#646

GOES 2 & 5

MAGNETOMETER DATA (CDAW 8)
77-048A-04C
81-049A-04A

DE-2

VEFI DC AVERAGED & SPECTOMETER DATA (CDAW 8)
81-070B-02A

GMS -2

2-MIN AVERAGE COUNTS ELECTRON & PROTON (CDAW 8)
81-076A-02A

DE-1

6 SECOND MAGNETOMETER DATA (CDAW 8)
81-070A-01A

DE-2

5 SECOND MAGNETOMETER DATA (CDAW 8)
81-070B-01A

- 1

COLD PLASMA ION COUNT RATES
81-070A-04A

646	77-048A-04C	SPMS-00003
646	81-049A-04A	SPMS-00245
646	81-070A-01A	SPMS-00613
646	81-070A-04A	SPMS-00397
646	81-070B-01A	SPMS-00396
646	81-070B-02A	SPMS-00104
646	81-076A-02A	SPHE-00483

Table of Contents

1. Introduction

2. Errata/Change Log

3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM

4. Catalog Materials

    a. Associated Documents

    b. Core Catalog Materials

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

REQ. AGENT	RAND NO.	ACQ. AGENT
GLS	V0324	HKH

GOES 2 & GOES 5

MAGNETOMETER DATA

77-048A-04C SPMS-00003
81-049A-04A SPMS-00245

THIS DATA SET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE IS 9 TRACK, 1600 BPI, WRITTEN IN ASCII AND CONTAINS 5 FILES OF DATA. THE TAPE WAS CREATED ON A DATA GENERAL M600 COMPUTER. THE FIRST 3 FILES CONTAIN GOES 2 MAGNETOMETER DATA AND FILES 4 AND 5 CONTAIN GOES 5 MAGNETOMETER DATA. THE D AND C NUMBER AND THE TIME INTERVALS ARE AS FOLLOWS:

D#	C#	TIME INTERVALS	
D-73797	C-26045	01/28/83 - 03/26/83	(GOES 2)
		03/25/83 - 03/26/83	(GOES 5)

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL DATA CENTER
325 Broadway
Boulder, Colorado 80303

June 30, 1986 E/GC2:HWK

Ms. Leah Gatewood
NASA/GSFC Code 630.2
Greenbelt, MD 20771

Dear Leah,

Enclosed are a tape and proper documentation of the GOES-2 and GOES-5 magnetometer data for the five CDAW-8 events. We also have enclosed plots of the data to assist you in your processing. If you have any questions, please phone Dan Wilkinson at FTS 320-6137.

The geomagnetic field data and AE indices will be mailed in the near future.

Sincerely,

Herbert W. Kroehl

cc: Dan Wilkinson
Howard Singer
Bob Manka

Enclosures

TELEPHONE (303) 497-6215; FTS 320-6215 TELEX 592811 NOAA MASC BDR

COORDINATED DATA BASE 8 (CDB-8) QUESTIONNAIRE

(PLEASE RETURN BY MARCH 10, 1986)

NAME: Herbert W. Kroehl TELEPHONE: 303-497-6121

ADDRESS: NOAA/NGDC E/GC2
325 Broadway
Boulder, CO 80303

TELEX (Carrier, Number, Answer Back): ?, 592811, NOAA MASC BDR

TELENET ADDRESS: TELEMAIL: JHALLEN/NGDC/NESDIS

SPAN ADDRESS (Node Name::Account Name): _____

TELEMAIL: JHALLEN

1. I wish to participate: Yes ✓ No ____

2. If no, do you wish to remain on the distribution list? Yes ____ No ____

3. The area of interest with which I would logically affiliate is (denote first and second choices):

___ 1. Solar Wind	___ 4. Plasma	___ 7. Model/Theory
✓ 2. Magnetic Field	___ 5. Waves	___ 8. Other _____
___ 3. Electric Field	___ 6. Particles	

4. It is highly desirable for NSSDC to receive data by March 24. Please note that NSSDC will assist in averaging, coordinate transformations, etc; the important step is to send the data with documentation now. I can send my data to NSSDC by summer (date). The data will be submitted on tape yes, or electronically using the no network.

5. The CDAW 8 Planning Committee has selected the following intervals for study. Please indicate, next to each time interval, the time periods for which you will supply data.

Event	Time Interval	I will supply data for the time interval:
A	28 Jan. 1983 0400-1100 UT	NOAA/TIROS Particle data. Magnetic field data from GOES + ground
B	25 Mar. 1983 0500-1400 UT	"
C	26 Mar. 1983 0000-0600 UT	"
D	29 Jan. 1983 0500-1400 UT	"
E	4 June 1983 0500-1000 UT	"
F	27-28 June 1983 1500-0300 UT	"

6. I will follow the attached CDB Guidelines in submitting the following data sets:

IDENTIFICATION Spacecraft/ Ground Station	EXPERIMENT IDENTIFICATION	PRINCIPAL INVESTIGATOR	NO. OF PARAM-EMETERS FOR CDB	TOTAL DATA POINTS FOR CDB	Used Previously in CDAW No.____ (is format identical?)

7. Data Averaging: In consideration of the size of the resulting database and to ensure that all data can be loaded, it is suggested that the maximum (highest) time resolution be 1-minute data, and higher resolution data be loaded where appropriate. NSSDC would prefer to receive your data with the time resolution that you normally have or use and will perform averages to your specifications. (See enclosed Guidelines page 1, with particular references to items 3, 4, and 6.)

_____ I will want NSSDC to perform time averaging and will enclose my specifications with the data.

✓ I want my data set(s) to be loaded without any averaging; if so, my basic time resolution is variable.

8. Data Manipulation: If you wish to have special data manipulation functions or subroutines added to the system that are extensive and may be impractical to construct in real time, these should be received as soon as possible (preferably in FORTRAN).

I ~~will~~ _____ will not ✓ be submitting data manipulation code for incorporation into the system. These will be sent by _____ (date).

9. I suggest that a special effort be made to obtain the following data sets:

_____

_____

10. To assist NSSDC in planning support and future development for CDAW-8 please complete this survey:

Remote access via: SPAN ____ TELENET ✓ Modem ____ Other _____

Type(s) of terminal available: (e.g., TEKTRONIX 4014, VT100 with graphics board, VT240)

Tektronix 4014

Type of PC/Software Communications Package you might use for access to CDAW system: (e.g., MacIntosh/TEKALIKE,...)

IBM PC AT/

Graphics software available at local node: (e.g., TEMPLATE, NCAR,...)

_____

Other commercial software packages you might use with CDAW data at your local node: (e.g., IDL,...)

_____

11. Please forward copies of the Workshop Announcement to any individual who you feel may be interested and ask them to submit this Questionnaire to NSSDC by March 10, 1986.

PLEASE RETURN THIS QUESTIONNAIRE TO:

Ms. Leah Gatewood
CDAW 8
Code 633
NASA Goddard Space Flight Center
Greenbelt, Maryland 20771
U.S.A.

Telephone: (301) 344-6818 FTS: 344-6818
SPAN Address: NSSDC::GATEWOOD TELEX: 89675 NSCOM GBLT

National Aeronautics and Space Administration

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (Please print.)

1. Spacecraft/Ground Station(s) GOES2 and GOES5	2. Experiment Name Space Environment Monitor	3. Data Set Name Magnetometer
4. Scientific Contact Herb Kroehl	5. Telephone/Telex No. (303) 497-6121 FTS 320 -6121	6. SPAN/TELENET Address
7. Address NOAA Code E/GC2, 325 Broadway		
8. City Boulder	9. State Colorado	10. Zip Code or Country 80303 USA
11. Programmer Contact Dan Wilkinson	12. Telephone/Telex No. (303) 497-6137 FTS 320-6137	13. SPAN/TELENET Address

SECTION II. TAPE DESCRIPTION

1. External Physical Label
   GOESM

2. No. of Tapes Submitted: 1

3. Tape Density: [ ] 800 bpi [X] 1600 bpi [ ] 6250 bpi

4. No. of Files (per tape): 5

5. No. of File Marks Between Files: 1

6. After Last File? 2

7. No. of Tracks: [ ] 7 [X] 9

8. Recording Parity:

9. Make and Model of Computer Used to Generate Tape: Data General M600

10. Tapes are written in: [ ] binary [X] ASCII [ ] EBCDIC [ ] Combination as shown [ ] Other; Specify _____

11. If binary, what floating point representation is used? (e.g., CDC 64 bit, or IBM 3081 32 bit) N/A

12. If binary, what integer representation is used? (e.g., 32 bit, 2's complement) N/A

13. No. of Physical Records (per file)

14. Are original tapes to be returned? [ ] Yes [X] No

15. Start and Stop Time of Each File (If more space is needed, please attach.)

SECTION III. LOGICAL AND PHYSICAL RECORD FORMAT (Please attach.)

SECTION IV. TO BE FILLED IN BY NSSDC ONLY

	CDB No.
Date Received	Tape No.
Programmer ID	CON Name
Data Base	Date Loaded

GOES MAGNETOMER DATA FOR CDAW-8

This magnetic tape contains 5 files of magnetometer observations from geostationary altitude. A twin fluxgate spinning sensor represents the Earth's magnetic field in three mutually perpendicular components: Hp, He, and Hn. Field strength changes as small as 0.2 ntesla can be resolved.

The magnetometer samples the field every .75 seconds, a "frame" of a four of these values is sent to the ground station together. For GOES2 data the high and low values in the frame are thrown out and remaing value closest to the previous frames value is recorded. For GOES5 data, the high and low values in the frame are thrown out and the average of the two remaining values is recorded. No record is kept of which value in the 3 second frame is used in this archive. This enters a variability in the exact time of the recorded observation.

Also, the time of these observations has not been corrected for the down link and prepocessing delay. The Space Environment Laboratory has not made an accurate determinaltion of this delay, but they say it is consistent and of the order of 1 - 5 seconds.

File	Satellite	Longitude	CDAW-8 Interval	Date	Day of Year	Time (UT)	# of records
0	GOES2	108.3W	A	Jan 28, 1983	28	0400-1059	8215
1	GOES2	107.8W	B	Mar 25, 1983	84	0500-1459	10356
2	GOES2	107.8W	C	Mar 26, 1983	85	0000-0645	7859
3	GOES5	75.0W	B	Mar 25, 1983	84	0500-1459	11695
4	GOES5	74.9W	C	Mar 26, 1983	85	0000-0659	8232

LOGICAL RECORD FORMAT

Column	Format	ID	Description
1- 3	I3	DAY	Day of year
4	1X		Blank
5- 6	I2	HOUR	Hour (UT)
7	A1		":"
8- 9	I2	MIN	Minute (UT)
10	A1		":"
11-12	I2	SEC	Second (UT)
13	1X		Blank
14-22	I9	SECY	Time in seconds on the year
23-34	E12.5	HP	Hp component of the magnetic field (ntesla), points northward, parallel to the satellite spin axis which is itself perpendicular to the satellite's orbital plane.
35-46	E12.5	HE	He component of the magnetic field (ntesla), points earthward, parallel to the satellite-Earth center line.
47-58	E12.5	HN	Hn component of the magnetic field (ntesla), points westward perpendicular to both Hp and He.
59-60	2X		Blank
61-70	I10	FLAG	Flag, see attached flag word formats for GOES-2 and GOES-5.

Physical tape records contain 30 logical records, 2100 bytes.

3. Flag Word Structure SMS 1, SMS 2, GOES 1, GOES 2, GOES 3

Flag word elements may be recovered by using the Modulus fuction. MOD(A,B) is defined as the whole remainder resulting from the division A/B. More specifically MOD(A,B) = A-INTEGER(A/B)$_*$B.

IFLAG = INTEGER(flag word)
"O" = MOD(IFLAG, 16)
"EEE" = MOD(IFLAG/16, 256)
"SSS" = MOD(IFLAG/4096, 1000)
"V" = IFLAG/4096/1000

"O" : Offset flag for Magnetomter data: 0 = no correction applied.
1 = correction has been applied.

"EEE" : Data processing error flags. This field keeps track of attempts to recover data lost due to processing errors. In practice the number of data values requiring recovery approaches zero. Error flags are therfore of little general interest.

"SSS" : 0 - 777(8) satellite command states. Those affecting the SEM are listed below. An extensive list of satellite commands can be obtained from the National Geophysical Data Center.

032 = X-ray position readout/standby	116 = X-ray sensor OFF	262 = Magnetometer ON
044 = Magnetometer calibrate START	117 = X-ray sensor CAL OFF	263 = Particle sensor ON
114 = Particle sensor OFF	260 = X-ray sensor CAL ON	333 = Particle sensor CAL on
115 = Magnetometer OFF	261 = X-ray sensor ON	345 = X-ray position fwd/rev
		346 = X-ray position "STEP"

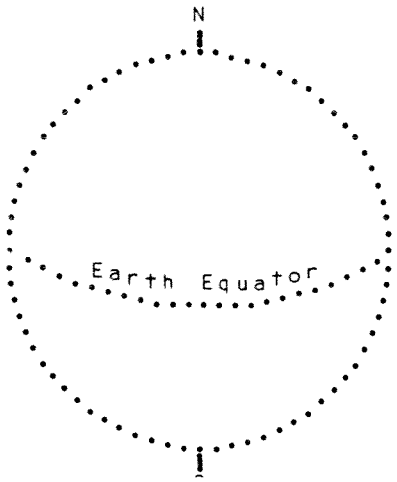
"V" : SMS - GOES archive version number in the range 0 - 9.

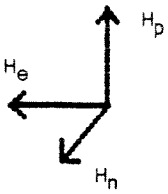
3. Flag Word Structure (CONT) GOES 4, GOES 5, GOES 6

The description below assumes bit 1 to be the least significant.

Bits	Magnetometer
1- 6	Hp 40-Gamma Gain Offset
7-8	Ht Gain Scale
9	Hp Gain Change
10	Ht Gain Change
11	Hp Corrected
12	Ht Corrected
13	Contamination
14	..... Instrument Calibration .....
15	..... Instrument Saturation .....
16-24	..... Satellite Command State, a list of these are avaiable upon request .....
25-29	..... Process Version Number .....
30-60	..... (Zero) .....

For all of the single bit fields, a 1 (one) indicates that the listed condition exists, a 0 (zero) indicates that the condition does not exist. Data during and 15 seconds following a gain change or calibration should be considered suspect, due to switching transients. Magnetometer contamination is usually due to a Reaction Control System burn.





```
N      N    GGGG    DDDD        CCC                                    ////////////////////////
NN     N   G    G   D   D      C   C                                   / NOAA / NESDIS / NGDC /
N N    N   G        D    D    C                                        /                      /
N  N   N   G        D    D    C                                        / NATIONAL GEOPHYSICAL /
N   N  N   G   GG   D    D    C                                        /     DATA CENTER      /
N    NN    G    G   D   D      C   C                                   /  BOULDER , COLORADO  /
N      N    GGGG    DDDD        CCC                                    ////////////////////////
```

TAPESCAN OF TAPE NUMBER ~~CDAW8~~ GOES

DENSITY 1600 BPI

9 TRACK

CODE ASCII

CDAW8 GOES MAGNETOMER: 1st & Last block each file

2100 BYTES FOLLOWING FROM BLOCK # 0 OF FILE 0

```
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 28  4: 0: 1  2347201.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0: 4  2347204.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0: 7  2347207.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:10  2347210.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0:13  2347213.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0:16  2347216.  .81539E+02  .36766E+02 -.98816E+01    21422209
 28  4: 0:19  2347219.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:22  2347222.  .81539E+02  .36708E+02 -.98985E+01    21422209
 28  4: 0:25  2347225.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:28  2347228.  .81539E+02  .36708E+02 -.98985E+01    21422209
 28  4: 0:31  2347231.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:35  2347235.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:38  2347238.  .81539E+02  .36708E+02 -.98985E+01    21422209
 28  4: 0:41  2347241.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:44  2347244.  .81539E+02  .36708E+02 -.98816E+01    21422209
 28  4: 0:47  2347247.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0:50  2347250.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0:53  2347253.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 0:56  2347256.  .81539E+02  .36766E+02 -.98816E+01    21422209
 28  4: 0:59  2347259.  .81539E+02  .36766E+02 -.97072E+01    21422209
 28  4: 1: 2  2347262.  .81539E+02  .36957E+02 -.97653E+01    21422209
 28  4: 1: 5  2347265.  .81539E+02  .37149E+02 -.97072E+01    21422209
 28  4: 1: 8  2347268.  .81539E+02  .37149E+02 -.97072E+01    21422209
 28  4: 1:11  2347271.  .81740E+02  .37149E+02 -.97072E+01    21422209
 28  4: 1:14  2347274.  .81539E+02  .37149E+02 -.97072E+01    21422209
 28  4: 1:17  2347277.  .81539E+02  .37207E+02 -.96902E+01    21422209
 28  4: 1:20  2347280.  .81539E+02  .37207E+02 -.96902E+01    21422209
 28  4: 1:24  2347284.  .81539E+02  .37149E+02 -.97072E+01    21422209
 28  4: 1:27  2347287.  .81539E+02  .37149E+02 -.97072E+01    21422209
 28  4: 1:30  2347290.  .81740E+02  .37149E+02 -.97072E+01    21422209

*****************************************************************************************************************************************
*********     274 BLOCKS READ IN FILE      0
*****************************************************************************************************************************************
```

1750 BYTES FOLLOWING FROM BLOCK # 273 OF FILE 0

```
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 28 10:58:46  2372326.  .83542E+02  .45981E+02 -.69117E+01    21422209
 28 10:58:49  2372329.  .83542E+02  .45981E+02 -.71734E+01    21422209
 28 10:58:52  2372332.  .83542E+02  .45981E+02 -.71734E+01    21422209
 28 10:58:55  2372335.  .83542E+02  .45981E+02 -.69117E+01    21422209
 28 10:58:58  2372338.  .83542E+02  .45981E+02 -.69117E+01    21422209
 28 10:59: 1  2372341.  .83542E+02  .45981E+02 -.71734E+01    21422209
 28 10:59: 4  2372344.  .83743E+02  .45981E+02 -.69989E+01    21422209
 28 10:59: 7  2372347.  .83743E+02  .45590E+02 -.69117E+01    21422209
 28 10:59:11  2372351.  .83743E+02  .45981E+02 -.71734E+01    21422209
 28 10:59:14  2372354.  .83743E+02  .45981E+02 -.69989E+01    21422209
```

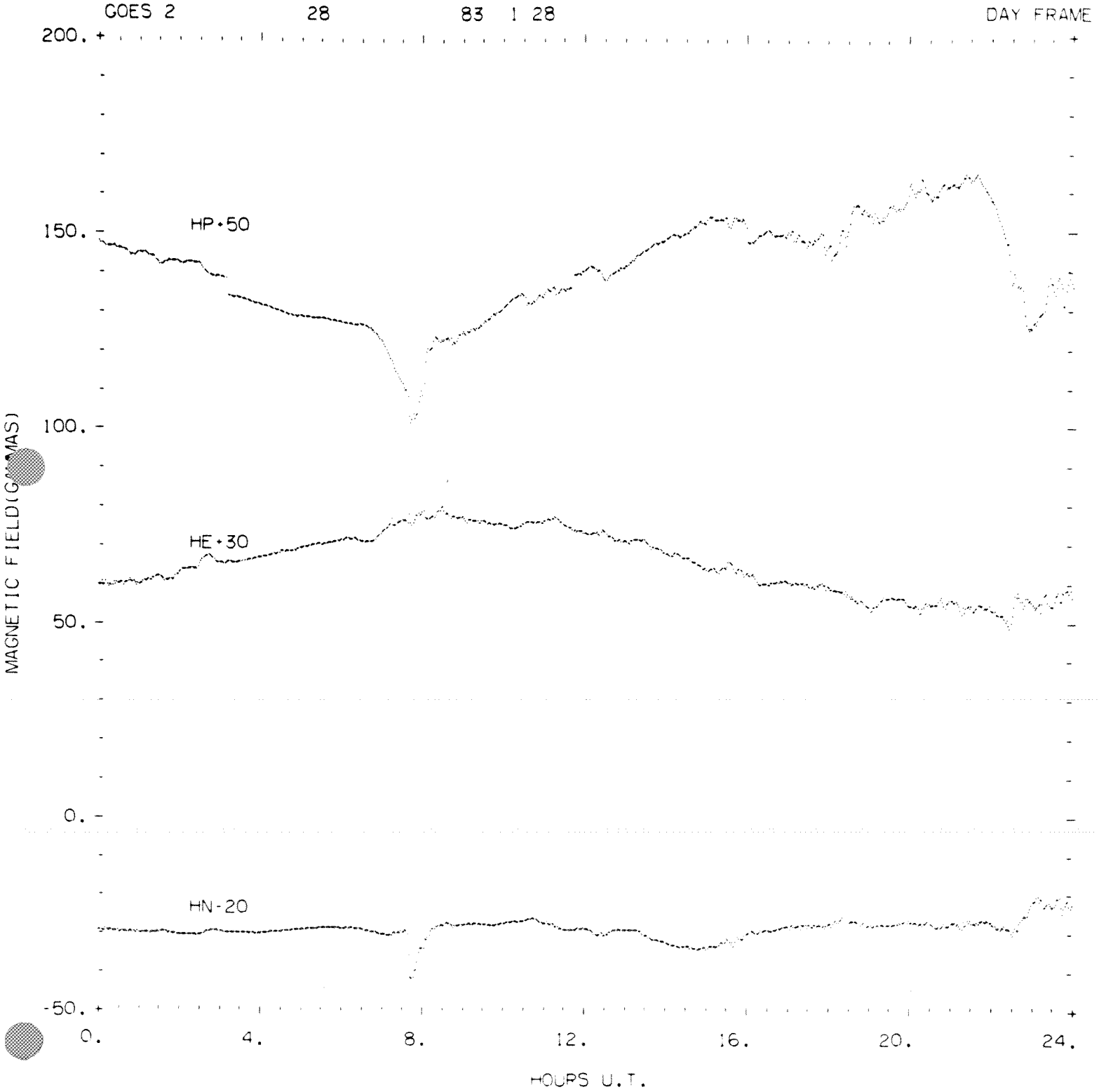
```
 28 10:59:23  2372363.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:26  2372366.  .83943E+02  .45893E+02 -.71734E+01     21422209
 28 10:59:29  2372369.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:32  2372372.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:35  2372375.  .83943E+02  .45981E+02 -.69117E+01     21422209
 28 10:59:38  2372378.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:41  2372381.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:44  2372384.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:47  2372387.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:50  2372390.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:53  2372393.  .83943E+02  .45981E+02 -.69989E+01     21422209
 28 10:59:57  2372397.  .84143E+02  .45981E+02 -.69989E+01     21422209
 28 11: 0: 0  2372400.  .83943E+02  .45981E+02 -.69989E+01     21422209


 END PROCESSING FILE #      0


 2100 BYTES FOLLOWING FROM BLOCK #     0  OF FILE      1
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 84  5: 0: 2  7189202.  .40137E+02  .95677E+02  .26078E+01     21139585
 84  5: 0: 5  7189205.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0: 8  7189208.  .40338E+02  .95677E+02  .26078E+01     21139585
 84  5: 0:12  7189212.  .40137E+02  .95677E+02  .26078E+01     21139585
 84  5: 0:15  7189215.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:18  7189218.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:21  7189221.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:24  7189224.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:27  7189227.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:30  7189230.  .40137E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:33  7189233.  .39937E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:36  7189236.  .39937E+02  .96464E+02  .24620E+01     21139585
 84  5: 0:39  7189239.  .39937E+02  .96318E+02  .16754E+01     21139585
 84  5: 0:42  7189242.  .39937E+02  .96318E+02  .16754E+01     21139585
 84  5: 0:45  7189245.  .39937E+02  .96318E+02  .16754E+01     21139585
 84  5: 0:48  7189248.  .39937E+02  .97251E+02  .20247E+01     21139585
 84  5: 0:51  7189251.  .39937E+02  .97105E+02  .20247E+01     21139585
 84  5: 0:54  7189254.  .39937E+02  .97251E+02  .20247E+01     21139585
 84  5: 0:57  7189257.  .39937E+02  .97105E+02  .20247E+01     21139585
 84  5: 1: 1  7189261.  .39937E+02  .97251E+02  .21704E+01     21139585
 84  5: 1: 4  7189264.  .39937E+02  .97105E+02  .15296E+01     21139585
 84  5: 1: 7  7189267.  .39937E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:10  7189270.  .39937E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:13  7189273.  .39737E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:16  7189276.  .39937E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:19  7189279.  .39937E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:22  7189282.  .39737E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:25  7189285.  .39737E+02  .97105E+02  .15296E+01     21139585
 84  5: 1:28  7189288.  .39737E+02  .97105E+02  .13838E+01     21139585
 84  5: 1:31  7189291.  .39737E+02  .97105E+02  .12381E+01     21139585


*****************************************************************************************************************************
*********     346 BLOCKS READ IN FILE       1
*****************************************************************************************************************************
```

