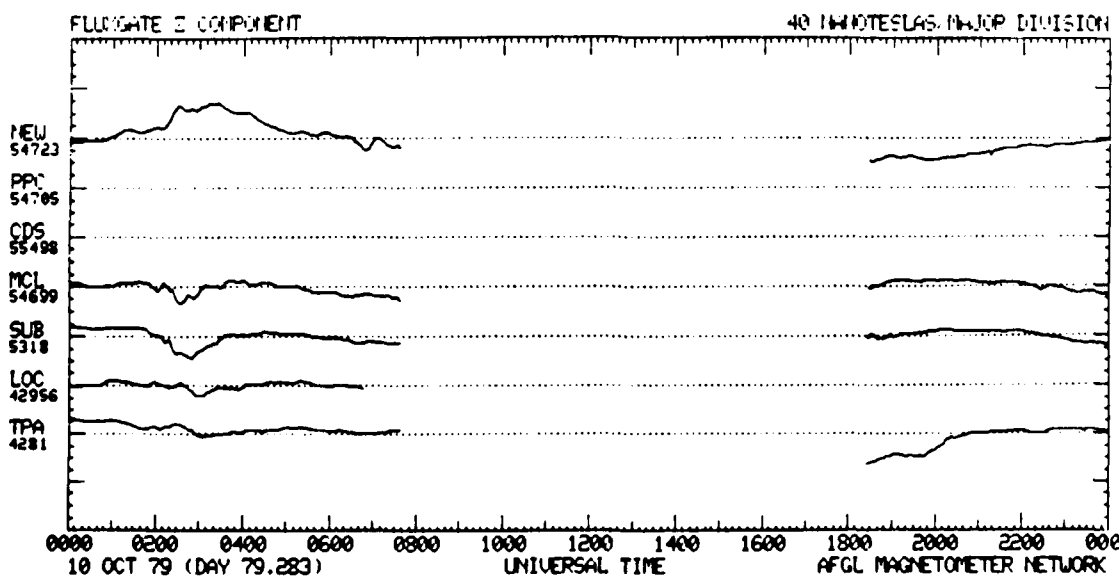
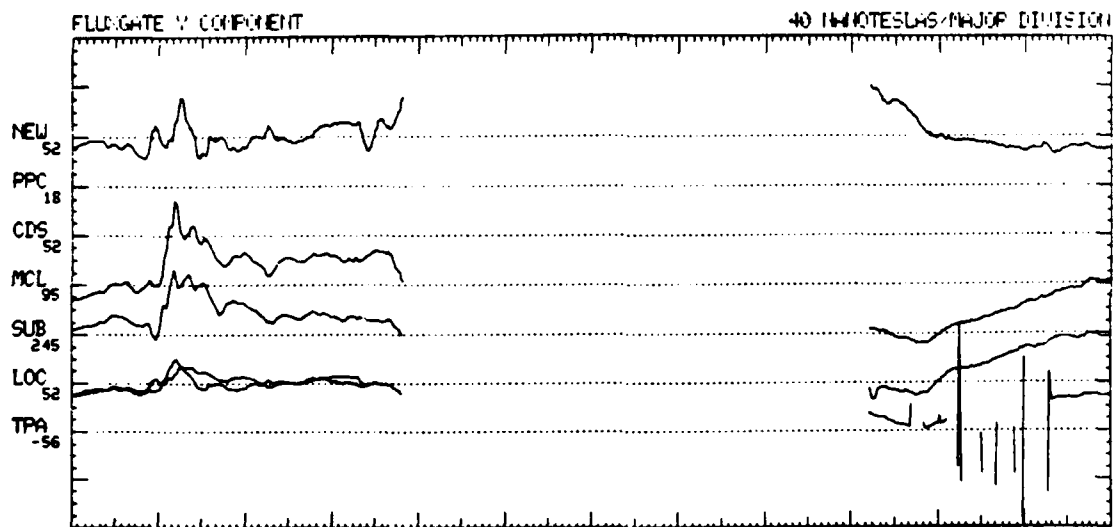
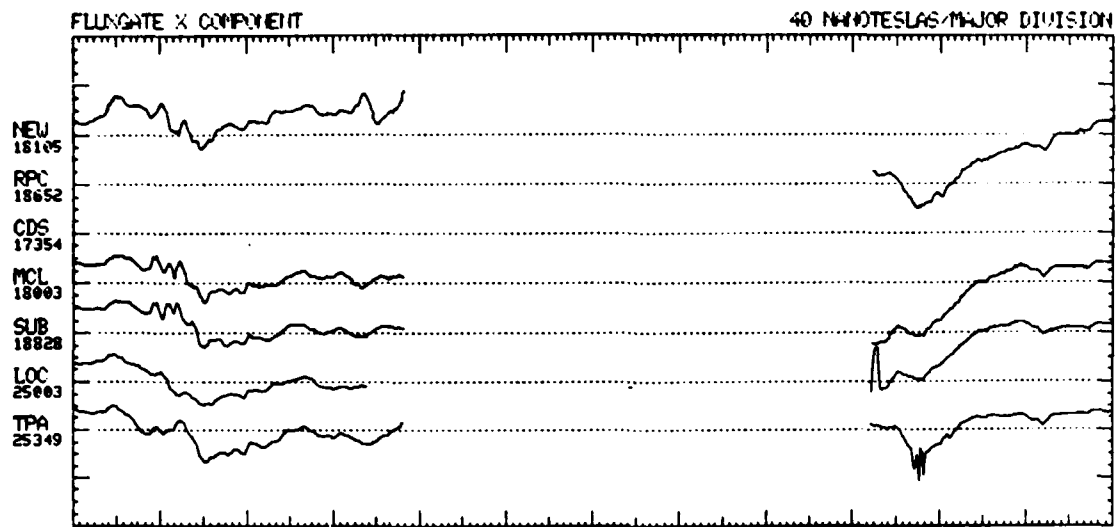






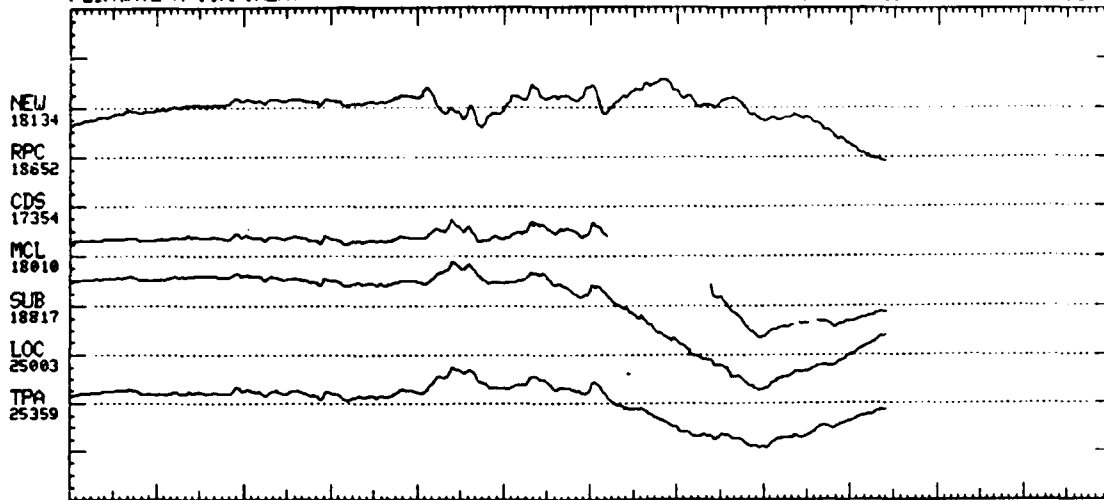






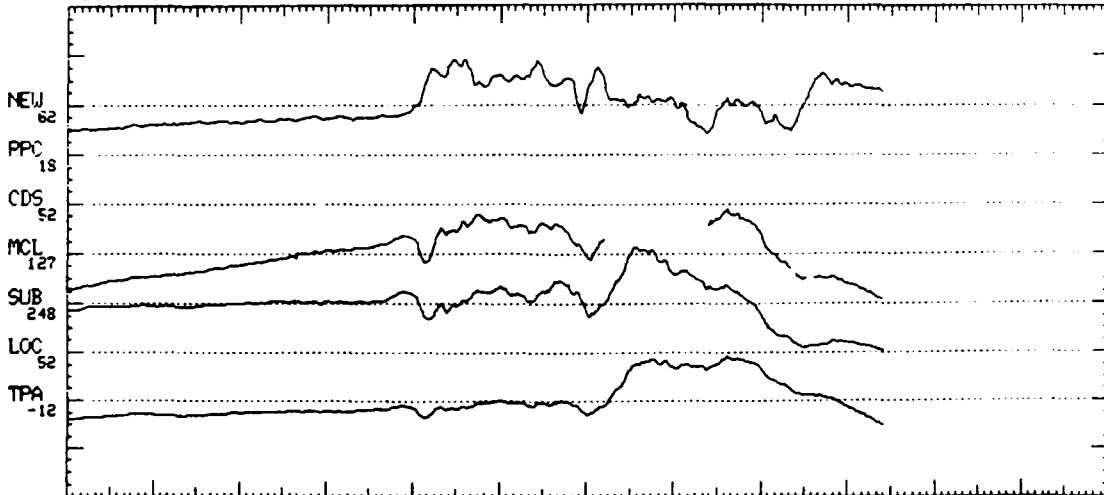
FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



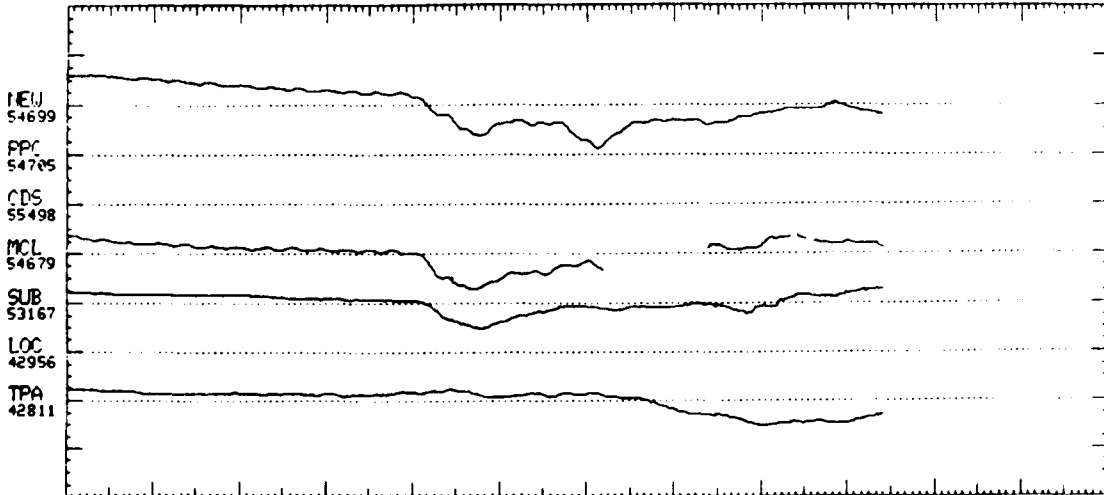
FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

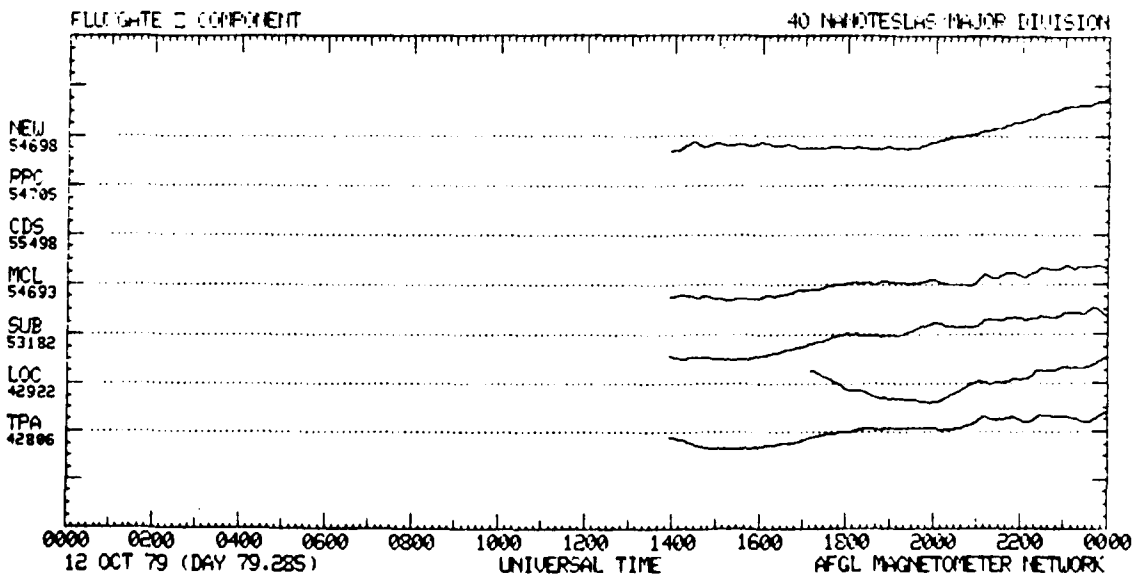
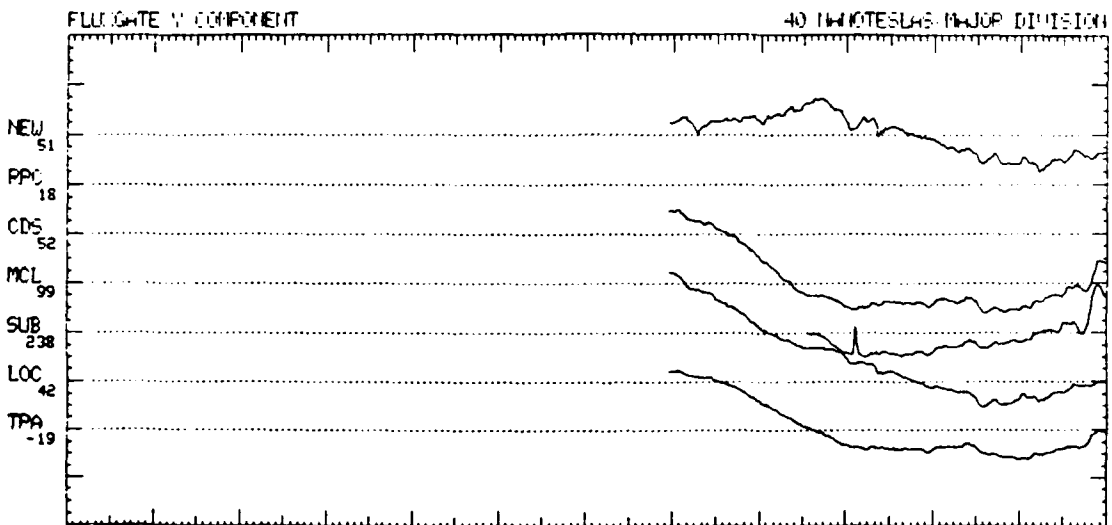
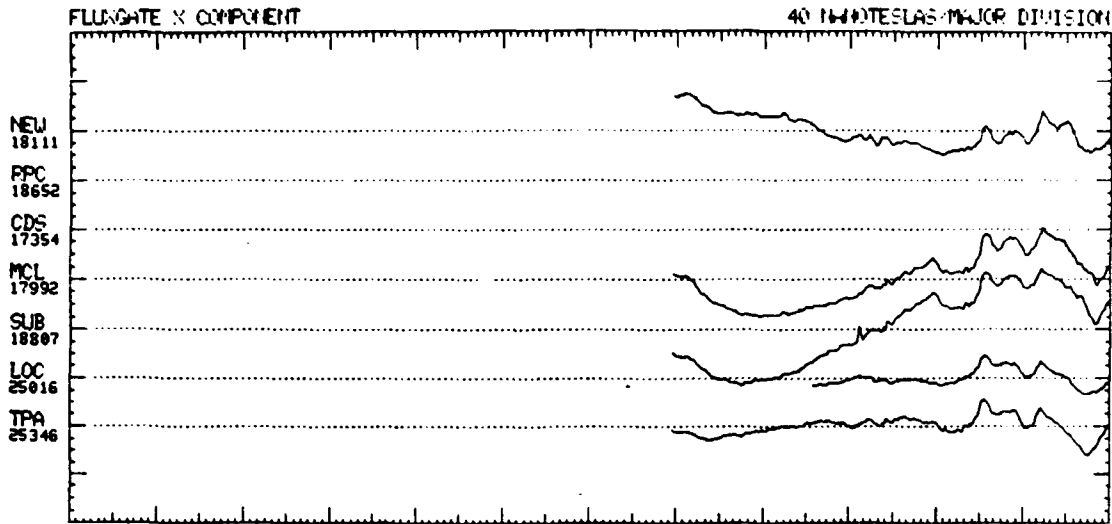


FLIGHTGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

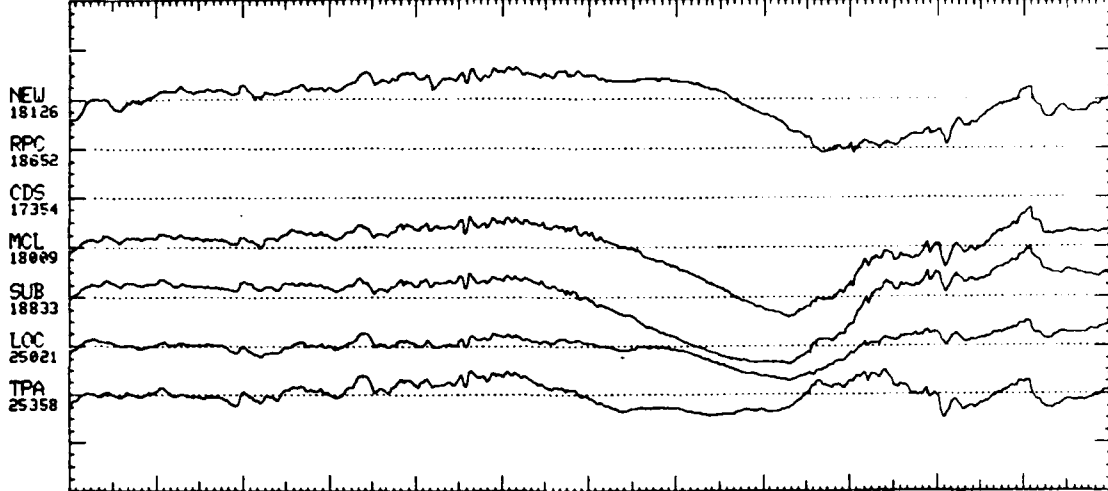


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 OCT 79 (DAY 79.284) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



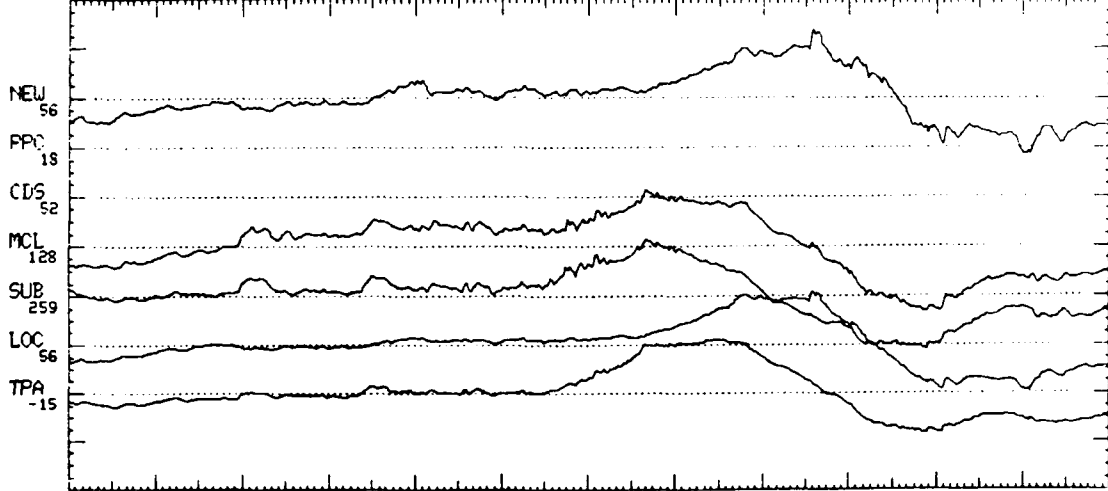
FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



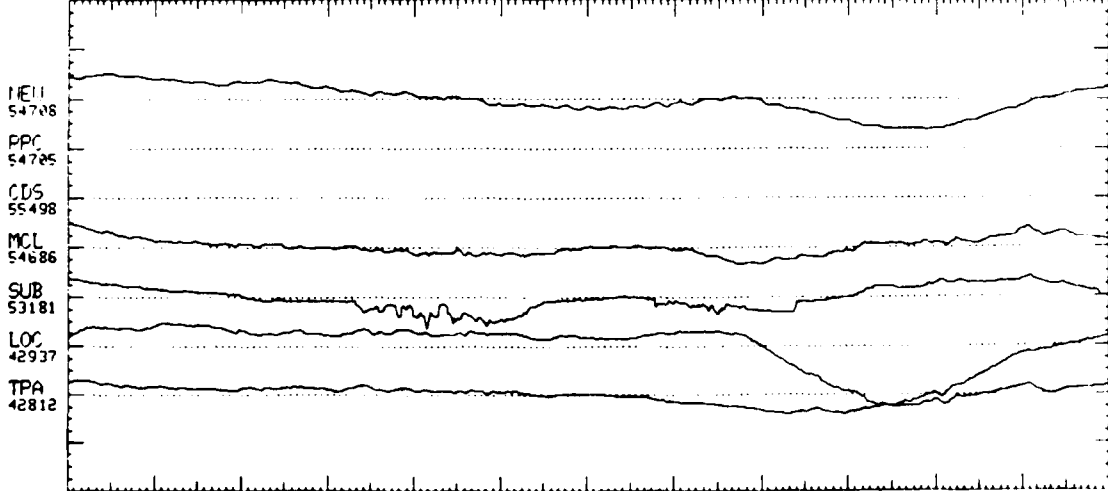
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

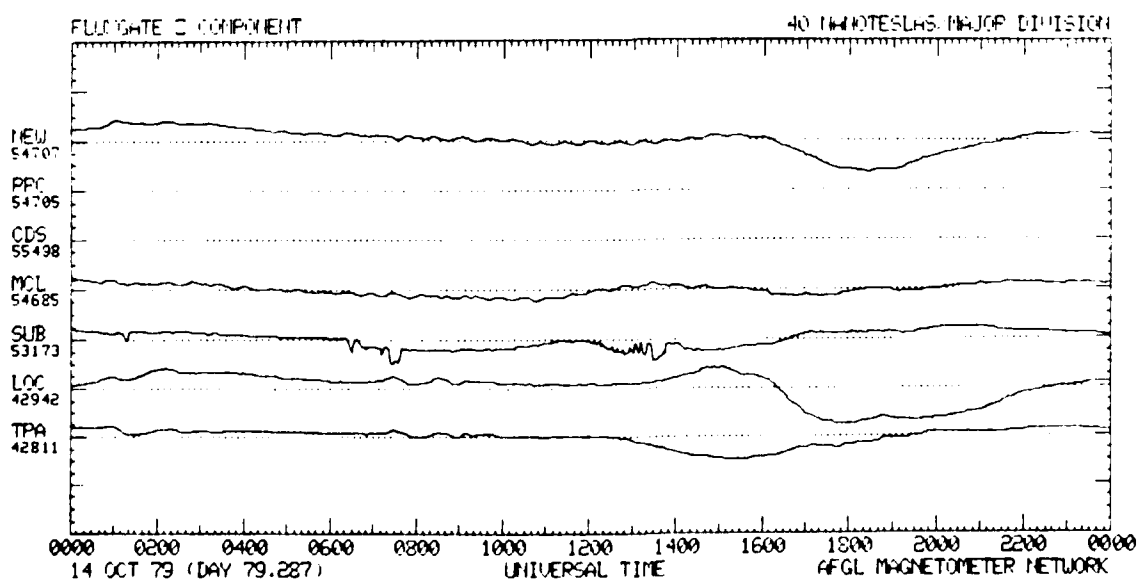
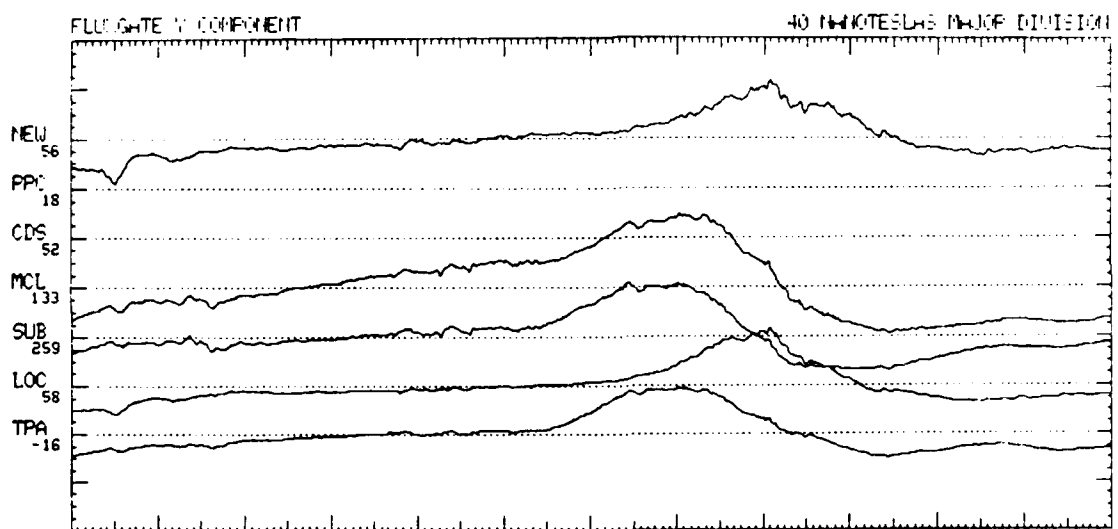
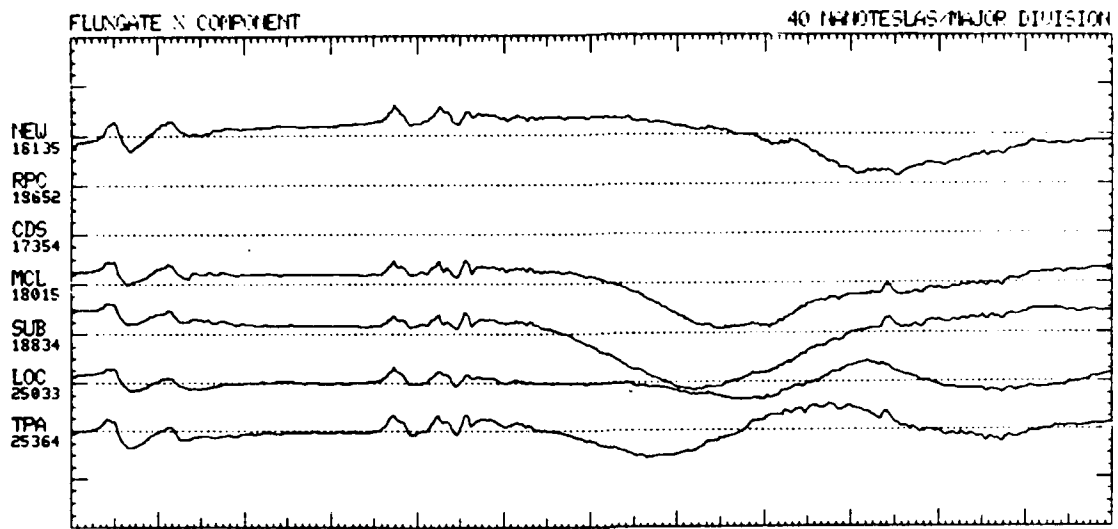


FLIGHTLINE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

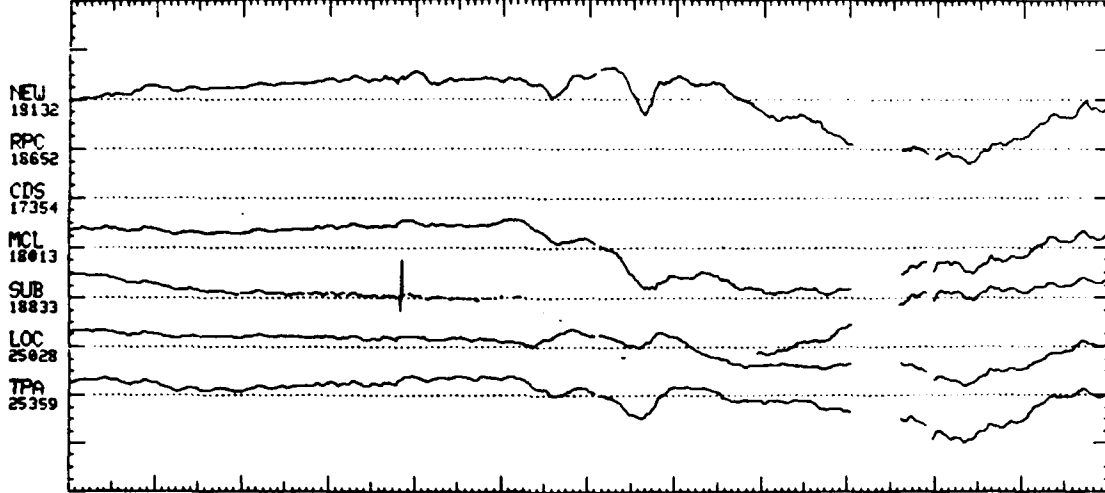


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 OCT 79 (DAY 79.286) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



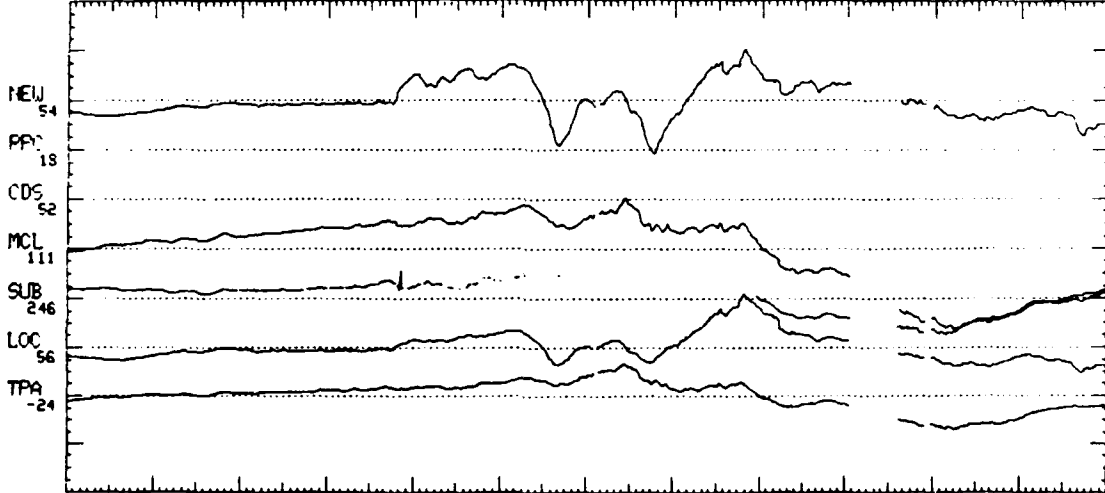
FLIGHTGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION



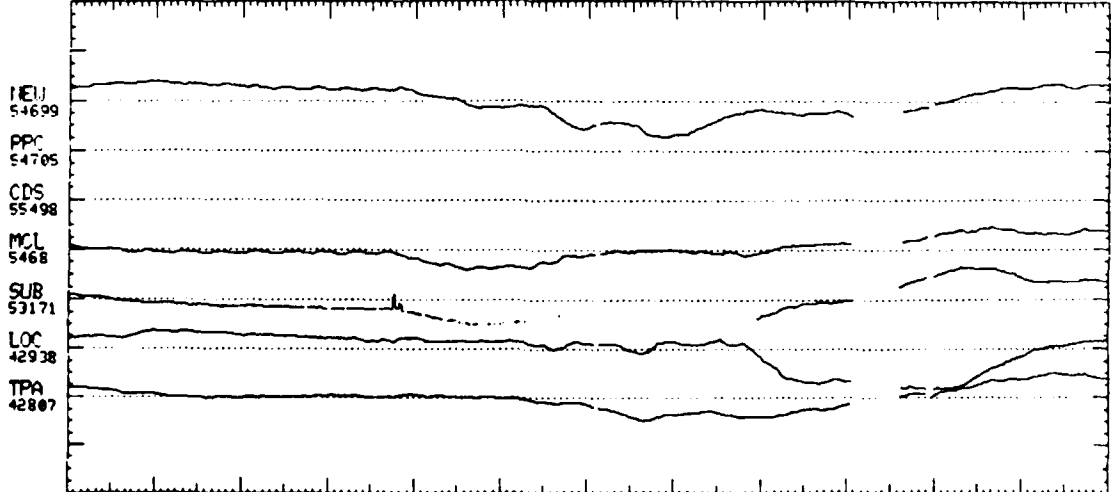
FLIGHTGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION



FLIGHTGATE Z COMPONENT

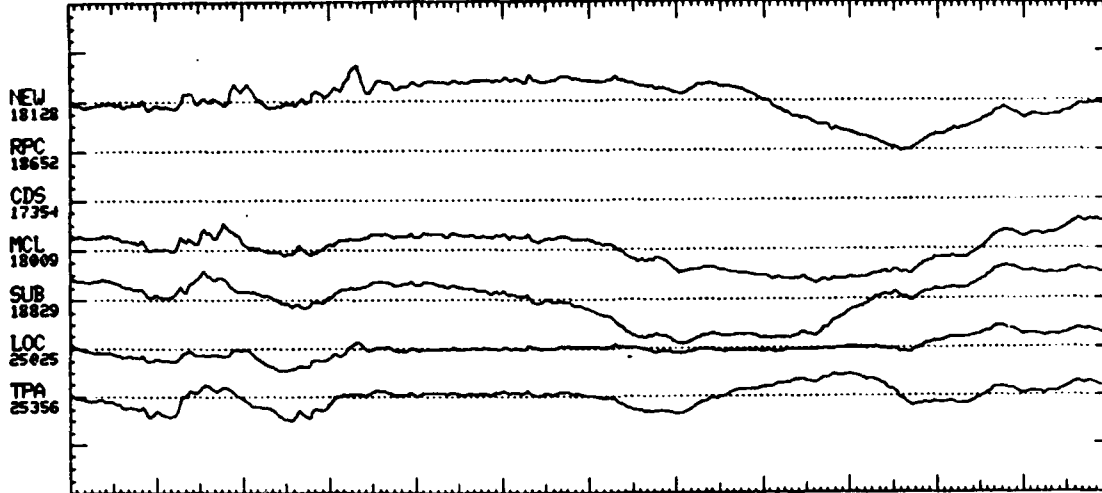
40 NANOTESLAS MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 OCT 79 (DAY 79.288) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

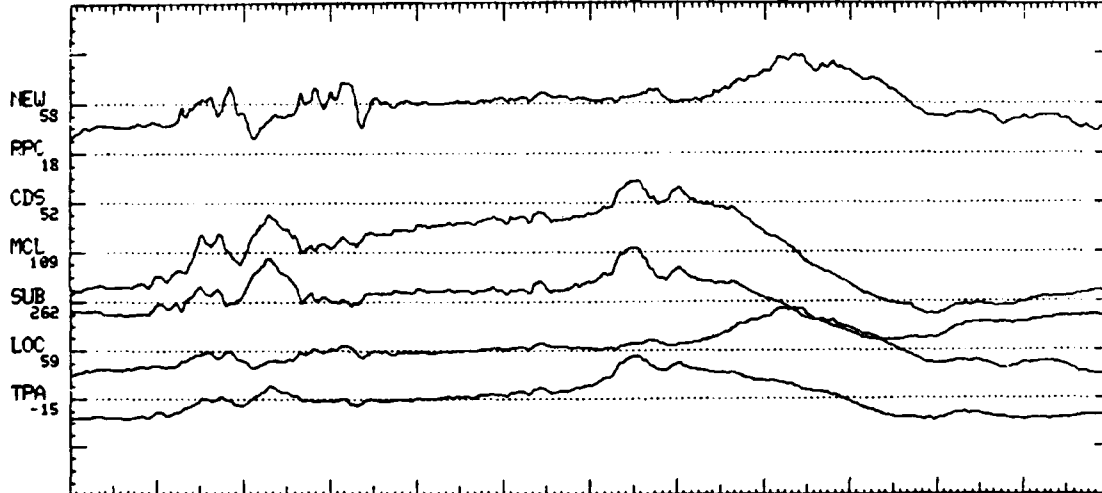
FLIGHTGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



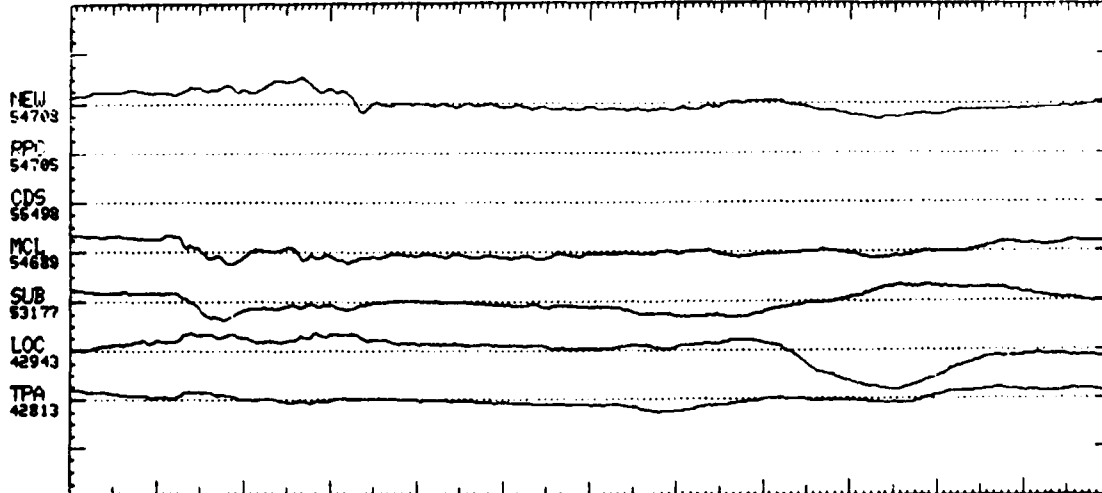
FLIGHTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

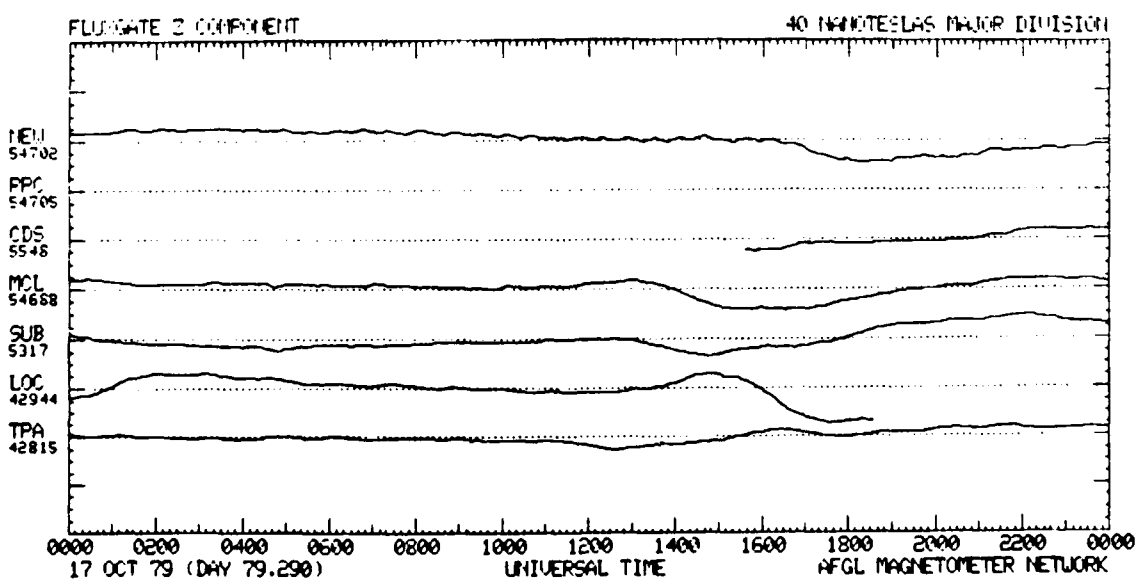
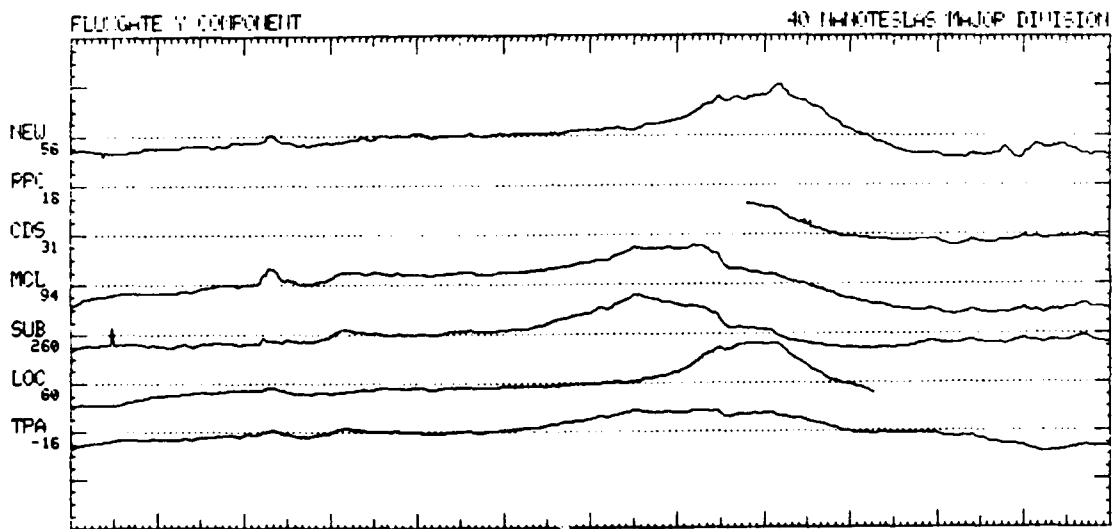
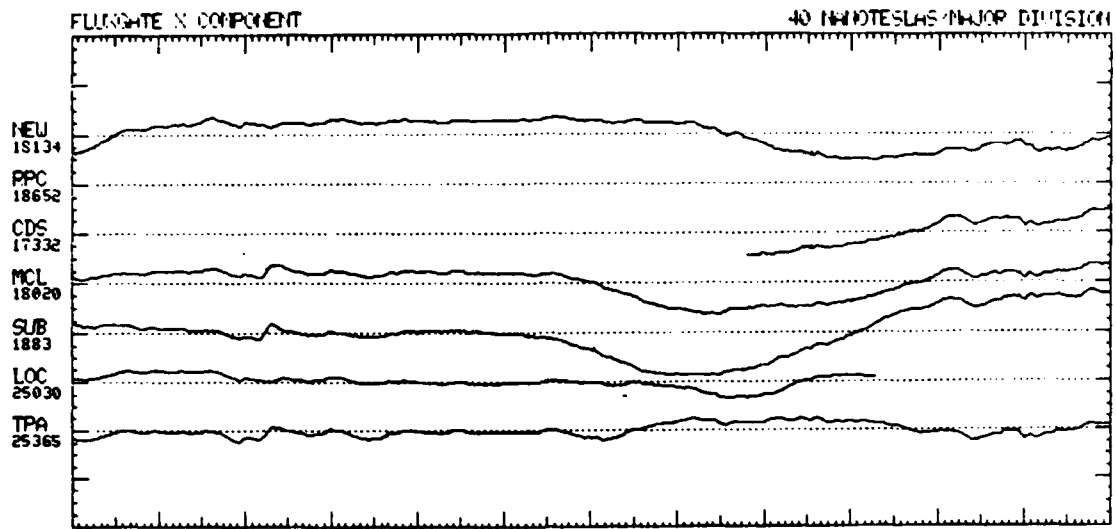


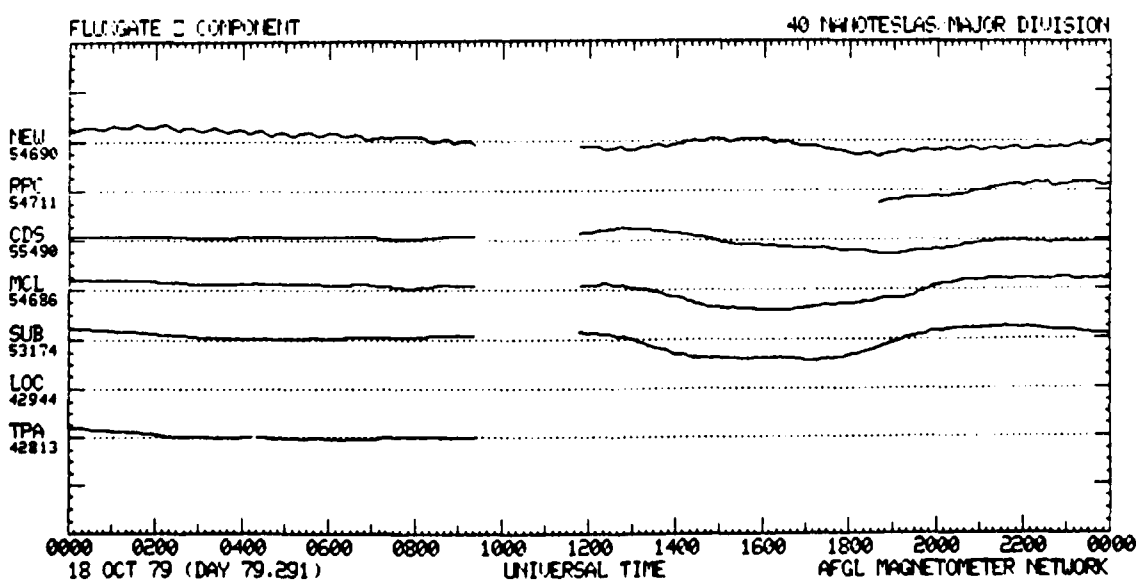
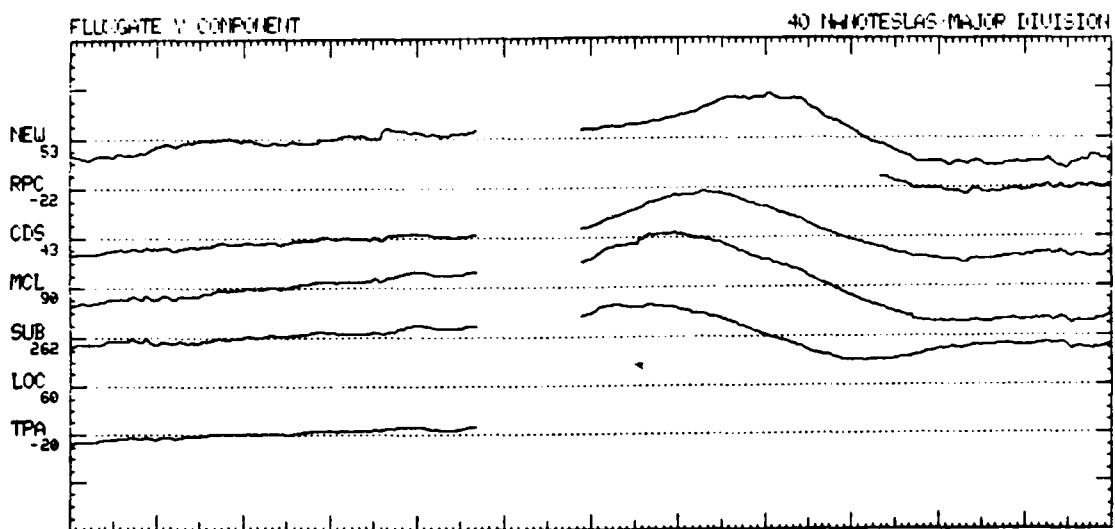
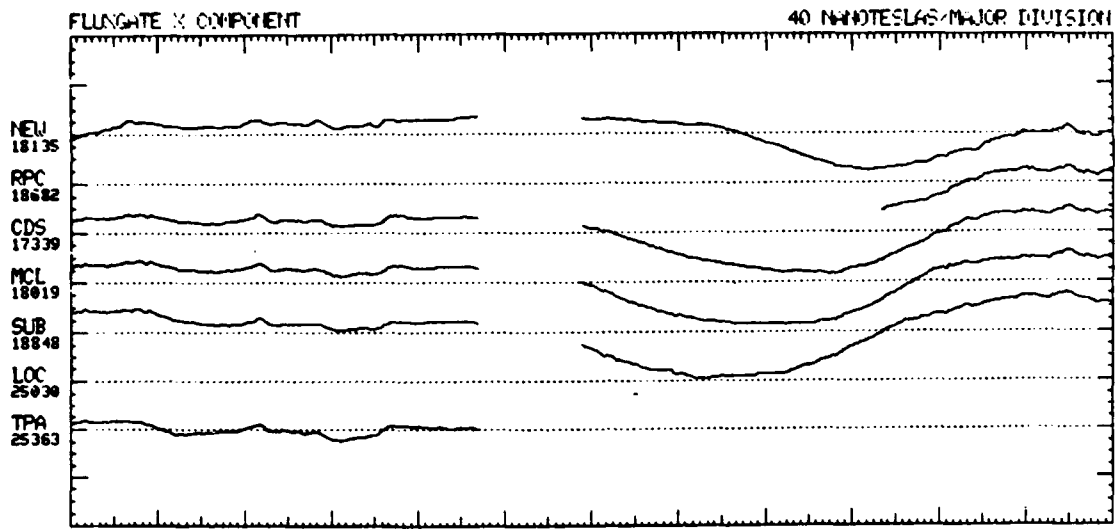
FLIGHTGATE Z COMPONENT

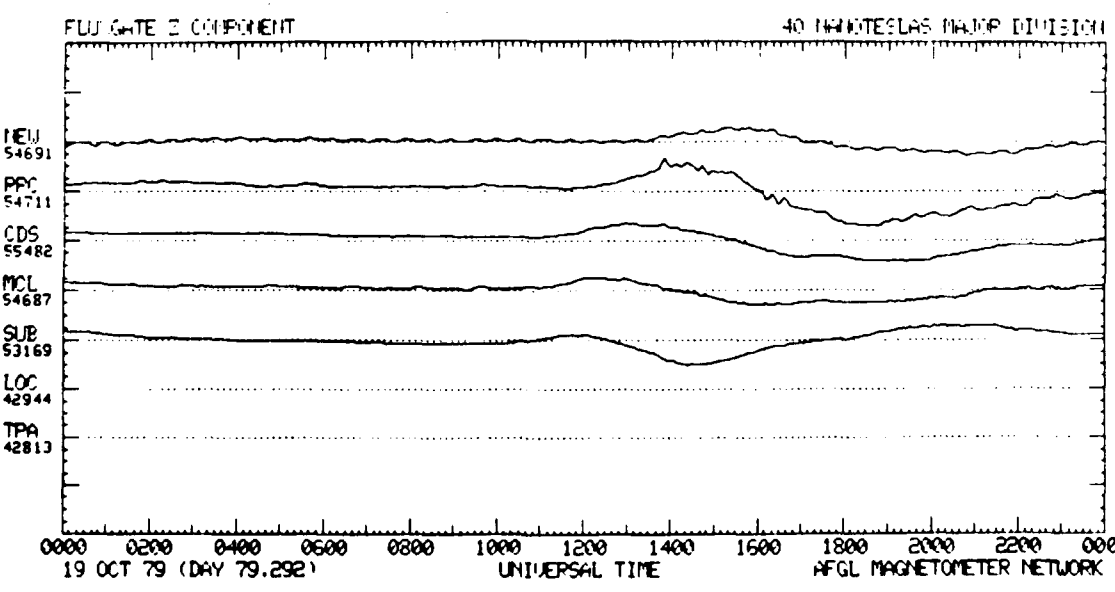
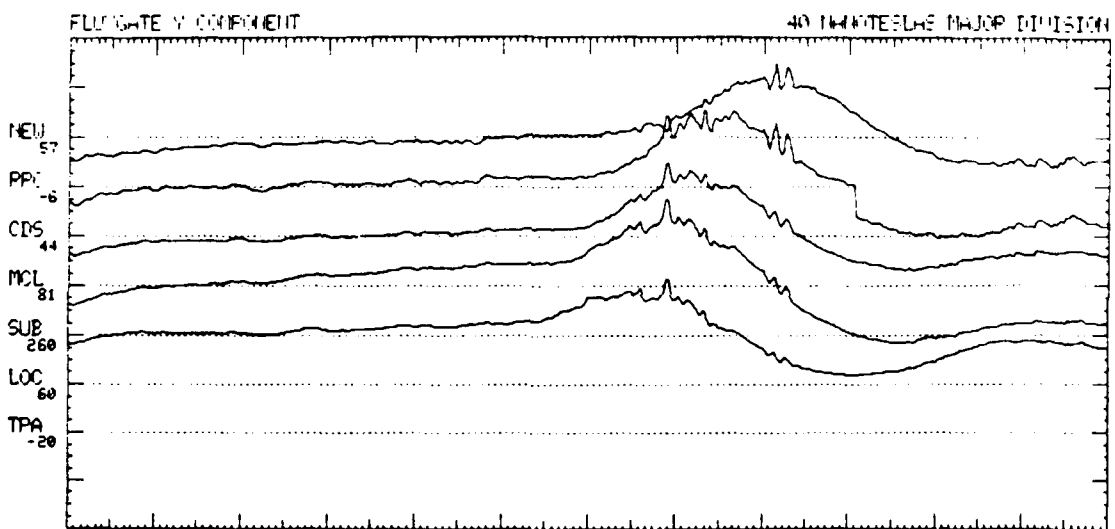
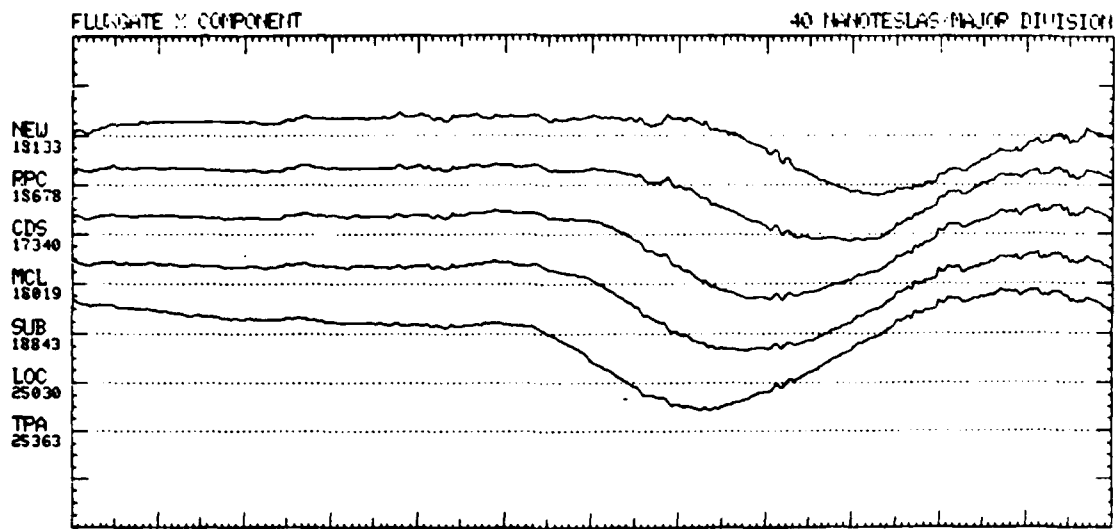
40 NANOTESLAS/MAJOR DIVISION

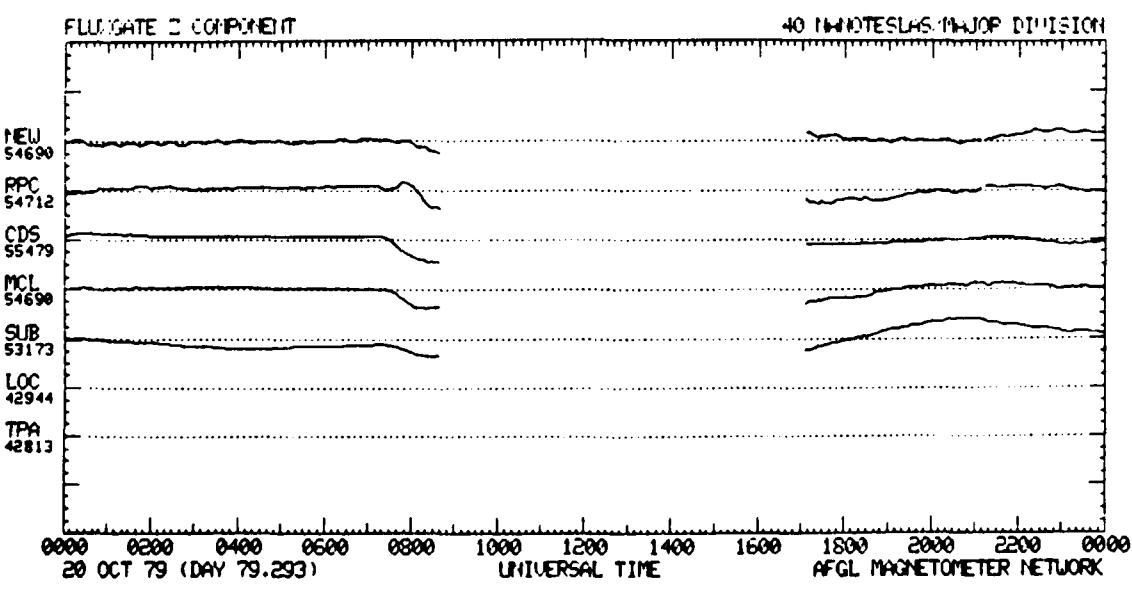
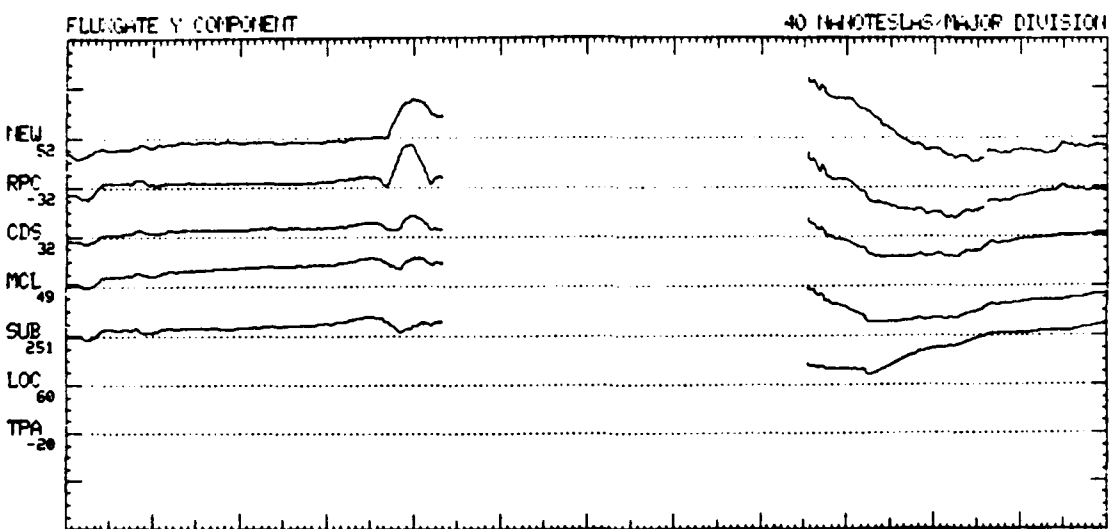
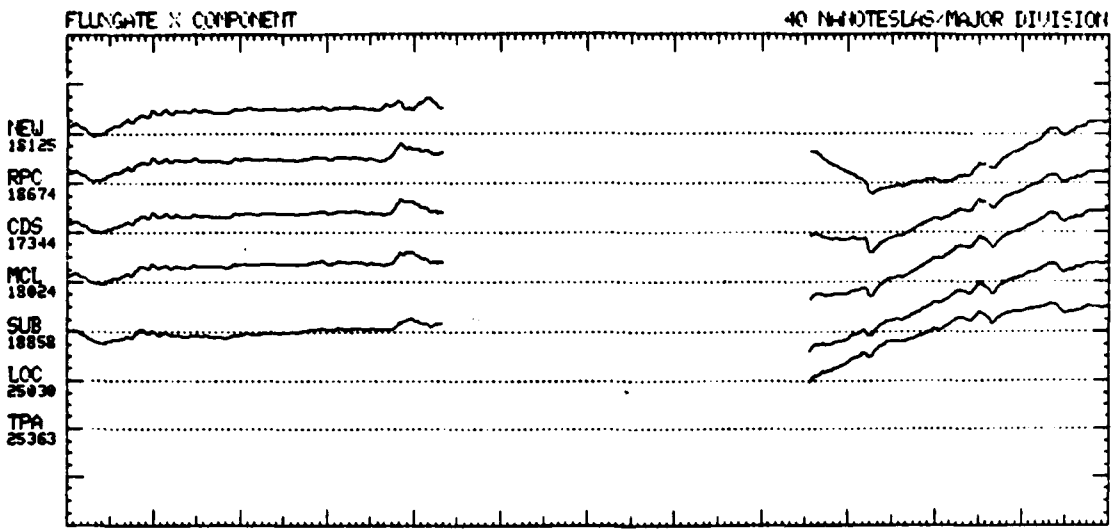


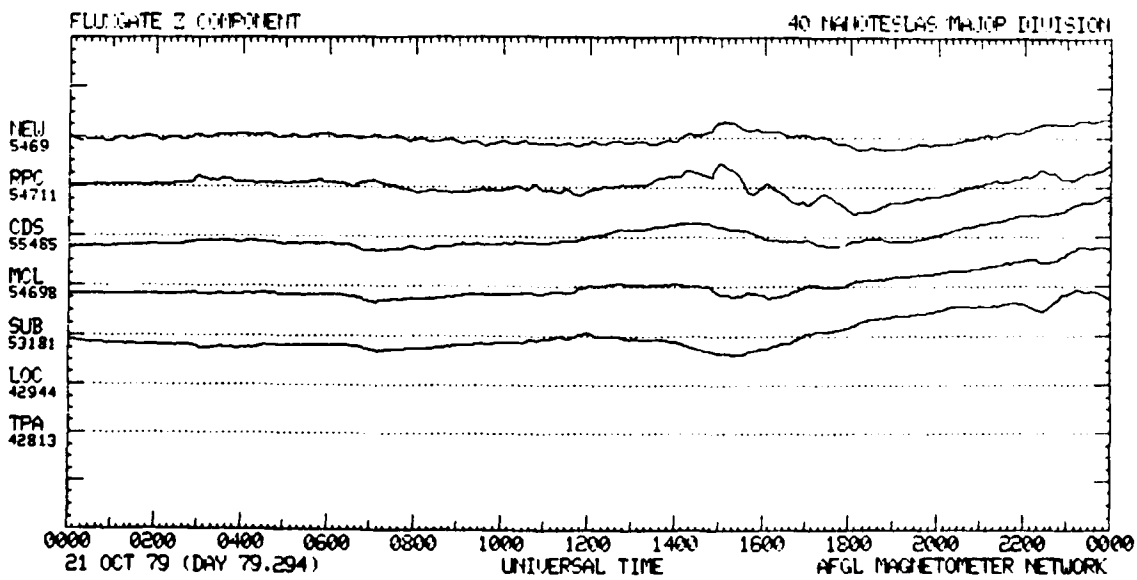
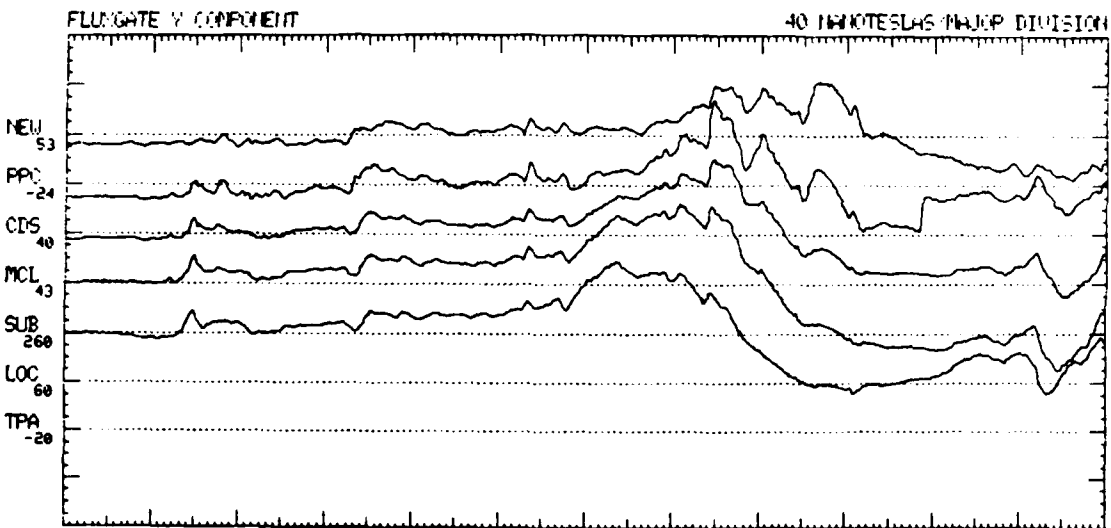
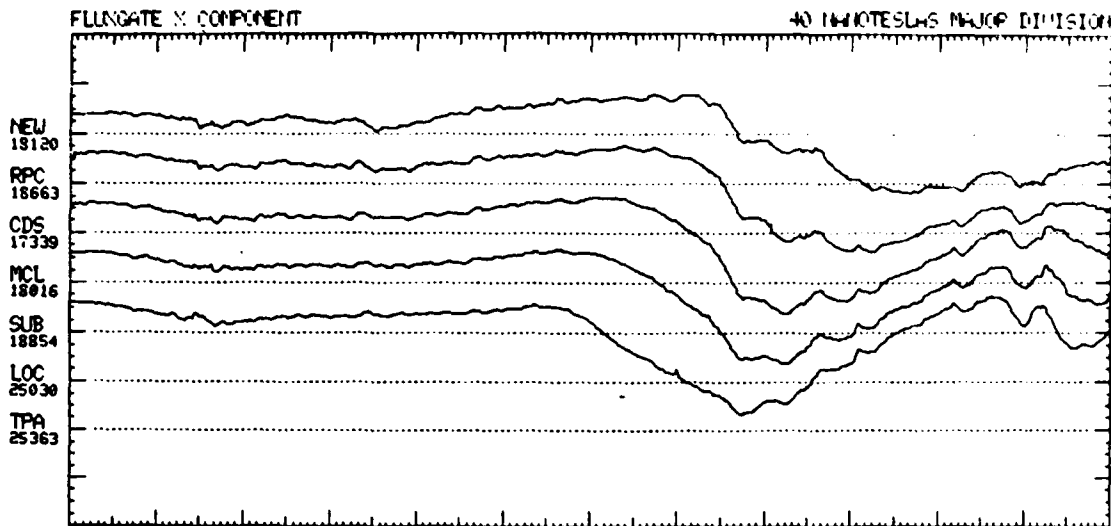
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 OCT 79 (DAY 79.289) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

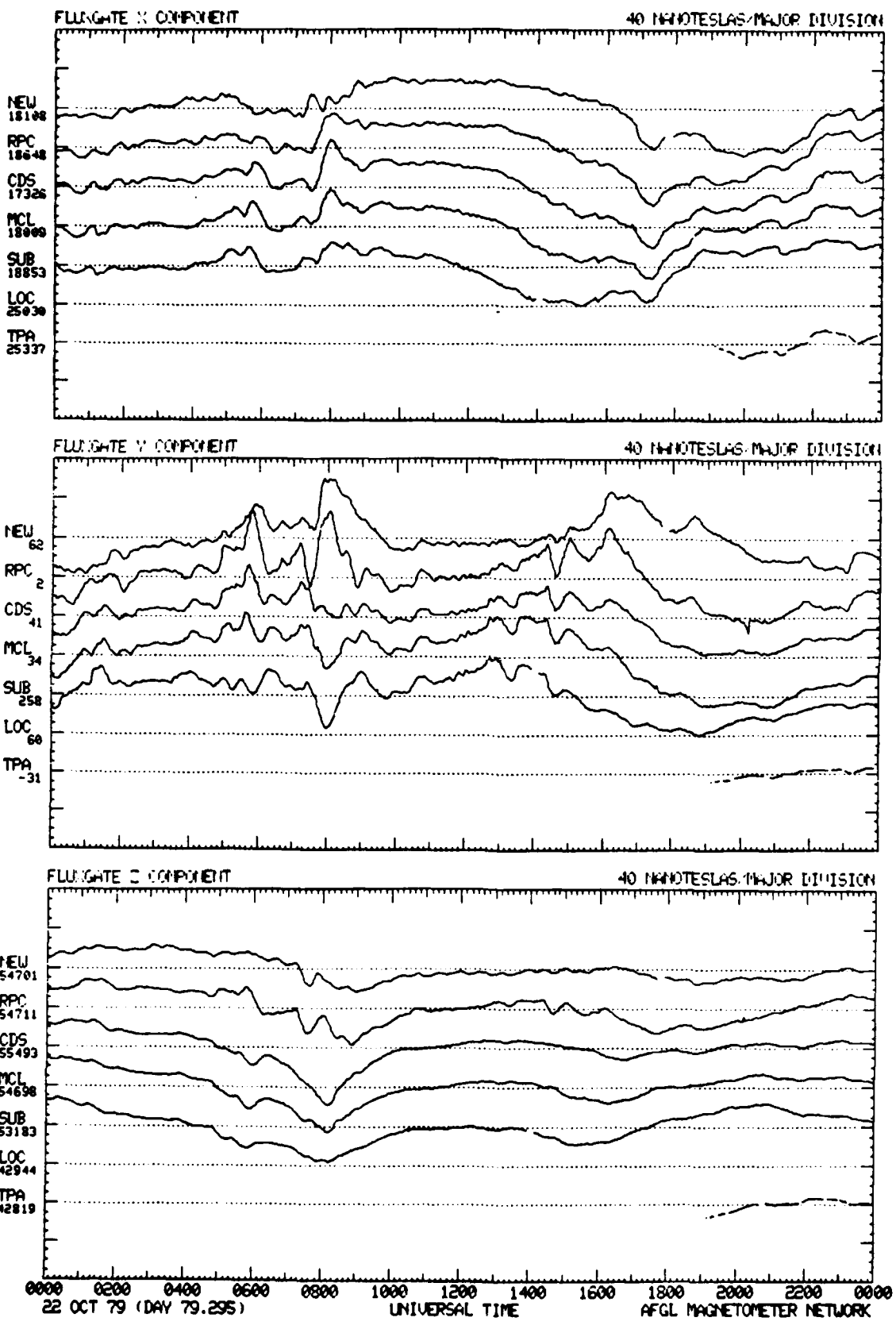


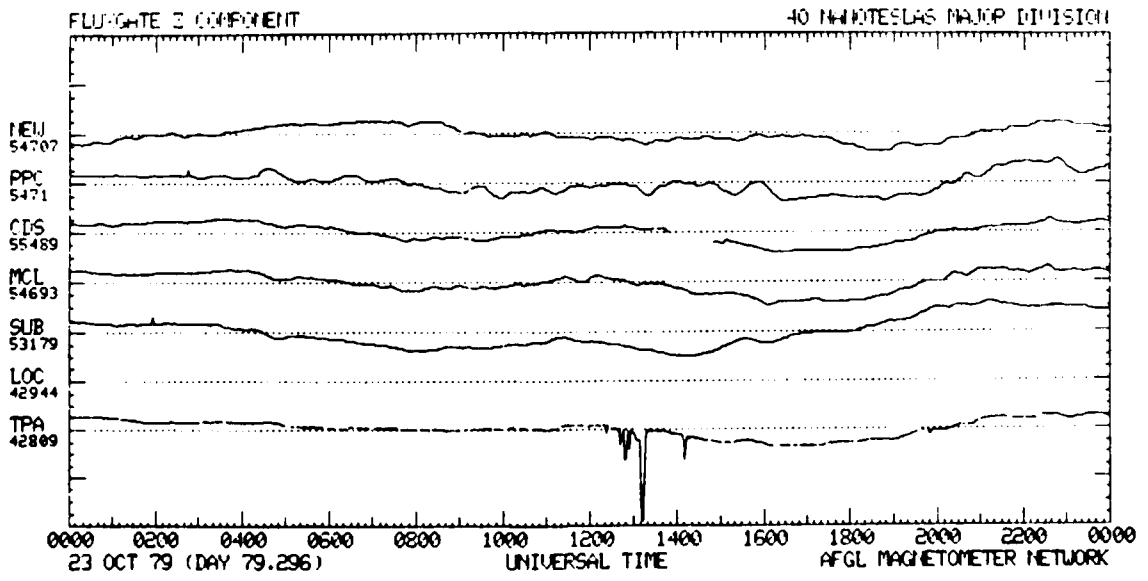
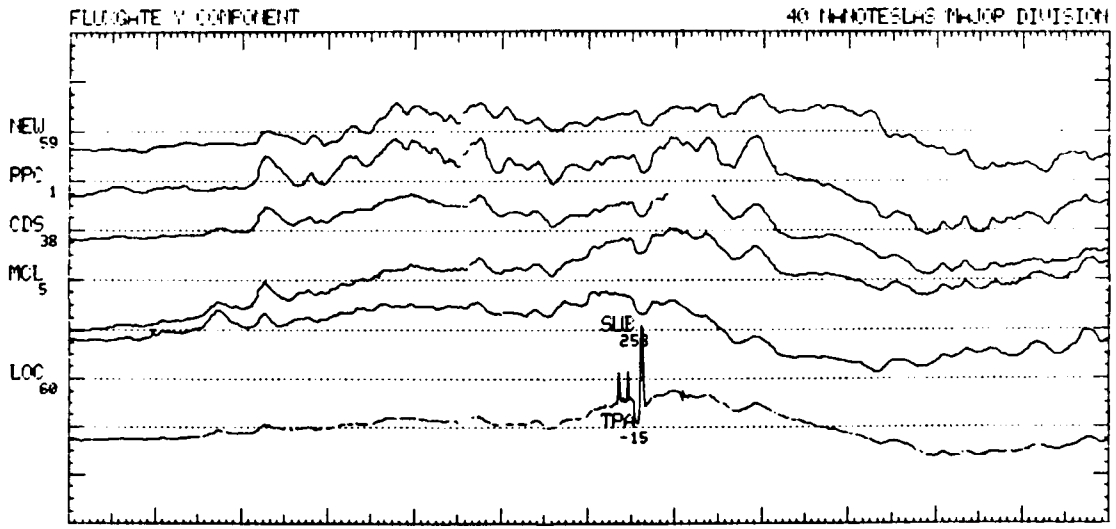
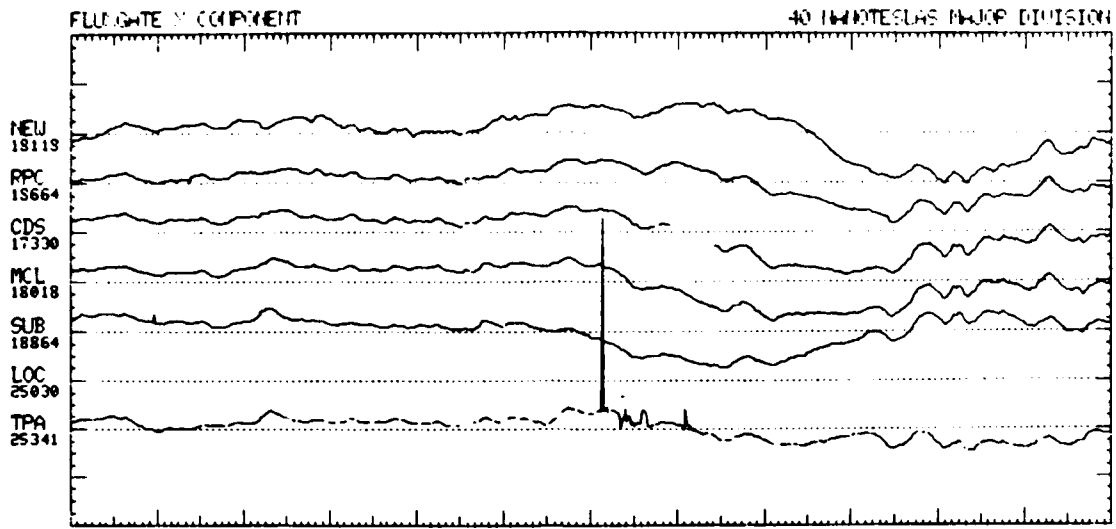


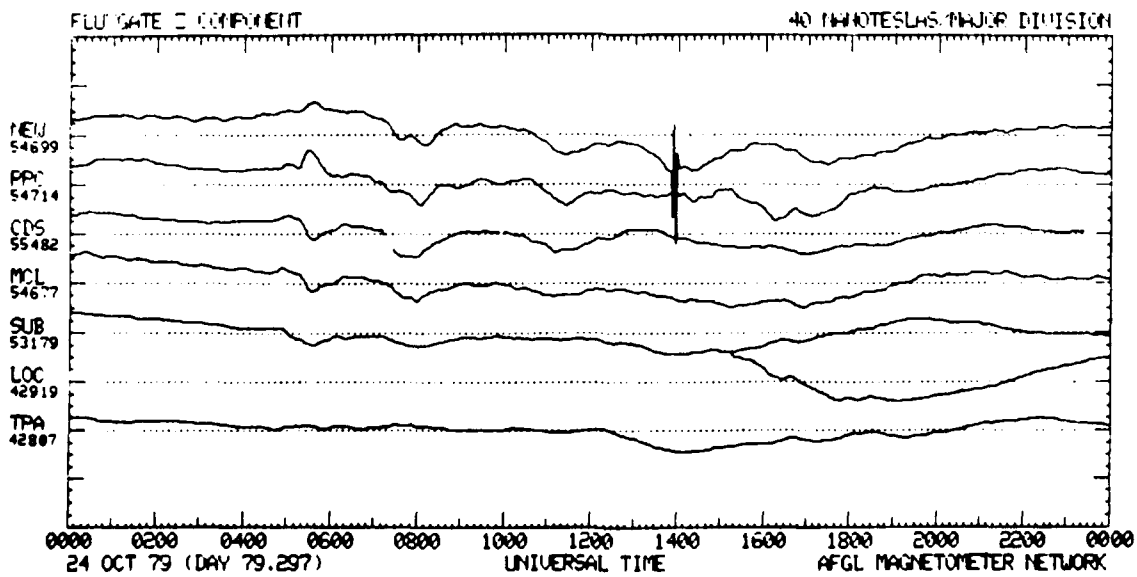
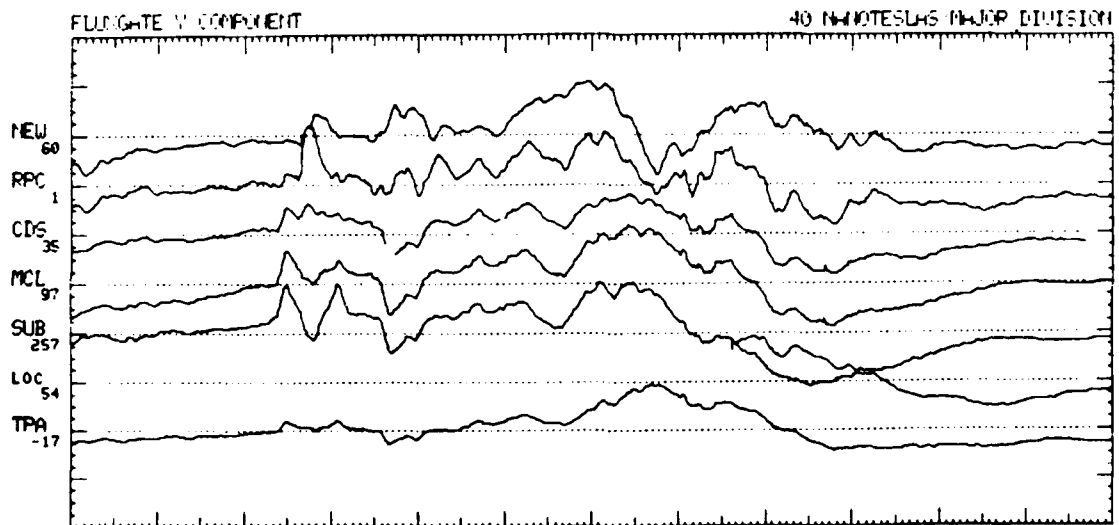
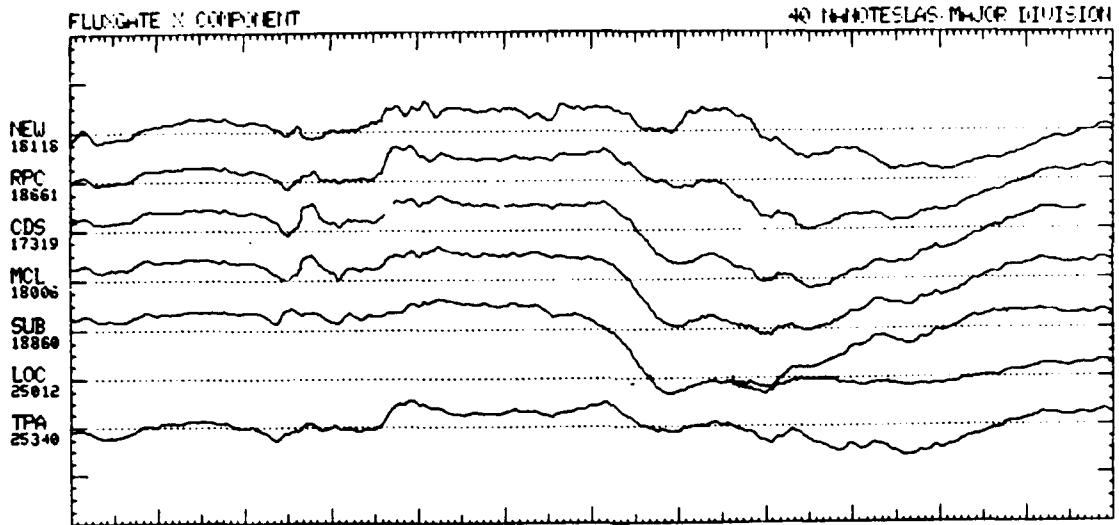