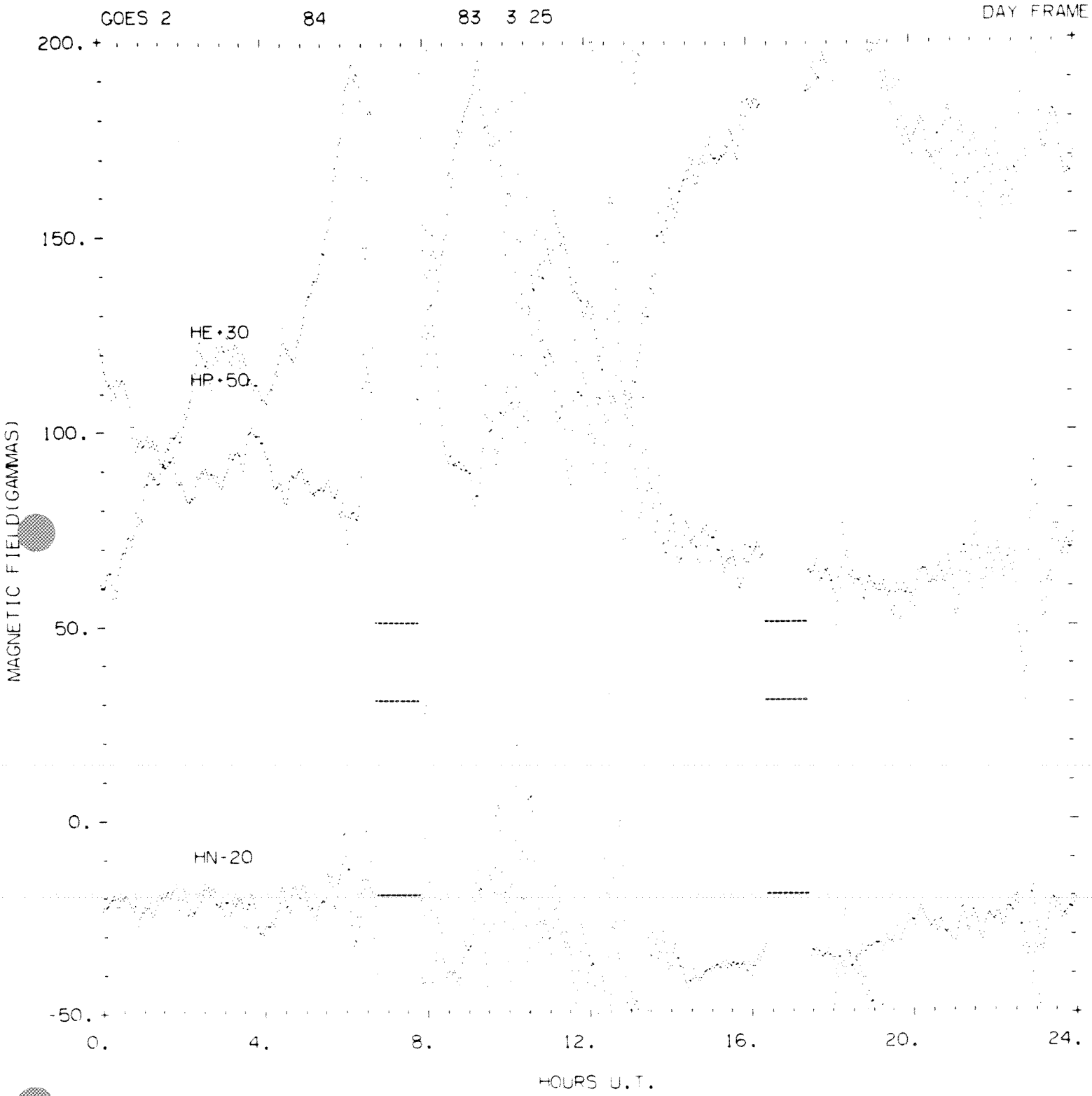
```
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 84 14:59:43  7225183.  .12100E+03  .41540E+02 -.19403E+02    21045377
 84 14:59:46  7225186.  .12100E+03  .41540E+02 -.19403E+02    21045377
 84 14:59:50  7225190.  .12100E+03  .41930E+02 -.19491E+02    21045377
 84 14:59:53  7225193.  .12120E+03  .42320E+02 -.19707E+02    21045377
 84 14:59:56  7225196.  .12160E+03  .42320E+02 -.19968E+02    21045377
 84 14:59:59  7225199.  .12180E+03  .42711E+02 -.19707E+02    21045377


 END PROCESSING FILE #     1


 2100 BYTES FOLLOWING FROM BLOCK #    0  OF FILE      2
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 85  0: 0: 1  7257601.  .11853E+03  .43817E+02 -.41384E+01    21045377
 85  0: 0: 4  7257604.  .11793E+03  .45116E+02 -.52357E+01    21045377
 85  0: 0: 7  7257607.  .11733E+03  .46090E+02 -.60424E+01    21045377
 85  0: 0:10  7257610.  .11733E+03  .45915E+02 -.63670E+01    21045377
 85  0: 0:13  7257613.  .11733E+03  .45840E+02 -.60593E+01    21045377
 85  0: 0:16  7257616.  .11733E+03  .45382E+02 -.46205E+01    21045377
 85  0: 0:19  7257619.  .11753E+03  .44891E+02 -.36055E+01    21045377
 85  0: 0:22  7257622.  .11793E+03  .43510E+02 -.44799E+01    21045377
 85  0: 0:26  7257626.  .11833E+03  .42587E+02 -.48214E+01    21045377
 85  0: 0:29  7257629.  .11853E+03  .42262E+02 -.44969E+01    21045377
 85  0: 0:32  7257632.  .11874E+03  .41936E+02 -.43806E+01    21045377
 85  0: 0:35  7257635.  .11894E+03  .41497E+02 -.43394E+01    21045377
 85  0: 0:38  7257638.  .11914E+03  .41422E+02 -.38816E+01    21045377
 85  0: 0:41  7257641.  .11894E+03  .41347E+02 -.33826E+01    21045377
 85  0: 0:44  7257644.  .11853E+03  .41272E+02 -.30580E+01    21045377
 85  0: 0:47  7257647.  .11793E+03  .41521E+02 -.29998E+01    21045377
 85  0: 0:50  7257650.  .11773E+03  .41712E+02 -.29417E+01    21045377
 85  0: 0:53  7257653.  .11753E+03  .41612E+02 -.20430E+01    21045377
 85  0: 0:56  7257656.  .11733E+03  .42119E+02 -.17184E+01    21045377
 85  0: 0:59  7257659.  .11693E+03  .42502E+02 -.18759E+01    21045377
 85  0: 1: 2  7257662.  .11673E+03  .43134E+02 -.18178E+01    21045377
 85  0: 1: 5  7257665.  .11673E+03  .43767E+02 -.16095E+01    21045377
 85  0: 1: 8  7257668.  .11653E+03  .44623E+02 -.10766E+01    21045377
 85  0: 1:12  7257672.  .11673E+03  .44399E+02 -.21836E+01    21045377
 85  0: 1:15  7257675.  .11733E+03  .42802E+02 -.32324E+01    21045377
 85  0: 1:18  7257678.  .11733E+03  .42362E+02 -.36151E+01    21045377
 85  0: 1:21  7257681.  .11733E+03  .42420E+02 -.34819E+01    21045377
 85  0: 1:24  7257684.  .11713E+03  .42553E+02 -.37314E+01    21045377
 85  0: 1:27  7257687.  .11693E+03  .42936E+02 -.38477E+01    21045377
 85  0: 1:30  7257690.  .11693E+03  .42512E+02 -.41892E+01    21045377

*****************************************************************************************************************************
********     262 BLOCKS READ IN FILE      2
*****************************************************************************************************************************


 2030 BYTES FOLLOWING FROM BLOCK #  261  OF FILE      2
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

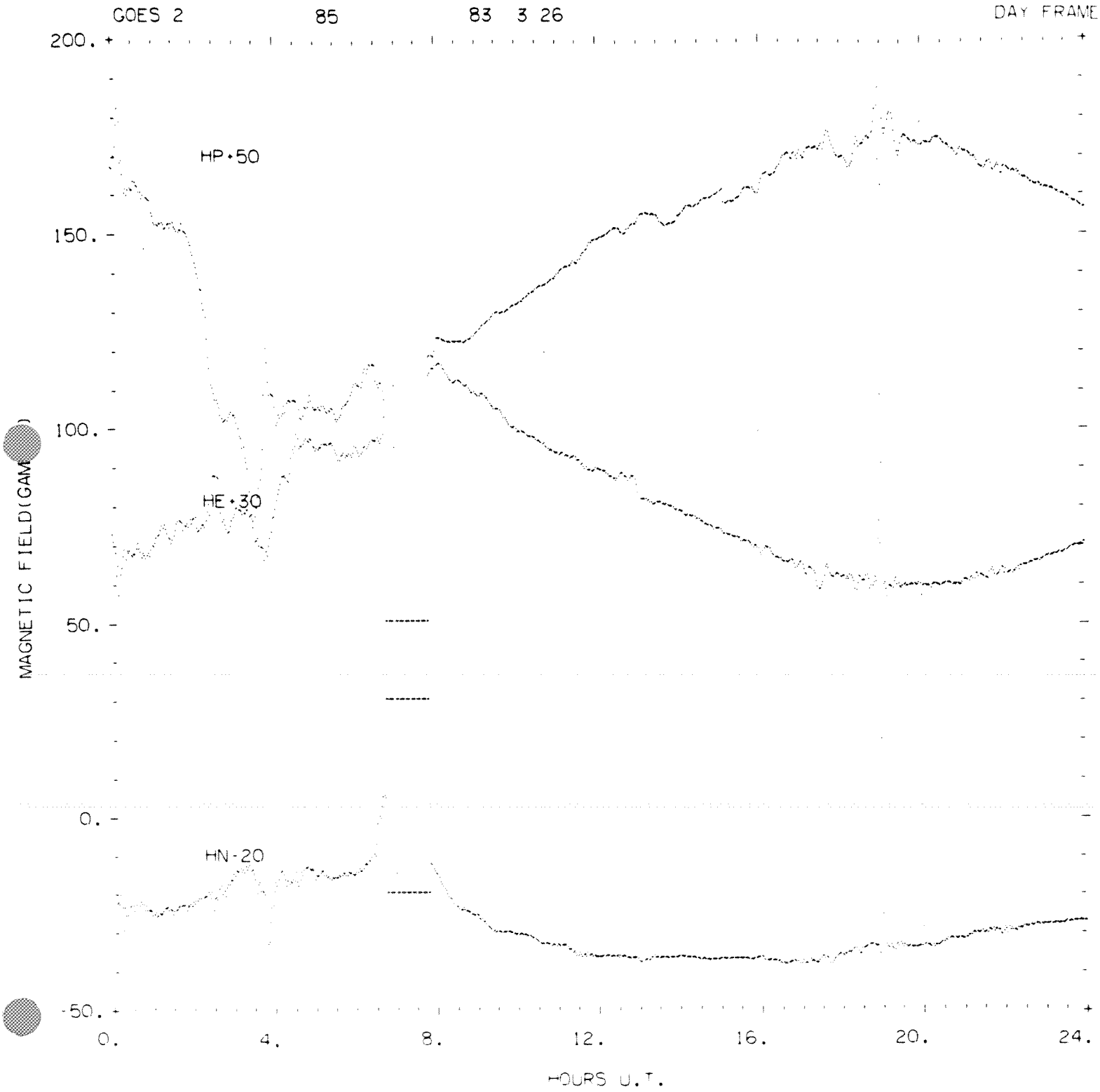
```
85  6:43:52  7281832.  .49151E+02  .79603E+02  .26063E+02    20480129
85  6:43:55  7281835.  .49351E+02  .79906E+02  .25585E+02    20480129
85  6:43:58  7281838.  .49351E+02  .79906E+02  .25585E+02    20480129
85  6:44: 1  7281841.  .49351E+02  .79906E+02  .25585E+02    20480129
85  6:44: 4  7281844.  .49551E+02  .79906E+02  .25498E+02    20480129
85  6:44: 7  7281847.  .49551E+02  .79906E+02  .25498E+02    20480129
85  6:44:10  7281850.  .49551E+02  .79906E+02  .25498E+02    20480129
85  6:44:13  7281853.  .49752E+02  .79818E+02  .25195E+02    20481153
85  6:44:16  7281856.  .49752E+02  .79818E+02  .25195E+02    20480145
85  6:44:26  7281866.  .50353E+02  .80209E+02  .25108E+02    20480129
85  6:44:28  7281868.  .50553E+02  .80209E+02  .25108E+02    20480129
85  6:44:31  7281871.  .50953E+02  .80209E+02  .25108E+02    20480129
85  6:44:34  7281874.  .51354E+02  .80209E+02  .25108E+02    20480129
85  6:44:38  7281878.  .51554E+02  .79818E+02  .25195E+02    20480129
85  6:44:41  7281881.  .51955E+02  .79818E+02  .25195E+02    20480129
85  6:44:44  7281884.  .52356E+02  .79818E+02  .25195E+02    20480129
85  6:44:47  7281887.  .52756E+02  .79818E+02  .25195E+02    20480129
85  6:44:50  7281890.  .53157E+02  .80209E+02  .25108E+02    20480129
85  6:44:53  7281893.  .53758E+02  .79731E+02  .24892E+02    20480129
85  6:44:56  7281896.  .54158E+02  .79341E+02  .24892E+02    20480129
85  6:44:59  7281899.  .54759E+02  .79341E+02  .24892E+02    20480129
85  6:45: 2  7281902.  .54959E+02  .79731E+02  .24805E+02    20480129
85  6:45: 5  7281905.  .55360E+02  .79731E+02  .24717E+02    20480129
85  6:45: 8  7281908.  .55761E+02  .79644E+02  .24414E+02    20480129
85  6:45:11  7281911.  .56362E+02  .79644E+02  .24414E+02    20480129
85  6:45:14  7281914.  .56762E+02  .79557E+02  .24024E+02    20480129
85  6:45:17  7281917.  .77273E+02  .61849E+02  .37967E+02    20480129
85  7:50:37  7285837.  .68580E+02  .83529E+02  .87903E+01    20480129


END PROCESSING FILE #     2


2100 BYTES FOLLOWING FROM BLOCK #    0  OF FILE     3
0         1         2         3         4         5         6         7         8         9         10        11        12        13
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
-----------------------------------------------------------------------------------------------------------------------------------------
84  5: 0: 1  7189201. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0: 4  7189204. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0: 7  7189207. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:10  7189210. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:13  7189213. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:16  7189216. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:19  7189219. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:22  7189222. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:26  7189226. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:29  7189229. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:32  7189232. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:35  7189235. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:38  7189238. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:41  7189241. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:44  7189244. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:47  7189247. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:50  7189250. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:53  7189253. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:56  7189256. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 0:59  7189259. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 1: 2  7189262. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 1: 5  7189265. -.10915E+04 -.32041E+02  .63431E+02   151011328
84  5: 1: 8  7189268. -.10915E+04 -.32041E+02  .63431E+02   151011328
```

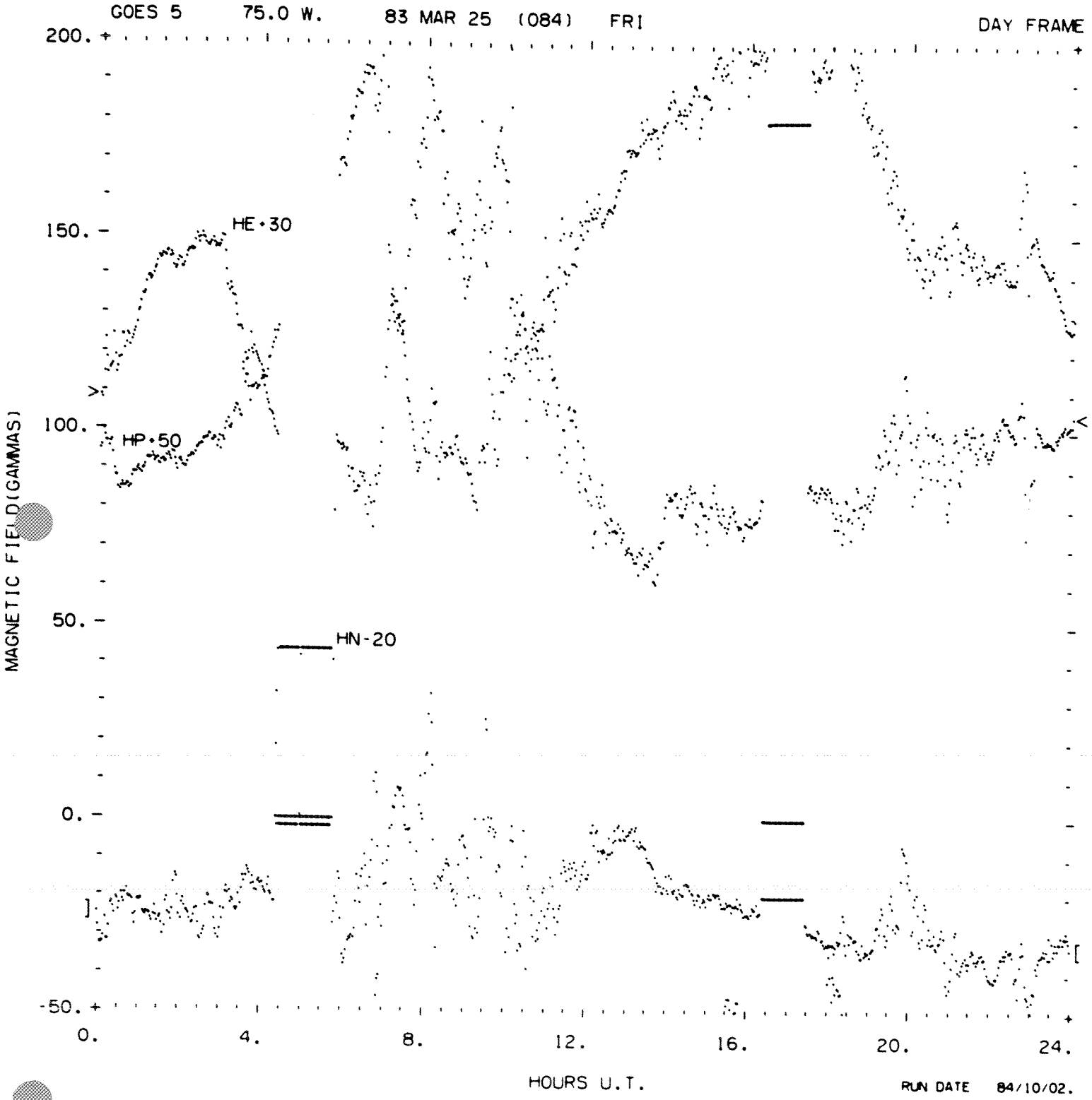
```
 84  5: 1:18  7189278. -.10915E+04 -.32041E+02  .63431E+02   151011328
 84  5: 1:21  7189281. -.10915E+04 -.32041E+02  .63431E+02   151011328
 84  5: 1:24  7189284. -.10915E+04 -.32041E+02  .63431E+02   151011328
 84  5: 1:27  7189287. -.10915E+04 -.32041E+02  .63431E+02   151011328
 84  5: 1:30  7189290. -.10915E+04 -.32041E+02  .63431E+02   151011328

*****************************************************************************************************************************
*********    390 BLOCKS READ IN FILE       3
*****************************************************************************************************************************


 1750 BYTES FOLLOWING FROM BLOCK #  389  OF FILE       3
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 84 14:58:44  7225124.  .13208E+03  .42021E+02 -.15436E+01   150994973
 84 14:58:47  7225127.  .13228E+03  .42212E+02 -.16063E+01   150994973
 84 14:58:51  7225131.  .13268E+03  .42021E+02 -.15436E+01   152600605
 84 14:58:54  7225134.  .13308E+03  .42212E+02 -.14154E+01   152600605
 84 14:58:57  7225137.  .13308E+03  .42146E+02 -.11617E+01   152600605
 84 14:59: 0  7225140.  .13348E+03  .42018E+02 -.90795E+00   152600605
 84 14:59: 3  7225143.  .13388E+03  .41953E+02 -.46328E+00   160993309
 84 14:59: 6  7225146.  .13428E+03  .41953E+02 -.46328E+00   150994973
 84 14:59: 9  7225149.  .13468E+03  .41762E+02 -.40050E+00   150994973
 84 14:59:12  7225152.  .13488E+03  .41762E+02 -.20956E+00   150994973
 84 14:59:15  7225155.  .13528E+03  .41625E+02 -.20956E+00   150994973
 84 14:59:18  7225158.  .13528E+03  .41762E+02 -.40050E+00   158105629
 84 14:59:21  7225161.  .13528E+03  .41953E+02 -.46328E+00   158105629
 84 14:59:24  7225164.  .13568E+03  .42081E+02 -.71701E+00   158105629
 84 14:59:27  7225167.  .13609E+03  .42526E+02 -.65162E+00   158105629
 84 14:59:30  7225170.  .13649E+03  .42717E+02 -.52345E+00   166498333
 84 14:59:33  7225173.  .13689E+03  .42842E+02 -.33251E+00   150994973
 84 14:59:36  7225176.  .13729E+03  .43159E+02 -.13400E-01   150994973
 84 14:59:39  7225179.  .13749E+03  .43412E+02  .11477E+00   150994973
 84 14:59:43  7225183.  .13789E+03  .43412E+02  .11477E+00   150994973
 84 14:59:46  7225186.  .13829E+03  .43412E+02  .11477E+00   150994973
 84 14:59:49  7225189.  .13869E+03  .43541E+02 -.13896E+00   150994973
 84 14:59:52  7225192.  .13929E+03  .43732E+02 -.20174E+00   150994973
 84 14:59:55  7225195.  .13969E+03  .43606E+02 -.52085E+00   150994973
 84 14:59:58  7225198.  .13989E+03  .43797E+02 -.64640E+00   150994973


 END PROCESSING FILE #      3


 2100 BYTES FOLLOWING FROM BLOCK #     0  OF FILE       4
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 85  0: 0: 2  7257602.  .78341E+02  .76439E+02 -.80328E+01   166498397
 85  0: 0: 5  7257605.  .78542E+02  .76756E+02 -.72962E+01   150995037
 85  0: 0: 8  7257608.  .78542E+02  .77074E+02 -.67182E+01   150995037
 85  0: 0:12  7257612.  .78341E+02  .77074E+02 -.65596E+01   150995037
 85  0: 0:15  7257615.  .78341E+02  .77074E+02 -.65596E+01   150995037
 85  0: 0:18  7257618.  .78141E+02  .77232E+02 -.61913E+01   150995037
 85  0: 0:21  7257621.  .77940E+02  .77442E+02 -.68768E+01   150995037
 85  0: 0:24  7257624.  .77940E+02  .77652E+02 -.72451E+01   150995037
```

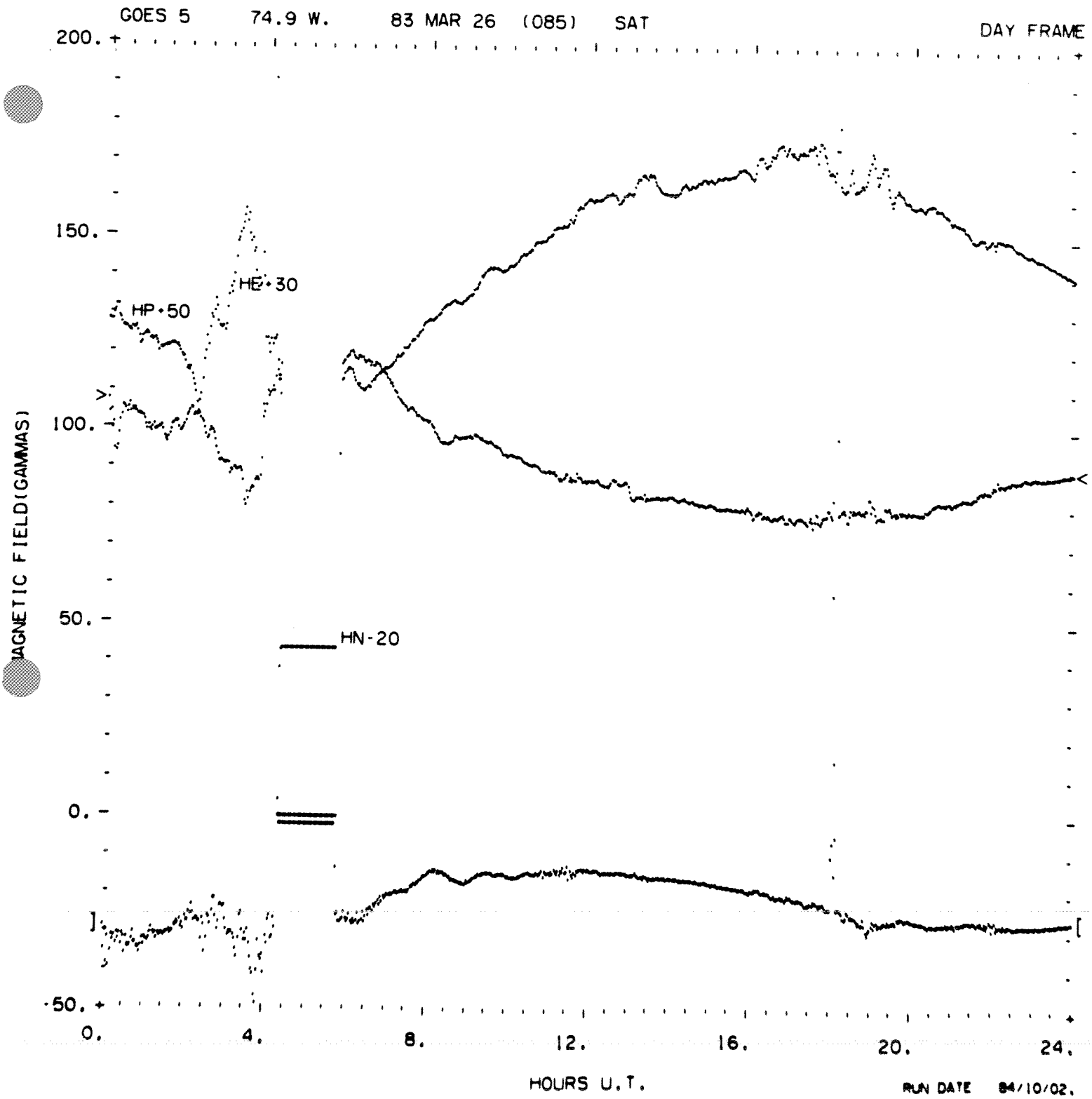
```
 85  0: 0:33  7257633.  .77940E+02  .78071E+02 -.82989E+01   150995037
 85  0: 0:36  7257636.  .77940E+02  .77912E+02 -.86672E+01   150995037
 85  0: 0:39  7257639.  .78141E+02  .77912E+02 -.86672E+01   150995037
 85  0: 0:42  7257642.  .78341E+02  .78122E+02 -.91941E+01   150995037
 85  0: 0:45  7257645.  .78341E+02  .78490E+02 -.93528E+01   150995037
 85  0: 0:48  7257648.  .78341E+02  .78490E+02 -.93528E+01   150995037
 85  0: 0:51  7257651.  .78542E+02  .78281E+02 -.88256E+01   150995037
 85  0: 0:54  7257654.  .78742E+02  .78281E+02 -.86672E+01   150995037
 85  0: 0:57  7257657.  .78742E+02  .78230E+02 -.79306E+01   150995037
 85  0: 1: 1  7257661.  .78742E+02  .78020E+02 -.74037E+01   150995037
 85  0: 1: 4  7257664.  .78742E+02  .78178E+02 -.70354E+01   150995037
 85  0: 1: 7  7257667.  .78542E+02  .78178E+02 -.70354E+01   150995037
 85  0: 1:10  7257670.  .78542E+02  .78178E+02 -.70354E+01   150995037
 85  0: 1:13  7257673.  .78542E+02  .78178E+02 -.70354E+01   150995037
 85  0: 1:16  7257676.  .78341E+02  .78178E+02 -.70354E+01   150995037
 85  0: 1:19  7257679.  .78341E+02  .78020E+02 -.74037E+01   150995037
 85  0: 1:22  7257682.  .78341E+02  .78020E+02 -.77720E+01   150995037
 85  0: 1:25  7257685.  .78341E+02  .78071E+02 -.82989E+01   150995037
 85  0: 1:28  7257688.  .78341E+02  .77912E+02 -.86672E+01   150995037
 85  0: 1:31  7257691.  .78341E+02  .77754E+02 -.90355E+01   150995037

*****************************************************************************************************************************
*********     275 BLOCKS READ IN FILE       4
*****************************************************************************************************************************


  840 BYTES FOLLOWING FROM BLOCK #  274  OF FILE       4
0         1         2         3         4         5         6         7         8         9         10        11        12        13
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
-----------------------------------------------------------------------------------------------------------------------------------------
 85  6:59:24  7282764.  .66110E+02  .82614E+02  .22297E+00   150995035
 85  6:59:27  7282767.  .66311E+02  .82614E+02  .22297E+00   150995035
 85  6:59:30  7282770.  .66311E+02  .82773E+02  .59127E+00   150995035
 85  6:59:33  7282773.  .66311E+02  .82773E+02  .59127E+00   150995035
 85  6:59:36  7282776.  .66511E+02  .82773E+02  .59127E+00   150995035
 85  6:59:39  7282779.  .66712E+02  .82614E+02  .22297E+00   150995035
 85  6:59:42  7282782.  .66712E+02  .82614E+02  .22297E+00   150995035
 85  6:59:45  7282785.  .66712E+02  .82614E+02  .22297E+00   150995035
 85  6:59:48  7282788.  .66511E+02  .82614E+02  .22297E+00   150995035
 85  6:59:52  7282792.  .66511E+02  .82614E+02  .22297E+00   158105691
 85  6:59:55  7282795.  .66511E+02  .82614E+02  .22297E+00   158105691
 85  6:59:58  7282798.  .66311E+02  .82614E+02  .22297E+00   158105691


 END PROCESSING FILE #     4
```


GOES 2
28
83 1 28
DAY FRAME
200.
150.
100.
50.
0.
-50.
HP+50
HE+30
HN-20
MAGNETIC FIELD(GAMMAS)
0.
4.
8.
12.
16.
20.
24.
HOURS U.T.


GOES 2
84
83 3 25
DAY FRAME
200.
150.
100.
50.
0.
-50.
HE+30
HP+50.
HN-20
MAGNETIC FIELD(GAMMAS)
0.
4.
8.
12.
16.
20.
24.
HOURS U.T.


GOES 2
85
83 3 26
DAY FRAME
200.
150.
100.
50.
0.
-50.
HP+50
HE+30
HN-20
MAGNETIC FIELD(GAM
0.
4.
8.
12.
16.
20.
24.
HOURS U.T.


GOES 5
75.0 W.
83 MAR 25 (084) FRI
DAY FRAME
200.
150.
100.
50.
0.
-50.
HE+30
HP+50
HN-20
MAGNETIC FIELD(GAMMAS)
0.
4.
8.
12.
16.
20.
24.
HOURS U.T.
RUN DATE 84/10/02.


GOES 5
74.9 W.
83 MAR 26 (085) SAT
DAY FRAME
200.
150.
100.
50.
0.
-50.
HE+30
HP+50
HN-20
MAGNETIC FIELD(GAMMAS)
0.
4.
8.
12.
16.
20.
24.
HOURS U.T.
RUN DATE 84/10/02.

D73797

```
$NOP
$NOP ************ GOUT-1 ************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 5 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   2100
 28  4: 0: 1  2347201.  .81539E+02  .36766E+02 -.97072E+01    21422209 28  4: 0: 4  2347204.  .8153
9E+02  .36766E+02 -.97072E+01    21422209 28  4: 0: 7  2347207.  .81539E+02  .36708E+02 -.98816E+01
    21422209 28  4: 0:10  2347210.  .81539E+02  .36766E+02 -.97072E+01    21422209 28  4: 0:13  234
7213.  .81539E+02  .36766E+02 -.97072E+01    21422209 28  4: 0:16  2347216.  .81539E+02  .36766E+02
 -.98816E+01    21422209 28  4: 0:19  2347219.  .81539E+02  .36708E+02 -.98816E+01    21422209 28
4: 0:22  2347222.  .81539E+02  .36708E+02 -.98985E+01    21422209 28  4: 0:25  2347225.  .81539E+02
  .36708E+02 -.98816E+01    21422209 28  4: 0:28  2347228.  .81539E+02  .36708E+02 -.98985E+01    2
1422209 28  4: 0:31  2347231.  .81539E+02  .36708E+02 -.98816E+01    21422209 28  4: 0:35  2347235.
  .81539E+02  .36708E+02 -.98816E+01    21422209 28  4: 0:38  2347238.  .81539E+02  .36708E+02 -.98
985E+01    21422209 28  4: 0:41  2347241.  .81539E+02  .36708E+02 -.98816E+01    21422209 28  4: 0:
44  2347244.  .81539E+02  .36708E+02 -.98816E+01    21422209 28  4: 0:47  2347247.  .81539E+02  .36
766E+02 -.97072E+01    21422209 28  4: 0:50  2347250.  .81539E+02  .36766E+02 -.97072E+01    214222
09 28  4: 0:53  2347253.  .81539E+02  .36766E+02 -.97072E+01    21422209 28  4: 0:56  2347256.  .81
539E+02  .36766E+02 -.98816E+01    21422209 28  4: 0:59  2347259.  .81539E+02  .36766E+02 -.97072E+
01    21422209 28  4: 1: 2  2347262.  .81539E+02  .36957E+02 -.97653E+01    21422209 28  4: 1: 5  2
347265.  .81539E+02  .37149E+02 -.97072E+01    21422209 28  4: 1: 8  2347268.  .81539E+02  .37149E+
02 -.97072E+01    21422209 28  4: 1:11  2347271.  .81740E+02  .37149E+02 -.97072E+01    21422209 28
  4: 1:14  2347274.  .81539E+02  .37149E+02 -.97072E+01    21422209 28  4: 1:17  2347277.  .81539E+
02  .37207E+02 -.96902E+01    21422209 28  4: 1:20  2347280.  .81539E+02  .37207E+02 -.96902E+01
 21422209 28  4: 1:24  2347284.  .81539E+02  .37149E+02 -.97072E+01    21422209 28  4: 1:27  234728
7.  .81539E+02  .37149E+02 -.97072E+01    21422209 28  4: 1:30  2347290.  .81740E+02  .37149E+02 -.
97072E+01    21422209

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   2100
 84  5: 0: 2  7189202.  .40137E+02  .95677E+02  .26078E+01    21139585 84  5: 0: 5  7189205.  .4013
7E+02  .96464E+02  .24620E+01    21139585 84  5: 0: 8  7189208.  .40338E+02  .95677E+02  .26078E+01
    21139585 84  5: 0:12  7189212.  .40137E+02  .95677E+02  .26078E+01    21139585 84  5: 0:15  718
9215.  .40137E+02  .96464E+02  .24620E+01    21139585 84  5: 0:18  7189218.  .40137E+02  .96464E+02
  .24620E+01    21139585 84  5: 0:21  7189221.  .40137E+02  .96464E+02  .24620E+01    21139585 84
5: 0:24  7189224.  .40137E+02  .96464E+02  .24620E+01    21139585 84  5: 0:27  7189227.  .40137E+02
  .96464E+02  .24620E+01    21139585 84  5: 0:30  7189230.  .40137E+02  .96464E+02  .24620E+01    2
1139585 84  5: 0:33  7189233.  .39937E+02  .96464E+02  .24620E+01    21139585 84  5: 0:36  7189236.
  .39937E+02  .96464E+02  .24620E+01    21139585 84  5: 0:39  7189239.  .39937E+02  .96318E+02  .16
754E+01    21139585 84  5: 0:42  7189242.  .39937E+02  .96318E+02  .16754E+01    21139585 84  5: 0:
45  7189245.  .39937E+02  .96318E+02  .16754E+01    21139585 84  5: 0:48  7189248.  .39937E+02  .97
251E+02  .20247E+01    21139585 84  5: 0:51  7189251.  .39937E+02  .97105E+02  .20247E+01    211395
85 84  5: 0:54  7189254.  .39937E+02  .97251E+02  .20247E+01    21139585 84  5: 0:57  7189257.  .39
937E+02  .97105E+02  .20247E+01    21139585 84  5: 1: 1  7189261.  .39937E+02  .97251E+02  .21704E+
01    21139585 84  5: 1: 4  7189264.  .39937E+02  .97105E+02  .15296E+01    21139585 84  5: 1: 7  7
189267.  .39937E+02  .97105E+02  .15296E+01    21139585 84  5: 1:10  7189270.  .39937E+02  .97105E+
02  .15296E+01    21139585 84  5: 1:13  7189273.  .39737E+02  .97105E+02  .15296E+01    21139585 84
 5: 1:16  7189276.  .39937E+02  .97105E+02  .15296E+01    21139585 84  5: 1:19  7189279.  .39937E+
02  .97105E+02  .15296E+01    21139585 84  5: 1:22  7189282.  .39737E+02  .97105E+02  .15296E+01
 21139585 84  5: 1:25  7189285.  .39737E+02  .97105E+02  .15296E+01    21139585 84  5: 1:28  718928
8.  .39737E+02  .97105E+02  .13838E+01    21139585 84  5: 1:31  7189291.  .39737E+02  .97105E+02  .
12381E+01    21139585