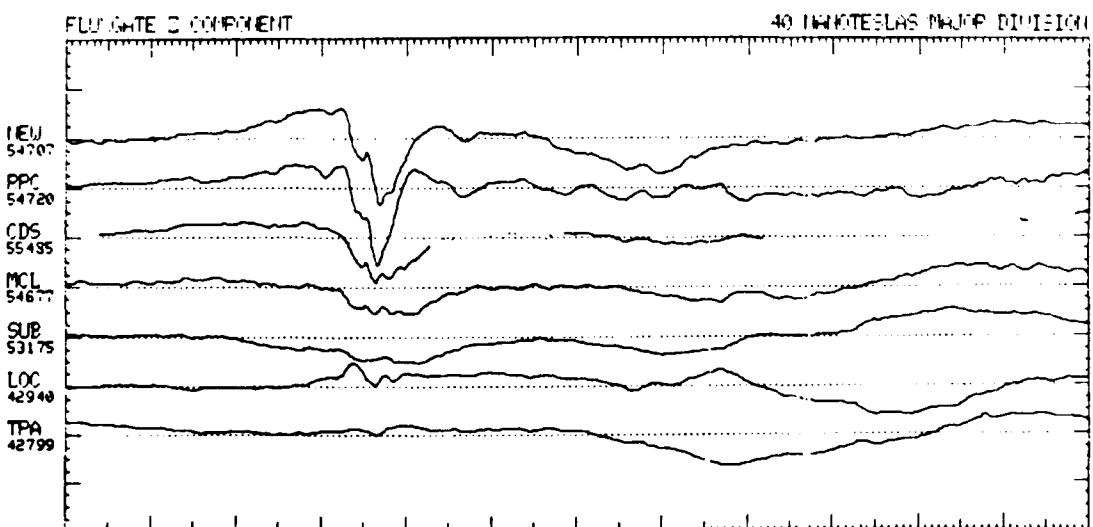
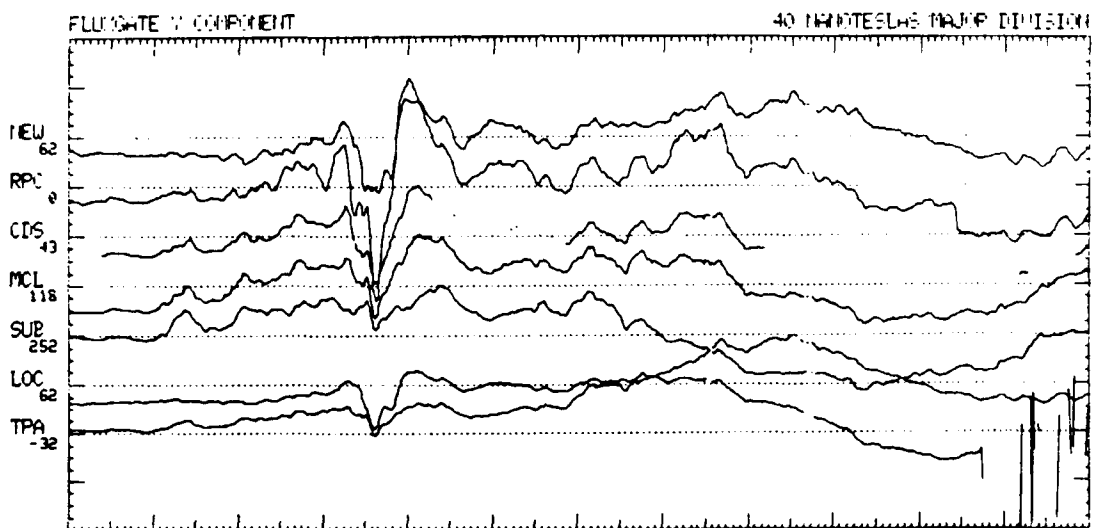
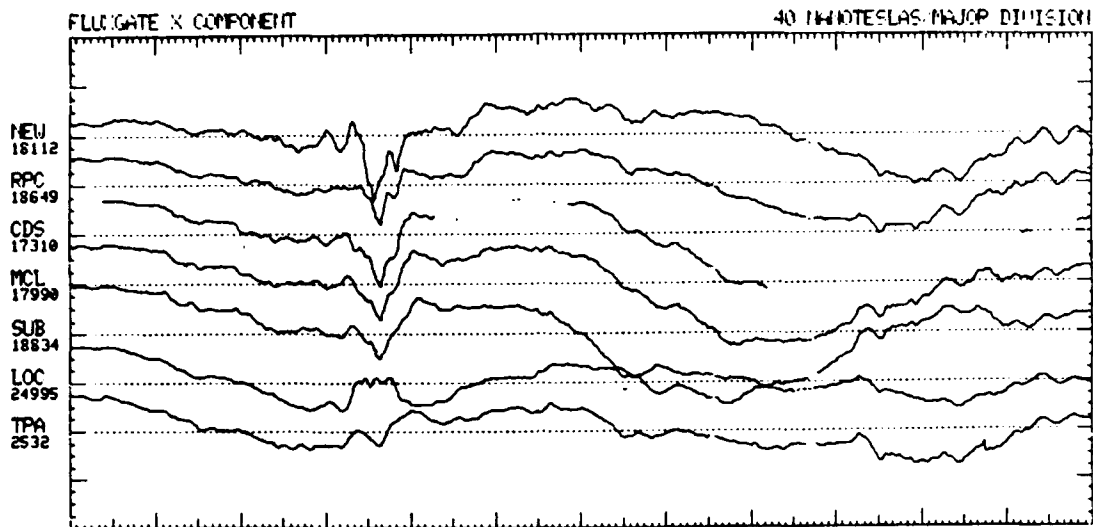








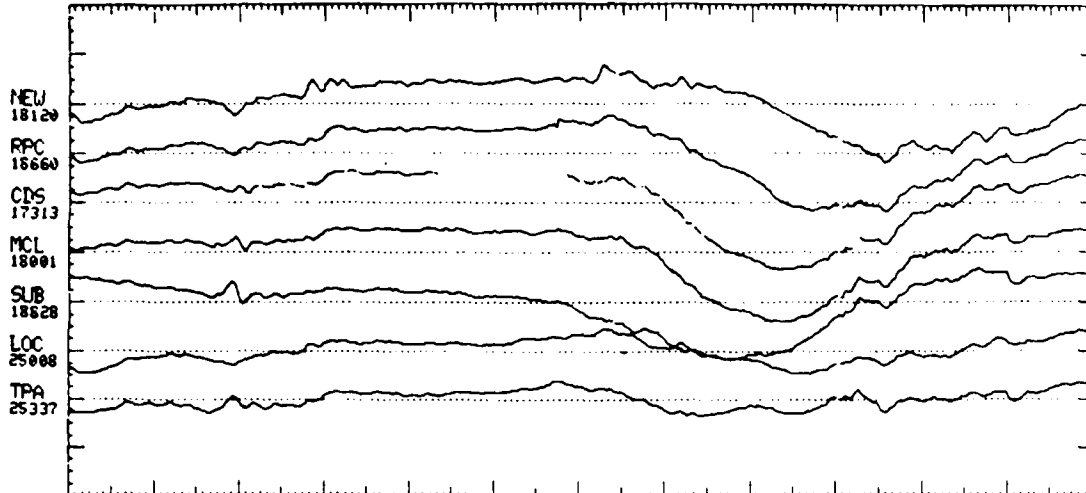




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 25 OCT 79 (DAY 79.298) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

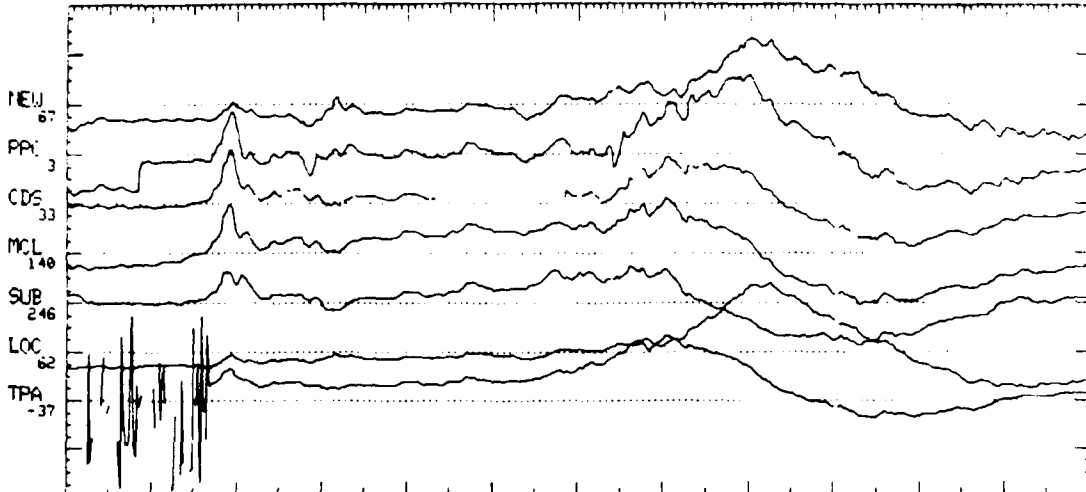
FLIGHTLINE X COMPONENT

40 NANOTESLAHS (NANOP DIVISION)



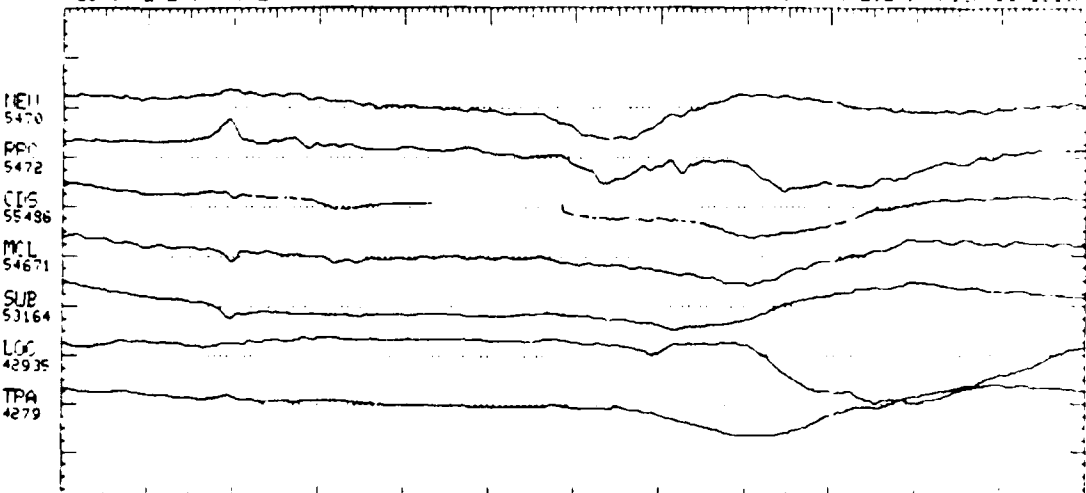
FLIGHTLINE Y COMPONENT

40 NANOTESLAHS (NANOP DIVISION)

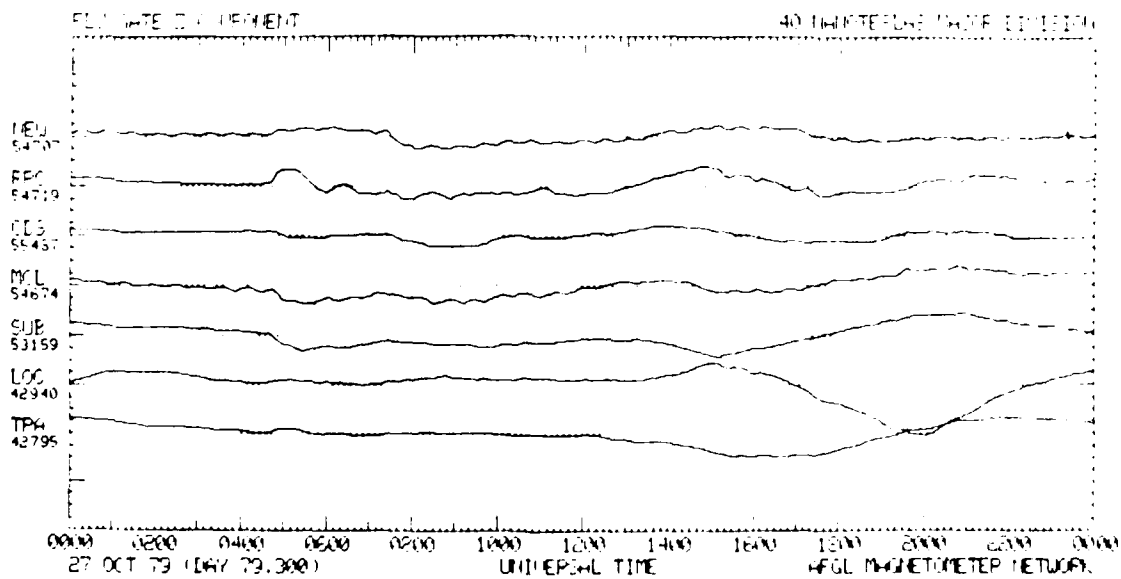
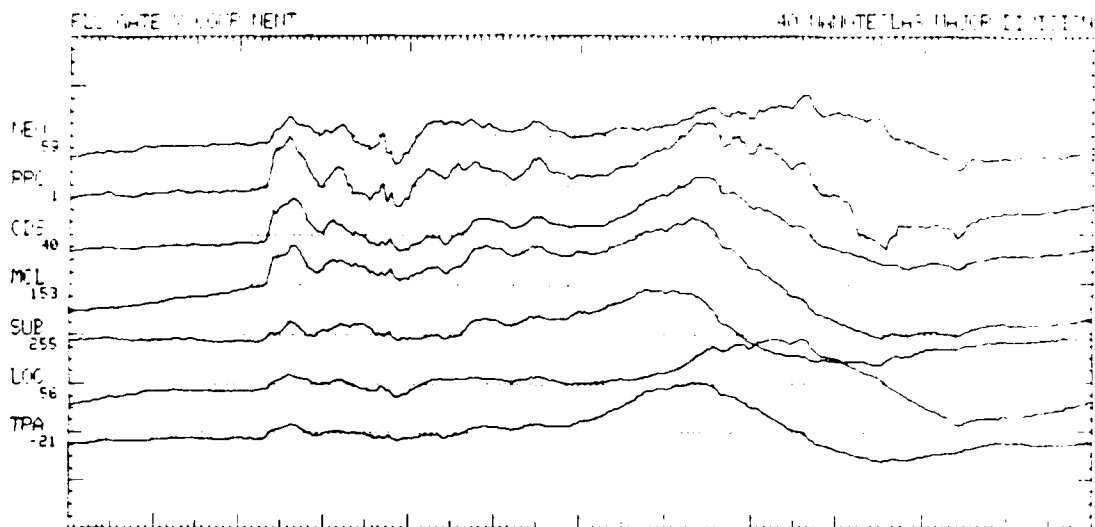
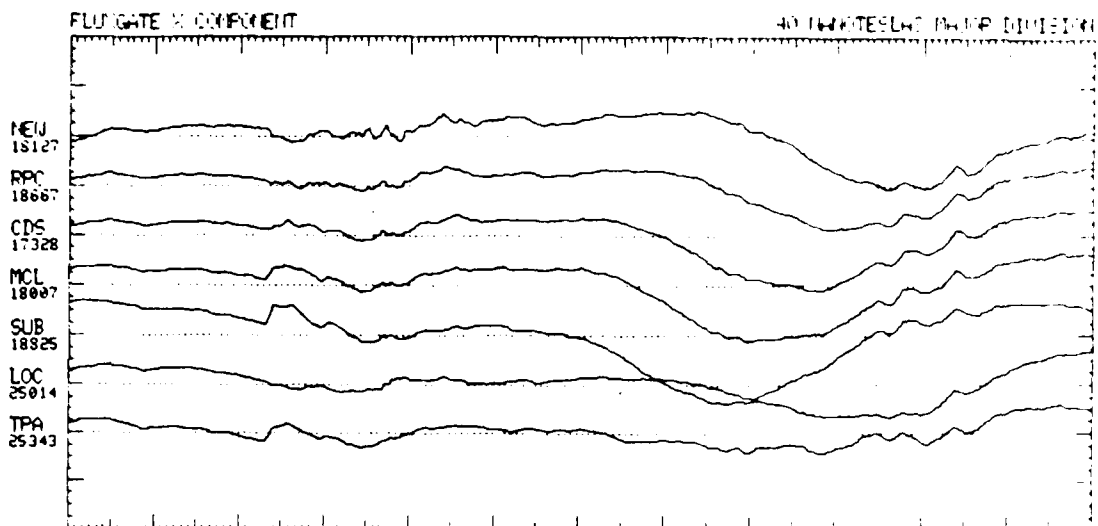


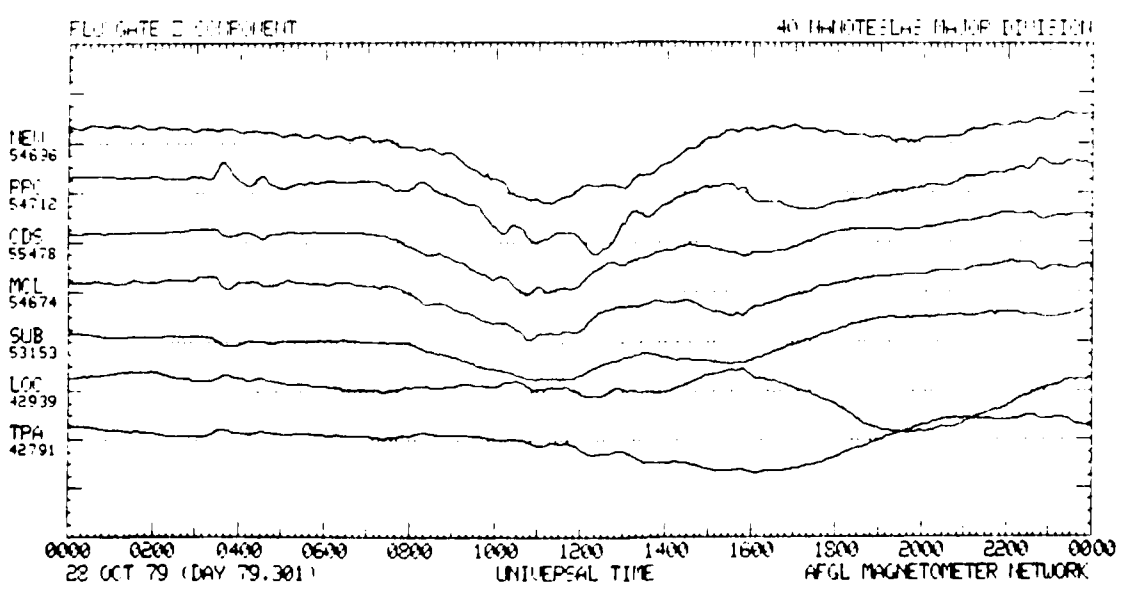
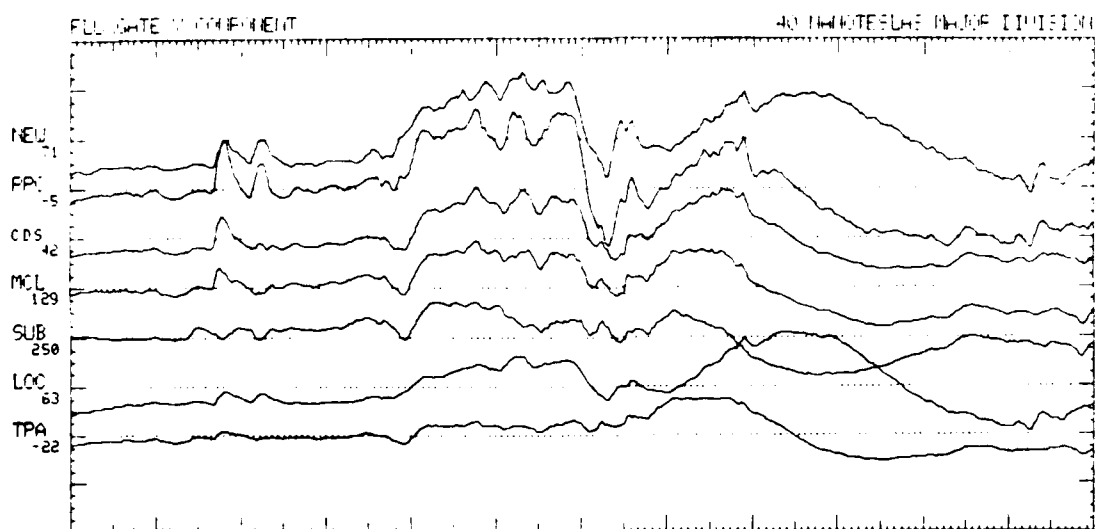
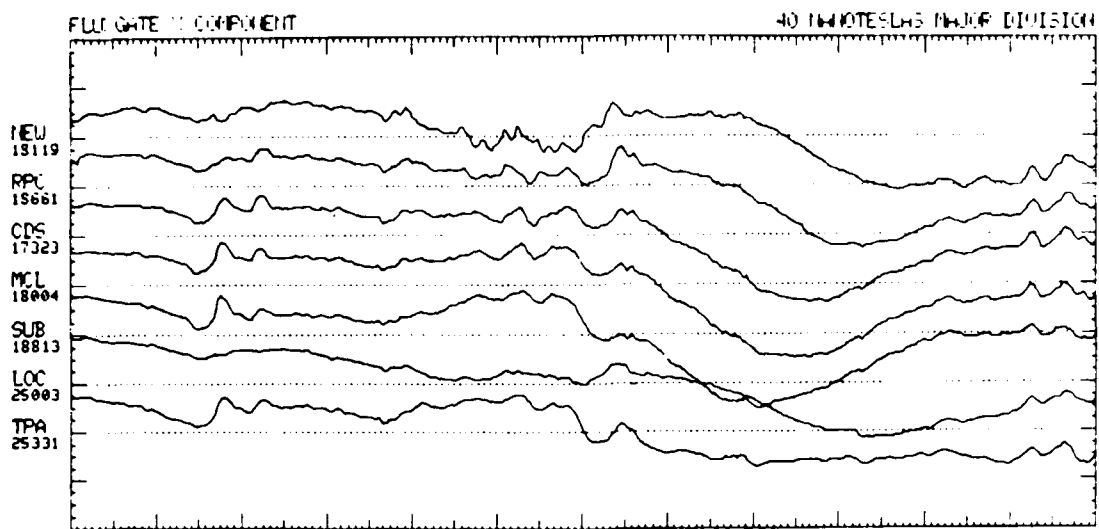
FLIGHTLINE Z COMPONENT

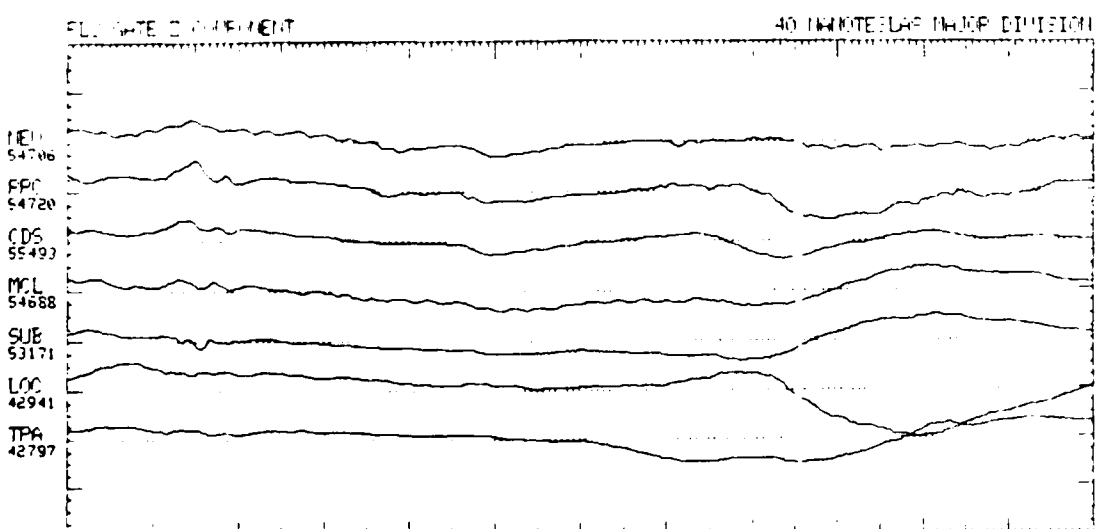
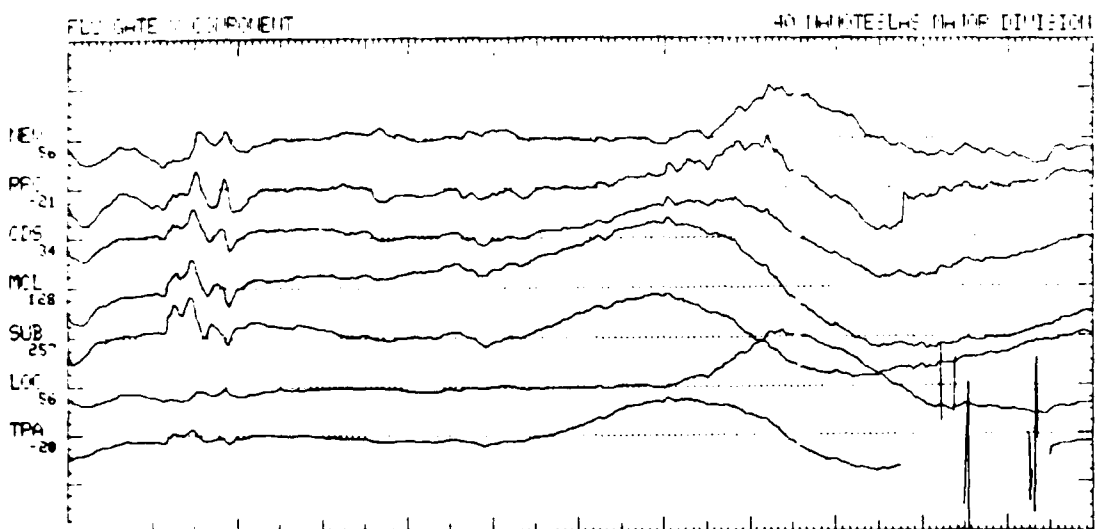
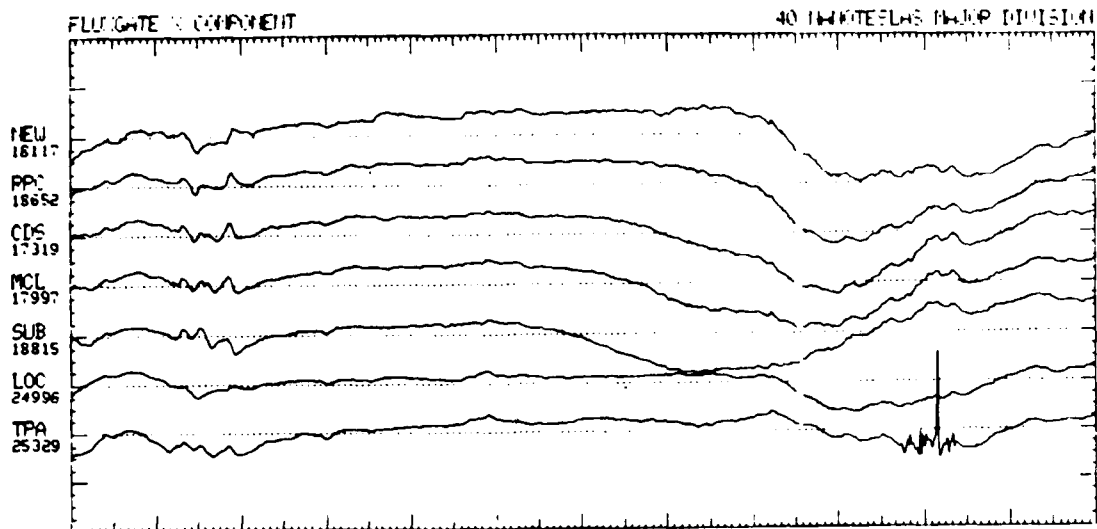
40 NANOTESLAHS (NANOP DIVISION)



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 26 OCT 79 (DAY 79.299) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

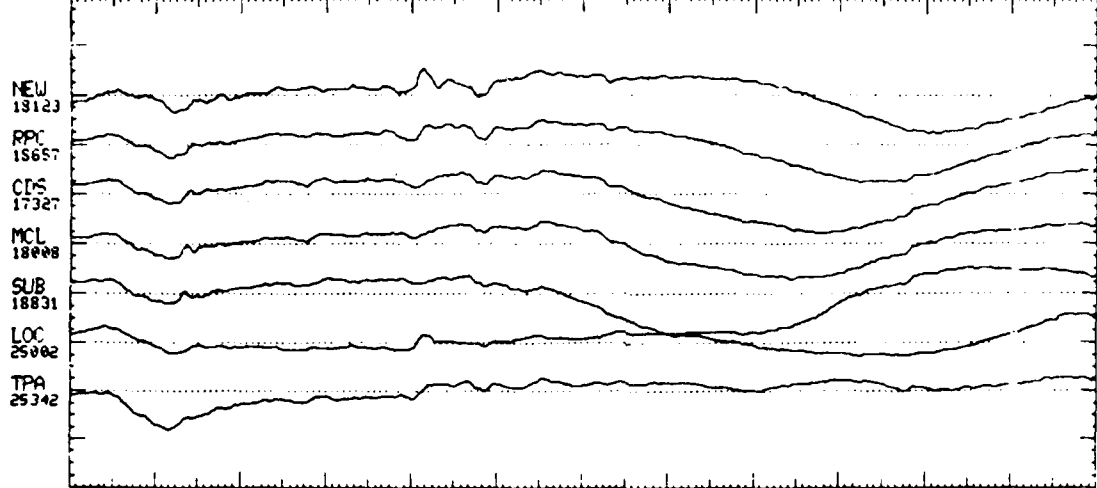




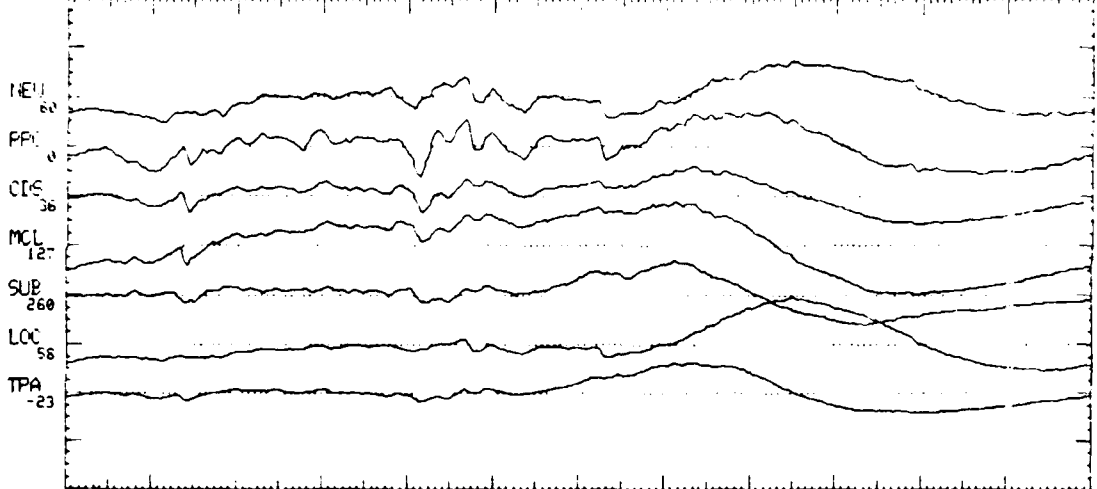


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 29 OCT 79 (DAY 79.302) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

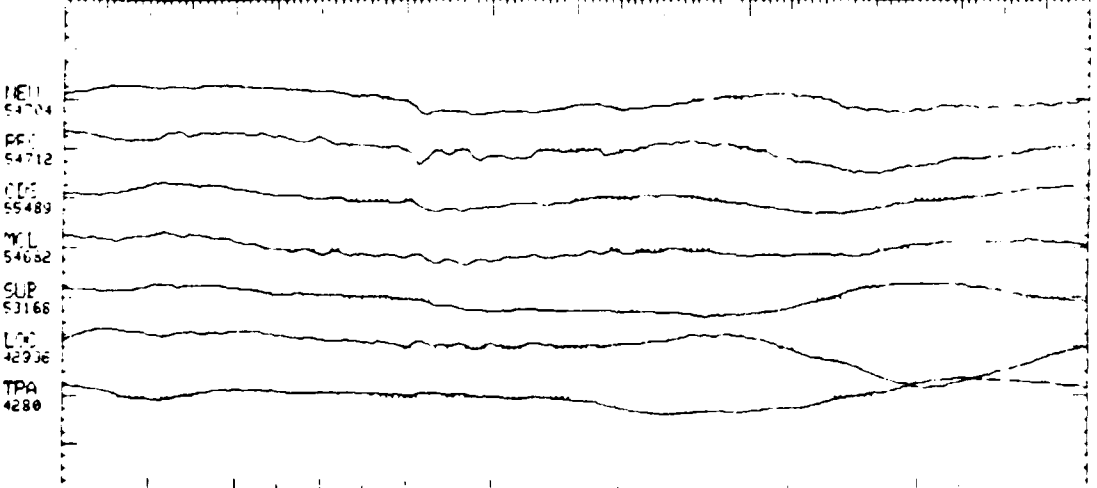
FLIGHTS IN COMPONENT 40 THURSDAY INQUIRY DIVISION



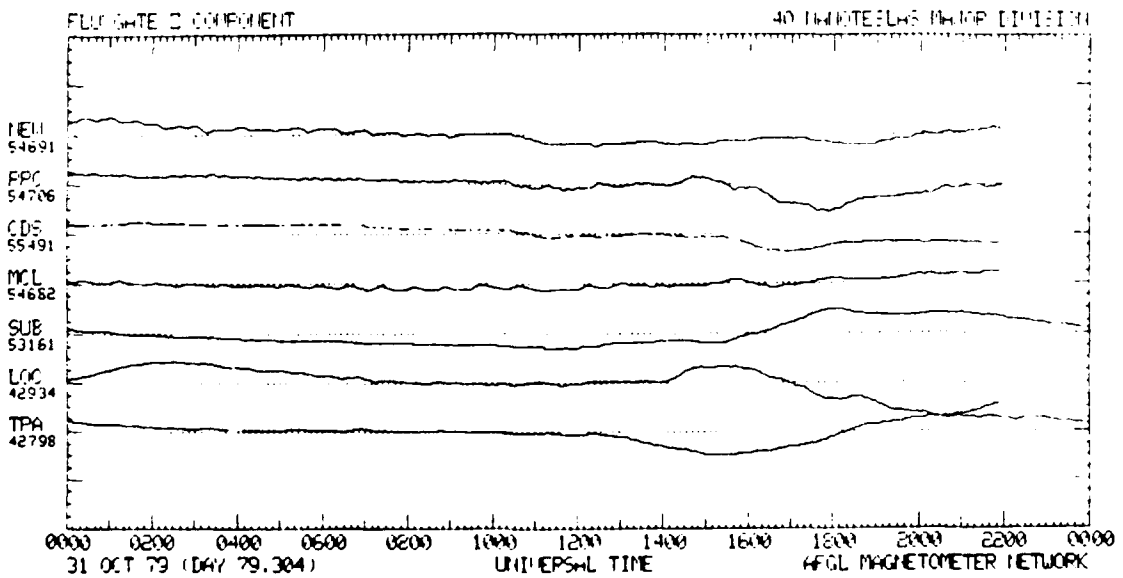
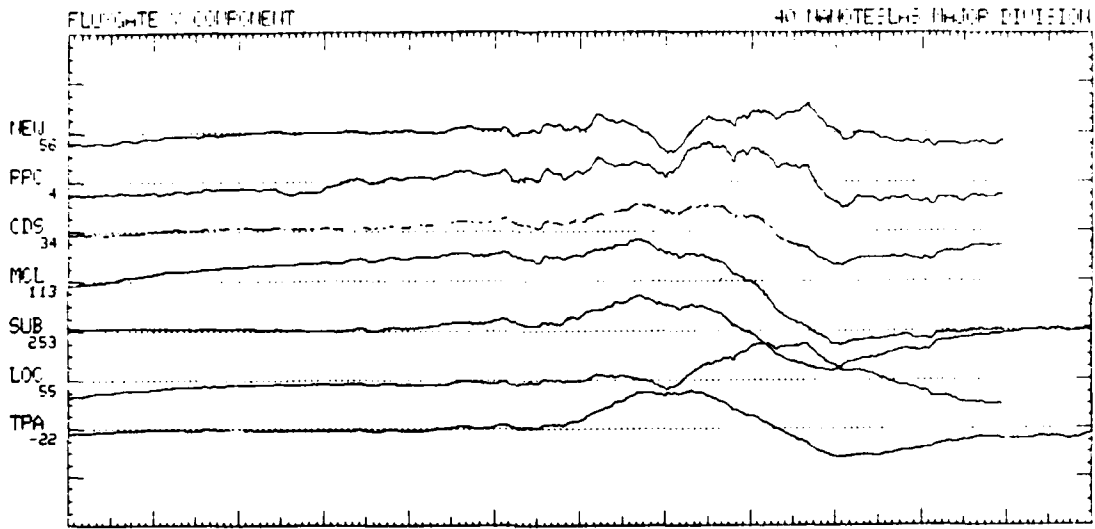
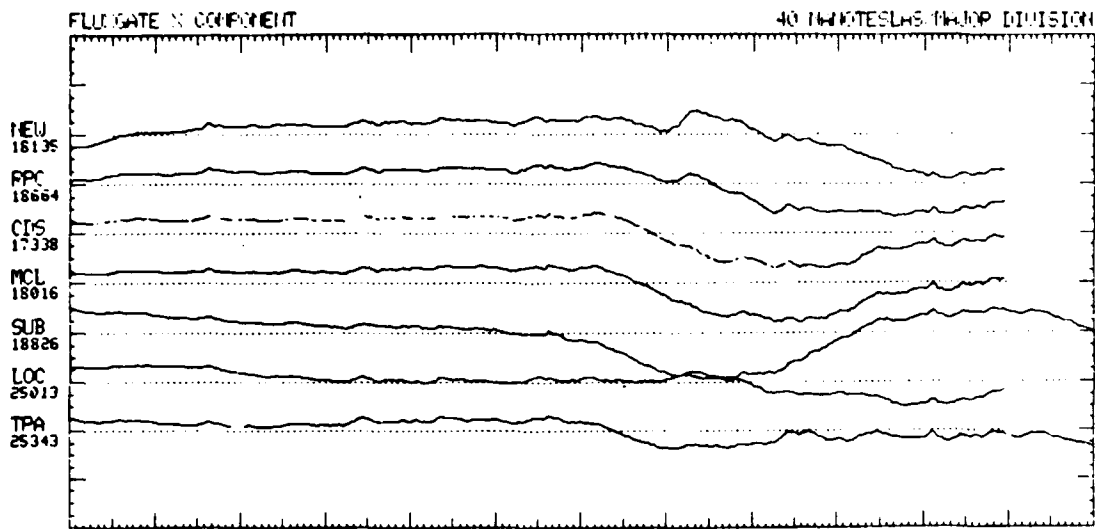
FLIGHTS IN COMPONENT 40 THURSDAY INQUIRY DIVISION

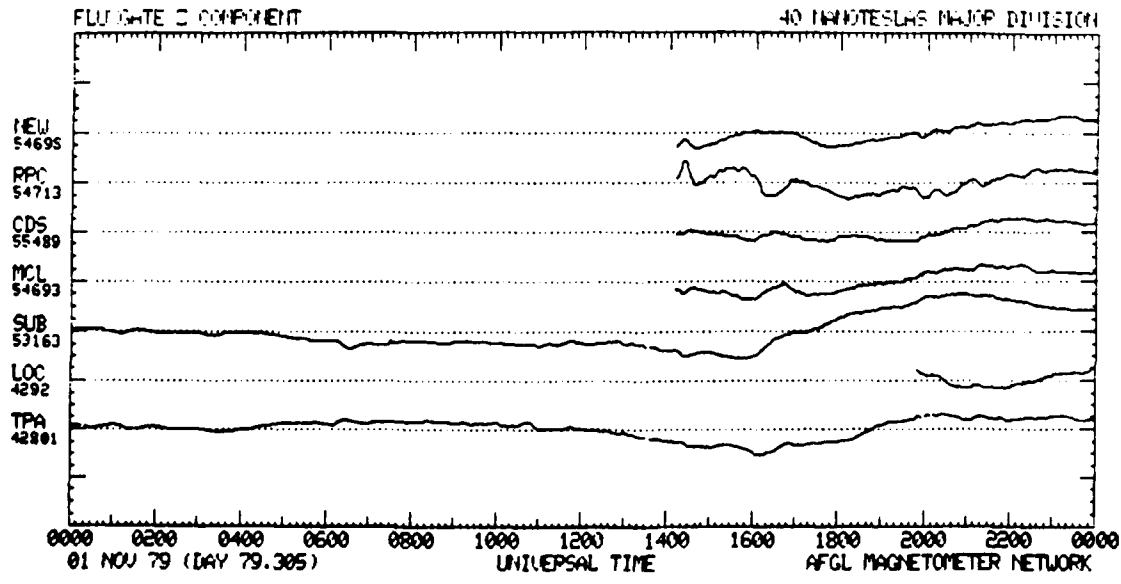
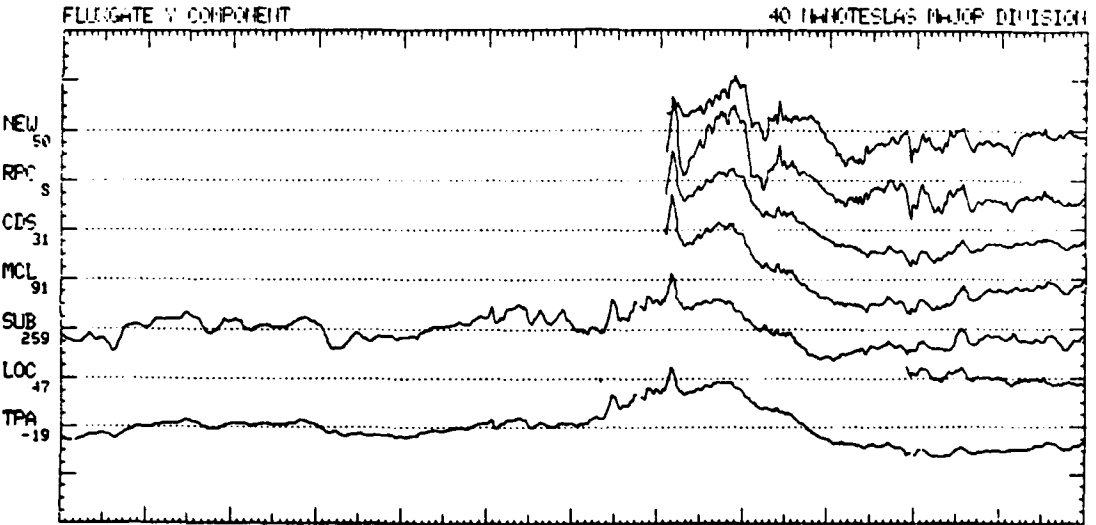
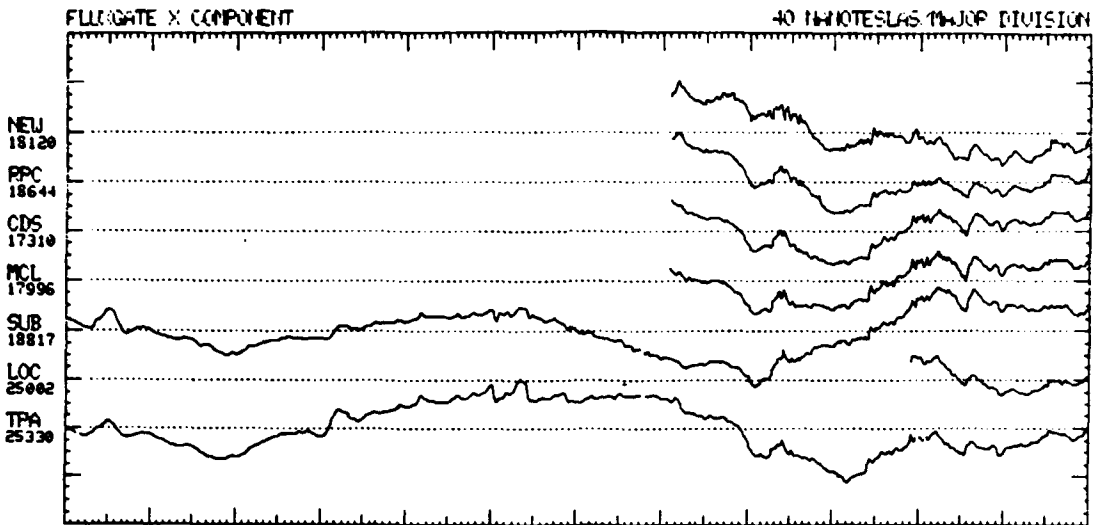


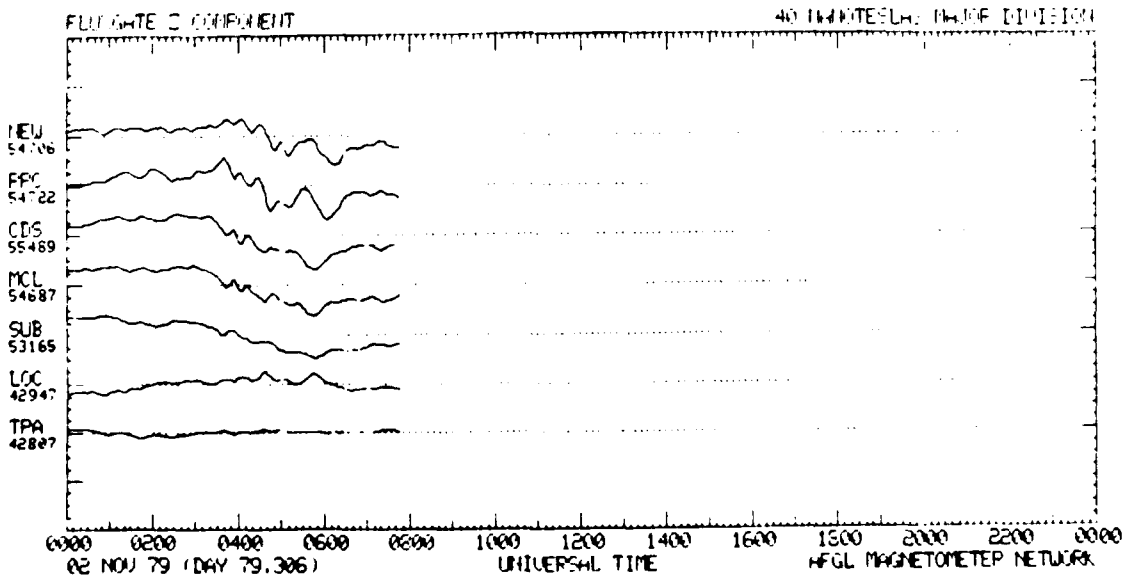
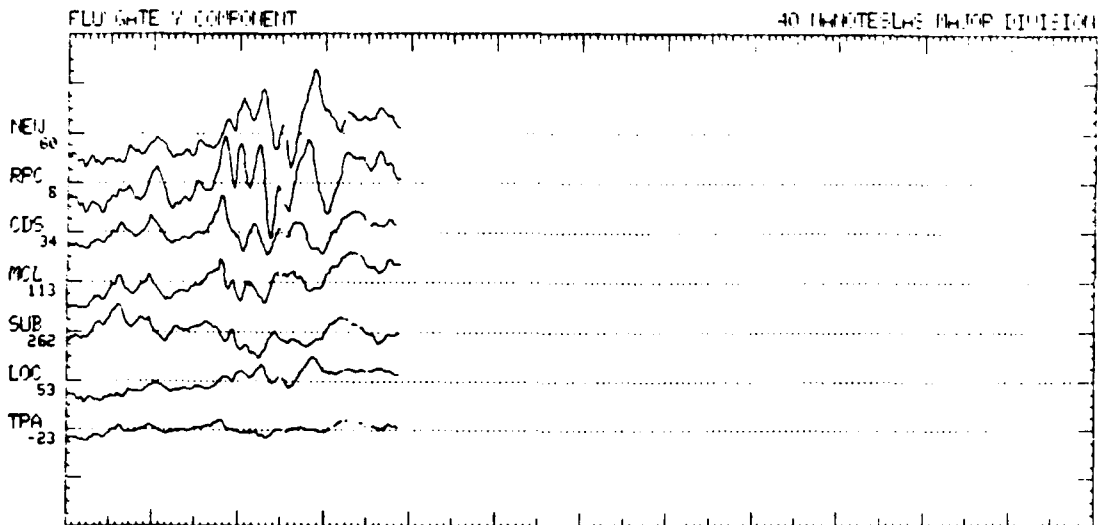
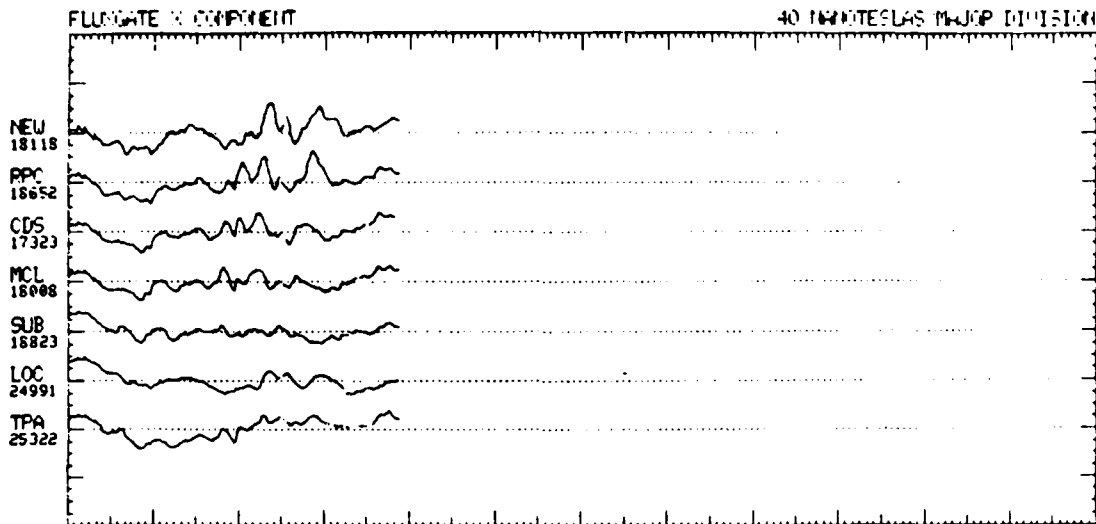
FLIGHTS IN COMPONENT 40 THURSDAY INQUIRY DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 30 OCT 79 (DAY 79.03) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK



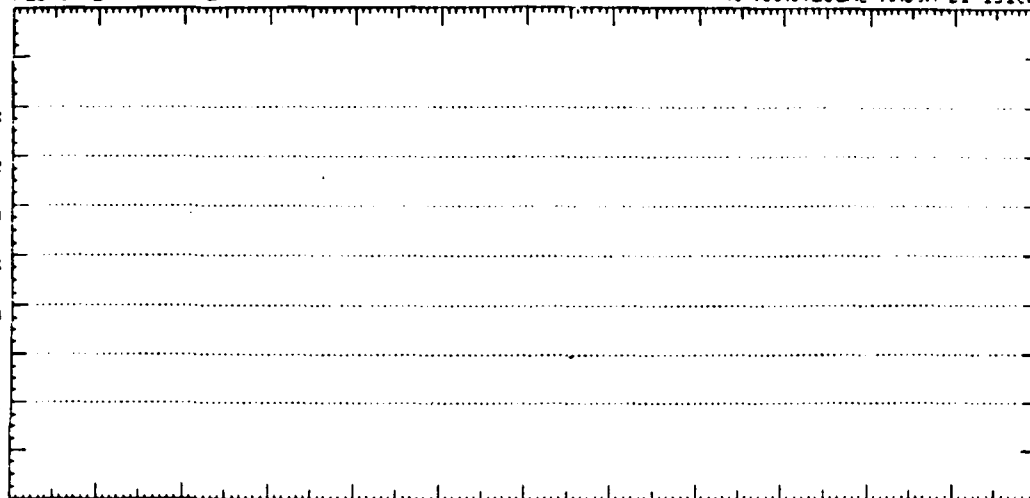




FLIGHTLINE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

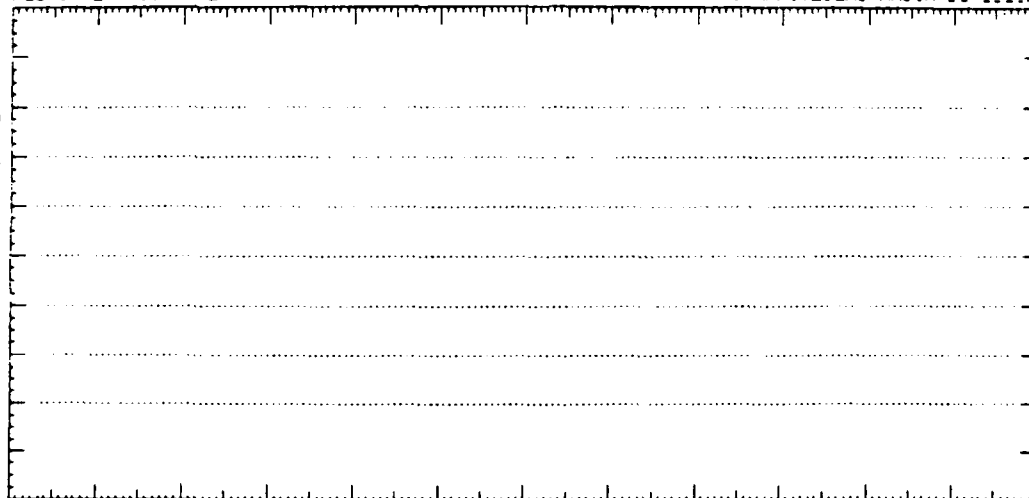
NEW
18118
PPC
18652
CDS
17323
MCL
18088
SUB
18823
LOC
24991
TPA
25322



FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

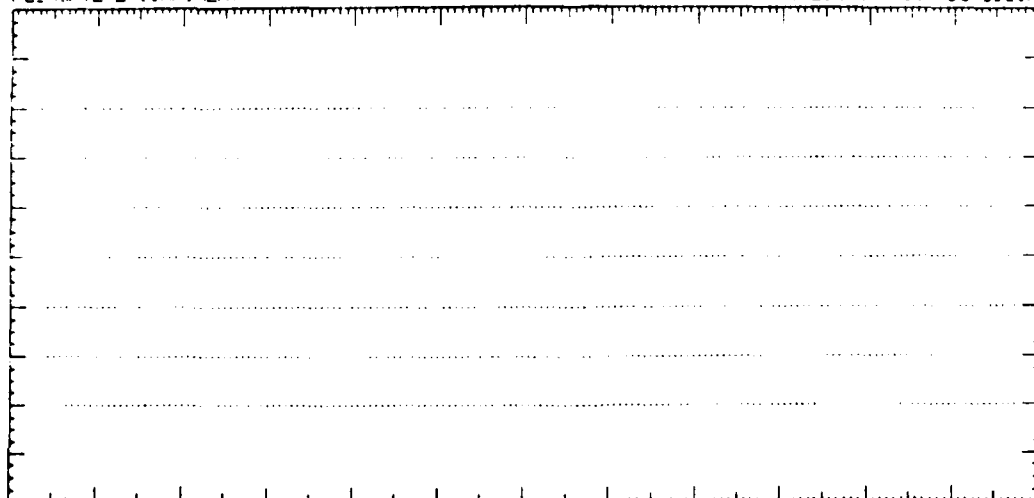
NEW
60
PPC
8
CDS
34
MCL
113
SUB
262
LOC
53
TPA
-23



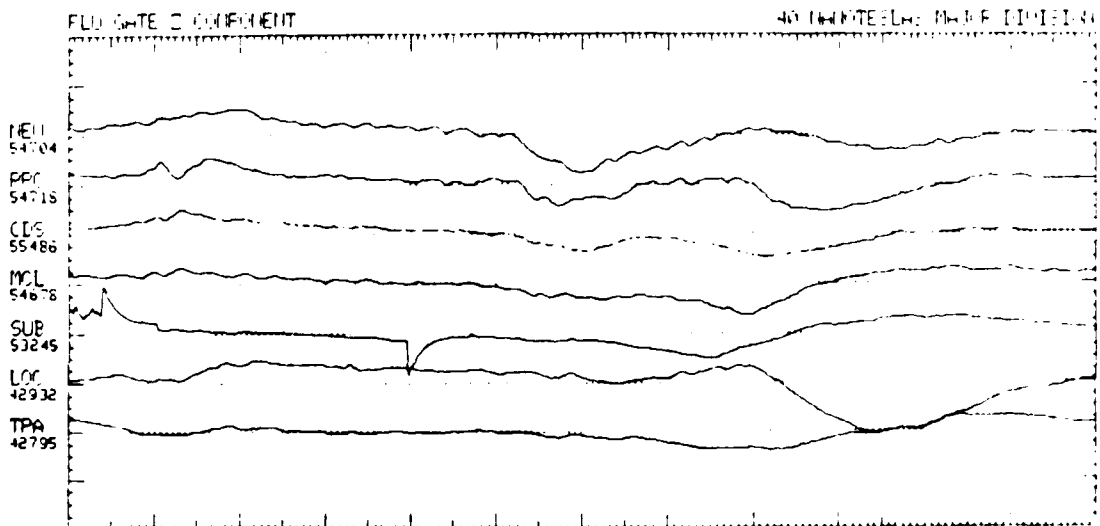
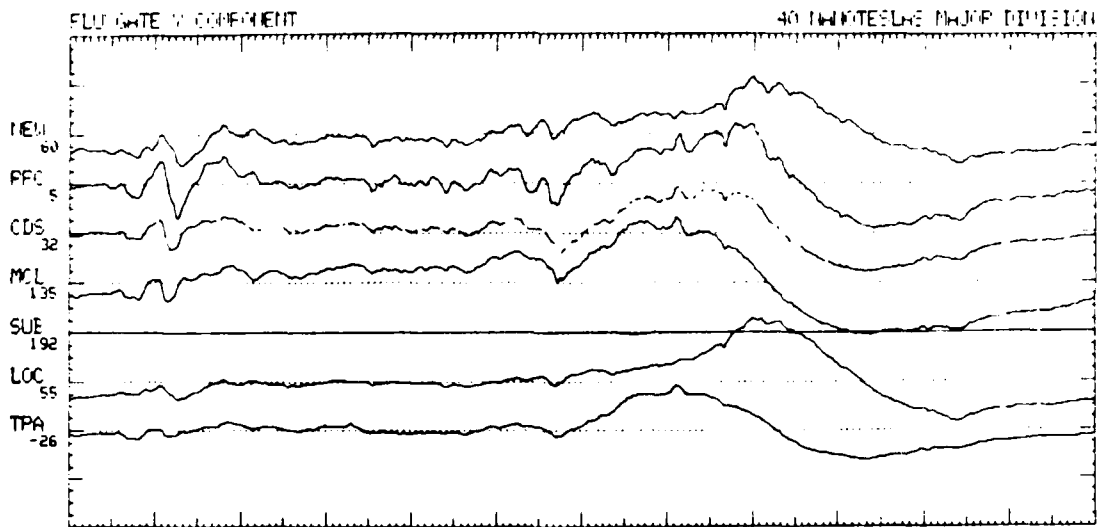
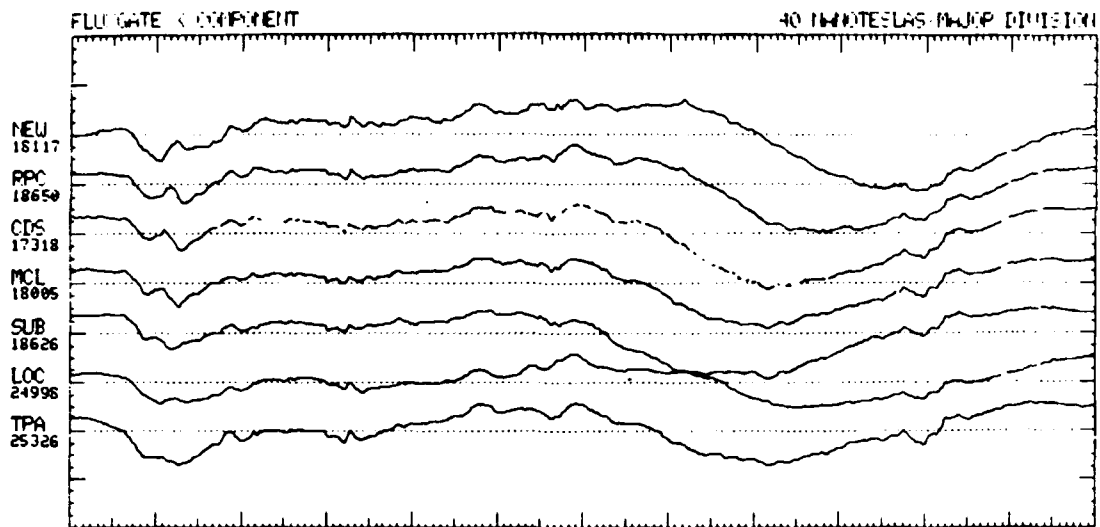
FLIGHTLINE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

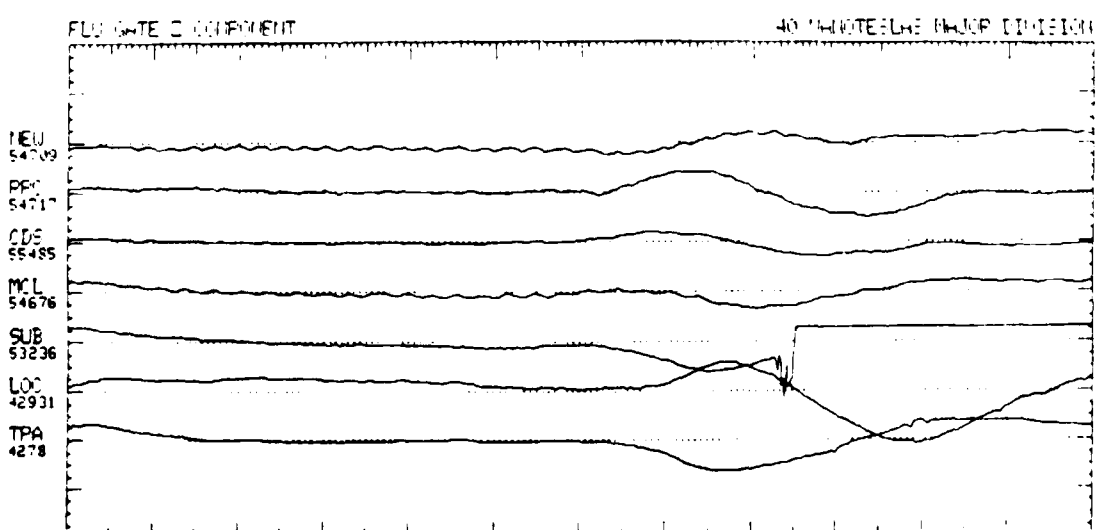
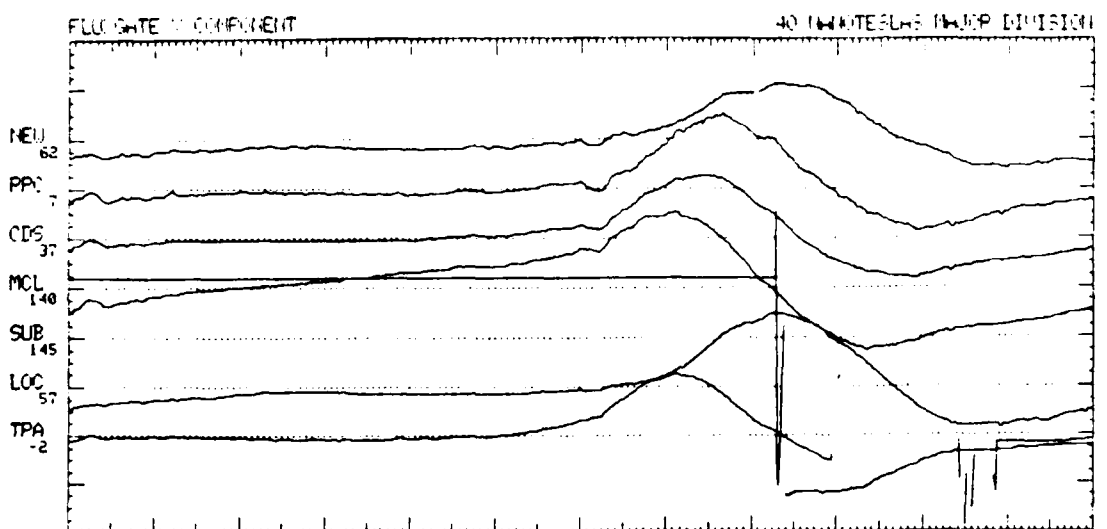
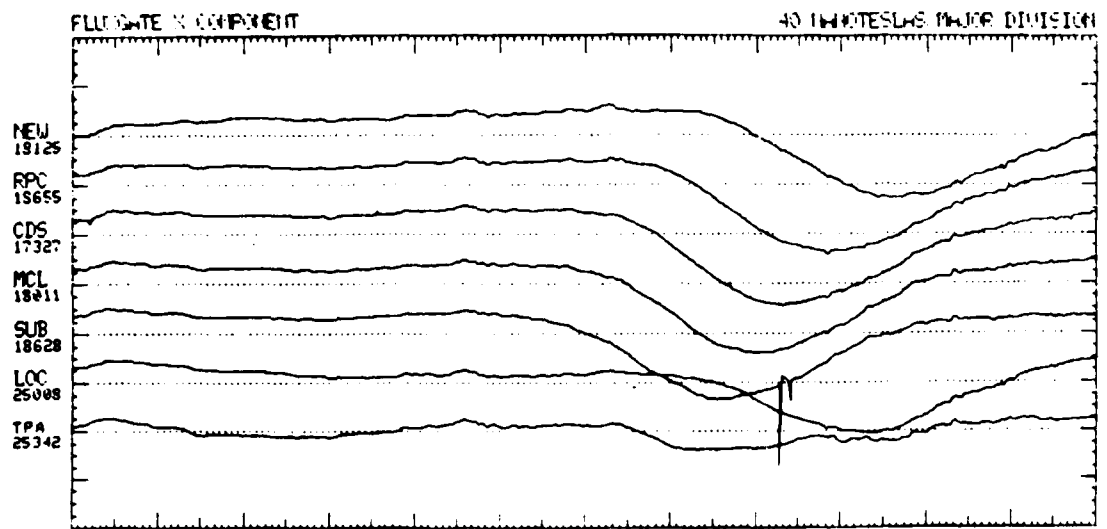
NEW
54706
PPC
54722
CDS
55489
MCL
54687
SUB
53165
LOC
42947
TPA
42807



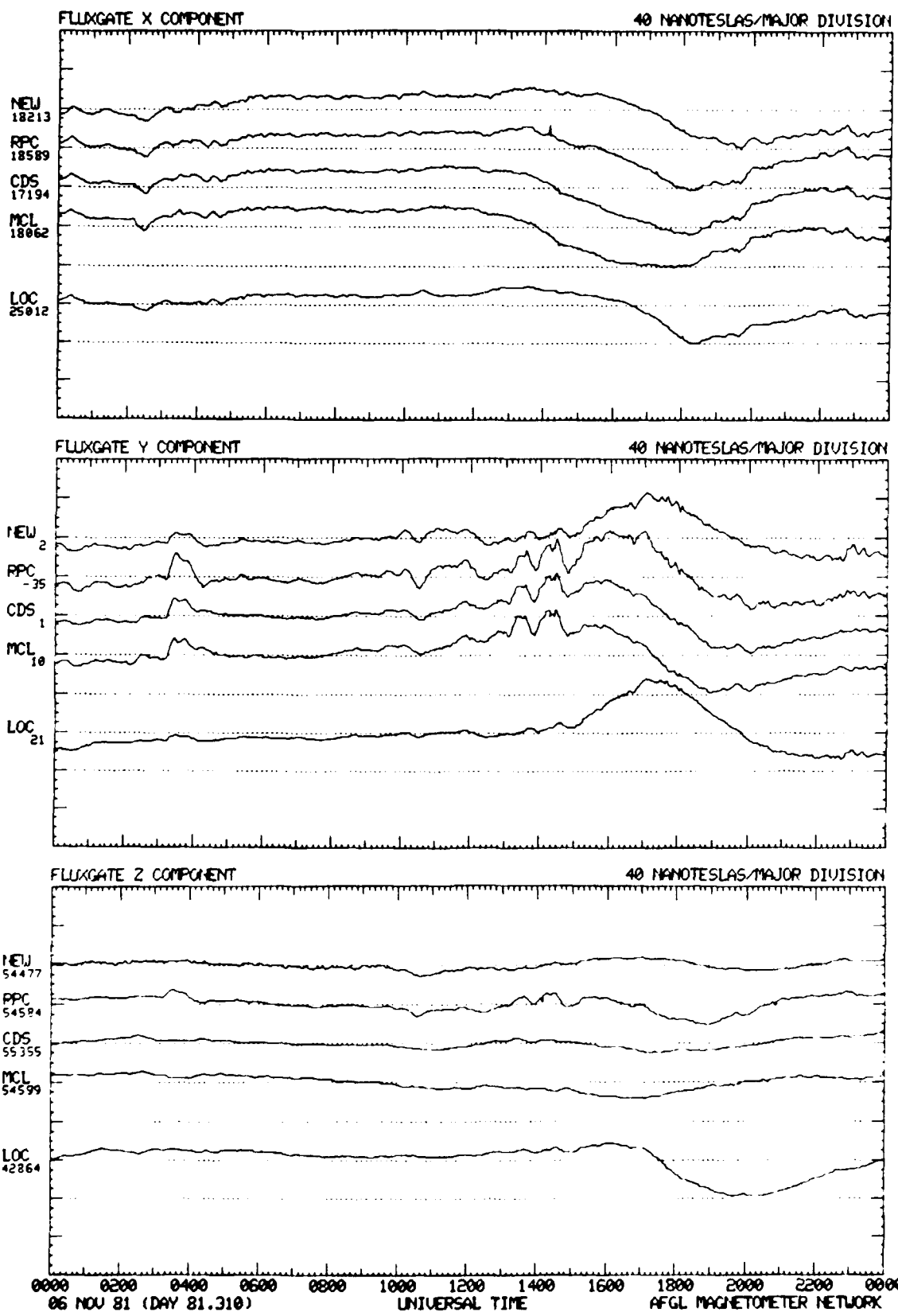
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 NOV 79 (DAY 79.307) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

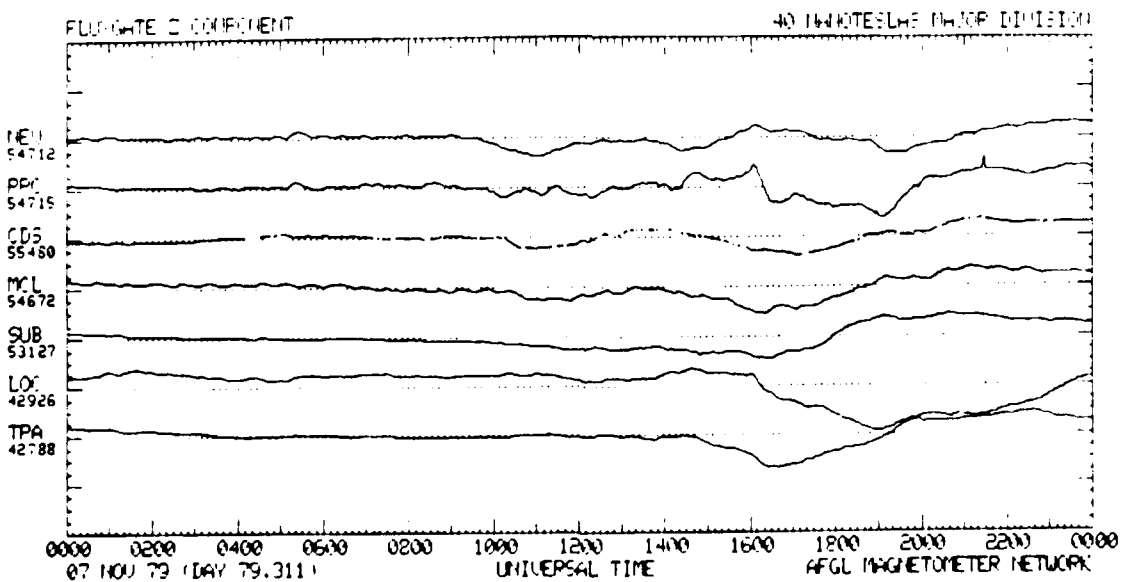
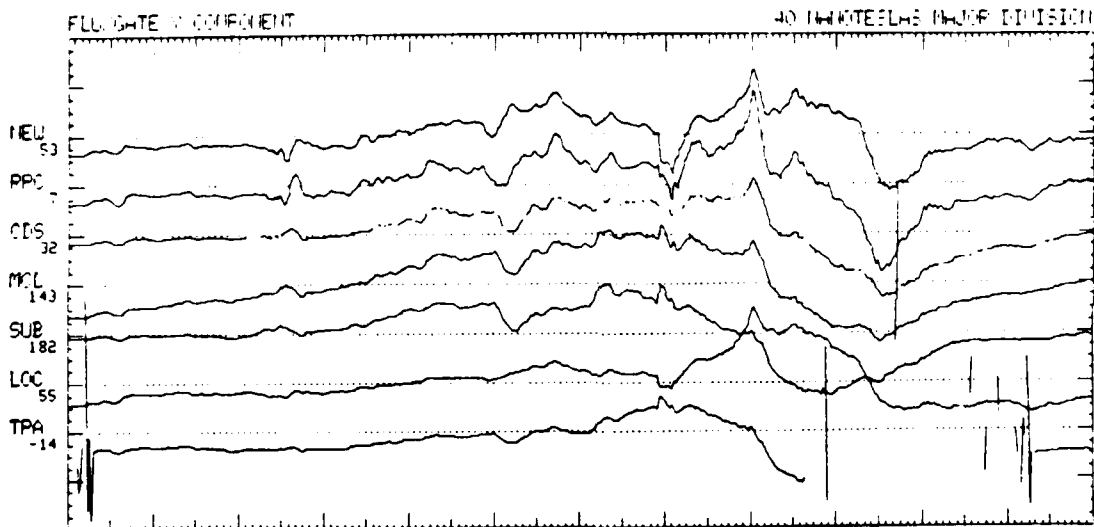
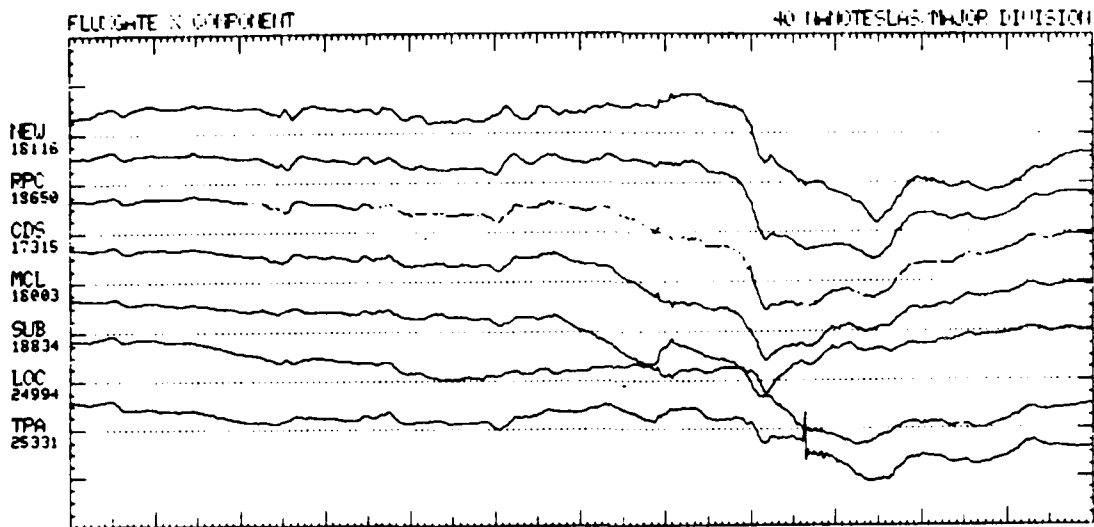


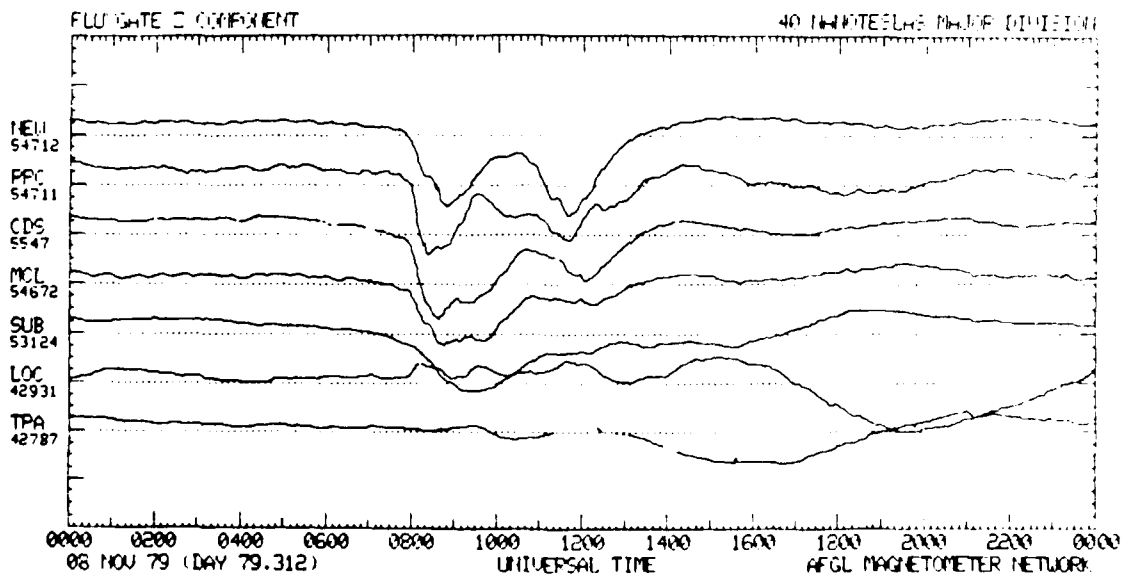
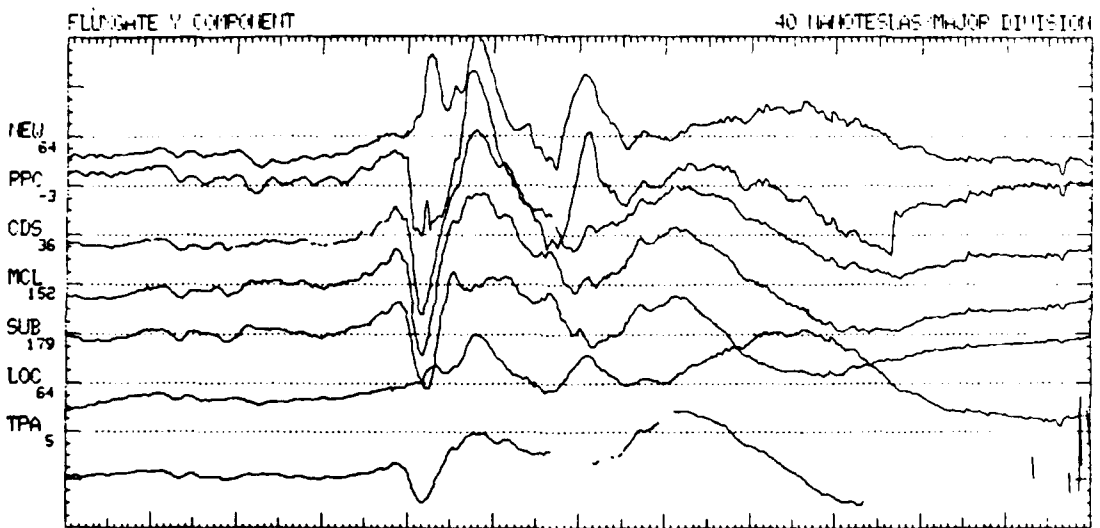
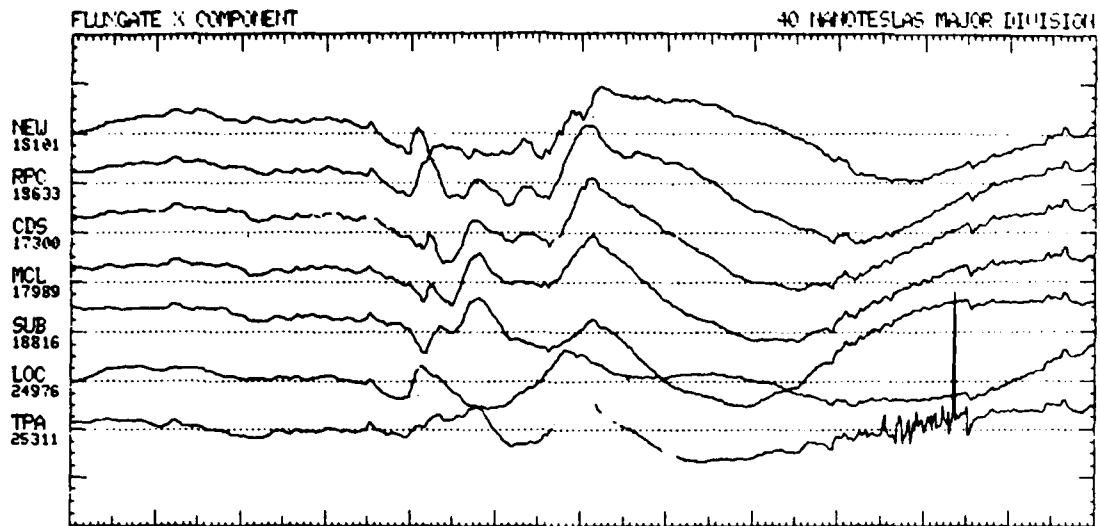
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 04 NOV 79 (DAY 79.308) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 05 NOV 79 (DAY 79.309) UNIVEPSAL TIME AFGL MAGNETOMETER NETWORK

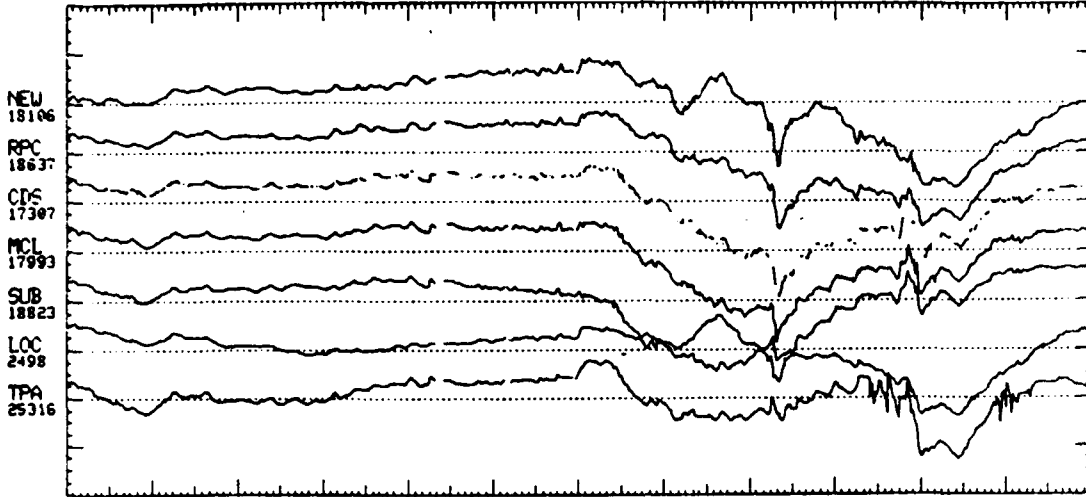






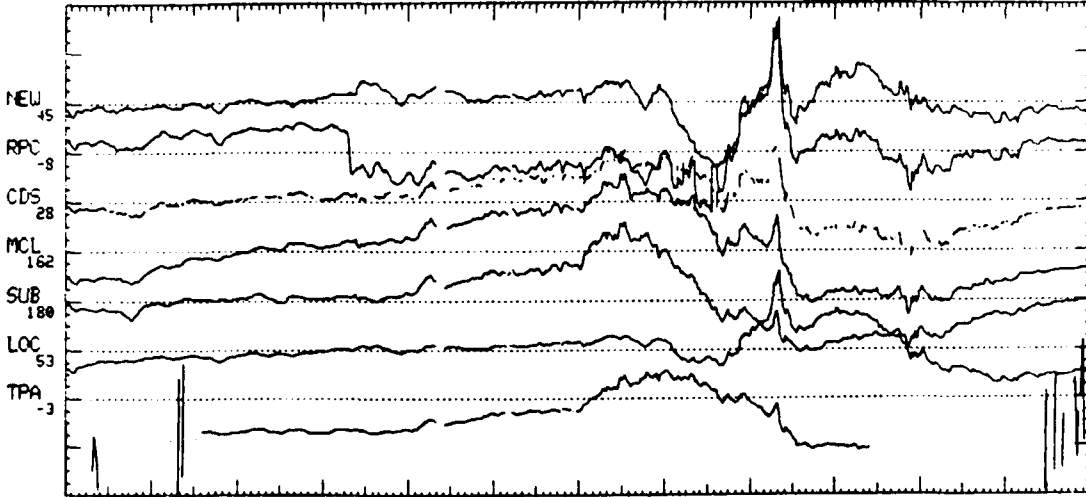
FLIGHT X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