 TAPE NO.   1              FILE NO.   3
 RECORD   1                LENGTH   2100
 85  0: 0: 1  7257601.  .11853E+03  .43817E+02 -.41384E+01    21045377 85  0: 0: 4  7257604.  .1179
3E+03  .45116E+02 -.52357E+01    21045377 85  0: 0: 7  7257607.  .11733E+03  .46090E+02 -.60424E+01
    21045377 85  0: 0:10  7257610.  .11733E+03  .45915E+02 -.63670E+01    21045377 85  0: 0:13  725
7613.  .11733E+03  .45840E+02 -.60593E+01    21045377 85  0: 0:16  7257616.  .11733E+03  .45382E+02
 -.46205E+01    21045377 85  0: 0:19  7257619.  .11753E+03  .44891E+02 -.36055E+01    21045377 85
0: 0:22  7257622.  .11793E+03  .43510E+02 -.44799E+01    21045377 85  0: 0:26  7257626.  .11833E+03
```

.11894E+03 .41497E+02 -.43394E+01 21045377 85 0: 0:38 7257638. .11914E+03 .41422E+02 -.38
816E+01 21045377 85 0: 0:41 7257641. .11894E+03 .41347E+02 -.33826E+01 21045377 85 0: 0:
44 7257644. .11853E+03 .41272E+02 -.30580E+01 21045377 85 0: 0:47 7257647. .11793E+03 .41
521E+02 -.29998E+01 21045377 85 0: 0:50 7257650. .11773E+03 .41712E+02 -.29417E+01 210453
77 85 0: 0:53 7257653. .11753E+03 .41812E+02 -.20430E+01 21045377 85 0: 0:56 7257656. .11
733E+03 .42119E+02 -.17184E+01 21045377 85 0: 0:59 7257659. .11693E+03 .42502E+02 -.18759E+
01 21045377 85 0: 1: 2 7257662. .11673E+03 .43134E+02 -.18178E+01 21045377 85 0: 1: 5 7
257665. .11673E+03 .43767E+02 -.16095E+01 21045377 85 0: 1: 8 7257668. .11653E+03 .44823E+
02 -.10766E+01 21045377 85 0: 1:12 7257672. .11673E+03 .44399E+02 -.21836E+01 21045377 85
0: 1:15 7257675. .11733E+03 .42802E+02 -.32324E+01 21045377 85 0: 1:18 7257678. .11733E+
03 .42362E+02 -.36151E+01 21045377 85 0: 1:21 7257681. .11733E+03 .42420E+02 -.34819E+01
21045377 85 0: 1:24 7257684. .11713E+03 .42553E+02 -.37314E+01 21045377 85 0: 1:27 725768
7. .11693E+03 .42936E+02 -.38477E+01 21045377 85 0: 1:30 7257690. .11693E+03 .42512E+02 -.
41892E+01 21045377

TAPE NO. 1 FILE NO. 4
RECORD 1 LENGTH 2100
84 5: 0: 1 7189201. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0: 4 7189204. -.1091
5E+04 -.32041E+02 .63431E+02 151011328 84 5: 0: 7 7189207. -.10915E+04 -.32041E+02 .63431E+02
151011328 84 5: 0:10 7189210. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:13 718
9213. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:16 7189216. -.10915E+04 -.32041E+02
.63431E+02 151011328 84 5: 0:19 7189219. -.10915E+04 -.32041E+02 .63431E+02 151011328 84
5: 0:22 7189222. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:26 7189226. -.10915E+04
-.32041E+02 .63431E+02 151011328 84 5: 0:29 7189229. -.10915E+04 -.32041E+02 .63431E+02 15
1011328 84 5: 0:32 7189232. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:35 7189235.
-.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:38 7189238. -.10915E+04 -.32041E+02 .63
431E+02 151011328 84 5: 0:41 7189241. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:
44 7189244. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:47 7189247. -.10915E+04 -.32
041E+02 .63431E+02 151011328 84 5: 0:50 7189250. -.10915E+04 -.32041E+02 .63431E+02 1510113
28 84 5: 0:53 7189253. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:56 7189256. -.10
915E+04 -.32041E+02 .63431E+02 151011328 84 5: 0:59 7189259. -.10915E+04 -.32041E+02 .63431E+
02 151011328 84 5: 1: 2 7189262. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 1: 5 7
189265. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 1: 8 7189268. -.10915E+04 -.32041E+
02 .63431E+02 151011328 84 5: 1:11 7189271. -.10915E+04 -.32041E+02 .63431E+02 151011328 84
5: 1:14 7189274. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 1:18 7189278. -.10915E+
04 -.32041E+02 .63431E+02 151011328 84 5: 1:21 7189281. -.10915E+04 -.32041E+02 .63431E+02
151011328 84 5: 1:24 7189284. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 1:27 718928
7. -.10915E+04 -.32041E+02 .63431E+02 151011328 84 5: 1:30 7189290. -.10915E+04 -.32041E+02 .
63431E+02 151011328

TAPE NO. 1 FILE NO. 5
RECORD 1 LENGTH 2100
85 0: 0: 2 7257602. .78341E+02 .76439E+02 -.80328E+01 166498397 85 0: 0: 5 7257605. .7854
2E+02 .76756E+02 -.72962E+01 150995037 85 0: 0: 8 7257608. .78542E+02 .77074E+02 -.67182E+01
150995037 85 0: 0:12 7257612. .78341E+02 .77074E+02 -.65596E+01 150995037 85 0: 0:15 725
7615. .78341E+02 .77074E+02 -.65596E+01 150995037 85 0: 0:18 7257618. .78141E+02 .77232E+02
-.61913E+01 150995037 85 0: 0:21 7257621. .77940E+02 .77442E+02 -.68768E+01 150995037 85
0: 0:24 7257624. .77940E+02 .77652E+02 -.72451E+01 150995037 85 0: 0:27 7257627. .78141E+02
.78020E+02 -.74037E+01 150995037 85 0: 0:30 7257630. .77940E+02 .78230E+02 -.79306E+01 15
0995037 85 0: 0:33 7257633. .77940E+02 .78071E+02 -.82989E+01 150995037 85 0: 0:36 7257636.
.77940E+02 .77912E+02 -.86672E+01 150995037 85 0: 0:39 7257639. .78141E+02 .77912E+02 -.86
672E+01 150995037 85 0: 0:42 7257642. .78341E+02 .78122E+02 -.91941E+01 150995037 85 0: 0:
45 7257645. .78341E+02 .78490E+02 -.93528E+01 150995037 85 0: 0:48 7257648. .78341E+02 .78
490E+02 -.93528E+01 150995037 85 0: 0:51 7257651. .78542E+02 .78281E+02 -.88258E+01 1509950
37 85 0: 0:54 7257654. .78742E+02 .78281E+02 -.86672E+01 150995037 85 0: 0:57 7257657. .78
742E+02 .78230E+02 -.79306E+01 150995037 85 0: 1: 1 7257661. .78742E+02 .78020E+02 -.74037E+
01 150995037 85 0: 1: 4 7257664. .78742E+02 .78178E+02 -.70354E+01 150995037 85 0: 1: 7 7
257667. .78542E+02 .78178E+02 -.70354E+01 150995037 85 0: 1:10 7257670. .78542E+02 .78178E+
02 -.70354E+01 150995037 85 0: 1:13 7257673. .78542E+02 .78178E+02 -.70354E+01 150995037 85
0: 1:16 7257676. .78341E+02 .78178E+02 -.70354E+01 150995037 85 0: 1:19 7257679. .78341E+
02 .78020E+02 -.74037E+01 150995037 85 0: 1:22 7257682. .78341E+02 .78020E+02 -.77720E+01
150995037 85 0: 1:25 7257685. .78341E+02 .78071E+02 -.82989E+01 150995037 85 0: 1:28 725768
8. .78341E+02 .77912E+02 -.86672E+01 150995037 85 0: 1:31 7257691. .78341E+02 .77754E+02 -.
90355E+01 150995037

REQ. AGENT	RAND NO.	ACQ. AGENT
GLS	V0324	HKH

DE-2

VEFI DC AVERAGED & SPECTROMETER DATA

81-0708-02A SPMS-00104

THIS DATA SET CONSISTS OF ONE MAGNETIC DATA TAPE. THE TAPE IS 9 TRACK, 1600 BPI, BINARY AND CONTAINS 8 FILES OF DATA. EACH DATA FILE IS PRECEDED BY A HEADER FILE AND FOLLOWED BY A TRAILER FILE. THIS TAPE WAS CREATED ON A VAX 11/780 COMPUTER. THE D AND C NUMBER AND THE TIME INTERVALS AS FOLLOWS:

D#	C#	TIME INTERVAL
D-73892	C-25995	01/28/83 - 01/29/83

DATE: 8/12/86

NSSDC ID: 81-[illegible]-02A

P.I.: MAYNARD

CDAW DATA SET ENTRY

DATE RECEIVED: 8/12/86

DATE SENT BY: Carmen Liebrecht

PARTICIPANT: Dr. Thomas Aggson (GSFC)

MATERIAL RECEIVED: tape data sheet (DC file format, AC file format, Appendix A, B, C, D) Sample plots (5 sets)
1- 9trk, 1600 BPI tape

SATELLITE/NSDF NAME: DE-2

CDAW DATA SET MNEMONIC: D2 02

CDAW DATA SET NAME: Vector Electric field Instrument

AIM FILE DATA SET NAME: ~~DE-2 Vector Electric Field (VEFI)~~
VEFI DC AVG + SPECTROMTR DATA, CDAW8

CDAW NEW DATA SET ADDITIONS REPLACEMENTS

AIM FILE NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS: Original plots will be kept in folder.

Person to contact is Ms. Carmen Liebrecht
286-9342
286-7543

TIME COVERAGE: See attached

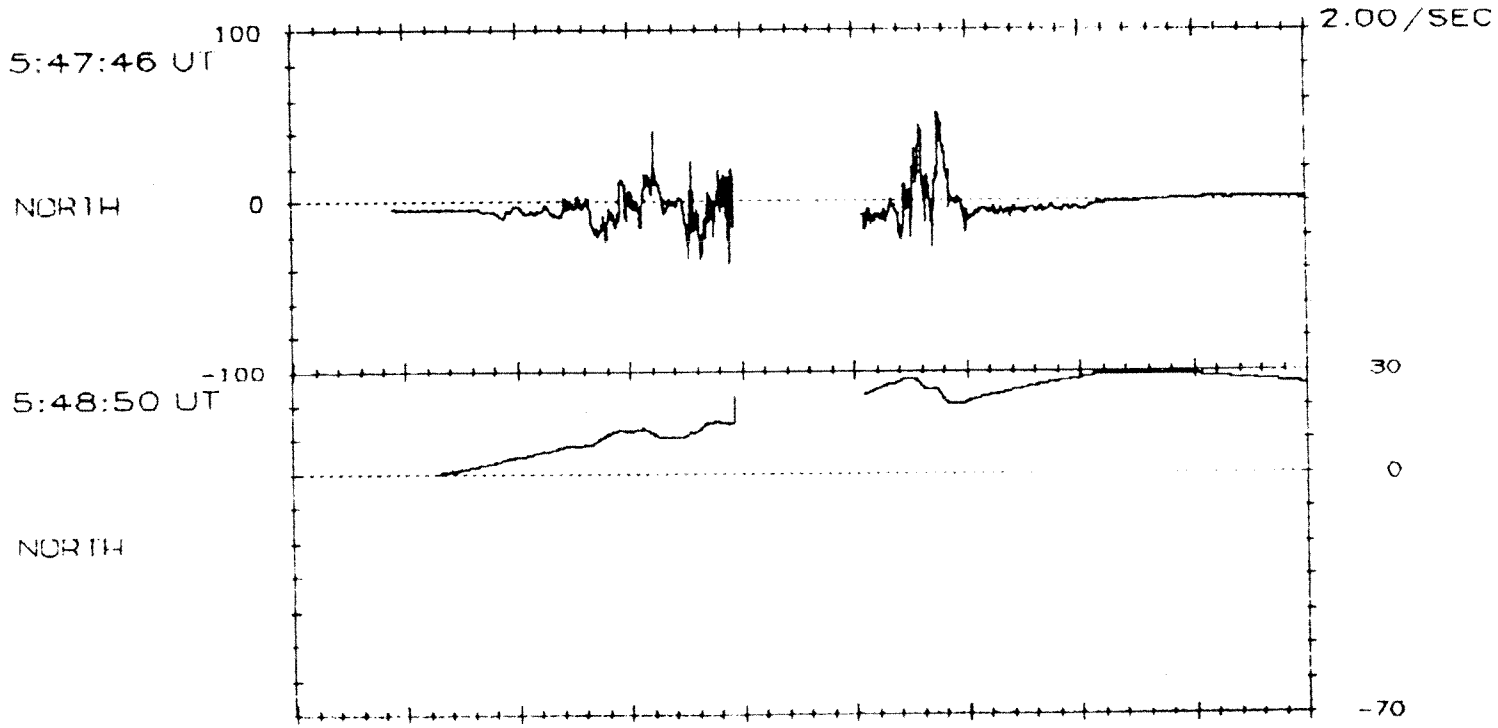
TAPES TO BE RETURNED TO:

RECEIVED BY:

PLOTS OF:

Ex AND INTEGRATRATED POTENTIAL IN SPC COORDINATES AFTER CONTACT POTENTIAL ADJUSTMENT.

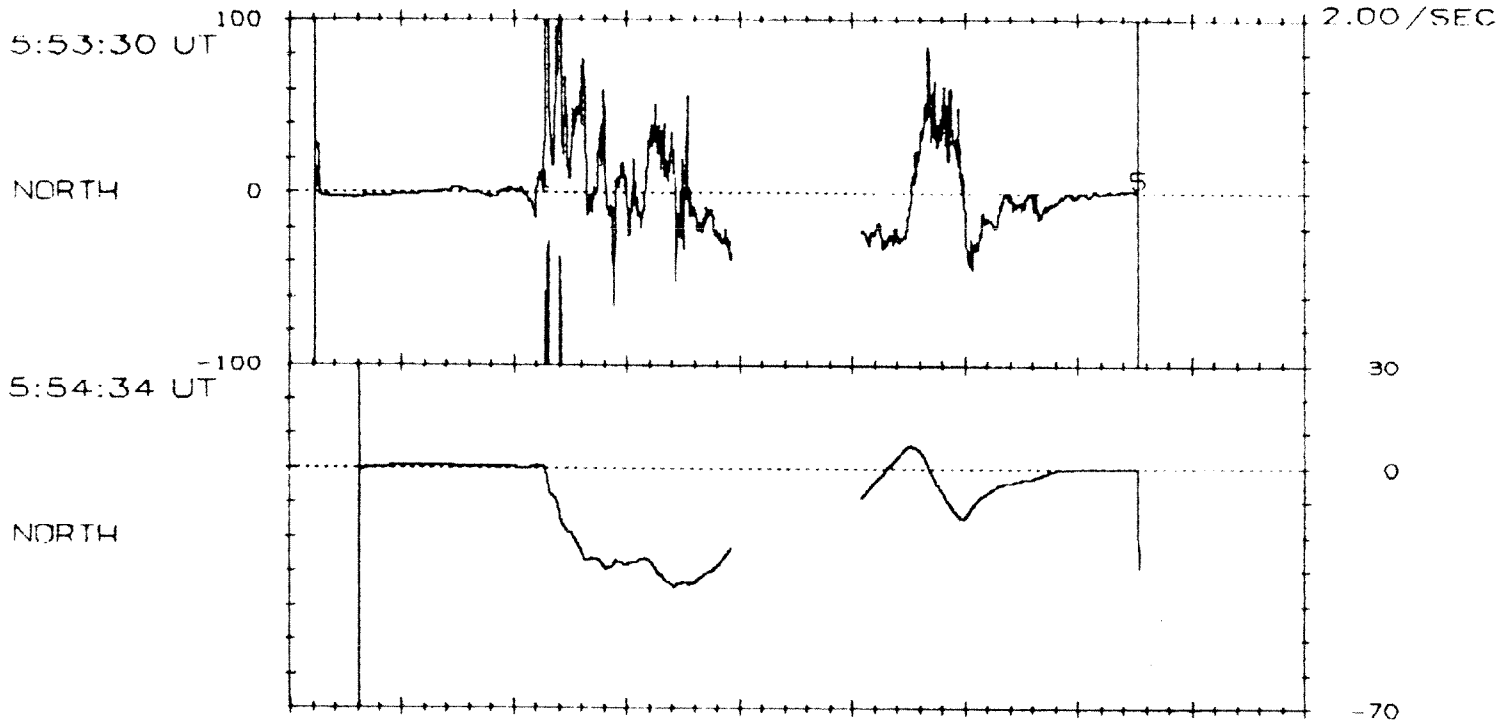
VEFI EX AND INT POT. DAY 28 28 JAN 1983 V 2 P16 JUL 1986



ILAT(DEG)	45.0	55.0	65.0	75.0	85.0	85.0	75.0	65.0	55.0	45.0
UT(MIN)		48.1	50.8	53.5			1.7	4.4	7.1	9.5
MLT(HOURS)		2.2	2.4	2.7			13.6	13.8	13.8	13.9

ECX= -5.70 ECY= -5.10 ECY= 0.00

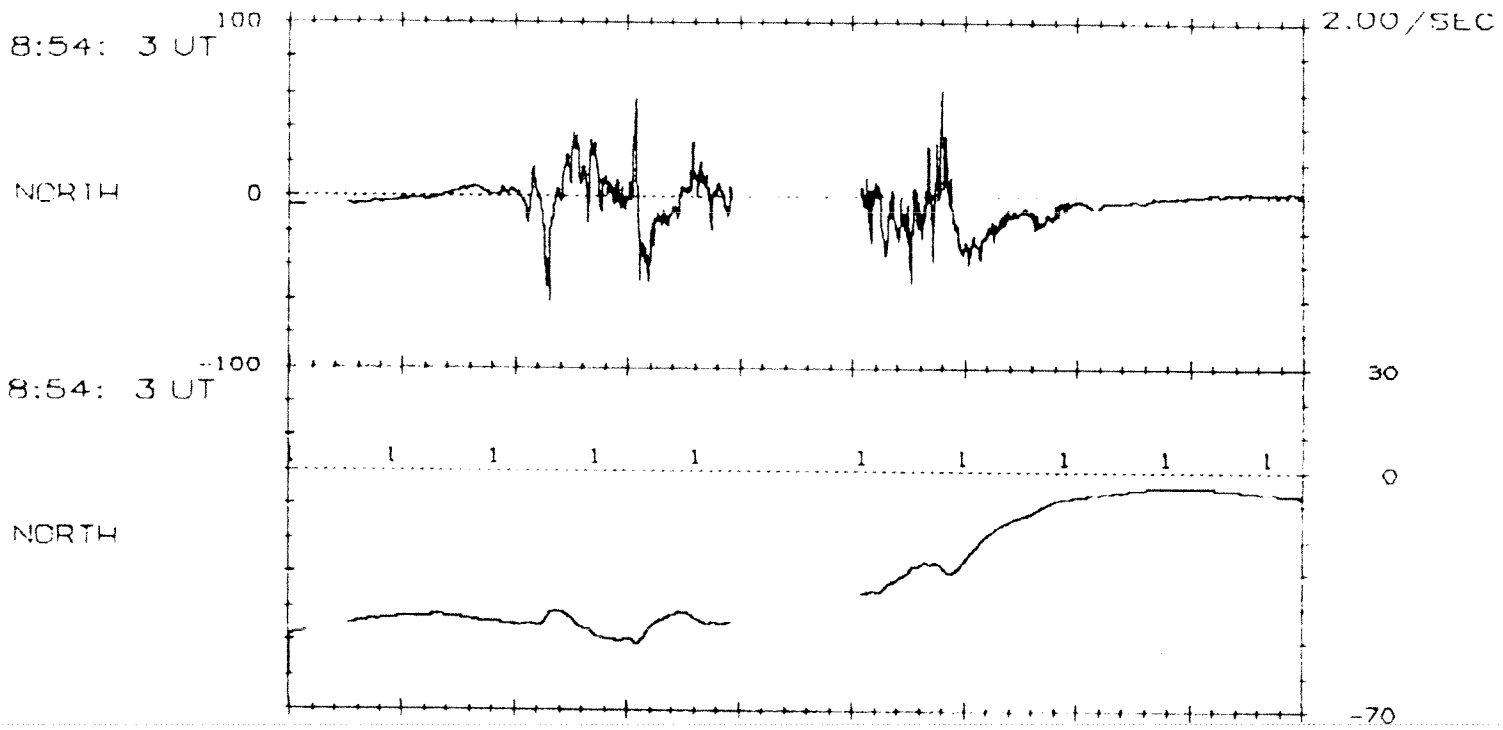
VEFI EX AND INT POT. DAY 29 29 JAN 1983 V 2 P 9 JUL 1986



ILAT(DEG)	45.0	55.0	65.0	75.0	85.0	85.0	75.0	65.0	55.0	45.0
UT(MIN)	52.8	55.6	58.4	1.1			9.4	12.2	14.8	17.3
MLT(HOURS)	2.0	2.1	2.2	2.4			13.6	13.8	13.8	13.9

ECX= -7.83 ECY= -7.23 ECY= 0.00

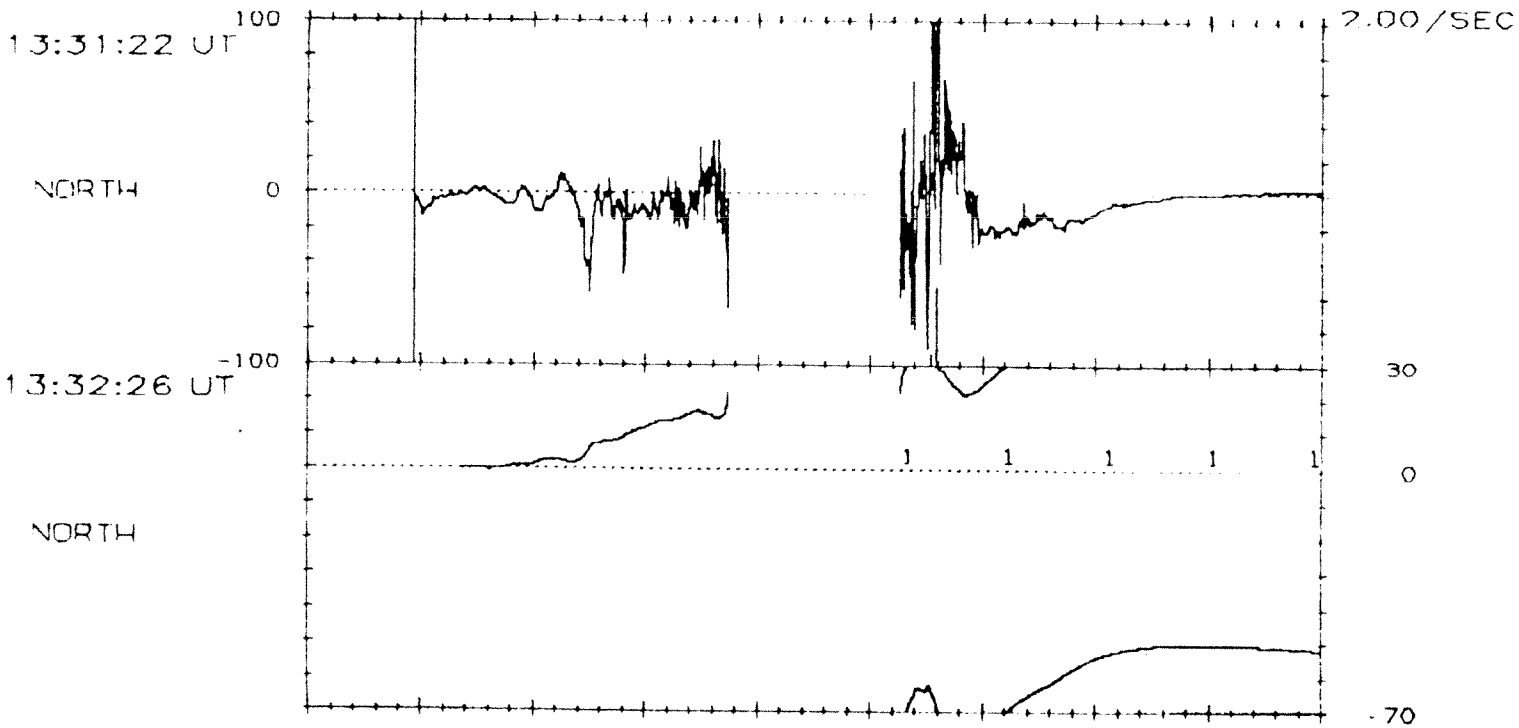
VEFI EX AND INT POT. DAY 29 29 JAN 1983 V 2 P16 JUL 1986



ILAT(DEG)	45.0	55.0	65.0	75.0	85.0	85.0	75.0	65.0	55.0	45.0
UT(MIN)			59.1	59.1			59.1	59.1	59.1	
MLT(HOURS)			1.4	1.4			1.4	1.4	1.4	

ECX= -5.70 ECY= -5.10 ECY= 0.00

VEFI EX AND INT POT. DAY 29 29 JAN 1983 V 2 P16 JUL 1986



ILAT(DEG)	45.0	55.0	65.0	75.0	85.0	85.0	75.0	65.0	55.0	45.0
UT(MIN)	28.9	31.5	34.0	36.7			43.0	45.7	48.3	50.7
MLT(HOURS)	1.2	0.9	0.4	23.5			17.1	15.7	15.1	14.7

ECX= -3.90 ECY= -3.30 ECY= 0.00

TAPE CONTAINING VEFI DATA

TAPE LABEL: CDAW8

FILES ON THE TAPE

FILE #	FILE NAME	TIME PERIOD (YEARDAY, MILISECONDS)				
1	VDC83028A	83028	20857775 →	23753812	DCA	data
2	VAC83028A	"	"	"	AC	data
3	VDC83029A	83029	21025935 →	22521955	DCA	data
4	VAC83029A	"	"	"	AC	"
5	VDC83029B	83029	30409949 →	34914017	DCA	"
6	VAC83029B	"	"	"	AC	"
7	VDC83029C	83029	48490018 →	50002032	DCA	"
8	VAC83029C	"	"	"	AC	"

DCA indicates d.c. averaged data (1/2 second resolution)
AC indicates spectrometer data (1/2 or 1 second resolution depending on spectrometer mode, see Appendix D).

Data was extracted from the VEFI Mission Analysis Files (MAFs)

DCA data was modified using a contact potential adjustment program that adds a constant value to the data in spacecraft coordinates.

D.C. FILE FORMAT :

VAX UNFORMATTED RECORDS

RECORD LENGHT : 1026

BLOCKSIZE = 32768

ORGANIZATION = ' SEQUENTIAL'

FORM : ' UNFORMATTED'

RECORDTYPE = ' SEGMENTED'

RECORD 1 : Contains the MAF optional package, consists of 20 words (real) described in Appendix A

RECORDS 2 TO n : WORD1 (Integer) : start. Date of the record
WORD2 (Integer) : start Time of the record
WORDS 3 → 1026 (Real) : A (128,8) array containing 128 data points, each point has 8 values as described in appendix B.

A.C. FILE FORMAT

VAX UNFORMATTED RECORDS

RECORD LENGH : 396

BLOCKSIZE : 32768

ORGANIZATION : 'SEQUENTIAL'

FORM : 'UNFORMATTED'

RECORDTYPE : 'SEGMENTED'

RECORD 1 : Contains the NAF optional package, consists of 20 real words described in Appendix A

RECORDS 2 TO n : WORD1 (Integer) : Start date of the record
WORD2 (Integer) : Start time of the record
WORDS 3 → 12 (Real) : Record header described in Appendix C
WORDS 13 → 396 (Real) : A (16, 24) array containing 16 points, each point has 24 values as described in Appendix C

APPENDIX A - VEFI MAF FORMATS

1. Optional Key Packet (User-Defined Words) for all VEFI MAFS

Word #	Type*	Contents
1	F	Orbit #
2	F	Begin GEI Latitude of Pass
3	F	End GEI Latitude of Pass
4	F	Begin Invariant Latitude of Pass
5	F	End Invariant Latitude of Pass
6	F	Begin M.L.T. of Pass
7	F	End M.L.T. of Pass
8	B	Flags:

Bit #(numbered from left to right, 0-31)

0-1 orbit size: 0=1/4
1=1/2
2=full

2 spare

3 satellite direction:
0=latitude decreasing
1=latitude increasing

4-6 spare

*Type: F=floating point
B=binary
I=integer

		Bit # (continued)
		7 microfiche processing complete
		0=No
		1=Yes
		8-9 spare
		10 measured B=1, theoretical B=0
		11 0=no orthogonalization
		1=antennas orthogonalized
		12-15 orthogonalization matrix ID
		16-23 spare
		24-31 # points/record (vector)
9	F	Ecx, X-component of contact potential
10	F	Ecy, Y-component of contact potential
11	F	Ecz, Z-component of contact potential
12	F	Baseline, X
13	F	Baseline, Y
14	F	Baseline, Z
15	B	spare
16	B	spare
17	B	spare
18	B	spare
19	I	Date Processed
20	F	Time resolution/data point

APPENDIX B

2. Averaged Data MAF

Record Format: 128 data points/record (vector)
1/2 sec/data point
8 [redacted] words/data point

Word #	Type	Contents
ARRAY (I, 1) [redacted]	B	Flags: Bit #(numbered from left to right, 0-31) 0 1=>all fill; 0=>not all fill 1 fill qualifier:1=>from processing; 0=>TM fill 2-3 spare 4 Extra-resolution,X: 1=Yes,0=No 5 Extra-resolution,Y: 1=Yes,0=No 6 Extra-resolution,Z: 1=Yes,0=No 7 non-standard # of pts in X avg. 1=Yes; 0=No 8 non-standard # of pts in Y avg. 1=Yes; 0=No 9 non-standard # of pts in Z avg. 1=Yes; 0=No 10 sun/shadow,X 0=sun; 1=shadow 11 sun/shadow,Y 0=sun; 1=shadow 12 sun/shadow,Z 0=sun; 1=shadow 13-15 spare
ARRAY (I,2) [redacted]	F	Ex in S/C coordinates (1/2 sec. avg)
ARRAY (I,3) [redacted]	F	Ey in S/C coordinates (1/2 sec. avg)
ARRAY (I,4) [redacted]	F	Ez in S/C coordinates (1/2 sec. avg)

ARRAY (I,5)	F	Ex in TOPO coordinates
ARRAY (I,6)	F	Ey in TOPO coordinates
ARRAY (I,7)	F	Ez in TOPO coordinates
	F	[redacted]
	F	[redacted]
	F	[redacted]
ARRAY (I,8)	F	Potential, integrated along X-axis

APPENDIX C

5. AC Data MAF

Record Format

Header

[redacted]	Type	Contents
ACHEAD(1) [redacted]	B	Flags: Bit #(numbered from left to right, 0-31) 0 Spec A gain: 0=low; 1=High 1 Spec B gain: 0=low; 1=High 2 Spec C gain: 0=low; 1=High 3-4 Spec A axis: 00=X; 10=Y; 11=Z 5-6 Spec B axis: 00=X; 10=Y; 11=Z 7-8 Spec C axis: 00=X; 10=Y; 11=Z 9-10 Spec A Mode: 00=Alternating; 01=Averages; 1X=Peak 11-12 Spec B Mode: 00=Alternating; 01=Averages; 1X=Peak 13-17 Spec C Mode: 00=Option 1; 01=Option 2; 10=Option 3; 11=Option 4 15-17 Word 126-127 identifier 18-30 spare 31 Mode, gain or axis is fill: 1=>fill; 0=>not fill
ACHEAD(2) [redacted]	F	CM+X (1st reading from 4 sec. Instrument Subcom)
ACHEAD(3) [redacted]	F	CM-X (1st reading from 4 sec. Instrument Subcom)
ACHEAD(4) [redacted]	F	CM+Y (1st reading from 4 sec. Instrument Subcom)
ACHEAD(5)	F	CM-Y (1st reading from 4 sec.

		Instrument Subcom)
ACHEAD(6)	F	CM+Z (1st reading from 4 sec. Instrument Subcom)
ACHEAD (7)	F	CM-Z (1st reading from 4 sec. Instrument Subcom)
ACHEAD (8)	F	Temperature (Elec.)
ACHEAD (9)	F	+Z Pre-Temp
ACHEAD (10)	F	-Z Pre-Temp

Data Point:

[redacted]	Type	Contents
ARRAY (I,1) [redacted]	B	Flags:

Bit #

0	1=>fill; 0=>not fill
1	fill qualifier: 0=>TM fill 1=>fill from processing
2	Spec C Z peak 1=>fill; 0=>not fill
3	Spec C Ch 3 1=>fill; 0=>not fill
4	Spec C Ch 4 1=>fill; 0=>not fill
5-31	spare

ARRAY (I,2) [redacted]	F	Spectrometer A Channel 1 Peak or Average
ARRAY (I,3) [redacted]	F	Spectrometer A Channel 2 Peak or Average
ARRAY (I,4) [redacted]	F	Spectrometer A Channel 3 Peak or Average
ARRAY (I,5) [redacted]	F	Spectrometer A Channel 4 Peak or Average
ARRAY (I,6) [redacted]	F	Spectrometer A Channel 5 Peak or

		Average
ARRAY (I,7)	F	Spectrometer A Channel 6 Peak or Average
ARRAY (I,8)	F	Spectrometer A Channel 7 Peak or Average
ARRAY (I,9)	F	Spectrometer A Channel 8 Peak or Average
ARRAY (I,10)	F	Spectrometer B Channel 1 Peak or Average
ARRAY (I,11)	F	Spectrometer B Channel 2 Peak or Average
ARRAY (I,12)	F	Spectrometer B Channel 3 Peak or Average
ARRAY (I,13)	F	Spectrometer B Channel 4 Peak or Average
ARRAY (I,14)	F	Spectrometer B Channel 5 Peak or Average
ARRAY (I,15)	F	Spectrometer B Channel 6 Peak or Average
ARRAY (I,16)	F	Spectrometer B Channel 7 Peak or Average
ARRAY (I,17)	F	Spectrometer B Channel 8 Peak or Average
ARRAY (I,18)	F	Spectrometer C Channel 1*
ARRAY (I,19)	F	Spectrometer C Channel 2*
ARRAY (I,20)	F	Spectrometer C Channel 3*
ARRAY (I,21)	F	Spectrometer C Channel 4*
ARRAY (I,22)	F	Spectrometer C X Peak
ARRAY (I,23)	F	Spectrometer C Y Peak
ARRAY (I,24)	F	Spectrometer C Z Peak*

*may be fill for some options

Spectrometers A and B operate in one of three modes: peak, average, or alternating mode. For peak mode, all readings are peaks; For average mode, all readings are averages; For alternating mode, peaks for channels 1 to 8 are followed by averages for channels 1 to 8.

CONTENTS ACCORDING TO MODE

PEAK	AVERAGE	ALTERNATING
Channel 1 Peak	Channel 1 Average	Channel 1 Peak
Channel 2 Peak	Channel 2 Average	Channel 2 Peak
Channel 3 Peak	Channel 3 Average	Channel 3 Peak
Channel 4 Peak	Channel 4 Average	Channel 4 Peak
Channel 5 Peak	Channel 5 Average	Channel 5 Peak
Channel 6 Peak	Channel 6 Average	Channel 6 Peak
Channel 7 Peak	Channel 7 Average	Channel 7 Peak
Channel 8 Peak	Channel 8 Average	Channel 8 Peak
Channel 1 Peak	Channel 1 Average	Channel 1 Average
Channel 2 Peak	Channel 2 Average	Channel 2 Average
Channel 3 Peak	Channel 3 Average	Channel 3 Average
Channel 4 Peak	Channel 4 Average	Channel 4 Average
Channel 5 Peak	Channel 5 Average	Channel 5 Average
Channel 6 Peak	Channel 6 Average	Channel 6 Average
Channel 7 Peak	Channel 7 Average	Channel 7 Average
Channel 8 Peak	Channel 8 Average	Channel 8 Average

TABLE 2.4 - CONTENTS OF MINOR FRAME WORD 77
ACCORDING TO MODE OF SPECTROMETER C

CONTENTS ACCORDING TO MODE

OPTION 1	OPTION 2	OPTION 3	OPTION 4
X Peak	X Peak	X Peak	X Peak
Y Peak	Y Peak	Y Peak	Y Peak
Z Peak	Common Mode+Z	Z Peak	Z Peak
Channel 1	Channel 1	Channel 1	Channel 1
Channel 2	Channel 2	Channel 2	X Peak
Channel 3	Channel 3	Channel 3	Y Peak
Channel 4	Channel 4	Channel 4	Z Peak
Channel 2	Common Mode+X	Common Mode+X	Channel 2
X Peak	Common Mode-X	Common Mode-X	X Peak
Y Peak	Common Mode+Y	Common Mode+Y	Y Peak
Z Peak	Common Mode-Y	Common Mode-Y	Z Peak
Channel 1	Channel 1	Common Mode+Z	Channel 3
Channel 2	Channel 2	Common Mode-Z	X Peak
Channel 3	Channel 3	ΔX	Y Peak
Channel 4	Channel 4	ΔY	Z Peak
Channel 2	Common Mode-Z	ΔZ	Channel 4

PROGRAM USED TO EXTRACT DATA FROM THE VEFI MAFs AND WRITE IT TO AN UNFORMATTED FILE

```
      CHARACTER FLNAME*13,TYPE*2
      COMMON/ERRCOM/NECODE(2)
      DIMENSION ACVEC(442),ACPT(16,24),DCVEC(128,11),DCPT(128,8),
     +          ACHEAD(10),KEYPKT(9),OPTPKT(20),IABSCI(2)
      EQUIVALENCE (ACVEC(1),ACHEAD(1)),(ACVEC(11),ACPT(1,1)),
     +            (DCVEC(1,1),DCPT(1,1))
      IUNIT=1
      NWRDS=0
      PRINT*,' PLEASE NETER OUTPUT FILE NAME'
      READ(5,'(A13)')FLNAME
      WRITE(6,'(1X,A13)')FLNAME
      PRINT*,' PLEASE ENTER MAF KEY IN THE FOLLOWING FORMAT:'
      PRINT*,'D YYDDD TTTTTTTT YYDDD TTTTTTTT S INST MAFWORDD'
      READ(5,100)KEYPKT
      WRITE(6,101)KEYPKT
100   FORMAT(A1,1X,2(I5,1X,I8,1X),A1,1X,A4,1X,2A4)
101   FORMAT(1X,A1,1X,2(I5,1X,I8,1X),A1,1X,A4,1X,2A4)
      TYPE=FLNAME(2:3)
      IRECL=1026
      IF(TYPE.EQ.'AC')IRECL=396
      WRITE(6,'(I5)')IRECL
      OPEN(UNIT=4,FILE=FLNAME,RECL=ILREC,ORGANIZATION='SEQUENTIAL',
     +     FORM='UNFORMATTED',RECORDTYPE='SEGMENTED',
     +     STATUS='NEW',BLOCKSIZE=32768)
      IASPC=3
      IABSCI(1)=KEYPKT(2)
      IABSCI(2)=KEYPKT(3)

      OPENS THE MAF

    1 CALL MFROPN(IUNIT,KEYPKT,1,ISTAT)
      IF(ISTAT.EQ.0)GO TO 2
      PRINT*,' ERROR OPENING THE MAF, ISTAT=',ISTAT
      PRINT*,'                        ICODE=',NECODE(2)
      STOP

      READS OPTIONAL PACKET FROM THE MAF

    2 CALL MFDGPK(IUNIT,4,OPTPKT,ISTAT)
      IF(ISTAT.EQ.0)GO TO 3
      PRINT*,' ERROR GETTING OPTIONAL PACKET, ISTAT=',ISTAT
      PRINT*,'                                ICODE=',NECODE(2)
      STOP

      WRITES OPTIONAL PACKAGE IN OUTPUT FILE

    3 WRITE(4)OPTPKT

      READS THE MAF

      PRINT*,IUNIT,IASPC,IABSCI,NWDS,ISTAT
    4 IF(TYPE.EQ.'DC')CALL MFRVAR(IUNIT,IASPC,IABSCI,DCVEC,NWRDS,ISTAT)
      IF(TYPE.EQ.'AC')CALL MFRVAR(IUNIT,IASPC,IABSCI,ACVEC,NWRDS,ISTAT)
      PRINT*,IUNIT,IASPC,IABSCI,NWDS,ISTAT
      IASPC=2
      IF(ISTAT.EQ.0)GO TO 5
      IF(NECODE(2).EQ.14)GO TO 8
      PRINT*,' ERROR READING THE MAF, ISTAT=',ISTAT
      PRINT*,'                        ICODE=',NECODE(2)
      STOP
    5 IF(TYPE.EQ.'AC')GO TO 6

      INSERT INTEGRATED POTENTIAL IN POSITION 8 OF THE VECTOR
      (LMG COORDINATES IN POSITIONS 8,9 AND 10 ARE NOT PASSED
       TO THE OUTPUT FILE)

      DO 7 I=1,128
```

```
      DCPT(I,[illegible]DCVEC(I,11)
    7 CONTINUE
      WRITE(4)IABSCI,DCPT
      IF(TYPE.EQ.'AC')WRITE(4)IABSCI,ACHEAD,ACPT
      WRITE(6,*)IABSCI
      GO TO 4
    6 WRITE(4)IABSCI,ACHEAD,ACPT
      WRITE(6,*)IABSCI
      GO TO 4

      END OF MAF, CLOSES IT

    8 CALL MFRCLS(IUNIT,Ø,ISTAT)
      IF(ISTAT.EQ.Ø)PRINT*,' PROCESS COMPLETED'
      IF(ISTAT.NE.O)PRINT*,' ERROR CLOSING MAF, ISTAT=',ISTAT
      IF(ISTAT.NE.Ø)PRINT*,'                    ICODE=',NECODE(2)
      STOP
      END
```

```
      CHARACTER FLNAME*13,TYPE*2
      DIMENSION ACVEC(384),DCVEC(1024),OPTPKT(20),ACHEAD(10),
     +          ACPT(16,24),DCPT(128,8)
      EQUIVALENCE (ACVEC(1),ACPT(1,1)),(DCVEC(1),DCPT(1,1))
      PRINT*,' PLEASE ENTER OUTPUT FILE NAME'
      READ(5,'(A13)')FLNAME
      WRITE(6,'(1X,A13)')FLNAME
      TYPE=FLNAME(2:3)
      IRECL=1024
      IF(TYPE.EQ.'AC')IRECL=396
      WRITE(6,'(I5)')IRECL
      OPEN(UNIT=4,FILE=FLNAME,RECL=ILREC,ORGANIZATION='SEQUENTIAL',
     +     FORM='UNFORMATTED',RECORDTYPE='SEGMENTED',
     +     STATUS='OLD',BLOCKSIZE=32768)
      READ(4)OPTPKT
      WRITE(8,*)OPTPKT
00    FORMAT(' OPTIONAL PACKAGE:'/10F8.2/10F8.2//)
      PRINT*,' ENTER DAY AND TIME(MSCS) TO BE READ'
      ACCEPT*,IDAY,ITIME
 1    IF(TYPE.EQ.'AC')READ(4)ID,IT,ACHEAD,ACVEC
      IF(TYPE.EQ.'DC')READ(4)ID,IT,DCVEC
      IF(ID.NE.IDAY.OR.IT.LT.ITIME)GO TO 1
      WRITE(8,*)ID,IT
      IF(TYPE.EQ.'AC')GO TO 2
      WRITE(8,110)((DCPT(I,J),J=1,8),I=1,128)
10    FORMAT(8F10.4/)
      STOP
 2    WRITE(8,*)ACHEAD
      WRITE(8,120)((ACPT(I,J),J=1,24),I=1,16)
20    FORMAT(8F10.4)
      STOP
      END
```

PROGRAM TO READ THE OUTPUT FILE AND PRINT OUT THE VALUES TO COMPARE TO THE VALUES OF THE ORIGINAL VEFI MAF.

DUMP OF TAPE GAILSOU2

D73892

01/28/83 - 01/29/83

INPUT TAPE GAILSOU2ON HTO
DATA INPUT F9 NF 24 FL 24 2 0

FILE 1 RECORD 1 LENGTH 80BYTES

(0)	564F4C31	43444157	38202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(40)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202033

FILE 1 RECORD 2 LENGTH 80BYTES

(0)	48445231	56444338	33303238	412E4441	54202020	20434441	57382030	30303130	30303130	30303130
(40)	31203836	32313220	30303030	30203030	30303030	44454346	494C4531	31412020	20202020	20202020

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	5	5	80	0	0	0	0	0	0

FILE 2 RECORD 1 LENGTH 2048BYTES

(0)	30303836	03000047	00A44040	87D26DC0	70C75543	80BA8843	5A9D0C41	D0D86142	E9248000	1250B6C1
(40)	6666A3C1	34330000	0000AB42	3033AB42	3033AB42	30330000	00000000	00000000	00000000	00008150
(80)	0100FA44	00005E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(120)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(160)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(200)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(240)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(280)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(320)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(360)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(400)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(440)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(480)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(520)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(560)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(600)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(640)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(680)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(720)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(760)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(800)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(840)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(880)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(920)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(960)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1000)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1040)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1080)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1120)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1160)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1200)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1240)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1280)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1320)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1360)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1400)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1440)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1480)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1520)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1560)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1600)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1640)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1680)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1720)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1760)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1800)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E

```
( 1880)   5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E
( 1920)   5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E
( 1960)   5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E
( 2000)   5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E  5E5E5E5E
( 2040)   5E5E5E5E  5E5E5E5E
```

2048 83028 91081

```
FILE       2  RECORD       2  LENGTH     2048BYTES
(     0)   32313438  01005444  01000963  3E010000  38000000  00000000  00000000  00000000  00000000  00000000
(    40)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(    80)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   120)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   160)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   200)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   240)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   280)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   320)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   360)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   400)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   440)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   480)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(   520)   00000000  00008BC1  303D8CC1  EC168EC1  B28D8DC1  2ACB8EC1  74008CC1  6AEA8CC1  3C288DC1  EA038EC1
(   560)   F6838FC1  245F8FC1  9C428FC1  4A2690C1  2C5591C1  288491C1  726892C1  2AEA94C1  661993C1  2AAC93C1
(   600)   5C9194C1  CE6E93C1  7E5C93C1  8A4297C1  0C5B98C1  D23898C1  E01F98C1  B00697C1  E64795C1  983F95C1
(   640)   182795C1  4C1D95C1  4C0594C1  EAED94C1  CAD596C1  F25B97C1  B63C97C1  E8259AC1  1AEF9AC1  8ED89BC1
(   680)   F2669AC1  A0FE9AC1  ACE89BC1  14CB9BC1  26B59AC1  9AFA9BC1  068B9AC1  4C7E99C1  B27199C1  480498C1
(   720)   E0EF99C1  442E9AC1  B6B89BC1  D2499CC1  4A819DC1  7A659CC1  58AD9AC1  38AB9AC1  6EEA9DC1  EC1A9DC1
(   760)   A8089CC1  92F69CC1  C6E49CC1  CCD39CC1  F6C19DC1  E4A89DC1  22989CC1  D08E9EC1  FEC09FC1  96039EC1
(   800)   5EF39EC1  94E3A0C1  EC1DA1C1  0259A1C1  084AA3C1  36D0A3C1  28C1A3C1  0860A2C1  6A07A2C1  9E4BA4C1
(   840)   2CD2A6C1  540FA7C1  189FA8C1  4E89A8C1  F47BA8C1  E0C1AAC1  16F7AAC1  DCEAAAC1  E4DEAAC1  9AD2ABC1
(   880)   76BEABC1  F85FACC1  22F2ADC1  9C38ADC1  3E2EADC1  4423ADC1  2018ADC1  42B3ADC1  B8A8ACC1  3CF9ACC1
(   920)   8EEFABC1  8EEEACC1  9489ACC1  7ED3ACC1  F4C9ACC1  78C1ACC1  8AB9ACC1  94B0ACC1  98A8ABC1  EC2EAAC1
(   960)   9481A9C1  A2D4A9C1  AACDAAC1  70BEA9C1  D06CA9C1  F812A8C1  C014A7C1  AA16A7C1  CA10A7C1  78B0A7C1
(  1000)   F2A9A6C1  3CFFA6C1  6CFAA6C1  BAF5A6C1  F8F0A6C1  D2EBA6C1  64E7A6C1  D6E2A6C1  92DEA6C1  B8DAD940
(  1040)   D849D54F  F8C0D640  2018D140  0844D240  80E7D440  B08BD440  68E4D140  385ED840  E82DDC40  3867DC40
(  1080)   98C1DD40  F820D840  8053D340  2087D340  B8E4CD40  F8D0CB40  709BCA40  08B3CB40  0014CF40  3856CB40
(  1120)   00D8CC40  E83BCD40  60EACD40  E006CD40  186DCD40  A0CFCB40  68A4C440  804AC440  08B3C540  704DC540
(  1160)   48BCC640  5030C640  B0A1C040  589EBD40  6833BD40  70A6B840  A8F3B940  6868BC40  8874BB40  50A0BC40
(  1200)   6817C040  C86FC040  A8E8BE40  30CDBF40  E845BB40  F8E0B840  607EBA40  B84EBA40  88CCBC40  C094C340
(  1240)   5887C440  6809BF40  505EBB40  68FEBF40  A016C740  C056C640  A88FBE40  3009BE40  E88BBF40  0012BF40
(  1280)   9098C040  201FC040  58A5C540  400CC540  F895C240  083FB940  B8C0B940  1002B940  E08ABA40  F019BF40
(  1320)   78D C540  F886C640  8816BC40  0850BC40  B8E2BC40  E026B740  108EB140  48ACAF40  88AAB540  7066AF40
(  1360)   3088AC40  A83DAC40  B0D2AC40  C81EA340  A0AEA440  2047A440  90DEA540  1878A240  1832A440  38199E40
(  1400)   28409D40  A0929E40  40319E40  A0CE9F40  F86E9D40  E8789E40  001BA140  F051A140  18F49E40  B8B7A140
(  1440)   80EFA340  A8DEA440  3084A540  9029A540  28D1A640  0079A740  F021A240  B0E2A040  60F99F40  000E9F40
(  1480)   A8BBA440  2843A440  10F2AC40  0016B040  A0A4AD40  7873AE40  D825AC40  2840AC40  B8F4B040  E03CB040
(  1520)   90EFB140  C8A3B240  0059B340  280FB340  20C6B440  187EB540  C837B540  48F10000  00000000  00000000
(  1560)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1600)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1640)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1680)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1720)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1760)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1800)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1840)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1880)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1920)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1960)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2000)   00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2040)   00000000  00000000
```

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
2	133	133	2048	0	0	0	0	0	0

```
FILE       3  RECORD       1  LENGTH       80BYTES
```

(760)	033D7012	033D7012	033D7012	583DB0D0	033D7012	033D7012	033D7012	C33D18B8	033D7012	0F3DE804
(800)	033D7012	033D7012	033D7012	283DB03C	033D7012	033D7012	033D7012	B13D628C	033D7012	1D3DF4A7
(840)	033D7012	A23DA8DC	033D7012	023EFBB8	033D7012	063DCCA0	033D7012	223D8CB0	033D7012	033D7012
(880)	033D7012	033D7012	033D7012	D13D1CA1	033D7012	033D7012	033D7012	CE3D6AA6	033D7012	0A3E592C
(920)	033D7012	3E3D1C68	033D7012	2C3D74D3	033D7012	173D40E2	033D7012	033D7012	033D7012	B53D089C
(960)	033D7012	033D7012	033D7012	5D3D1084	033D7012	D23DC468	033D7012	163D18BA	033D7012	033D7012
(1000)	033D7012	033D7012	033D7012	033D7012	033D7012	4F3D5CBF	033D7012	033D7012	033D7012	033D7012
(1040)	033D7012	0C3E79C1	033D7012	033D7012	033D7012	2C3D8012	033D7012	3D3D8C6E	033D7012	033D7012
(1080)	033D7012	093DDC80	033D7012	033D7012	033D7012	033D7012	033D7012	E03D5826	033D7012	153DA076
(1120)	033D7012	9D3D2A1C	033D7012	B23D68C8	033D7012	033D7012	033D7012	2F3D74AA	033D7012	033D7012
(1160)	033D7012	973DF831	033D7012	F43D461B	033D7012	853D6010	033D7012	BD3D1012	033D7012	F43D461B
(1200)	033D7012	893DC661	033D7012	8D3D16D7	033D7012	973DF831	033D7012	BF3DE866	BF3DE866	F23D02E1
(1240)	3840695B	7B408822	8440C03E	804000E8	8440C03E	8440C03E	87408095	8440C03E	87408095	8A4048EC
(1280)	8740 8095	8A4048EC	8A4048EC	8D3E2015	933EF099	783E8344	E840405E	4C4130A0	EC41AE14	B0415269
(1320)	A94106C8	954136E4	614148 4	1D411C0C	16411440	61414804	844130E6	7C415834	31412070	0A3E951A
(1360)	2C3EFA42	143E991D	4D4 C89A	6240D417	B140B0DC	9D40206C	BF40107D	E140108E	AB40880C	7D404A69
(1400)	464 5EC6	46405EC6	46405EC6	32405649	1D4033CC	3F3FE866	3F3FE866	3F3FE866	553F00F9	4A3F70D8
(1440)	4C3F606F	573F28D5	553F882D	513F3034	4C3F606F	513FA8FF	473F8CAA	4E3F5006	4C3F606F	4B3FE8A3
(1480)	3F3FE866	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE
(1520)	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	00000000	00000000	00000000
(1560)	00000000	743C91FE	00000000	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE	00000000	743C91FE
(1600)	00000000	00000000	743C91FE	00000000	F43C90FE	743C91FE	743C91FE	743C91FE	743C91FE	743C91FE
(1640)	743C91FE	743C91FE	F43C90FE	F43C90FE	F43C90FE	743C91FE	743C91FE	F43C90FE	743C91FE	5E5E5E5E
(1680)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1720)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1760)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1800)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1840)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1880)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1920)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(1960)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(2000)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
(2040)	5E5E5E5E	5E5E5E5E								

FILE 23 RECORD 2 LENGTH 2048BYTES

(0)	31353930	03005544	010086F3	E6020000	003199C0	C09999C0	C09975C0	40C3D7C0	600A753F	00C175BF
(40)	00C48442	C04E3842	9B9D8D42	D8890000	00000000	00000000	00000000	00000000	00000000	00000000
(80)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00009C3D
(120)	9C96103D	2CE2DF3D	4CF3303D	90EEDF3D	4CF3433D	0886F63D	DCE7363D	84ECAE3E	A0CA093E	F941363E
(160)	DE65CB3D	AC6AA13D	F8C3663D	A4F3893D	F87B103D	2CE2033D	7012033D	7012033D	7012033D	7012033D
(200)	7012033D	7012963D	DA07033D	7012B63E	C07E733D	60BDE43D	5049033D	7012593D	7042033D	7012033D
(240)	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012043E	D5DE033D	7012AF3D
(280)	E43A033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D
(320)	7012033D	7012033D	7012033D	7012823D	EC07033D	70129E3D	D243033D	7012033D	7012033D	70125C3D
(360)	04C8033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	70121A3D
(400)	304C033D	7012083E	EBFF033D	7012033D	7012033D	70125C3D	B099033D	7012033D	7012033D	7012033D
(440)	7012033D	7012033D	7012033D	7012A53D	72CC033D	7012103D	14B0033D	70127D3E	B82A033D	7012033D
(480)	7012033D	7012A53D	72CC033D	7012343D	A4E2033D	7012033D	7012033D	7012033D	7012033D	7012123D
(520)	50F4033D	70124B3D	8403033D	70121D3E	FD46033D	7012123D	50F4033D	70122C3D	7CB9033D	7012273E
(560)	1FC7033D	7012023E	ACD62B3D	B4E2023E	ACD6373D	0C1E0B3E	9C71433D	5015193E	A36C4F3D	C0D4233E
(600)	E583563D	88833F3E	DABD643D	0088333E	B5E84F3D	C0D4193E	A36C4F3D	C0D4033D	70120C3D	9C22963D
(640)	9639033D	7012603D	44 1033D	7012773D	8009033D	7012633E	6FBC8D3D	F403C33D	1A06583D	68101C3D
(680)	1C76203D	D01A6F3D	901B033D	7012033D	7012033D	7012AB3D	E2DF033D	7012033D	7012033D	70123F3D
(720)	BC93033D	70124C3D	386F033D	7012033D	7012033D	7012C33D	18B8033D	70124C3D	386F033D	70129D3D
(760)	94CD033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D
(800)	7012033D	7012BE3D	0CB2033D	7012033D	7012033D	7012C83D	5E15033D	7012033D	7012033D	7012033D
(840)	7012033D	7012033D	7012033D	70129A3D	FE87033D	7012033D	7012033D	7012AA3D	4640033D	7012033D
(880)	7012033D	70121B3D	34A4033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012FF3D
(920)	E213033D	7012033D	7012033D	7012303D	90F4033D	7012033D	7012033D	7012033D	7012033D	7012033D
(960)	7012033D	7012053D	F82A033D	7012033D	7012033D	7012F73D	B8A6033D	7012033D	7012033D	70122C3D
(1000)	8012033D	7012493D	88F7033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D	7012033D
(1040)	7012033D	7012C43D	36FA033D	7012033D	7012033D	7012033D	7012033D	7012AD3D	6A19033D	7012803D
(1080)	B0E1033D	7012853D	6010033D	7012923D	5E71033D	7012AB3D	10CC033D	7012B13D	3A5F033D	7012C93D
(1120)	6E8A033D	7012AB3D	10CC033D	7012A13D	CE2A033D	70124D43	84C34D43	84C34D43	84C35343	A83D5843
(1160)	D8B75843	D8B75843	D8B76E43	E0316943	30268843	549E7843	ECE48343	6C487143	40396343	18AC5E43

```
(  1240)   57E9644   585FA044   E8858744   88255D44   8A753D44   A3850244   75F80844   204BF142   289D0843   68DD0843
(  1280)   68DD4343   40BE3943   C0C91343   F0911843   2CEC4E43   CC724E43   CC726343   E8DB9843   0CA0B843   84A3AD43
(  1320)   B4F79D43   F4F58843   549E8843   549EC141   34755241   E8176B41   40E32E41   A4348641   7A647B41   C4E83241
(  1360)   0CB1CE41   601D4441   A8A2B441   08CD8A41   869CE741   B26D7B41   C4E8C941   54E50742   1C1FCE41   601D743C
(  1400)   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C
(  1440)   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE0000   0000743C   91FE743C   91FE743C
(  1480)   91FE743C   91FE743C   91FE743C   91FE743C   91FE0000   0000743C   91FE743C   91FE743C   91FE0000   00000000
(  1520)   0000743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE0000   0000743C   91FEF43C
(  1560)   90FEF43C   90FE743C   91FE743C   91FE743C   91FE743C   91FE743C   91FE0000   00005E5E   5E5E5E5E   5E5E5E5E
(  1600)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1640)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1680)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1720)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1760)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1800)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1840)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1880)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1920)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  1960)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  2000)   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E   5E5E5E5E
(  2040)   5E5E5E5E   5E5E5E5E

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                  RECS.       INPUT          SIZE       PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
            23     151        151           2048        0      0       0      0       0      0

FILE      24  RECORD        1  LENGTH       80BYTES
(      0)   454F4631   56414338   33303239   432E4441   54202020   20434441   57382030   30303130   30303830   30303130
(     40)   30203836   32313220   30303030   30203030   30313531   44454346   494C4531   31412020   20202020   20202020

FILE      24  RECORD        2  LENGTH       80BYTES
(      0)   454F4632   44303230   34383031   35393020   20202020   20202020   20202020   20202020   20202020   4D202020
(     40)   20202020   20202020   20203030   20202020   20202020   20202020   20202020   20202020   20202020   20202020

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                  RECS.       INPUT          SIZE       PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
            24       4          4             80         0      0       0      0       0      0

  EOJ        DUMP STOPPED AFTER FILE   24        # OF PERMANENT READ ERRORS  0

 START TIME 08/14/86  22:40:19        STOP TIME 08/14/86  22:41:19
```

```
$$
$ASS IN HT1
$EXE TRACE RS
```

REQ. AGENT	RAND NO.	ACQ. AGENT
GLS	V0324	HKH

GMS-2

2-MINUTE AVERAGE COUNTS ELECTRON & PROTON

81-076A-02A SPHE-00483

THIS DATA SET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE IS 9 TRACK, 6250 BPI, BINARY AND CONTAINS 6 FILES OF DATA. THE TAPE WAS CREATED ON AN (IBM) HITAC M-230 COMPUTER. THE D AND C NUMBER AND THE TIME INTERVALS ARE AS FOLLOWS:

D#	C#	TIME INTERVALS
D-72896	C-25632	01/28/83-06/28/83

DATE Mar 24, 1986

NSSDC ID 81-076A-02A probably

We show T. Kohno as PI

CDAW DATA SET ENTRY

DATE RECEIVED: Mar. 20, 1986 CDB: 8

DATA SENT BY: Inuguroku ~~Nagi~~ nagai / Meteorological Res. Inst - Japan

MATERIAL RECIEVED: CDB-8 Quest. GMS Data Plot, GMS Data printout, GMS Data letter, Tape Data form, tape label printout, label format 1-tape (9-trk - unlabelled)

SATELLITE/NSDF NAME: 81-076A-02A

CDAW mnemonic suggested: GM22

DATA SET NAME: ~~GMS-2 2min Analog values~~ MS21

New AIM dataset: Name = 2-MIN_AVG_COUNTS, Electron_+_Proton

NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS: AIM BD apparently needs updating. Are these directional detectors? S/C was spinning. Is there angular sectoring?

TIME COVERAGE: Jan 28 '83 - June 28 '83 Note GMS data letter for Bad Data on file 4 & 6.

TAPES TO BE RETURNED TO:

COMPLETED BY: Leah Stetwood

March 11, 1986

T. Nagai
Meteorological Research Institute
Tsukuba, Ibaraki 305
Japan

GMS data

Energetic particle (electron + proton) flux
The sensor is designed to response 0.8 - 4 MeV protons.
But the data are contaminated by pile-up electrons.
Flux changes are physically meanigful.

Satellite Location
Geostationary orbit (6.6 Re), 140°E

Data
2-min average values
time is beginning of interval

File 1.	start	1983.	1. 28.	04:00:51 UT
	end	1983	1. 28.	10:58:06 UT
File 2.	start	1983.	1. 29.	05:01:36 UT
	end	1983.	1. 29.	13:58:59 UT
File 3.	start	1983.	3. 25.	05:02:02 UT
	end	1983.	3. 25.	13:59:24 UT
File 4.	start	1983.	3. 26.	00:00:08 UT
	end	1983.	3. 26.	05:58:23 UT
	bad data			00:35:05 - 00:48:12 UT
File 5	start	1983.	6. 4.	05:00:56 UT
	end	1983.	6. 4.	09:58:01 UT
File 6	start	1983.	6. 27.	15:00:28 UT
	end	1983.	6. 28.	02:59:09 UT
	bad data		6/28	00:37:10 - 00:48:05 UT

Tape
6 files, unlabelled, 9 track, created in binary on the HITAC M-230 (IBM)

DCB=(RECFM=F,LRECL=64,BLKSIZE=64)

WORD	TYPE	MEANING	COMMENTS
1	A*8	satellite name	GMS2
2	R*8	year	1983.0
3	R*8	month	1.0 or 3.0 or 6.0
4	R*8	day	
5	R*8	UT hour	
6	R*8	UT min	
7	R*8	UT sec	
8	R*8	particle flux	counts/sec

******** MT INFORMATION ********

LABEL FORMAT = 'NL'

DS.NO.	MAXBLKSIZE	MINBLKSIZE	BLKCOUNT	ERRORBLK NO.
1	64	64	192	
2	64	64	247	
3	64	64	247	
4	64	64	165	
5	64	64	137	
6	64	64	330	

TOTAL BLKCOUNT = 1318

******** END OF VOLUME ********