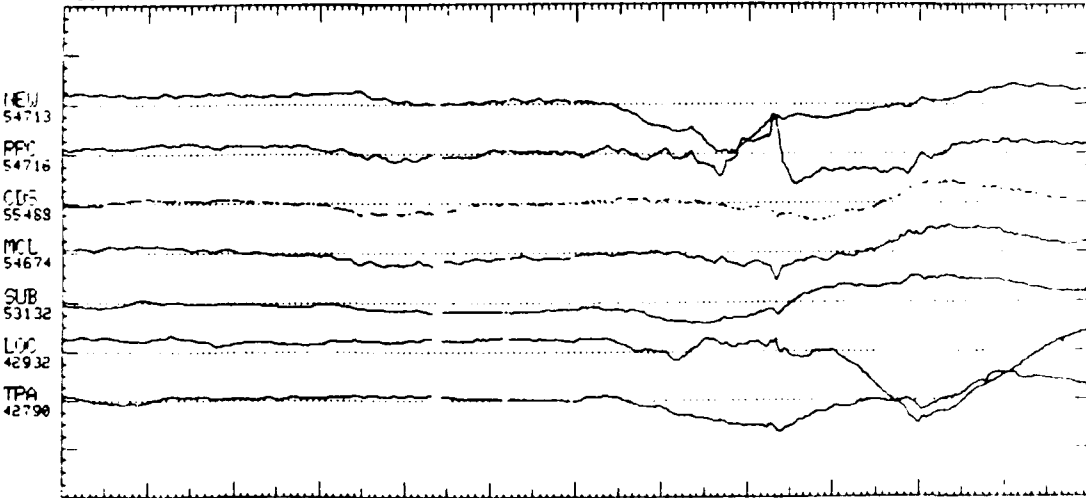
FLIGHT Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

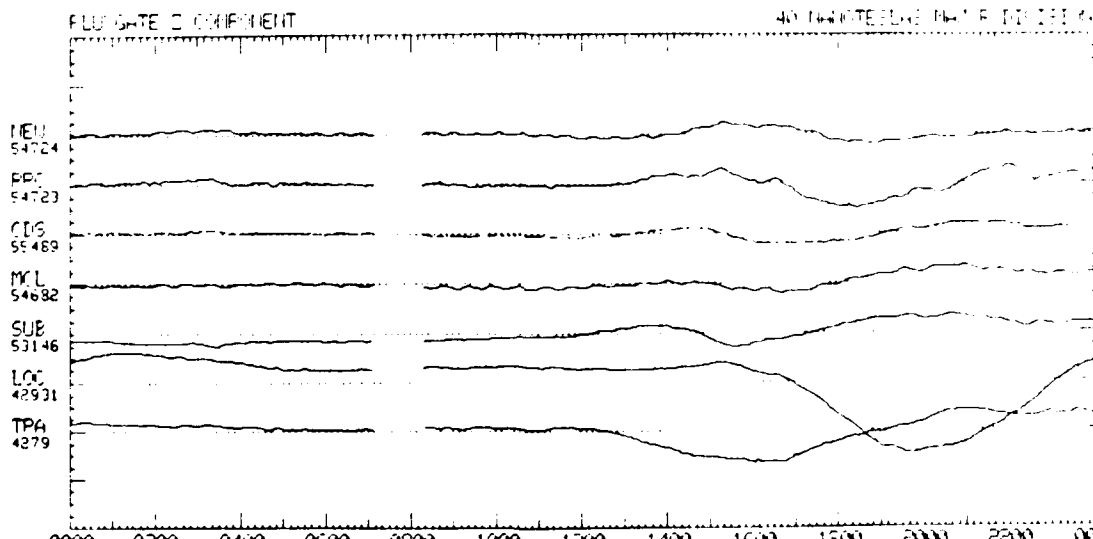
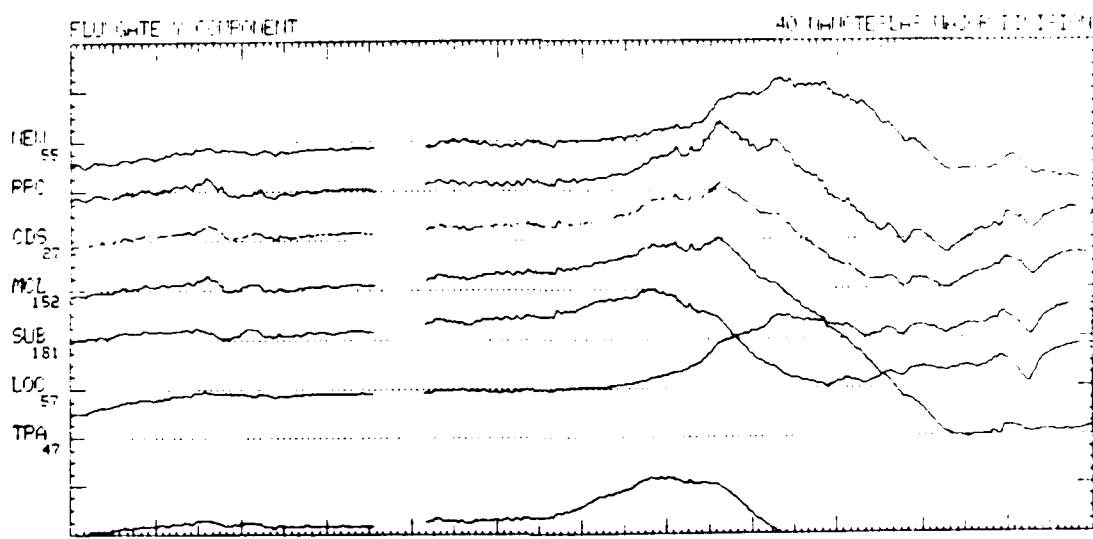
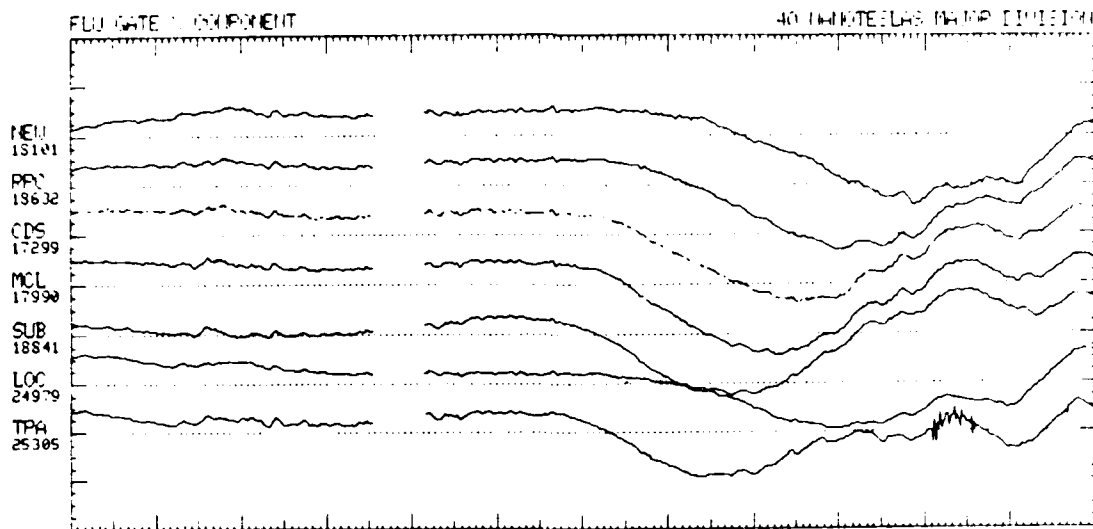


FLIGHT Z COMPONENT

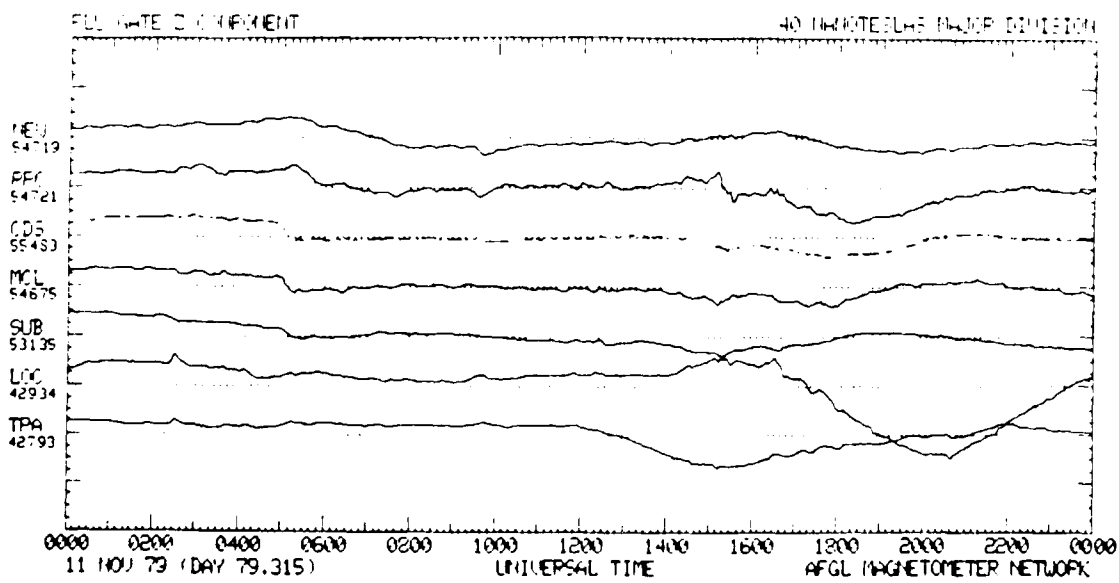
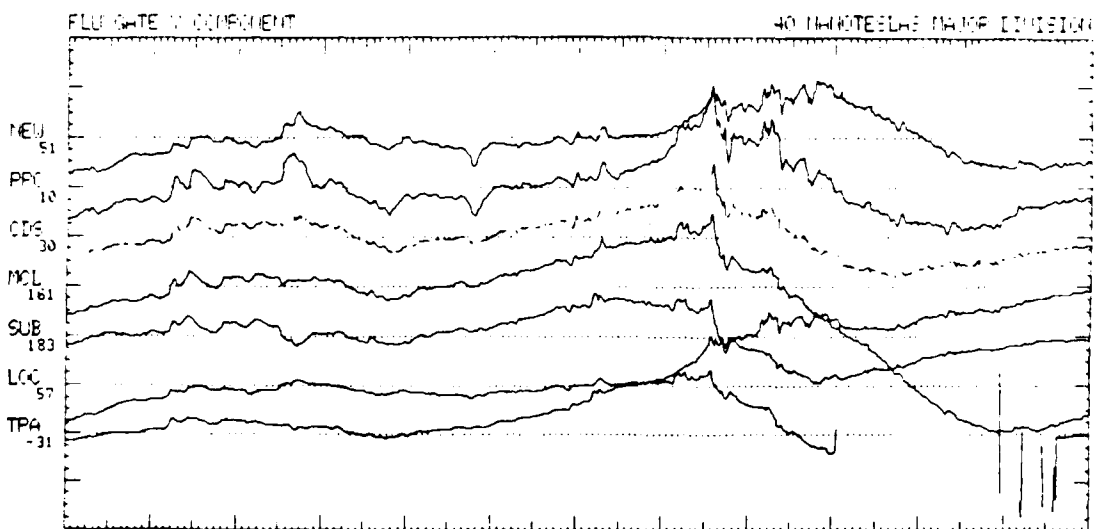
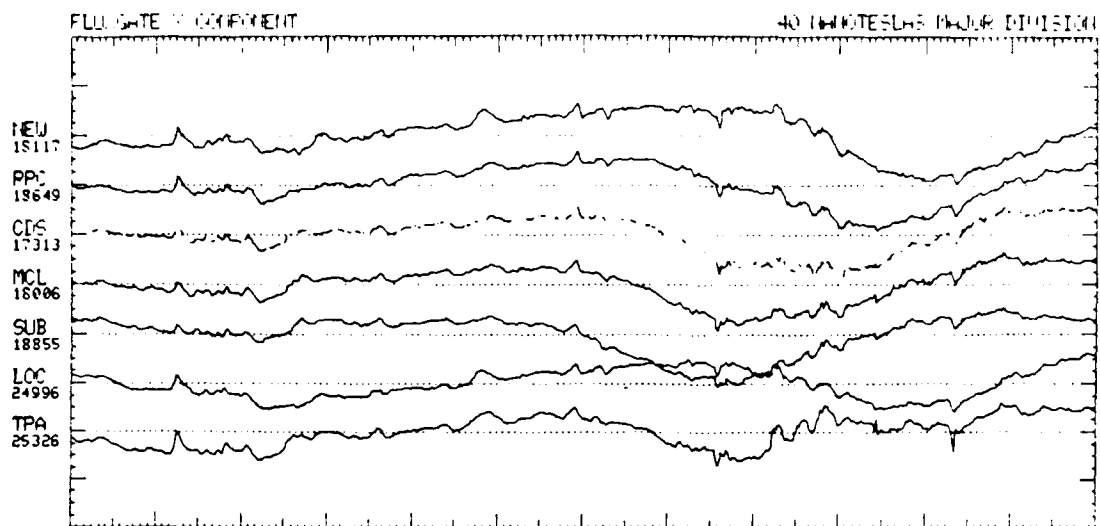
40 NANOTESLAS/MAJOR DIVISION

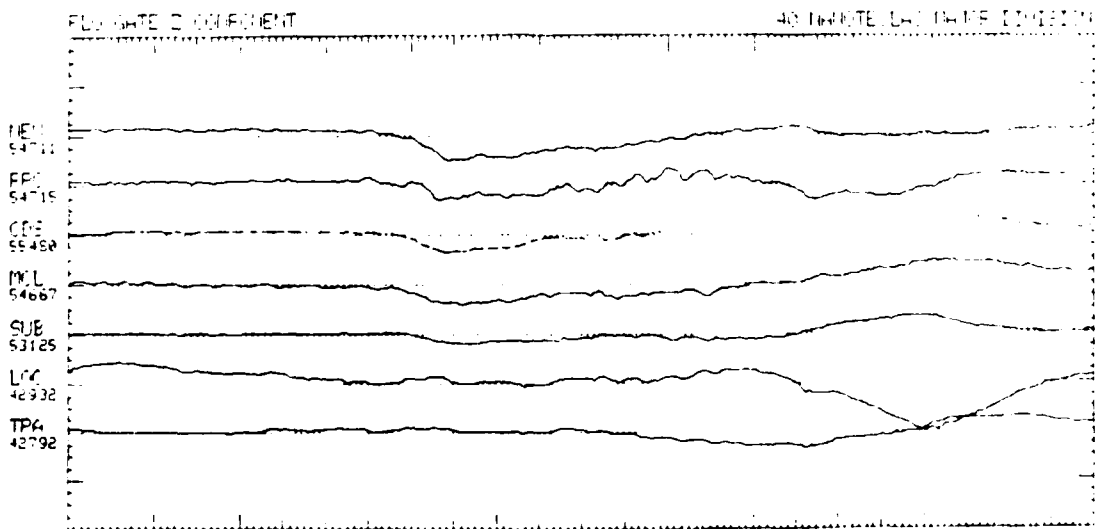
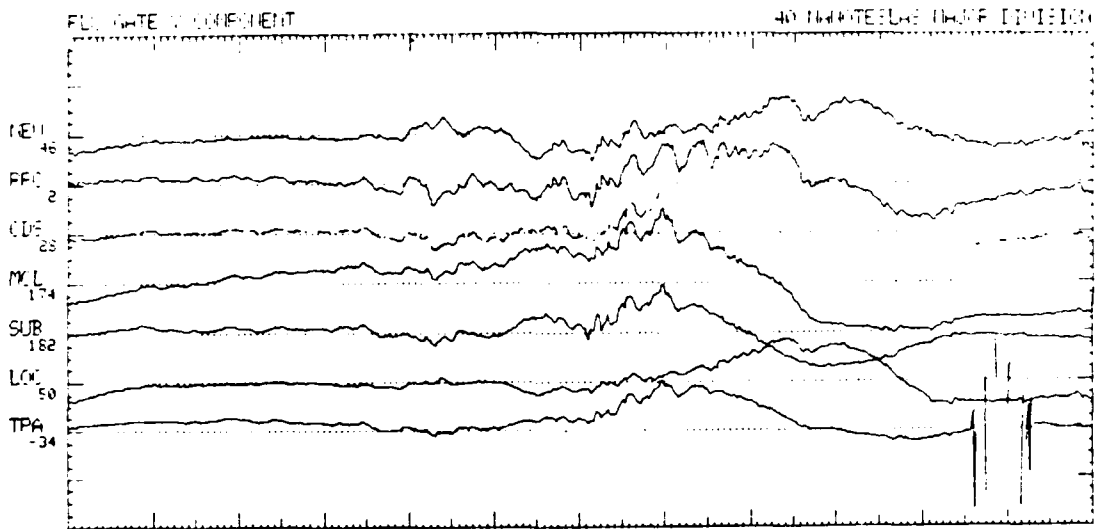
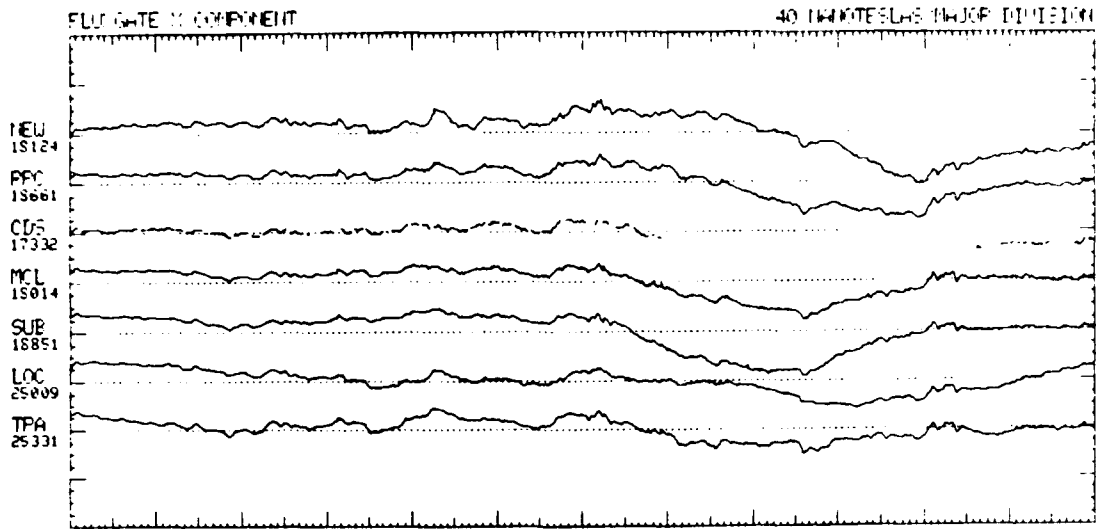


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 NOV 79 (DAY 79.313) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



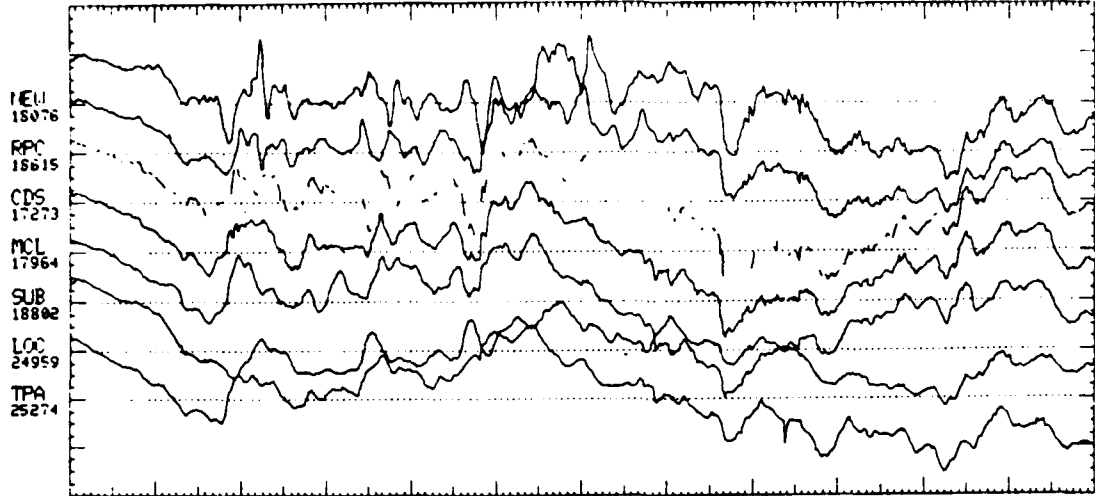
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 10 NOV 79 (DAY 79.314) UNIVERSAL TIME HFGI MAGNETOMETER NETWORK



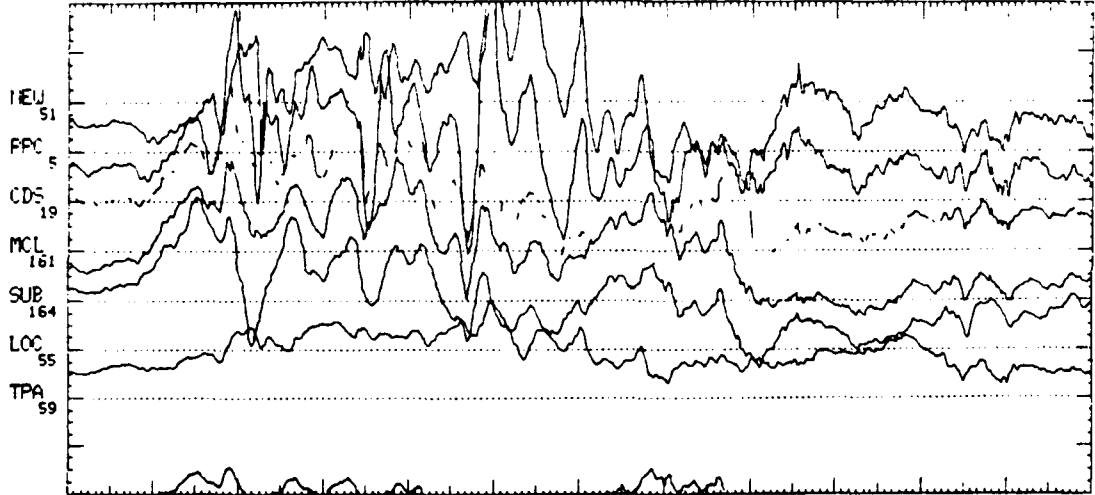


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 NOV 79 (DAY 79.316) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

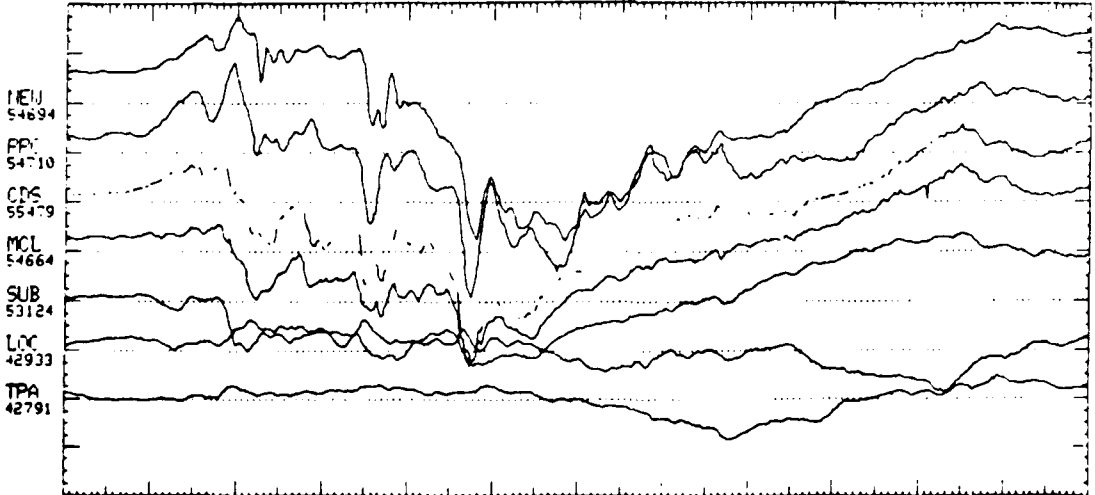
FLUX GATE COMPONENT 40 THURSTON MAJOR DIVISION



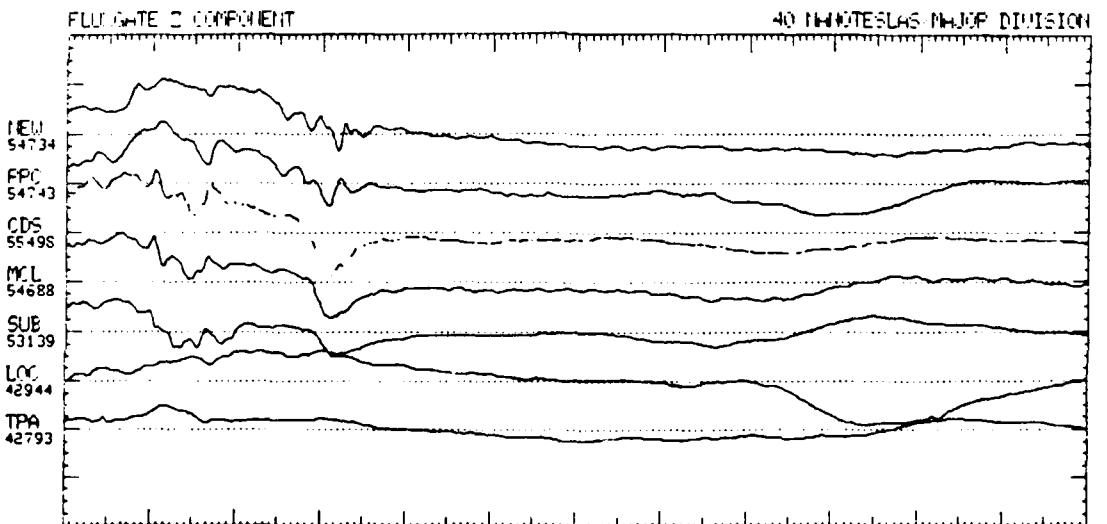
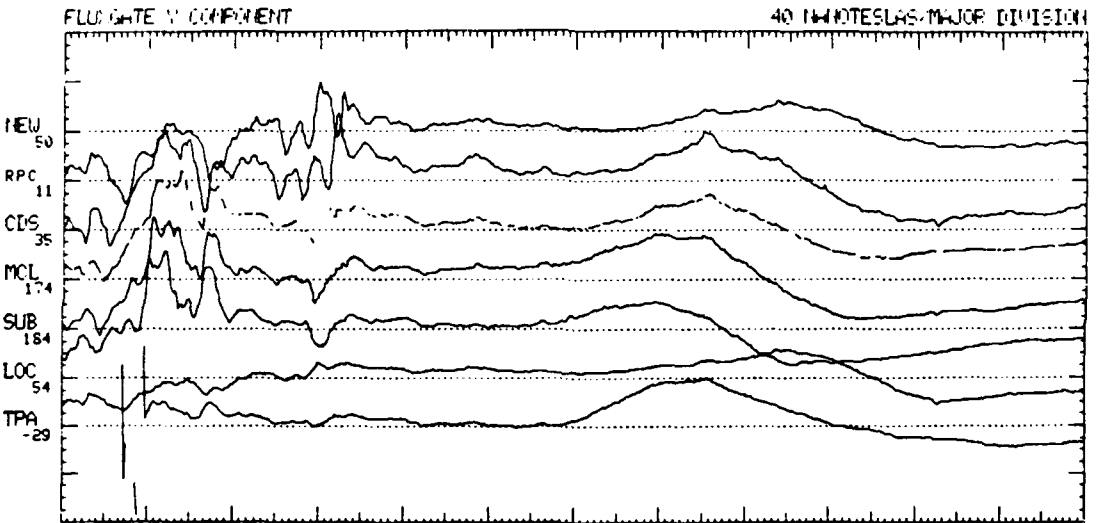
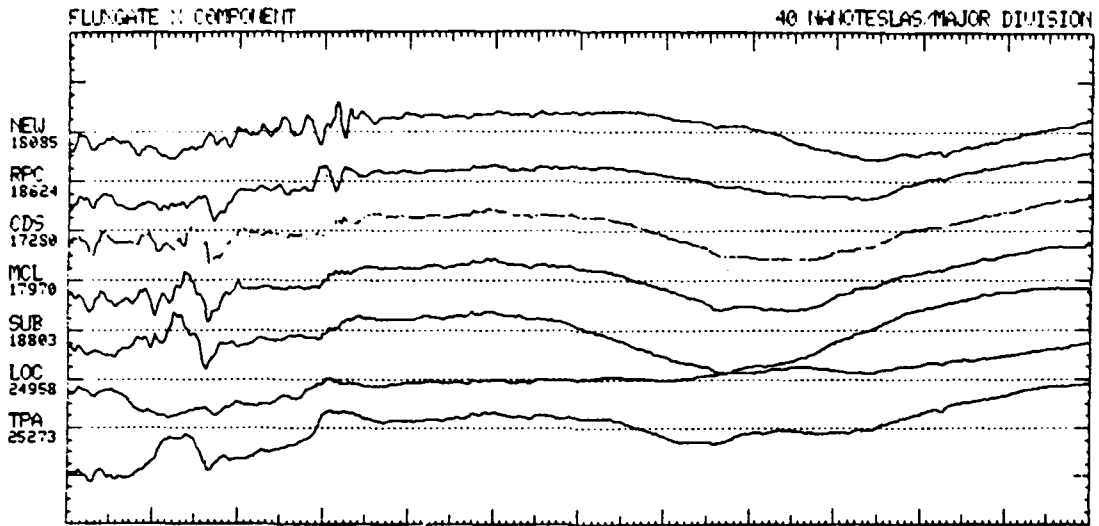
FLUX GATE Y COMPONENT 40 THURSTON MAJOR DIVISION



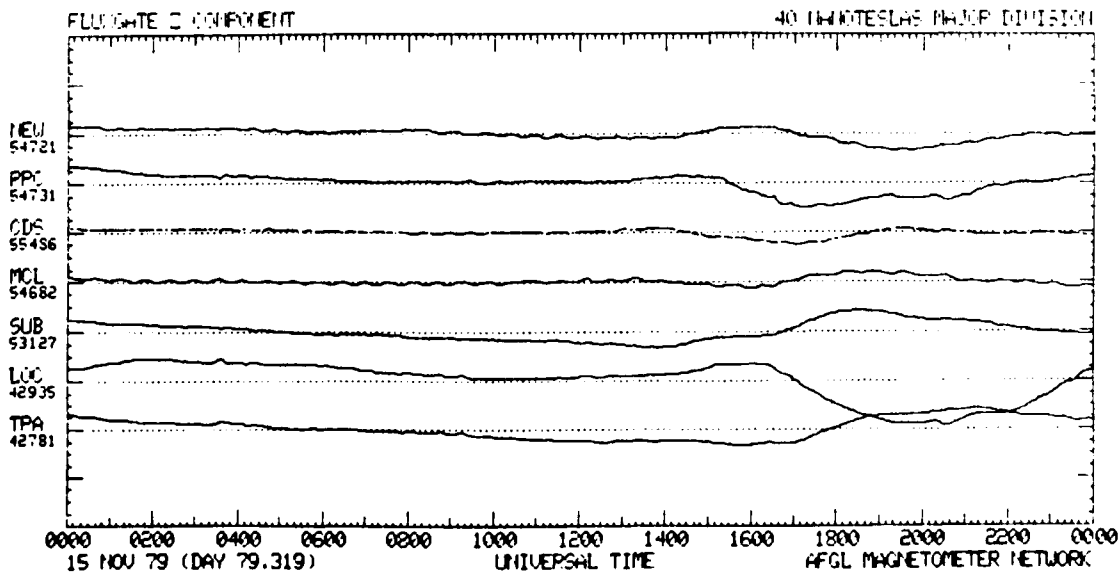
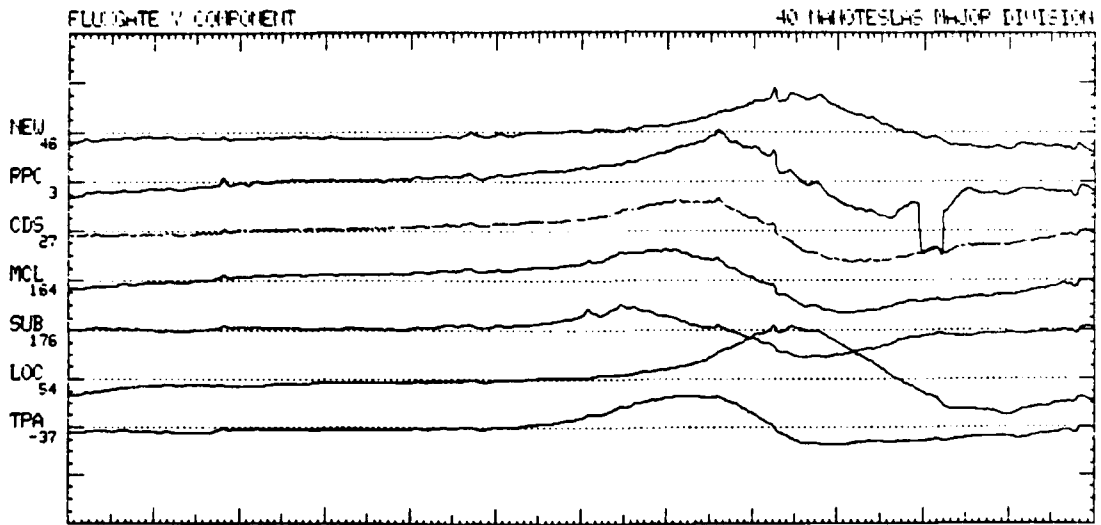
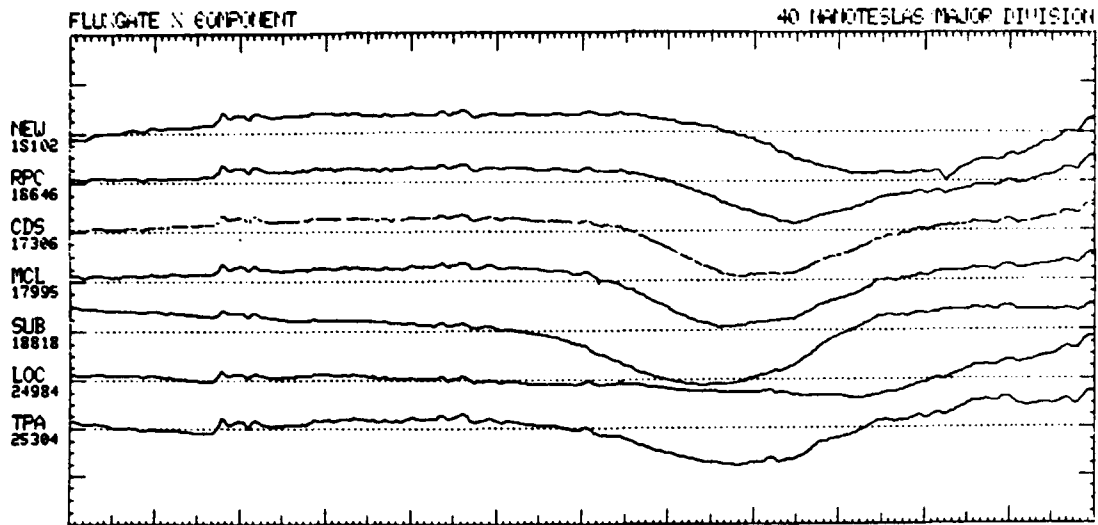
FLUX GATE Z COMPONENT 40 THURSTON MAJOR DIVISION

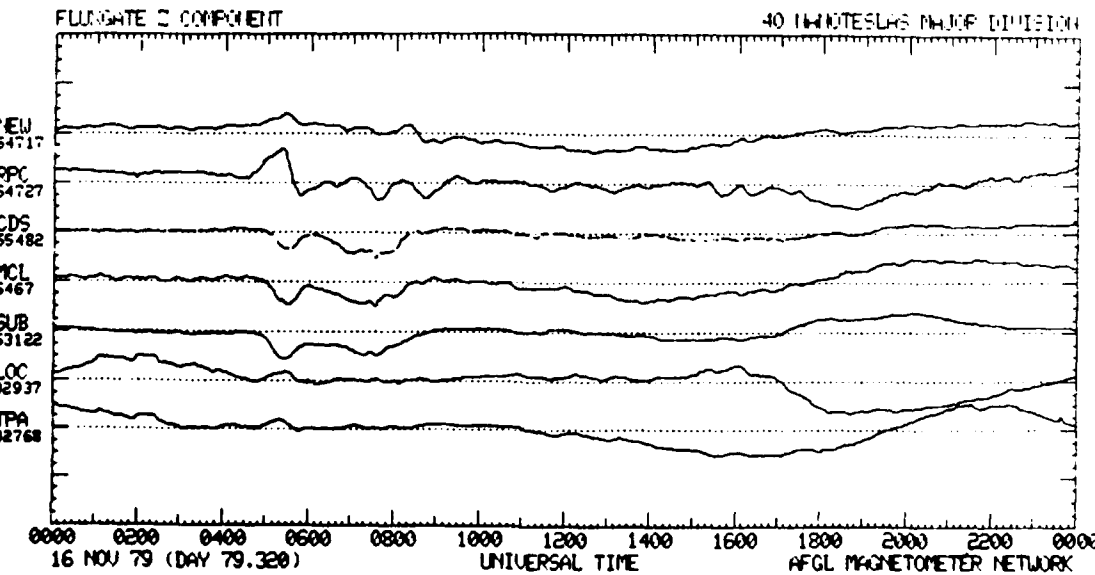
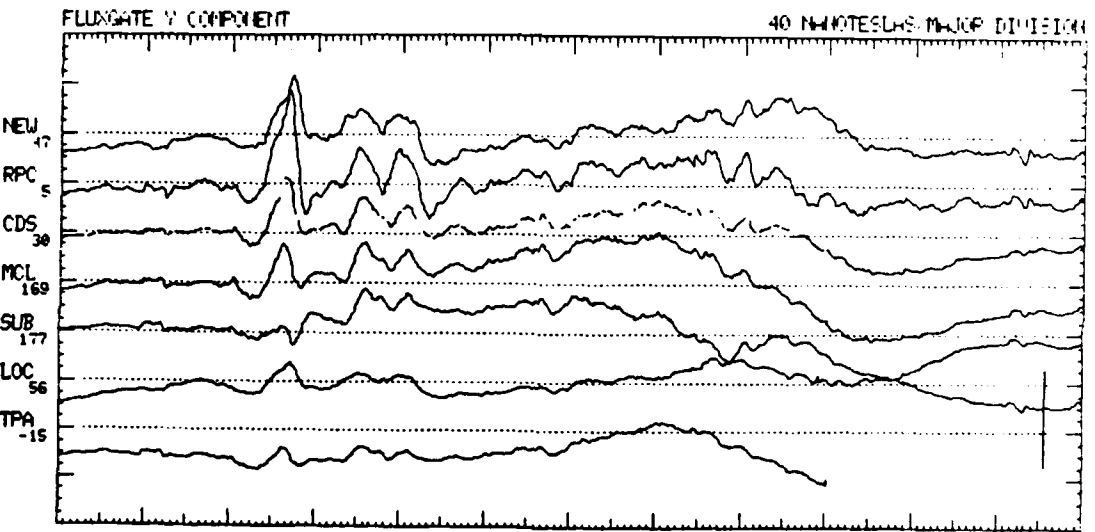
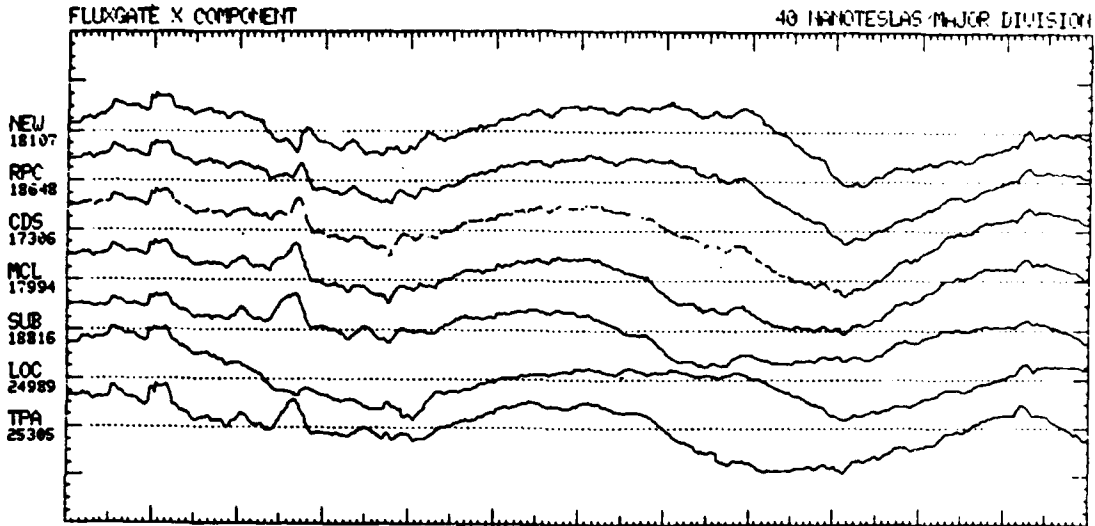


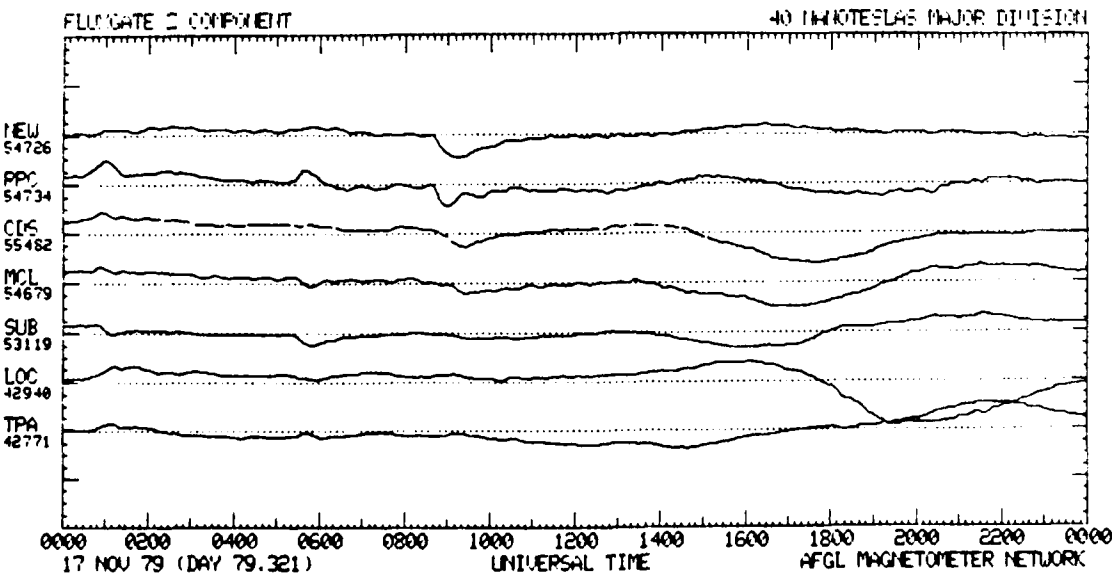
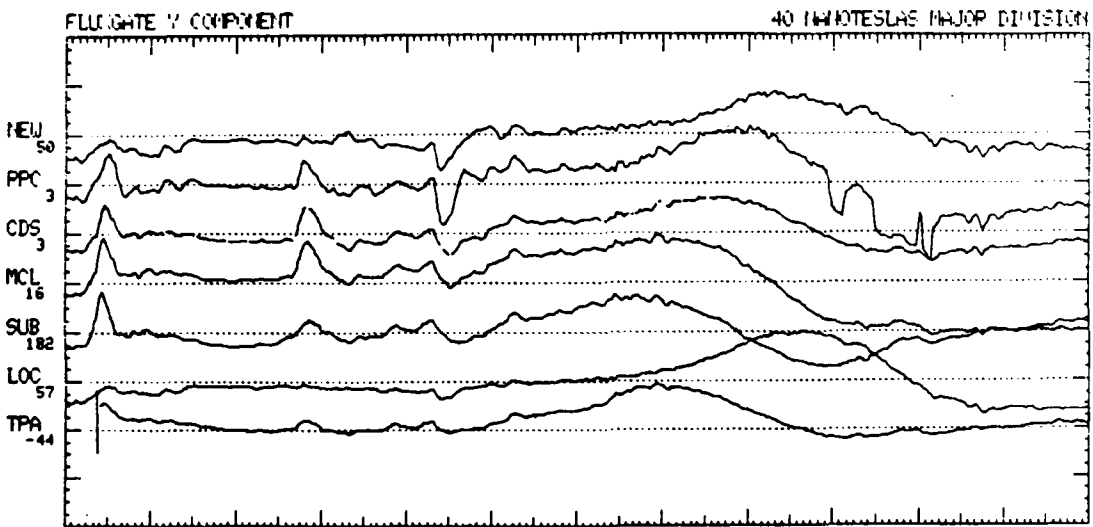
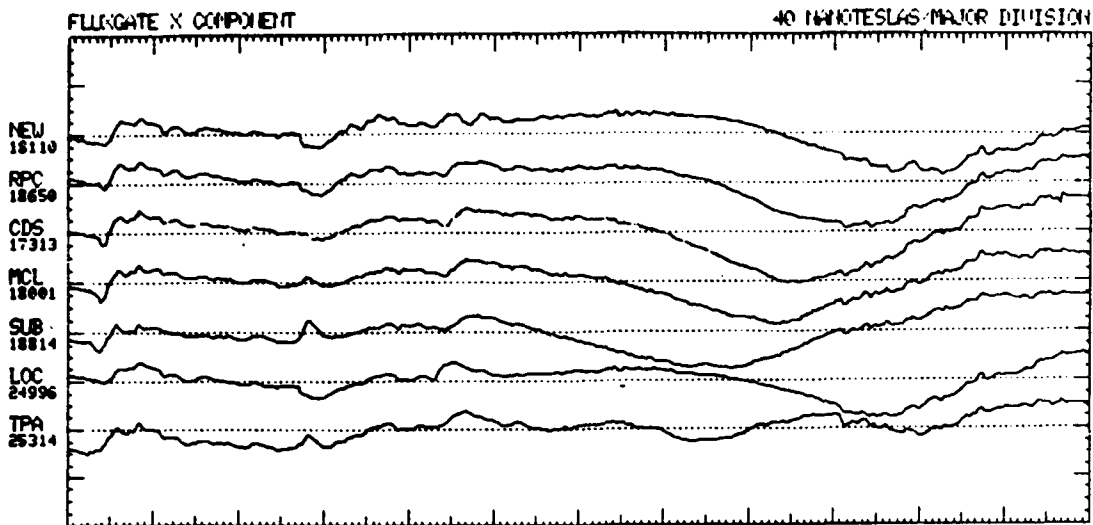
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 13 NOV 79 (DAY 79.317) ▶ UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

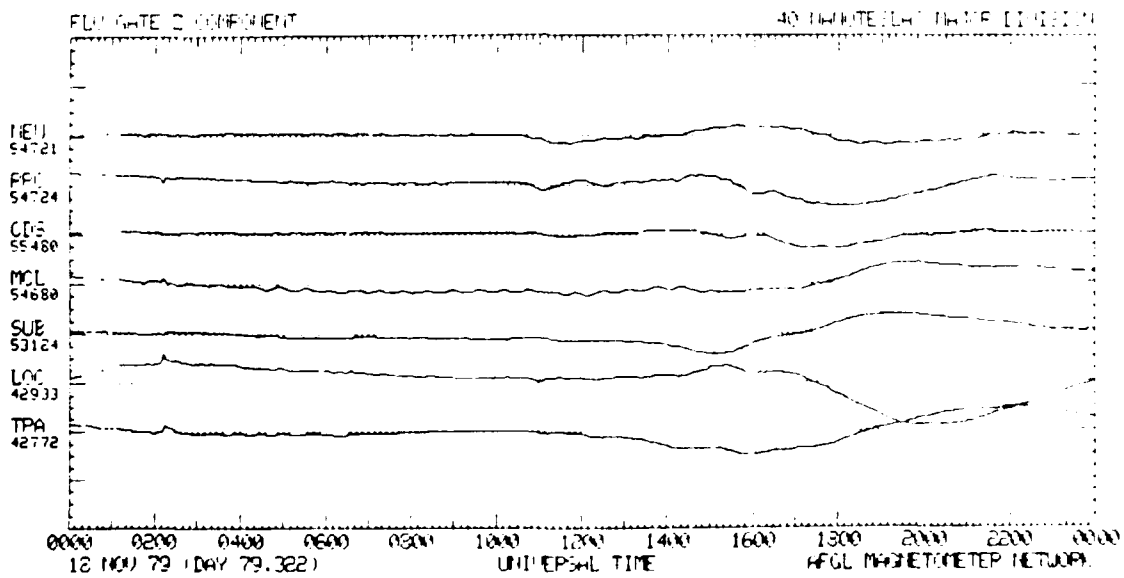
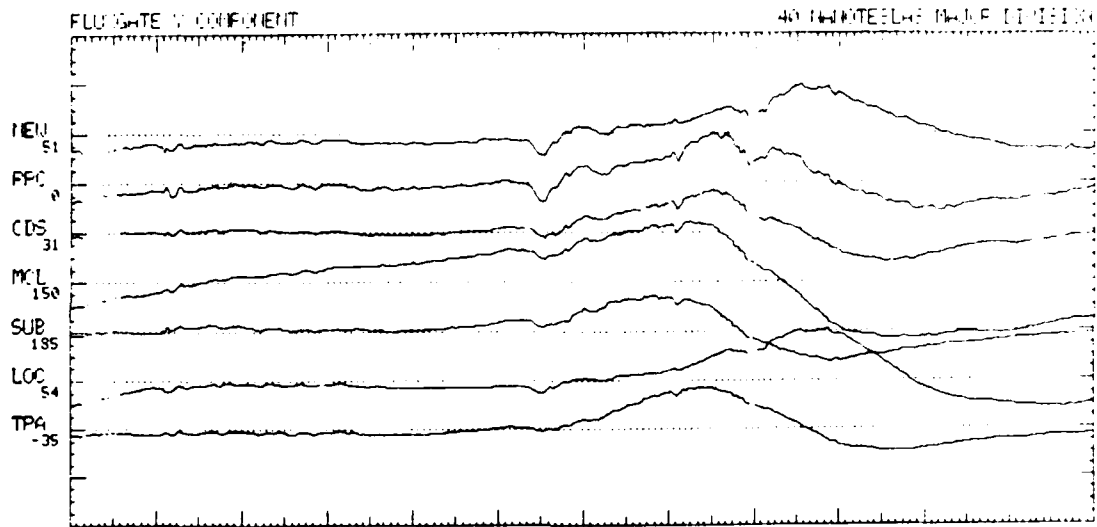
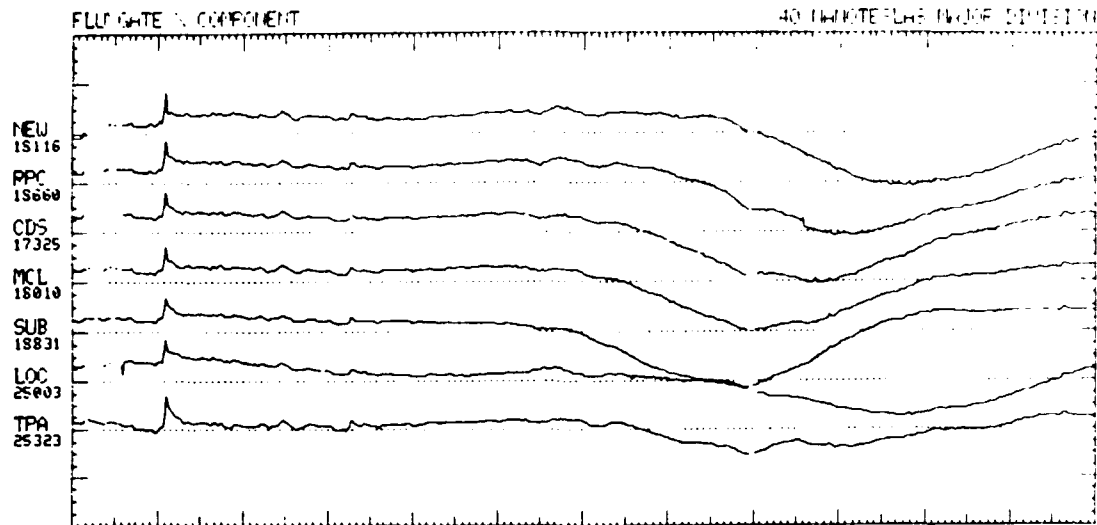


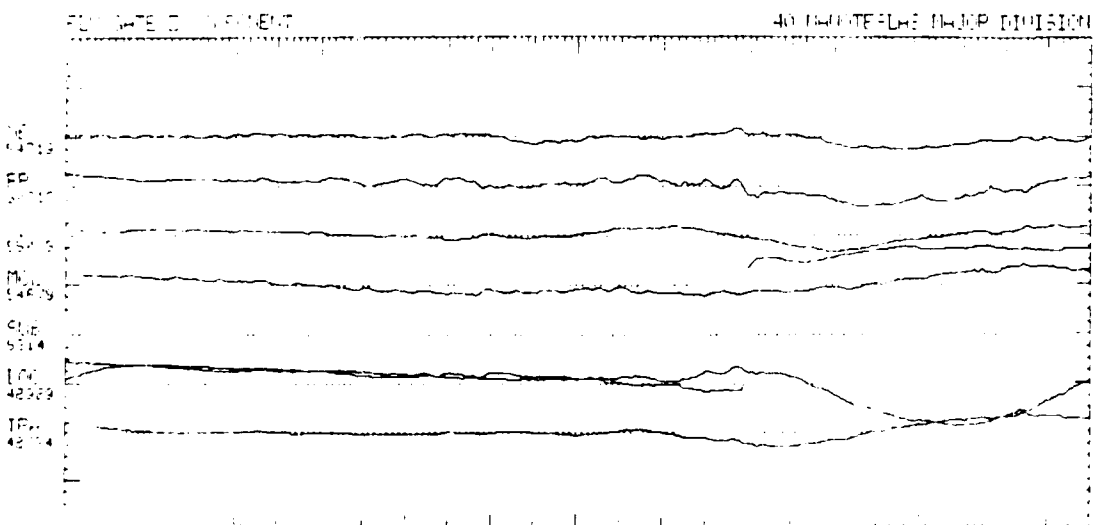
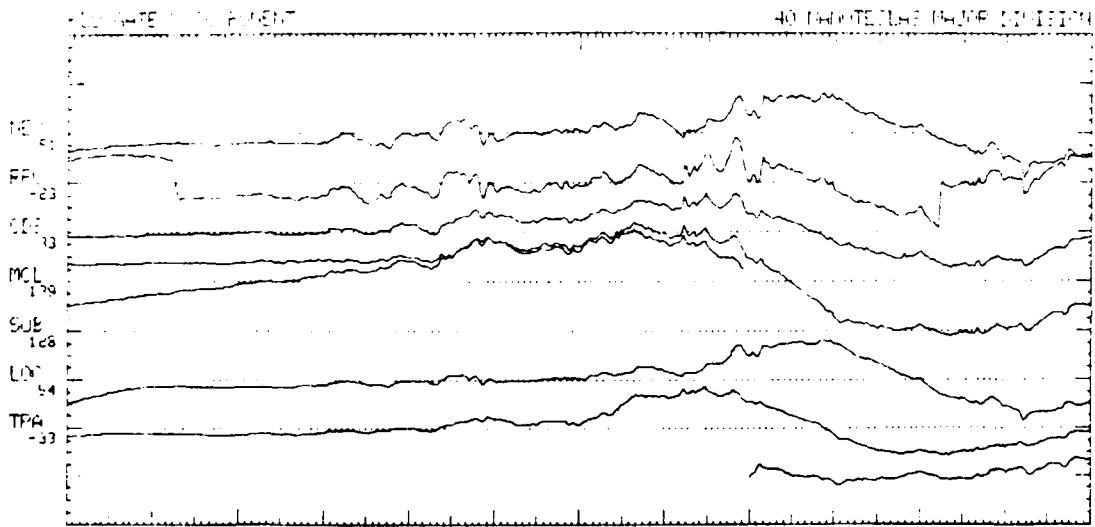
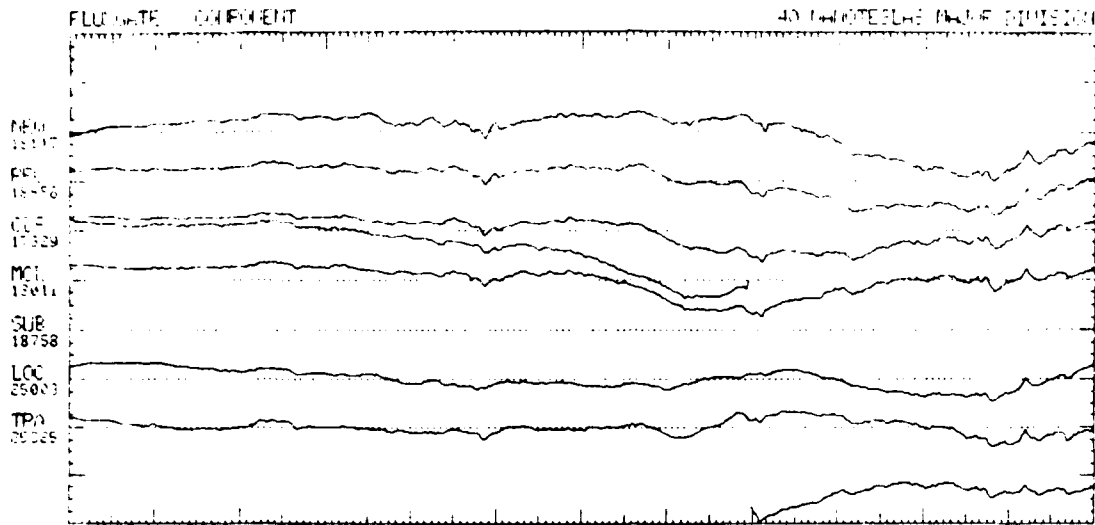
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 14 NOV 79 (DAY 79.318) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



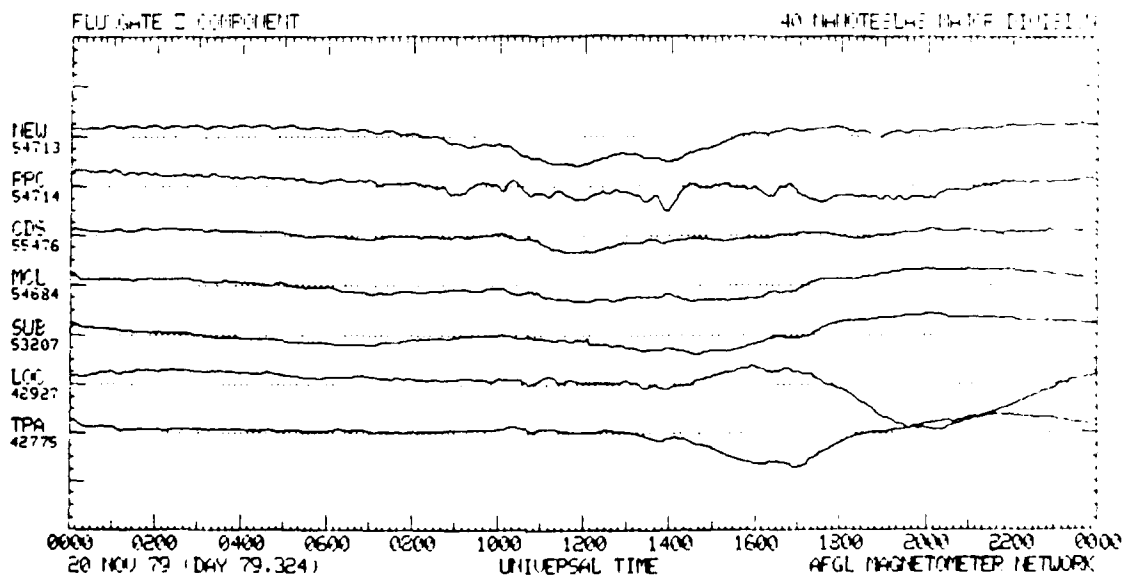
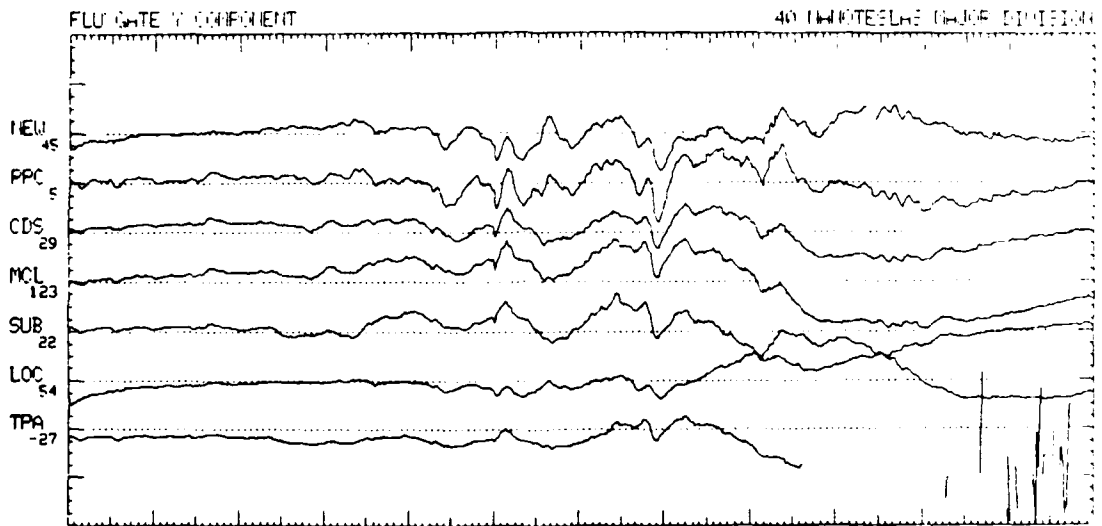
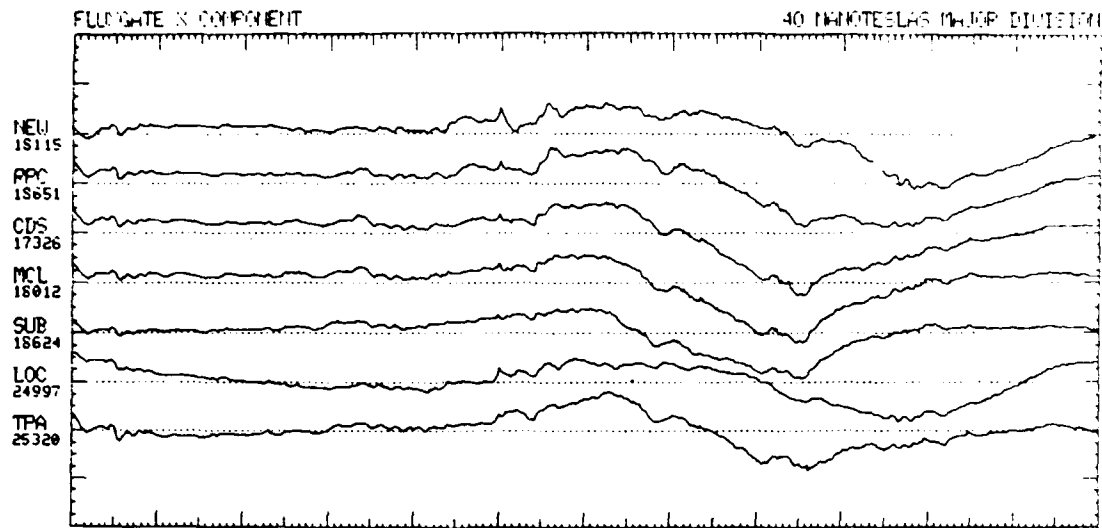


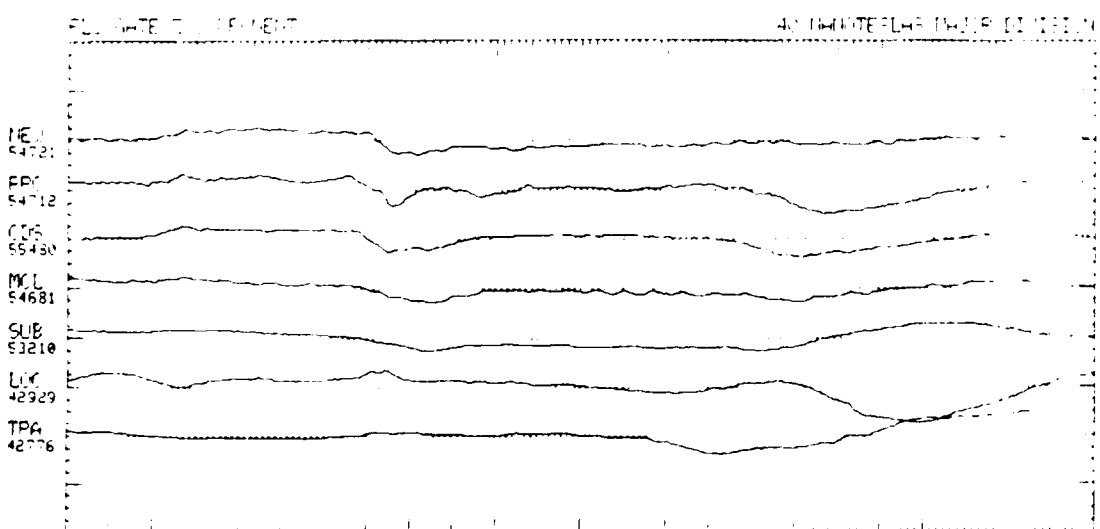
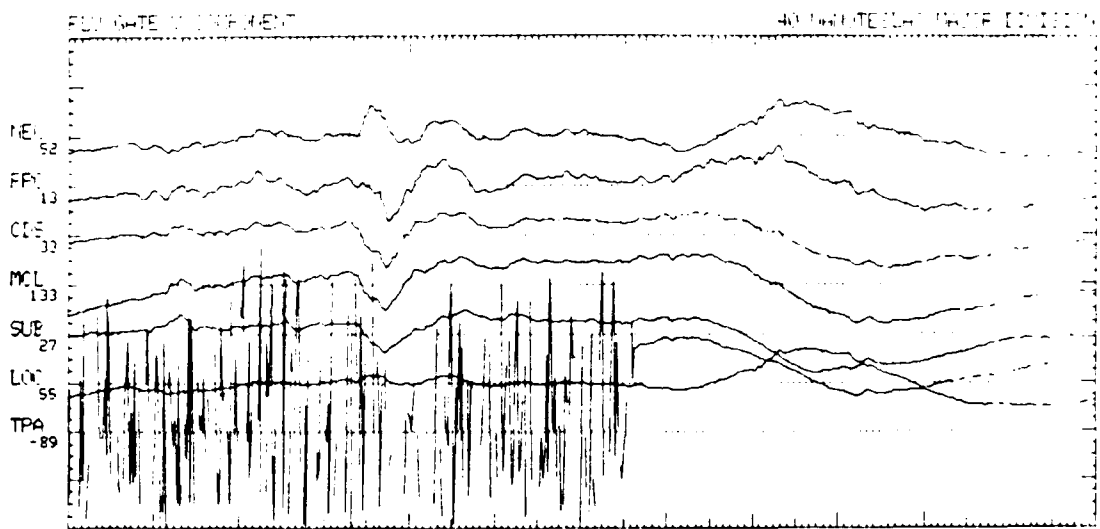
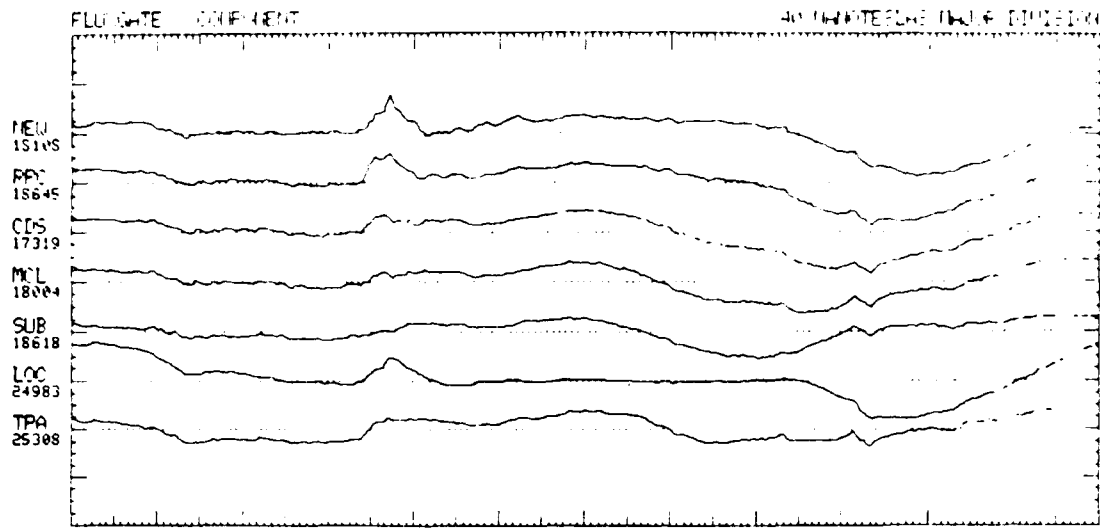






0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 19 NOV 79 (DAY 79.323) UNIVERSAL TIME HFSL MAGNETOMETER NETWORK



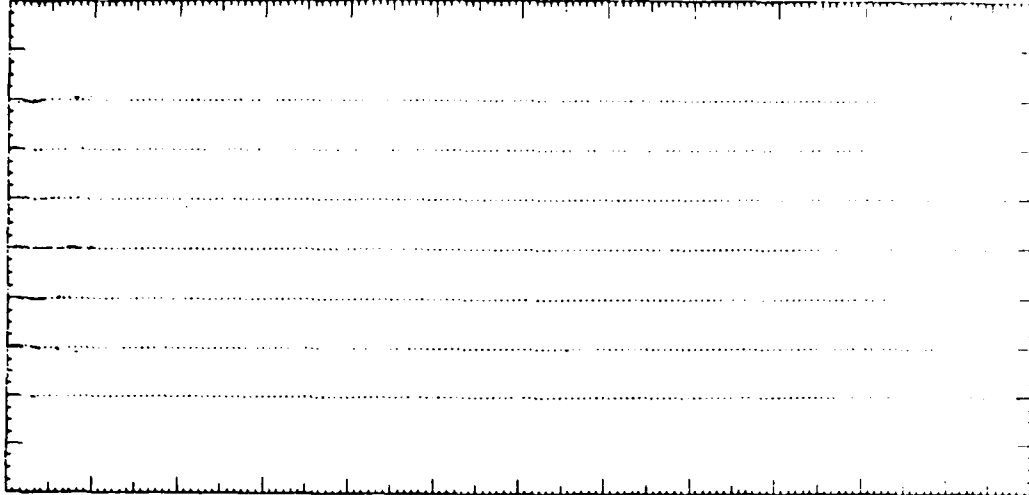


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 21 NOV 79 (DAY 79.325) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTLINE COMPONENT

40 INDIANAPOLIS INAMP DIVISION

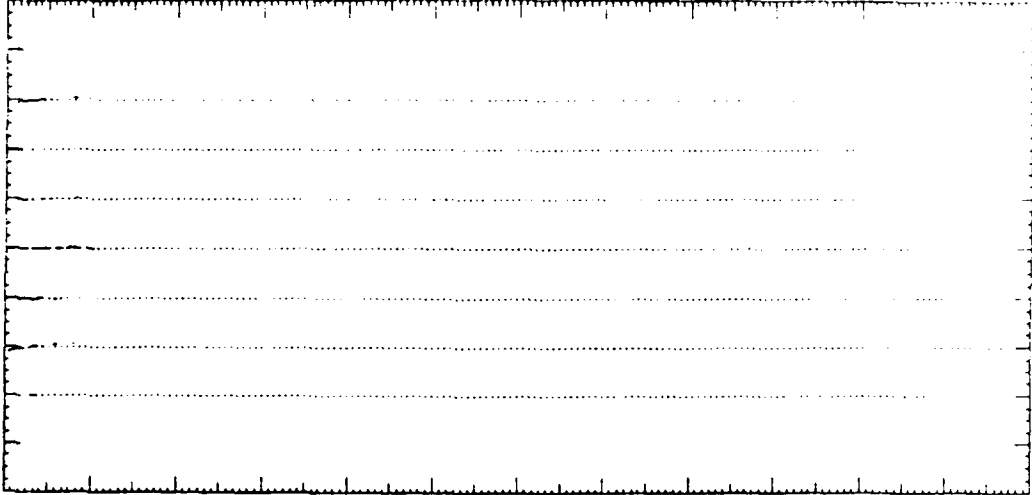
NEW
15115
PPC
15658
CDS
17333
MCL
18021
SUB
18629
LOC
25011
TPA
25323



FLIGHTLINE COMPONENT

40 INDIANAPOLIS INAMP DIVISION

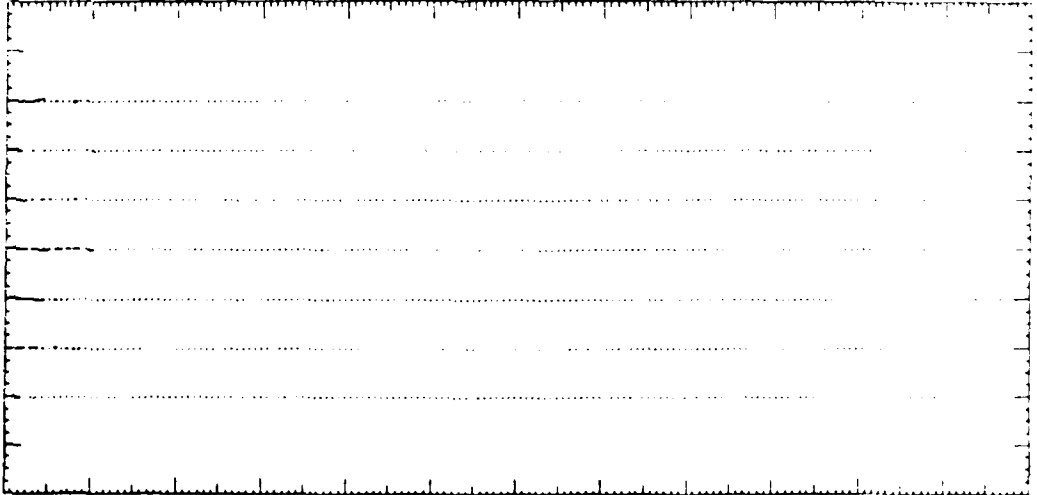
NEW
42
PPC
4
CDS
30
MCL
12
SUB
24
LOC
44
TPA
-33



FLIGHTLINE COMPONENT

40 INDIANAPOLIS INAMP DIVISION

NEW
54723
PPC
54717
CDS
55482
MCL
54682
SUB
5320
LOC
42939
TPA
42786



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 NOV 79 (DAY 79.326) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLY DATE: 19 SEP 79

40 INCH TELETYPE UNIT DIVISION

NEU
15115

PPN
15655

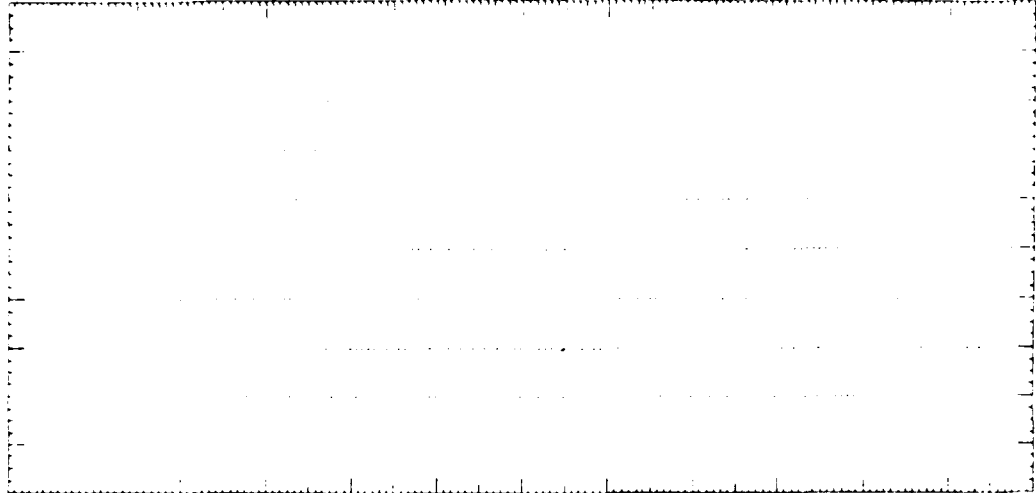
ODS
17333

MPL
18321

SUE
18629

LXC
25011

TPA
25323



FLY DATE: 19 SEP 79

40 INCH TELETYPE UNIT DIVISION

NEU
40

PPN
4

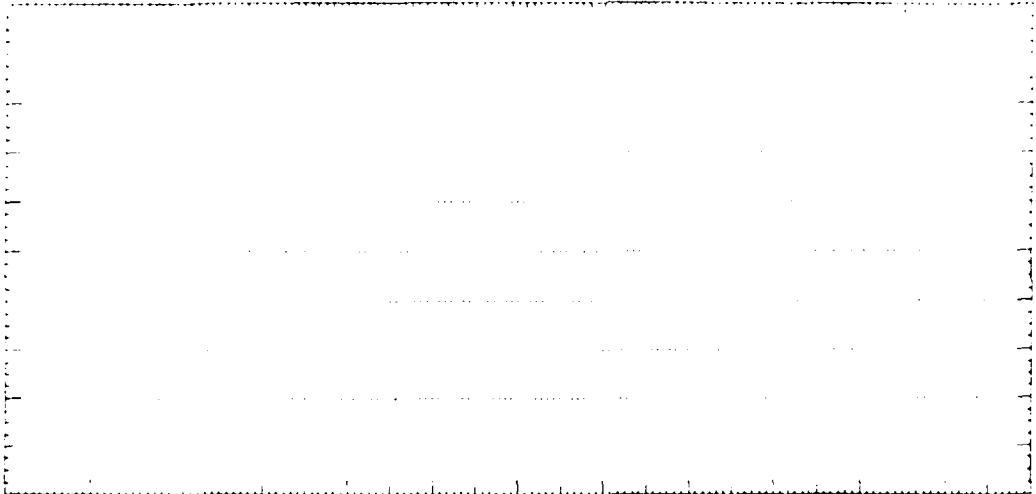
ODS
30

MPL
125

SUE
24

LXC
44

TPA
-33



FLY DATE: 19 SEP 79

40 INCH TELETYPE UNIT DIVISION

NEU
54753

PPN
54757

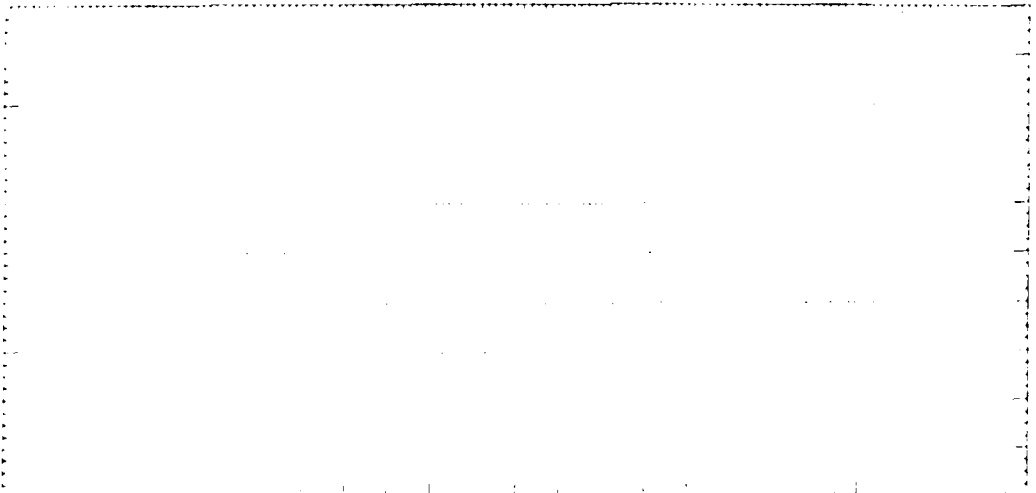
ODS
67422

MPL
54752

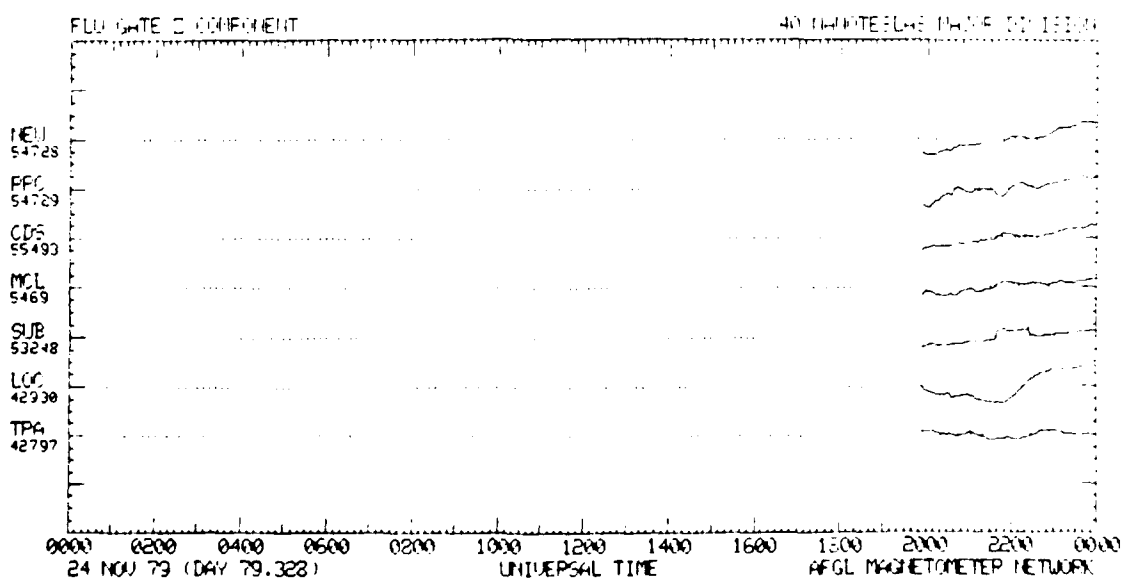
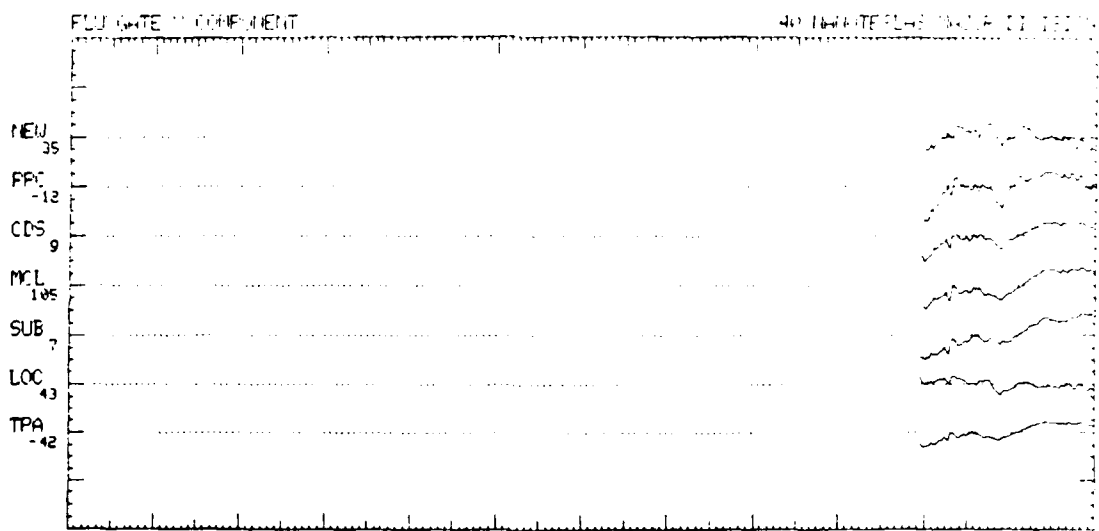
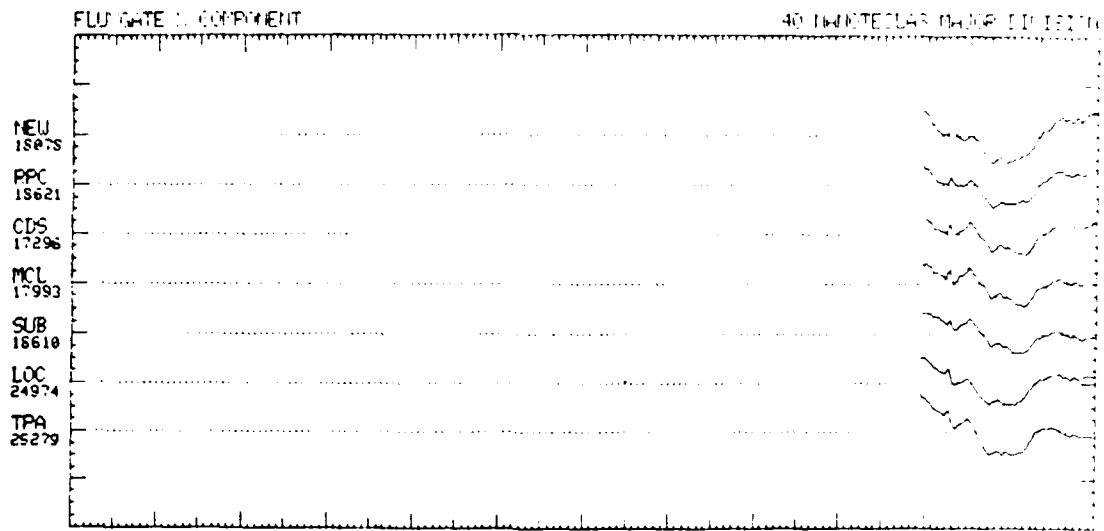
SUE
51209