```
INPUT VOLUME : DDNAME=OMTOWNMT

BLOCK  CHAR.   S------------------  1------------------  2------------------   *S---------1---------2---------*

00001  00001   C7D4E2F240404040437B  F0000000000041100000  00000000421C00000000  *GMS2    .#0....................*
       00031   00004140000000000000  0000000000000004233  000000000000044677D31  *... .......................'.*
       00061   00000000                                                          *....*

00002  00001   C7D4E2F240404040437B  F0000000000041100000  00000000421C00000000  *GMS2    .#0....................*
       00031   00004140000000000000  4130000000000004120  000000000000004467A732  *... ........................*
       00061   00000000                                                          *....*

00003  00001   C7D4E2F240404040437B  F0000000000041100000  00000000421C00000000  *GMS2    .#0....................*
       00031   00004140000000000000  41500000000000041E0  000000000000004467D133  *... .......&................J.*
       00061   00000000                                                          *....*

00004  00001   C7D4E2F240404040437B  F0000000000041100000  00000000421C00000000  *GMS2    .#0....................*
       00031   00004140000000000000  41700000000000004219  000000000000044699F3A  *... ........................*
       00061   00000000                                                          *....*

00005  00001   C7D4E2F240404040437B  F0000000000041100000  00000000421C00000000  *GMS2    .#0....................*
       00031   00004140000000000000  41900000000000004224  000000000000004466D52F  *... .......................N.*
       00061   00000000                                                          *....*