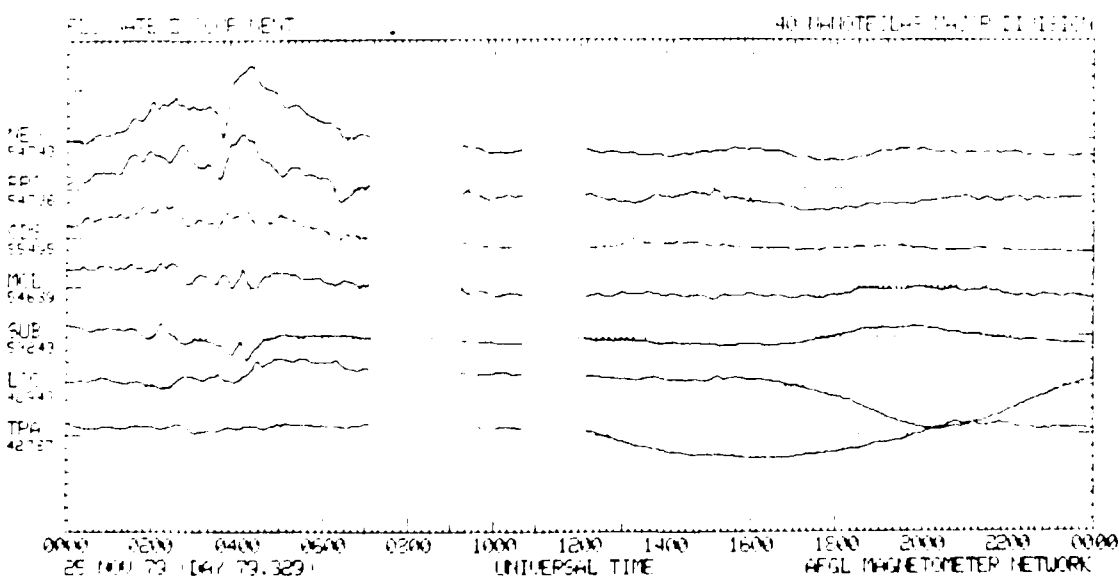
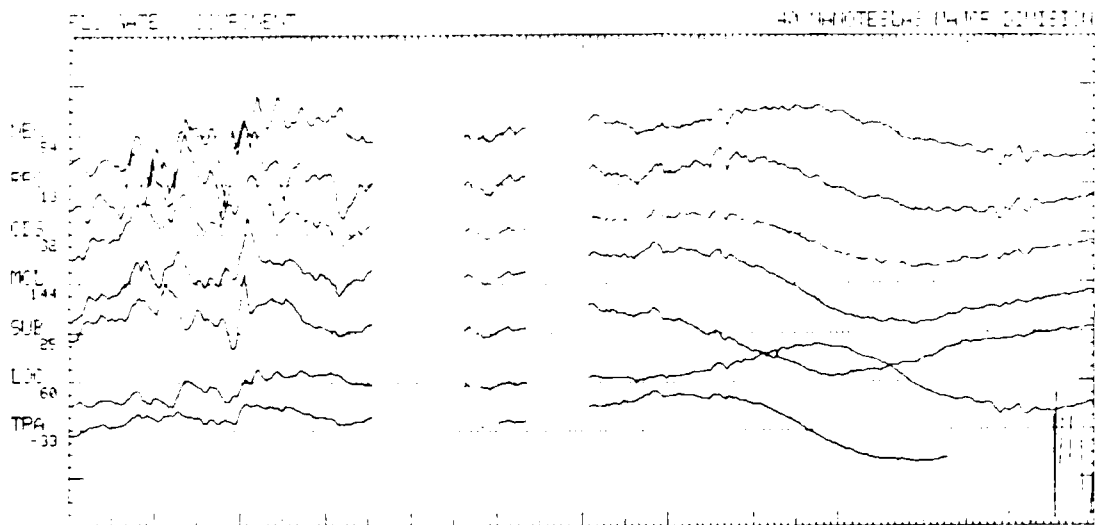
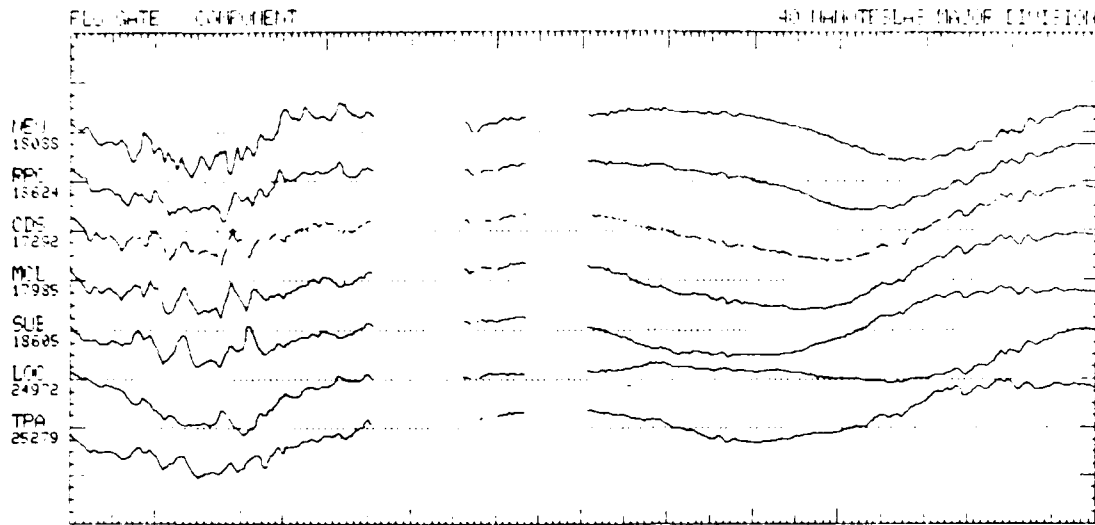
LXC
42755

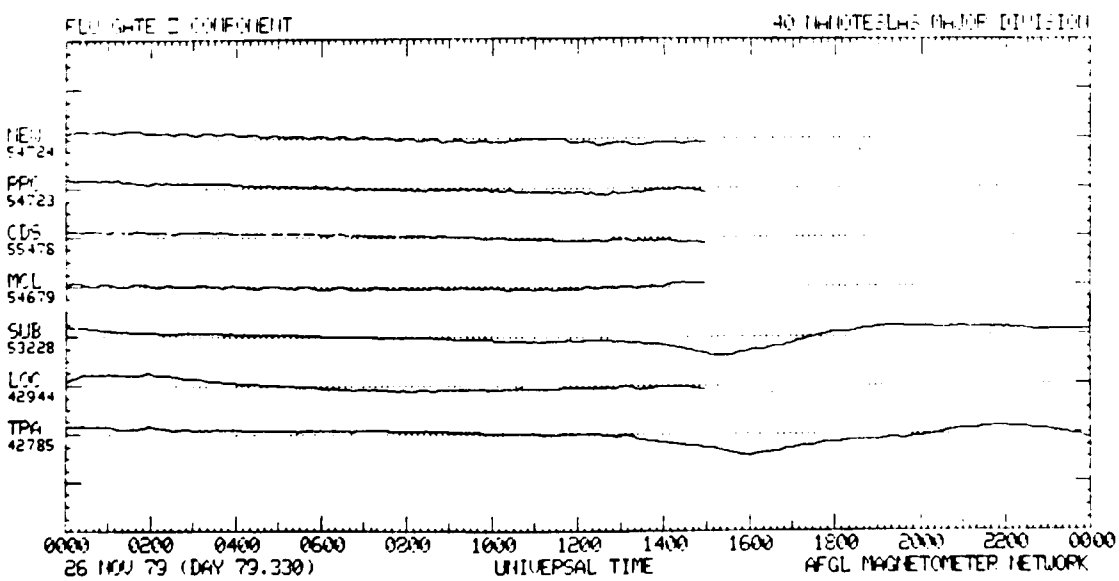
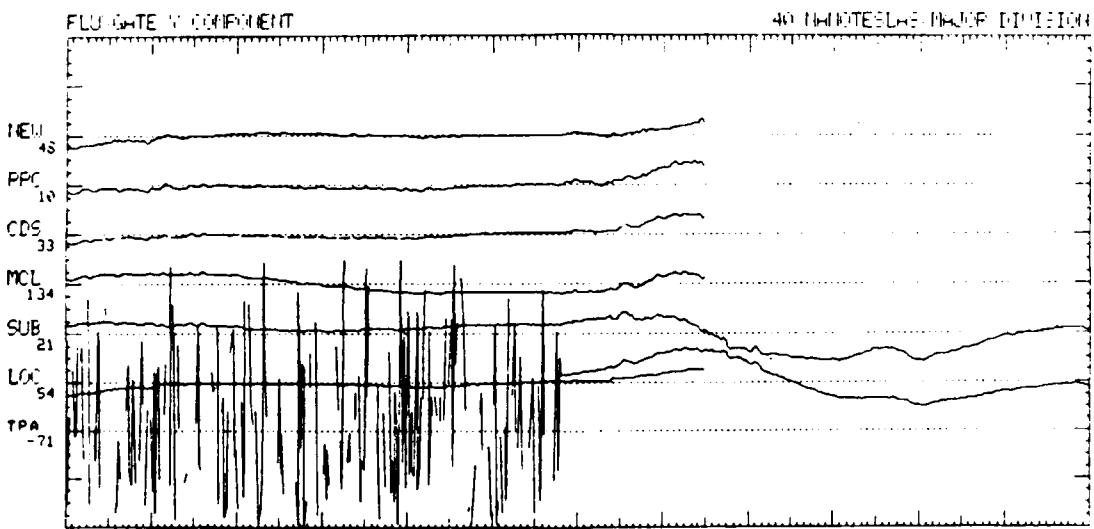
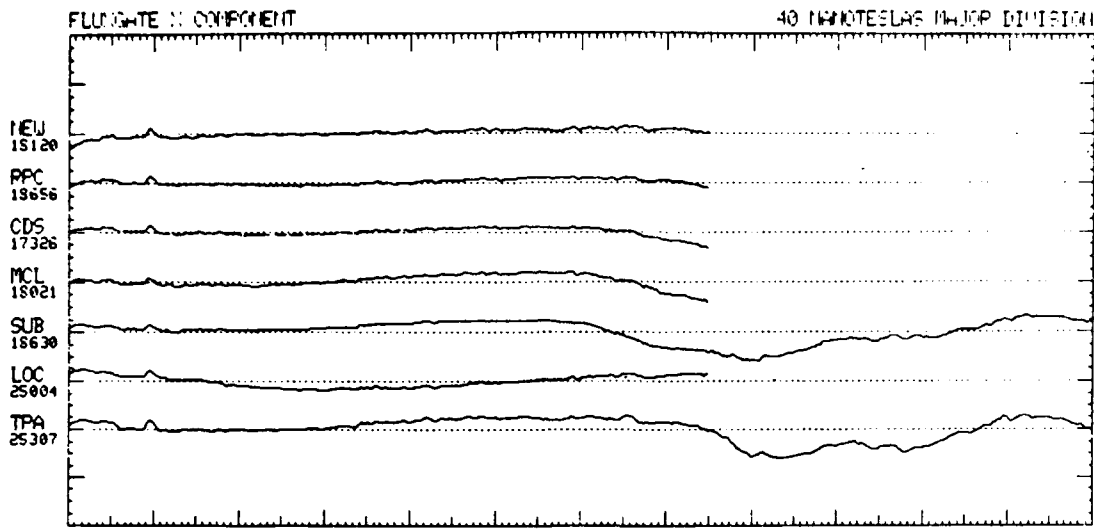
TPA
42756

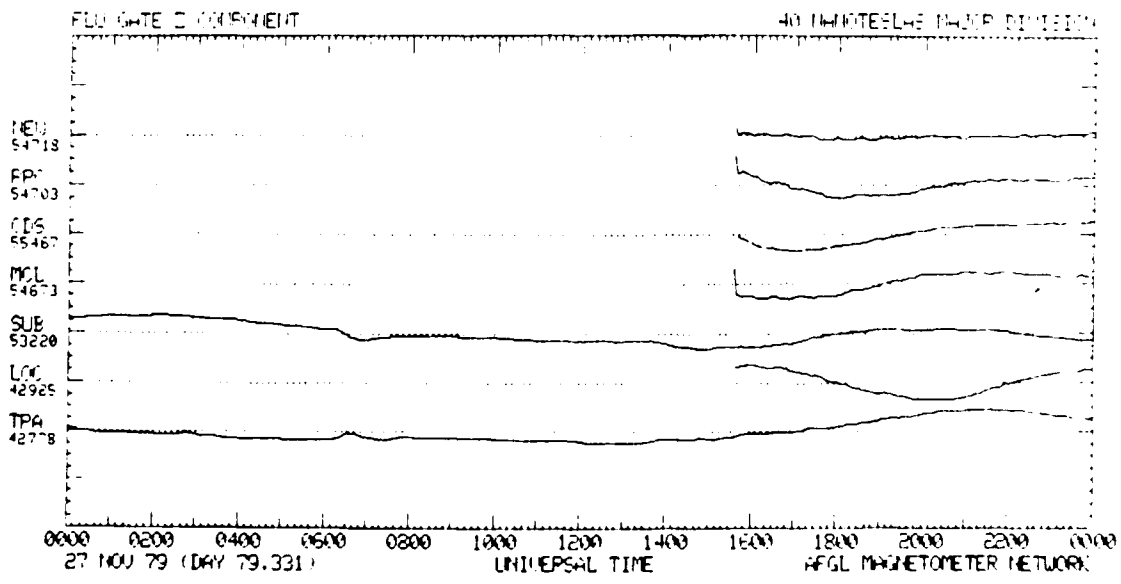
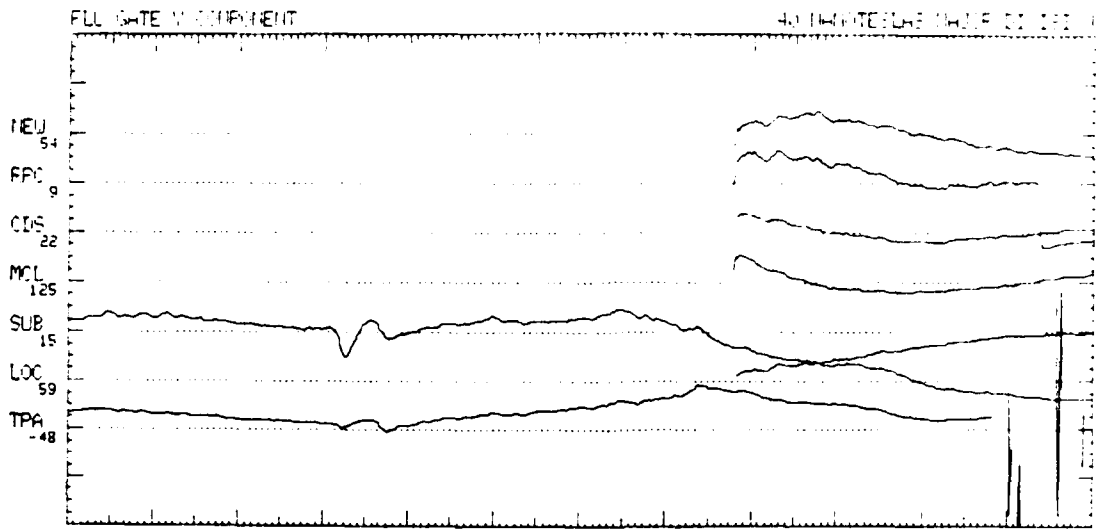
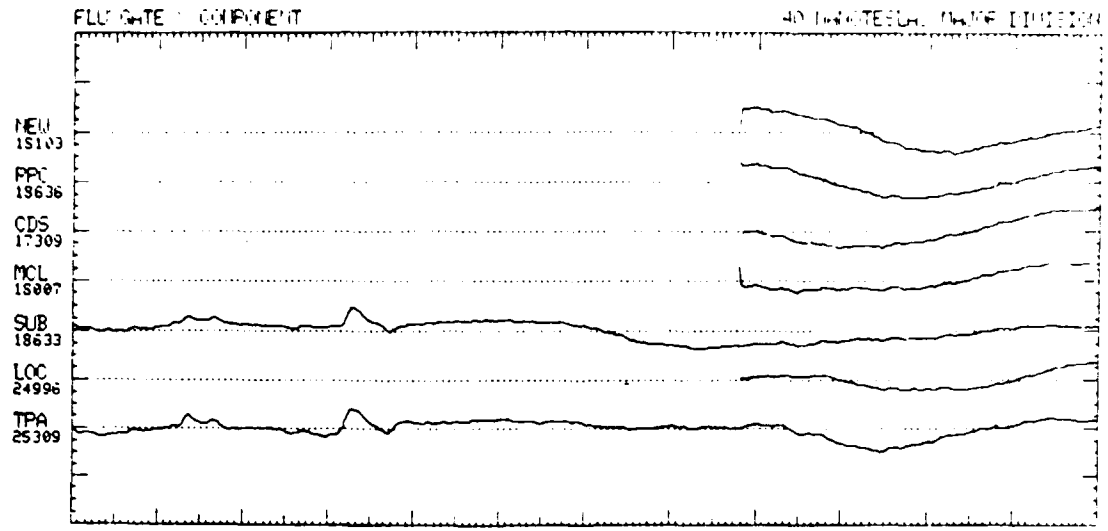


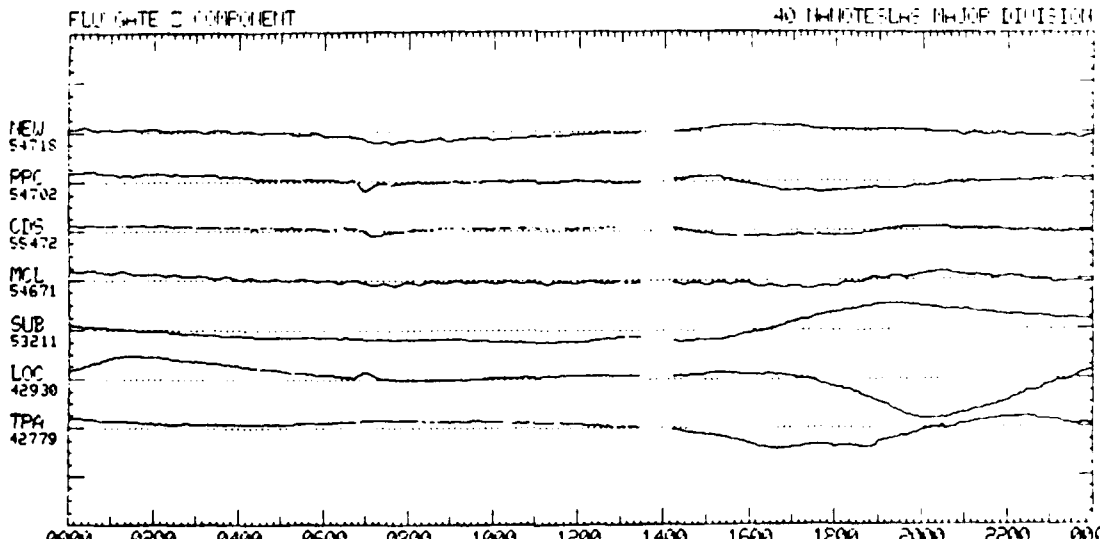
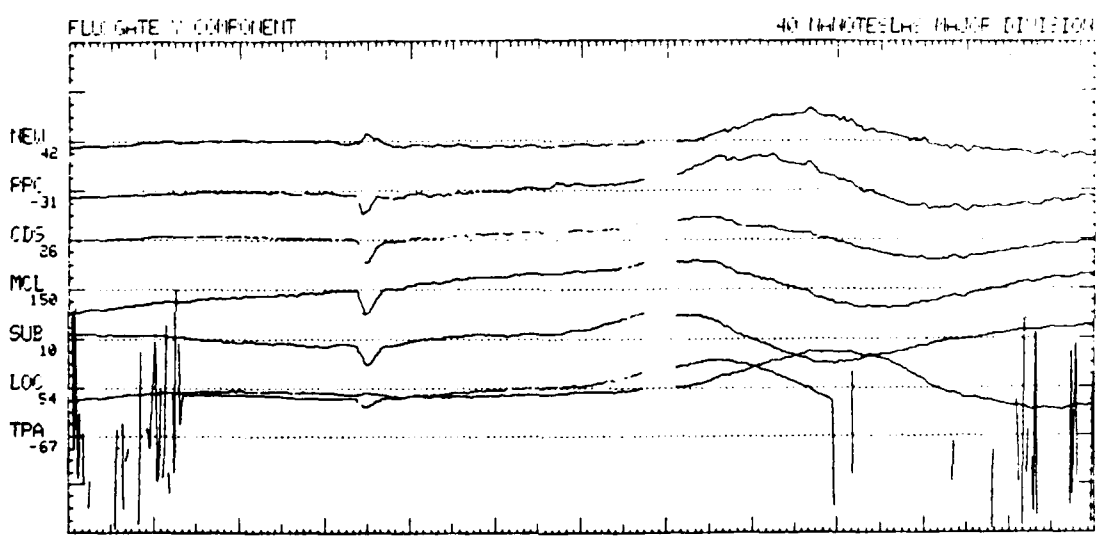
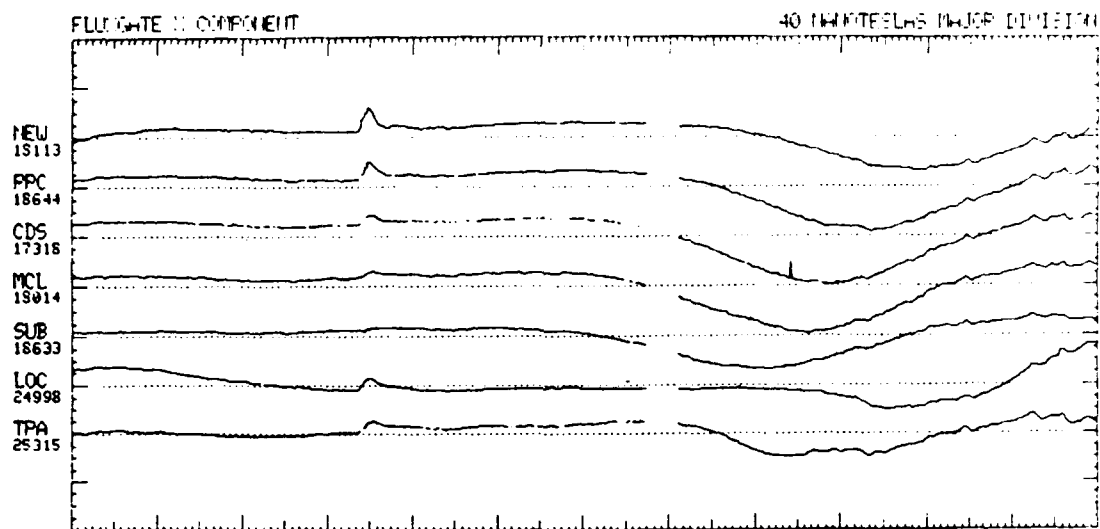
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 23 NOV 79 (DAY 79.327) UNIVERSAL TIME HFGL TELETYPE NETWORK



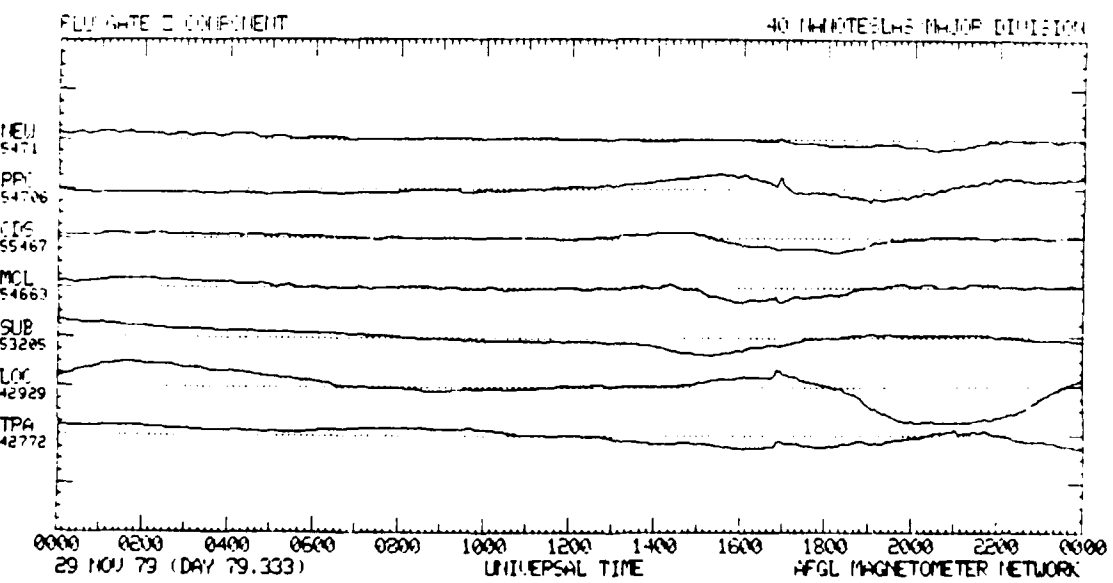
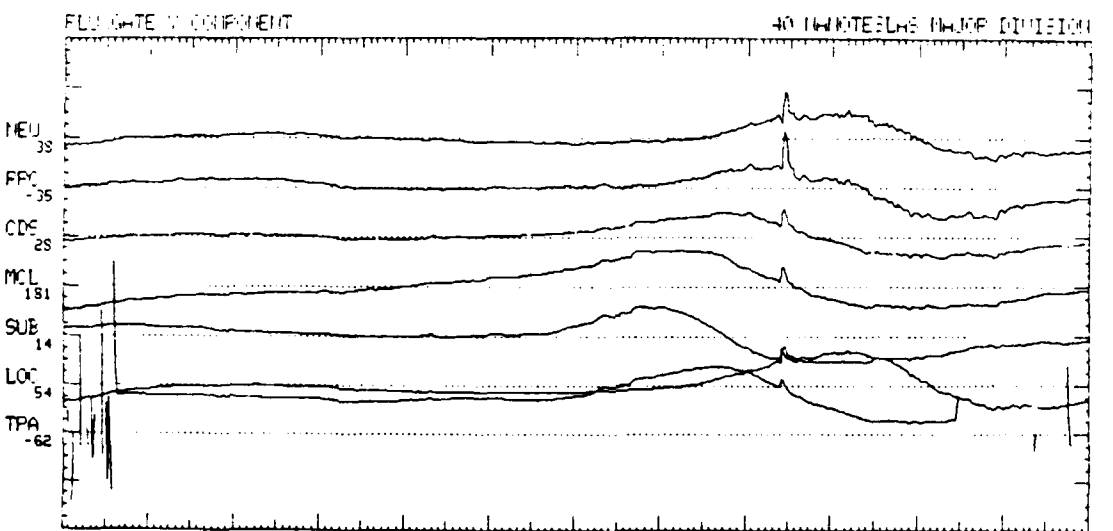
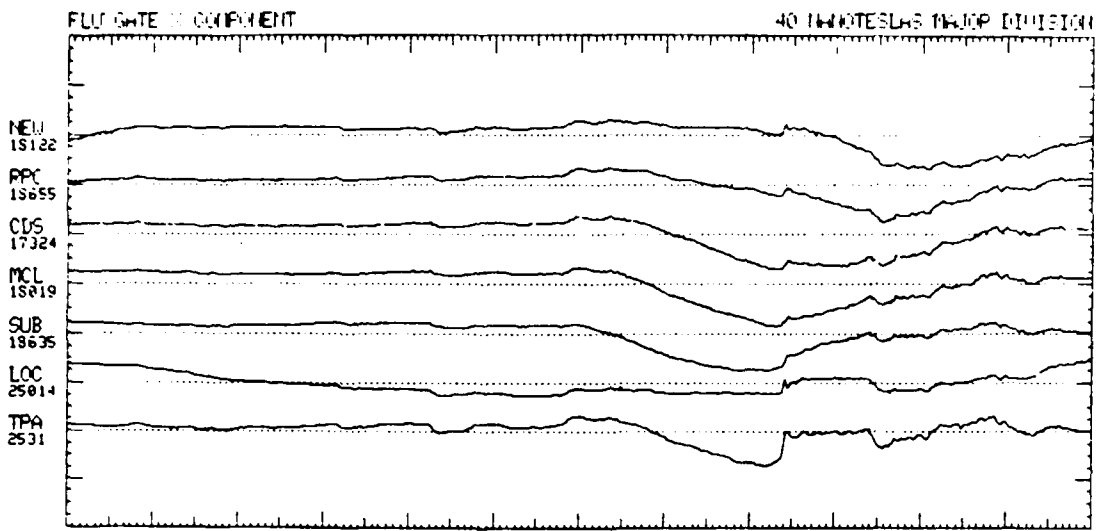


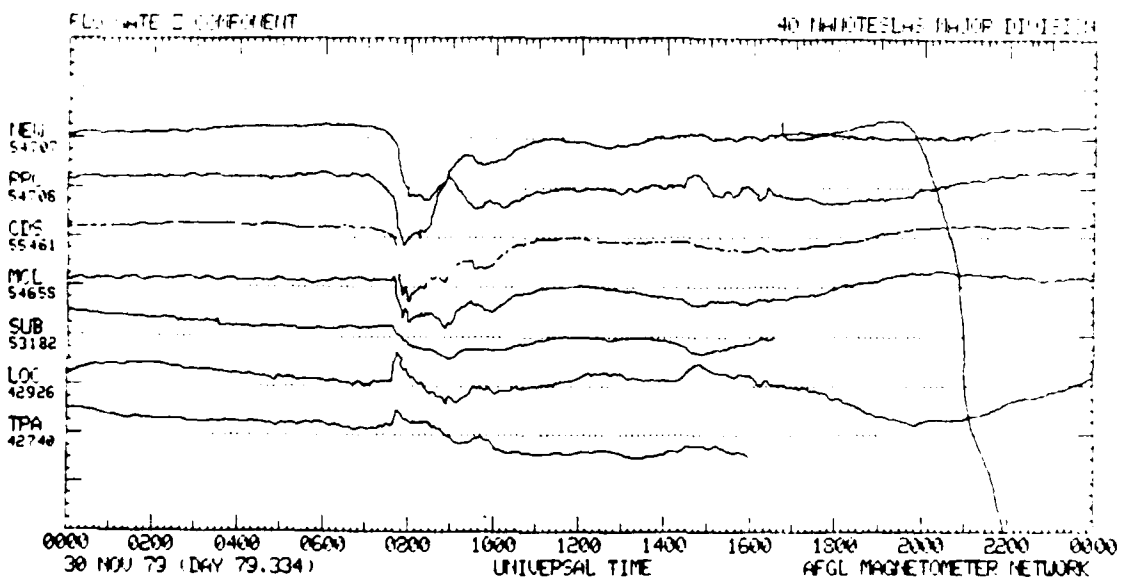
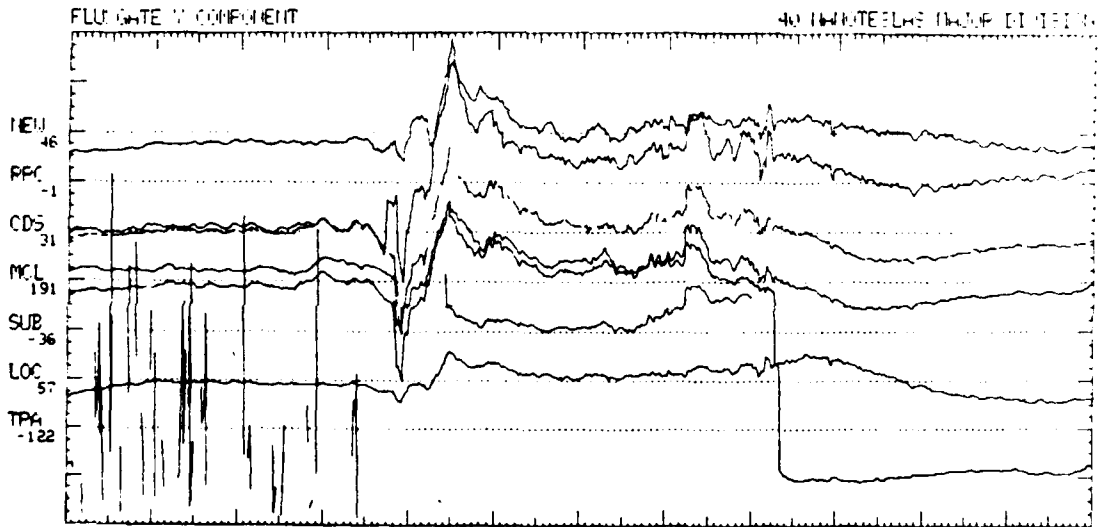
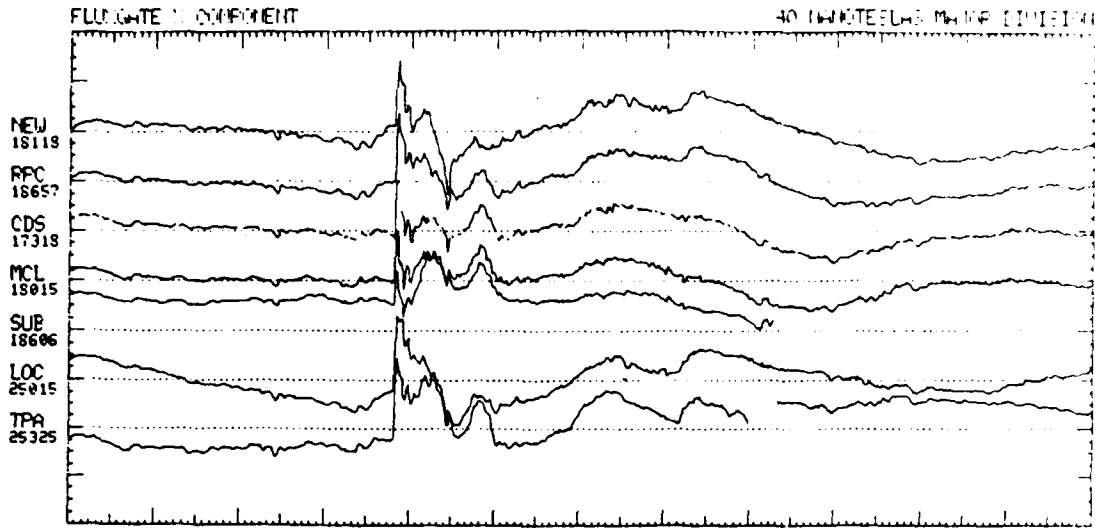


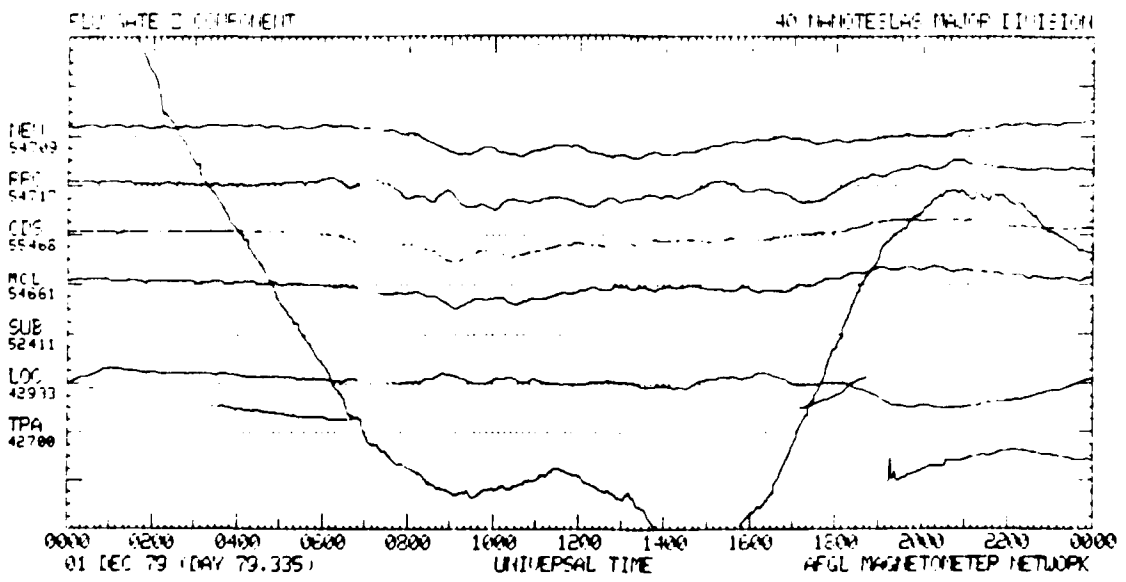
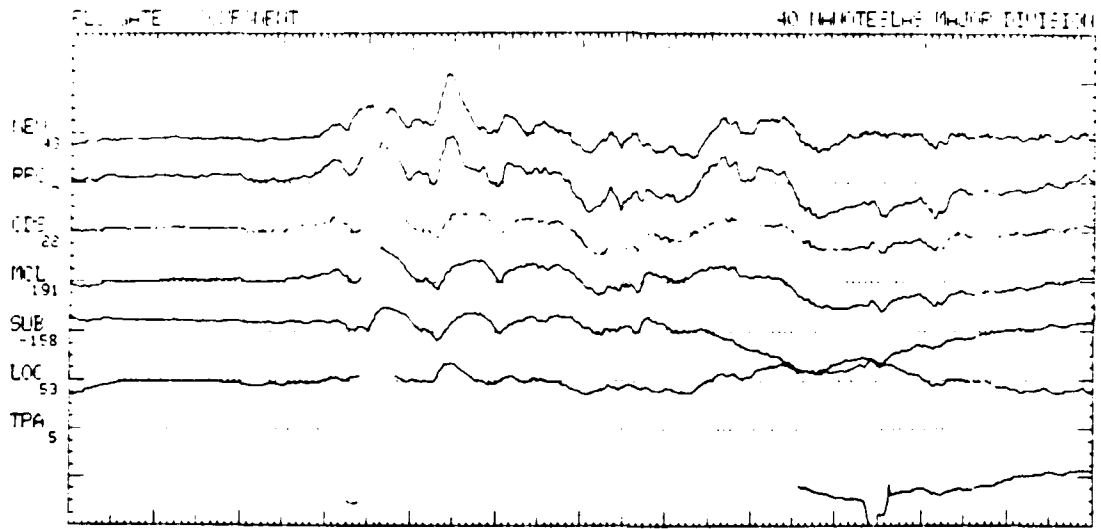
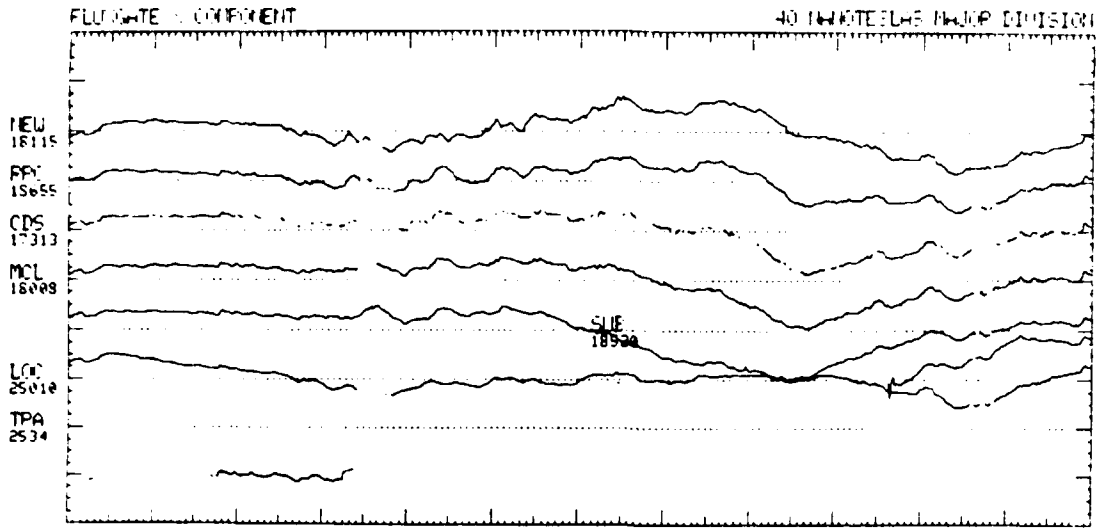


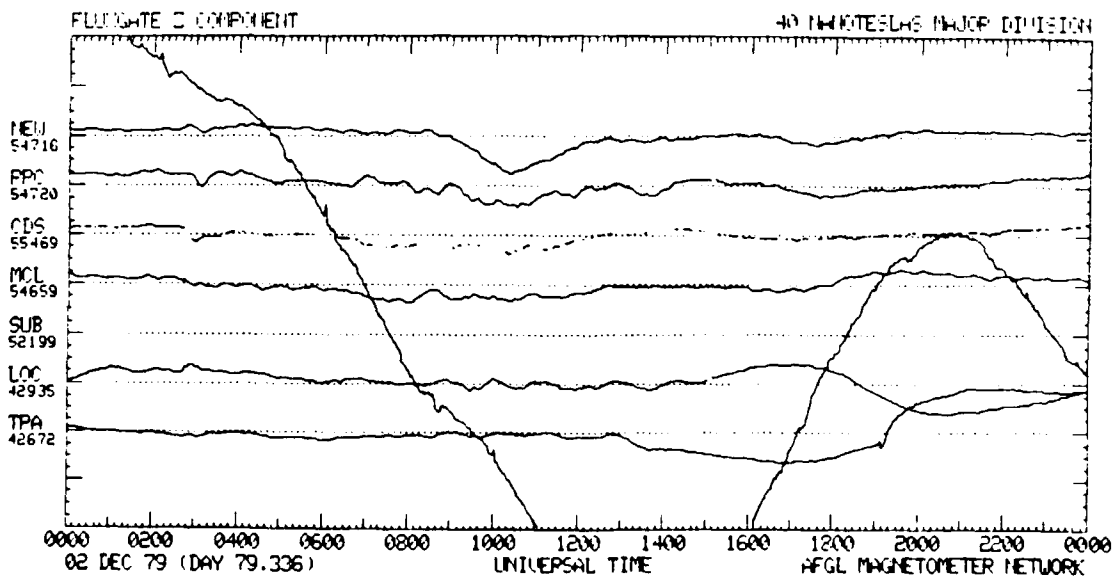
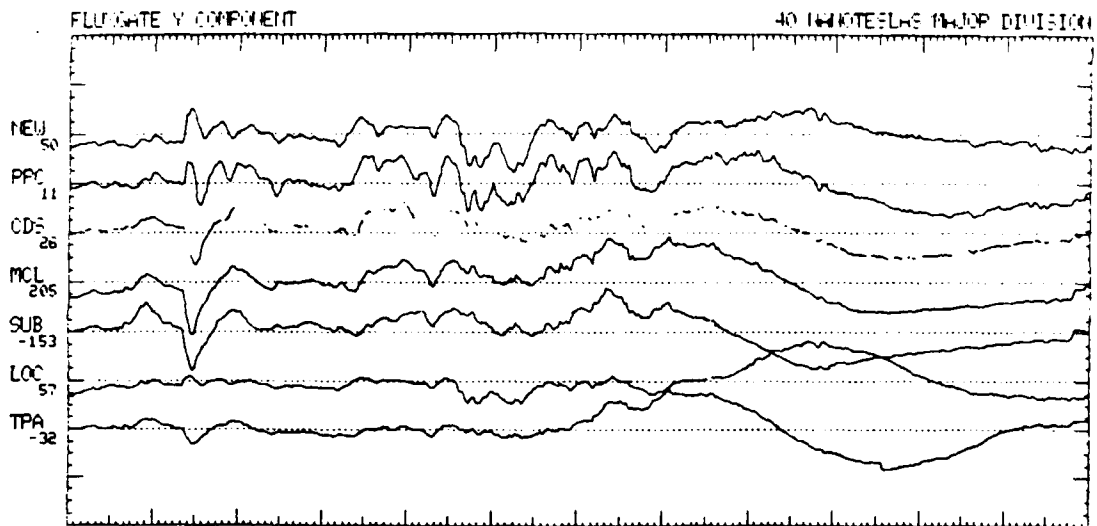
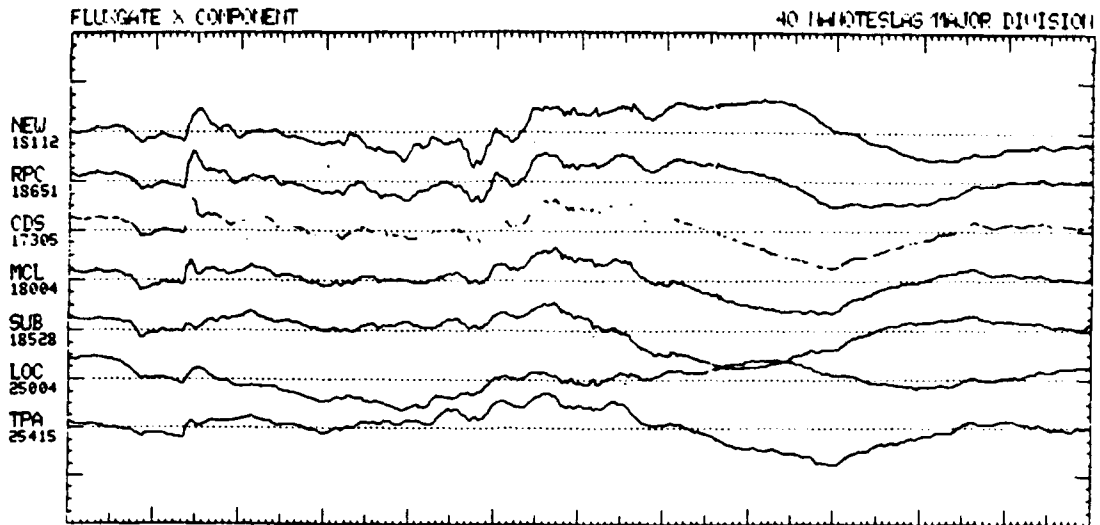


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 28 NOV 79 (DAY 79.332) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

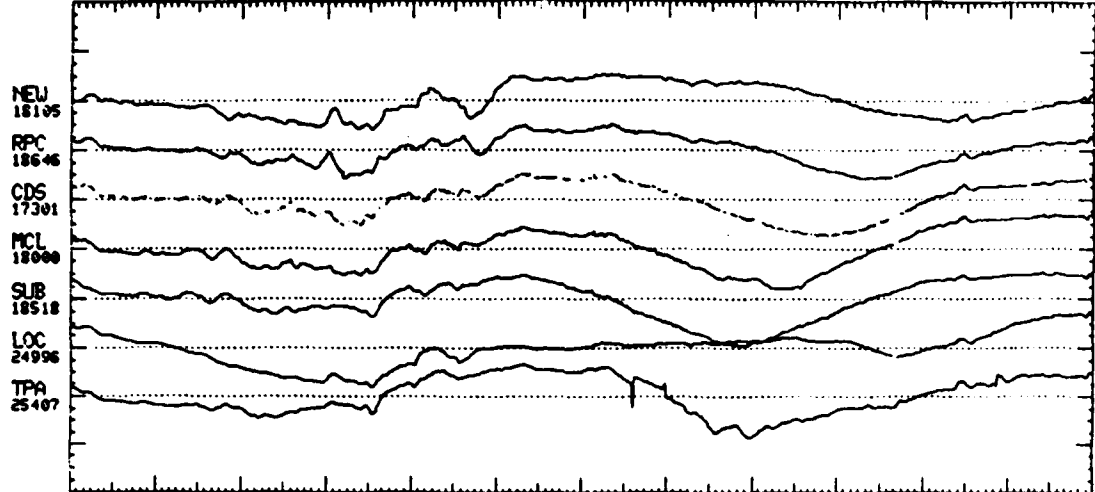




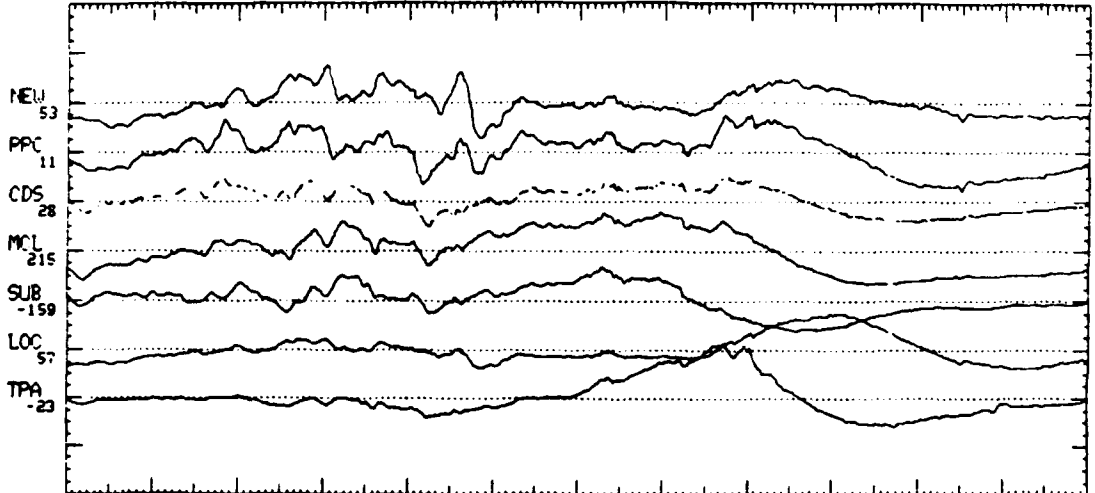




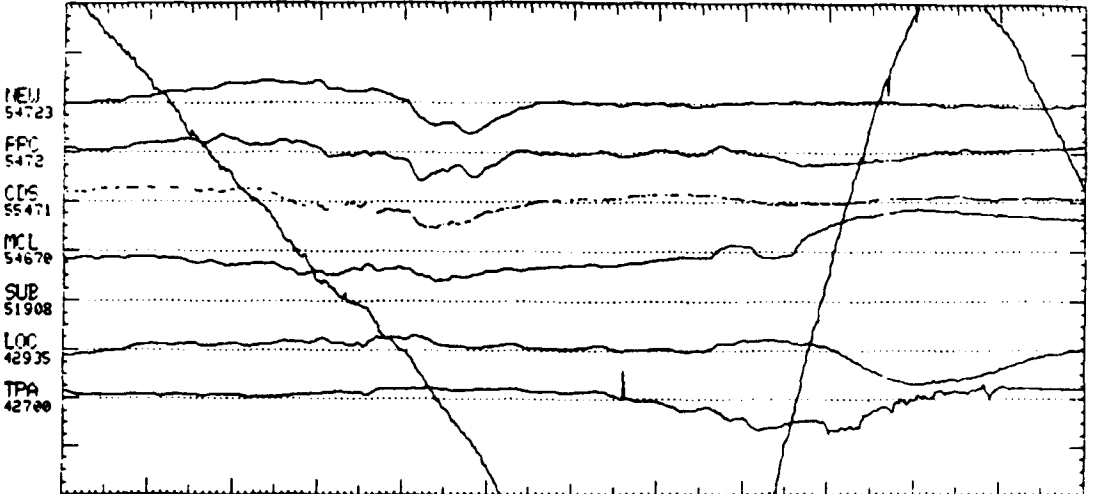
FLIGHTLINE X COMPONENT 40 NANOTESLAS-MAJOR DIVISION



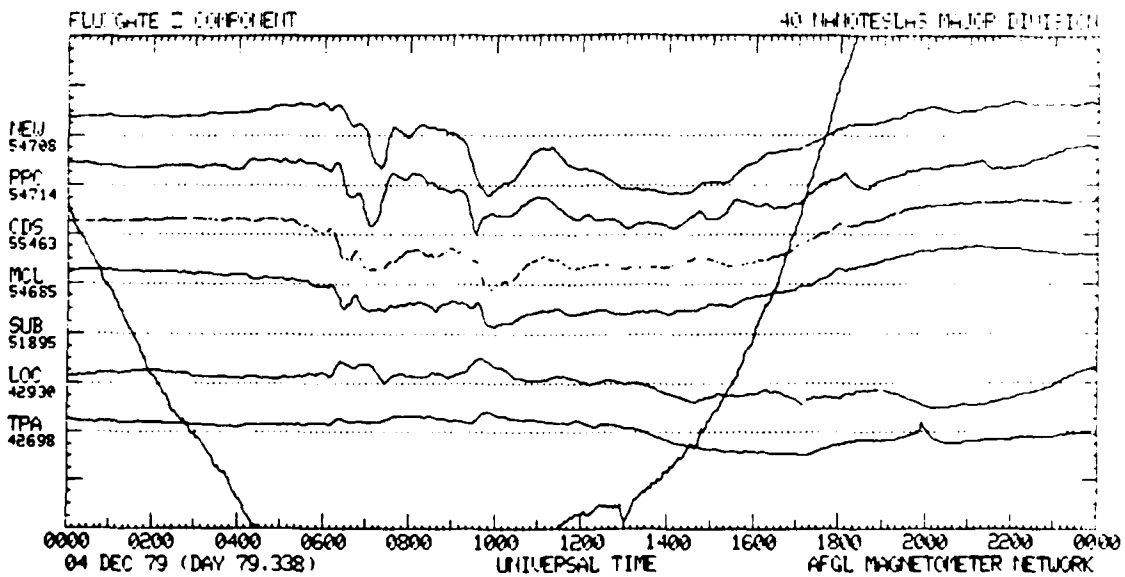
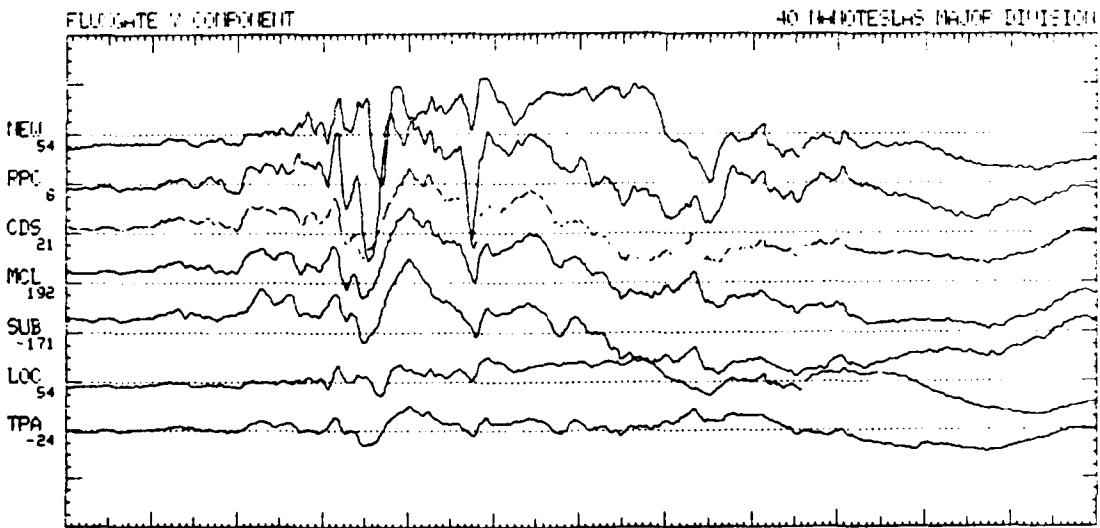
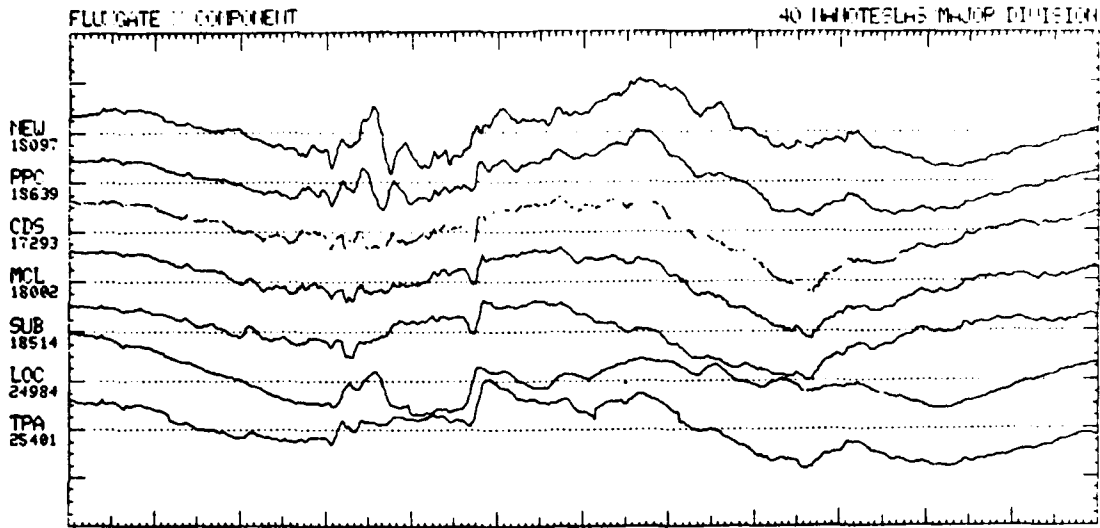
FLIGHTLINE Y COMPONENT 40 NANOTESLAS-MAJOR DIVISION



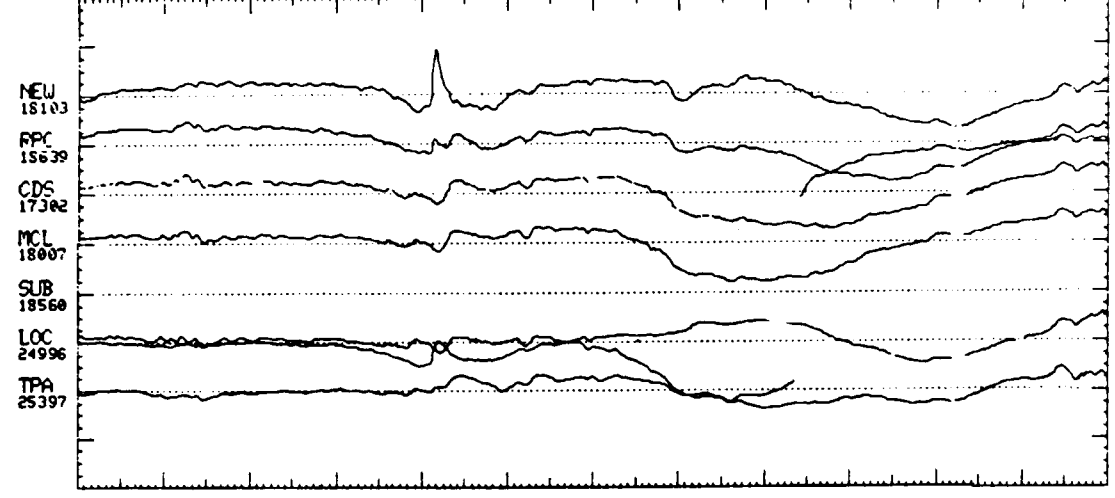
FLIGHTLINE Z COMPONENT 40 NANOTESLAS-MAJOR DIVISION



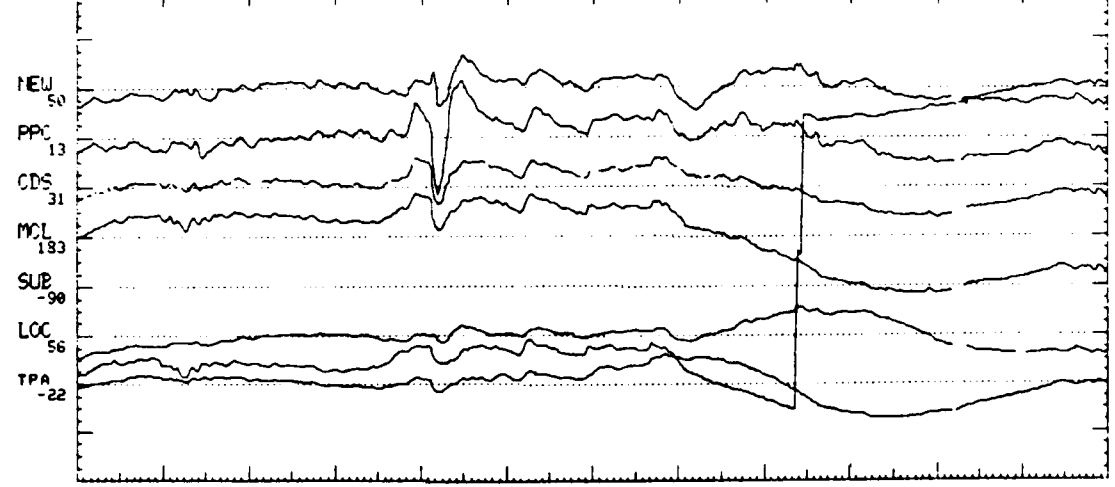
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 03 DEC 79 (DAY 79.337) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



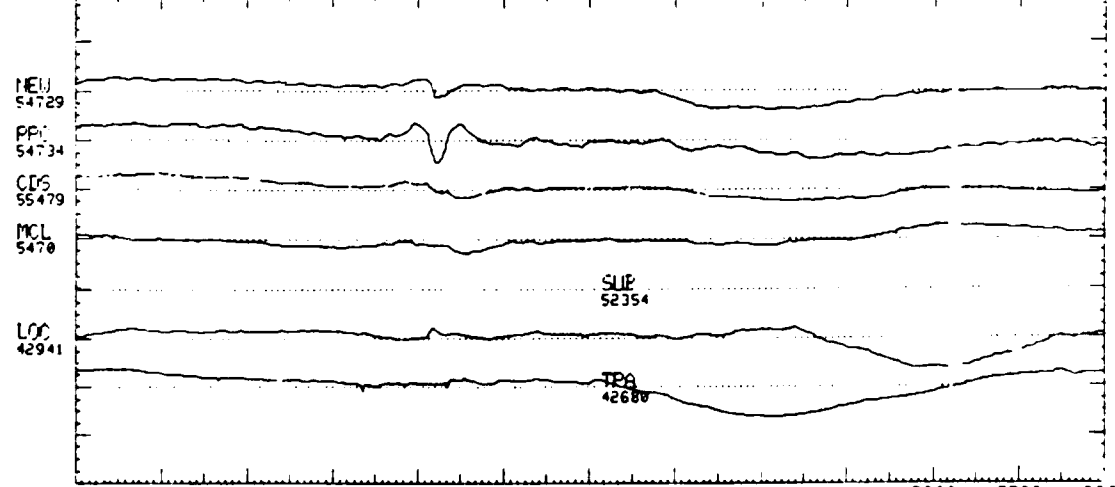
FLIGHTS II COMPONENT 40 INSTITUTE LAS MAJOR DIVISION



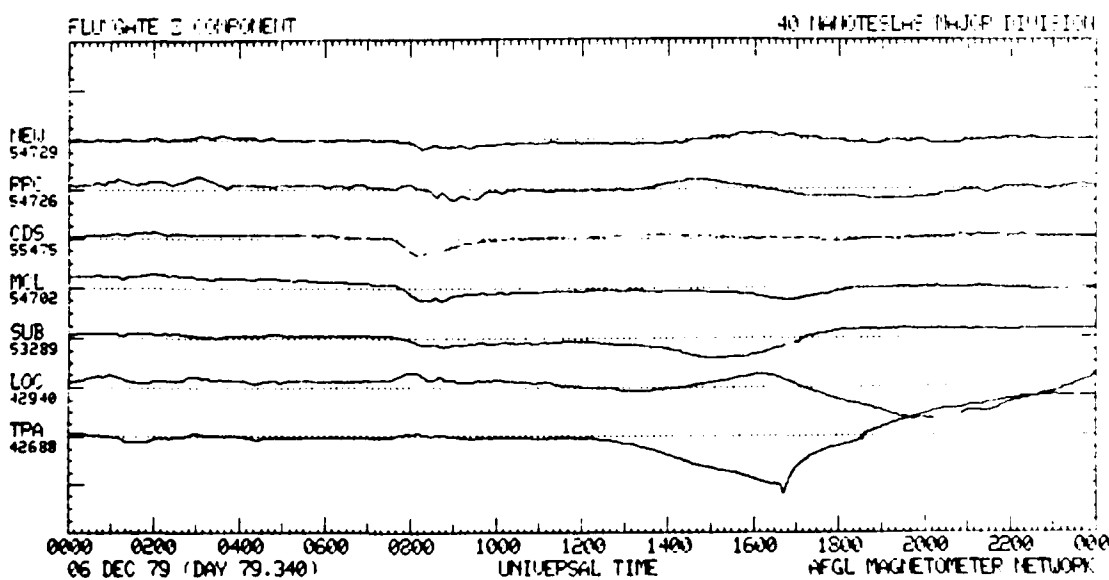
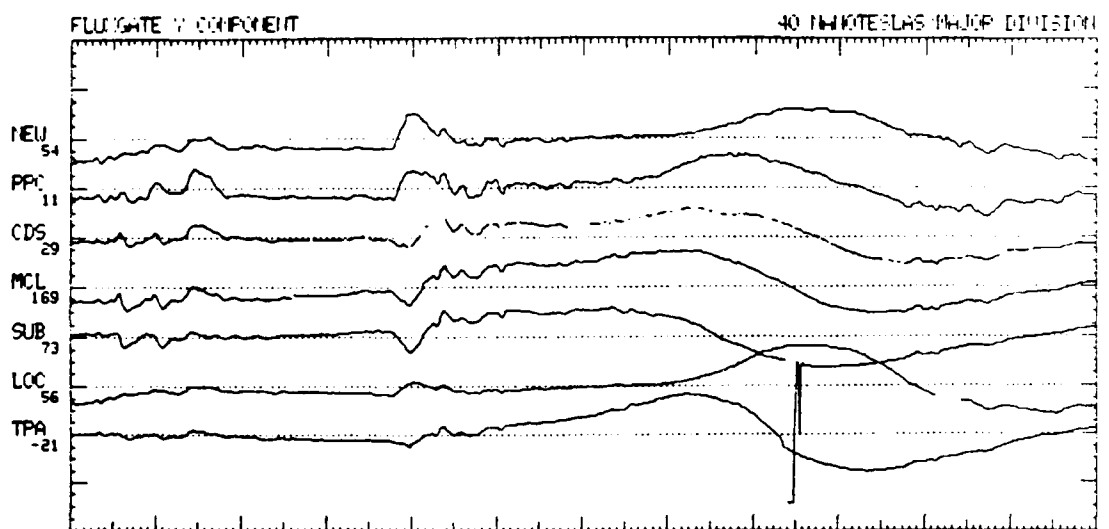
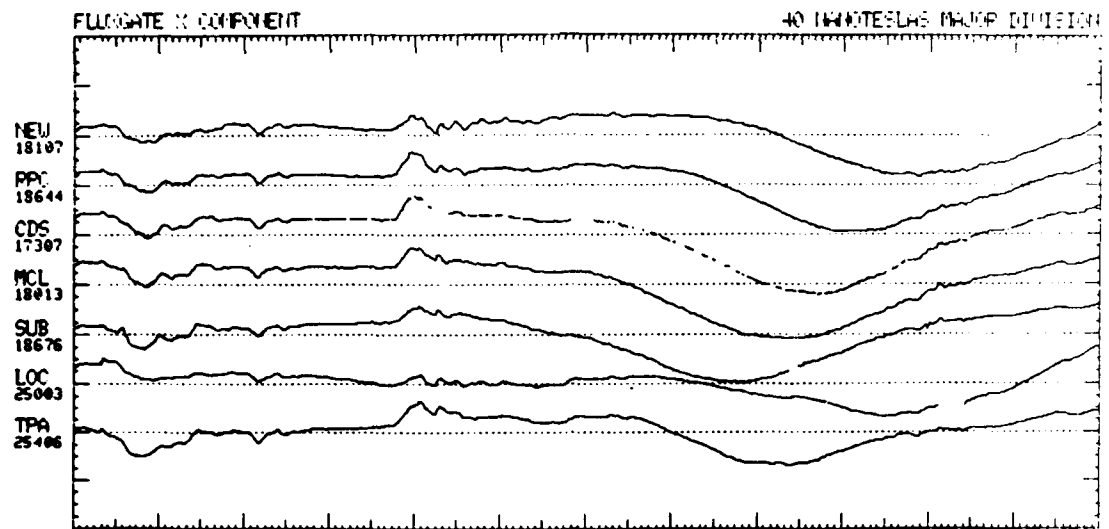
FLIGHTS V COMPONENT 40 INSTITUTE LAS MAJOR DIVISION

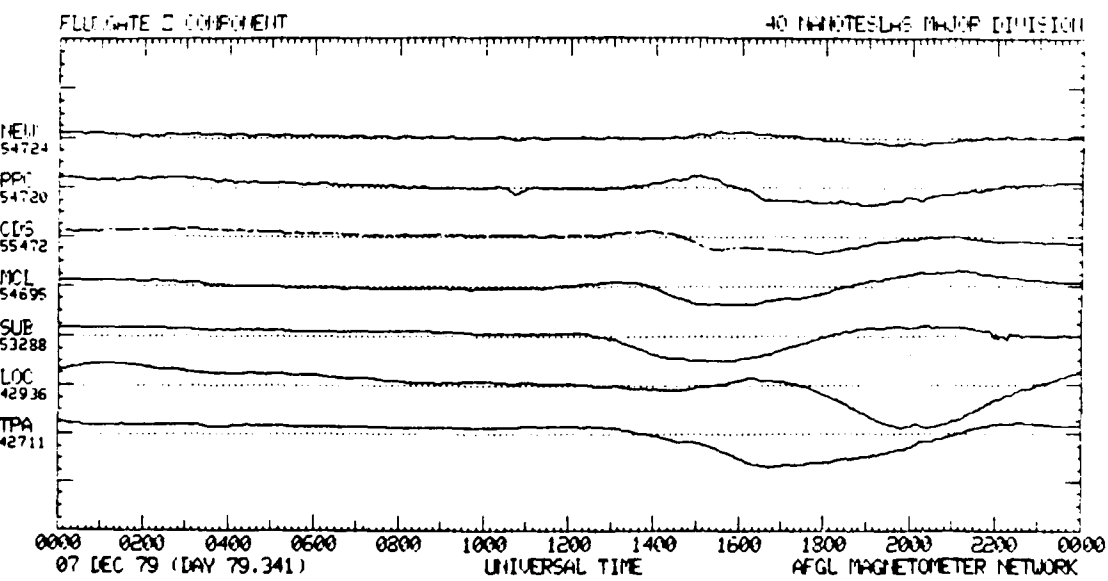
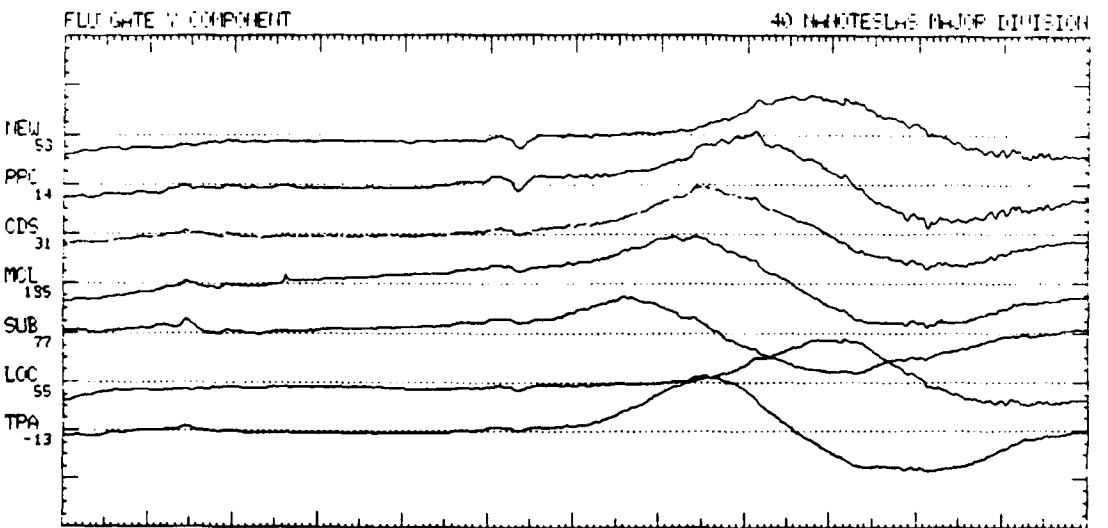
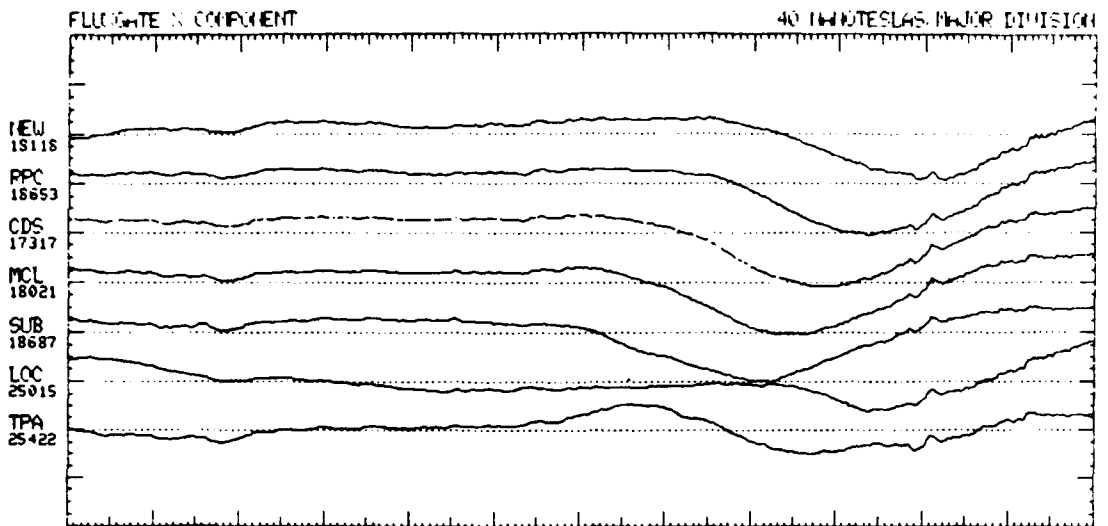


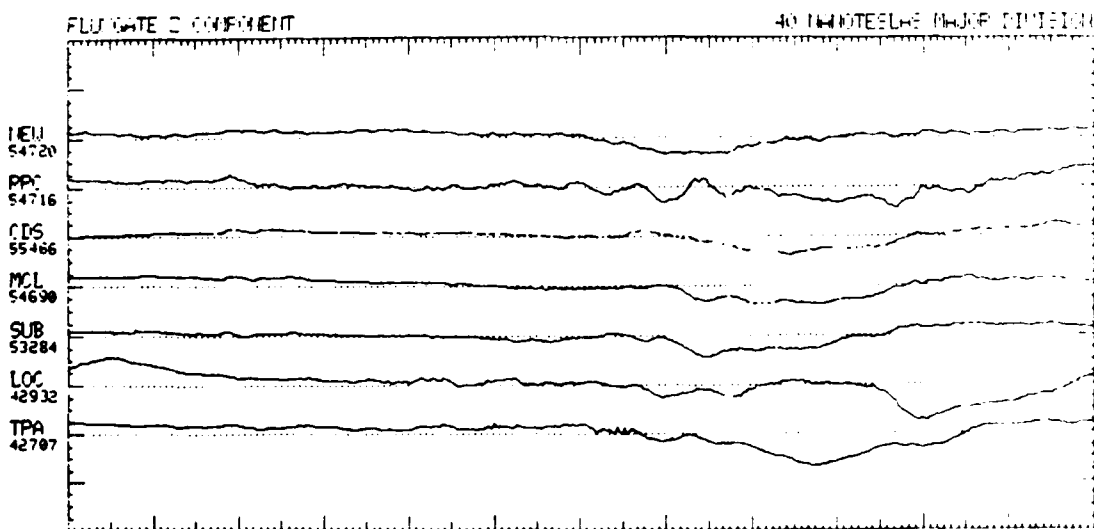
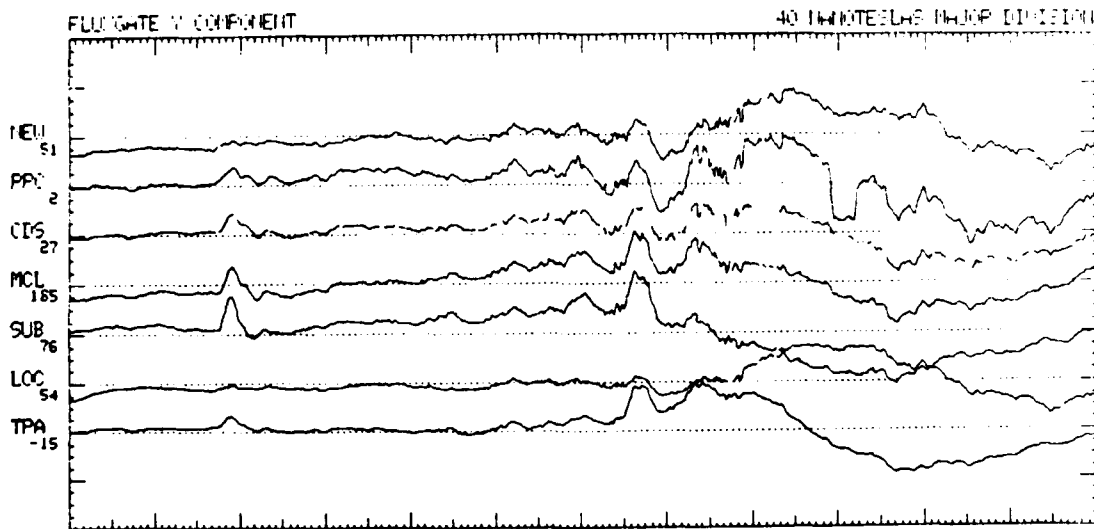
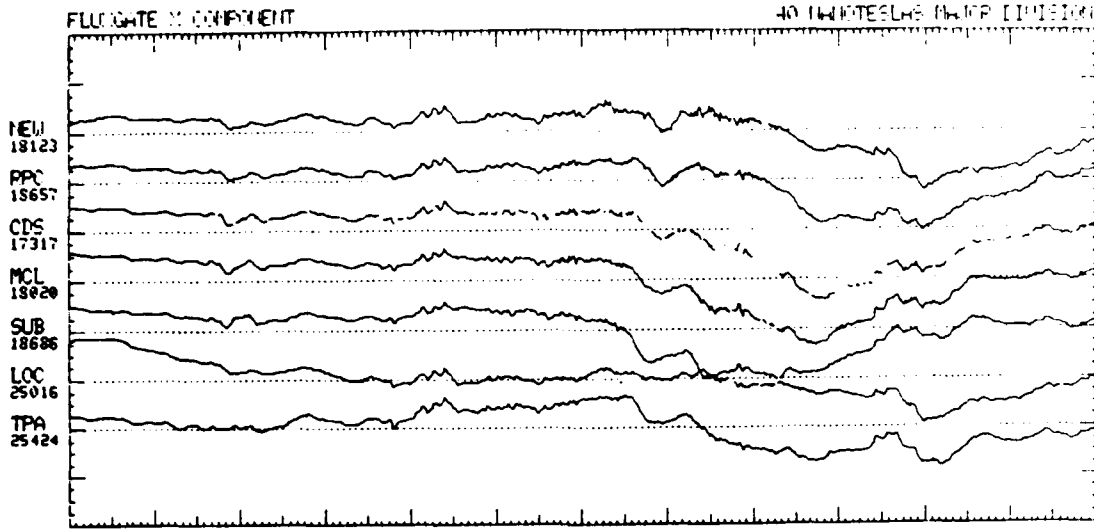
FLIGHTS D COMPONENT 40 INSTITUTE LAS MAJOR DIVISION



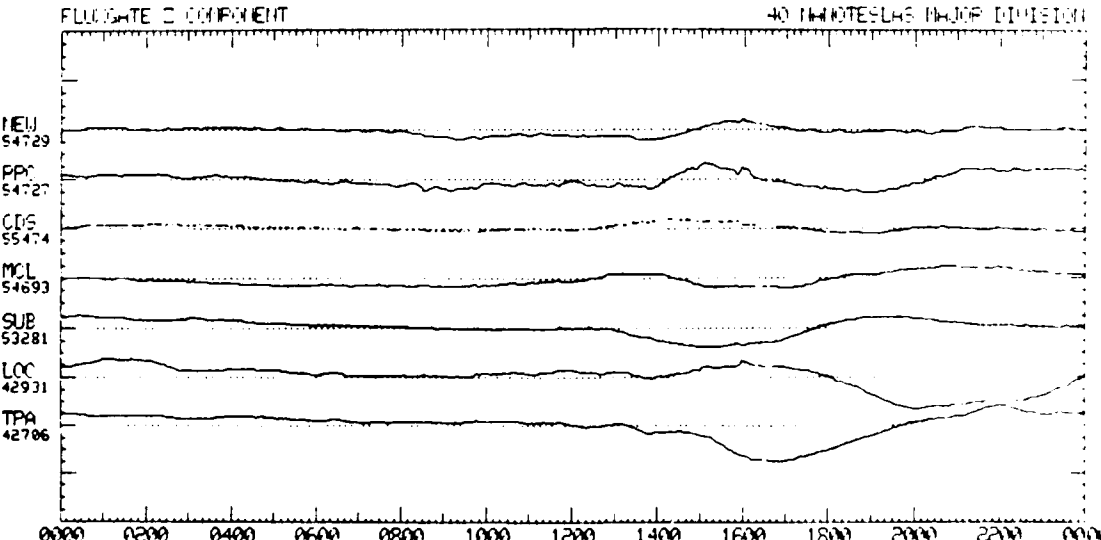
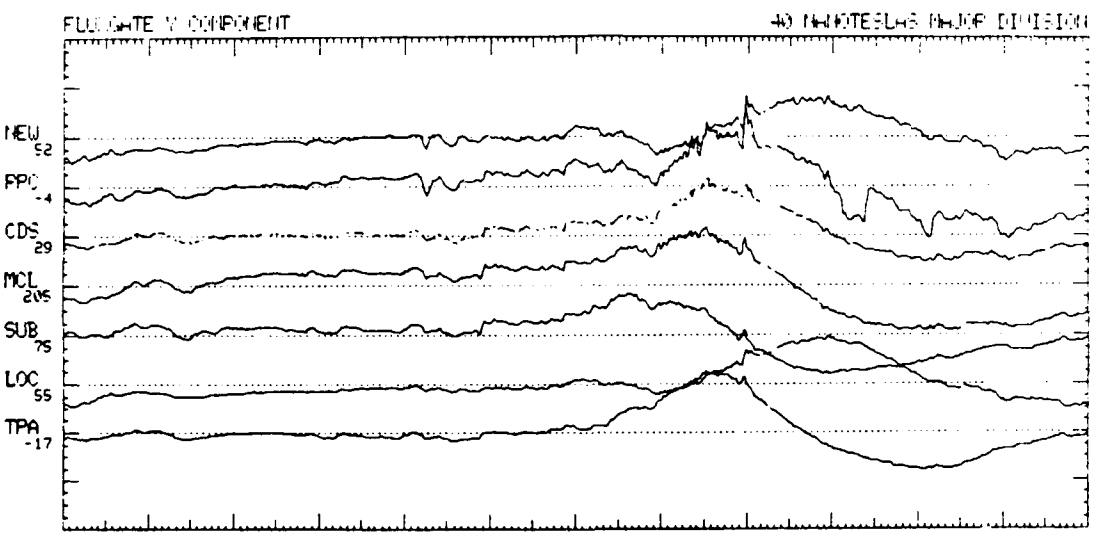
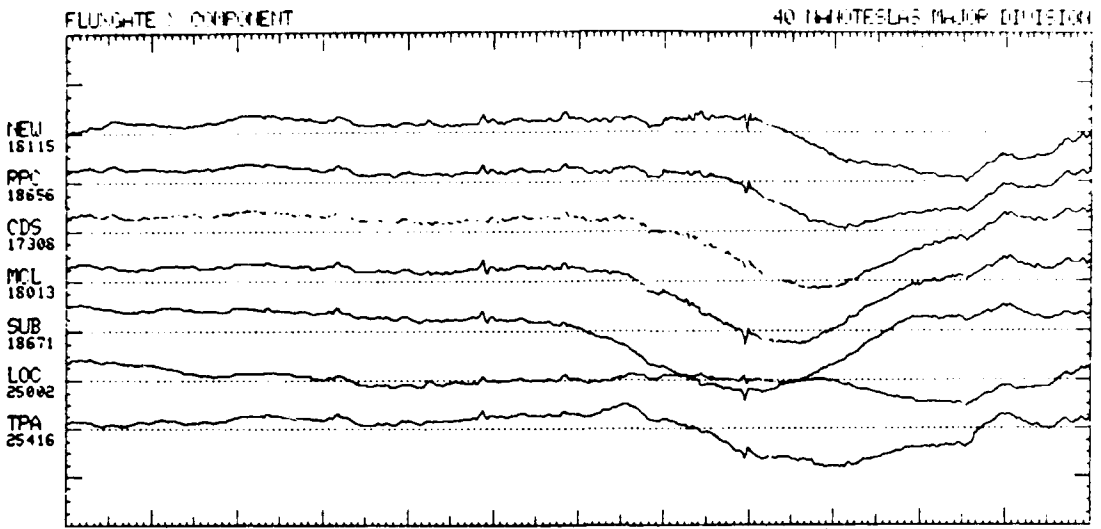
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 05 DEC 79 (DAY 79.339) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



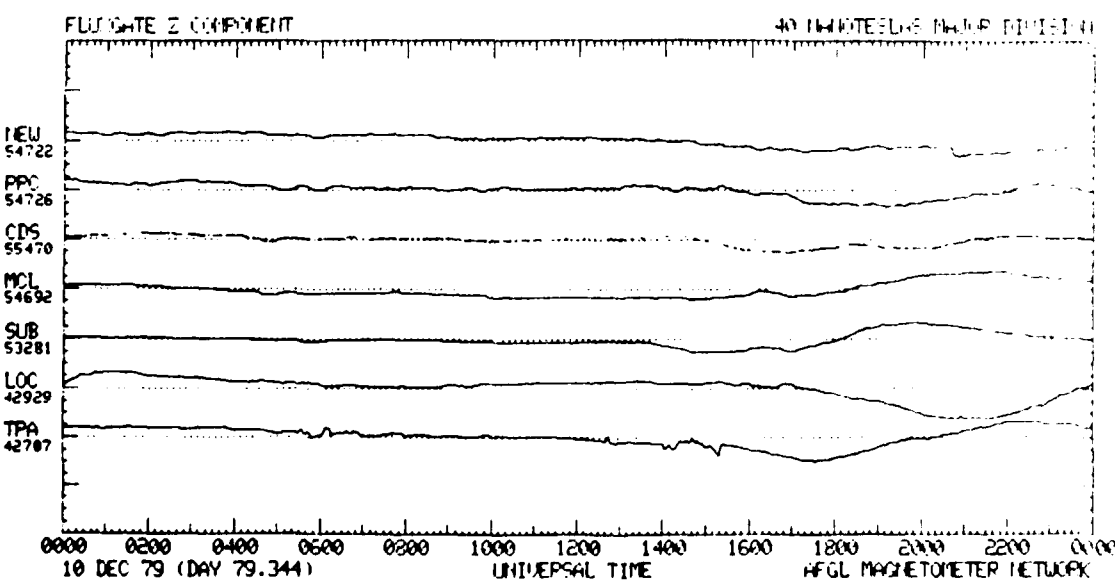
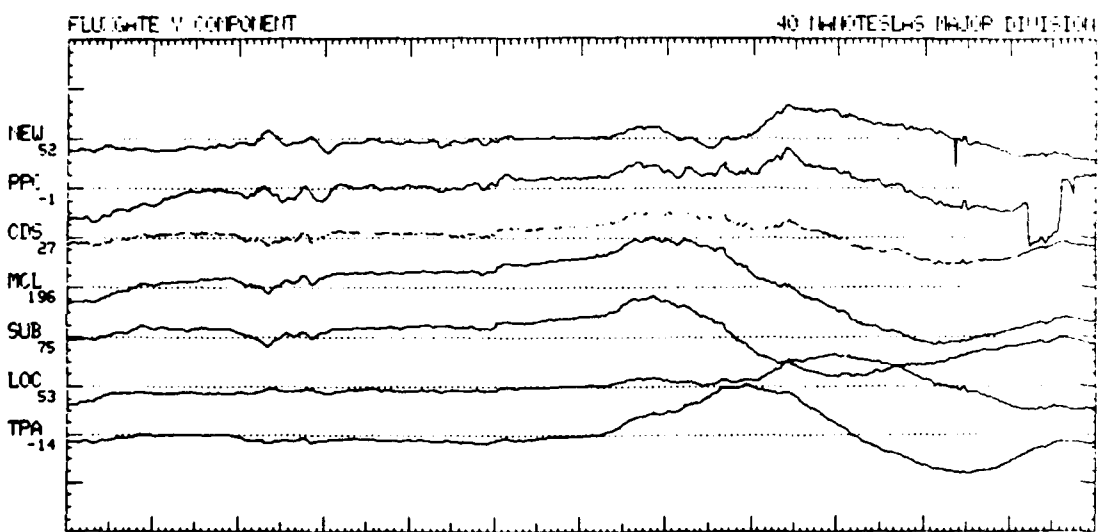
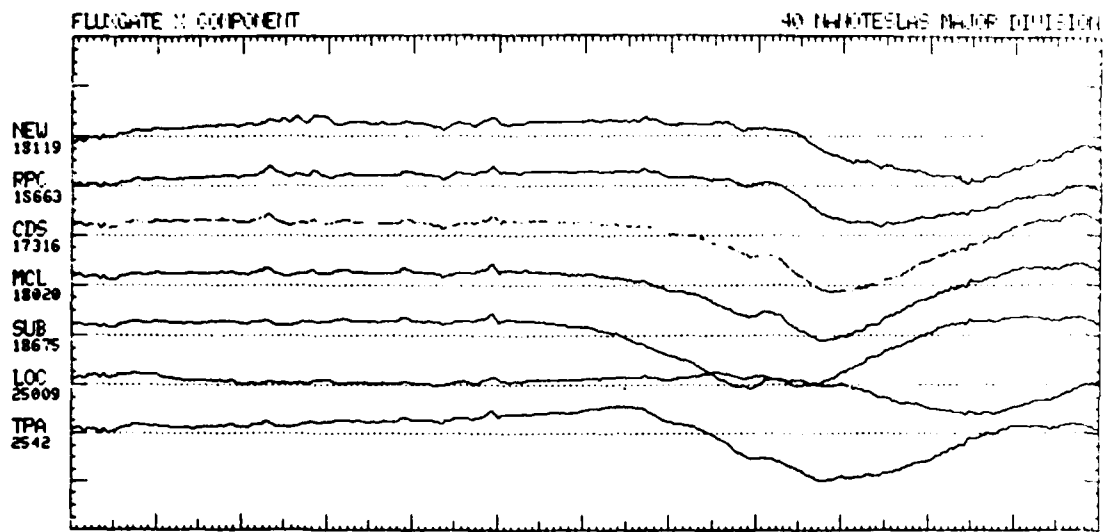


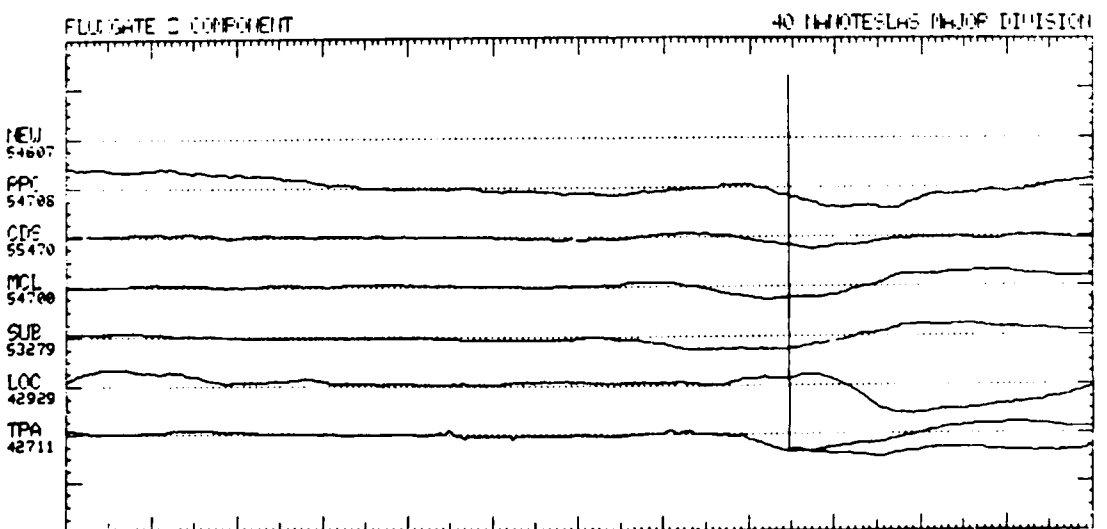
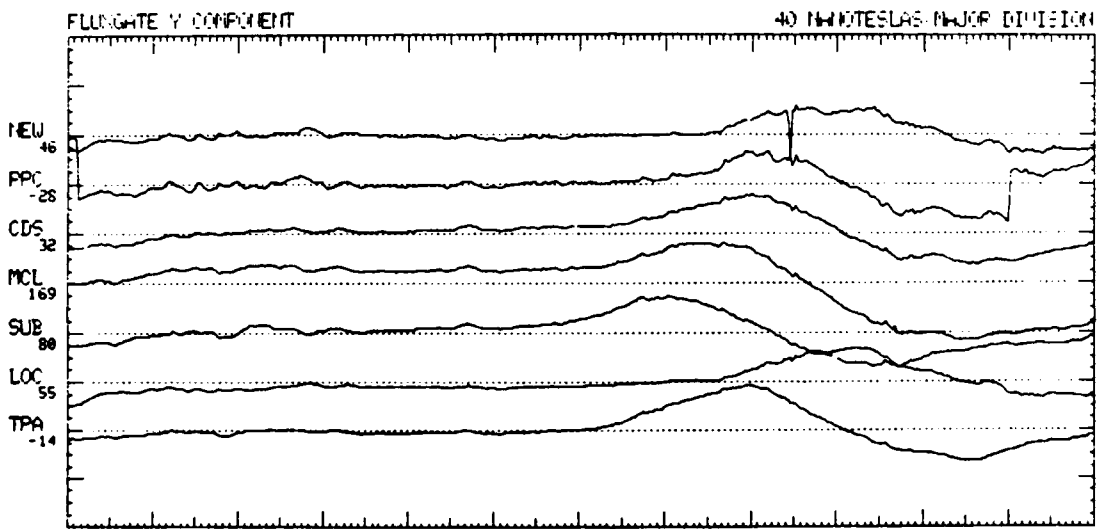
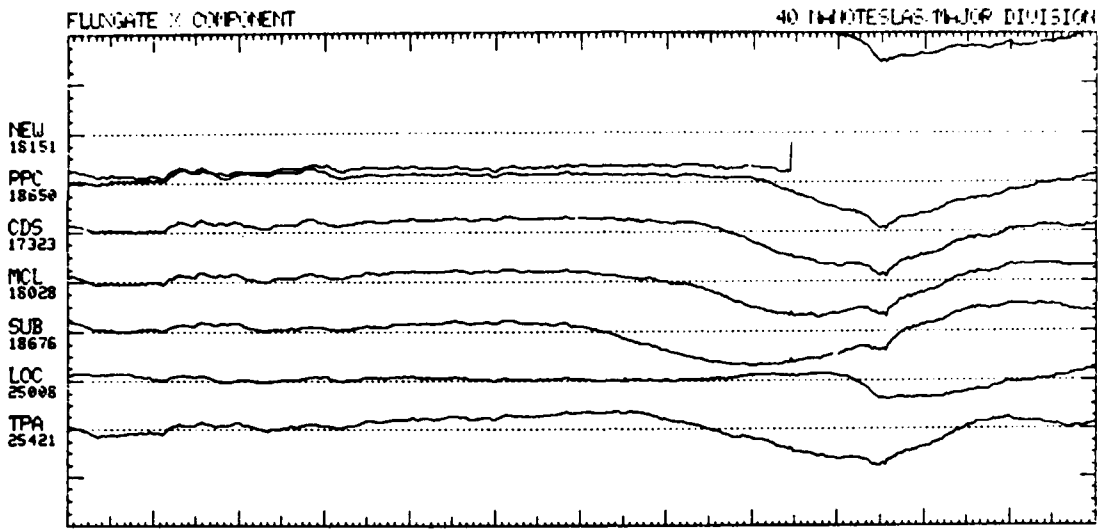


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 08 DEC 79 (DAY 79.342) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 09 DEC 79 (DAY 79.343) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

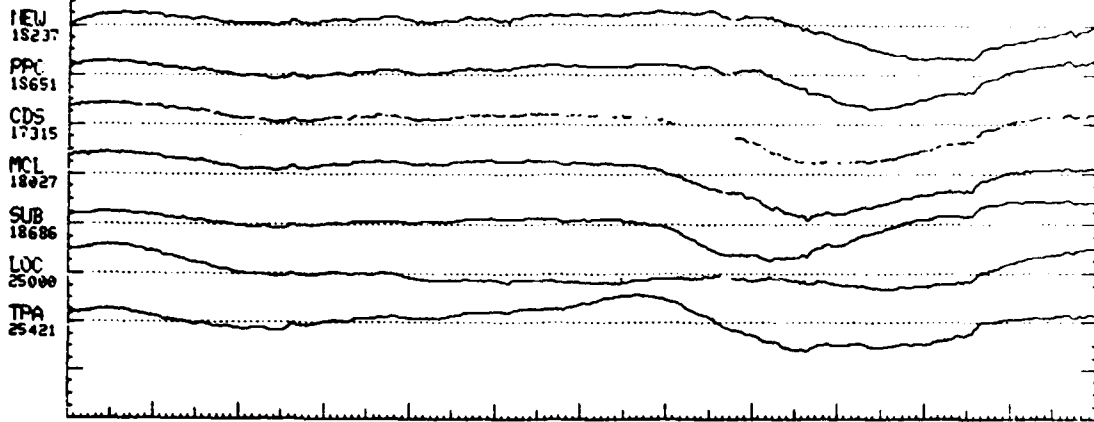




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 11 DEC 79 (DAY 79.345) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

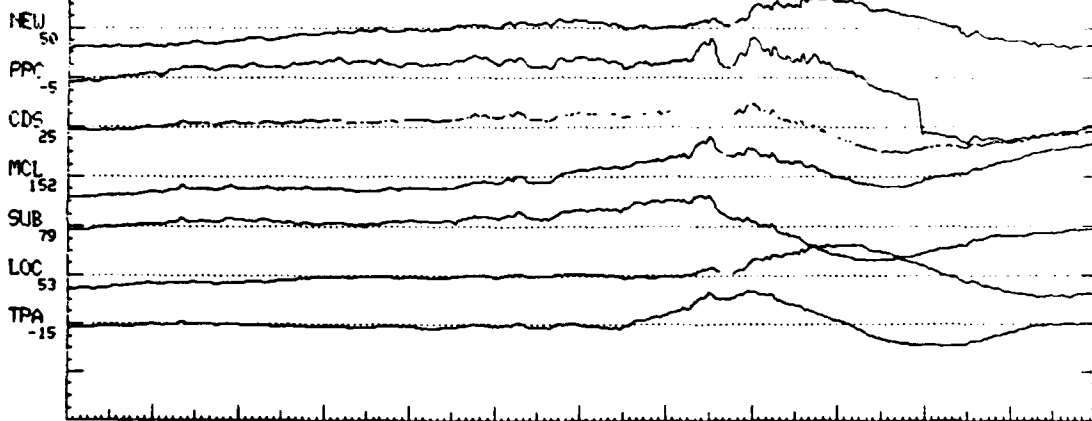
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION



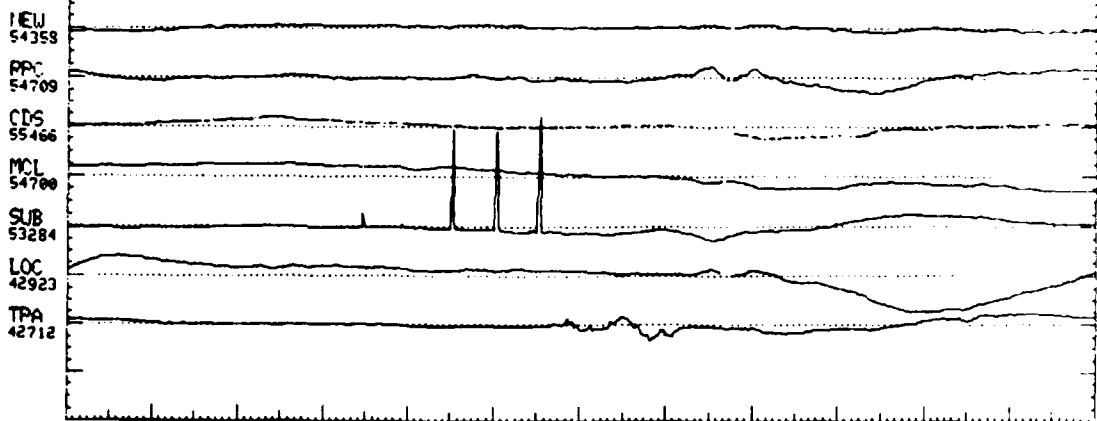
FLIGHTLINE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

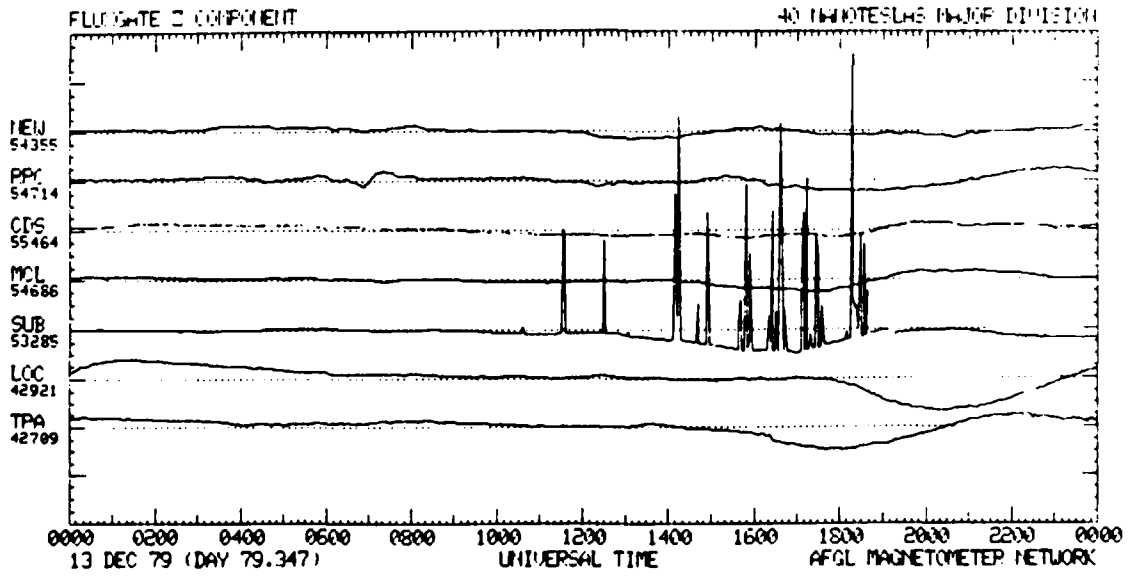
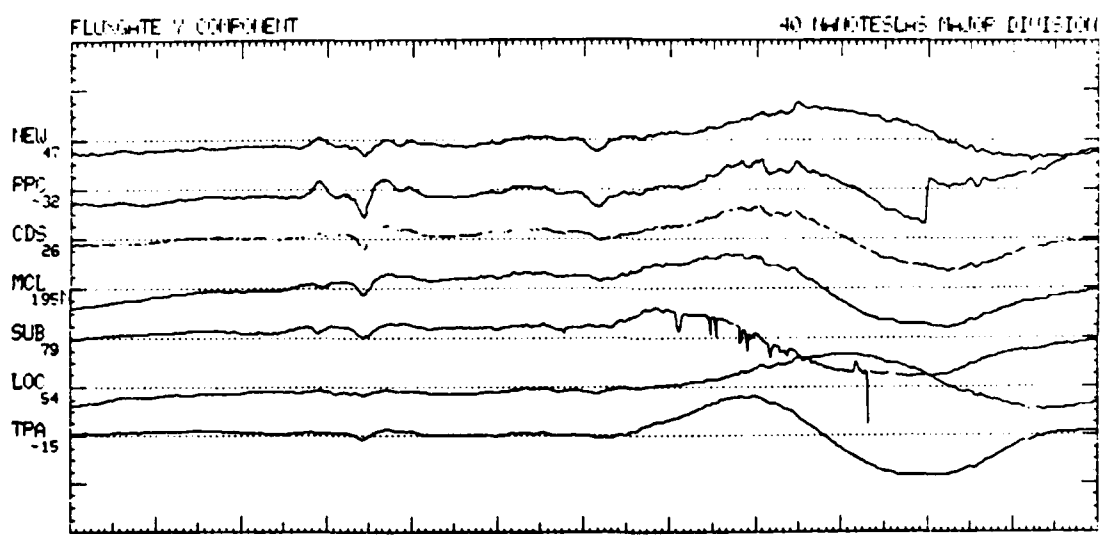
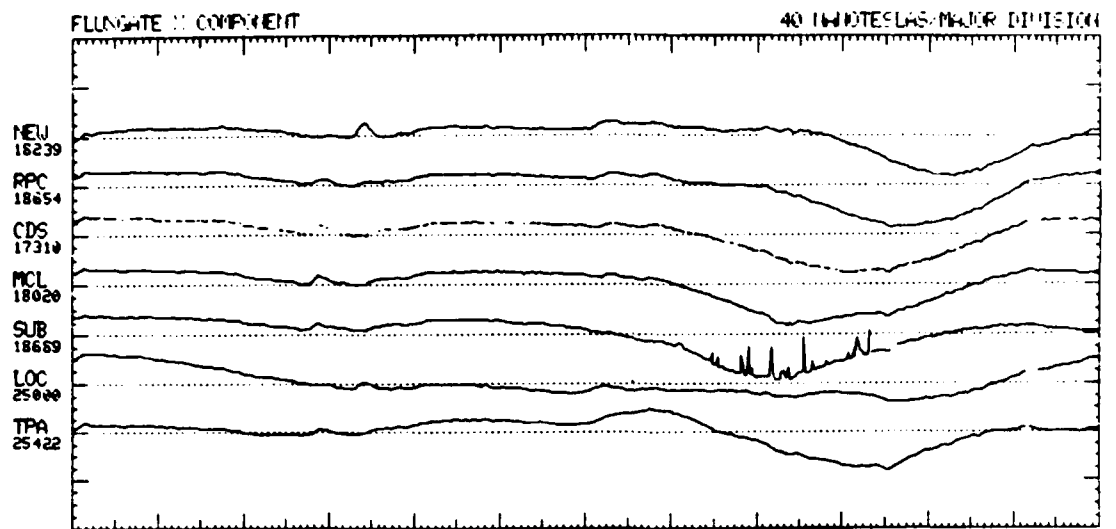


FLIGHTLINE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION



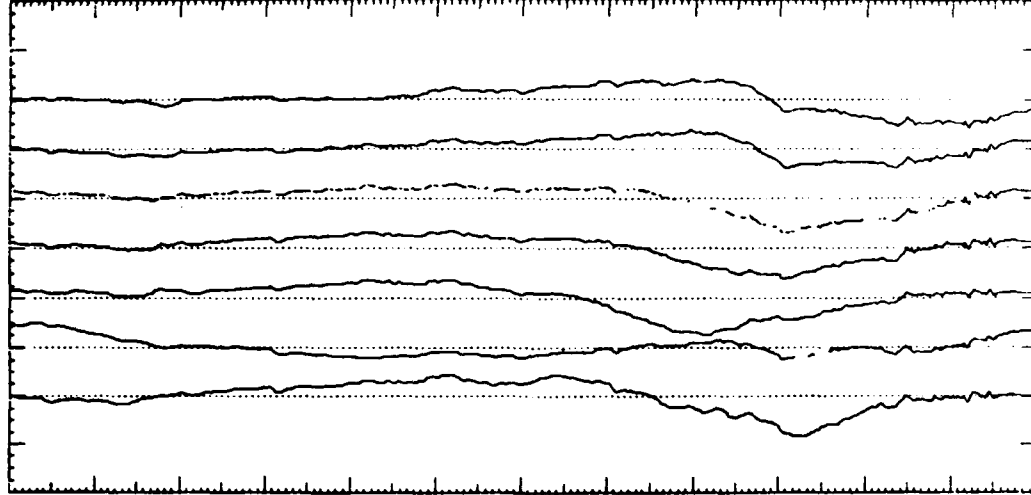
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 12 DEC 79 (DAY 79.346) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLIGHTLINE X COMPONENT

40 NANOTESLA MAGNETOMETER DIVISION

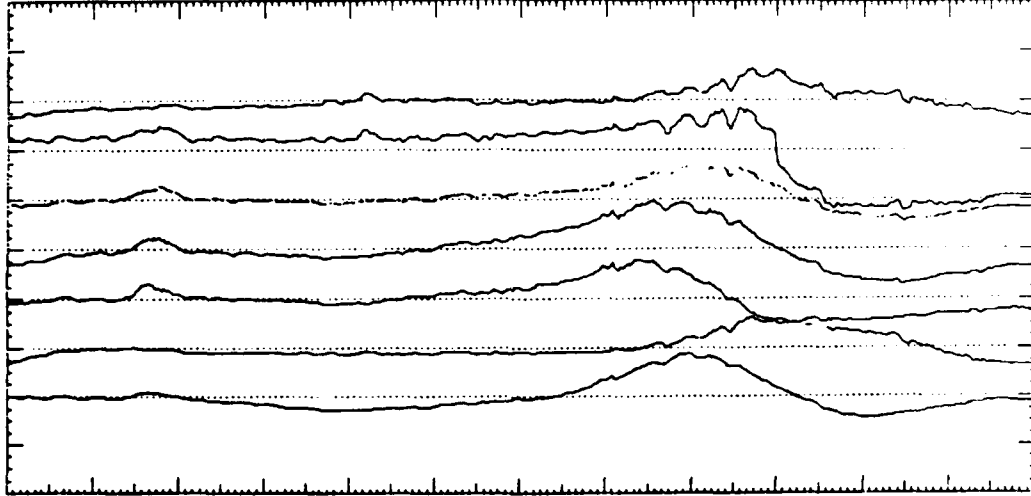
NEU
19243
RPC
18661
CDS
17314
MCL
18023
SUB
18683
LOC
25004
TPA
25424



FLIGHTLINE Y COMPONENT

40 NANOTESLA MAGNETOMETER DIVISION

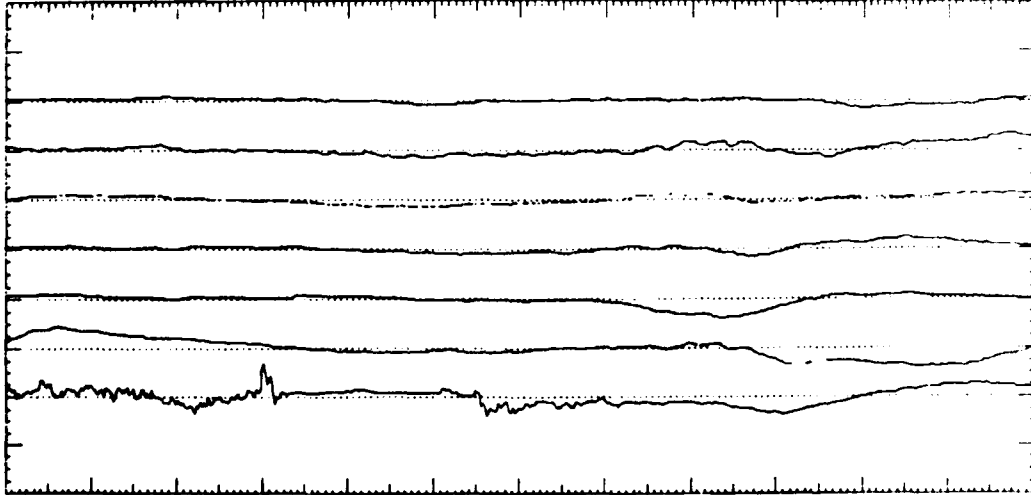
NEU
51
RPC
-9
CDS
28
MCL
205
SUB
79
LOC
53
TPA
-13



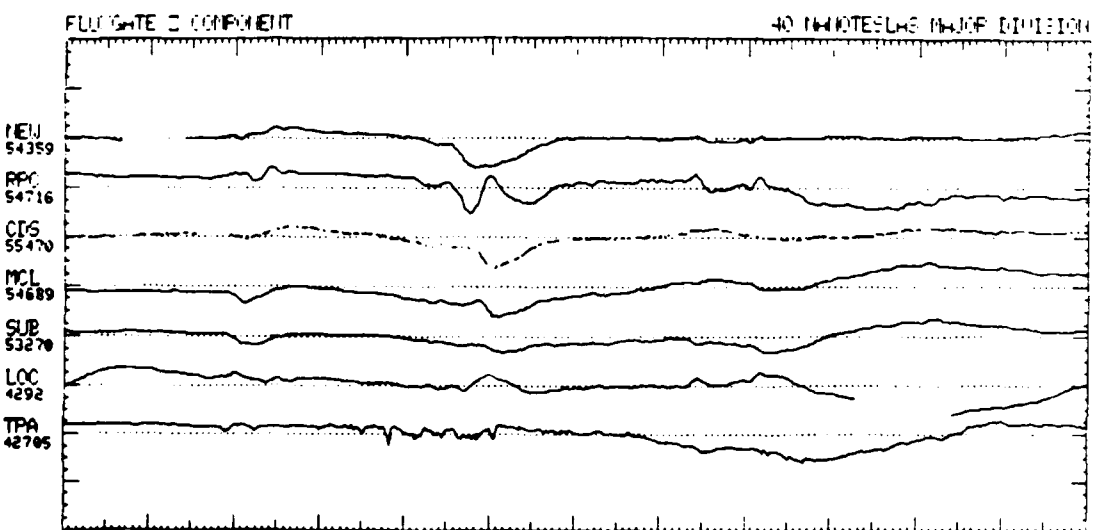
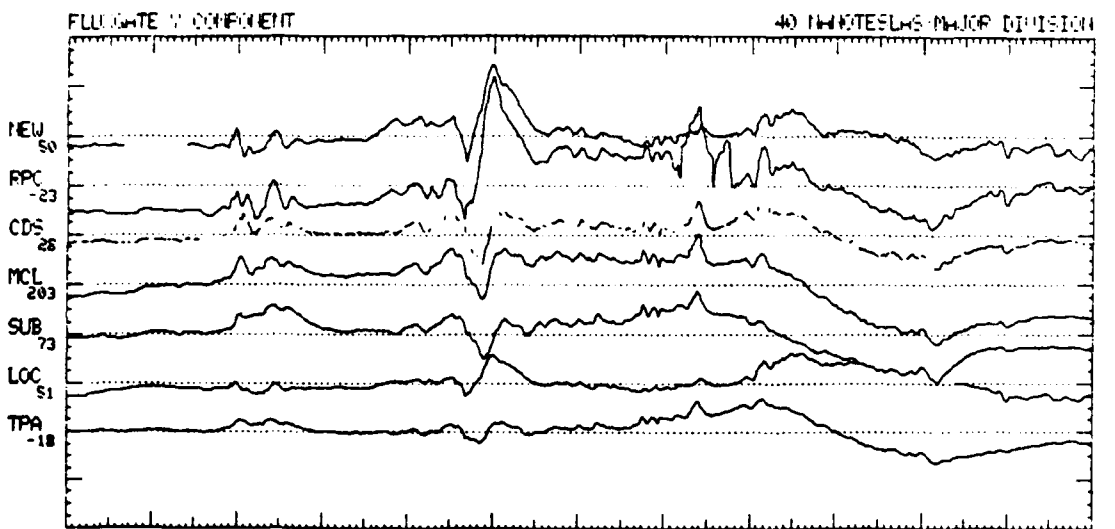
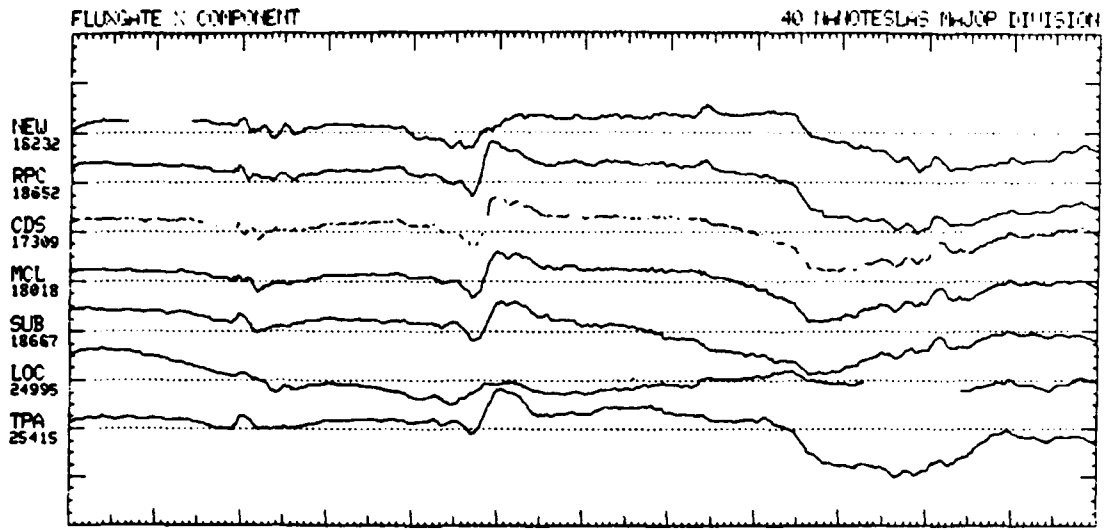
FLIGHTLINE Z COMPONENT

40 NANOTESLA MAGNETOMETER DIVISION

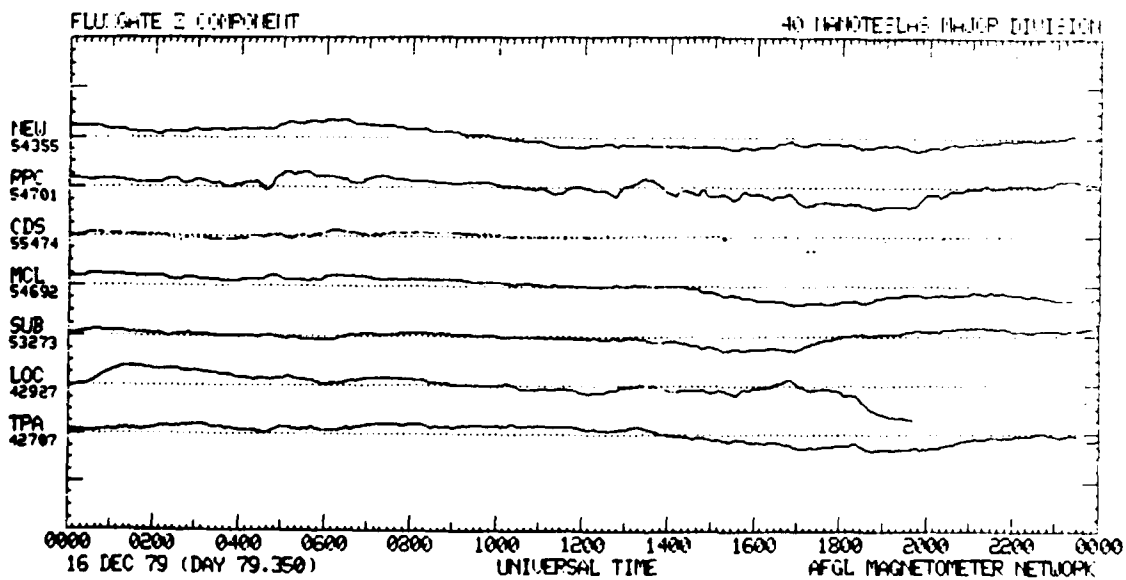
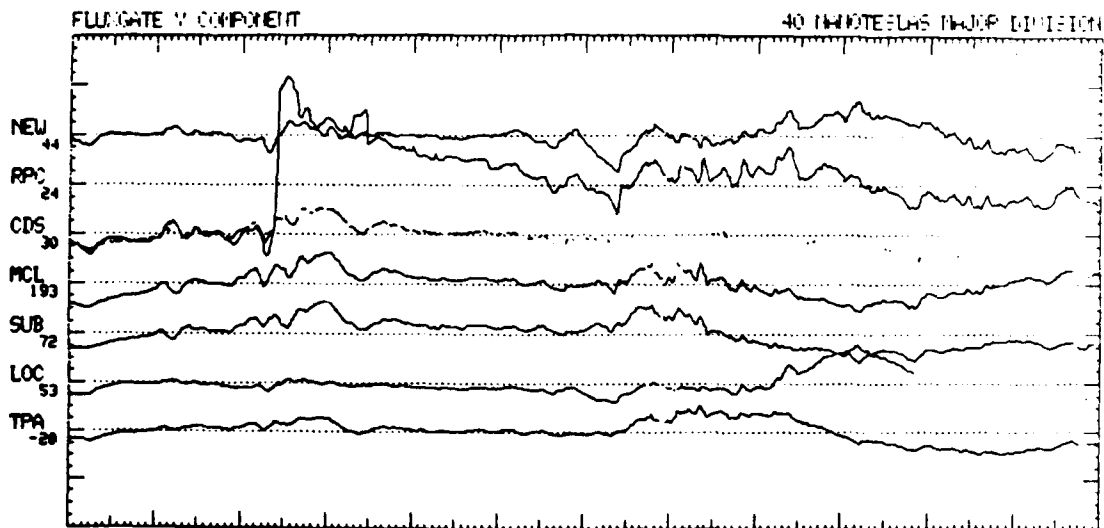
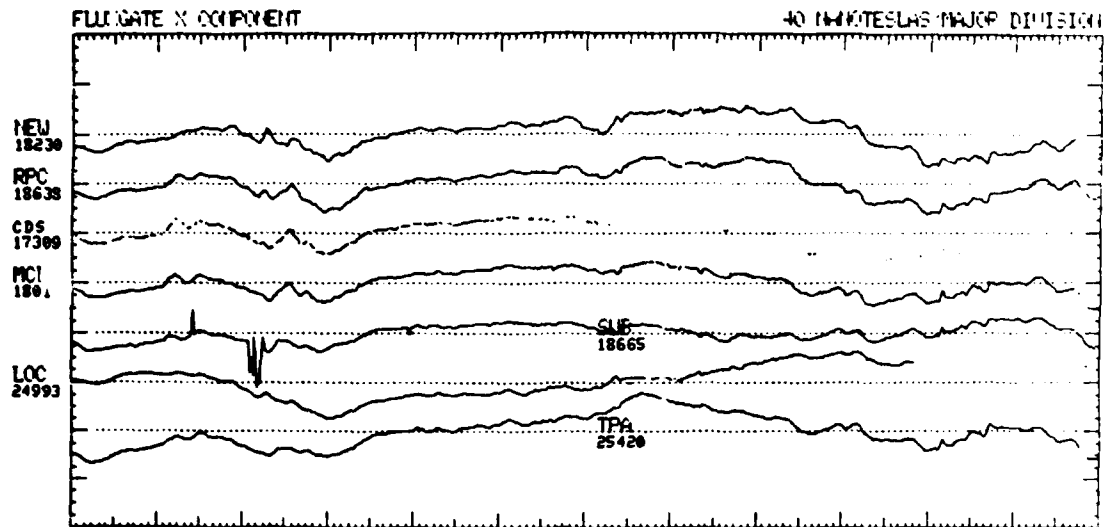
NEU
54357
RPC
54717
CDS
55465
MCL
54684
SUB
53274
LOC
4292
TPA
4270



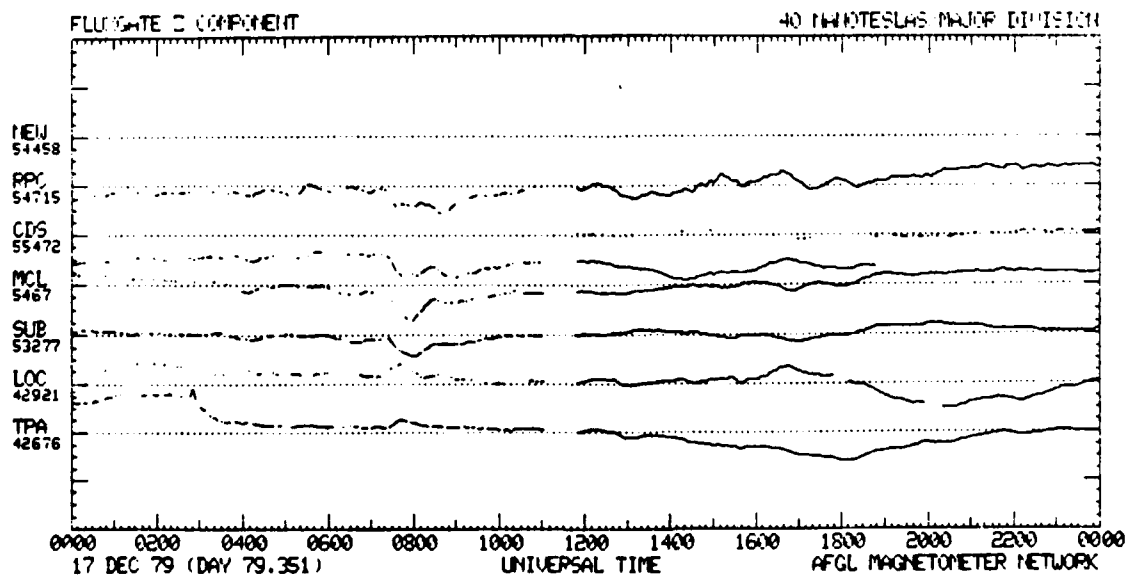
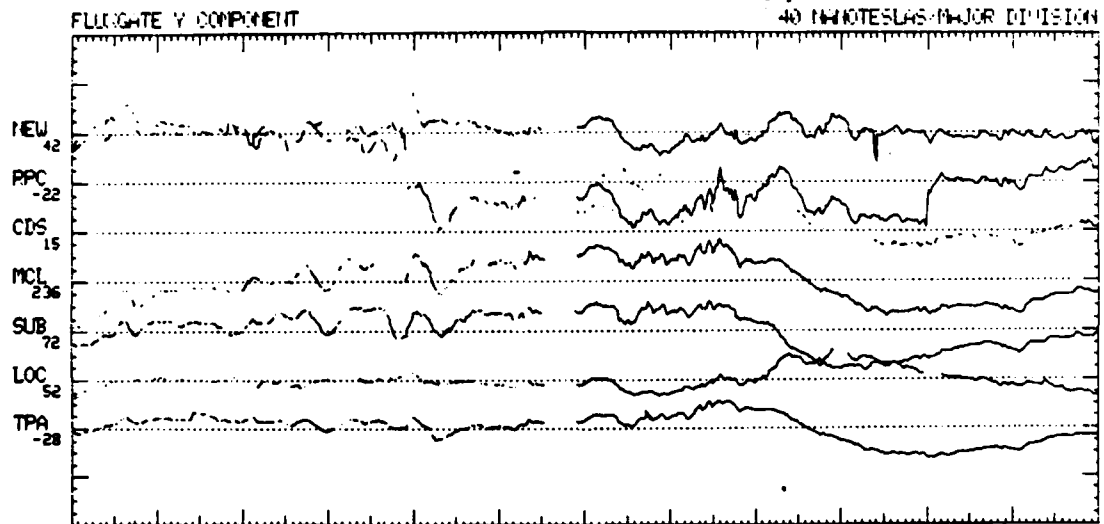
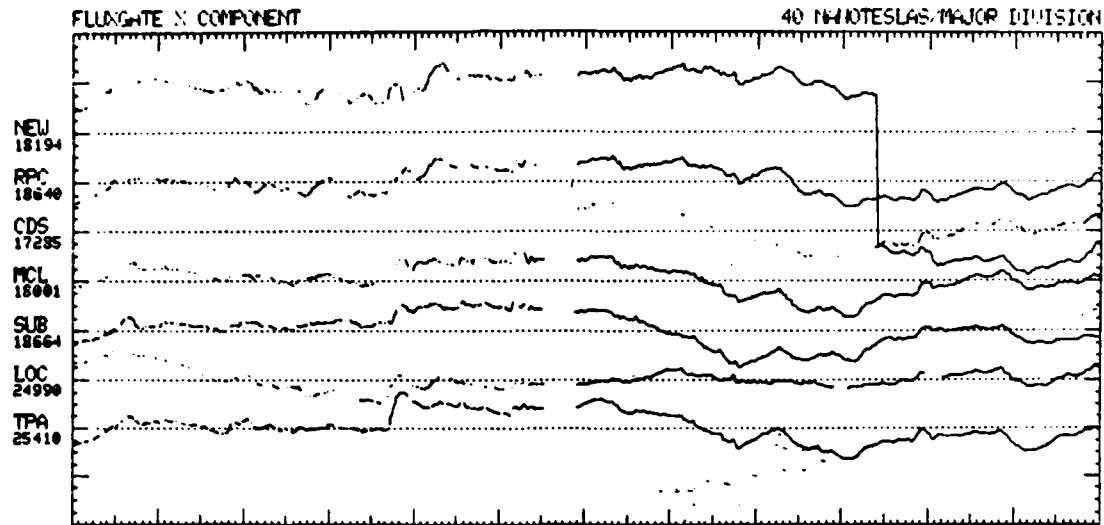
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
14 DEC 79 (DAY 79.348) UNIVEPSAL TIME AFGL MAGNETOMETER NETWORK

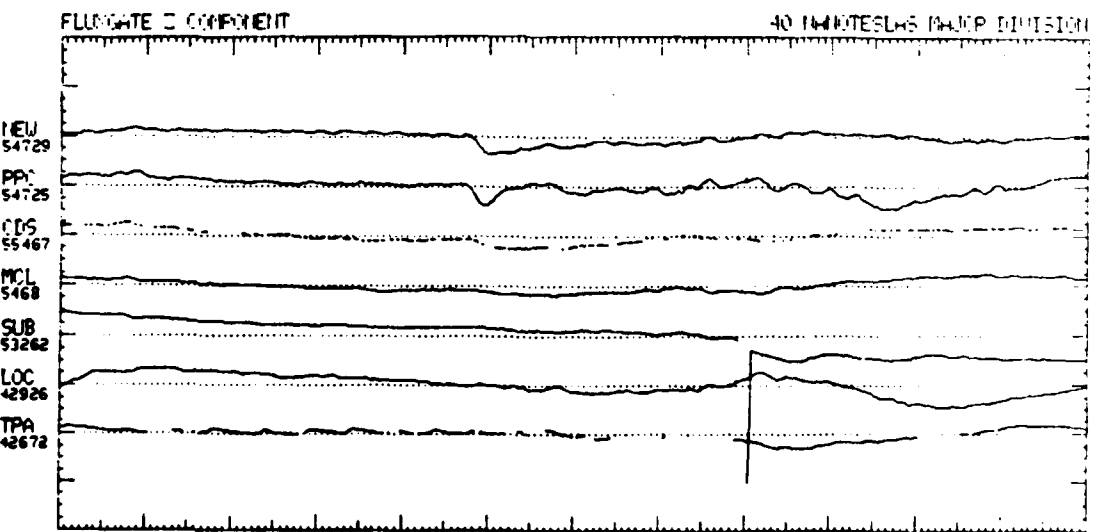
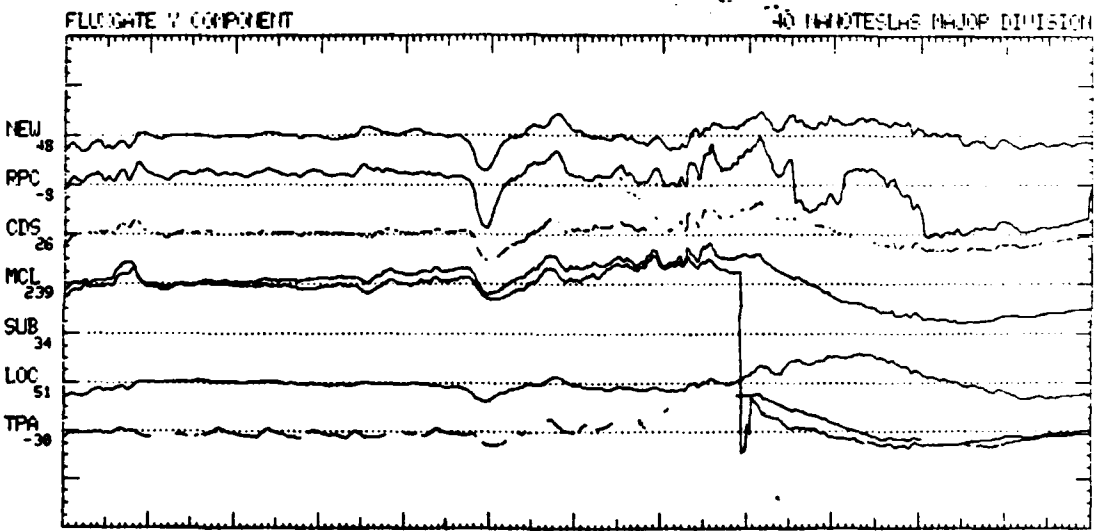
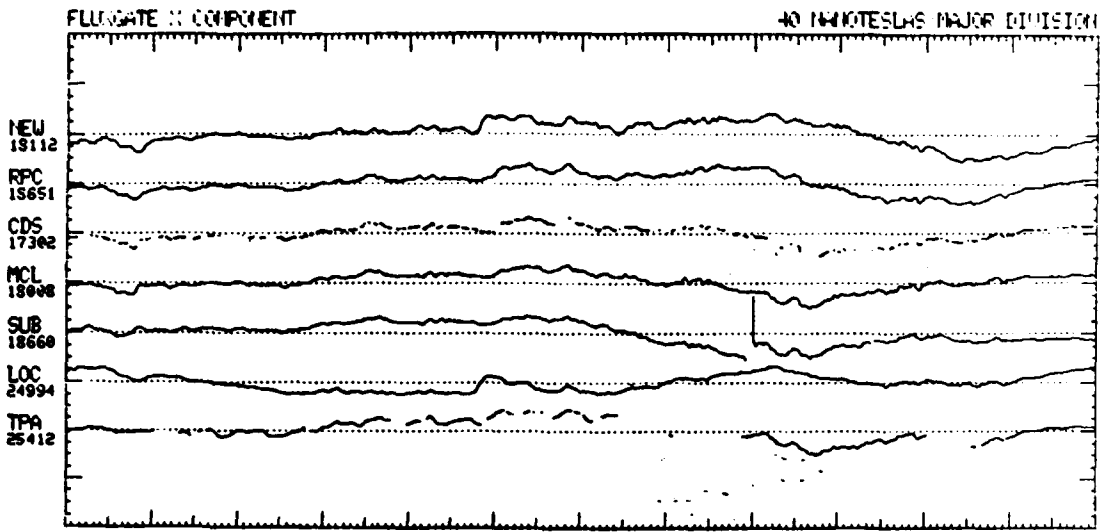


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 15 DEC 79 (DAY 79.349) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

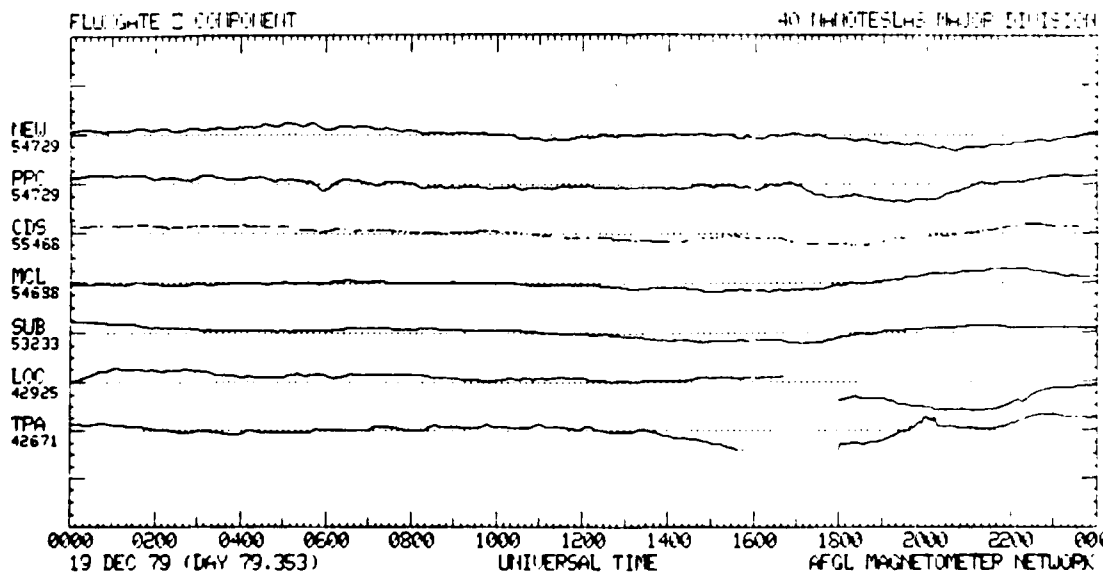
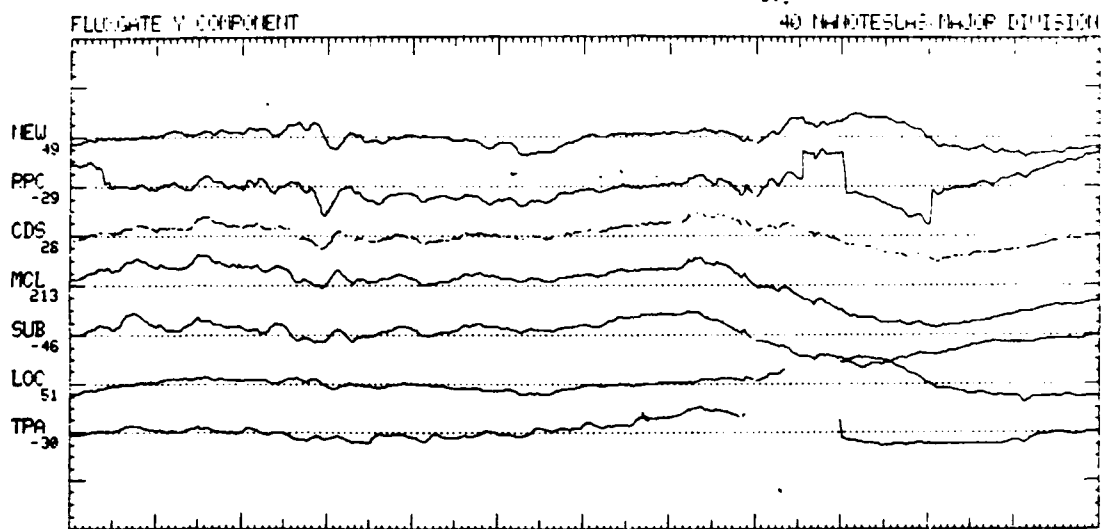
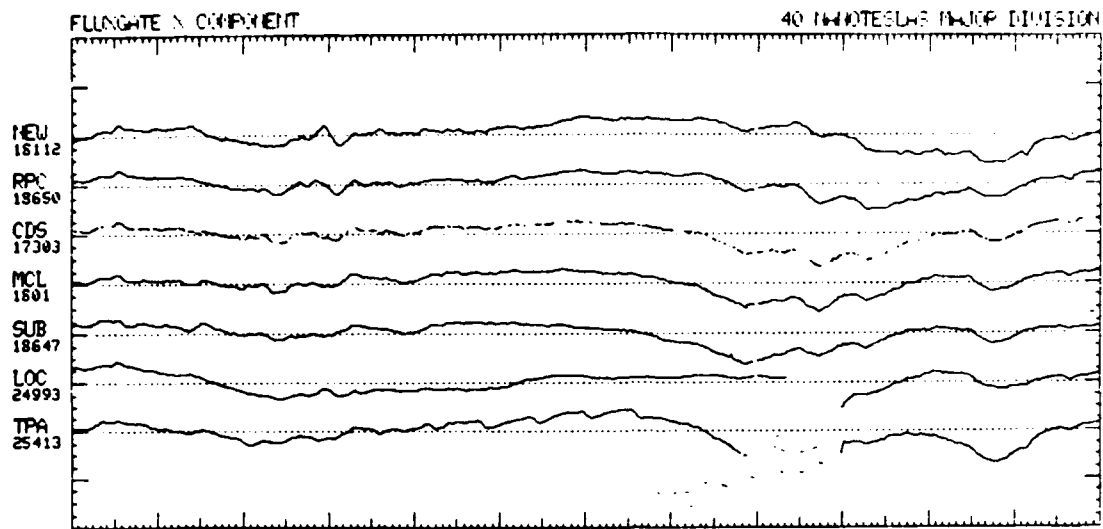


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 16 DEC 79 (DAY 79.350) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



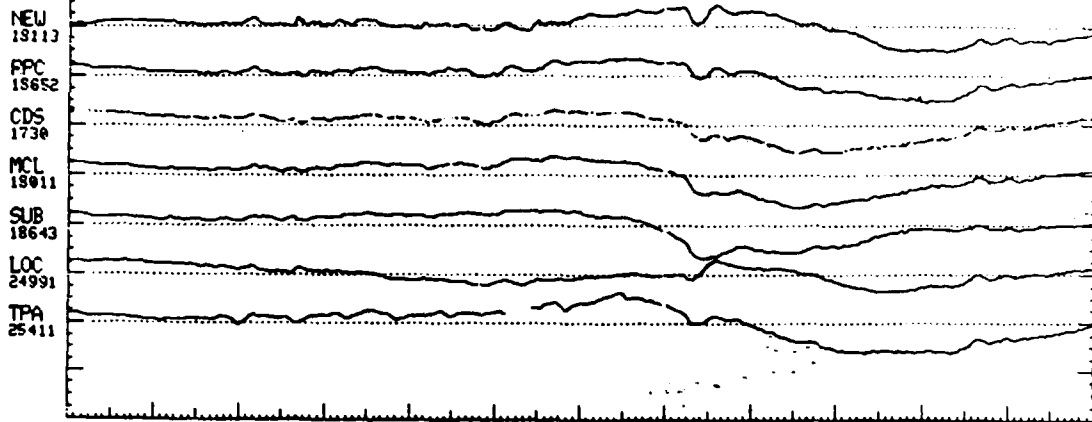


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 18 DEC 79 (DAY 79.352) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



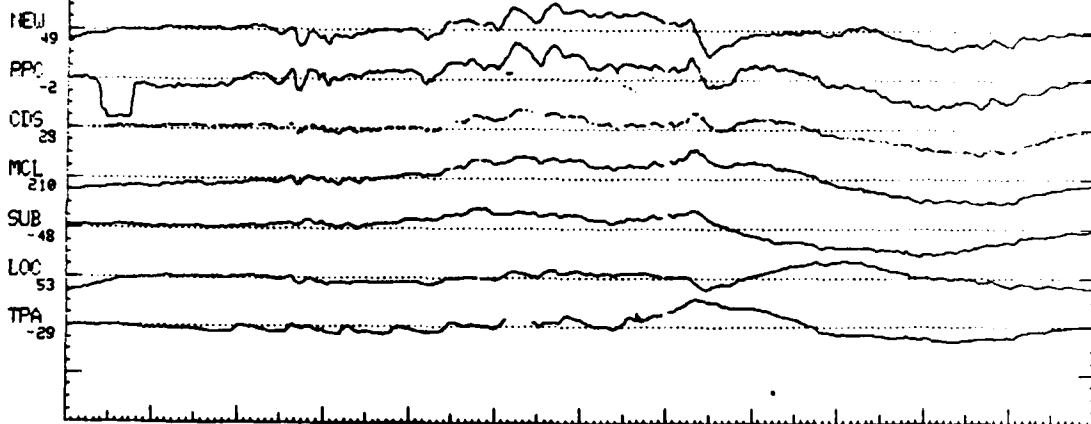
FLUGATE X COMPONENT

40 MINUTES LAG MAJOR DIVISION



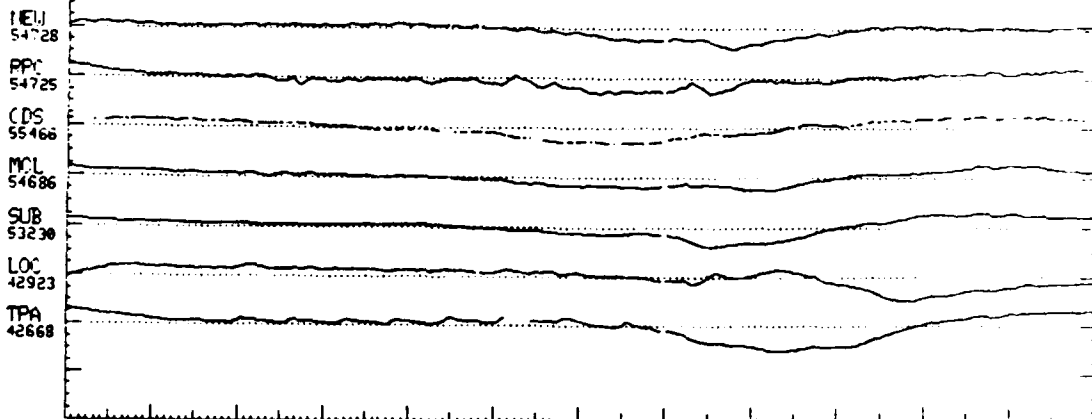
FLUGATE Y COMPONENT

40 MINUTES LAG MAJOR DIVISION



FLUGATE Z COMPONENT

40 MINUTES LAG MAJOR DIVISION

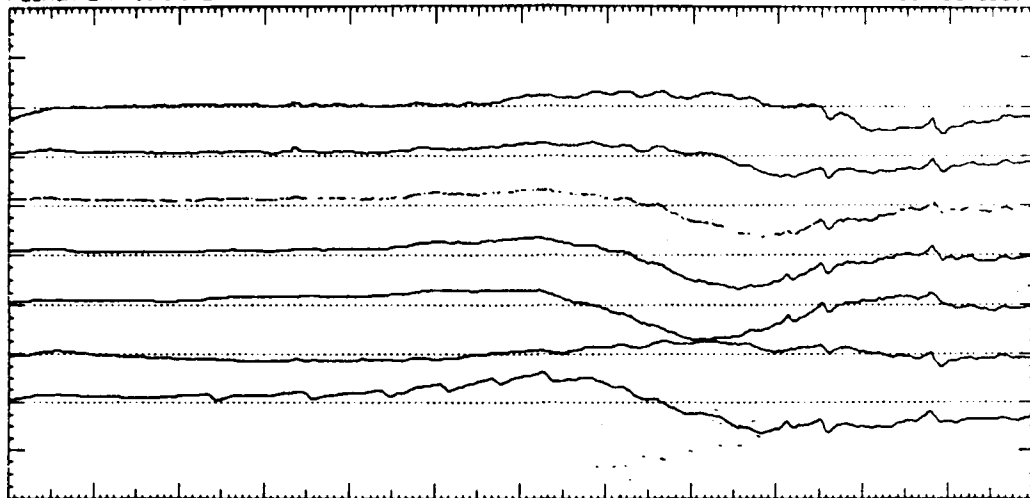


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 20 DEC 79 (DAY 79.354) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLIGHTGATE X COMPONENT

40 NANOTESLAES MAJOR DIVISION

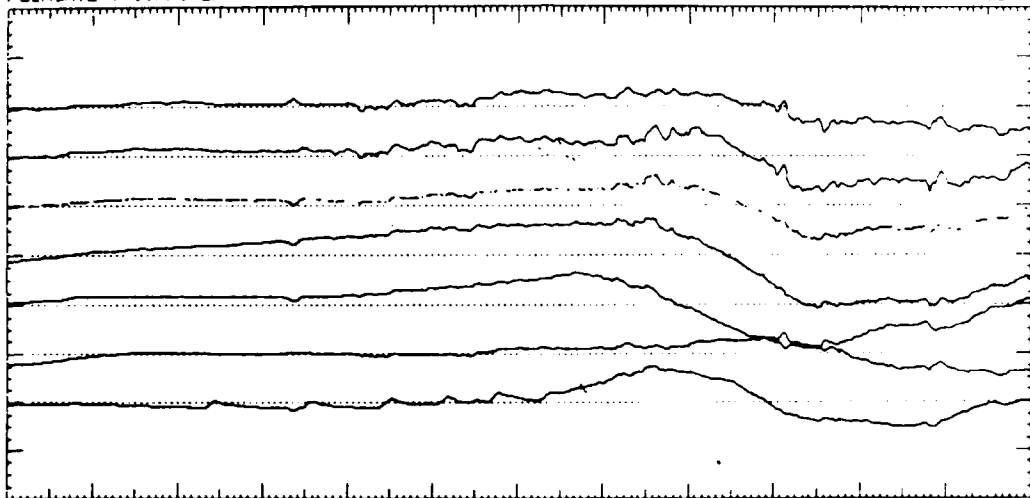
NEW
18117
RPC
18651
CDS
17304
MCL
18011
SUB
18642
LOC
24998
TPA
25408



FLIGHTGATE Y COMPONENT

40 NANOTESLAES MAJOR DIVISION

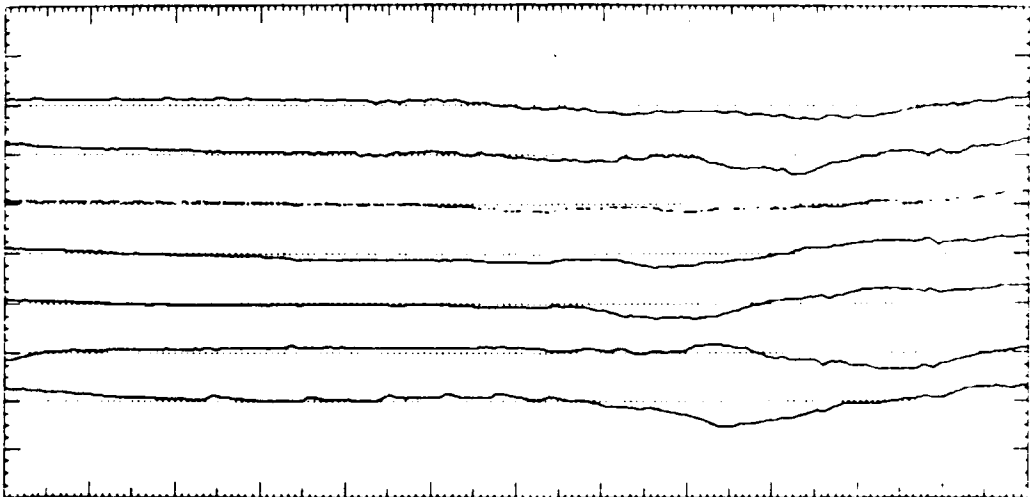
NEW
48
RPC
0
CDS
27
MCL
210
SUB
-51
LOC
53
TPA
-27



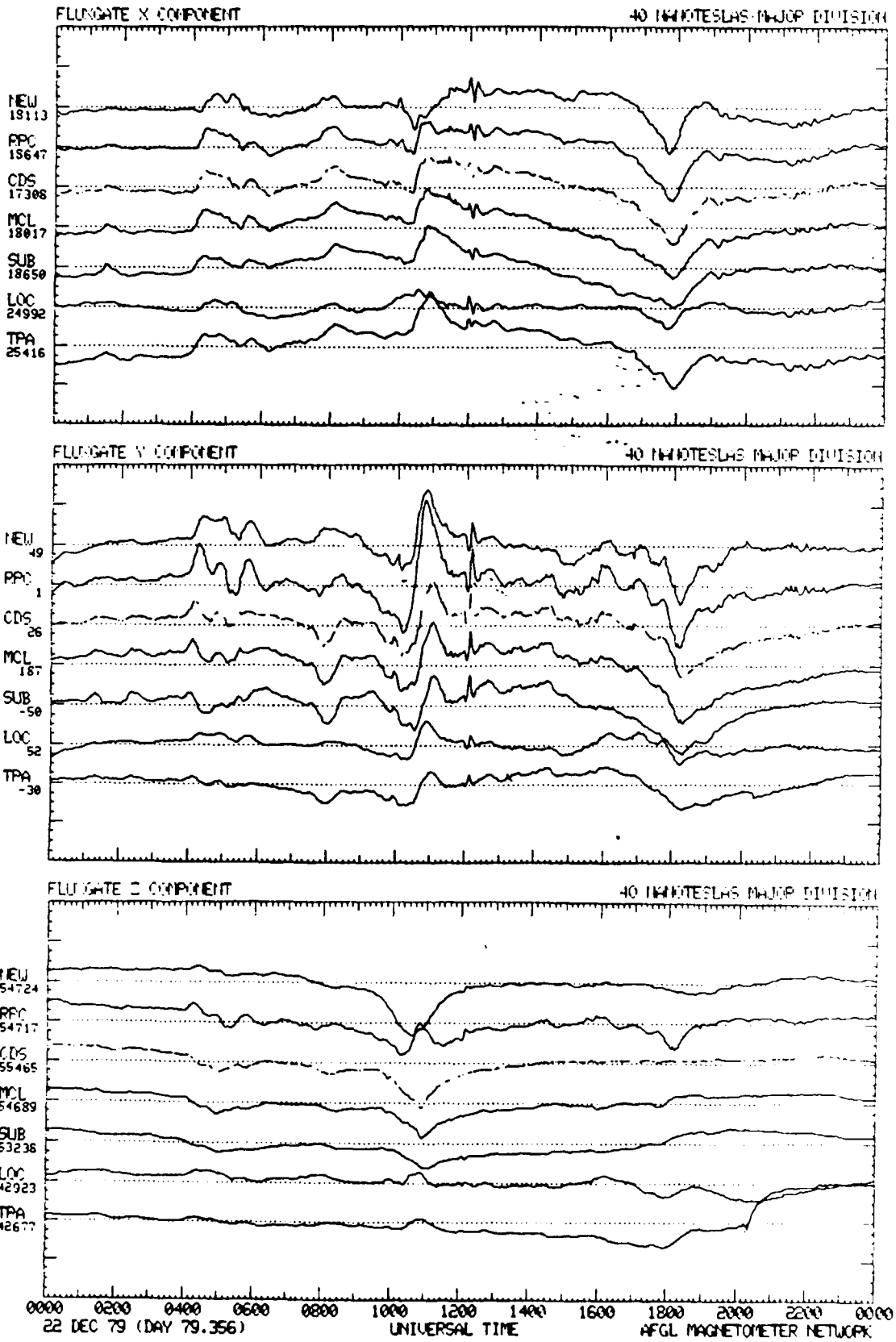
FLIGHTGATE Z COMPONENT

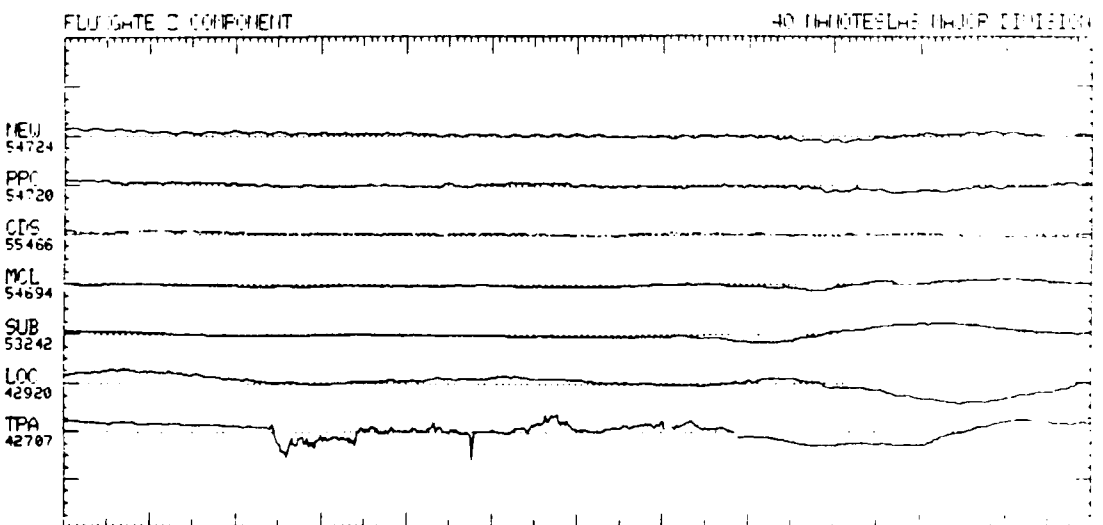
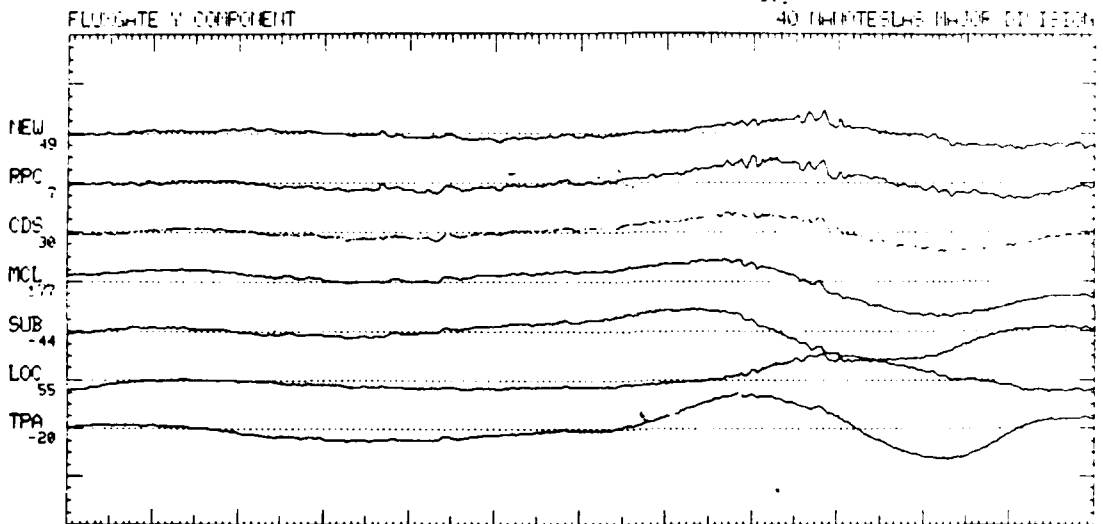
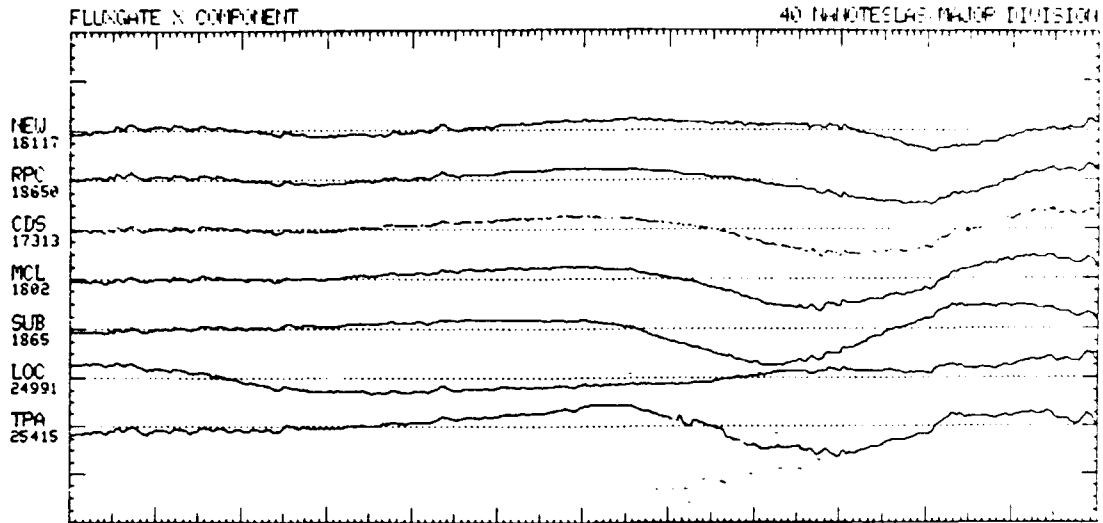
40 NANOTESLAES MAJOR DIVISION

NEW
54727
RPC
54723
CDS
55471
MCL
54687
SUB
53235
LOC
42925
TPA
4267

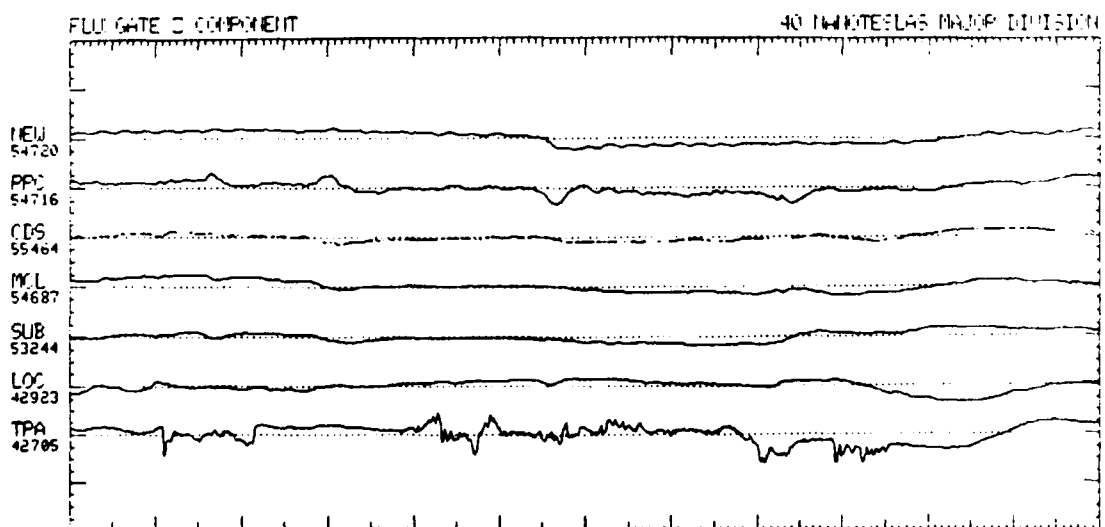
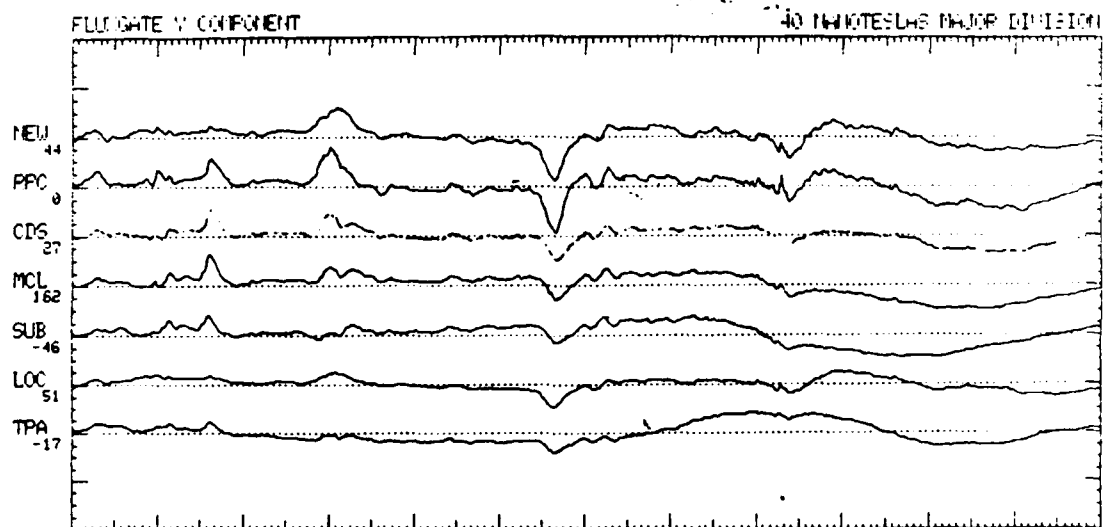
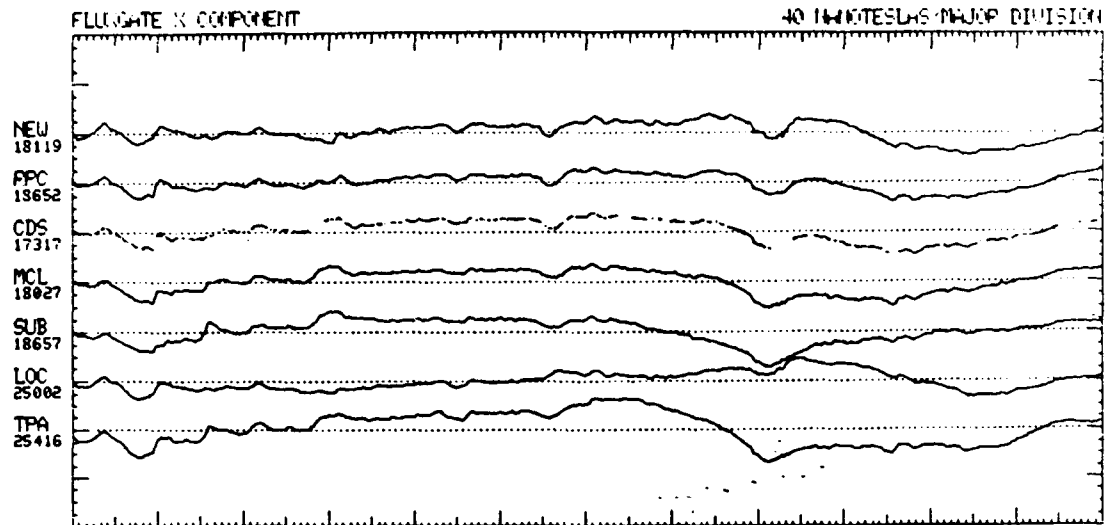