END OF PRINT
JSF650I RETURN CODE WAS 000
```

GMS2	1983.00	1.00	28.00	4.00	0.0	51.00	26493.19
GMS2	1983.00	1.00	28.00	4.00	3.00	2.00	26535.20
GMS2	1983.00	1.00	28.00	4.00	5.00	14.00	26577.20
GMS2	1983.00	1.00	28.00	4.00	7.00	25.00	27039.23
GMS2	1983.00	1.00	28.00	4.00	9.00	36.00	26325.18
GMS2	1983.00	1.00	28.00	4.00	11.00	47.00	25947.16
GMS2	1983.00	1.00	28.00	4.00	13.00	58.00	26241.18
GMS2	1983.00	1.00	28.00	4.00	16.00	9.00	25947.16
GMS2	1983.00	1.00	28.00	4.00	18.00	20.00	26367.18
GMS2	1983.00	1.00	28.00	4.00	20.00	31.00	26451.19
GMS2	1983.00	1.00	28.00	4.00	22.00	42.00	26325.18
GMS2	1983.00	1.00	28.00	4.00	24.00	53.00	26451.19
GMS2	1983.00	1.00	28.00	4.00	27.00	4.00	26871.21
GMS2	1983.00	1.00	28.00	4.00	29.00	15.00	26493.19
GMS2	1983.00	1.00	28.00	4.00	31.00	26.00	26283.18
GMS2	1983.00	1.00	28.00	4.00	33.00	37.00	25779.14
GMS2	1983.00	1.00	28.00	4.00	35.00	48.00	25947.16
GMS2	1983.00	1.00	28.00	4.00	38.00	0.0	25821.15
GMS2	1983.00	1.00	28.00	4.00	40.00	11.00	26073.16
GMS2	1983.00	1.00	28.00	4.00	42.00	22.00	25653.14
GMS2	1983.00	1.00	28.00	4.00	44.00	33.00	25107.10
GMS2	1983.00	1.00	28.00	4.00	46.00	44.00	24981.09
GMS2	1983.00	1.00	28.00	4.00	48.00	55.00	25233.11
GMS2	1983.00	1.00	28.00	4.00	51.00	6.00	24939.09
GMS2	1983.00	1.00	28.00	4.00	53.00	17.00	24981.09
GMS2	1983.00	1.00	28.00	4.00	55.00	28.00	25065.10
GMS2	1983.00	1.00	28.00	4.00	57.00	39.00	25149.11
GMS2	1983.00	1.00	28.00	4.00	59.00	50.00	24771.08
GMS2	1983.00	1.00	28.00	5.00	2.00	1.00	24855.09
GMS2	1983.00	1.00	28.00	5.00	4.00	12.00	24897.09
GMS2	1983.00	1.00	28.00	5.00	6.00	23.00	24645.07
GMS2	1983.00	1.00	28.00	5.00	8.00	35.00	24561.07
GMS2	1983.00	1.00	28.00	5.00	10.00	46.00	24225.04
GMS2	1983.00	1.00	28.00	5.00	12.00	57.00	24981.09
GMS2	1983.00	1.00	28.00	5.00	15.00	8.00	24603.07
GMS2	1983.00	1.00	28.00	5.00	17.00	19.00	24309.05
GMS2	1983.00	1.00	28.00	5.00	19.00	30.00	24561.07
GMS2	1983.00	1.00	28.00	5.00	21.00	41.00	24645.07
GMS2	1983.00	1.00	28.00	5.00	23.00	52.00	24855.09
GMS2	1983.00	1.00	28.00	5.00	26.00	3.00	24897.09
GMS2	1983.00	1.00	28.00	5.00	28.00	14.00	25023.10
GMS2	1983.00	1.00	28.00	5.00	30.00	25.00	25107.10
GMS2	1983.00	1.00	28.00	5.00	32.00	36.00	24771.08
GMS2	1983.00	1.00	28.00	5.00	34.00	47.00	25191.11
GMS2	1983.00	1.00	28.00	5.00	36.00	58.00	24897.09
GMS2	1983.00	1.00	28.00	5.00	39.00	9.00	25149.11
GMS2	1983.00	1.00	28.00	5.00	41.00	21.00	25233.11
GMS2	1983.00	1.00	28.00	5.00	43.00	32.00	25275.11
GMS2	1983.00	1.00	28.00	5.00	45.00	43.00	25569.13
GMS2	1983.00	1.00	28.00	5.00	47.00	54.00	25359.12
GMS2	1983.00	1.00	28.00	5.00	50.00	5.00	25191.11
GMS2	1983.00	1.00	28.00	5.00	52.00	16.00	25527.13
GMS2	1983.00	1.00	28.00	5.00	54.00	27.00	25443.12
GMS2	1983.00	1.00	28.00	5.00	56.00	33.00	25821.15
GMS2	1983.00	1.00	28.00	5.00	58.00	49.00	25779.14
GMS2	1983.00	1.00	28.00	6.00	1.00	0.0	26031.16
GMS2	1983.00	1.00	28.00	6.00	3.00	11.00	26115.16
GMS2	1983.00	1.00	28.00	6.00	5.00	22.00	26115.16
GMS2	1983.00	1.00	28.00	6.00	7.00	33.00	25443.12
GMS2	1983.00	1.00	28.00	6.00	9.00	44.00	25737.14
GMS2	1983.00	1.00	28.00	6.00	11.00	56.00	25611.13
GMS2	1983.00	1.00	28.00	6.00	14.00	7.00	25407.12

MS2	1983.00	1.00	28.00	6.00	25.00	2.00	25653.14
MS2	1983.00	1.00	28.00	6.00	27.00	13.00	26283.18
MS2	1983.00	1.00	28.00	6.00	29.00	24.00	26997.22
MS2	1983.00	1.00	28.00	6.00	31.00	35.00	26367.18
MS2	1983.00	1.00	28.00	6.00	33.00	46.00	26535.20
MS2	1983.00	1.00	28.00	6.00	35.00	57.00	26199.18
MS2	1983.00	1.00	28.00	6.00	38.00	8.00	26451.19
MS2	1983.00	1.00	28.00	6.00	40.00	19.00	26955.22
MS2	1983.00	1.00	28.00	6.00	42.00	30.00	27375.25
MS2	1983.00	1.00	28.00	6.00	44.00	42.00	27753.27
MS2	1983.00	1.00	28.00	6.00	46.00	53.00	27795.27
MS2	1983.00	1.00	28.00	6.00	49.00	4.00	27669.27
MS2	1983.00	1.00	28.00	6.00	51.00	15.00	27291.24
MS2	1983.00	1.00	28.00	6.00	53.00	26.00	26115.16
MS2	1983.00	1.00	28.00	6.00	55.00	37.00	26871.21
MS2	1983.00	1.00	28.00	6.00	57.00	48.00	26409.19
MS2	1983.00	1.00	28.00	6.00	59.00	59.00	25821.15
MS2	1983.00	1.00	28.00	7.00	2.00	10.00	24813.09
MS2	1983.00	1.00	28.00	7.00	4.00	21.00	24939.09
MS2	1983.00	1.00	28.00	7.00	6.00	32.00	24729.08
MS2	1983.00	1.00	28.00	7.00	8.00	43.00	24267.05
MS2	1983.00	1.00	28.00	7.00	10.00	54.00	24099.04
MS2	1983.00	1.00	28.00	7.00	13.00	5.00	23427.00
MS2	1983.00	1.00	28.00	7.00	15.00	17.00	23174.98
MS2	1983.00	1.00	28.00	7.00	17.00	28.00	23132.98
MS2	1983.00	1.00	28.00	7.00	19.00	39.00	22334.93
MS2	1983.00	1.00	28.00	7.00	21.00	50.00	22040.91
MS2	1983.00	1.00	28.00	7.00	24.00	1.00	21368.86
MS2	1983.00	1.00	28.00	7.00	26.00	12.00	20906.84
MS2	1983.00	1.00	28.00	7.00	28.00	23.00	20570.81
MS2	1983.00	1.00	28.00	7.00	30.00	34.00	20066.78
MS2	1983.00	1.00	28.00	7.00	32.00	45.00	18974.71
MS2	1983.00	1.00	28.00	7.00	34.00	56.00	18542.68
MS2	1983.00	1.00	28.00	7.00	37.00	7.00	18302.66
MS2	1983.00	1.00	28.00	7.00	39.00	18.00	18302.66
MS2	1983.00	1.00	28.00	7.00	41.00	29.00	17840.64
MS2	1983.00	1.00	28.00	7.00	43.00	40.00	17918.64
MS2	1983.00	1.00	28.00	7.00	45.00	51.00	18423.68
MS2	1983.00	1.00	28.00	7.00	48.00	3.00	18008.65
MS2	1983.00	1.00	28.00	7.00	50.00	14.00	17462.61
MS2	1983.00	1.00	28.00	7.00	52.00	25.00	17504.62
MS2	1983.00	1.00	28.00	7.00	54.00	36.00	16874.58
MS2	1983.00	1.00	28.00	7.00	56.00	47.00	17210.60
MS2	1983.00	1.00	28.00	7.00	58.00	58.00	16706.57
MS2	1983.00	1.00	28.00	8.00	1.00	9.00	16160.53
MS2	1983.00	1.00	28.00	8.00	3.00	20.00	16076.52
MS2	1983.00	1.00	28.00	8.00	5.00	31.00	15614.50
MS2	1983.00	1.00	28.00	8.00	7.00	42.00	16034.52
MS2	1983.00	1.00	28.00	8.00	9.00	53.00	15992.52
MS2	1983.00	1.00	28.00	8.00	12.00	4.00	15740.50
MS2	1983.00	1.00	28.00	8.00	14.00	15.00	15614.50
MS2	1983.00	1.00	28.00	8.00	16.00	26.00	15404.48
MS2	1983.00	1.00	28.00	8.00	18.00	38.00	15026.46
MS2	1983.00	1.00	28.00	8.00	20.00	49.00	15152.46
MS2	1983.00	1.00	28.00	8.00	23.00	0.0	14606.43
MS2	1983.00	1.00	28.00	8.00	25.00	11.00	14522.42
MS2	1983.00	1.00	28.00	8.00	27.00	22.00	14270.41
MS2	1983.00	1.00	28.00	8.00	29.00	33.00	14228.41
MS2	1983.00	1.00	28.00	8.00	31.00	44.00	14028.89
MS2	1983.00	1.00	28.00	8.00	33.00	55.00	14112.90
MS2	1983.00	1.00	28.00	8.00	36.00	6.00	13860.88
MS2	1983.00	1.00	28.00	8.00	38.00	17.00	13734.87
MS2	1983.00	1.00	28.00	8.00	40.00	28.00	13346.35

GMS2	1983.00	1.00	28.00	8.00	49.00	1.00	[illegible]
GMS2	1983.00	1.00	28.00	8.00	51.00	12.00	11561.23
GMS2	1983.00	1.00	28.00	8.00	53.00	24.00	11624.24
GMS2	1983.00	1.00	28.00	8.00	55.00	35.00	11960.26
GMS2	1983.00	1.00	28.00	8.00	57.00	46.00	12191.27
GMS2	1983.00	1.00	28.00	9.00	0.0	57.00	12674.31
GMS2	1983.00	1.00	28.00	9.00	2.00	8.00	12537.80
GMS2	1983.00	1.00	28.00	9.00	4.00	19.00	11918.26
GMS2	1983.00	1.00	28.00	9.00	6.00	30.00	12170.27
GMS2	1983.00	1.00	28.00	9.00	8.00	41.00	12422.29
GMS2	1983.00	1.00	28.00	9.00	11.00	52.00	11939.26
GMS2	1983.00	1.00	28.00	9.00	13.00	3.00	11834.25
GMS2	1983.00	1.00	28.00	9.00	15.00	14.00	11939.26
GMS2	1983.00	1.00	28.00	9.00	17.00	25.00	11939.26
GMS2	1983.00	1.00	28.00	9.00	19.00	36.00	12054.77
GMS2	1983.00	1.00	28.00	9.00	21.00	47.00	12254.28
GMS2	1983.00	1.00	28.00	9.00	24.00	59.00	12180.78
GMS2	1983.00	1.00	28.00	9.00	26.00	10.00	11981.26
GMS2	1983.00	1.00	28.00	9.00	28.00	21.00	12789.81
GMS2	1983.00	1.00	28.00	9.00	30.00	32.00	12485.29
GMS2	1983.00	1.00	28.00	9.00	32.00	43.00	12611.30
GMS2	1983.00	1.00	28.00	9.00	35.00	54.00	12222.78
GMS2	1983.00	1.00	28.00	9.00	37.00	5.00	12537.80
GMS2	1983.00	1.00	28.00	9.00	39.00	16.00	12768.81
GMS2	1983.00	1.00	28.00	9.00	41.00	27.00	12380.29
GMS2	1983.00	1.00	28.00	9.00	43.00	38.00	12128.27
GMS2	1983.00	1.00	28.00	9.00	46.00	49.00	11624.24
GMS2	1983.00	1.00	28.00	9.00	48.00	0.0	11687.24
GMS2	1983.00	1.00	28.00	9.00	50.00	11.00	11729.25
GMS2	1983.00	1.00	28.00	9.00	52.00	22.00	12023.27
GMS2	1983.00	1.00	28.00	9.00	54.00	33.00	11726.24
GMS2	1983.00	1.00	28.00	9.00	56.00	45.00	12044.27
GMS2	1983.00	1.00	28.00	9.00	59.00	56.00	11750.25
GMS2	1983.00	1.00	28.00	10.00	1.00	7.00	11498.23
GMS2	1983.00	1.00	28.00	10.00	3.00	18.00	12107.27
GMS2	1983.00	1.00	28.00	10.00	5.00	29.00	11708.25
GMS2	1983.00	1.00	28.00	10.00	7.00	40.00	11813.25
GMS2	1983.00	1.00	28.00	10.00	10.00	51.00	11603.24
GMS2	1983.00	1.00	28.00	10.00	12.00	2.00	11393.23
GMS2	1983.00	1.00	28.00	10.00	14.00	13.00	11666.24
GMS2	1983.00	1.00	28.00	10.00	16.00	24.00	11393.23
GMS2	1983.00	1.00	28.00	10.00	18.00	35.00	11267.22
GMS2	1983.00	1.00	28.00	10.00	20.00	46.00	11099.21
GMS2	1983.00	1.00	28.00	10.00	23.00	57.00	10952.20
GMS2	1983.00	1.00	28.00	10.00	25.00	8.00	10994.20
GMS2	1983.00	1.00	28.00	10.00	27.00	20.00	10952.20
GMS2	1983.00	1.00	28.00	10.00	29.00	31.00	10763.19
GMS2	1983.00	1.00	28.00	10.00	31.00	42.00	10763.19
GMS2	1983.00	1.00	28.00	10.00	34.00	53.00	10805.19
GMS2	1983.00	1.00	28.00	10.00	36.00	4.00	10511.17
GMS2	1983.00	1.00	28.00	10.00	38.00	15.00	10343.16
GMS2	1983.00	1.00	28.00	10.00	40.00	26.00	10658.18
GMS2	1983.00	1.00	28.00	10.00	42.00	37.00	10658.18
GMS2	1983.00	1.00	28.00	10.00	44.00	48.00	10595.17
GMS2	1983.00	1.00	28.00	10.00	47.00	59.00	10826.19
GMS2	1983.00	1.00	28.00	10.00	49.00	10.00	11057.20
GMS2	1983.00	1.00	28.00	10.00	51.00	21.00	10679.18
GMS2	1983.00	1.00	28.00	10.00	53.00	32.00	10763.19
GMS2	1983.00	1.00	28.00	10.00	55.00	43.00	10847.19
GMS2	1983.00	1.00	28.00	10.00	58.00	54.00	10763.19
GMS2	1983.00	1.00	28.00	10.00	58.00	6.00	10605.19

GMS2	1983.00	1.00	29.00	5.00	1.00	36.00	3060.95
GMS2	1983.00	1.00	29.00	5.00	3.00	47.00	2987.44
GMS2	1983.00	1.00	29.00	5.00	5.00	58.00	3139.70
GMS2	1983.00	1.00	29.00	5.00	8.00	9.00	3160.70
GMS2	1983.00	1.00	29.00	5.00	10.00	20.00	3013.69
GMS2	1983.00	1.00	29.00	5.00	12.00	31.00	3076.70
GMS2	1983.00	1.00	29.00	5.00	14.00	42.00	3039.94
GMS2	1983.00	1.00	29.00	5.00	16.00	53.00	2929.69
GMS2	1983.00	1.00	29.00	5.00	19.00	4.00	2929.69
GMS2	1983.00	1.00	29.00	5.00	21.00	15.00	3013.69
GMS2	1983.00	1.00	29.00	5.00	23.00	26.00	3076.70
GMS2	1983.00	1.00	29.00	5.00	25.00	37.00	3181.70
GMS2	1983.00	1.00	29.00	5.00	27.00	49.00	2793.18
GMS2	1983.00	1.00	29.00	5.00	30.00	0.0	3496.72
GMS2	1983.00	1.00	29.00	5.00	32.00	11.00	3160.70
GMS2	1983.00	1.00	29.00	5.00	34.00	22.00	3601.73
GMS2	1983.00	1.00	29.00	5.00	36.00	33.00	3181.70
GMS2	1983.00	1.00	29.00	5.00	38.00	44.00	3139.70
GMS2	1983.00	1.00	29.00	5.00	40.00	55.00	3118.70
GMS2	1983.00	1.00	29.00	5.00	43.00	6.00	3160.70
GMS2	1983.00	1.00	29.00	5.00	45.00	17.00	3123.95
GMS2	1983.00	1.00	29.00	5.00	47.00	28.00	3097.70
GMS2	1983.00	1.00	29.00	5.00	49.00	39.00	2740.68
GMS2	1983.00	1.00	29.00	5.00	51.00	50.00	2556.91
GMS2	1983.00	1.00	29.00	5.00	54.00	1.00	2572.66
GMS2	1983.00	1.00	29.00	5.00	56.00	12.00	2488.66
GMS2	1983.00	1.00	29.00	5.00	58.00	24.00	2378.40
GMS2	1983.00	1.00	29.00	6.00	0.0	35.00	2415.15
GMS2	1983.00	1.00	29.00	6.00	2.00	46.00	2352.15
GMS2	1983.00	1.00	29.00	6.00	4.00	57.00	2346.90
GMS2	1983.00	1.00	29.00	6.00	7.00	8.00	2378.40
GMS2	1983.00	1.00	29.00	6.00	9.00	19.00	2336.40
GMS2	1983.00	1.00	29.00	6.00	11.00	30.00	2210.39
GMS2	1983.00	1.00	29.00	6.00	13.00	41.00	2163.14
GMS2	1983.00	1.00	29.00	6.00	15.00	52.00	2079.13
GMS2	1983.00	1.00	29.00	6.00	18.00	3.00	2089.63
GMS2	1983.00	1.00	29.00	6.00	20.00	14.00	2079.13
GMS2	1983.00	1.00	29.00	6.00	22.00	25.00	2079.13
GMS2	1983.00	1.00	29.00	6.00	24.00	36.00	2131.64
GMS2	1983.00	1.00	29.00	6.00	26.00	47.00	2084.38
GMS2	1983.00	1.00	29.00	6.00	28.00	58.00	2016.13
GMS2	1983.00	1.00	29.00	6.00	31.00	10.00	2105.38
GMS2	1983.00	1.00	29.00	6.00	33.00	21.00	2016.13
GMS2	1983.00	1.00	29.00	6.00	35.00	32.00	1963.63
GMS2	1983.00	1.00	29.00	6.00	37.00	43.00	1953.12
GMS2	1983.00	1.00	29.00	6.00	39.00	54.00	2016.13
GMS2	1983.00	1.00	29.00	6.00	42.00	5.00	1963.63
GMS2	1983.00	1.00	29.00	6.00	44.00	16.00	1848.12
GMS2	1983.00	1.00	29.00	6.00	46.00	27.00	1953.12
GMS2	1983.00	1.00	29.00	6.00	48.00	38.00	1879.62
GMS2	1983.00	1.00	29.00	6.00	50.00	49.00	1879.62
GMS2	1983.00	1.00	29.00	6.00	53.00	0.0	1848.12
GMS2	1983.00	1.00	29.00	6.00	55.00	11.00	1858.62
GMS2	1983.00	1.00	29.00	6.00	57.00	22.00	1753.61
GMS2	1983.00	1.00	29.00	6.00	59.00	33.00	1732.61
GMS2	1983.00	1.00	29.00	7.00	1.00	45.00	1690.11
GMS2	1983.00	1.00	29.00	7.00	3.00	56.00	1638.10
GMS2	1983.00	1.00	29.00	7.00	5.00	7.00	1690.61
GMS2	1983.00	1.00	29.00	7.00	8.00	18.00	1638.10
GMS2	1983.00	1.00	29.00	7.00	10.00	29.00	1606.60
GMS2	1983.00	1.00	29.00	7.00	12.00	40.00	1533.10
GMS2	1983.00	1.00	29.00	7.00	14.00	51.00	1491.10
GMS2	1983.00	1.00	29.00	7.00	17.00	2.00	1449.09
GMS2	1983.00	1.00	29.00	7.00	19.00	13.00	1504.22

S2	1983.00	1.00	29.00	7.00	23.00	35.00	1404.46
S2	1983.00	1.00	29.00	7.00	25.00	46.00	1522.60
S2	1983.00	1.00	29.00	7.00	27.00	57.00	1546.22
S2	1983.00	1.00	29.00	7.00	30.00	8.00	1212.83
S2	1983.00	1.00	29.00	7.00	32.00	19.00	1333.59
S2	1983.00	1.00	29.00	7.00	34.00	31.00	1302.08
S2	1983.00	1.00	29.00	7.00	36.00	42.00	1283.71
S2	1983.00	1.00	29.00	7.00	38.00	53.00	1155.07
S2	1983.00	1.00	29.00	7.00	41.00	4.00	1304.71
S2	1983.00	1.00	29.00	7.00	43.00	15.00	1165.57
S2	1983.00	1.00	29.00	7.00	45.00	26.00	1076.32
S2	1983.00	1.00	29.00	7.00	47.00	37.00	1281.08
S2	1983.00	1.00	29.00	7.00	49.00	48.00	1325.71
S2	1983.00	1.00	29.00	7.00	51.00	59.00	1202.33
S2	1983.00	1.00	29.00	7.00	54.00	10.00	1149.82
S2	1983.00	1.00	29.00	7.00	56.00	21.00	1223.33
S2	1983.00	1.00	29.00	7.00	58.00	32.00	1286.33
S2	1983.00	1.00	29.00	8.00	0.0	43.00	1225.95
S2	1983.00	1.00	29.00	8.00	2.00	54.00	1126.20
S2	1983.00	1.00	29.00	8.00	5.00	6.00	1157.70
S2	1983.00	1.00	29.00	8.00	7.00	17.00	1113.32
S2	1983.00	1.00	29.00	8.00	9.00	28.00	1102.57
S2	1983.00	1.00	29.00	8.00	11.00	39.00	1097.32
S2	1983.00	1.00	29.00	8.00	13.00	50.00	1008.06
S2	1983.00	1.00	29.00	8.00	16.00	1.00	1047.44
S2	1983.00	1.00	29.00	8.00	18.00	12.00	1010.69
S2	1983.00	1.00	29.00	8.00	20.00	23.00	1013.31
S2	1983.00	1.00	29.00	8.00	22.00	34.00	1141.95
S2	1983.00	1.00	29.00	8.00	24.00	45.00	1099.95
S2	1983.00	1.00	29.00	8.00	26.00	56.00	984.44
S2	1983.00	1.00	29.00	8.00	29.00	7.00	1029.07
S2	1983.00	1.00	29.00	8.00	31.00	18.00	960.81
S2	1983.00	1.00	29.00	8.00	33.00	29.00	1036.94
S2	1983.00	1.00	29.00	8.00	35.00	40.00	1036.94
S2	1983.00	1.00	29.00	8.00	37.00	52.00	1036.94
S2	1983.00	1.00	29.00	8.00	40.00	3.00	963.44
S2	1983.00	1.00	29.00	8.00	42.00	14.00	1023.82
S2	1983.00	1.00	29.00	8.00	44.00	25.00	861.05
S2	1983.00	1.00	29.00	8.00	46.00	36.00	889.93
S2	1983.00	1.00	29.00	8.00	48.00	47.00	1013.31
S2	1983.00	1.00	29.00	8.00	50.00	58.00	958.19
S2	1983.00	1.00	29.00	8.00	53.00	9.00	908.31
S2	1983.00	1.00	29.00	8.00	55.00	20.00	805.93
S2	1983.00	1.00	29.00	8.00	57.00	31.00	803.30
S2	1983.00	1.00	29.00	8.00	59.00	42.00	787.55
S2	1983.00	1.00	29.00	9.00	1.00	53.00	724.55
S2	1983.00	1.00	29.00	9.00	4.00	4.00	678.61
S2	1983.00	1.00	29.00	9.00	6.00	15.00	674.67
S2	1983.00	1.00	29.00	9.00	8.00	27.00	654.98
S2	1983.00	1.00	29.00	9.00	10.00	38.00	640.54
S2	1983.00	1.00	29.00	9.00	12.00	49.00	704.86
S2	1983.00	1.00	29.00	9.00	15.00	0.0	656.29
S2	1983.00	1.00	29.00	9.00	17.00	11.00	633.98
S2	1983.00	1.00	29.00	9.00	19.00	22.00	645.79
S2	1983.00	1.00	29.00	9.00	21.00	33.00	612.98
S2	1983.00	1.00	29.00	9.00	23.00	44.00	657.60
S2	1983.00	1.00	29.00	9.00	25.00	55.00	607.73
S2	1983.00	1.00	29.00	9.00	28.00	6.00	607.73
S2	1983.00	1.00	29.00	9.00	30.00	17.00	611.66
S2	1983.00	1.00	29.00	9.00	32.00	28.00	580.16
S2	1983.00	1.00	29.00	9.00	34.00	39.00	582.79
S2	1983.00	1.00	29.00	9.00	36.00	50.00	542.10
S2	1983.00	1.00	29.00	9.00	39.00	1.00	492.22

MS2	1983.00	1.00	29.00	9.00	49.00	57.00	401.65
MS2	1983.00	1.00	29.00	9.00	52.00	8.00	378.02
MS2	1983.00	1.00	29.00	9.00	54.00	19.00	298.61
MS2	1983.00	1.00	29.00	9.00	56.00	30.00	328.80
MS2	1983.00	1.00	29.00	9.00	58.00	41.00	345.21
MS2	1983.00	1.00	29.00	10.00	0.0	52.00	376.71
MS2	1983.00	1.00	29.00	10.00	3.00	3.00	366.21
MS2	1983.00	1.00	29.00	10.00	5.00	14.00	357.02
MS2	1983.00	1.00	29.00	10.00	7.00	25.00	456.78
MS2	1983.00	1.00	29.00	10.00	9.00	36.00	442.34
MS2	1983.00	1.00	29.00	10.00	11.00	48.00	446.28
MS2	1983.00	1.00	29.00	10.00	13.00	59.00	426.59
MS2	1983.00	1.00	29.00	10.00	16.00	10.00	472.53
MS2	1983.00	1.00	29.00	10.00	18.00	21.00	455.47
MS2	1983.00	1.00	29.00	10.00	20.00	32.00	493.53
MS2	1983.00	1.00	29.00	10.00	22.00	43.00	425.28
MS2	1983.00	1.00	29.00	10.00	24.00	54.00	420.03
MS2	1983.00	1.00	29.00	10.00	27.00	5.00	443.65
MS2	1983.00	1.00	29.00	10.00	29.00	16.00	455.47
MS2	1983.00	1.00	29.00	10.00	31.00	27.00	349.15
MS2	1983.00	1.00	29.00	10.00	33.00	38.00	320.27
MS2	1983.00	1.00	29.00	10.00	35.00	49.00	259.89
MS2	1983.00	1.00	29.00	10.00	38.00	0.0	266.45
MS2	1983.00	1.00	29.00	10.00	40.00	11.00	358.33
MS2	1983.00	1.00	29.00	10.00	42.00	22.00	340.62
MS2	1983.00	1.00	29.00	10.00	44.00	34.00	322.90
MS2	1983.00	1.00	29.00	10.00	46.00	45.00	350.46
MS2	1983.00	1.00	29.00	10.00	48.00	56.00	339.96
MS2	1983.00	1.00	29.00	10.00	51.00	7.00	309.77
MS2	1983.00	1.00	29.00	10.00	53.00	18.00	334.71
MS2	1983.00	1.00	29.00	10.00	55.00	29.00	392.46
MS2	1983.00	1.00	29.00	10.00	57.00	40.00	367.52
MS2	1983.00	1.00	29.00	10.00	59.00	51.00	381.96
MS2	1983.00	1.00	29.00	11.00	2.00	2.00	380.65
MS2	1983.00	1.00	29.00	11.00	4.00	13.00	395.09
MS2	1983.00	1.00	29.00	11.00	6.00	24.00	434.47
MS2	1983.00	1.00	29.00	11.00	8.00	35.00	405.59
MS2	1983.00	1.00	29.00	11.00	10.00	46.00	309.77
MS2	1983.00	1.00	29.00	11.00	12.00	57.00	316.33
MS2	1983.00	1.00	29.00	11.00	15.00	9.00	289.42
MS2	1983.00	1.00	29.00	11.00	17.00	20.00	225.76
MS2	1983.00	1.00	29.00	11.00	19.00	31.00	189.01
MS2	1983.00	1.00	29.00	11.00	21.00	42.00	129.29
MS2	1983.00	1.00	29.00	11.00	23.00	53.00	83.35
MS2	1983.00	1.00	29.00	11.00	26.00	4.00	111.57
MS2	1983.00	1.00	29.00	11.00	28.00	15.00	97.13
MS2	1983.00	1.00	29.00	11.00	30.00	26.00	131.26
MS2	1983.00	1.00	29.00	11.00	32.00	37.00	141.76
MS2	1983.00	1.00	29.00	11.00	34.00	48.00	135.85
MS2	1983.00	1.00	29.00	11.00	36.00	59.00	91.22
MS2	1983.00	1.00	29.00	11.00	39.00	10.00	99.10
MS2	1983.00	1.00	29.00	11.00	41.00	21.00	110.26
MS2	1983.00	1.00	29.00	11.00	43.00	32.00	153.57
MS2	1983.00	1.00	29.00	11.00	45.00	43.00	193.61
MS2	1983.00	1.00	29.00	11.00	47.00	55.00	164.07
MS2	1983.00	1.00	29.00	11.00	50.00	6.00	154.88
MS2	1983.00	1.00	29.00	11.00	52.00	17.00	121.41
MS2	1983.00	1.00	29.00	11.00	54.00	28.00	187.70
MS2	1983.00	1.00	29.00	11.00	56.00	39.00	130.60
MS2	1983.00	1.00	29.00	11.00	58.00	50.00	82.04
MS2	1983.00	1.00	29.00	12.00	1.00	1.00	76.13

MS2	1983.00	1.00	29.00	12.00	14.00	7.00	118.79
MS2	1983.00	1.00	29.00	12.00	16.00	18.00	115.51
MS2	1983.00	1.00	29.00	12.00	18.00	30.00	121.41
MS2	1983.00	1.00	29.00	12.00	20.00	41.00	100.41
MS2	1983.00	1.00	29.00	12.00	22.00	52.00	162.10
MS2	1983.00	1.00	29.00	12.00	25.00	3.00	158.17
MS2	1983.00	1.00	29.00	12.00	27.00	14.00	192.95
MS2	1983.00	1.00	29.00	12.00	29.00	25.00	206.08
MS2	1983.00	1.00	29.00	12.00	31.00	36.00	214.61
MS2	1983.00	1.00	29.00	12.00	33.00	47.00	208.04
MS2	1983.00	1.00	29.00	12.00	35.00	58.00	194.92
MS2	1983.00	1.00	29.00	12.00	38.00	9.00	207.39
MS2	1983.00	1.00	29.00	12.00	40.00	20.00	204.76
MS2	1983.00	1.00	29.00	12.00	42.00	31.00	217.89
MS2	1983.00	1.00	29.00	12.00	44.00	42.00	193.61
MS2	1983.00	1.00	29.00	12.00	46.00	53.00	231.67
MS2	1983.00	1.00	29.00	12.00	49.00	4.00	242.83
MS2	1983.00	1.00	29.00	12.00	51.00	16.00	119.45
MS2	1983.00	1.00	29.00	12.00	53.00	27.00	265.14
MS2	1983.00	1.00	29.00	12.00	55.00	38.00	336.02
MS2	1983.00	1.00	29.00	12.00	57.00	49.00	215.26
MS2	1983.00	1.00	29.00	13.00	0.0	0.0	122.73
MS2	1983.00	1.00	29.00	13.00	2.00	11.00	60.38
MS2	1983.00	1.00	29.00	13.00	4.00	22.00	99.10
MS2	1983.00	1.00	29.00	13.00	6.00	33.00	53.82
MS2	1983.00	1.00	29.00	13.00	8.00	44.00	22.31
MS2	1983.00	1.00	29.00	13.00	10.00	55.00	43.50
MS2	1983.00	1.00	29.00	13.00	13.00	6.00	31.50
MS2	1983.00	1.00	29.00	13.00	15.00	17.00	26.25
MS2	1983.00	1.00	29.00	13.00	17.00	28.00	27.56
MS2	1983.00	1.00	29.00	13.00	19.00	39.00	38.06
MS2	1983.00	1.00	29.00	13.00	21.00	51.00	40.69
MS2	1983.00	1.00	29.00	13.00	24.00	2.00	74.16
MS2	1983.00	1.00	29.00	13.00	26.00	13.00	45.94
MS2	1983.00	1.00	29.00	13.00	28.00	24.00	53.82
MS2	1983.00	1.00	29.00	13.00	30.00	35.00	63.00
MS2	1983.00	1.00	29.00	13.00	32.00	46.00	39.38
MS2	1983.00	1.00	29.00	13.00	34.00	57.00	32.81
MS2	1983.00	1.00	29.00	13.00	37.00	8.00	7.88
MS2	1983.00	1.00	29.00	13.00	39.00	19.00	22.31
MS2	1983.00	1.00	29.00	13.00	41.00	30.00	47.25
MS2	1983.00	1.00	29.00	13.00	43.00	41.00	127.32
MS2	1983.00	1.00	29.00	13.00	45.00	52.00	164.73
MS2	1983.00	1.00	29.00	13.00	48.00	3.00	146.35
MS2	1983.00	1.00	29.00	13.00	50.00	14.00	185.07
MS2	1983.00	1.00	29.00	13.00	52.00	25.00	55.13
MS2	1983.00	1.00	29.00	13.00	54.00	37.00	14.44
MS2	1983.00	1.00	29.00	13.00	56.00	48.00	17.06
MS2	1983.00	1.00	29.00	13.00	58.00	59.00	26.25

S2	1983.00	3.00	25.00	5.00	2.00	2.00	2677.67
S2	1983.00	3.00	25.00	5.00	4.00	13.00	2404.65
S2	1983.00	3.00	25.00	5.00	6.00	24.00	2472.91
S2	1983.00	3.00	25.00	5.00	8.00	35.00	2766.93
S2	1983.00	3.00	25.00	5.00	10.00	46.00	2992.69
S2	1983.00	3.00	25.00	5.00	12.00	57.00	2940.19
S2	1983.00	3.00	25.00	5.00	15.00	8.00	3013.69
S2	1983.00	3.00	25.00	5.00	17.00	19.00	2814.18
S2	1983.00	3.00	25.00	5.00	19.00	30.00	2588.42
S2	1983.00	3.00	25.00	5.00	21.00	41.00	2609.42
S2	1983.00	3.00	25.00	5.00	23.00	52.00	2714.42
S2	1983.00	3.00	25.00	5.00	26.00	3.00	2777.43
S2	1983.00	3.00	25.00	5.00	28.00	14.00	2929.69
S2	1983.00	3.00	25.00	5.00	30.00	25.00	3034.69
S2	1983.00	3.00	25.00	5.00	32.00	36.00	3118.70
S2	1983.00	3.00	25.00	5.00	34.00	48.00	3118.70
S2	1983.00	3.00	25.00	5.00	36.00	59.00	3039.94
S2	1983.00	3.00	25.00	5.00	39.00	10.00	3370.72
S2	1983.00	3.00	25.00	5.00	41.00	21.00	3412.72
S2	1983.00	3.00	25.00	5.00	43.00	32.00	3517.73
S2	1983.00	3.00	25.00	5.00	45.00	43.00	3118.70