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 DEC 79 (DAY 79.355) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

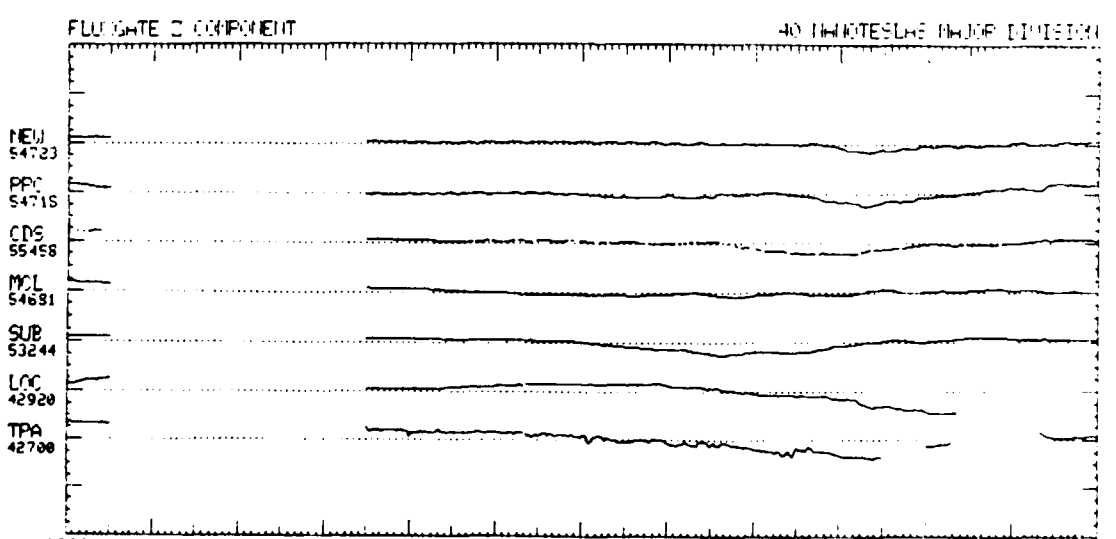
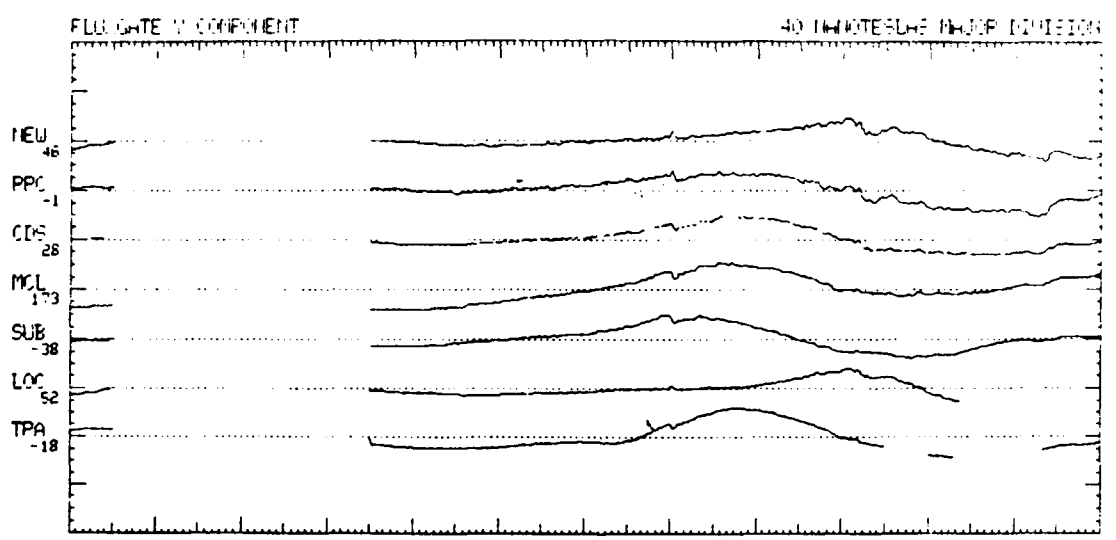
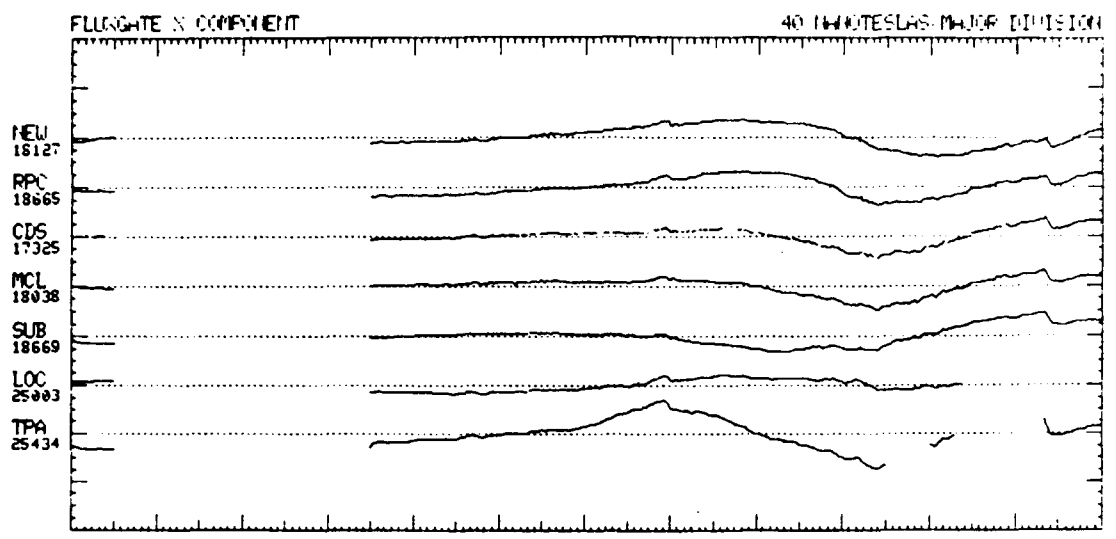




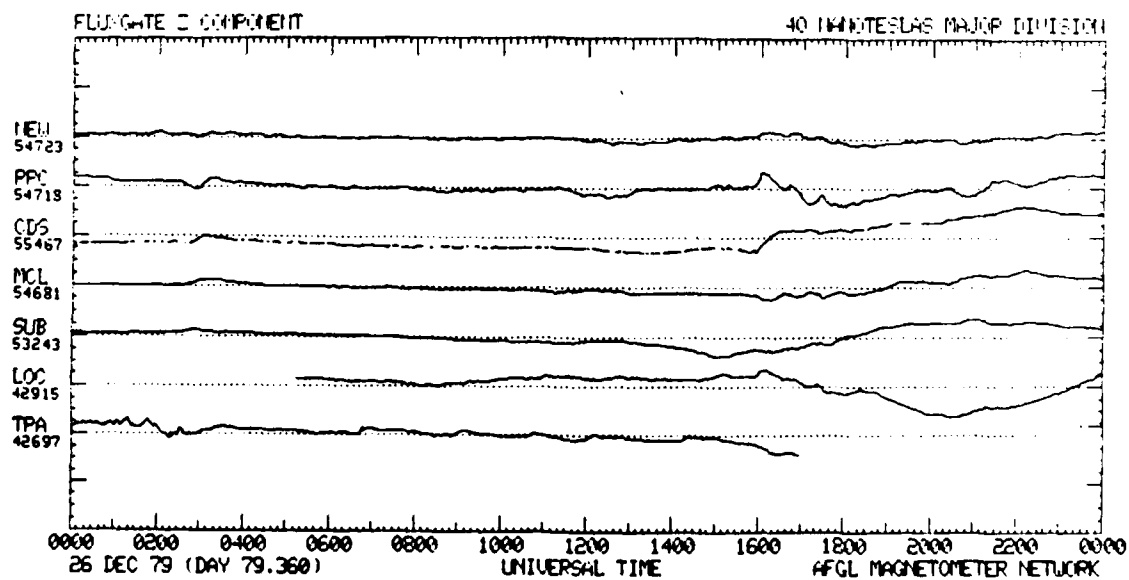
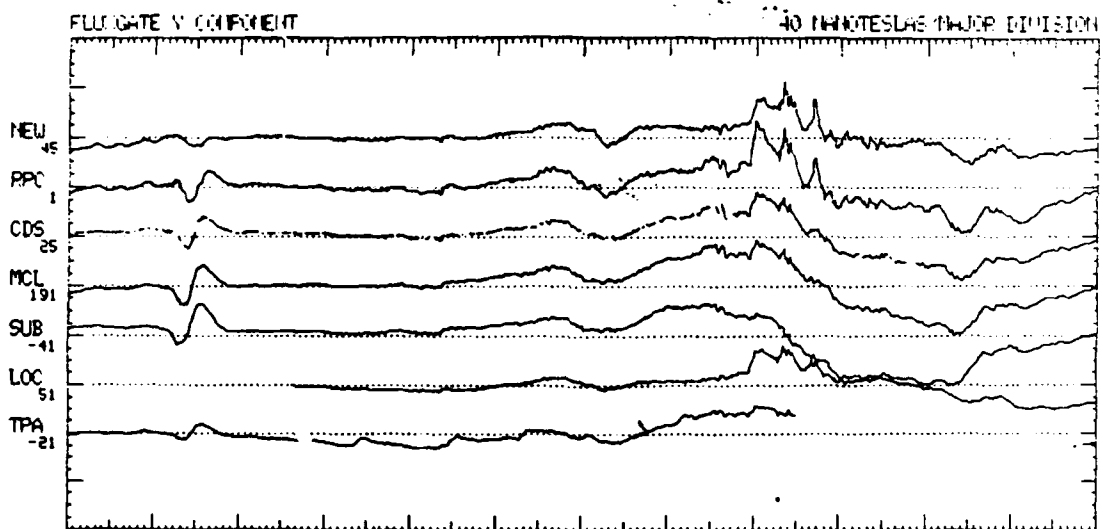
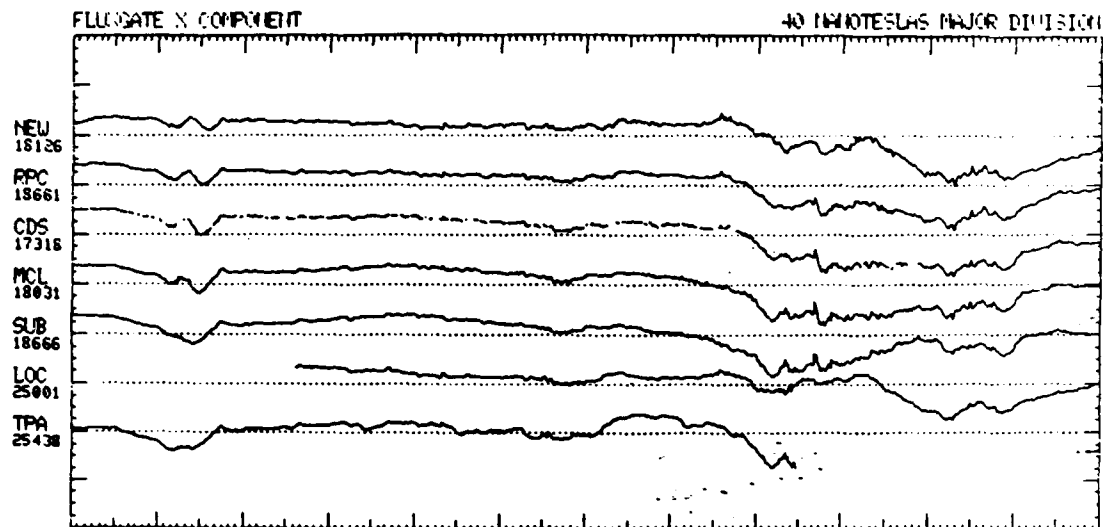
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 23 DEC 79 (DAY 79.357) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 24 DEC 79 (DAY 79.358) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



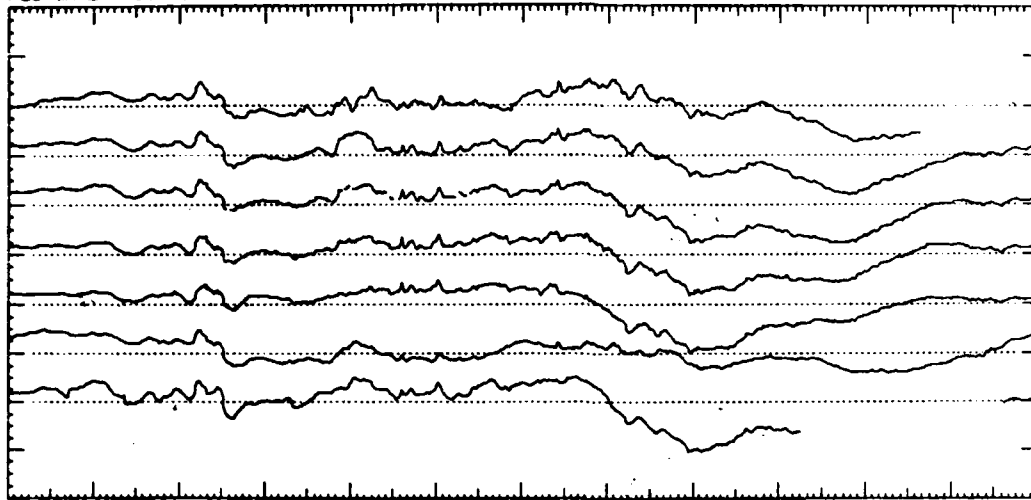
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
 25 DEC 79 (DAY 79.359) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLIGHTGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

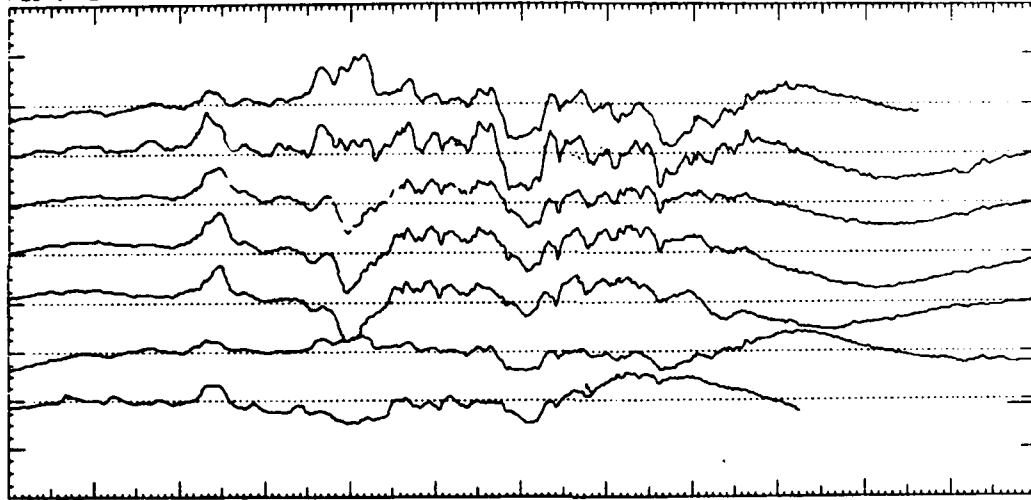
NEW
18117
RPC
18659
CDS
17301
MCL
18923
SUB
18657
LOC
24989
TPA
25416



FLIGHTGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

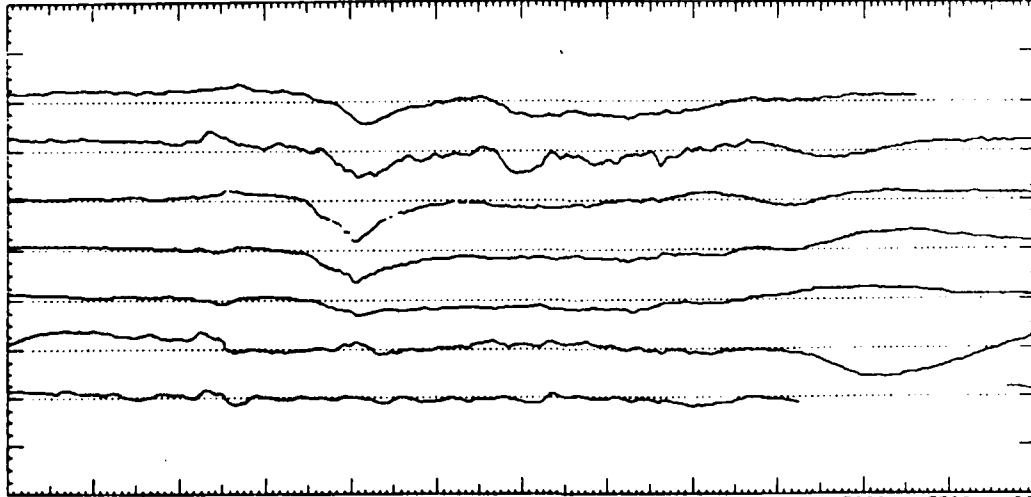
NEW
48
RPC
-1
CDS
23
MCL
188
SUB
-44
LOC
51
TPA
-23



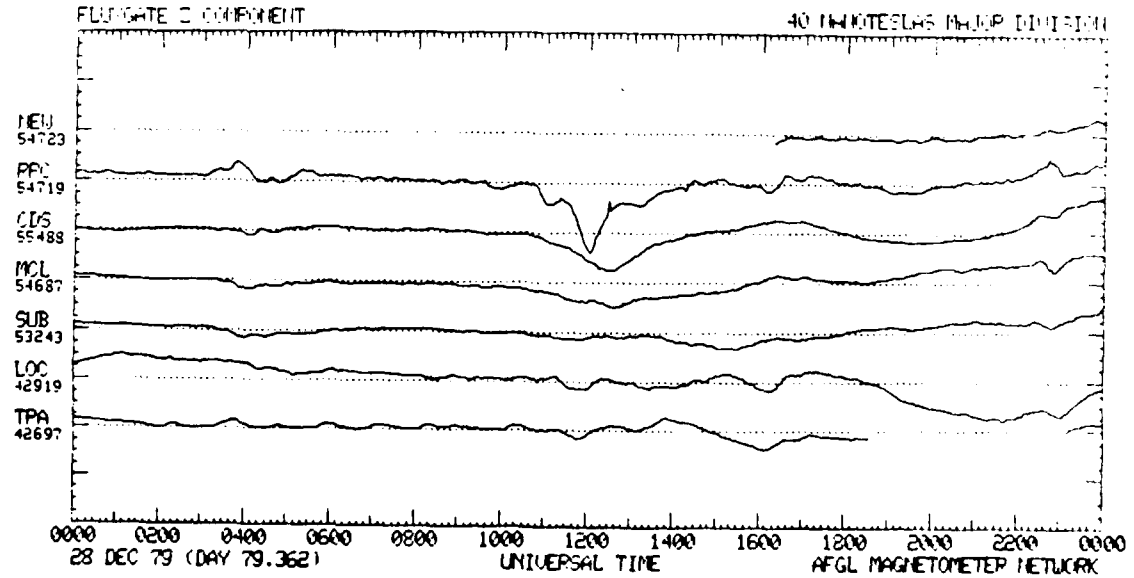
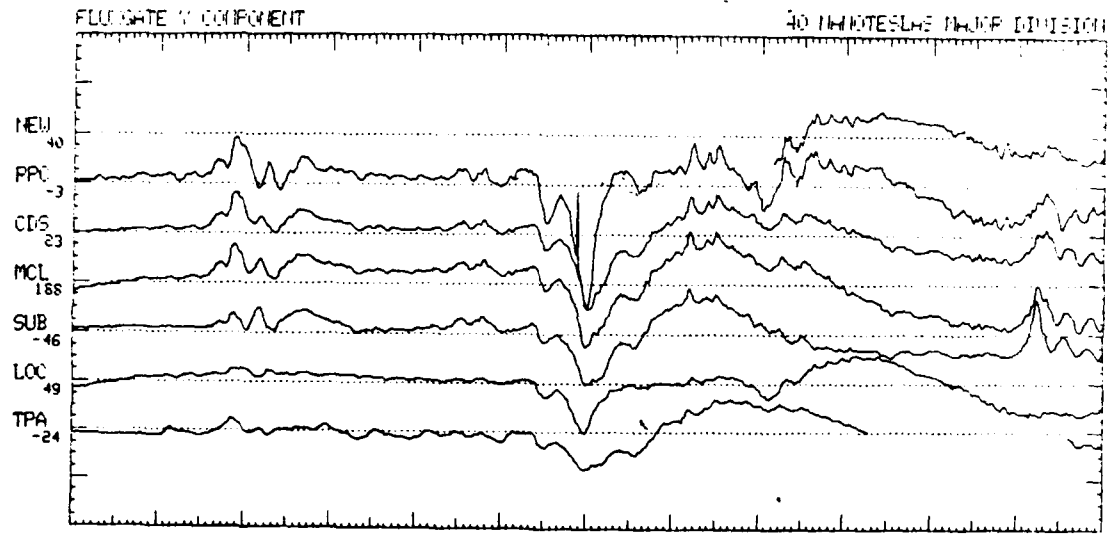
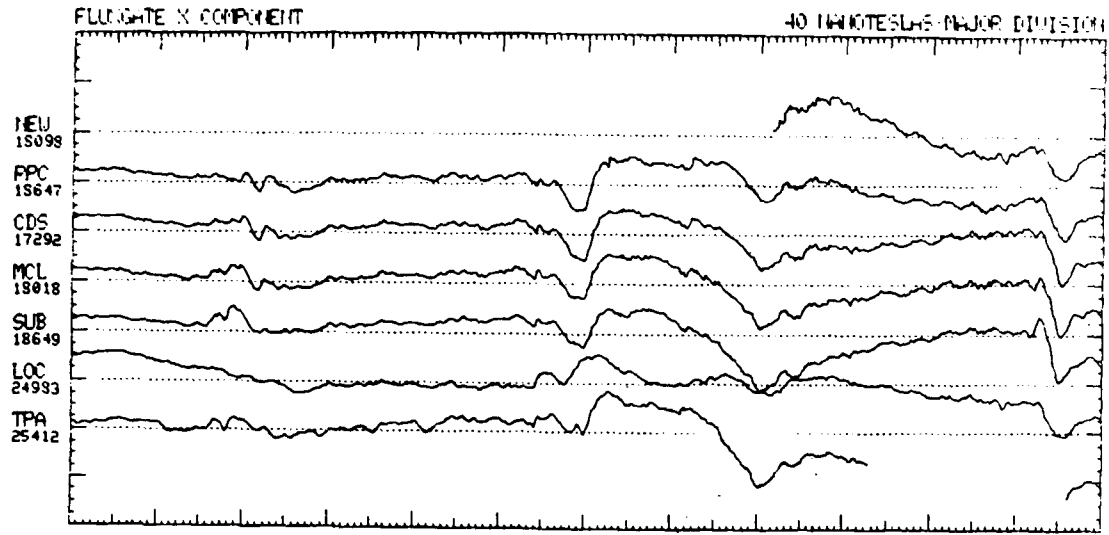
FLIGHTGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54722
PPC
54717
CDS
55483
MCL
54685
SUB
53245
LOC
42921
TPA
42698

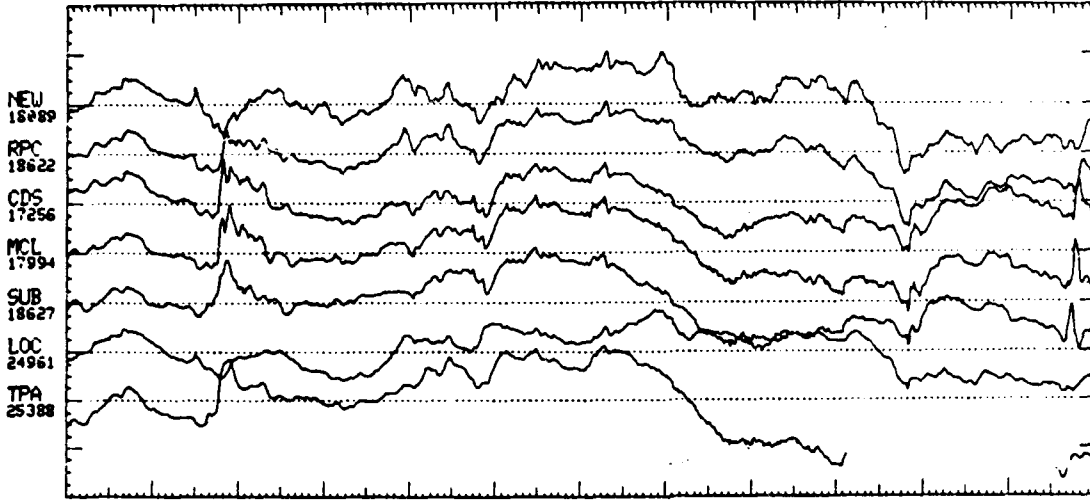


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
27 DEC 79 (DAY 79.361) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



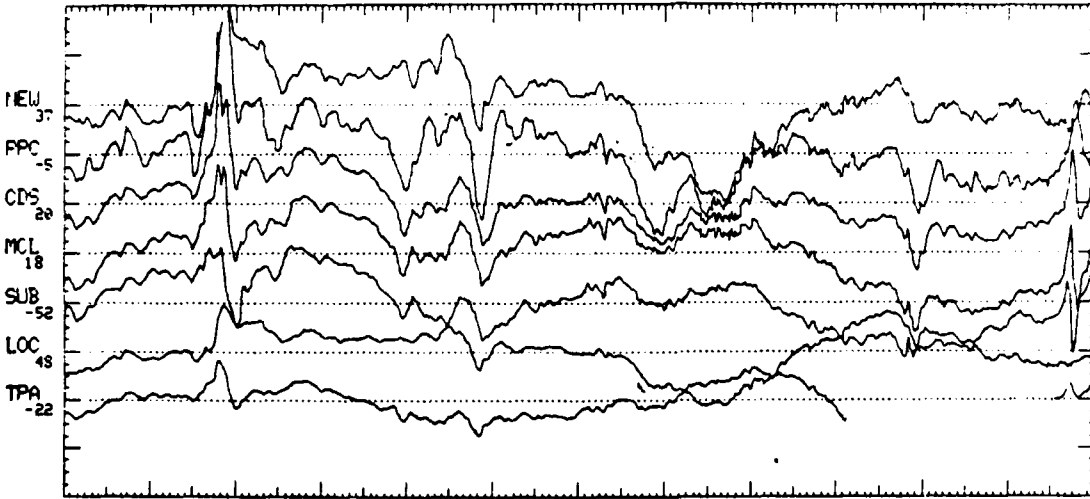
FLIGHTLINE X COMPONENT

40 NANOTESLAH MAJOR DIVISION



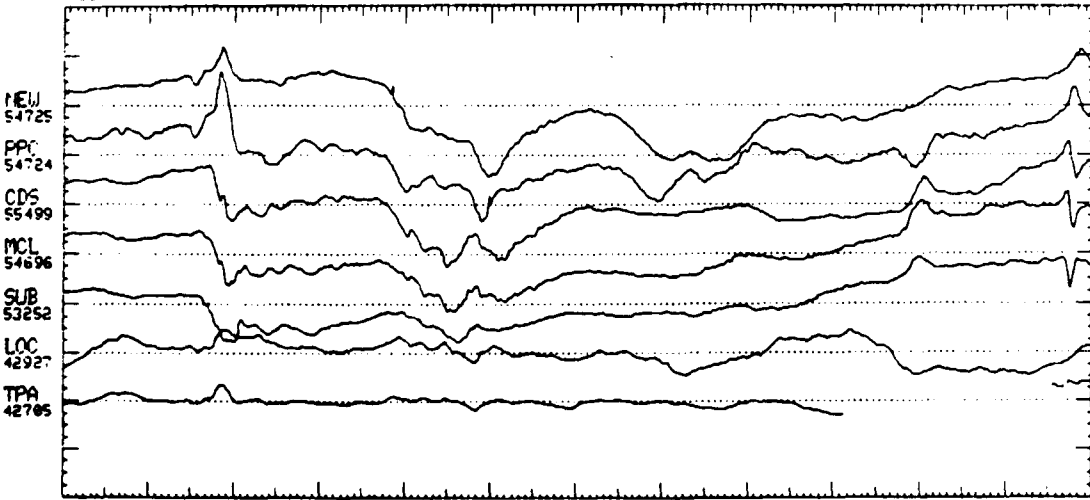
FLIGHTLINE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION

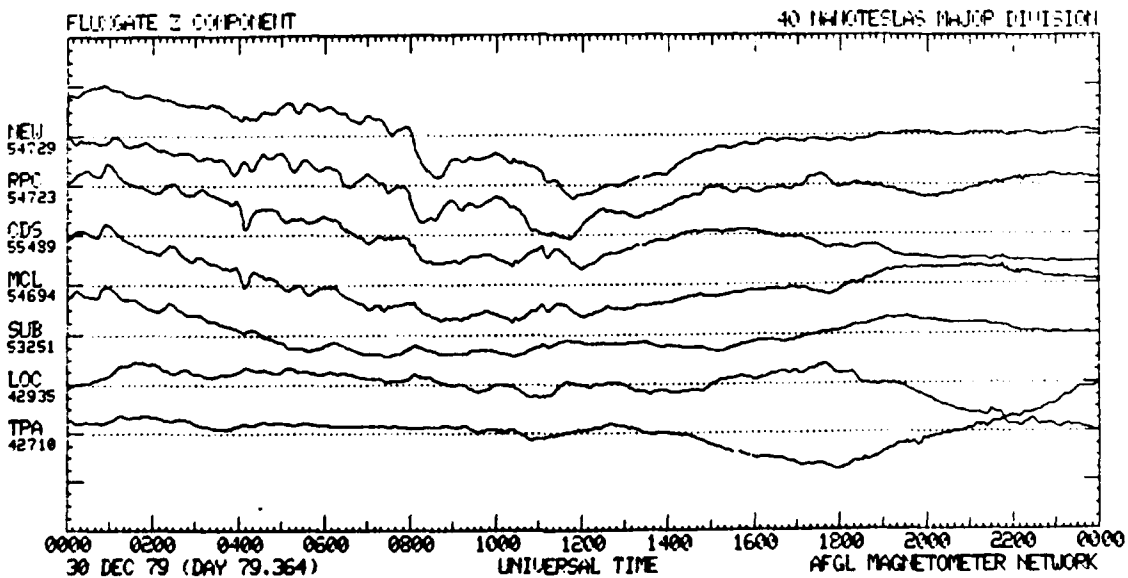
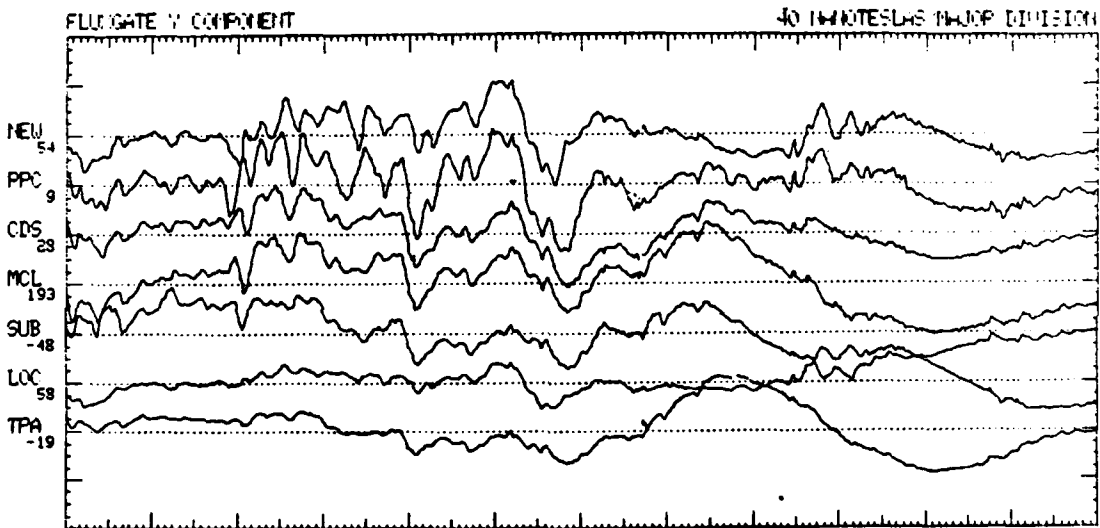
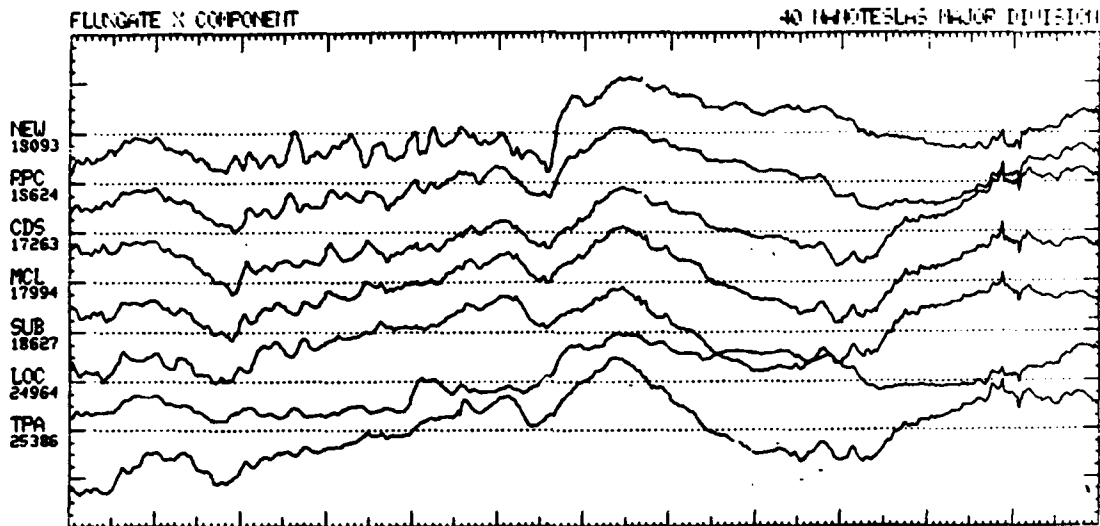


FLIGHTLINE Z COMPONENT

40 NANOTESLAH MAJOR DIVISION



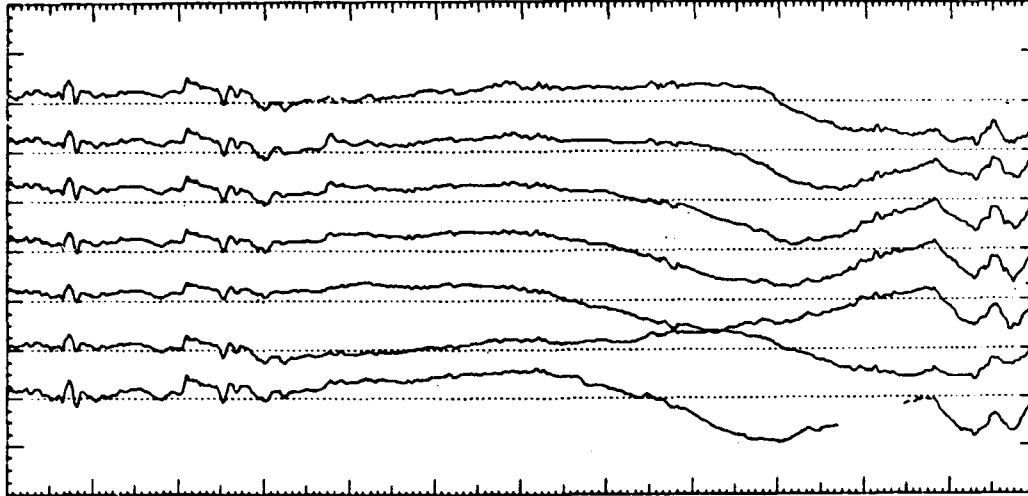
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
29 DEC 79 (DAY 79.363) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAH MAJOR DIVISION

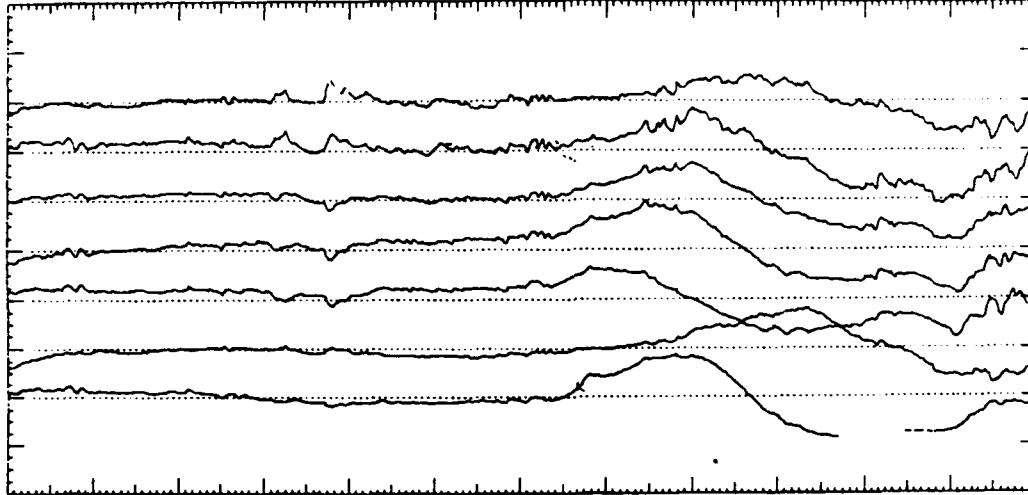
NEW
18109
RPC
18641
CDS
17296
MCL
18013
SUB
18645
LOC
24990
TPA
25403



FLUXGATE Y COMPONENT

40 NANOTESLAH MAJOR DIVISION

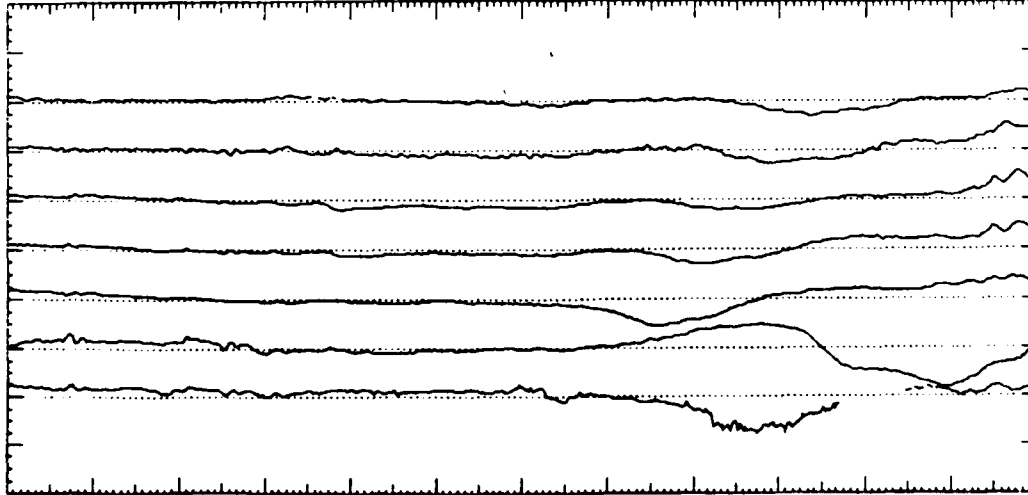
NEW
47
RPC
-1
CDS
26
MCL
186
SUB
-52
LOC
56
TPA
-24



FLUXGATE Z COMPONENT

40 NANOTESLAH MAJOR DIVISION

NEW
54729
RPC
54724
CDS
55462
MCL
54692
SUB
53243
LOC
42934
TPA
42701

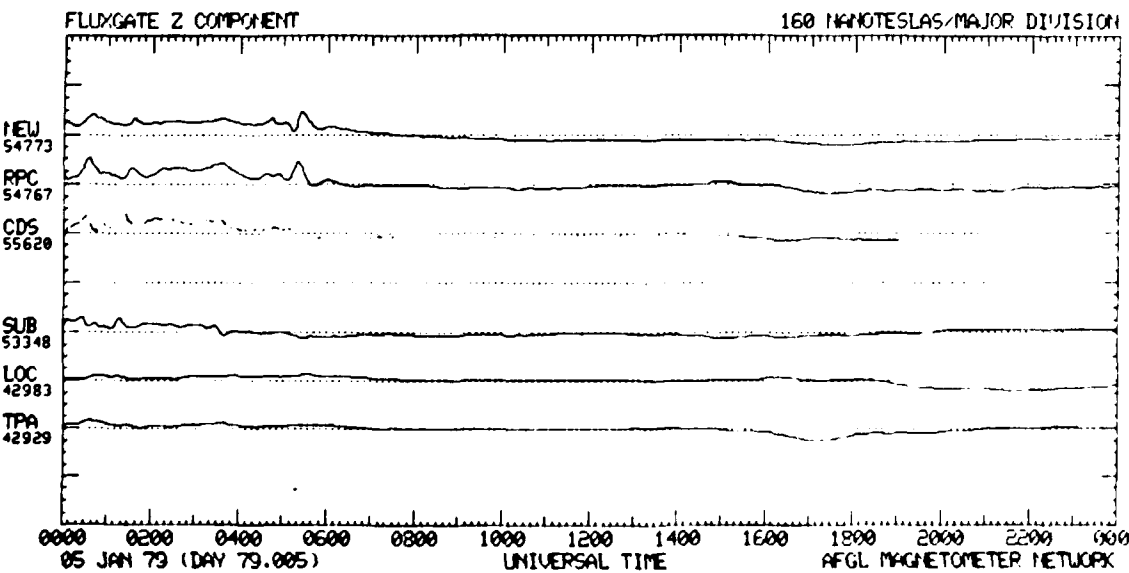
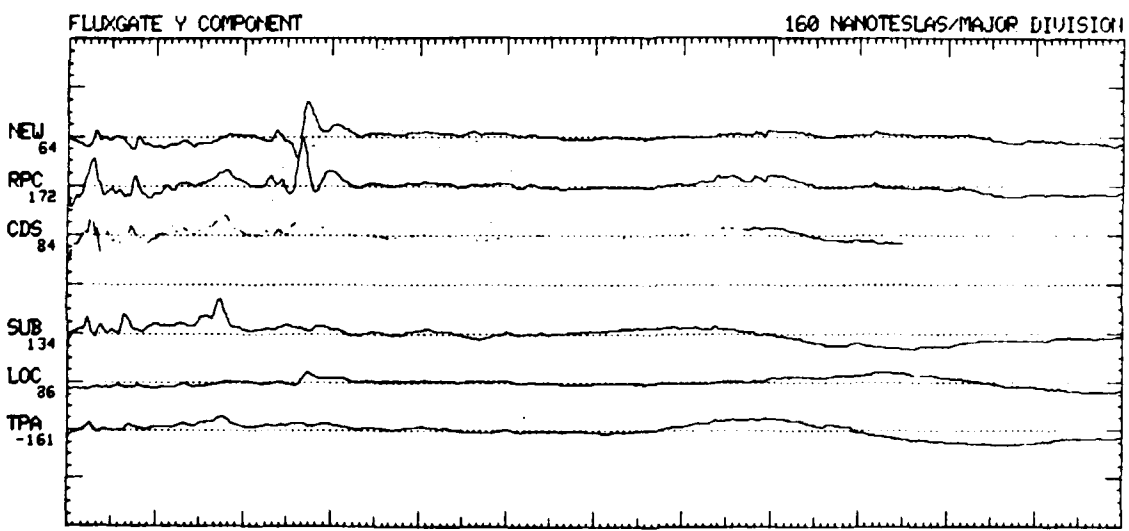
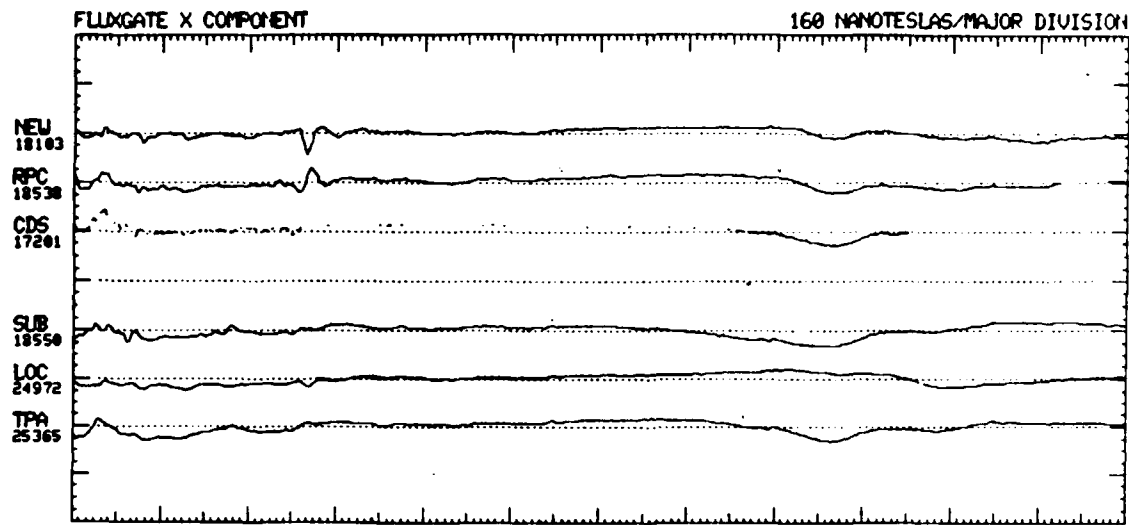


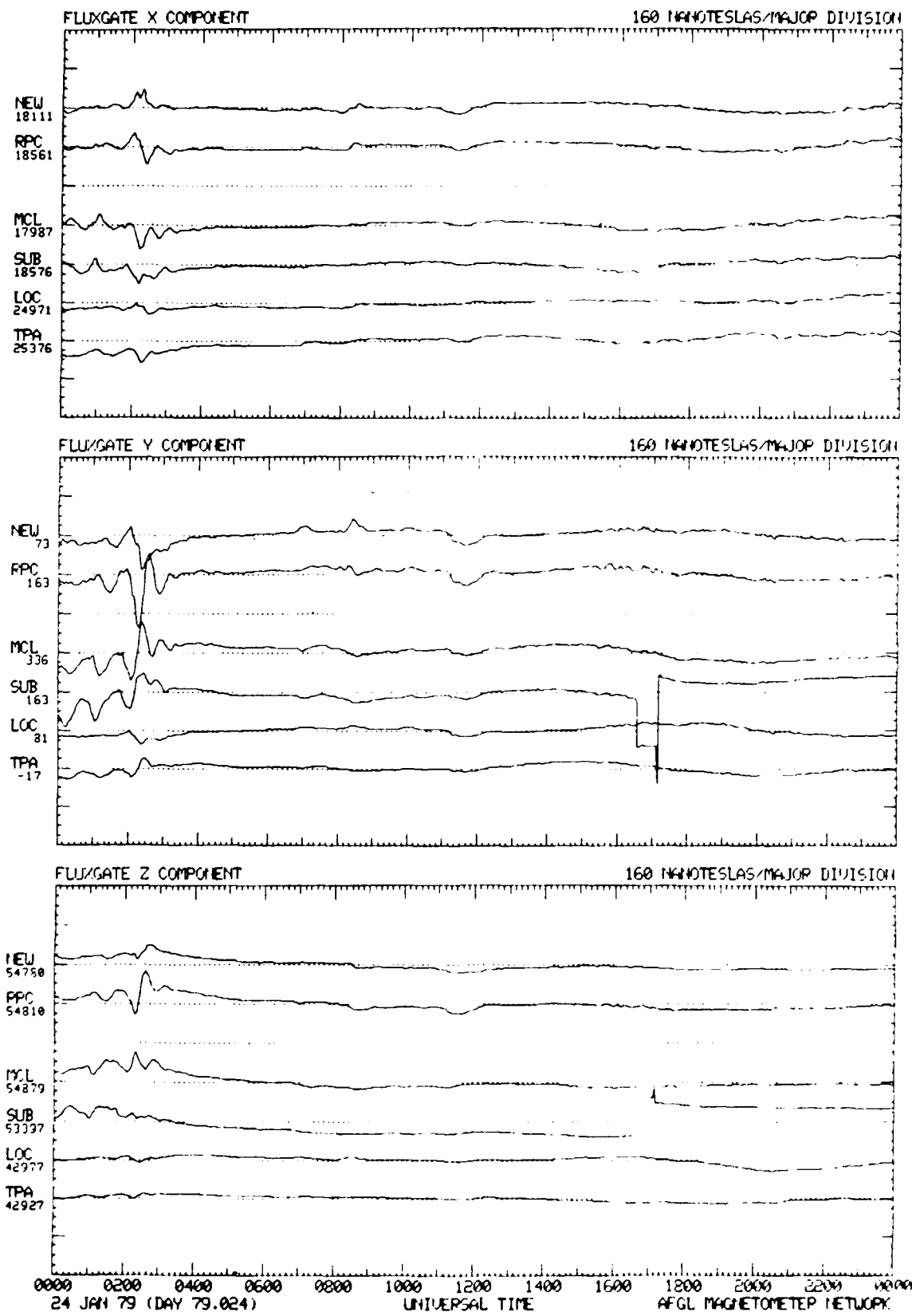
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
31 DEC 79 (DAY 79.365) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

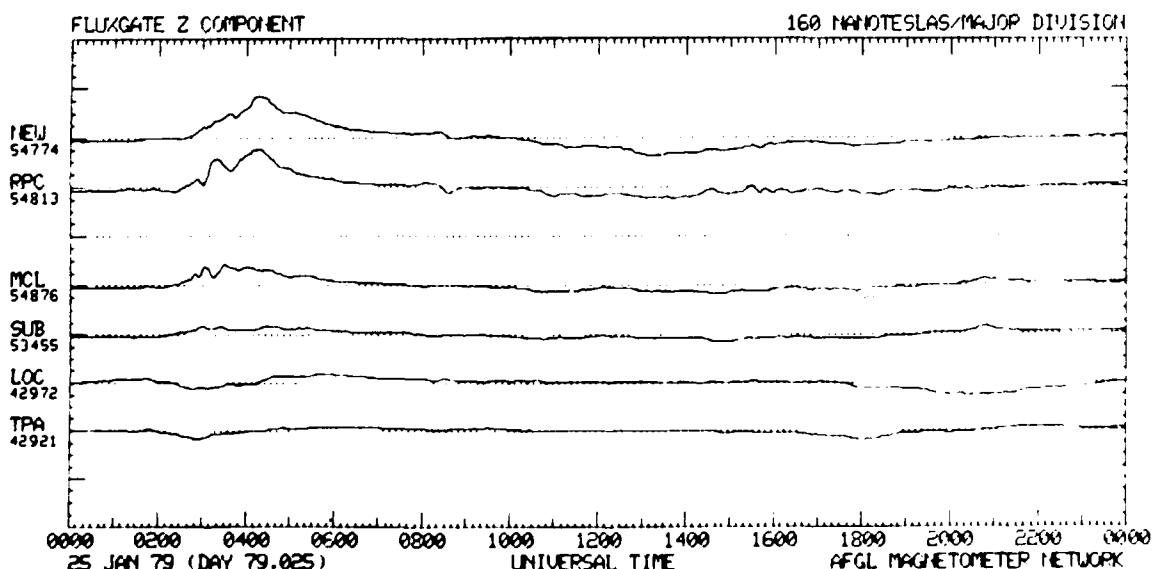
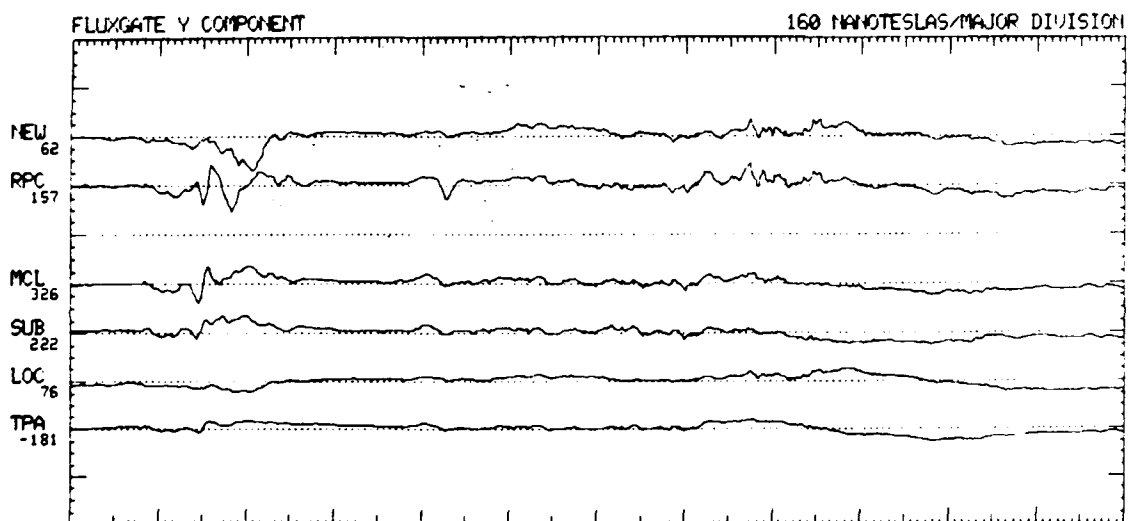
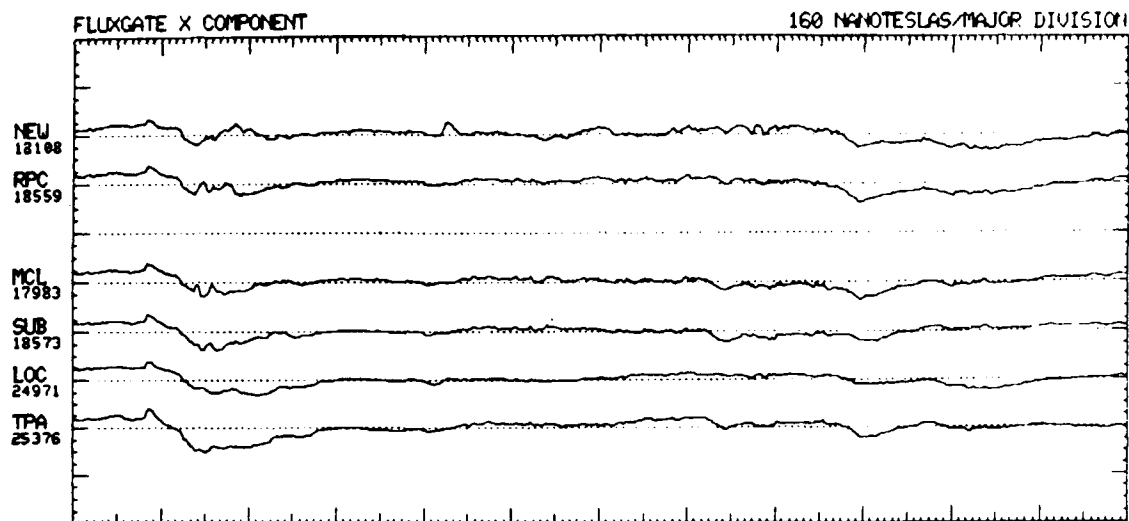
8. SUPPLEMENTARY PLOTS AT REDUCED AMPLITUDE

This section presents a stacked-magnetogram plot for each of the following days of 1979, using an amplitude scale of 160 or 400 nT per major division:

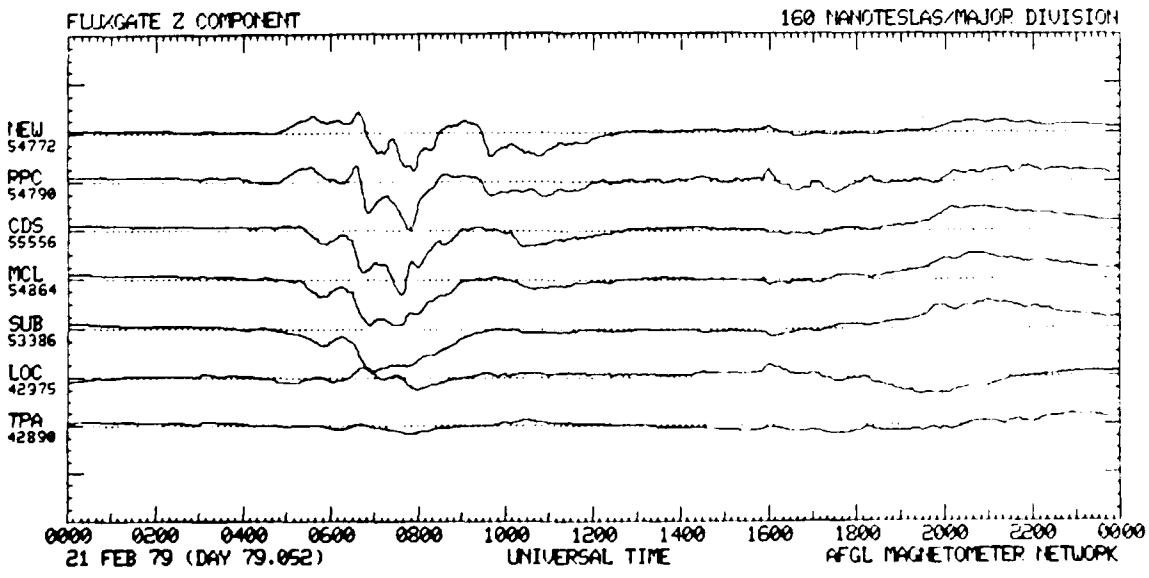
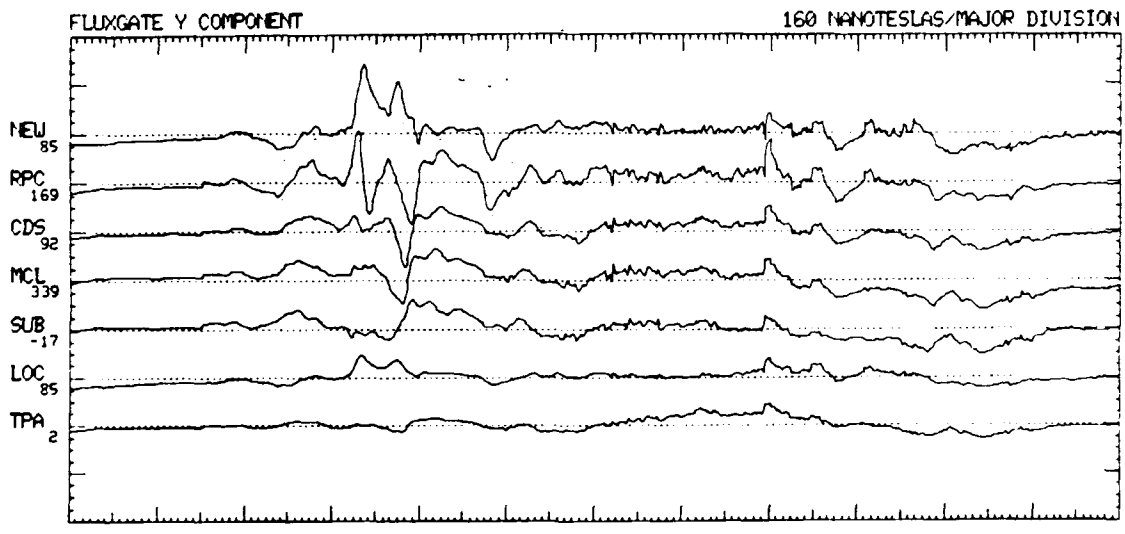
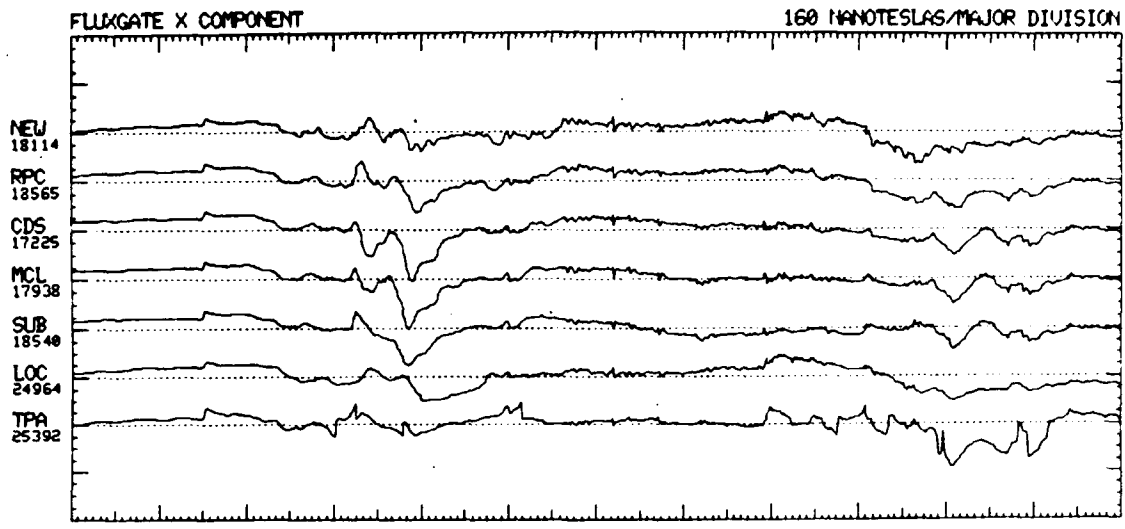
January	05, 24, 25
February	21, 22, 27
March	06, 10, 11, 22, 28, 29, 30
April	01, 02, 03, 04, 05, 22, 23, 25, 28
May	01, 22, 29
June	none
July	26, 27
August	12, 13, 19, 20, 21, 29
September	18, 21
October	08
November	13
December	29

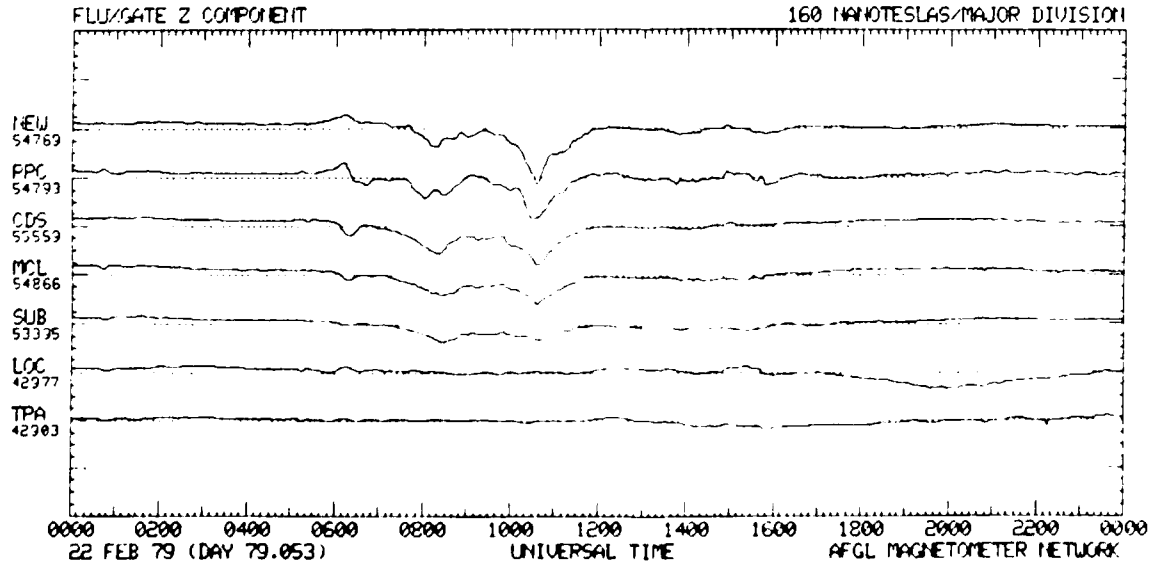
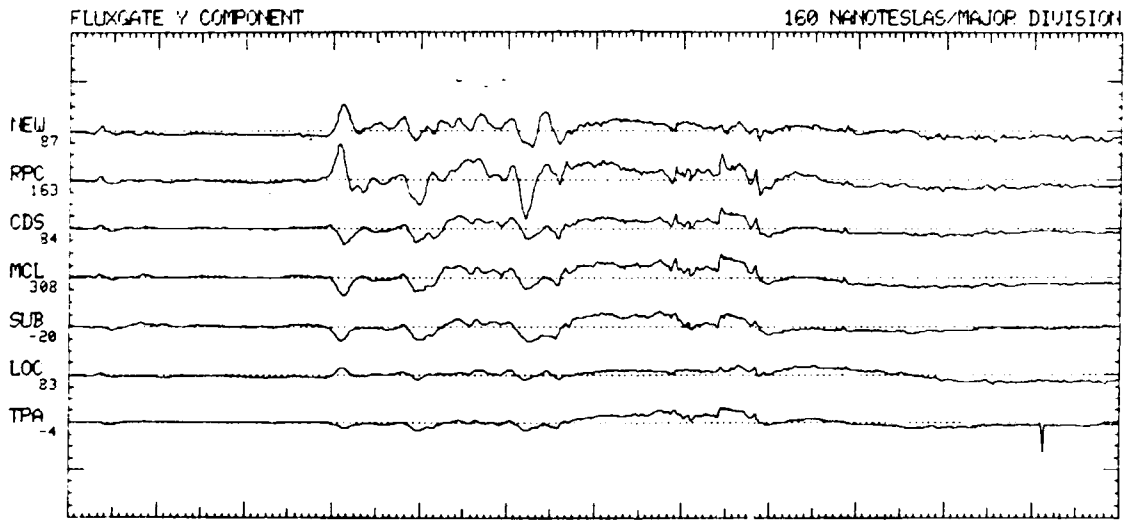
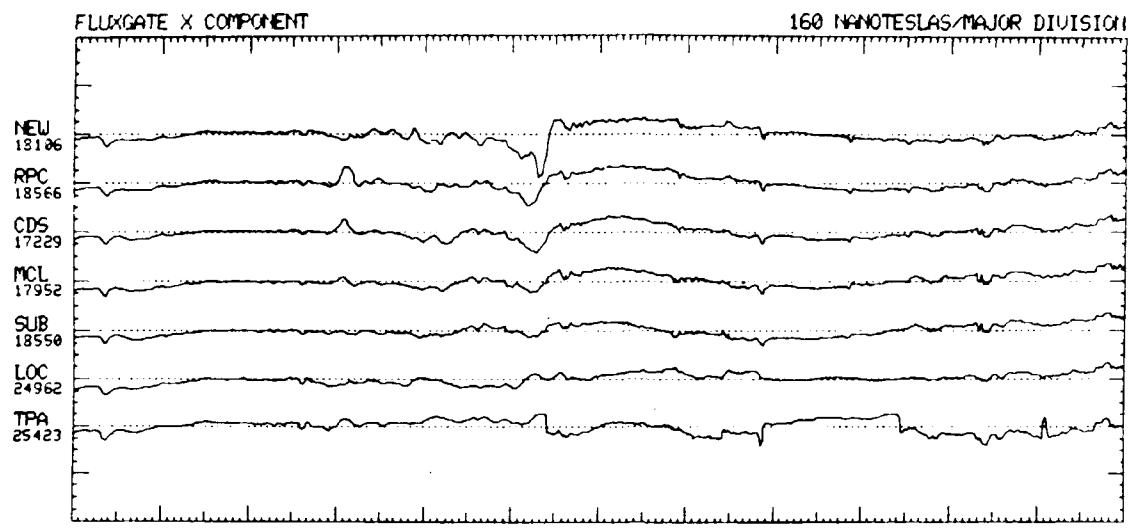






0000 0200 0400 0500 0800 1000 1200 1400 1600 1800 2000 2200 0000
25 JAN 79 (DAY 79.025) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





AD-A173 658

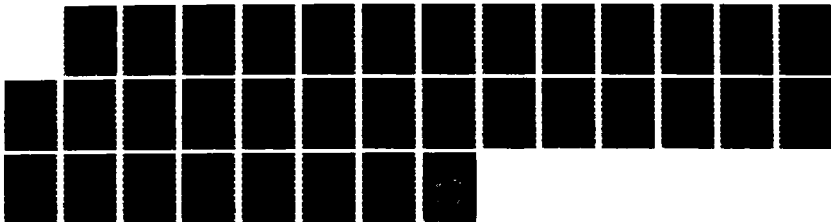
DAILY MAGNETOGRAMS FOR 1979 FROM THE AFGL NETWORK(U)
AIR FORCE GEOPHYSICS LAB HANSCOM AFB MA D J KNECHT
22 FEB 85 AFGL-TR-85-0028

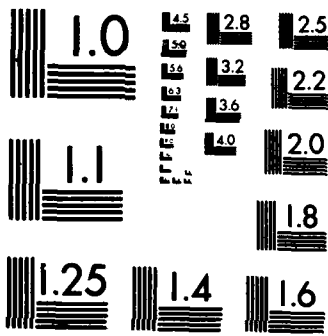
5/5

UNCLASSIFIED

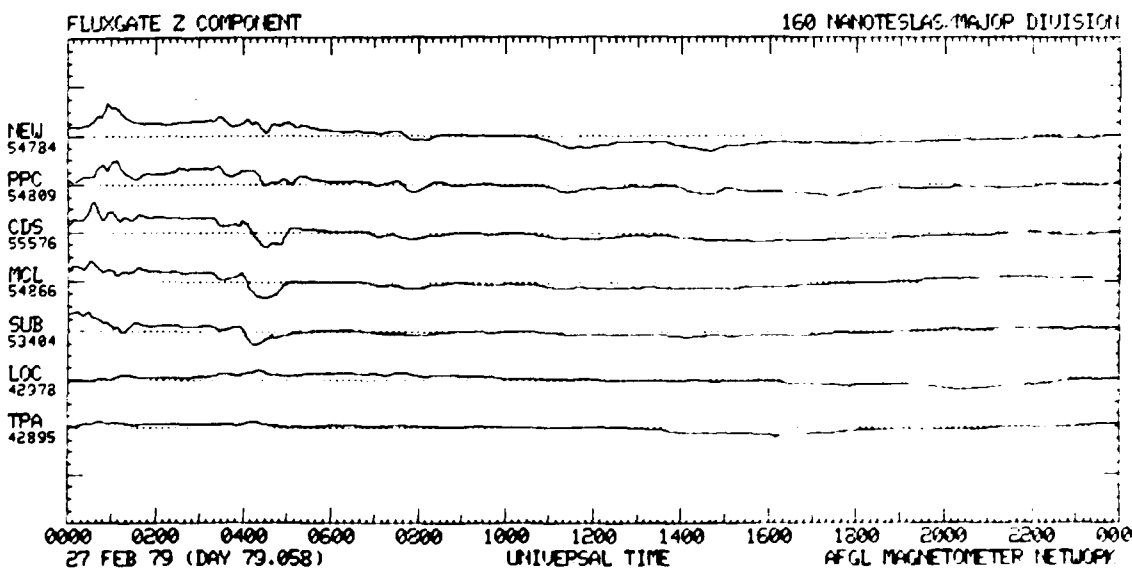
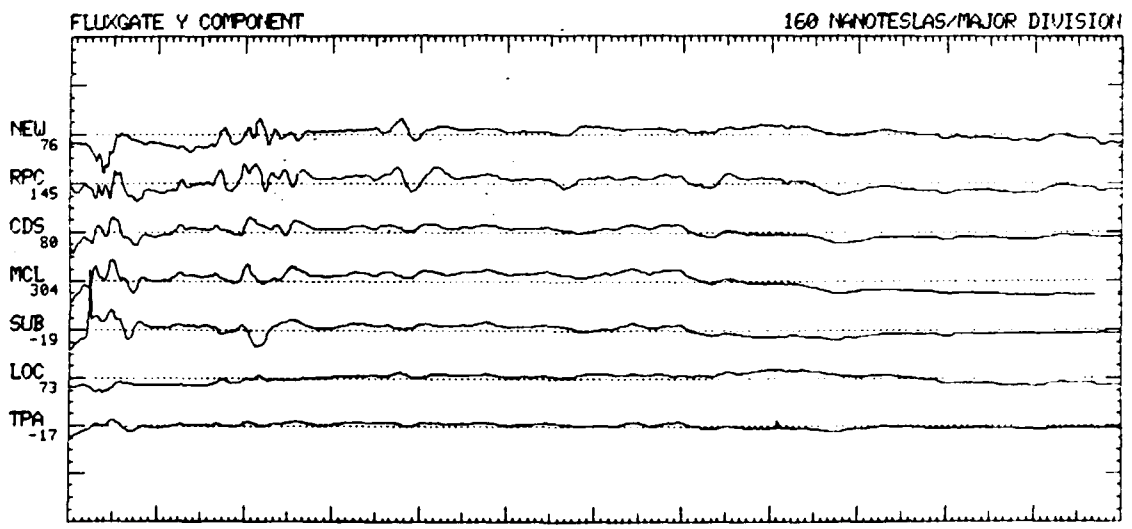
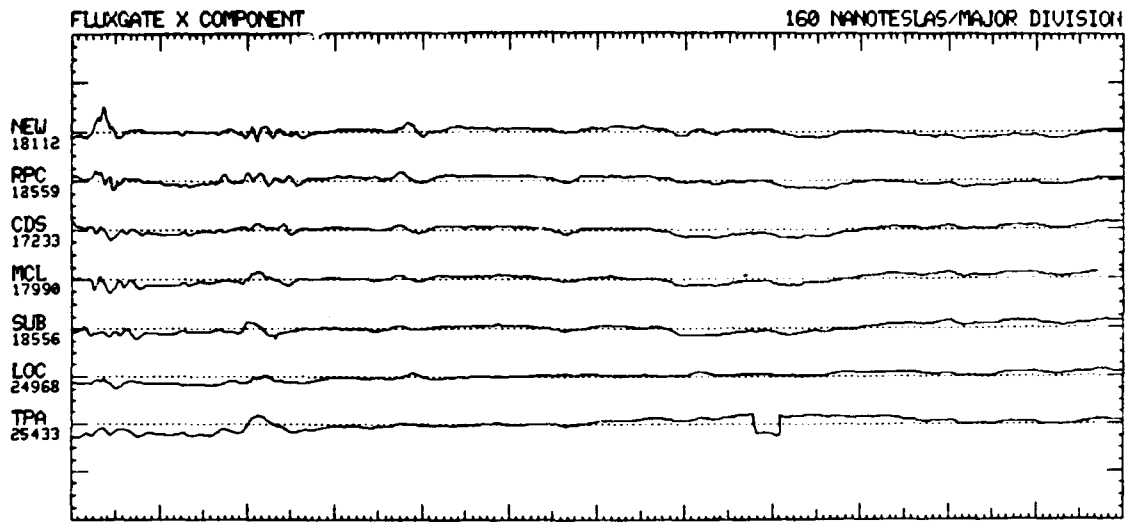
F/G 8/14

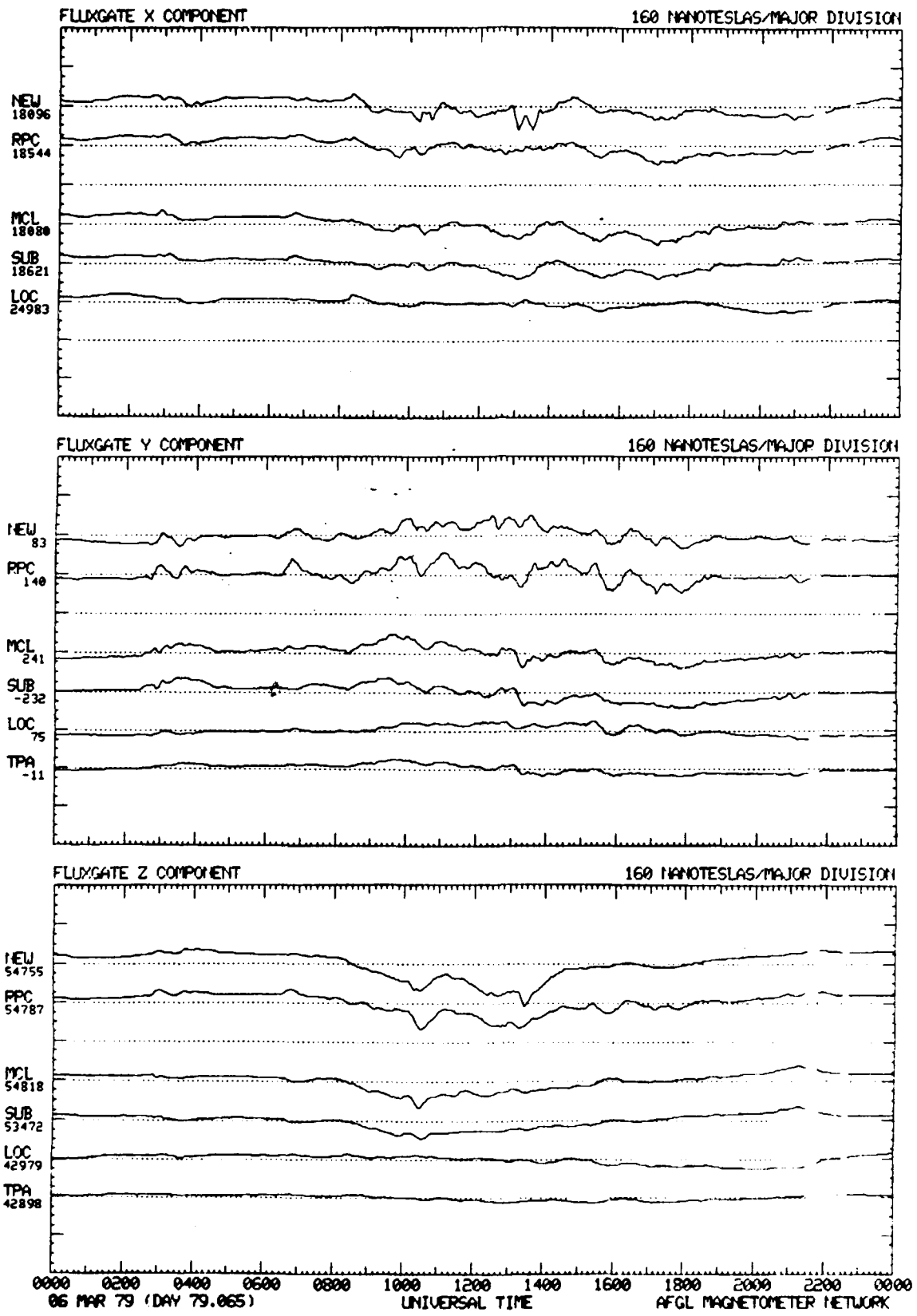
NL





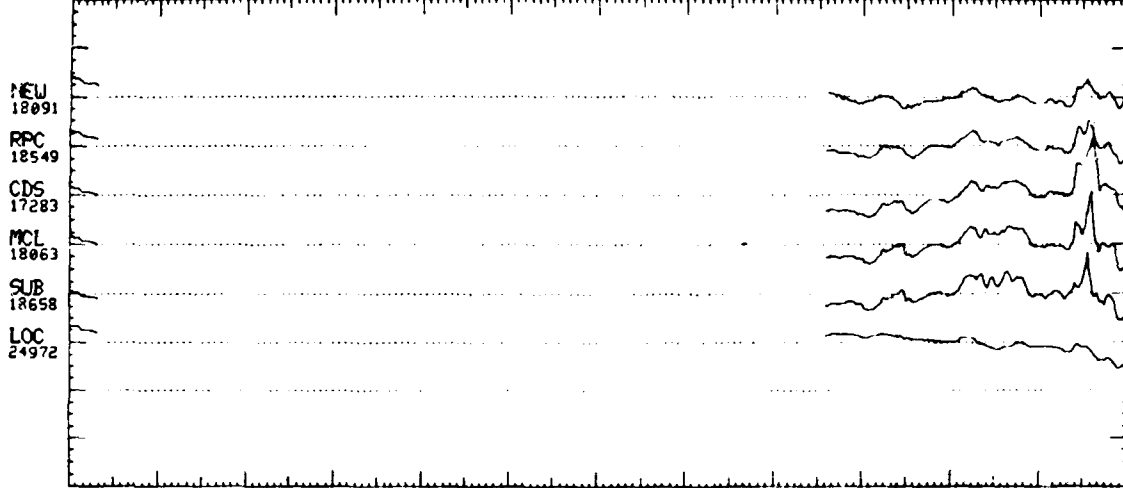
XEROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A





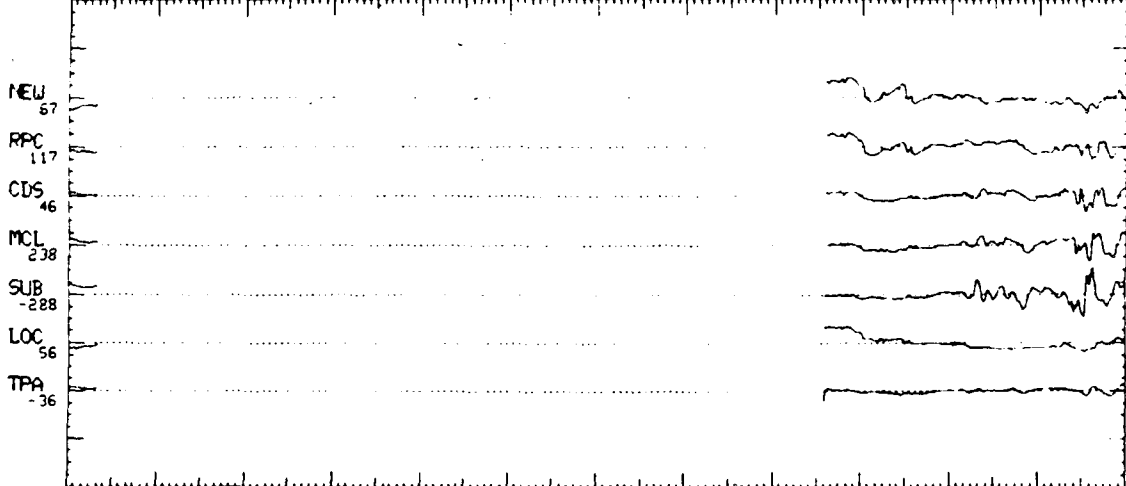
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



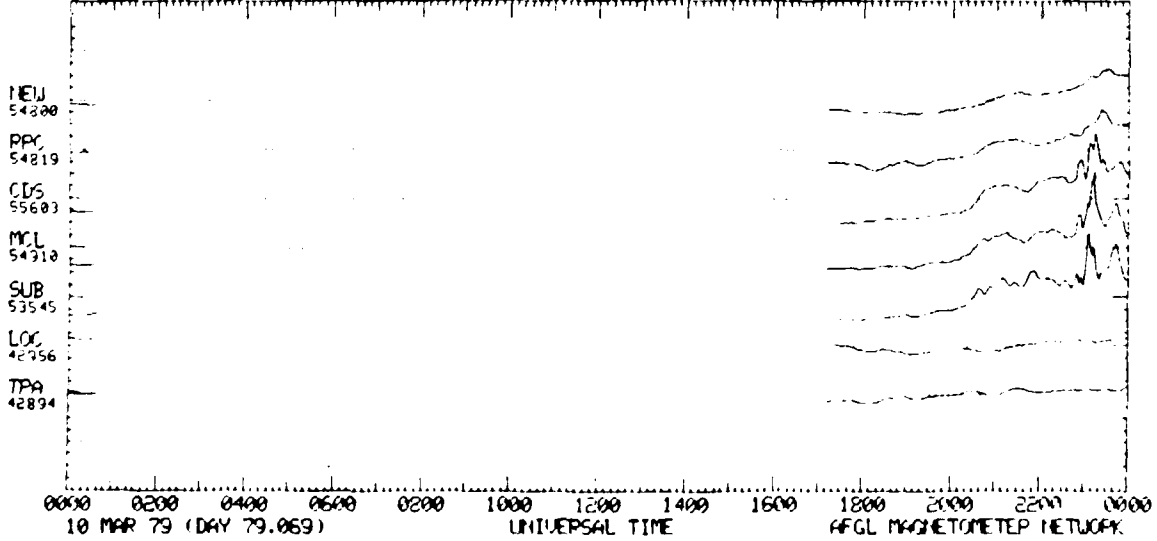
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

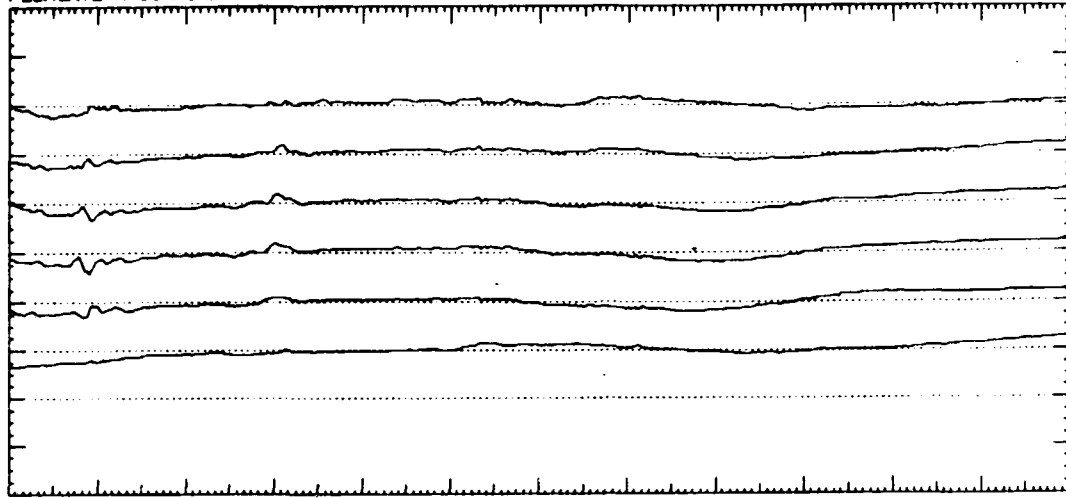
160 NANOTESLAS/MAJOR DIVISION



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

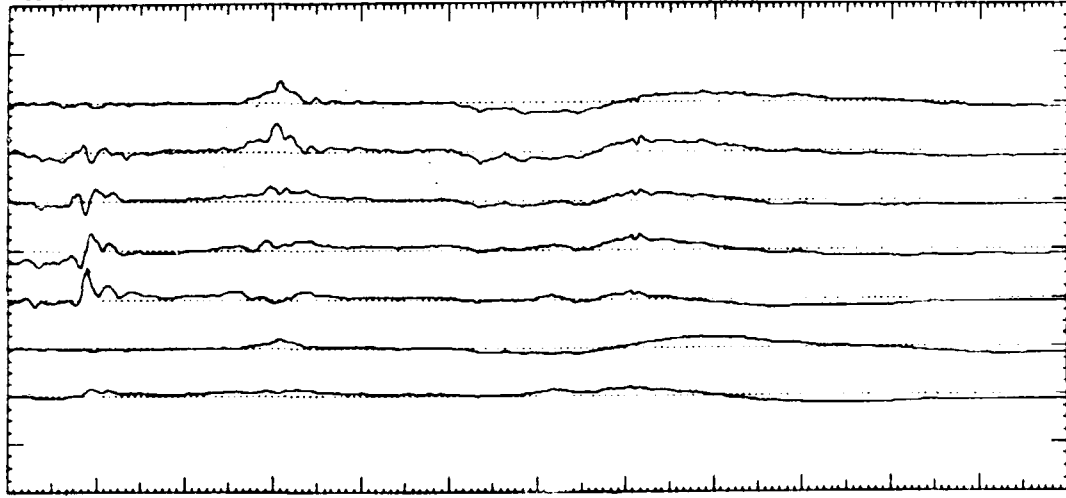
NEU
18090
RPC
18534
CDS
17230
MCL
18064
SUB
18599
LOC
24950



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

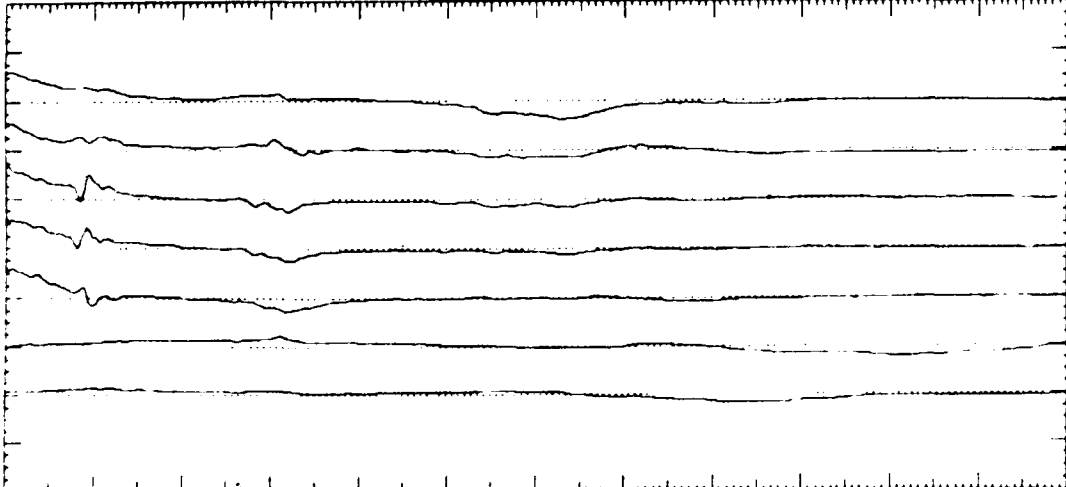
NEU
77
RPC
137
CDS
66
MCL
298
SUB
-267
LOC
74
TPA
-18



FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54791
RPC
5481
CDS
55556
MCL
54853
SUB
53490
LOC
42984
TPA
42906

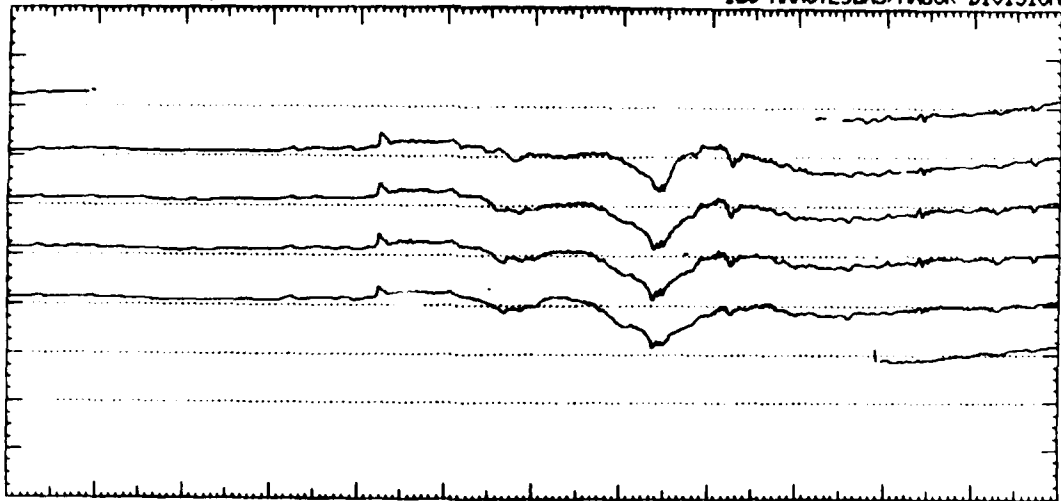


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 MAR 79 (DAY 79.070) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

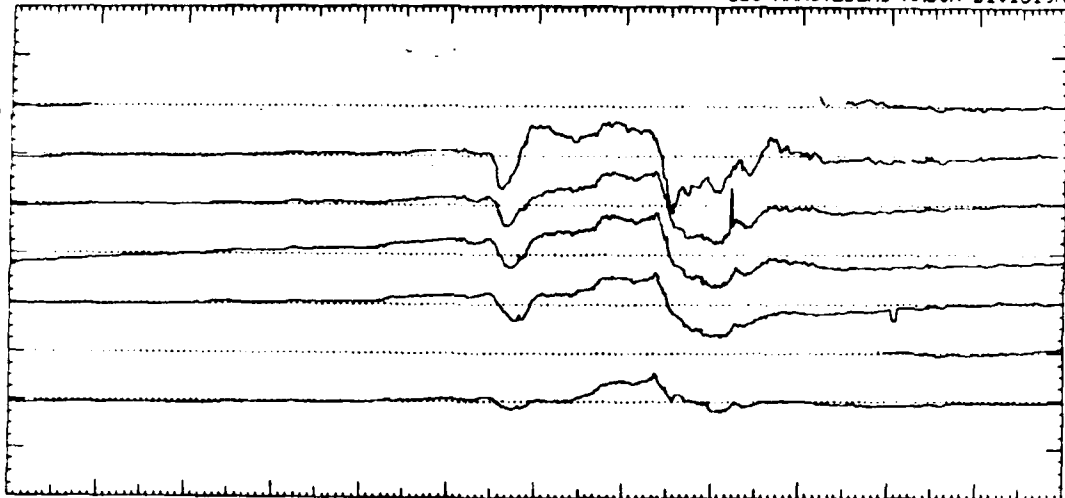
NEW
18101
RPC
18583
CDS
17288
MCL
18033
SUB
18644
LOC
24976



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

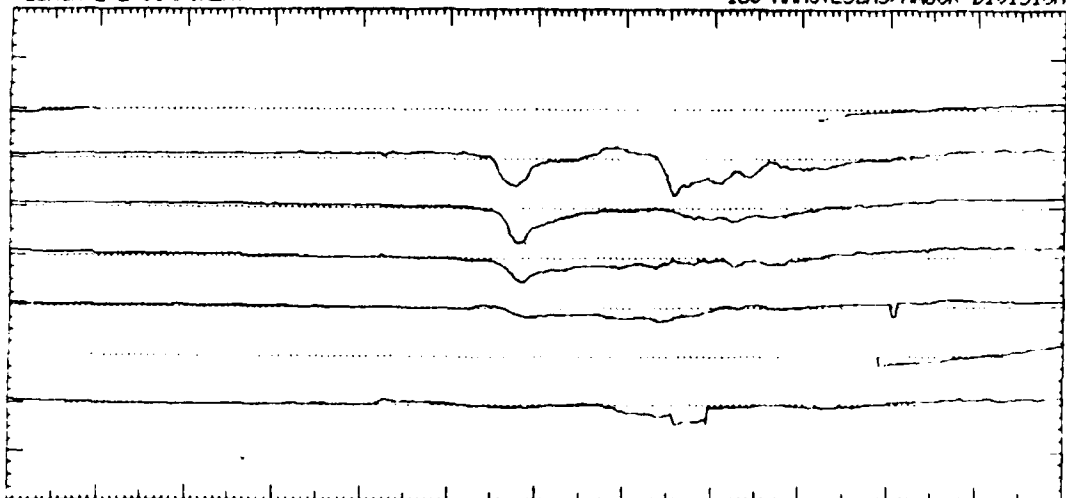
NEW
63
RPC
140
CDS
65
MCL
236
SUB
-10
LOC
44
TPA
-8



FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

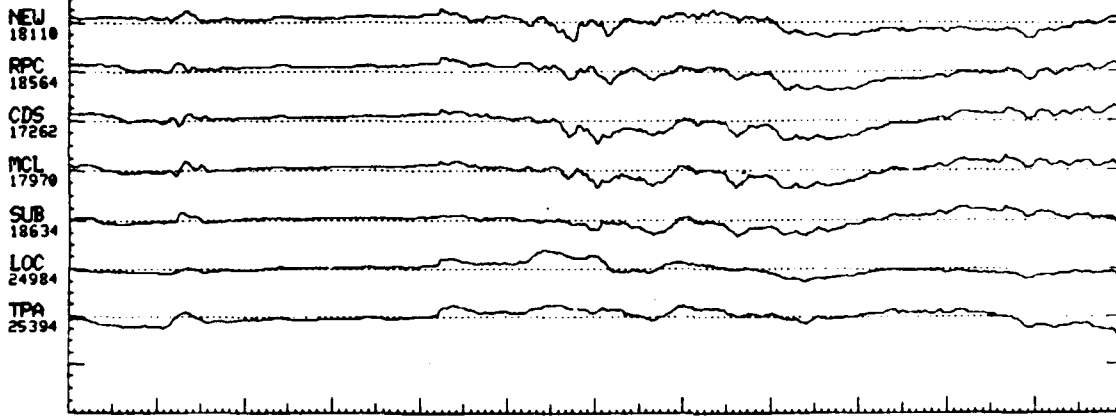
NEW
54773
RPC
54769
CDS
55534
MCL
54846
SUB
53405
LOC
42949
TPA
42887



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 MAR 79 (DAY 79.081) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

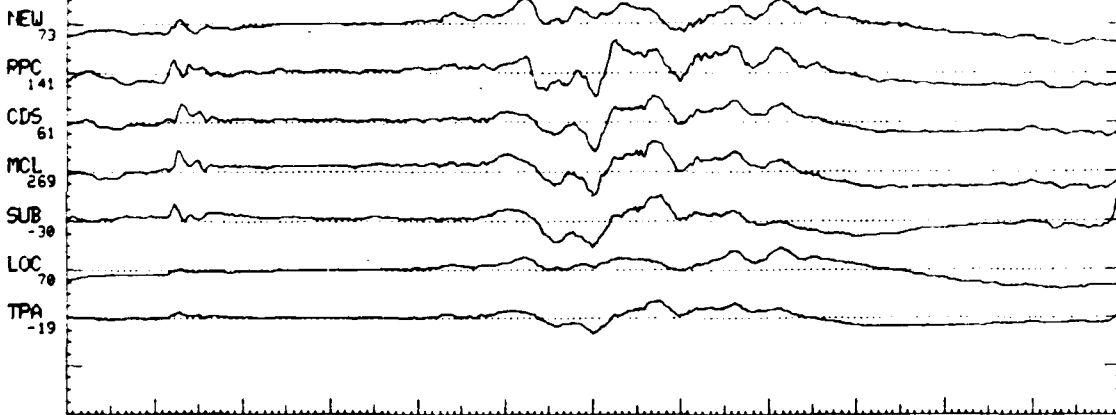
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



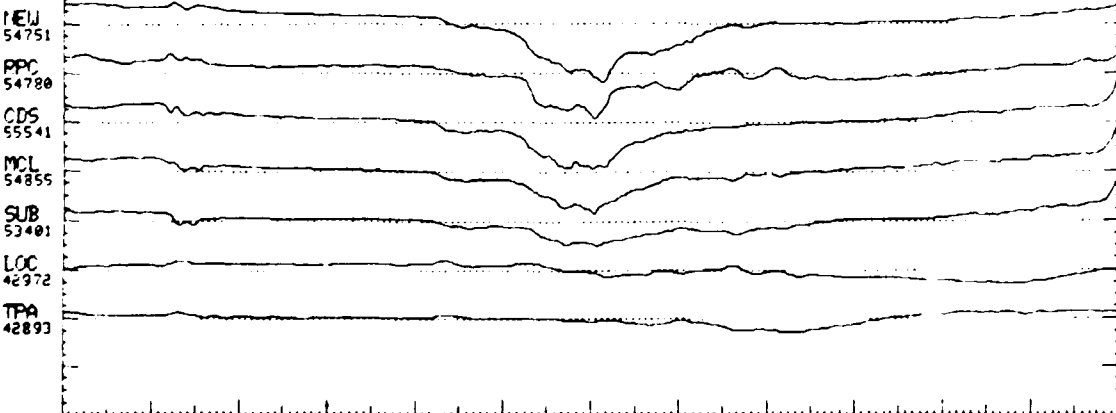
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

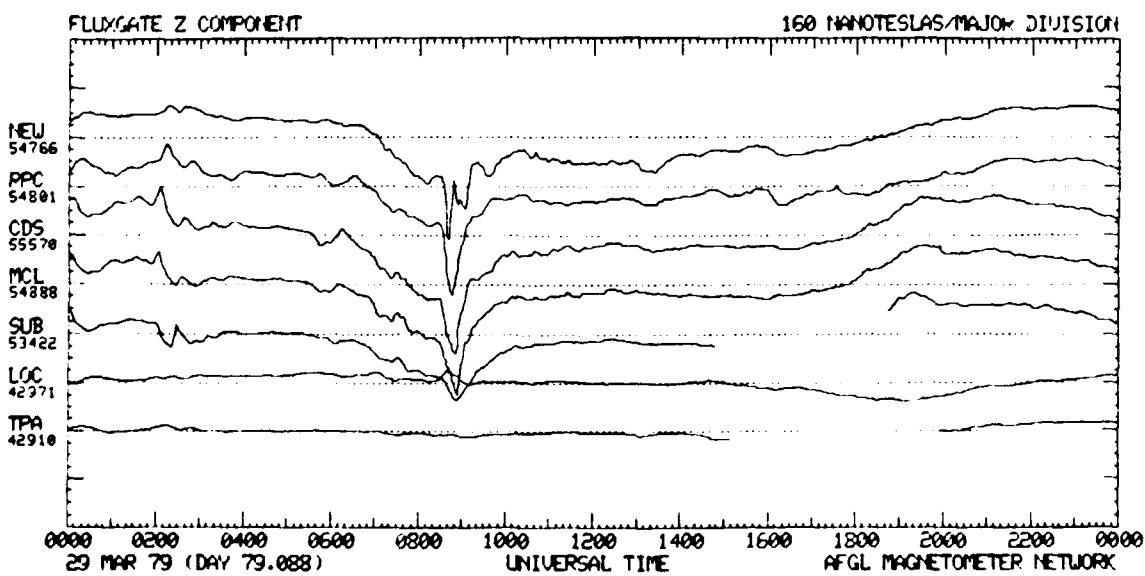
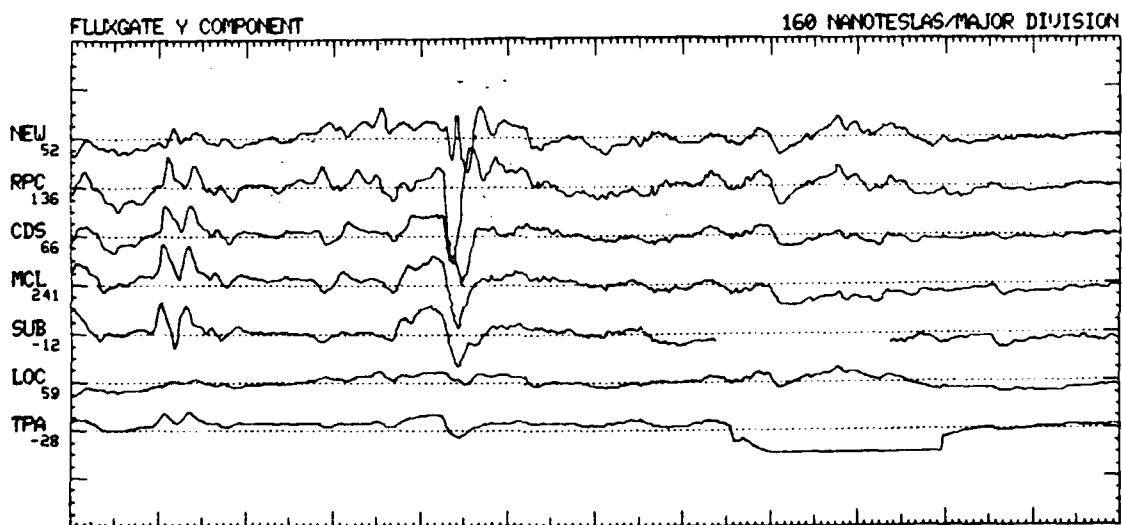
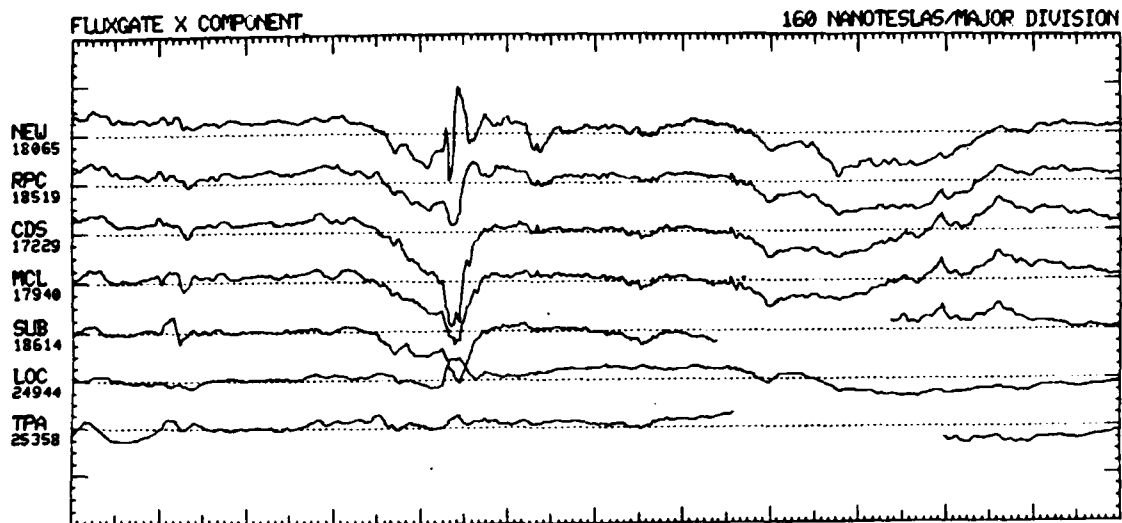


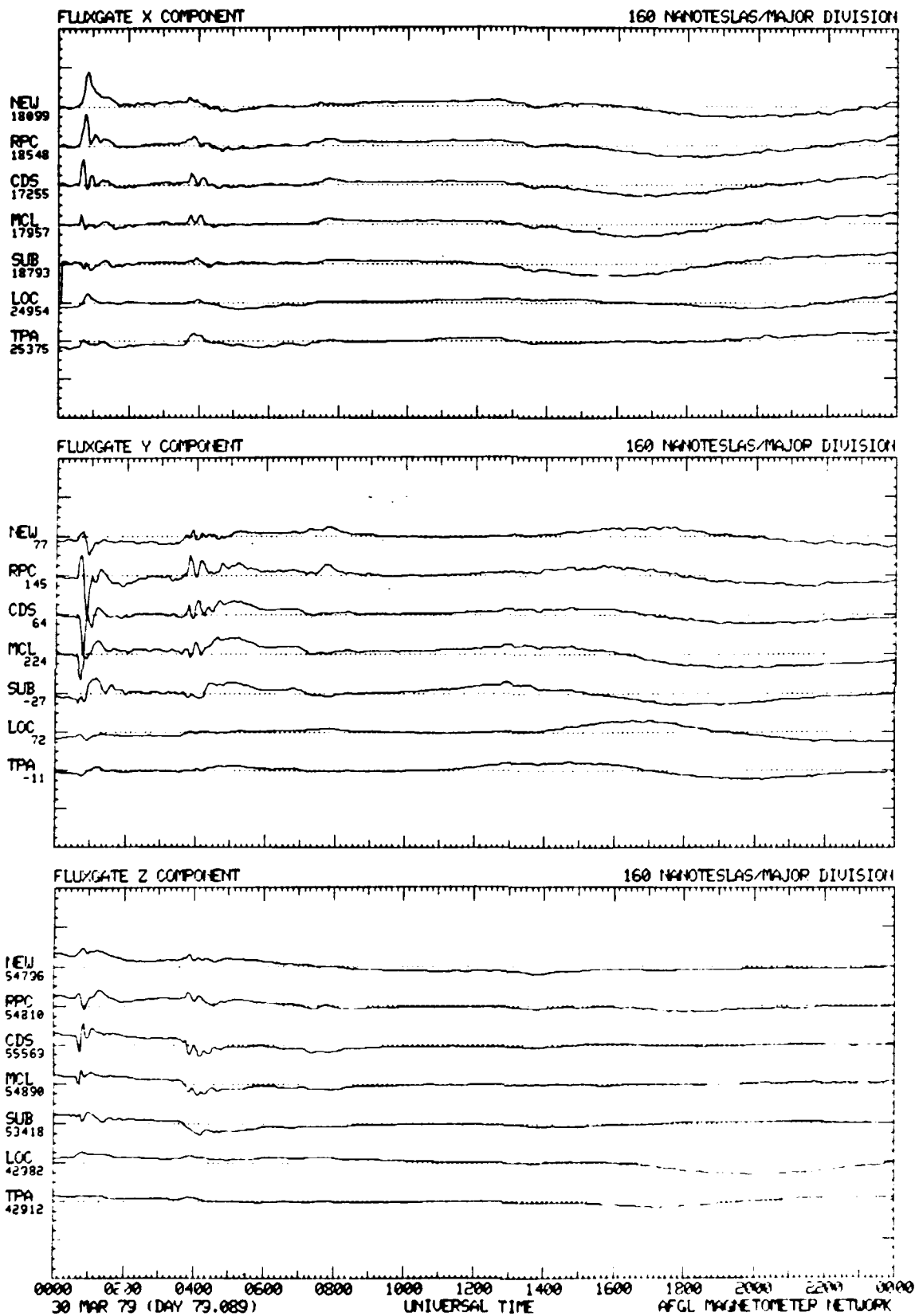
FLUXGATE Z COMPONENT

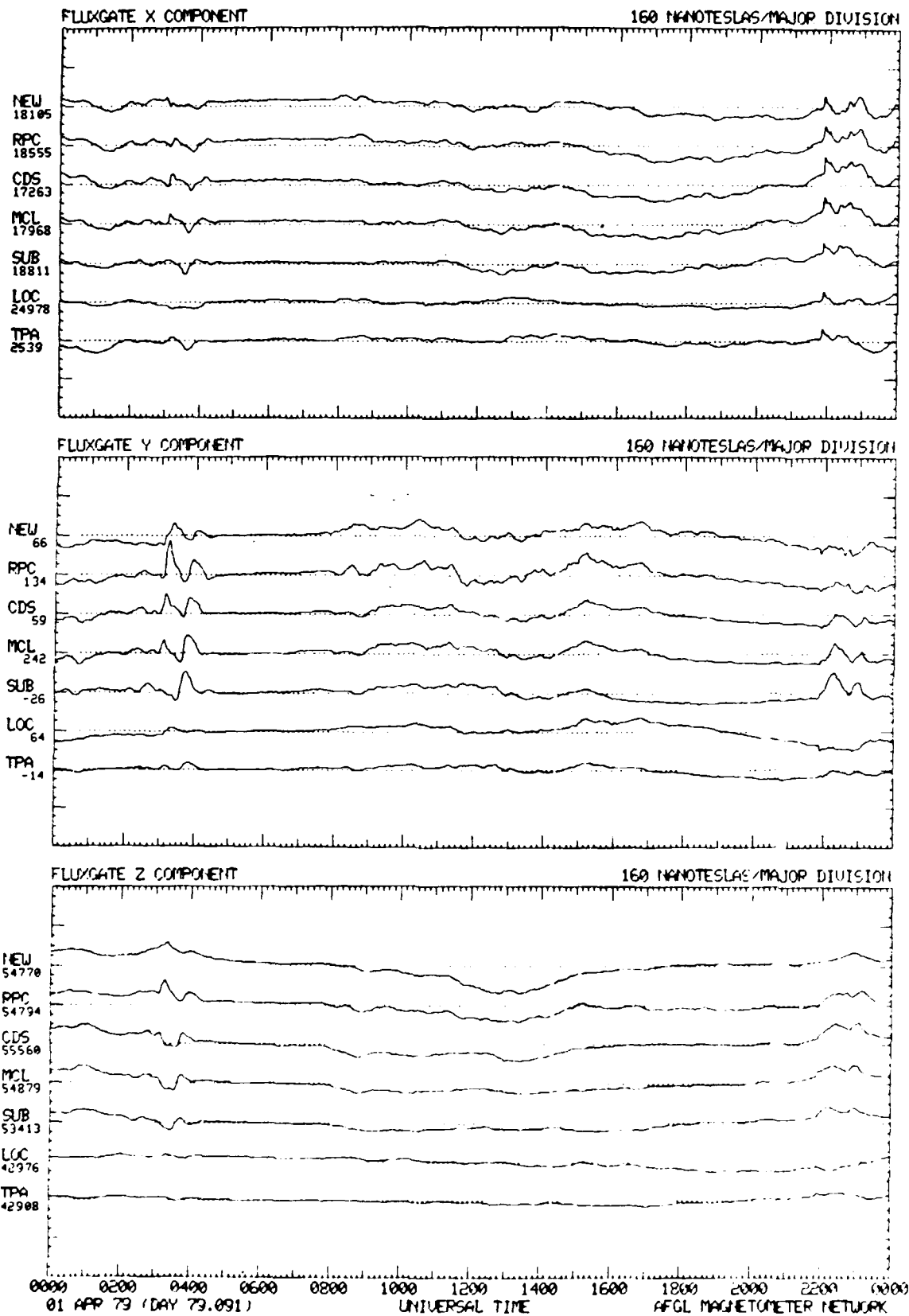
160 NANOTESLAS/MAJOR DIVISION

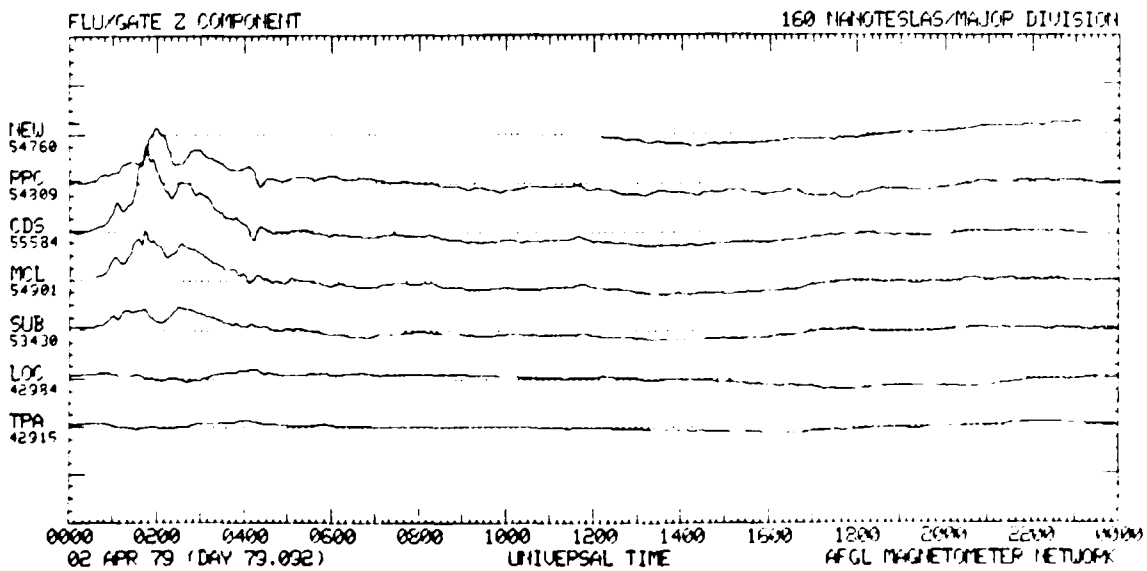
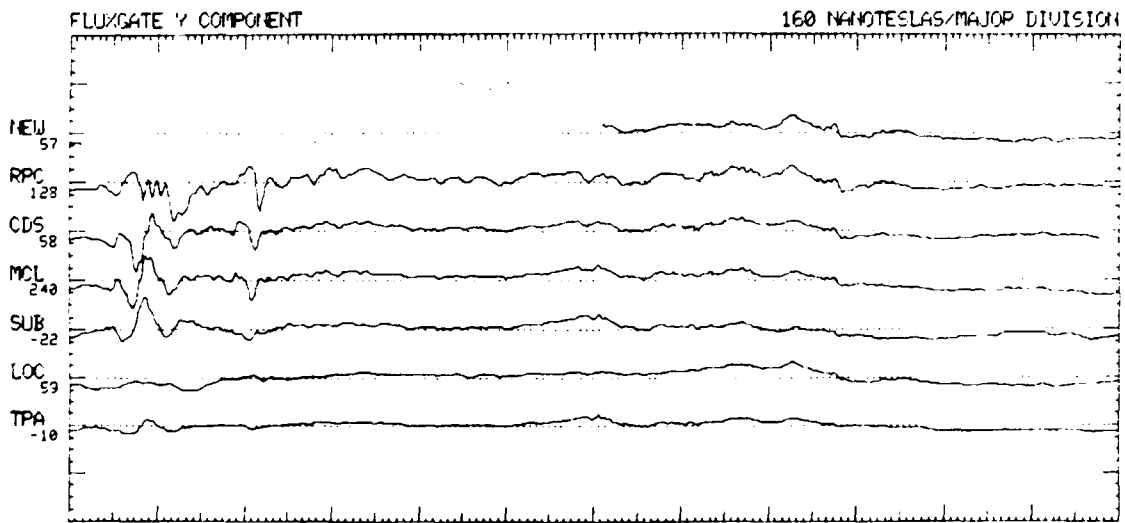
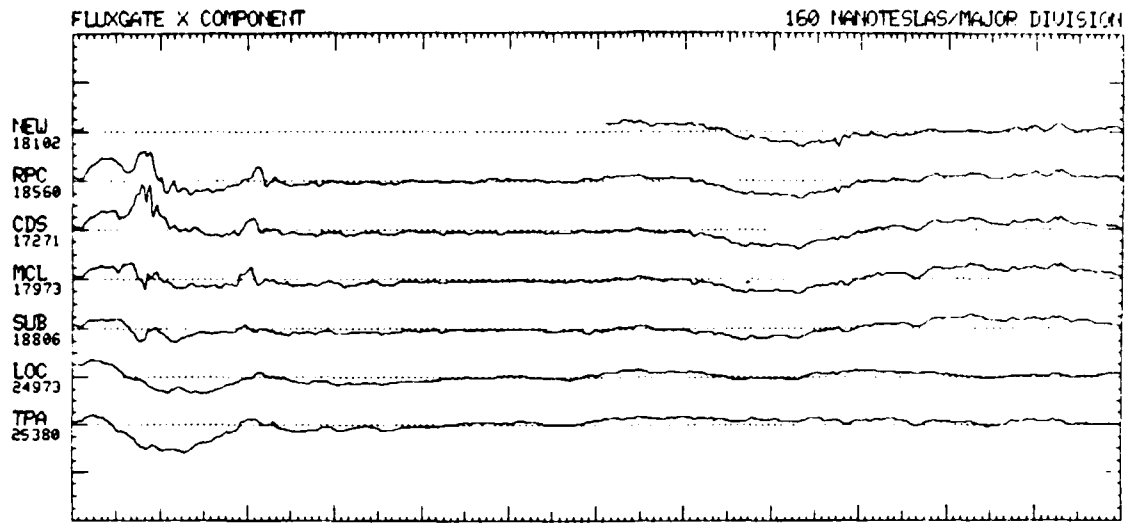


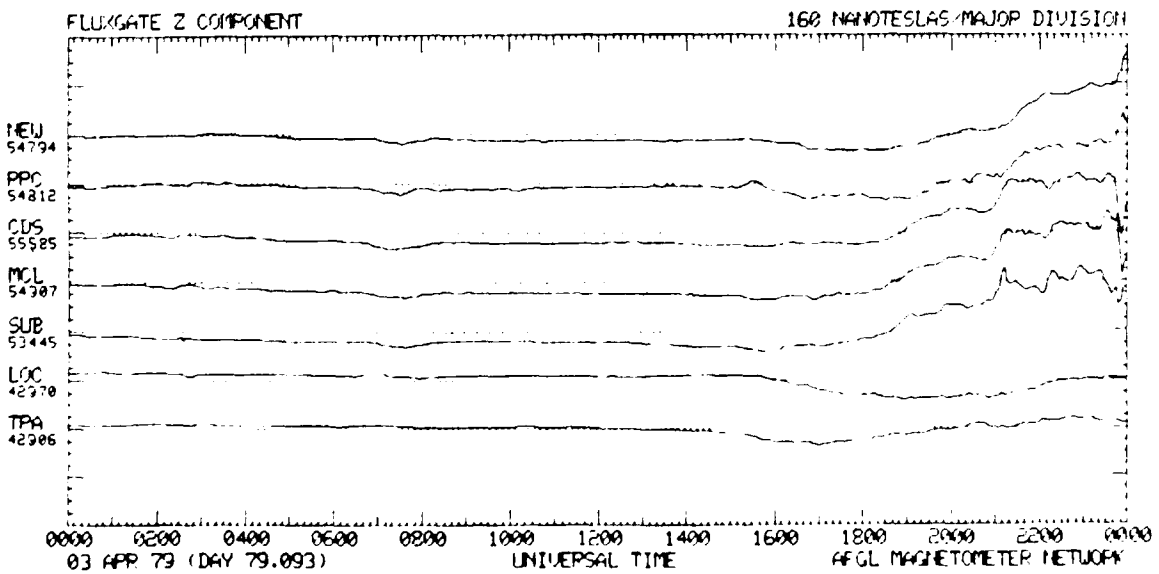
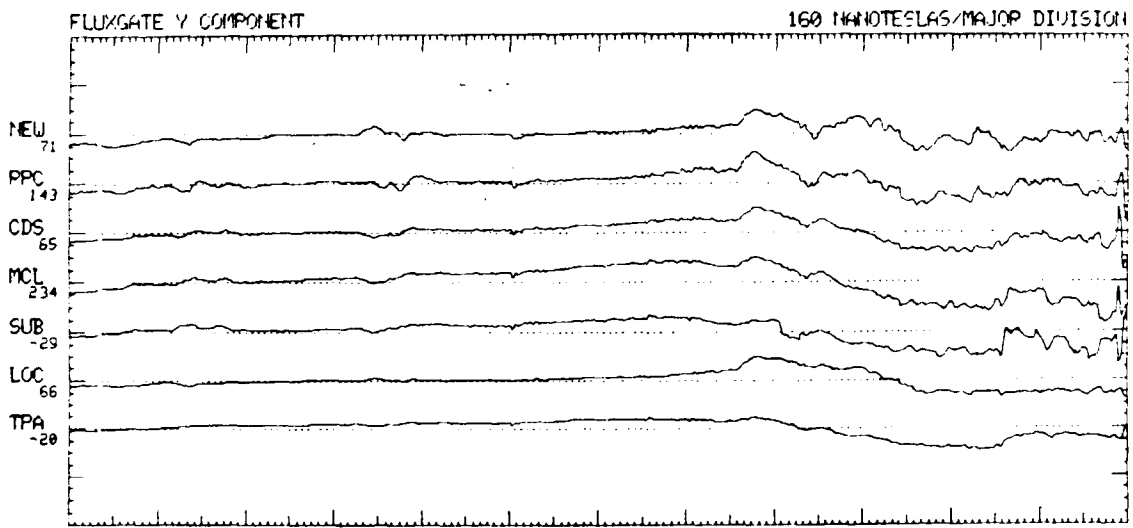
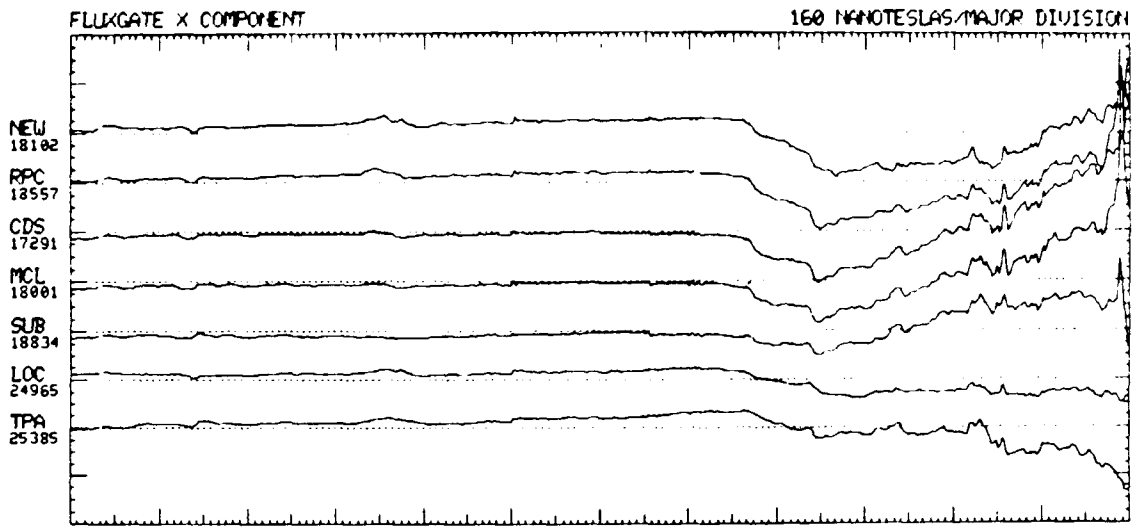
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 MAR 79 (DAY 79.087) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

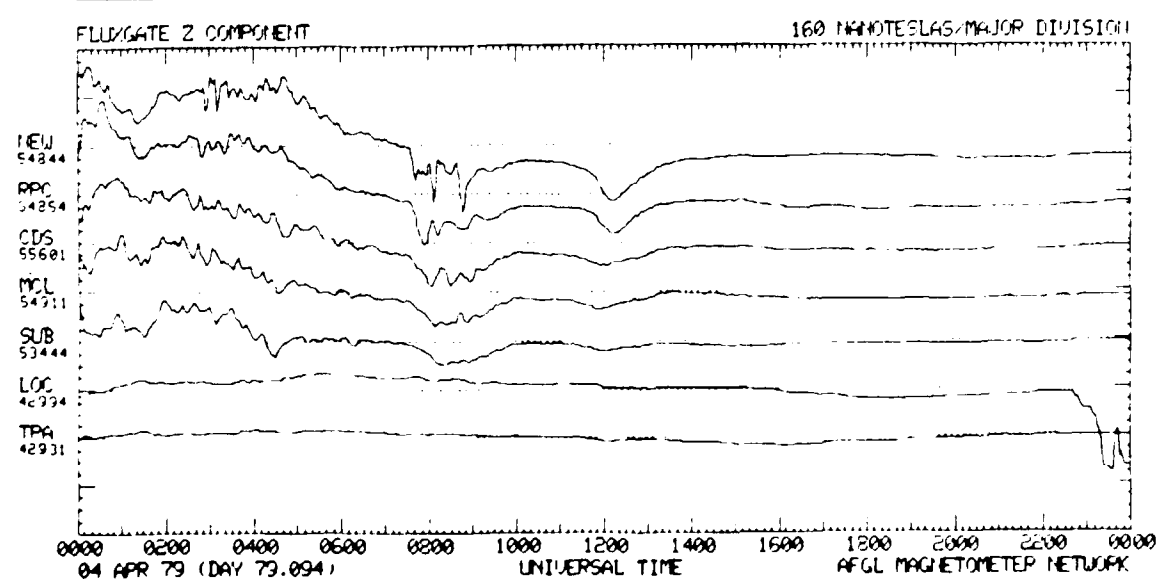
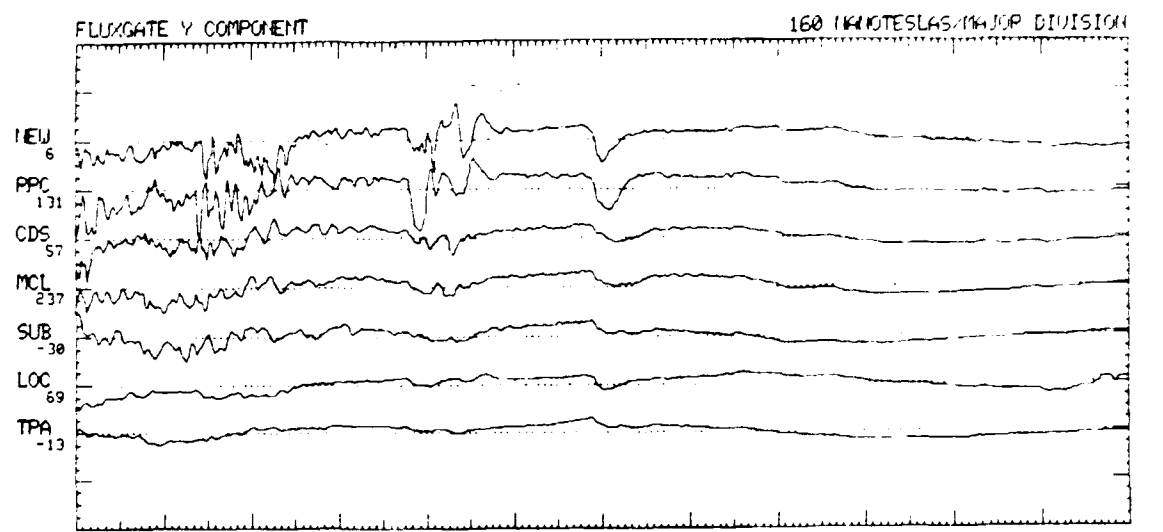
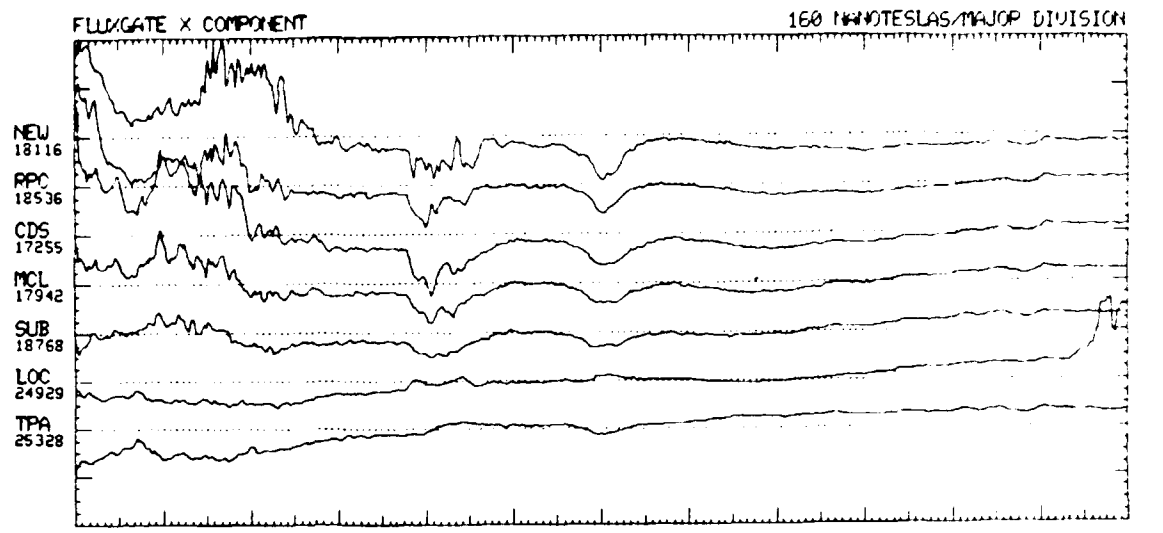


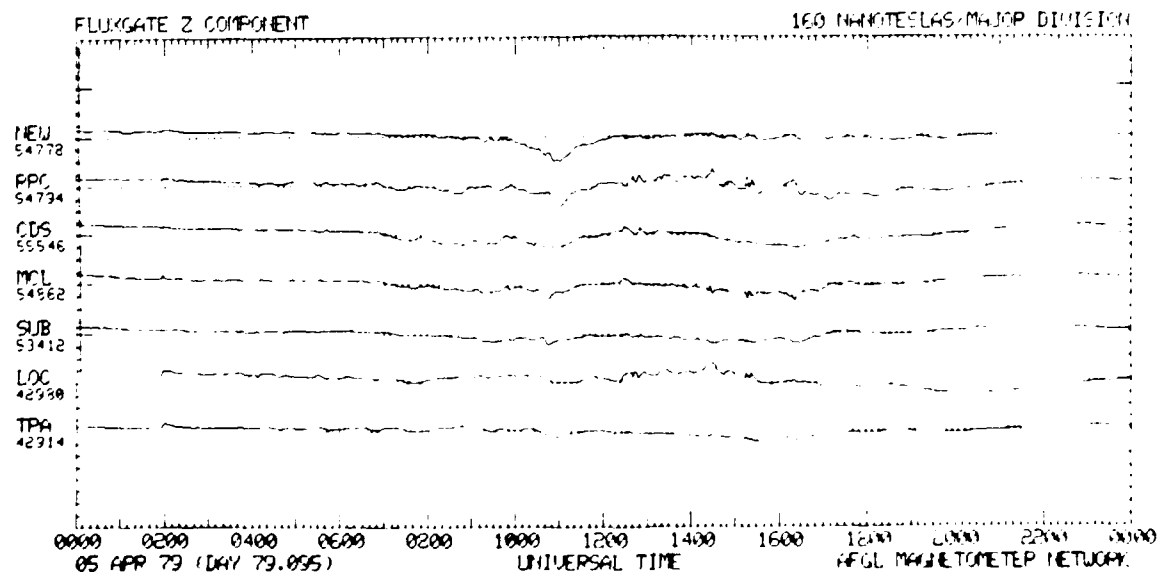
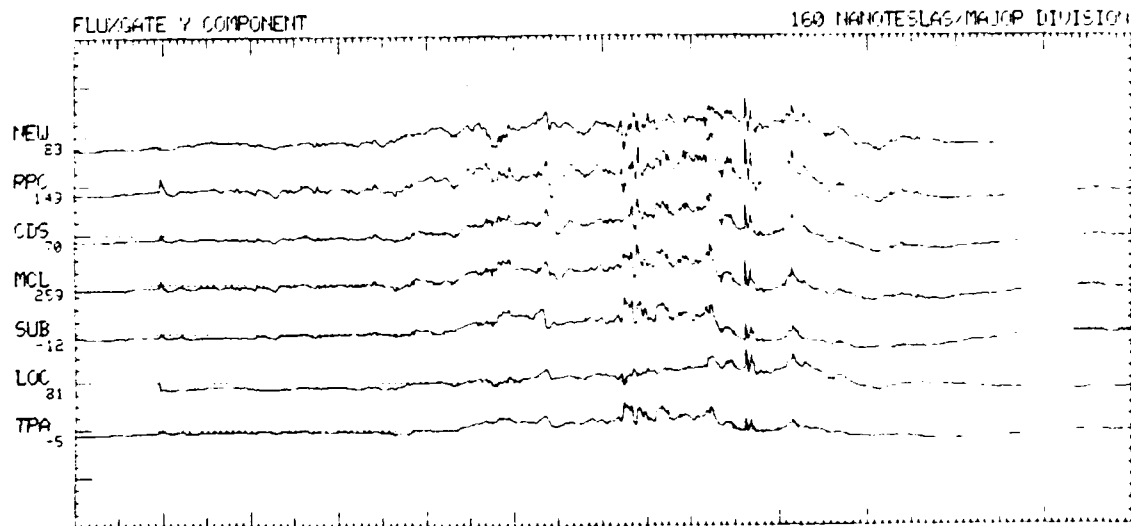
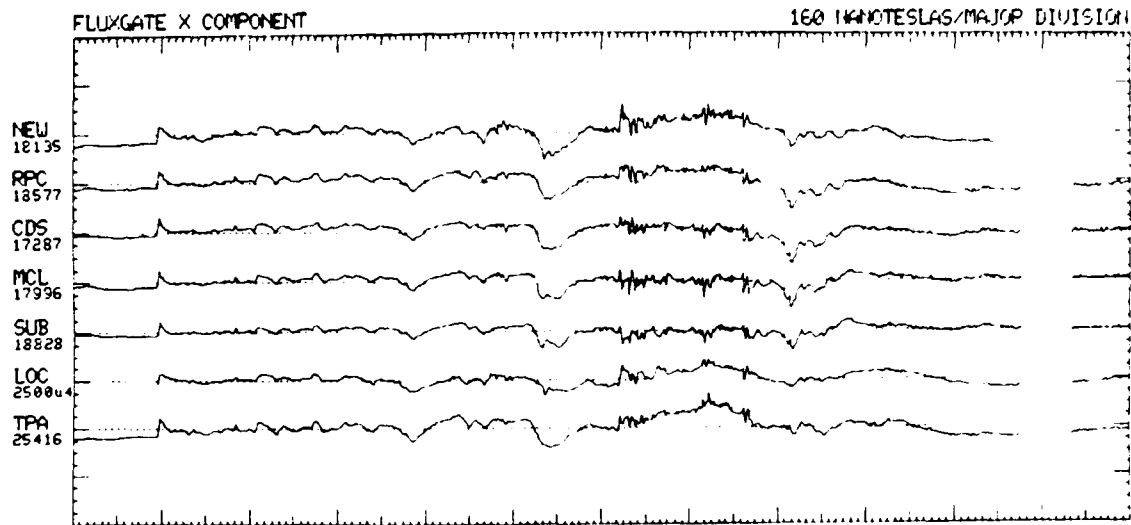






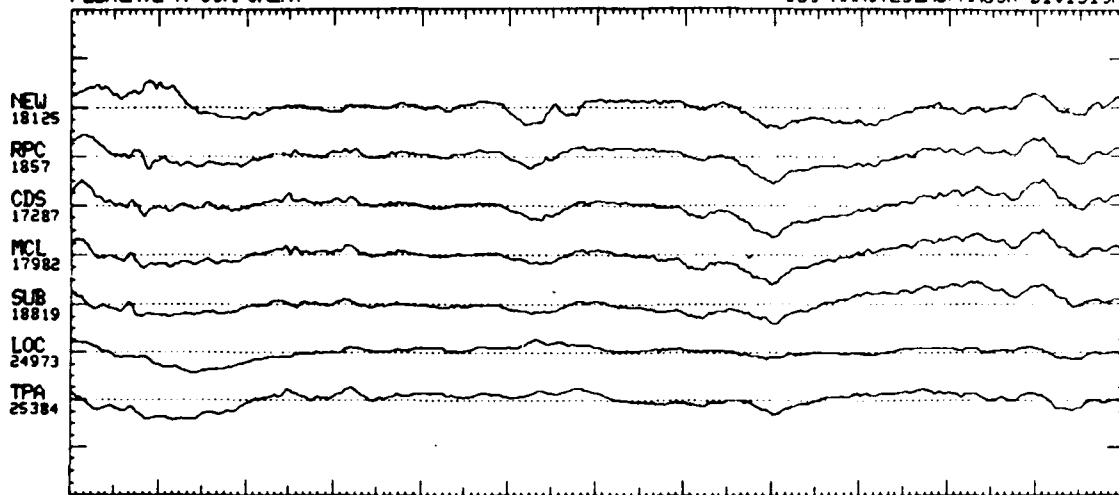






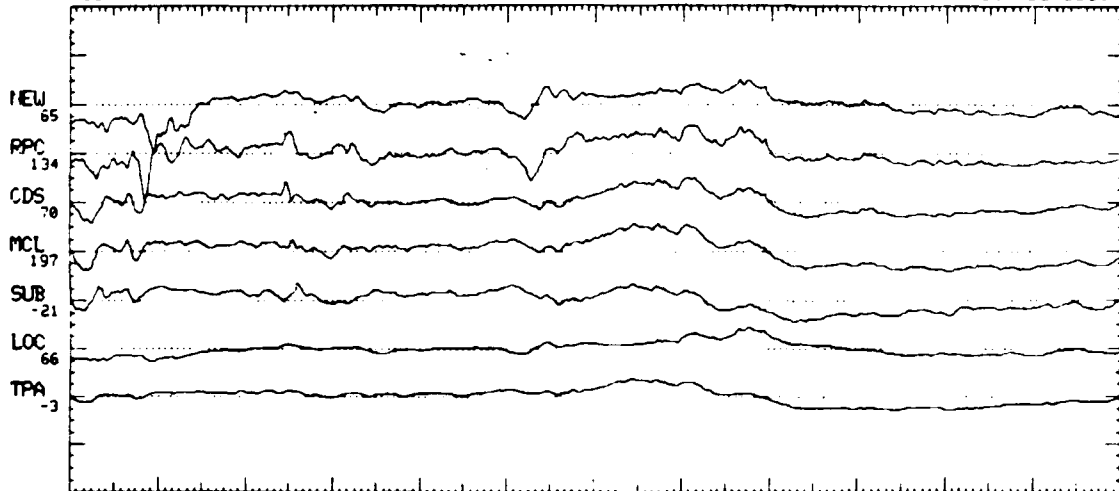
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



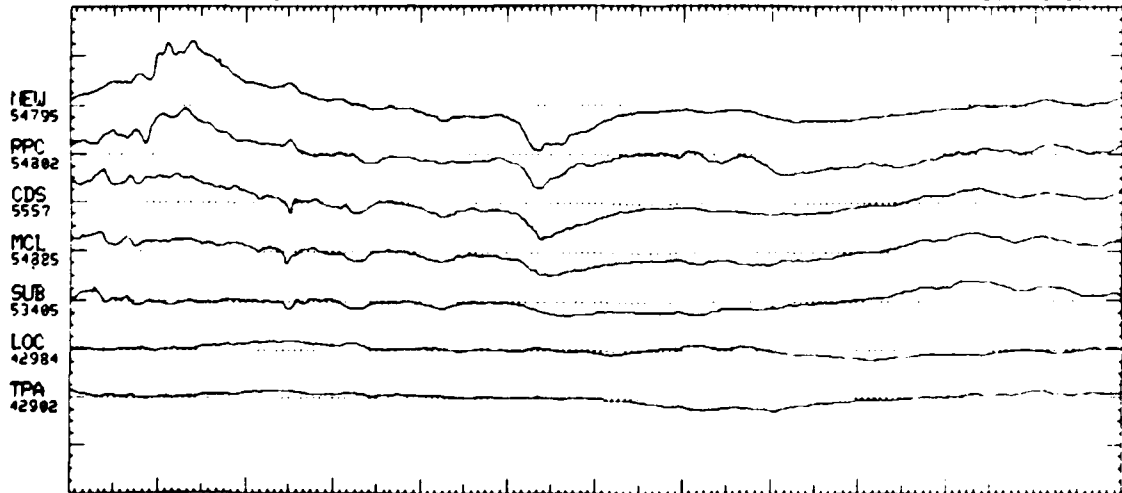
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

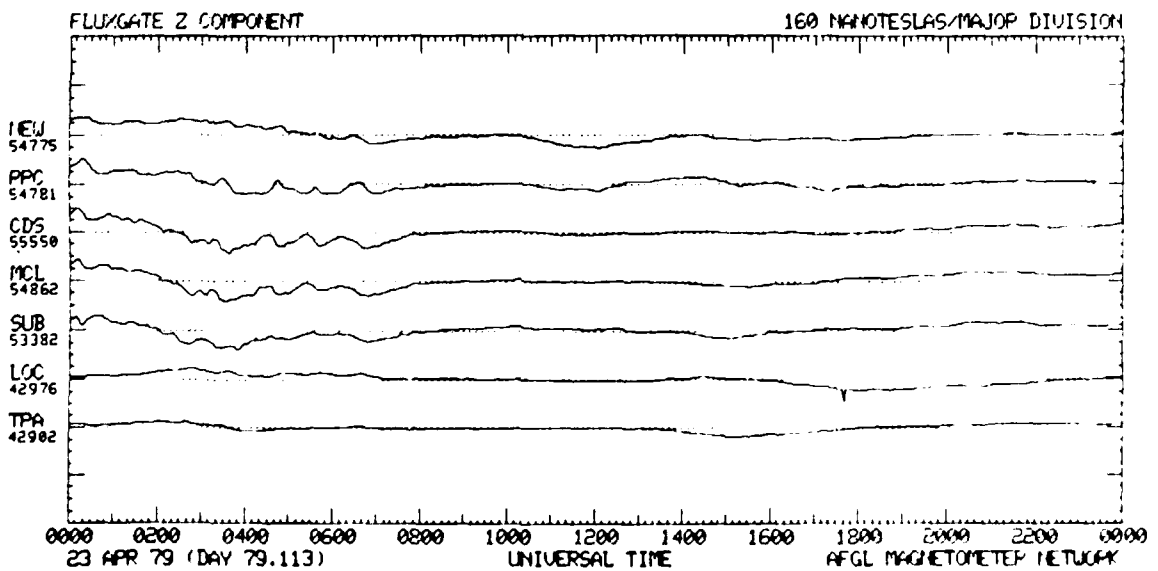
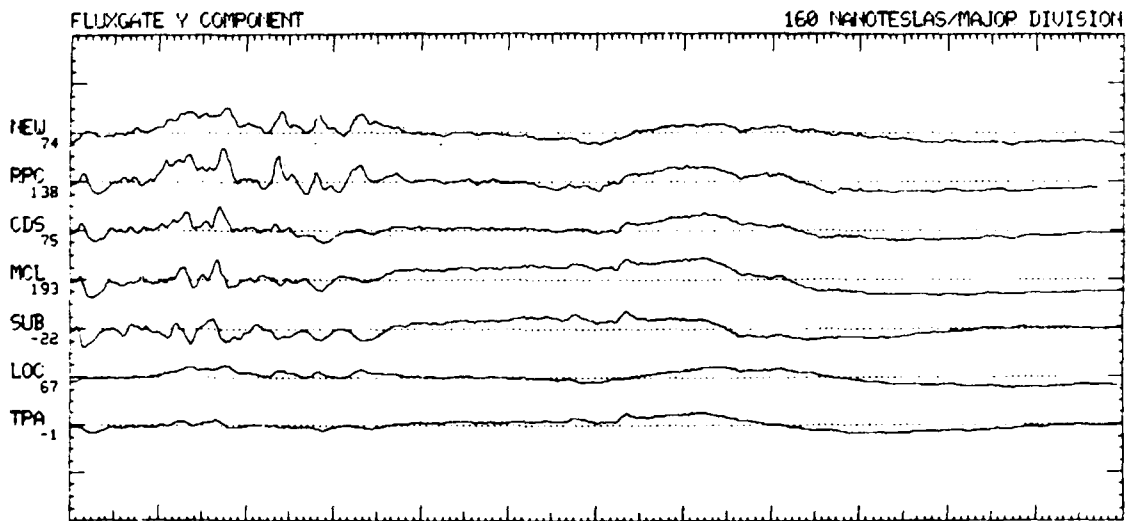
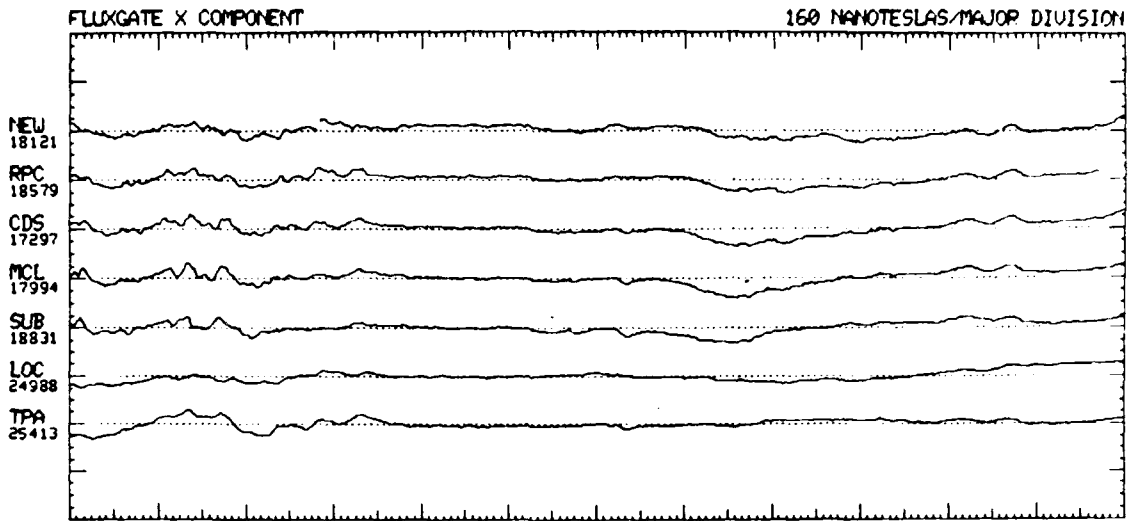


FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

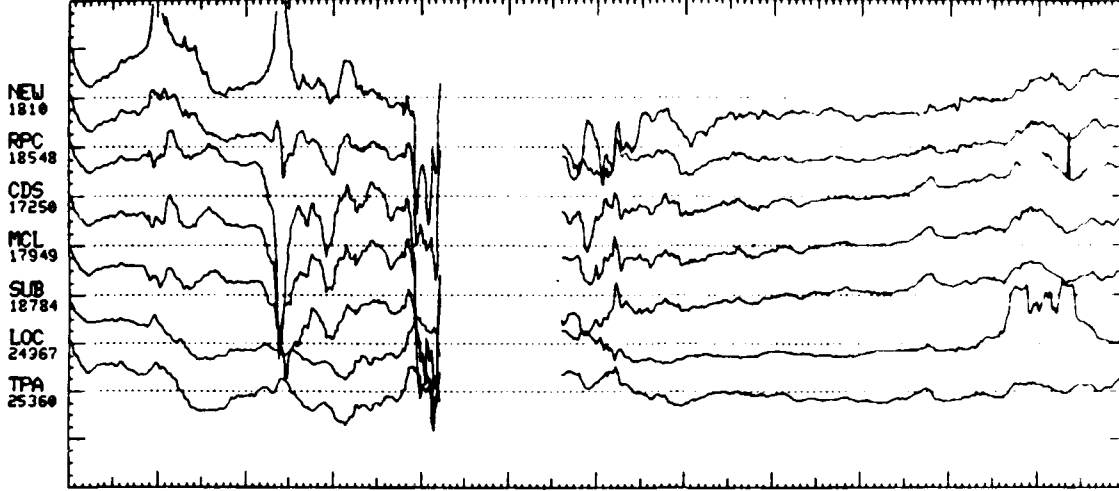


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 APR 79 (DAY 79.112) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



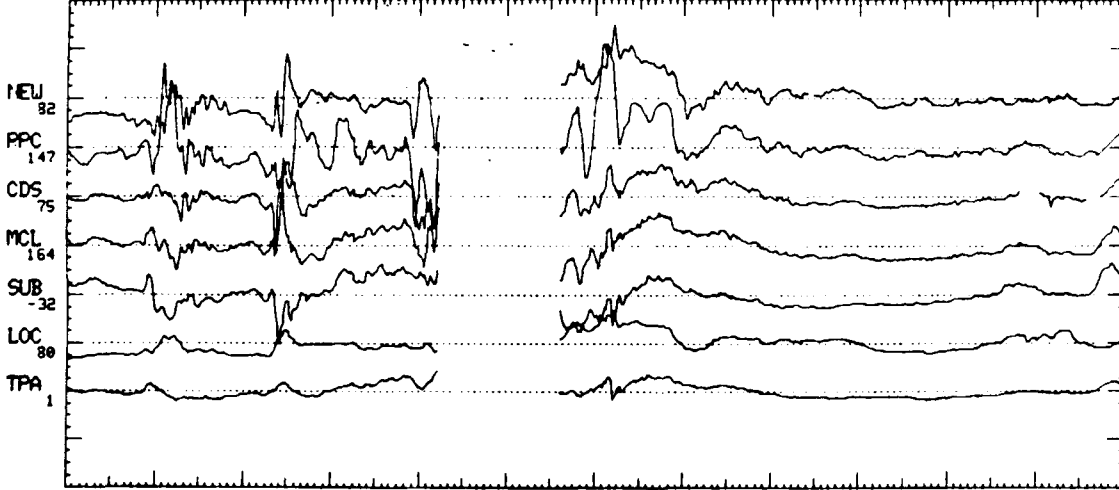
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



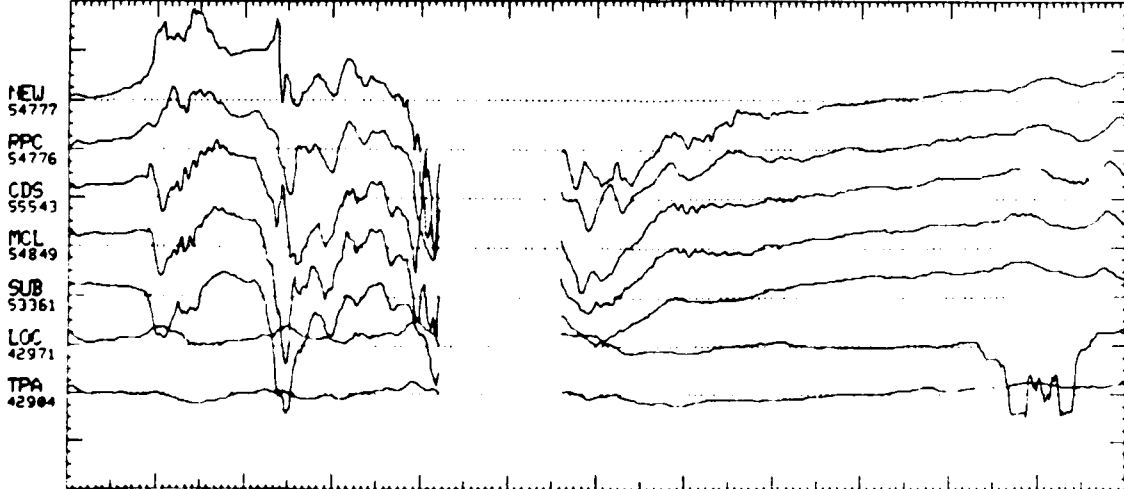
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

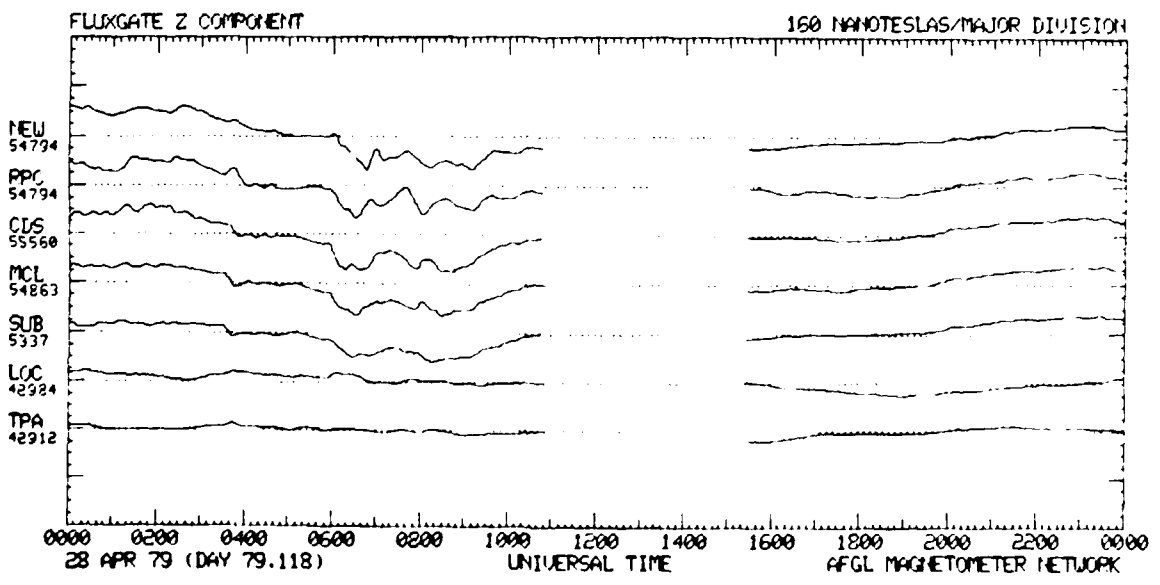
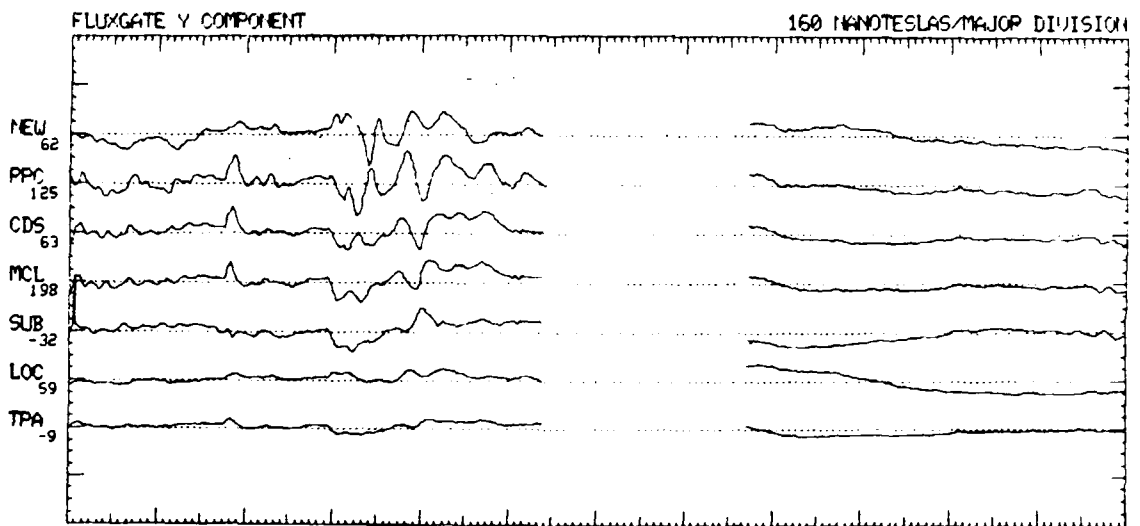
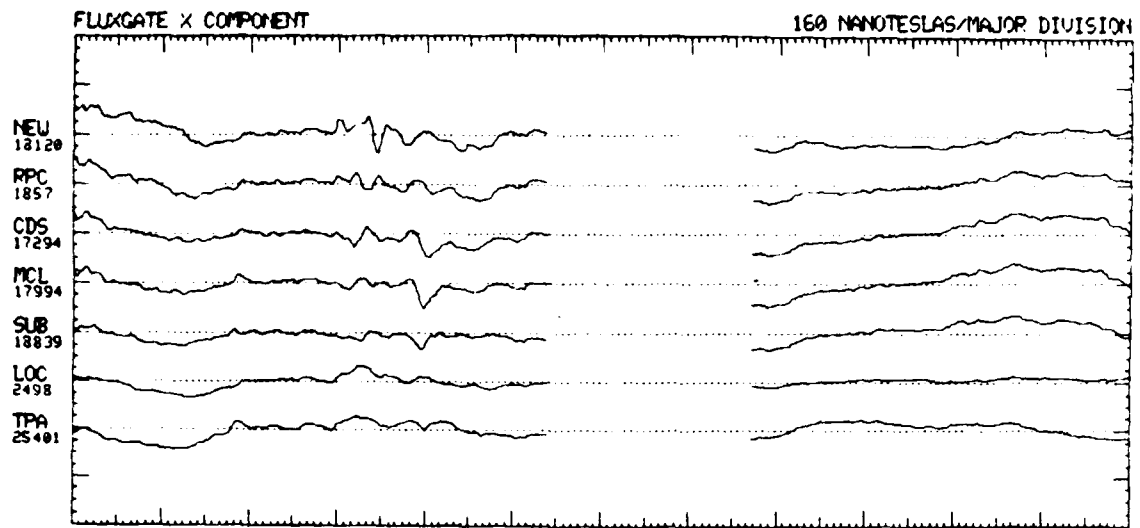


FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION



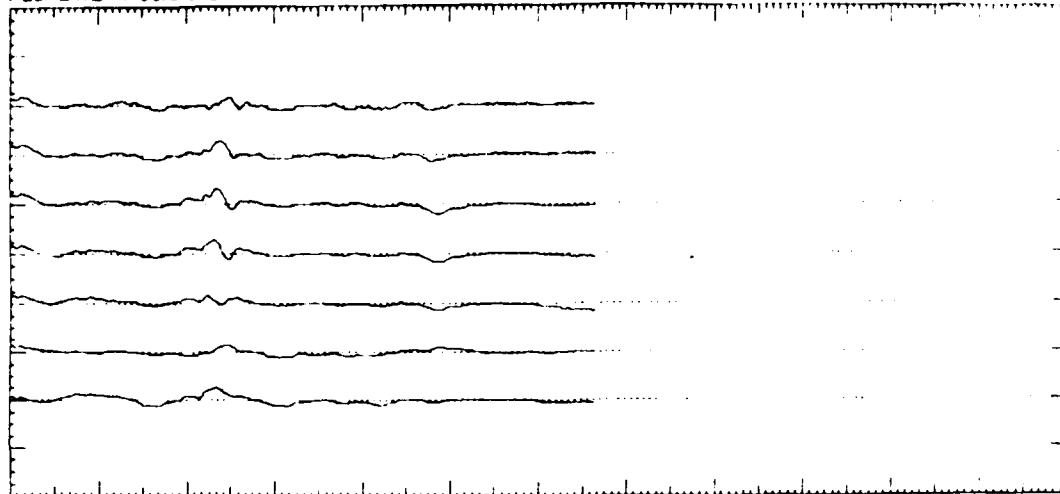
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
25 APR 79 (DAY 79.115) UNIVEPSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

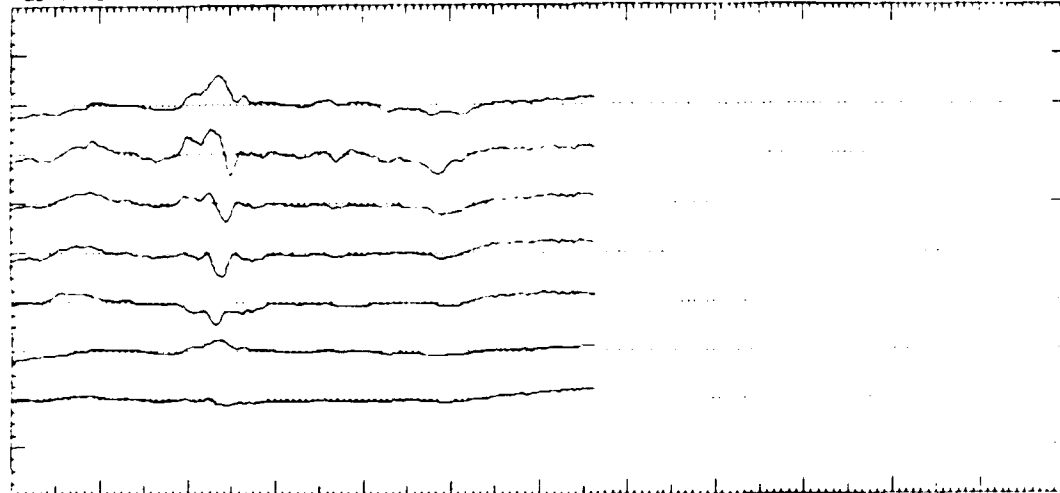
NEU
18153
PPC
13595
CDS
17309
MCL
13008
SUB
1884
LOC
25004
TPA
25420



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

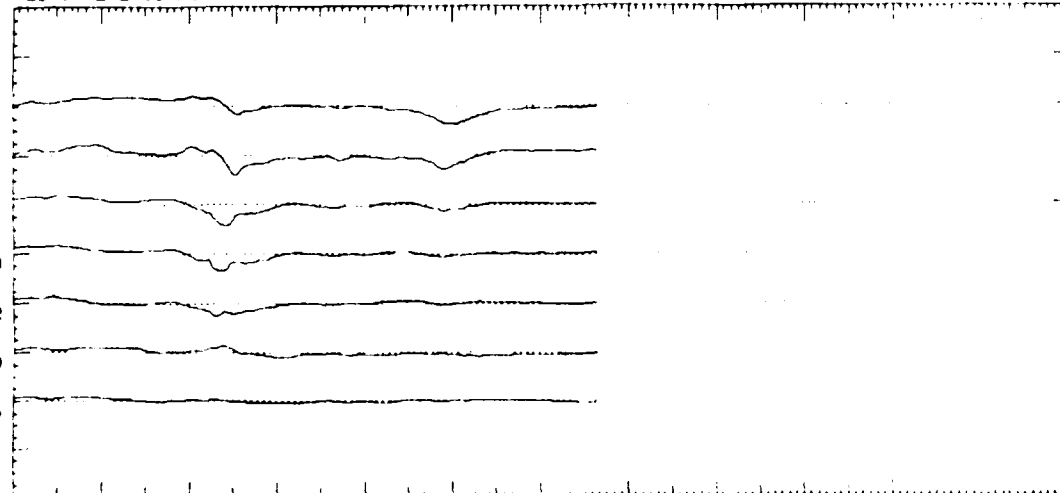
NEU
73
PPC
143
CDS
73
MCL
223
SUB
-14
LOC
70
TPA
4



FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

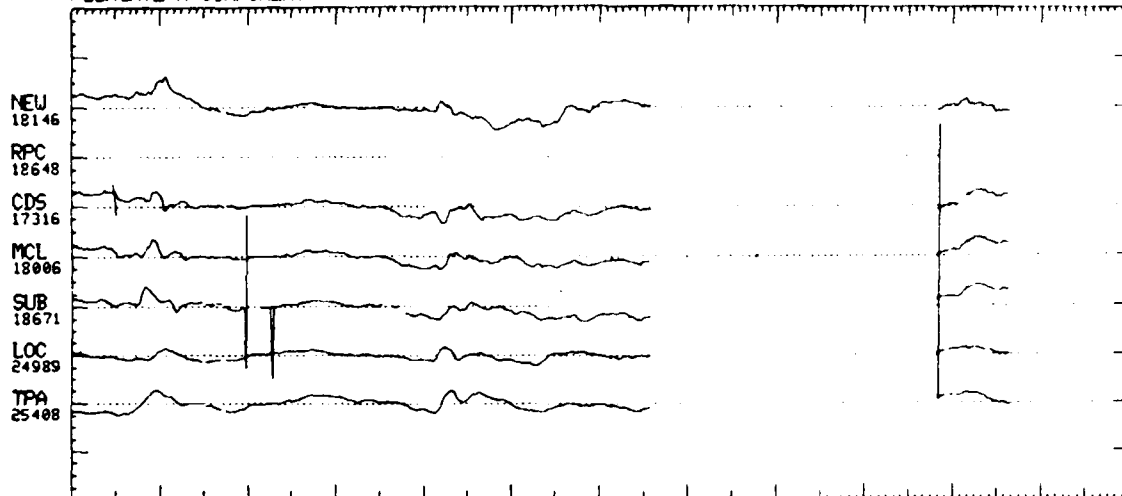
NEU
54777
PPC
54775
CDS
55546
MCL
54853
SUB
53372
LOC
42389
TPA
42906



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
01 MAY 79 (DAY 79.121) UNIVEPSAL TIME AFGL MAGNETOMETER NETWORK

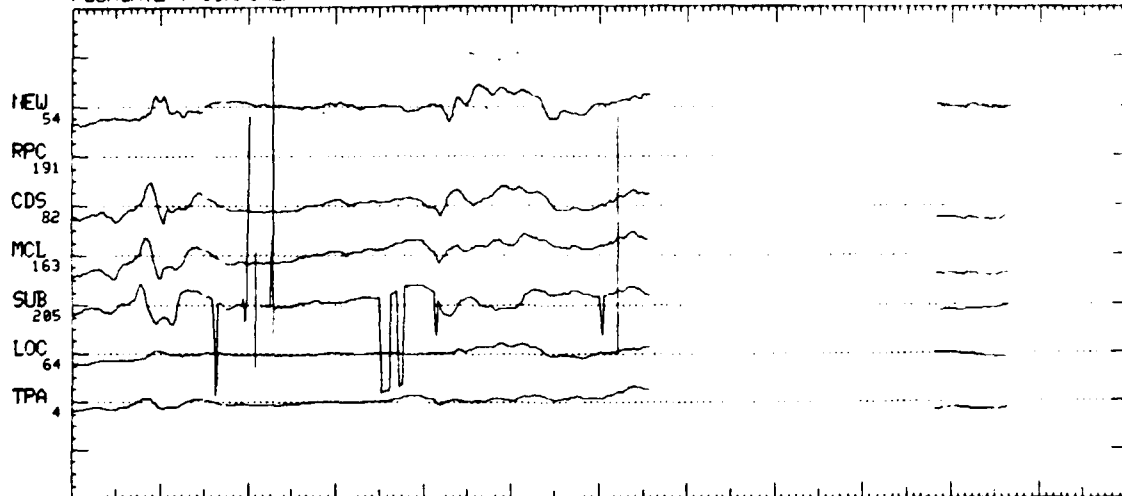
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



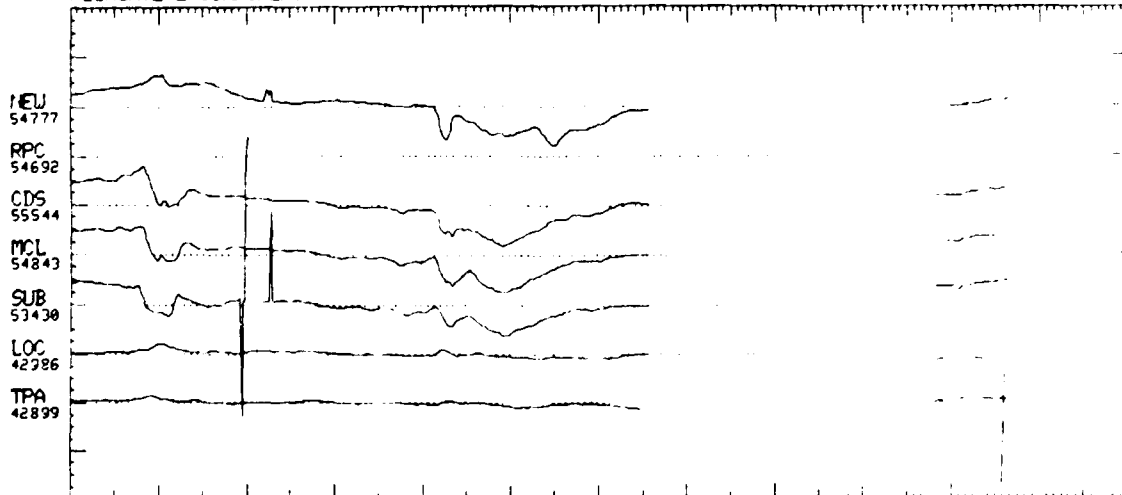
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

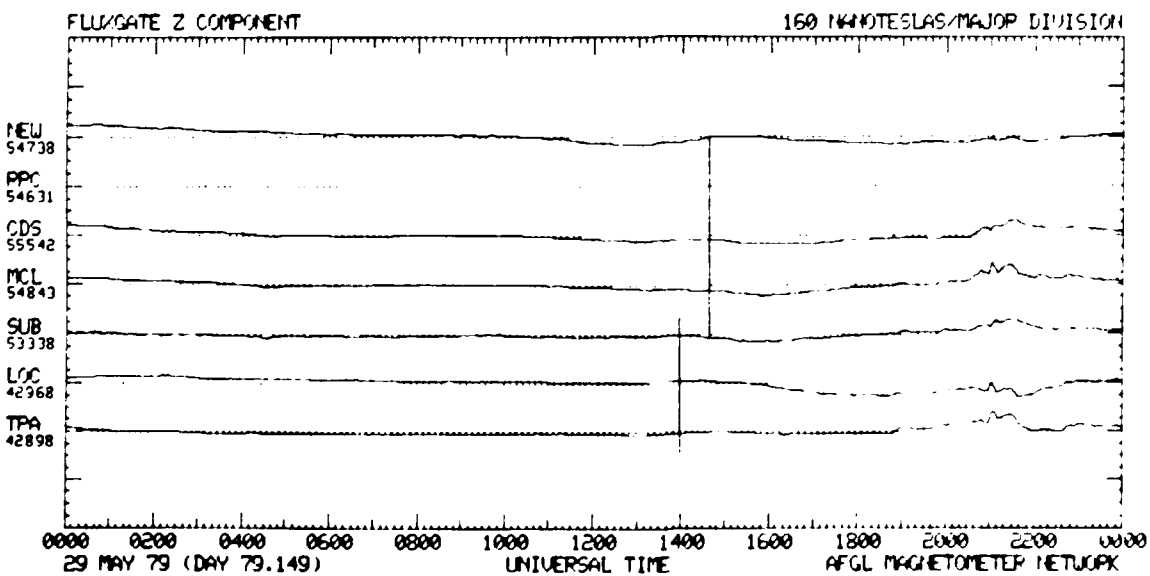
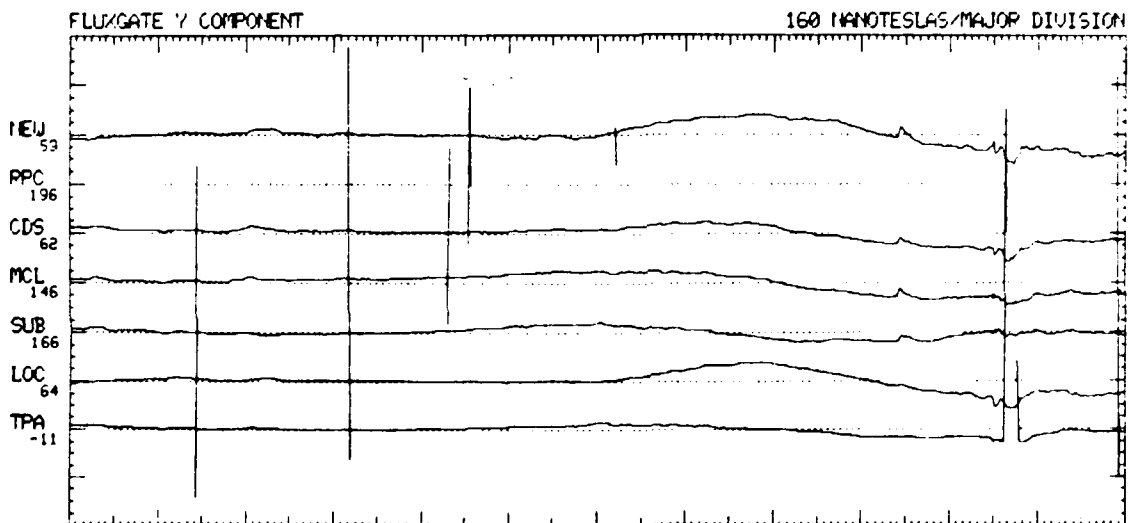
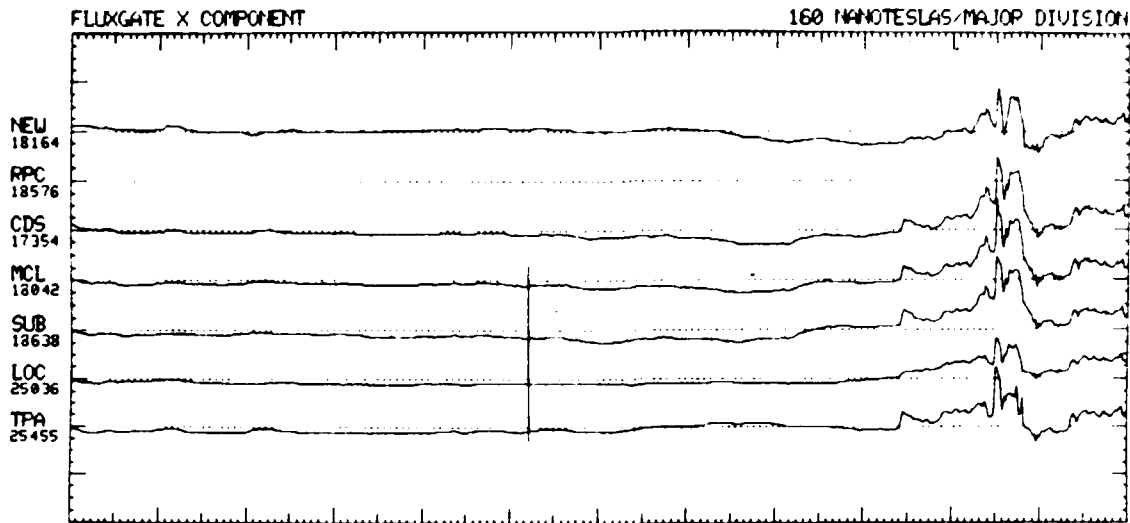


FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION



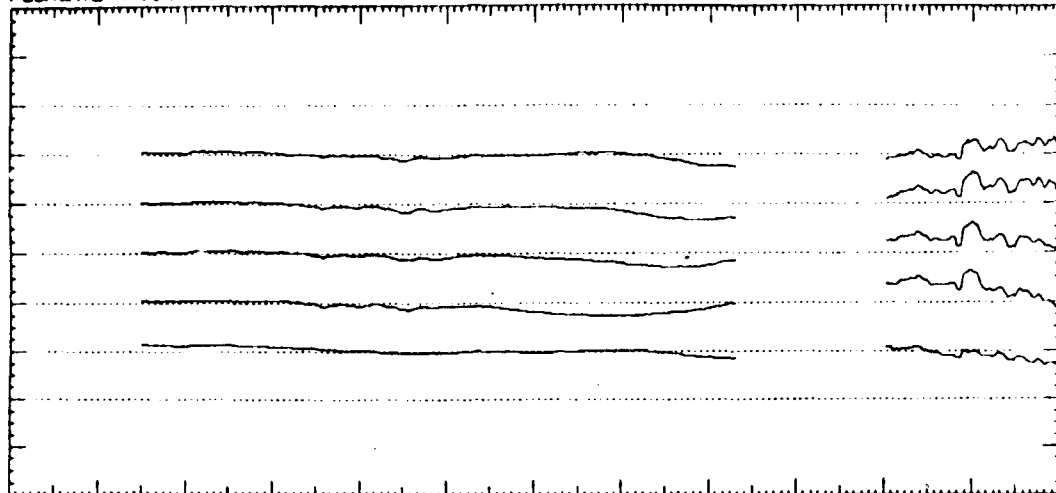
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
22 MAY 79 (DAY 79.142) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

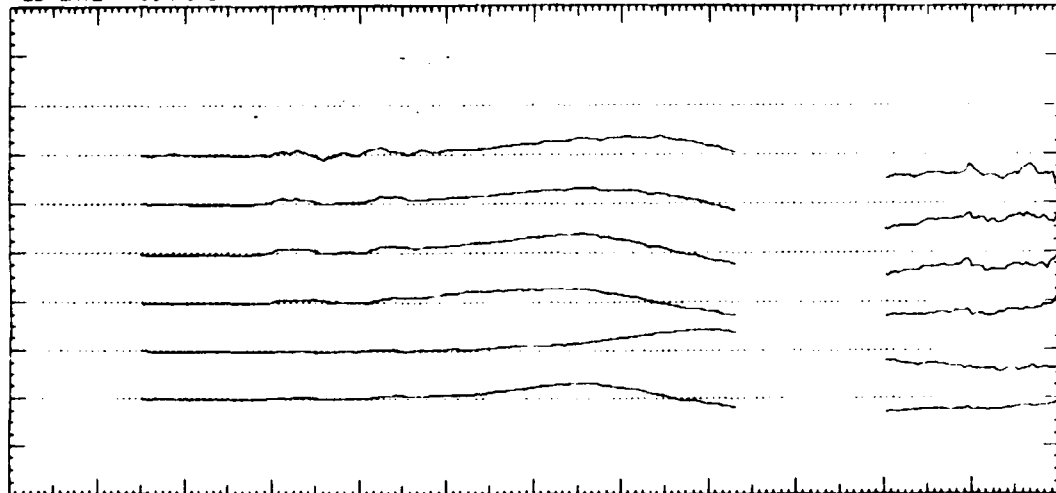
RPC
13691
CDS
17384
MCL
18658
SUB
18685
LOC
25045



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

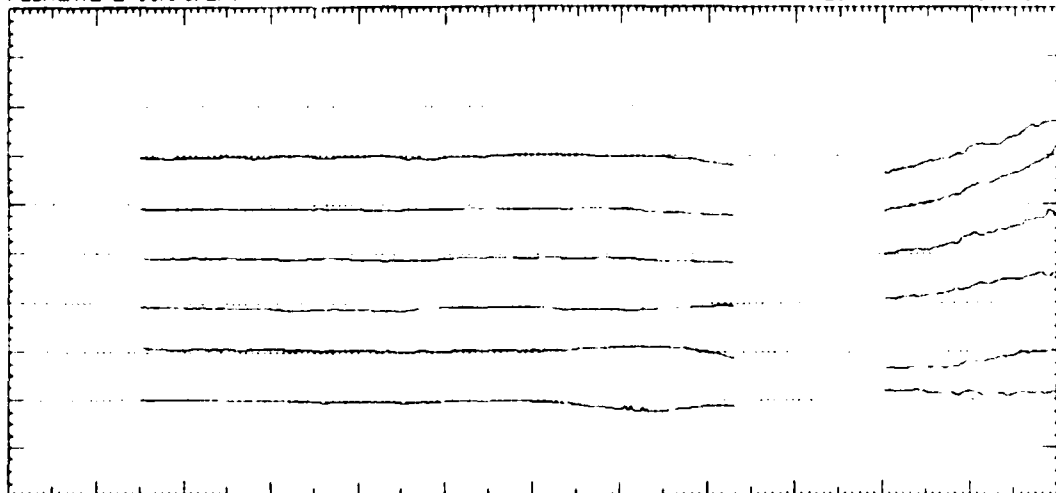
RPC
24
CDS
57
MCL
36
SUB
102
LOC
66
TPA
-1



FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

PPC
54743
CDS
55530
MCL
54787
SUB
53344
LOC
42948
TPA
42879

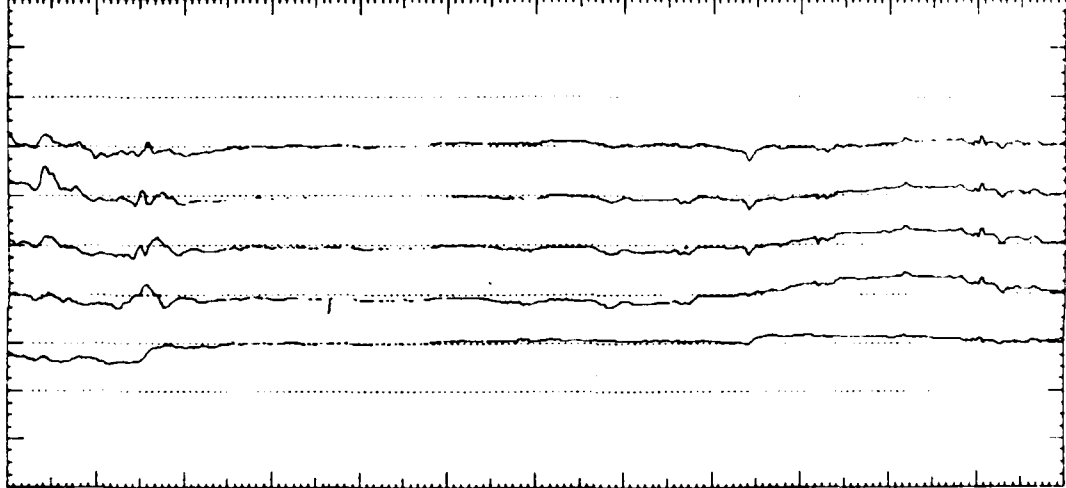


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 JUL 79 (DAY 79.207) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

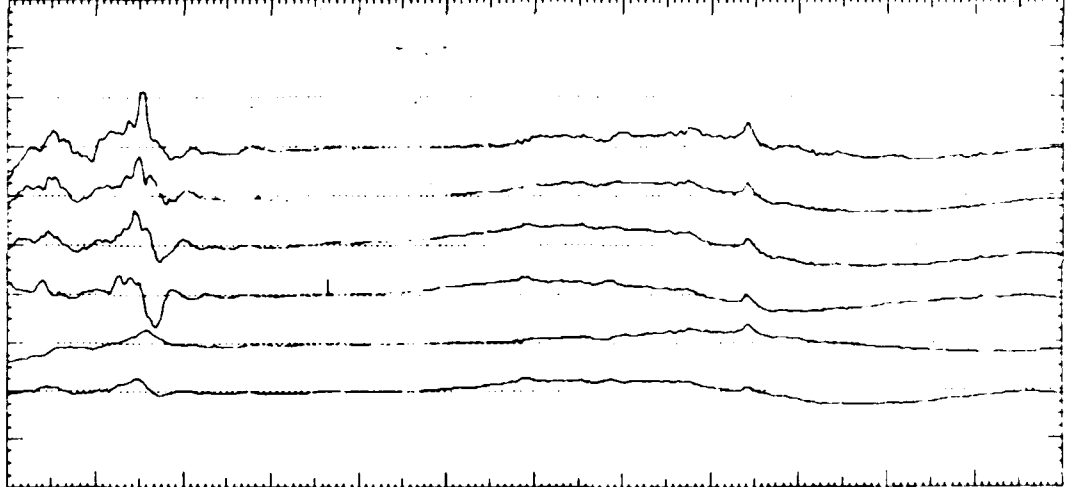
RPC
18664
CDS
17365
MCL
18938
SUB
18671
LOC
25019



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

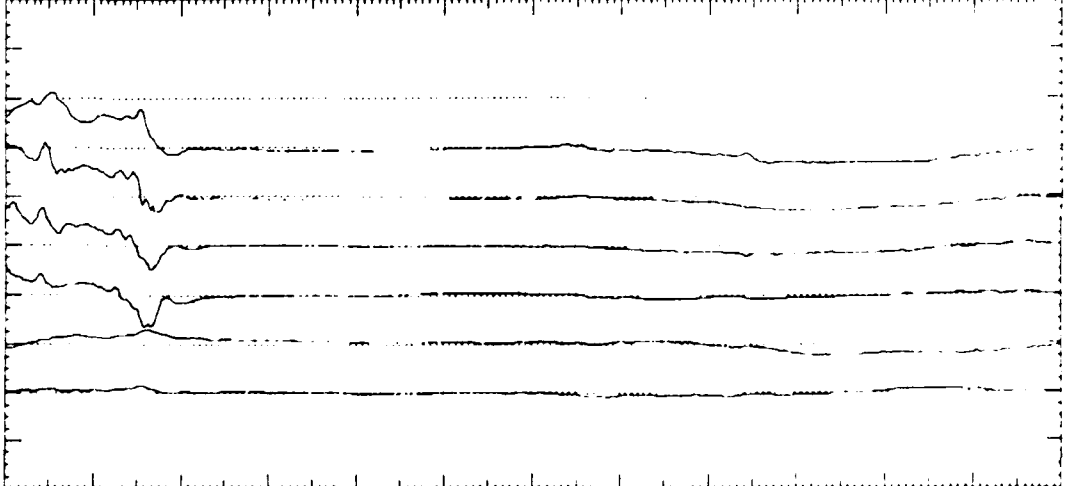
RPC
27
CDS
63
MCL
44
SUB
99
LOC
63
TPA
0



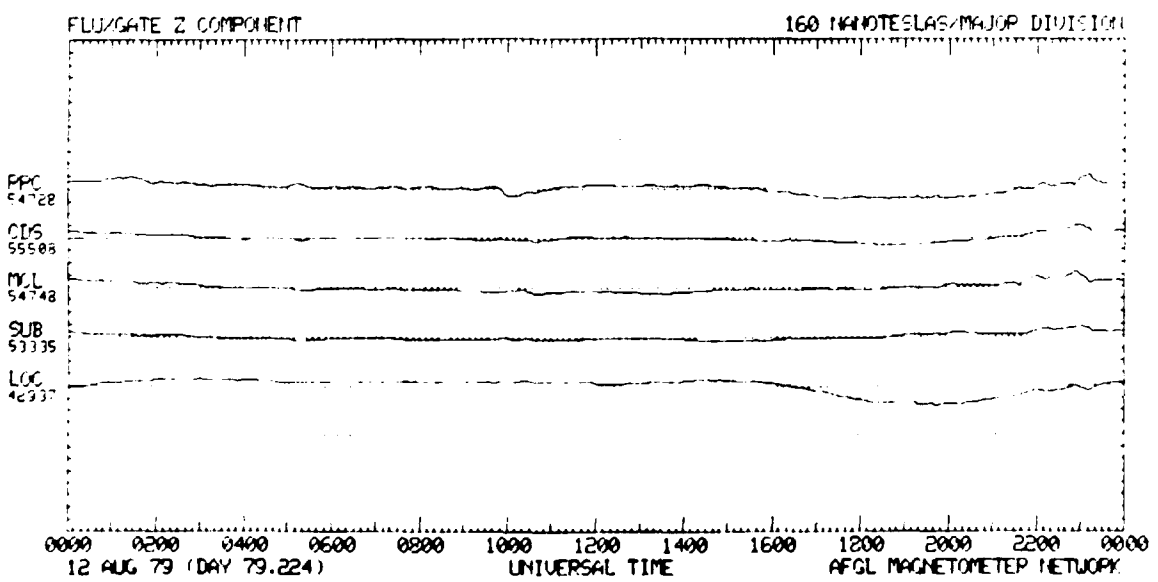
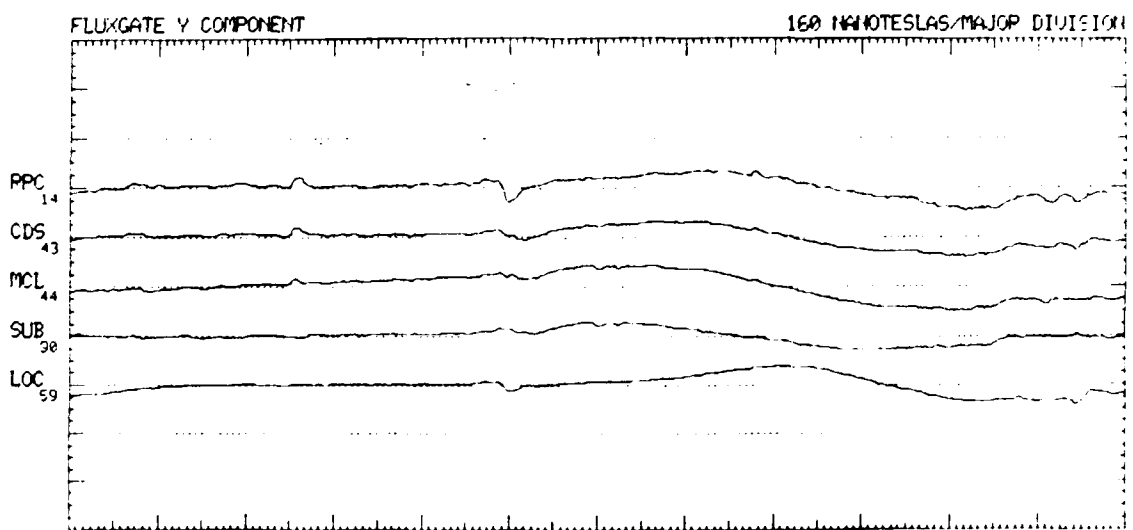
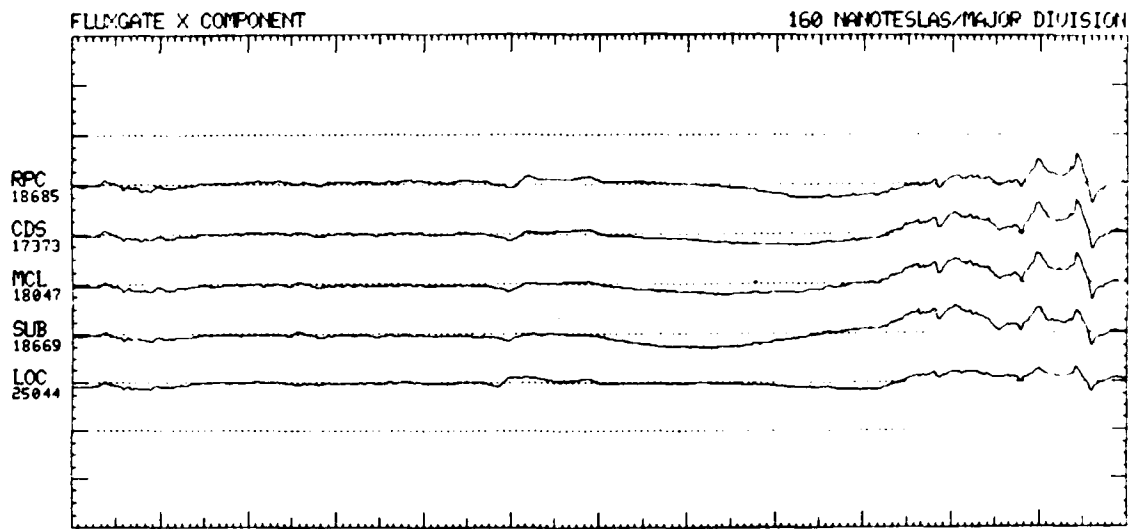
FLUXGATE Z COMPONENT

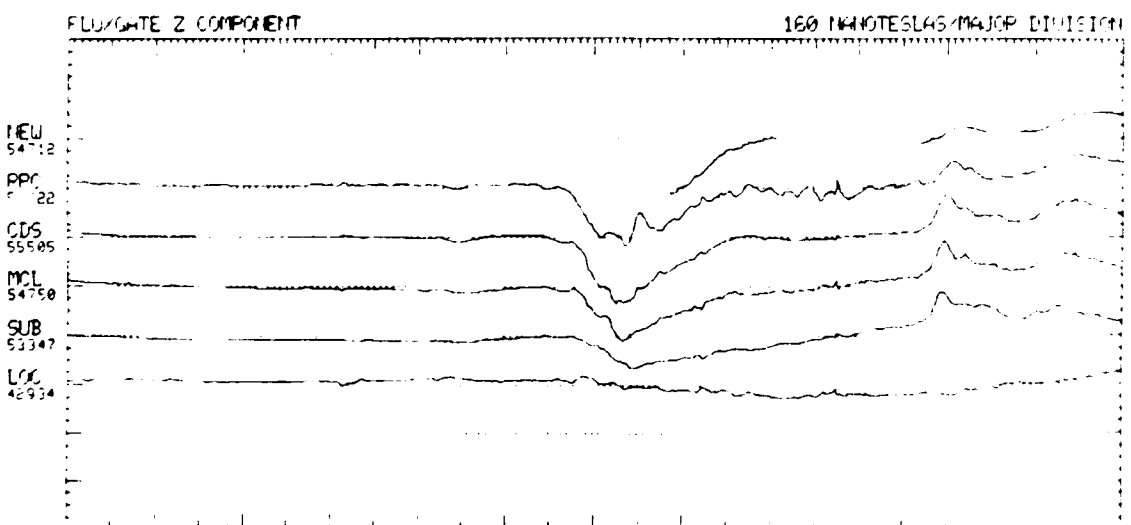
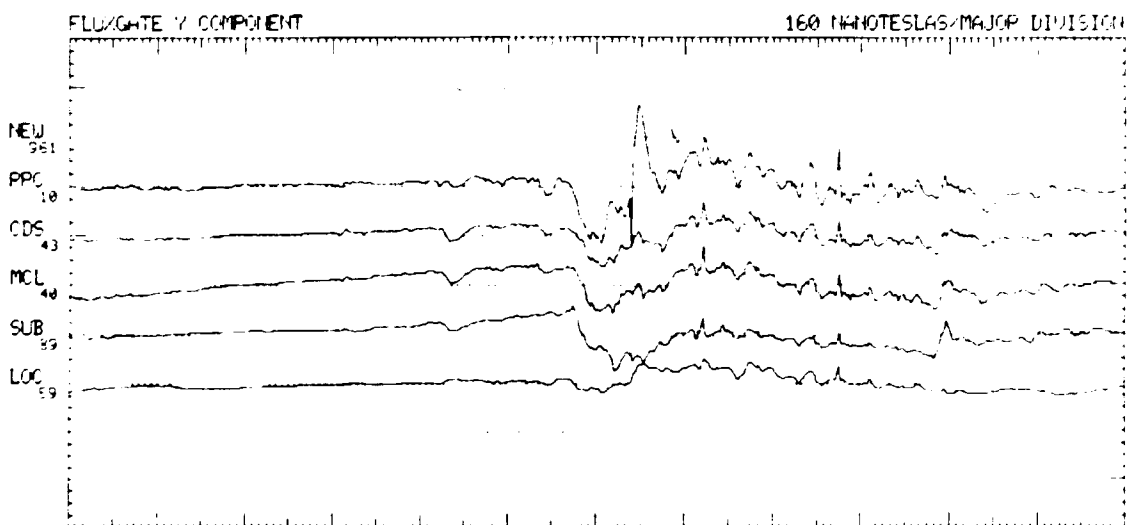
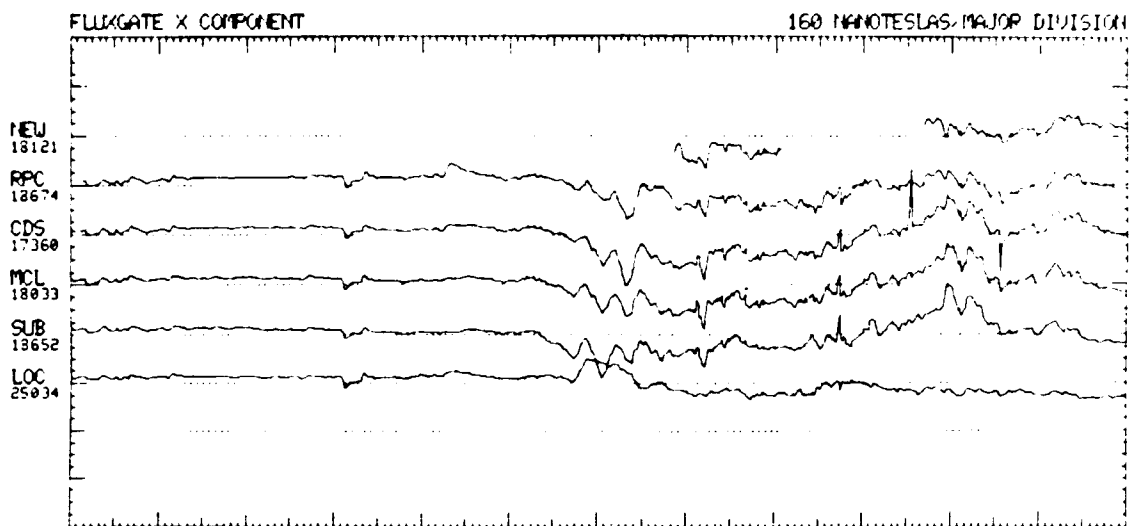
160 NANOTESLAS/MAJOR DIVISION

RPC
54759
CDS
55542
MCL
54788
SUB
5334
LOC
42956
TPA
42894



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
27 JUL 79 (DAY 79.208) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

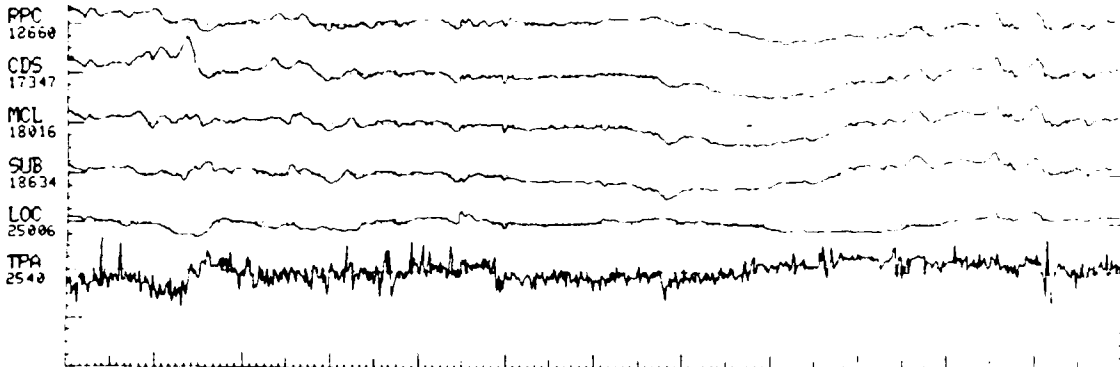




0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0300
 13 AUG 79 (DAY 79.225) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

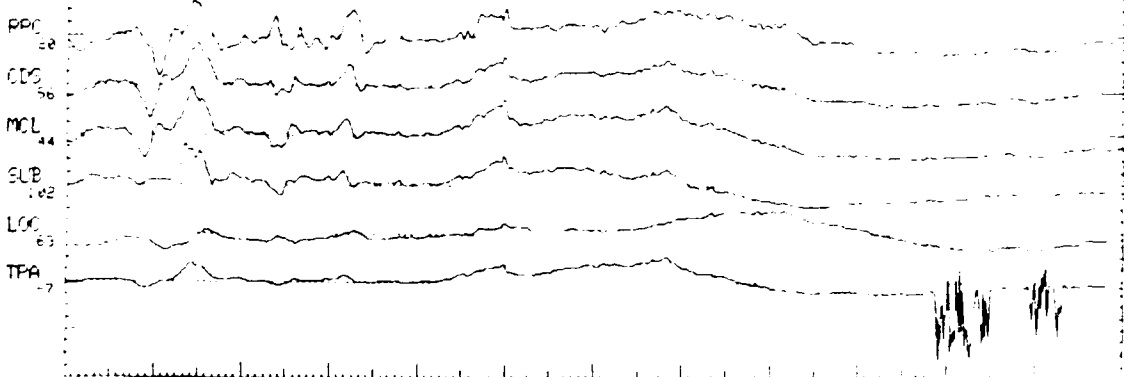
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



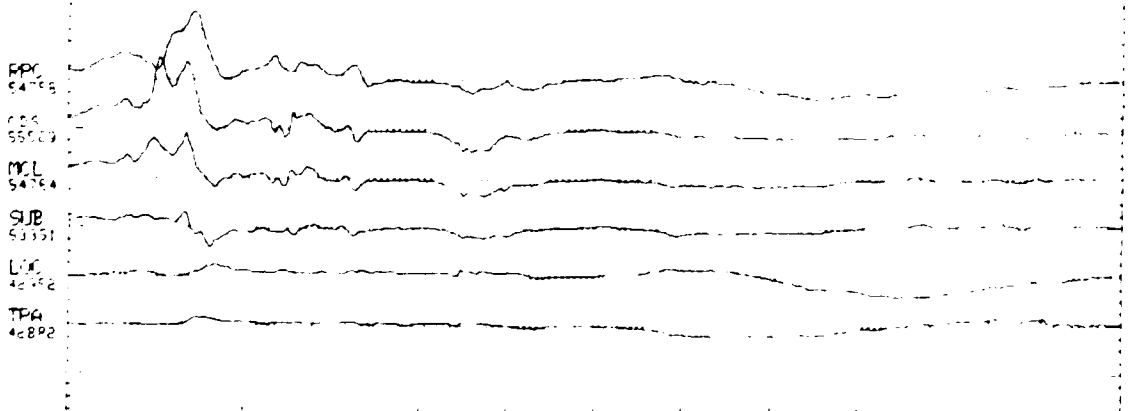
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

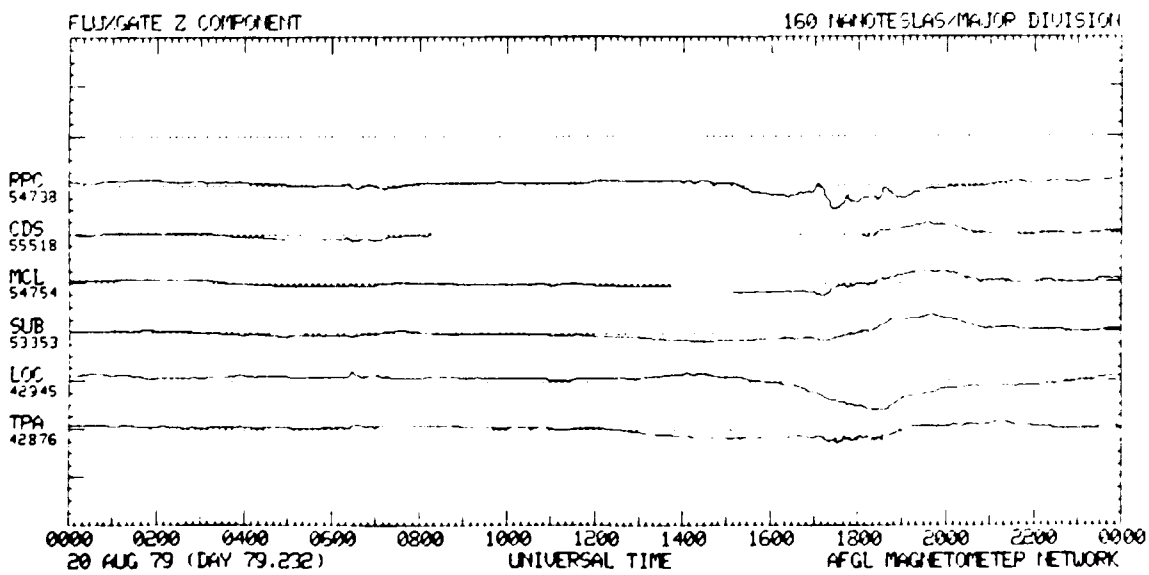
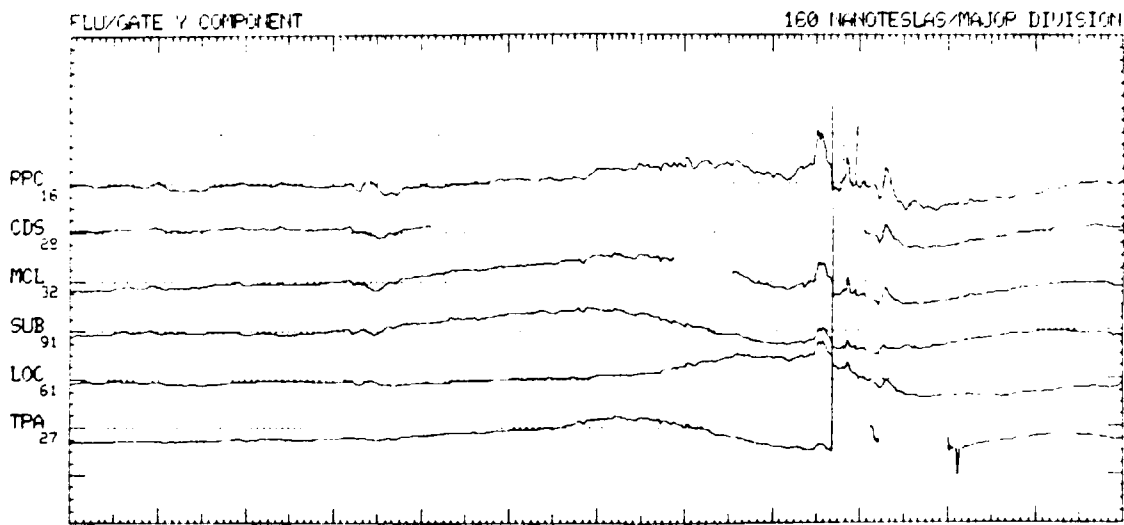
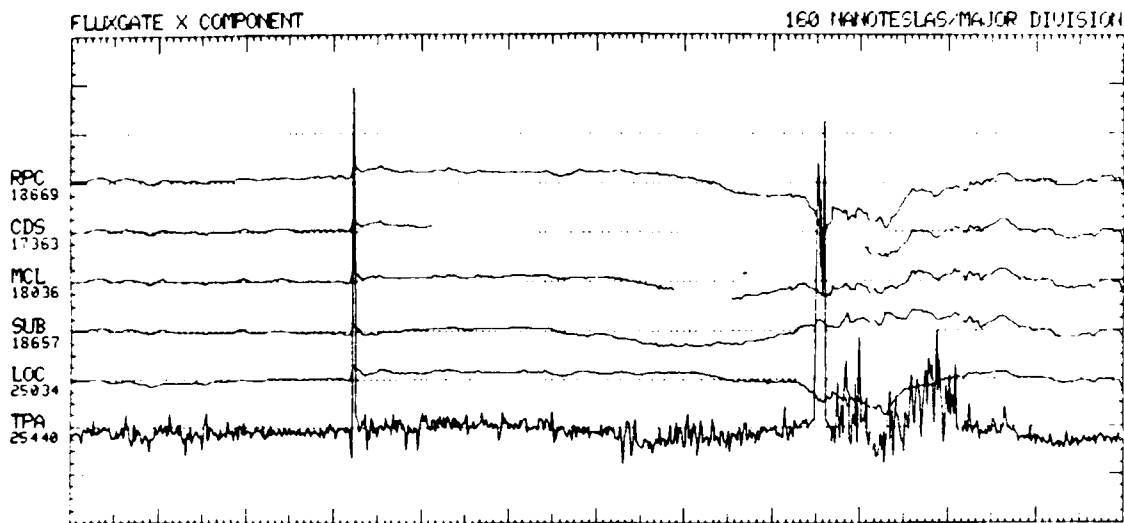


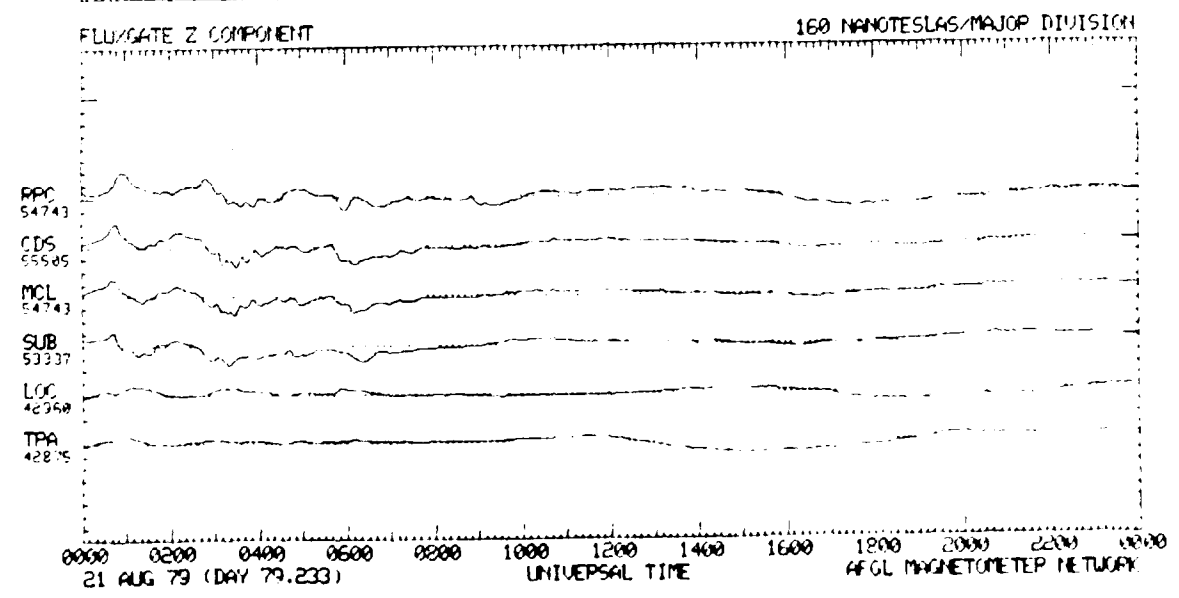
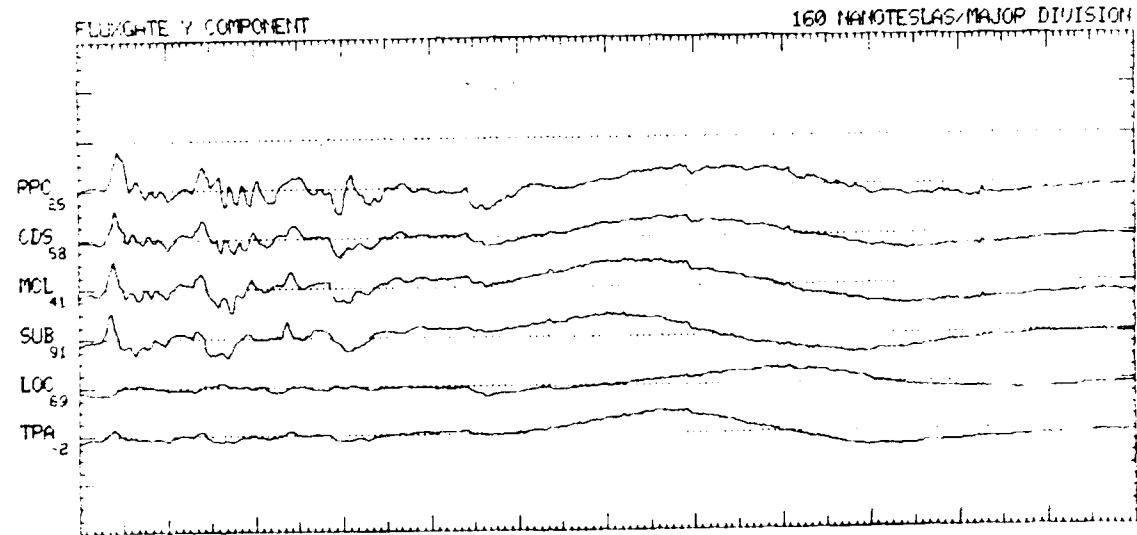
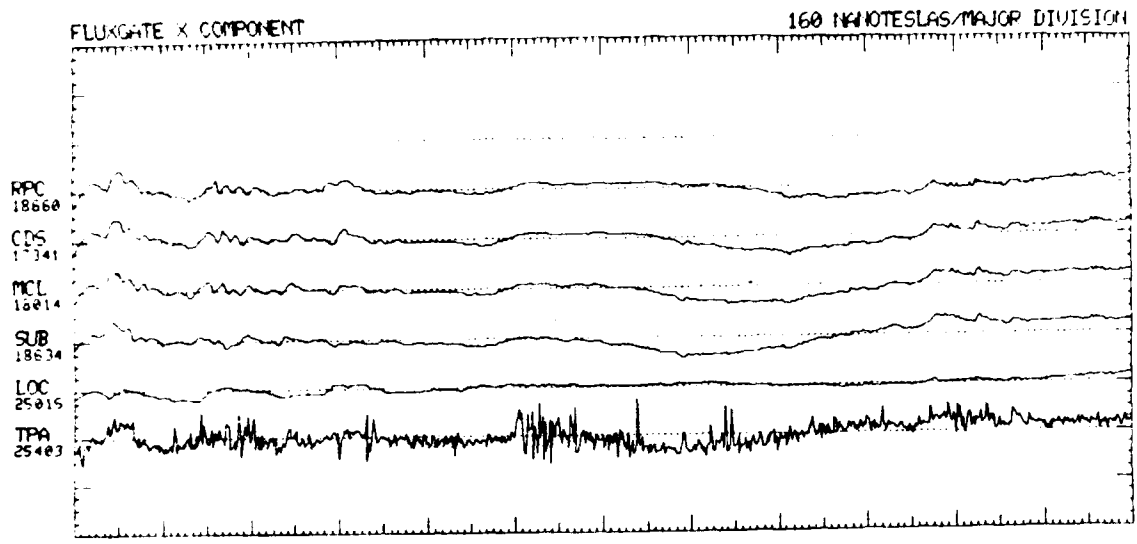
FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION



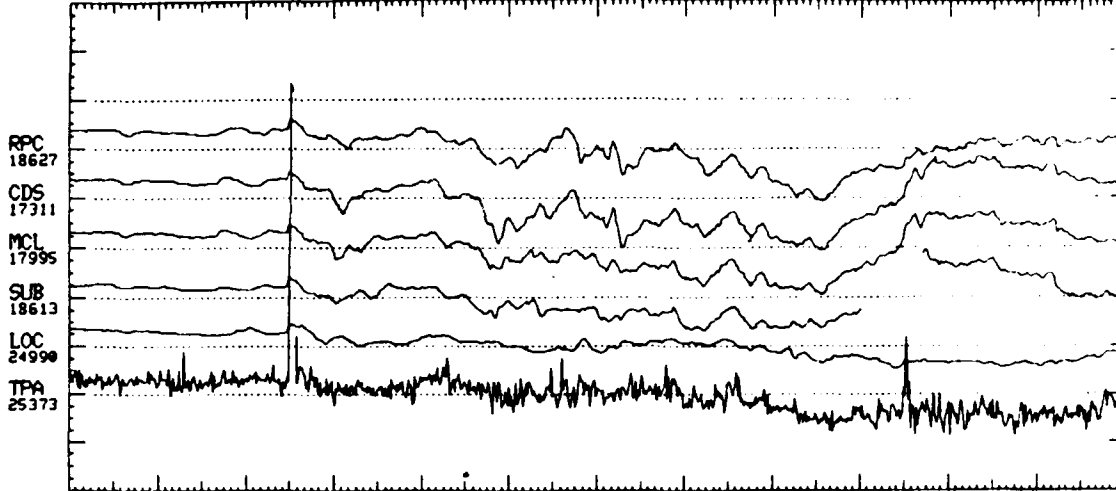
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 AUG 79 (DAY 79.231) UNIVERSAL TIME HGL MAGNETOMETER NETWORK





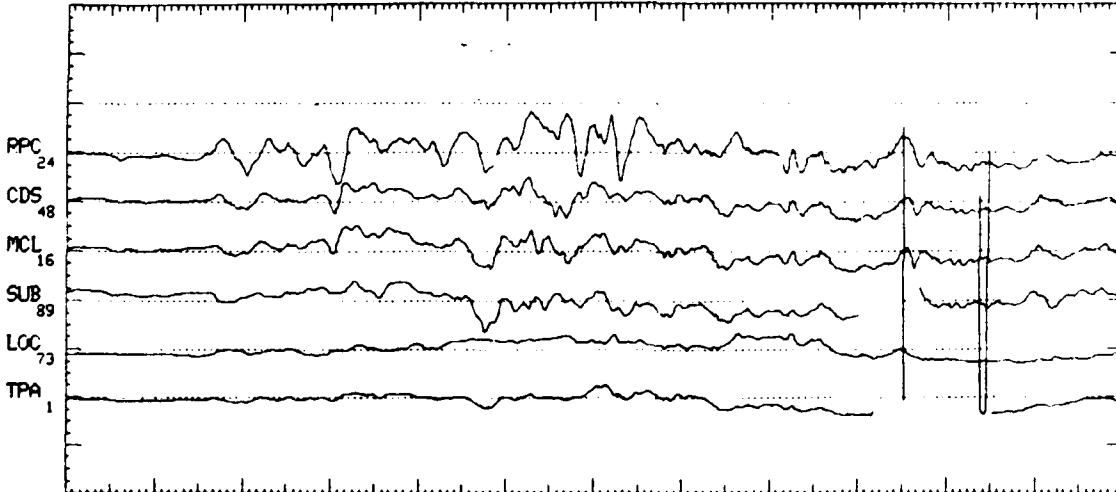
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



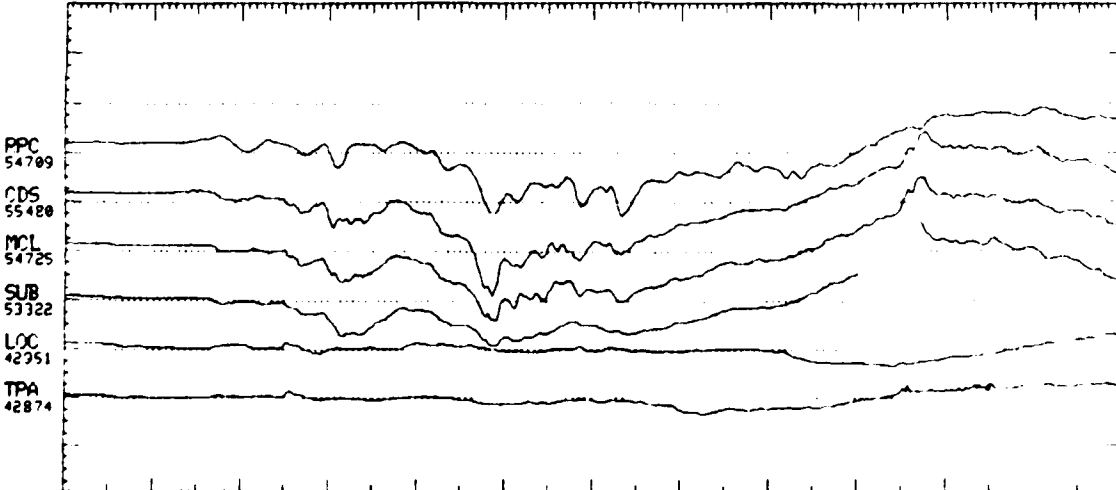
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

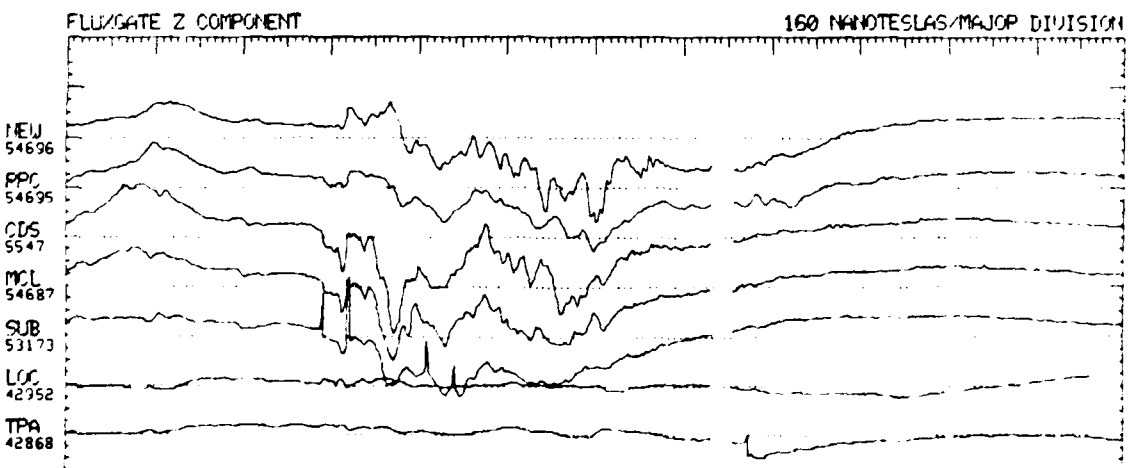
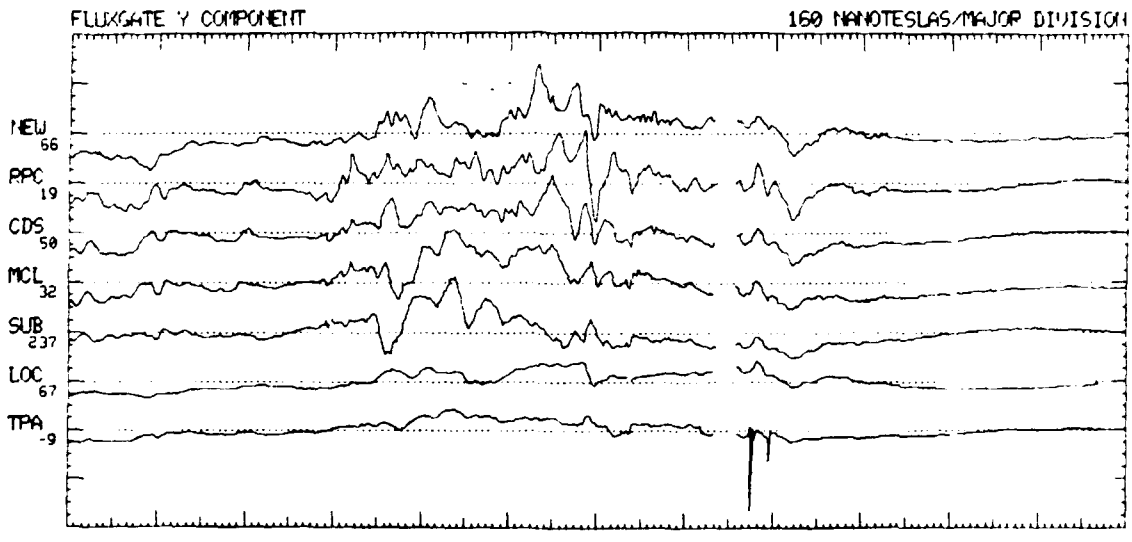
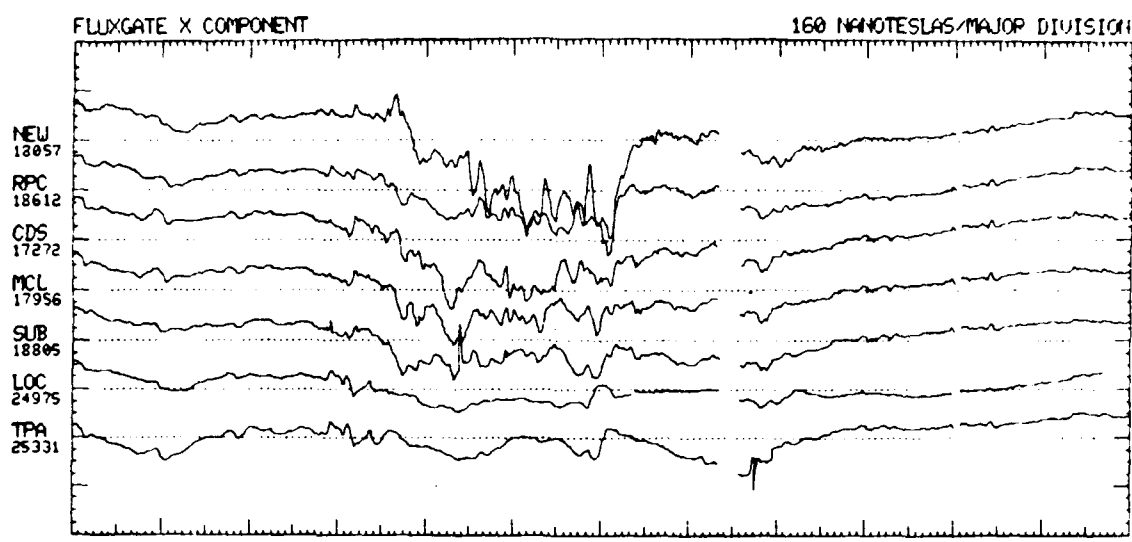


FLUXGATE Z COMPONENT

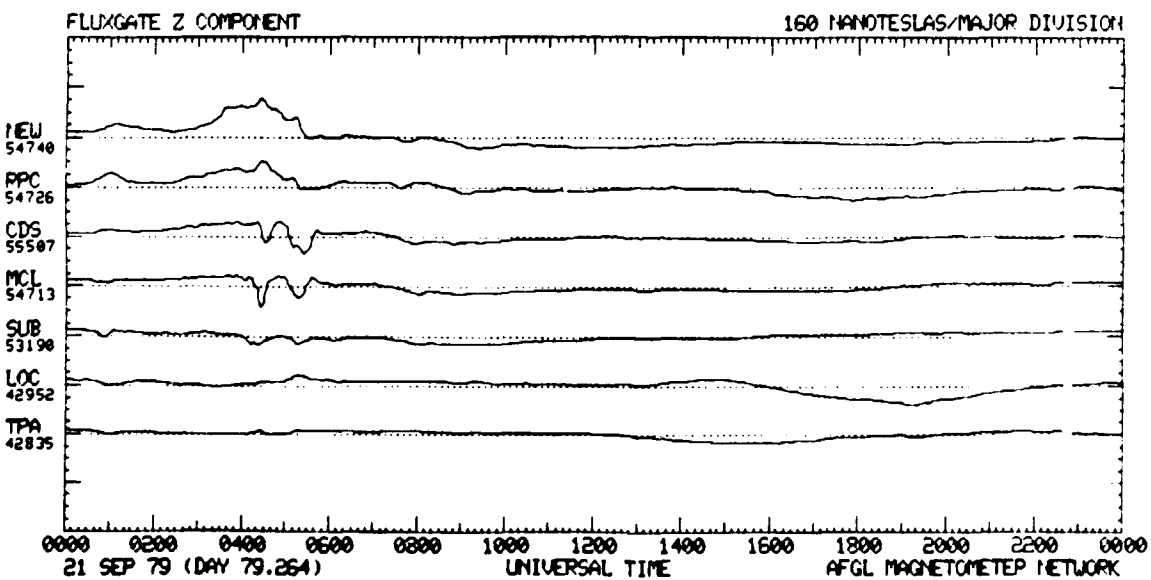
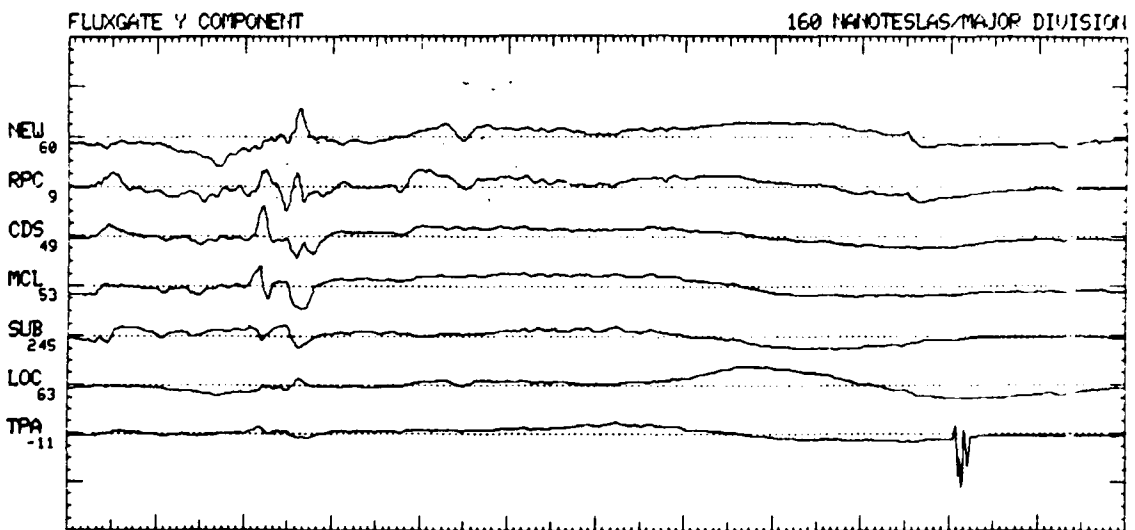
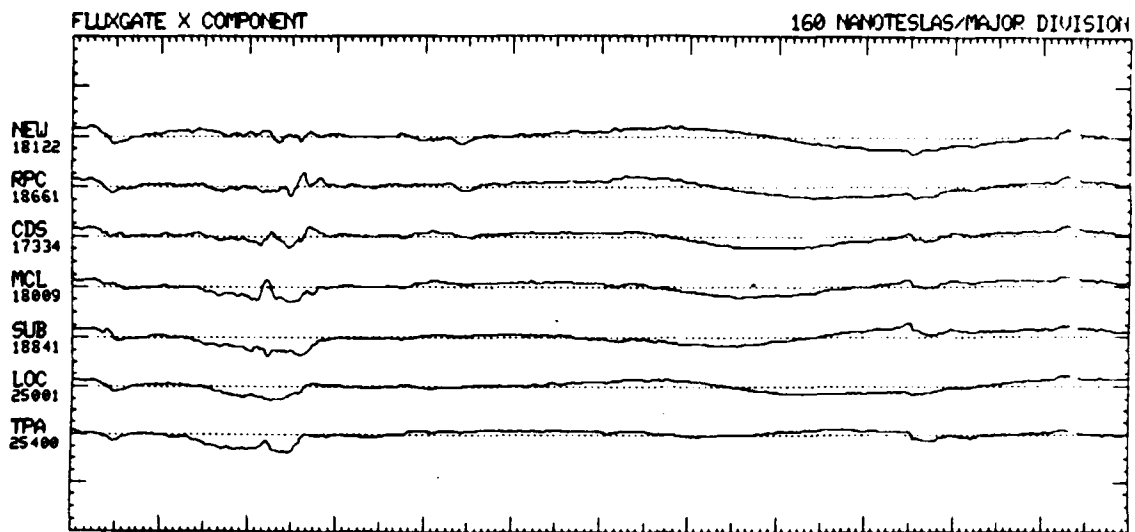
160 NANOTESLAS/MAJOR DIVISION

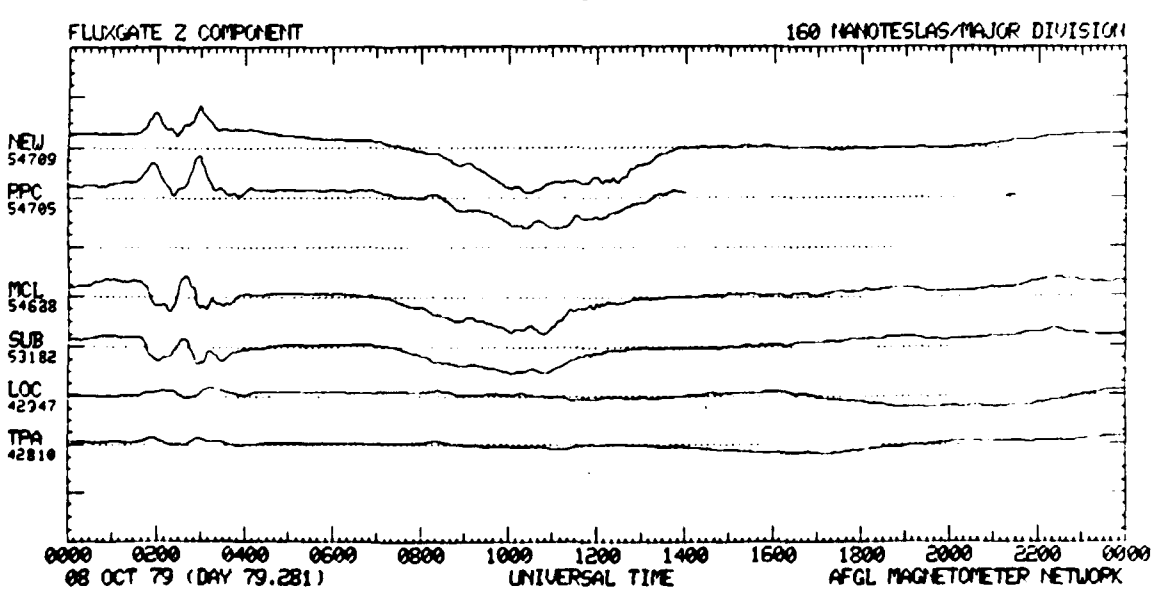
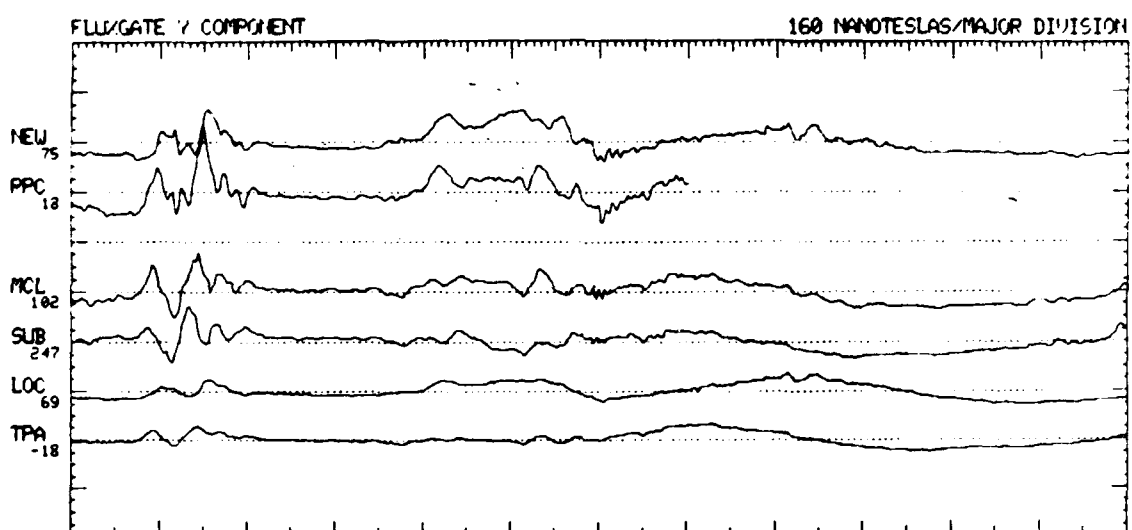
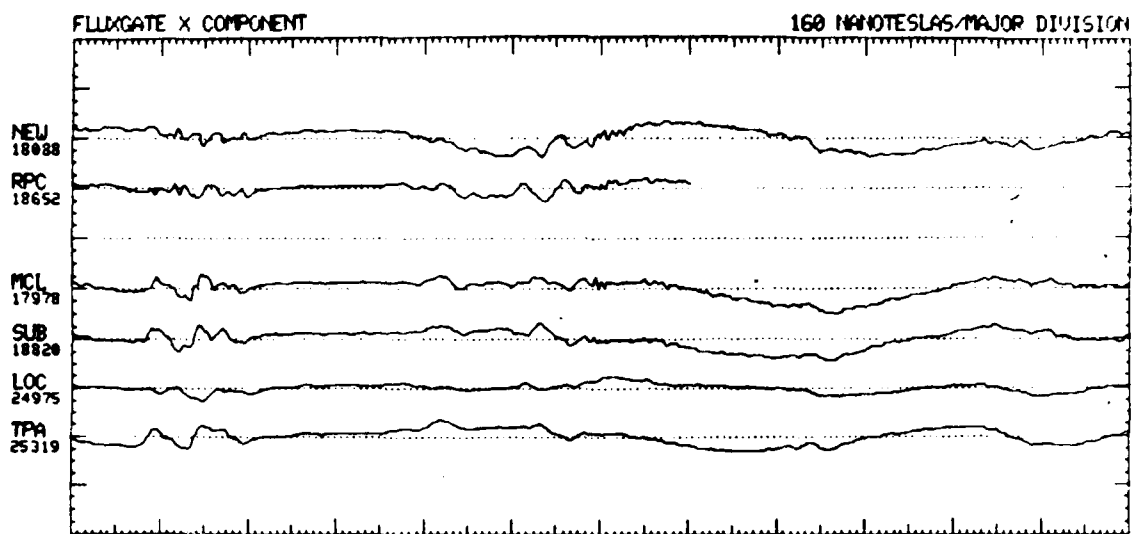


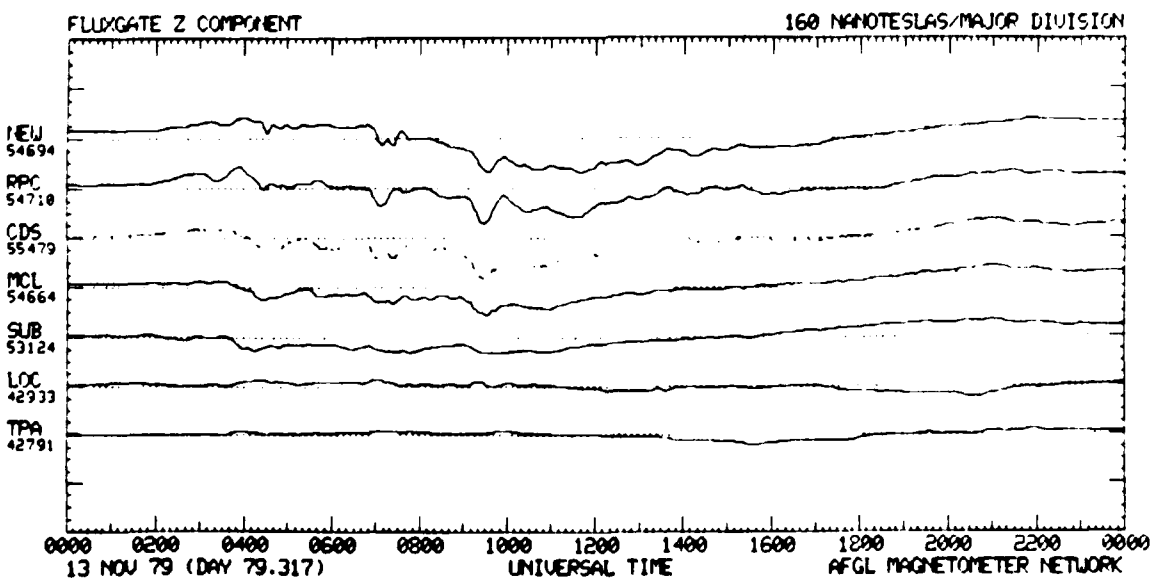
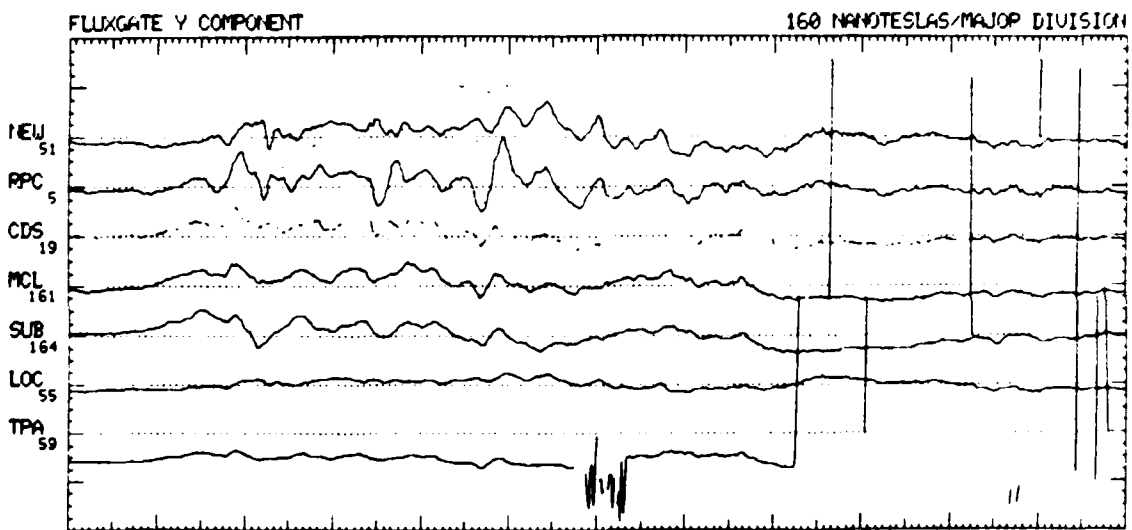
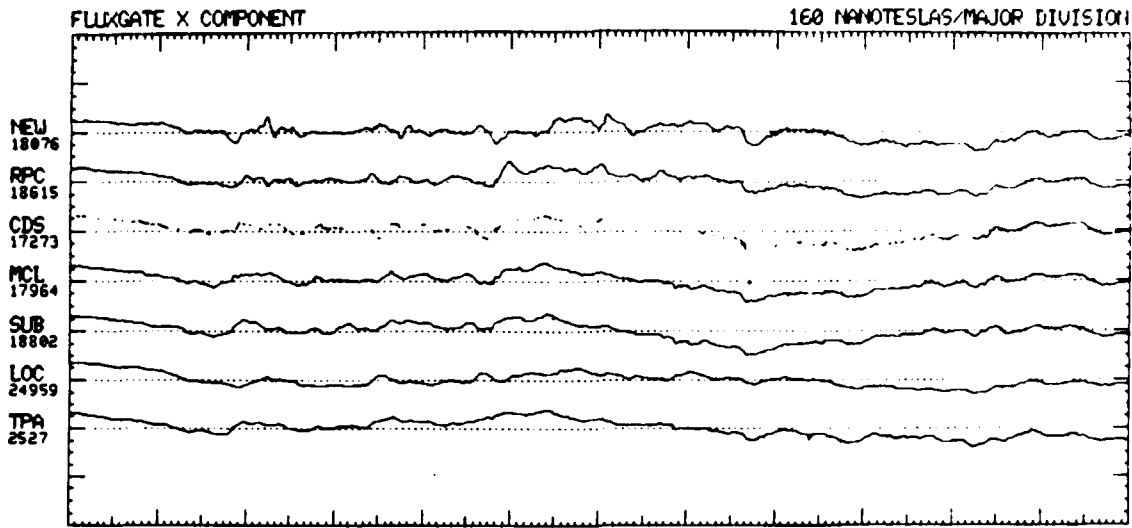
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
29 AUG 79 (DAY 79.241) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
 18 SEP 79 (DAY 79.261) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



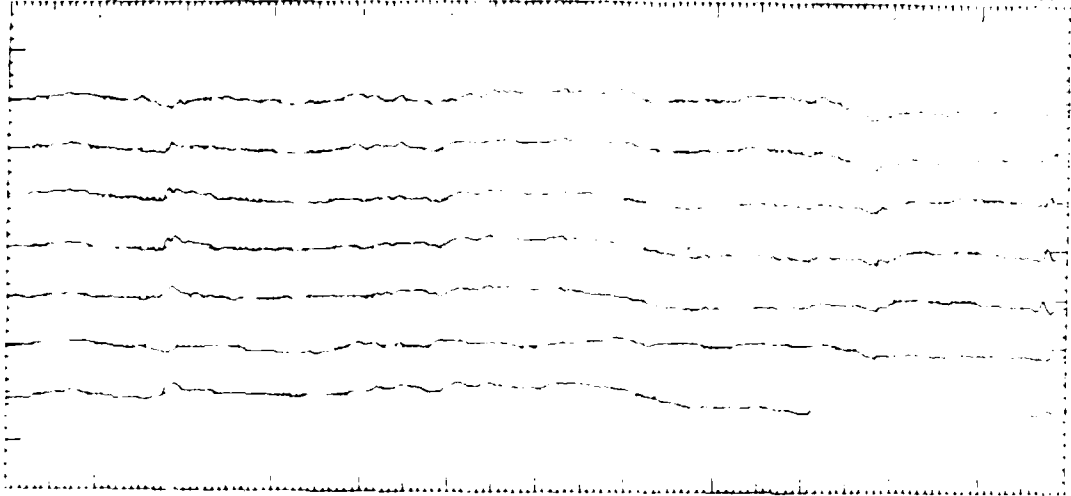




FLUXGATE X COMPONENT

160 NANOTESLAG MAJOR DIVISION

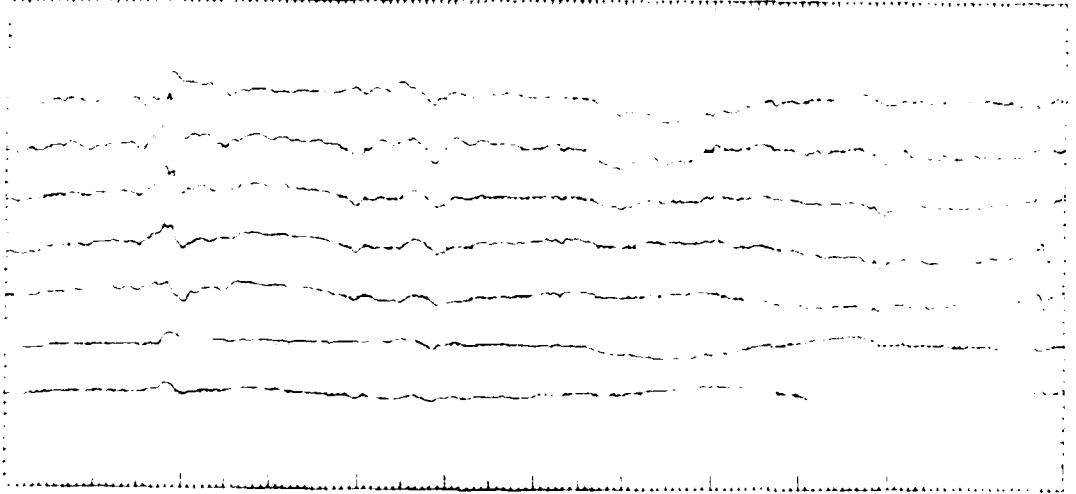
NEU
12083
RPC
13022
CDS
17256
MCL
17954
SUB
18627
LOC
24981
TPA
25388



FLUXGATE Y COMPONENT

160 NANOTESLAG MAJOR DIVISION

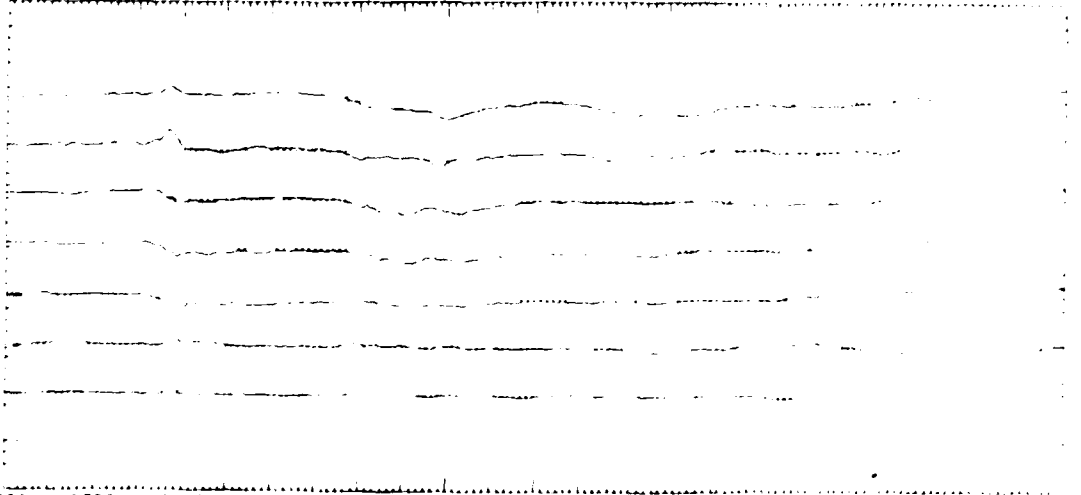
NEU
RPC
CDS
MCL
SUB
LOC
TPA



FLUXGATE Z COMPONENT

160 NANOTESLAG MAJOR DIVISION

NEU
54725
RPC
54724
CDS
57749
MCL
54610
SUB
53032
LOC
47921
TPA
42705



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
29 DEC 79 (DAY 79.363) UNIVERSAL TIME MAGNETOMETER NETWORK

END

12-86

DTIC