S2	1983.00	3.00	25.00	5.00	47.00	54.00	3685.74
S2	1983.00	3.00	25.00	5.00	50.00	5.00	4168.76
S2	1983.00	3.00	25.00	5.00	52.00	16.00	3937.75
S2	1983.00	3.00	25.00	5.00	54.00	27.00	2965.69
S2	1983.00	3.00	25.00	5.00	56.00	38.00	2997.94
S2	1983.00	3.00	25.00	5.00	58.00	49.00	2661.92
S2	1983.00	3.00	25.00	6.00	1.00	0.0	2310.15
S2	1983.00	3.00	25.00	6.00	3.00	11.00	2856.18
S2	1983.00	3.00	25.00	6.00	5.00	22.00	3202.70
S2	1983.00	3.00	25.00	6.00	7.00	34.00	3559.73
S2	1983.00	3.00	25.00	6.00	9.00	45.00	2929.69
S2	1983.00	3.00	25.00	6.00	11.00	56.00	2509.66
S2	1983.00	3.00	25.00	6.00	14.00	7.00	1729.99
S2	1983.00	3.00	25.00	6.00	16.00	18.00	741.61
S2	1983.00	3.00	25.00	6.00	18.00	29.00	507.97
S2	1983.00	3.00	25.00	6.00	20.00	40.00	565.72
S2	1983.00	3.00	25.00	6.00	22.00	51.00	548.66
S2	1983.00	3.00	25.00	6.00	25.00	2.00	465.97
S2	1983.00	3.00	25.00	6.00	27.00	13.00	334.05
S2	1983.00	3.00	25.00	6.00	29.00	24.00	215.92
S2	1983.00	3.00	25.00	6.00	31.00	35.00	365.55
S2	1983.00	3.00	25.00	6.00	33.00	46.00	280.24
S2	1983.00	3.00	25.00	6.00	35.00	57.00	273.02
S2	1983.00	3.00	25.00	6.00	38.00	9.00	228.39
S2	1983.00	3.00	25.00	6.00	40.00	20.00	173.92
S2	1983.00	3.00	25.00	6.00	42.00	31.00	311.08
S2	1983.00	3.00	25.00	6.00	44.00	42.00	206.73
S2	1983.00	3.00	25.00	6.00	46.00	53.00	389.84
S2	1983.00	3.00	25.00	6.00	49.00	4.00	353.74
S2	1983.00	3.00	25.00	6.00	51.00	15.00	251.36
S2	1983.00	3.00	25.00	6.00	53.00	26.00	206.73
S2	1983.00	3.00	25.00	6.00	55.00	37.00	158.17
S2	1983.00	3.00	25.00	6.00	57.00	48.00	118.13
S2	1983.00	3.00	25.00	6.00	59.00	59.00	172.60
MS2	1983.00	3.00	25.00	7.00	2.00	10.00	97.13
MS2	1983.00	3.00	25.00	7.00	4.00	21.00	94.51
MS2	1983.00	3.00	25.00	7.00	6.00	32.00	73.50
MS2	1983.00	3.00	25.00	7.00	8.00	43.00	96.47
MS2	1983.00	3.00	25.00	7.00	10.00	55.00	104.35
MS2	1983.00	3.00	25.00	7.00	13.00	6.00	80.07
MS2	1983.00	3.00	25.00	7.00	15.00	17.00	87.29
MS2	1983.00	3.00	25.00	7.00	17.00	28.00	48.57

S2	1983.00	3.00	25.00	7.00	25.00	12.00	157.51
S2	1983.00	3.00	25.00	7.00	28.00	23.00	118.79
S2	1983.00	3.00	25.00	7.00	30.00	34.00	52.50
S2	1983.00	3.00	25.00	7.00	32.00	45.00	56.44
S2	1983.00	3.00	25.00	7.00	34.00	56.00	99.76
S2	1983.00	3.00	25.00	7.00	37.00	7.00	102.38
S2	1983.00	3.00	25.00	7.00	39.00	18.00	127.32
S2	1983.00	3.00	25.00	7.00	41.00	30.00	117.48
S2	1983.00	3.00	25.00	7.00	43.00	41.00	127.32
S2	1983.00	3.00	25.00	7.00	45.00	52.00	134.54
S2	1983.00	3.00	25.00	7.00	48.00	3.00	129.95
S2	1983.00	3.00	25.00	7.00	50.00	14.00	116.82
S2	1983.00	3.00	25.00	7.00	52.00	25.00	129.95
S2	1983.00	3.00	25.00	7.00	54.00	36.00	134.54
S2	1983.00	3.00	25.00	7.00	56.00	47.00	127.98
S2	1983.00	3.00	25.00	7.00	58.00	58.00	123.38
S2	1983.00	3.00	25.00	8.00	1.00	9.00	105.01
S2	1983.00	3.00	25.00	8.00	3.00	20.00	95.16
S2	1983.00	3.00	25.00	8.00	5.00	31.00	115.51
S2	1983.00	3.00	25.00	8.00	7.00	42.00	143.07
S2	1983.00	3.00	25.00	8.00	9.00	53.00	131.91
S2	1983.00	3.00	25.00	8.00	12.00	4.00	108.94
S2	1983.00	3.00	25.00	8.00	14.00	16.00	118.79
S2	1983.00	3.00	25.00	8.00	16.00	27.00	120.10
S2	1983.00	3.00	25.00	8.00	18.00	38.00	150.95
S2	1983.00	3.00	25.00	8.00	20.00	49.00	115.51
S2	1983.00	3.00	25.00	8.00	23.00	0.0	103.69
S2	1983.00	3.00	25.00	8.00	25.00	11.00	156.20
S2	1983.00	3.00	25.00	8.00	27.00	22.00	80.72
S2	1983.00	3.00	25.00	8.00	29.00	33.00	66.94
S2	1983.00	3.00	25.00	8.00	31.00	44.00	119.45
S2	1983.00	3.00	25.00	8.00	33.00	55.00	133.88
S2	1983.00	3.00	25.00	8.00	36.00	6.00	128.63
S2	1983.00	3.00	25.00	8.00	38.00	17.00	113.54
S2	1983.00	3.00	25.00	8.00	40.00	28.00	156.20
S2	1983.00	3.00	25.00	8.00	42.00	39.00	140.45
S2	1983.00	3.00	25.00	8.00	44.00	50.00	137.17
S2	1983.00	3.00	25.00	8.00	47.00	2.00	146.35
S2	1983.00	3.00	25.00	8.00	49.00	13.00	150.95
S2	1983.00	3.00	25.00	8.00	51.00	24.00	158.17
S2	1983.00	3.00	25.00	8.00	53.00	35.00	155.54
S2	1983.00	3.00	25.00	8.00	55.00	46.00	192.95
S2	1983.00	3.00	25.00	8.00	57.00	57.00	136.51
S2	1983.00	3.00	25.00	9.00	0.0	8.00	145.04
S2	1983.00	3.00	25.00	9.00	2.00	19.00	119.45
S2	1983.00	3.00	25.00	9.00	4.00	30.00	171.95
S2	1983.00	3.00	25.00	9.00	6.00	41.00	177.86
S2	1983.00	3.00	25.00	9.00	8.00	52.00	177.20
S2	1983.00	3.00	25.00	9.00	11.00	3.00	145.04
S2	1983.00	3.00	25.00	9.00	13.00	14.00	112.88
S2	1983.00	3.00	25.00	9.00	15.00	25.00	51.19
S2	1983.00	3.00	25.00	9.00	17.00	37.00	9.19
S2	1983.00	3.00	25.00	9.00	19.00	48.00	1.31
S2	1983.00	3.00	25.00	9.00	21.00	59.00	9.19
S2	1983.00	3.00	25.00	9.00	24.00	10.00	15.75
S2	1983.00	3.00	25.00	9.00	26.00	21.00	6.56
S2	1983.00	3.00	25.00	9.00	28.00	32.00	2.63
S2	1983.00	3.00	25.00	9.00	30.00	43.00	1.31
S2	1983.00	3.00	25.00	9.00	32.00	54.00	1.31
S2	1983.00	3.00	25.00	9.00	35.00	5.00	0.0
S2	1983.00	3.00	25.00	9.00	37.00	16.00	0.0

MS2	1983.00	3.00	25.00	9.00	50.00	23.00	1.31
MS2	1983.00	3.00	25.00	9.00	52.00	34.00	2.63
MS2	1983.00	3.00	25.00	9.00	54.00	45.00	3.94
MS2	1983.00	3.00	25.00	9.00	56.00	56.00	5.25
MS2	1983.00	3.00	25.00	9.00	59.00	7.00	1.50
MS2	1983.00	3.00	25.00	10.00	1.00	18.00	2.63
MS2	1983.00	3.00	25.00	10.00	3.00	29.00	2.63
MS2	1983.00	3.00	25.00	10.00	5.00	40.00	0.0
MS2	1983.00	3.00	25.00	10.00	7.00	51.00	10.50
MS2	1983.00	3.00	25.00	10.00	10.00	2.00	53.82
MS2	1983.00	3.00	25.00	10.00	12.00	13.00	124.04
MS2	1983.00	3.00	25.00	10.00	14.00	24.00	47.25
MS2	1983.00	3.00	25.00	10.00	16.00	35.00	82.69
MS2	1983.00	3.00	25.00	10.00	18.00	46.00	68.91
MS2	1983.00	3.00	25.00	10.00	20.00	58.00	166.70
MS2	1983.00	3.00	25.00	10.00	23.00	9.00	401.65
MS2	1983.00	3.00	25.00	10.00	25.00	20.00	316.99
MS2	1983.00	3.00	25.00	10.00	27.00	31.00	254.64
MS2	1983.00	3.00	25.00	10.00	29.00	42.00	977.87
MS2	1983.00	3.00	25.00	10.00	31.00	53.00	641.85
MS2	1983.00	3.00	25.00	10.00	34.00	4.00	875.49
MS2	1983.00	3.00	25.00	10.00	36.00	15.00	901.74
MS2	1983.00	3.00	25.00	10.00	38.00	26.00	668.10
MS2	1983.00	3.00	25.00	10.00	40.00	37.00	824.30
MS2	1983.00	3.00	25.00	10.00	42.00	48.00	682.54
MS2	1983.00	3.00	25.00	10.00	44.00	59.00	1438.59
MS2	1983.00	3.00	25.00	10.00	47.00	10.00	1281.08
MS2	1983.00	3.00	25.00	10.00	49.00	21.00	2955.94
MS2	1983.00	3.00	25.00	10.00	51.00	32.00	1971.50
MS2	1983.00	3.00	25.00	10.00	53.00	44.00	1210.20
MS2	1983.00	3.00	25.00	10.00	55.00	55.00	1000.19
MS2	1983.00	3.00	25.00	10.00	58.00	6.00	918.81
MS2	1983.00	3.00	25.00	11.00	0.0	17.00	1008.06
MS2	1983.00	3.00	25.00	11.00	2.00	28.00	1102.57
MS2	1983.00	3.00	25.00	11.00	4.00	39.00	1183.95
MS2	1983.00	3.00	25.00	11.00	6.00	50.00	934.56
MS2	1983.00	3.00	25.00	11.00	9.00	1.00	997.56
MS2	1983.00	3.00	25.00	11.00	11.00	12.00	1055.32
MS2	1983.00	3.00	25.00	11.00	13.00	23.00	973.94
MS2	1983.00	3.00	25.00	11.00	15.00	34.00	868.93
MS2	1983.00	3.00	25.00	11.00	17.00	45.00	716.67
MS2	1983.00	3.00	25.00	11.00	19.00	56.00	606.41
MS2	1983.00	3.00	25.00	11.00	22.00	7.00	493.53
MS2	1983.00	3.00	25.00	11.00	24.00	18.00	577.54
MS2	1983.00	3.00	25.00	11.00	26.00	30.00	494.84
MS2	1983.00	3.00	25.00	11.00	28.00	41.00	437.09
MS2	1983.00	3.00	25.00	11.00	30.00	52.00	549.97
MS2	1983.00	3.00	25.00	11.00	33.00	3.00	534.22
MS2	1983.00	3.00	25.00	11.00	35.00	14.00	543.41
MS2	1983.00	3.00	25.00	11.00	37.00	25.00	451.53
MS2	1983.00	3.00	25.00	11.00	39.00	36.00	504.03
MS2	1983.00	3.00	25.00	11.00	41.00	47.00	443.65
MS2	1983.00	3.00	25.00	11.00	43.00	58.00	420.03
MS2	1983.00	3.00	25.00	11.00	46.00	9.00	410.84
MS2	1983.00	3.00	25.00	11.00	48.00	20.00	423.96
MS2	1983.00	3.00	25.00	11.00	50.00	31.00	330.77
MS2	1983.00	3.00	25.00	11.00	52.00	42.00	264.49
MS2	1983.00	3.00	25.00	11.00	54.00	53.00	189.67
MS2	1983.00	3.00	25.00	11.00	57.00	5.00	40.69
MS2	1983.00	3.00	25.00	11.00	59.00	16.00	14.44
MS2	1983.00	3.00	25.00	12.00	1.00	27.00	10.50
MS2	1983.00	3.00	25.00	12.00	3.00	38.00	7.88

MS2	1983.00	3.00	25.00	12.00	14.00	33.00	7.88
MS2	1983.00	3.00	25.00	12.00	16.00	44.00	5.25
MS2	1983.00	3.00	25.00	12.00	18.00	55.00	3.94
MS2	1983.00	3.00	25.00	12.00	21.00	6.00	1.31
MS2	1983.00	3.00	25.00	12.00	23.00	17.00	2.63
MS2	1983.00	3.00	25.00	12.00	25.00	28.00	1.31
MS2	1983.00	3.00	25.00	12.00	27.00	39.00	3.94
MS2	1983.00	3.00	25.00	12.00	29.00	51.00	2.63
MS2	1983.00	3.00	25.00	12.00	32.00	2.00	2.63
MS2	1983.00	3.00	25.00	12.00	34.00	13.00	1.31
MS2	1983.00	3.00	25.00	12.00	36.00	24.00	1.31
MS2	1983.00	3.00	25.00	12.00	38.00	35.00	24.94
MS2	1983.00	3.00	25.00	12.00	40.00	46.00	6.56
MS2	1983.00	3.00	25.00	12.00	42.00	57.00	1.31
MS2	1983.00	3.00	25.00	12.00	45.00	8.00	7.88
MS2	1983.00	3.00	25.00	12.00	47.00	19.00	13.13
MS2	1983.00	3.00	25.00	12.00	49.00	30.00	6.56
MS2	1983.00	3.00	25.00	12.00	51.00	41.00	1.31
MS2	1983.00	3.00	25.00	12.00	53.00	52.00	13.13
MS2	1983.00	3.00	25.00	12.00	56.00	3.00	10.50
MS2	1983.00	3.00	25.00	12.00	58.00	14.00	2.63
MS2	1983.00	3.00	25.00	13.00	0.0	26.00	11.81
MS2	1983.00	3.00	25.00	13.00	2.00	37.00	76.79
MS2	1983.00	3.00	25.00	13.00	4.00	48.00	180.48
MS2	1983.00	3.00	25.00	13.00	6.00	59.00	260.55
MS2	1983.00	3.00	25.00	13.00	9.00	10.00	272.36
MS2	1983.00	3.00	25.00	13.00	11.00	21.00	614.29
MS2	1983.00	3.00	25.00	13.00	13.00	32.00	448.90
MS2	1983.00	3.00	25.00	13.00	15.00	43.00	683.86
MS2	1983.00	3.00	25.00	13.00	17.00	54.00	955.56
MS2	1983.00	3.00	25.00	13.00	20.00	5.00	1559.35
MS2	1983.00	3.00	25.00	13.00	22.00	16.00	2045.01
MS2	1983.00	3.00	25.00	13.00	24.00	27.00	661.54
MS2	1983.00	3.00	25.00	13.00	26.00	38.00	624.79
MS2	1983.00	3.00	25.00	13.00	28.00	49.00	703.54
MS2	1983.00	3.00	25.00	13.00	31.00	0.0	641.85
MS2	1983.00	3.00	25.00	13.00	33.00	12.00	521.10
MS2	1983.00	3.00	25.00	13.00	35.00	23.00	641.85
MS2	1983.00	3.00	25.00	13.00	37.00	34.00	606.41
MS2	1983.00	3.00	25.00	13.00	39.00	45.00	447.59
MS2	1983.00	3.00	25.00	13.00	41.00	56.00	622.16
MS2	1983.00	3.00	25.00	13.00	44.00	7.00	657.60
MS2	1983.00	3.00	25.00	13.00	46.00	18.00	1042.19
MS2	1983.00	3.00	25.00	13.00	48.00	29.00	1015.94
MS2	1983.00	3.00	25.00	13.00	50.00	40.00	879.43
MS2	1983.00	3.00	25.00	13.00	52.00	51.00	786.24
MS2	1983.00	3.00	25.00	13.00	55.00	2.00	703.54
MS2	1983.00	3.00	25.00	13.00	57.00	13.00	861.05
MS2	1983.00	3.00	25.00	13.00	59.00	24.00	787.55

MS2	1983.00	3.00	25.00	12.00	14.00	33.00	7.87
MS2	1983.00	3.00	25.00	12.00	16.00	44.00	5.25
MS2	1983.00	3.00	25.00	12.00	18.00	55.00	3.94
MS2	1983.00	3.00	25.00	12.00	21.00	6.00	1.31
MS2	1983.00	3.00	25.00	12.00	23.00	17.00	2.63
MS2	1983.00	3.00	25.00	12.00	25.00	28.00	1.31
MS2	1983.00	3.00	25.00	12.00	27.00	39.00	3.94
MS2	1983.00	3.00	25.00	12.00	29.00	51.00	2.63
MS2	1983.00	3.00	25.00	12.00	32.00	2.00	2.63
MS2	1983.00	3.00	25.00	12.00	34.00	13.00	1.31
MS2	1983.00	3.00	25.00	12.00	36.00	24.00	1.31
MS2	1983.00	3.00	25.00	12.00	38.00	35.00	24.94
MS2	1983.00	3.00	25.00	12.00	40.00	46.00	6.56
MS2	1983.00	3.00	25.00	12.00	42.00	57.00	1.31
MS2	1983.00	3.00	25.00	12.00	45.00	8.00	7.88
MS2	1983.00	3.00	25.00	12.00	47.00	19.00	13.13
MS2	1983.00	3.00	25.00	12.00	49.00	30.00	6.56
MS2	1983.00	3.00	25.00	12.00	51.00	41.00	1.31
MS2	1983.00	3.00	25.00	12.00	53.00	52.00	13.13
MS2	1983.00	3.00	25.00	12.00	56.00	3.00	10.50
MS2	1983.00	3.00	25.00	12.00	58.00	14.00	2.63
MS2	1983.00	3.00	25.00	13.00	0.0	26.00	11.81
MS2	1983.00	3.00	25.00	13.00	2.00	37.00	76.79
MS2	1983.00	3.00	25.00	13.00	4.00	48.00	180.48
MS2	1983.00	3.00	25.00	13.00	6.00	59.00	260.55
MS2	1983.00	3.00	25.00	13.00	9.00	10.00	272.36
MS2	1983.00	3.00	25.00	13.00	11.00	21.00	614.29
MS2	1983.00	3.00	25.00	13.00	13.00	32.00	448.90
MS2	1983.00	3.00	25.00	13.00	15.00	43.00	683.86
MS2	1983.00	3.00	25.00	13.00	17.00	54.00	955.56
MS2	1983.00	3.00	25.00	13.00	20.00	5.00	1559.35
MS2	1983.00	3.00	25.00	13.00	22.00	16.00	2045.01
MS2	1983.00	3.00	25.00	13.00	24.00	27.00	661.54
MS2	1983.00	3.00	25.00	13.00	26.00	38.00	624.79
MS2	1983.00	3.00	25.00	13.00	28.00	49.00	703.54
MS2	1983.00	3.00	25.00	13.00	31.00	0.0	641.85
MS2	1983.00	3.00	25.00	13.00	33.00	12.00	521.10
MS2	1983.00	3.00	25.00	13.00	35.00	23.00	641.85
MS2	1983.00	3.00	25.00	13.00	37.00	34.00	606.41
MS2	1983.00	3.00	25.00	13.00	39.00	45.00	447.59
MS2	1983.00	3.00	25.00	13.00	41.00	56.00	622.16
MS2	1983.00	3.00	25.00	13.00	44.00	7.00	657.60
MS2	1983.00	3.00	25.00	13.00	46.00	18.00	1042.19
MS2	1983.00	3.00	25.00	13.00	48.00	29.00	1015.94
MS2	1983.00	3.00	25.00	13.00	50.00	40.00	879.43
MS2	1983.00	3.00	25.00	13.00	52.00	51.00	786.24
MS2	1983.00	3.00	25.00	13.00	55.00	2.00	703.54
MS2	1983.00	3.00	25.00	13.00	57.00	13.00	861.05
MS2	1983.00	3.00	25.00	13.00	59.00	24.00	787.55

MS2	1983.00	3.00	26.00	0.0	0.0	6.00	897.81
MS2	1983.00	3.00	26.00	0.0	2.00	19.00	913.56
MS2	1983.00	3.00	26.00	0.0	4.00	30.00	824.30
MS2	1983.00	3.00	26.00	0.0	6.00	41.00	1391.34
M	1983.00	3.00	26.00	0.0	8.00	52.00	912.25
MS2	1983.00	3.00	26.00	0.0	11.00	3.00	301.89
MS2	1983.00	3.00	26.00	0.0	13.00	14.00	1144.57
MS2	1983.00	3.00	26.00	0.0	15.00	25.00	2898.19
MS2	1983.00	3.00	26.00	0.0	17.00	37.00	2672.42
MS2	1983.00	3.00	26.00	0.0	19.00	48.00	1974.13
MS2	1983.00	3.00	26.00	0.0	21.00	59.00	1543.60
MS2	1983.00	3.00	26.00	0.0	24.00	10.00	1346.71
MS2	1983.00	3.00	26.00	0.0	26.00	21.00	1330.96
MS2	1983.00	3.00	26.00	0.0	28.00	32.00	1299.46
MS2	1983.00	3.00	26.00	0.0	30.00	43.00	1438.59
MS2	1983.00	3.00	26.00	0.0	32.00	54.00	1596.10
MS2	1983.00	3.00	26.00	0.0	35.00	5.00	2110.63
MS2	1983.00	3.00	26.00	0.0	37.00	16.00	2441.41
MS2	1983.00	3.00	26.00	0.0	39.00	27.00	2430.91
MS2	1983.00	3.00	26.00	0.0	41.00	38.00	2425.66
MS2	1983.00	3.00	26.00	0.0	43.00	49.00	2425.66
MS2	1983.00	3.00	26.00	0.0	46.00	0.0	2415.15
MS2	1983.00	3.00	26.00	0.0	48.00	12.00	2137.64
MS2	1983.00	3.00	26.00	0.0	50.00	23.00	1543.60
MS2	1983.00	3.00	26.00	0.0	52.00	34.00	1596.10
MS2	1983.00	3.00	26.00	0.0	54.00	45.00	1609.23
MS2	1983.00	3.00	26.00	0.0	56.00	56.00	1564.60
MS2	1983.00	3.00	26.00	0.0	59.00	7.00	1493.72
MS2	1983.00	3.00	26.00	1.00	1.00	18.00	1199.70
MS2	1983.00	3.00	26.00	1.00	3.00	29.00	1152.45
MS2	1983.00	3.00	26.00	1.00	5.00	40.00	1134.07
G	1983.00	3.00	26.00	1.00	7.00	51.00	1063.19
MS2	1983.00	3.00	26.00	1.00	10.00	2.00	1207.58
MS2	1983.00	3.00	26.00	1.00	12.00	13.00	1220.70
MS2	1983.00	3.00	26.00	1.00	14.00	24.00	1391.34
MS2	1983.00	3.00	26.00	1.00	16.00	35.00	1252.20
MS2	1983.00	3.00	26.00	1.00	18.00	46.00	1338.84
MS2	1983.00	3.00	26.00	1.00	20.00	58.00	1212.83
MS2	1983.00	3.00	26.00	1.00	23.00	9.00	1089.44
MS2	1983.00	3.00	26.00	1.00	25.00	20.00	1149.82
MS2	1983.00	3.00	26.00	1.00	27.00	31.00	1152.45
MS2	1983.00	3.00	26.00	1.00	29.00	42.00	1325.71
MS2	1983.00	3.00	26.00	1.00	31.00	53.00	1438.59
MS2	1983.00	3.00	26.00	1.00	34.00	4.00	1365.09
MS2	1983.00	3.00	26.00	1.00	36.00	15.00	1451.72
MS2	1983.00	3.00	26.00	1.00	38.00	26.00	1302.08
MS2	1983.00	3.00	26.00	1.00	40.00	37.00	1320.46
MS2	1983.00	3.00	26.00	1.00	42.00	48.00	1202.33
MS2	1983.00	3.00	26.00	1.00	44.00	59.00	1307.33
MS2	1983.00	3.00	26.00	1.00	47.00	10.00	1178.70
MS2	1983.00	3.00	26.00	1.00	49.00	21.00	1149.82
MS2	1983.00	3.00	26.00	1.00	51.00	33.00	1160.32
MS2	1983.00	3.00	26.00	1.00	53.00	44.00	1210.20
MS2	1983.00	3.00	26.00	1.00	55.00	55.00	1094.69
MS2	1983.00	3.00	26.00	1.00	58.00	6.00	1152.45
	1983.00	3.00	26.00	2.00	0.0	17.00	1126.20
MS2	1983.00	3.00	26.00	2.00	2.00	28.00	1239.08
MS2	1983.00	3.00	26.00	2.00	4.00	39.00	1078.94
MS2	1983.00	3.00	26.00	2.00	6.00	50.00	997.56
MS2	1983.00	3.00	26.00	2.00	9.00	1.00	973.94
MS2	1983.00	3.00	26.00	2.00	11.00	12.00	1071.07
MS2	1983.00	3.00	26.00	2.00	13.00	23.00	955.56
MS2	1983.00	3.00	26.00	2.00	15.00	34.00	1005.44
MS2	1983.00	3.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1S2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1S2	1983.00	3.00	26.00	4.00	48.00	29.00	472.53
1S2	1983.00	3.00	26.00	4.00	50.00	40.00	468.59
1S2	1983.00	3.00	26.00	4.00	52.00	51.00	450.22
1S2	1983.00	3.00	26.00	4.00	55.00	2.00	460.72
1S2	1983.00	3.00	26.00	4.00	57.00	13.00	483.03
1S2	1983.00	3.00	26.00	4.00	59.00	24.00	492.22
1S2	1983.00	3.00	26.00	5.00	1.00	35.00	534.22
1S2	1983.00	3.00	26.00	5.00	3.00	47.00	540.78
1S2	1983.00	3.00	26.00	5.00	5.00	58.00	493.53
1S2	1983.00	3.00	26.00	5.00	8.00	9.00	620.85
1S2	1983.00	3.00	26.00	5.00	10.00	20.00	514.53
1S2	1983.00	3.00	26.00	5.00	12.00	31.00	426.59
1S2	1983.00	3.00	26.00	5.00	14.00	42.00	526.35
1S2	1983.00	3.00	26.00	5.00	16.00	53.00	670.73
1S2	1983.00	3.00	26.00	5.00	19.00	4.00	719.30
1S2	1983.00	3.00	26.00	5.00	21.00	15.00	644.48
1S2	1983.00	3.00	26.00	5.00	23.00	26.00	657.60
1S2	1983.00	3.00	26.00	5.00	25.00	37.00	542.10
1S2	1983.00	3.00	26.00	5.00	27.00	48.00	682.54
1S2	1983.00	3.00	26.00	5.00	29.00	59.00	682.54
1S2	1983.00	3.00	26.00	5.00	32.00	10.00	630.04
1S2	1983.00	3.00	26.00	5.00	34.00	21.00	652.35
1S2	1983.00	3.00	26.00	5.00	36.00	33.00	798.05
1S2	1983.00	3.00	26.00	5.00	38.00	44.00	766.55
1S2	1983.00	3.00	26.00	5.00	40.00	55.00	740.30
1S2	1983.00	3.00	26.00	5.00	43.00	6.00	703.54
1S2	1983.00	3.00	26.00	5.00	45.00	17.00	710.11
1S2	1983.00	3.00	26.00	5.00	47.00	28.00	708.79
1S2	1983.00	3.00	26.00	5.00	49.00	39.00	643.17
1S2	1983.00	3.00	26.00	5.00	51.00	50.00	662.85
1S2	1983.00	3.00	26.00	5.00	54.00	1.00	657.60
1S2	1983.00	3.00	26.00	5.00	56.00	12.00	703.54
1S2	1983.00	3.00	26.00	5.00	58.00	23.00	628.73

GMS2	1983.00	6.00	4.00	5.00	0.0	56.00	4714.80
GMS2	1983.00	6.00	4.00	5.00	3.00	7.00	4717.80
GMS2	1983.00	6.00	4.00	5.00	5.00	18.00	4777.80
GMS2	1983.00	6.00	4.00	5.00	7.00	29.00	5050.82
GMS2	1983.00	6.00	4.00	5.00	9.00	40.00	5323.84
GMS2	1983.00	6.00	4.00	5.00	11.00	51.00	5281.84
GMS2	1983.00	6.00	4.00	5.00	14.00	2.00	5596.86
GMS2	1983.00	6.00	4.00	5.00	16.00	13.00	5827.87
GMS2	1983.00	6.00	4.00	5.00	18.00	24.00	5575.85
GMS2	1983.00	6.00	4.00	5.00	20.00	35.00	5386.84
GMS2	1983.00	6.00	4.00	5.00	22.00	46.00	5281.84
GMS2	1983.00	6.00	4.00	5.00	24.00	58.00	5176.83
GMS2	1983.00	6.00	4.00	5.00	27.00	9.00	4777.80
GMS2	1983.00	6.00	4.00	5.00	29.00	20.00	4669.79
GMS2	1983.00	6.00	4.00	5.00	31.00	31.00	4501.79
GMS2	1983.00	6.00	4.00	5.00	33.00	42.00	4504.78
GMS2	1983.00	6.00	4.00	5.00	35.00	53.00	4399.78
GMS2	1983.00	6.00	4.00	5.00	38.00	4.00	4483.78
GMS2	1983.00	6.00	4.00	5.00	40.00	15.00	4588.79
GMS2	1983.00	6.00	4.00	5.00	42.00	26.00	4651.79
GMS2	1983.00	6.00	4.00	5.00	44.00	37.00	4645.79
GMS2	1983.00	6.00	4.00	5.00	46.00	48.00	4798.80
GMS2	1983.00	6.00	4.00	5.00	48.00	59.00	4630.79
GMS2	1983.00	6.00	4.00	5.00	51.00	10.00	4651.79
GMS2	1983.00	6.00	4.00	5.00	53.00	21.00	4882.81
GMS2	1983.00	6.00	4.00	5.00	55.00	32.00	4546.79
GMS2	1983.00	6.00	4.00	5.00	57.00	44.00	4840.80
GMS2	1983.00	6.00	4.00	5.00	59.00	55.00	4903.81
GMS2	1983.00	6.00	4.00	6.00	2.00	6.00	5005.82
GMS2	1983.00	6.00	4.00	6.00	4.00	17.00	4837.80
GMS2	1983.00	6.00	4.00	6.00	6.00	28.00	5008.82
GMS2	1983.00	6.00	4.00	6.00	8.00	39.00	5134.32
GMS2	1983.00	6.00	4.00	6.00	10.00	50.00	4340.80
GMS2	1983.00	6.00	4.00	6.00	13.00	1.00	4924.81
GMS2	1983.00	6.00	4.00	6.00	15.00	12.00	4924.81
GMS2	1983.00	6.00	4.00	6.00	17.00	23.00	4777.80
GMS2	1983.00	6.00	4.00	6.00	19.00	34.00	4672.79
GMS2	1983.00	6.00	4.00	6.00	21.00	45.00	4567.79
GMS2	1983.00	6.00	4.00	6.00	23.00	56.00	4630.79
GMS2	1983.00	6.00	4.00	6.00	26.00	7.00	4588.79
GMS2	1983.00	6.00	4.00	6.00	28.00	19.00	4588.79
GMS2	1983.00	6.00	4.00	6.00	30.00	30.00	4672.79
GMS2	1983.00	6.00	4.00	6.00	32.00	41.00	4546.79
GMS2	1983.00	6.00	4.00	6.00	34.00	52.00	4525.79
GMS2	1983.00	6.00	4.00	6.00	37.00	3.00	4525.79
GMS2	1983.00	6.00	4.00	6.00	39.00	14.00	4294.77
GMS2	1983.00	6.00	4.00	6.00	41.00	25.00	4261.77
GMS2	1983.00	6.00	4.00	6.00	43.00	36.00	4429.78
GMS2	1983.00	6.00	4.00	6.00	45.00	47.00	4189.76
GMS2	1983.00	6.00	4.00	6.00	47.00	58.00	4147.76
GMS2	1983.00	6.00	4.00	6.00	50.00	9.00	4252.77
GMS2	1983.00	6.00	4.00	6.00	52.00	20.00	4315.77
GMS2	1983.00	6.00	4.00	6.00	54.00	31.00	4105.76
GMS2	1983.00	6.00	4.00	6.00	56.00	42.00	4126.76
GMS2	1983.00	6.00	4.00	6.00	58.00	53.00	4093.76
GMS2	1983.00	6.00	4.00	7.00	1.00	5.00	4231.77
GMS2	1983.00	6.00	4.00	7.00	3.00	16.00	4315.77
GMS2	1983.00	6.00	4.00	7.00	5.00	27.00	4168.76
GMS2	1983.00	6.00	4.00	7.00	7.00	38.00	4273.77
GMS2	1983.00	6.00	4.00	7.00	9.00	49.00	4126.76
GMS2	1983.00	6.00	4.00	7.00	12.00	0.0	4189.76
GMS2	1983.00	6.00	4.00	7.00	14.00	11.00	4189.76
GMS2	1983.00	6.00	4.00	7.00	16.00	22.00	4045.76

S2	1983.00	6.00	4.00	7.00	25.00	6.00	3895.75
S2	1983.00	6.00	4.00	7.00	27.00	17.00	3979.75
S2	1983.00	6.00	4.00	7.00	29.00	28.00	3979.75
S2	1983.00	6.00	4.00	7.00	31.00	40.00	3811.74
S2	1983.00	6.00	4.00	7.00	33.00	51.00	3769.74
S2	1983.00	6.00	4.00	7.00	35.00	2.00	3832.75
S2	1983.00	6.00	4.00	7.00	38.00	13.00	3937.75
S2	1983.00	6.00	4.00	7.00	40.00	24.00	3874.75
S2	1983.00	6.00	4.00	7.00	42.00	35.00	3958.75
S2	1983.00	6.00	4.00	7.00	44.00	46.00	3895.75
S2	1983.00	6.00	4.00	7.00	46.00	57.00	3916.75
S2	1983.00	6.00	4.00	7.00	49.00	8.00	3727.74
S2	1983.00	6.00	4.00	7.00	51.00	19.00	3769.74
S2	1983.00	6.00	4.00	7.00	53.00	30.00	3496.72
S2	1983.00	6.00	4.00	7.00	55.00	41.00	3496.72
S2	1983.00	6.00	4.00	7.00	57.00	52.00	3601.73
S2	1983.00	6.00	4.00	8.00	0.0	3.00	3454.72
S2	1983.00	6.00	4.00	8.00	2.00	14.00	3349.71
S2	1983.00	6.00	4.00	8.00	4.00	26.00	3454.72
S2	1983.00	6.00	4.00	8.00	6.00	37.00	3541.73
S2	1983.00	6.00	4.00	8.00	8.00	48.00	3805.74
S2	1983.00	6.00	4.00	8.00	10.00	59.00	3901.75
S2	1983.00	6.00	4.00	8.00	13.00	10.00	4000.76
S2	1983.00	6.00	4.00	8.00	15.00	21.00	4063.76
S2	1983.00	6.00	4.00	8.00	17.00	32.00	4165.76
S2	1983.00	6.00	4.00	8.00	19.00	43.00	4294.77
S2	1983.00	6.00	4.00	8.00	21.00	54.00	4084.76
S2	1983.00	6.00	4.00	8.00	24.00	5.00	3916.75
S2	1983.00	6.00	4.00	8.00	26.00	16.00	3979.75
S2	1983.00	6.00	4.00	8.00	28.00	28.00	3958.75
S2	1983.00	6.00	4.00	8.00	30.00	39.00	3874.75
S2	1983.00	6.00	4.00	8.00	32.00	50.00	3958.75
S2	1983.00	6.00	4.00	8.00	35.00	1.00	4126.76
S2	1983.00	6.00	4.00	8.00	37.00	13.00	4021.76
S2	1983.00	6.00	4.00	8.00	39.00	24.00	4189.76
S2	1983.00	6.00	4.00	8.00	41.00	35.00	4245.77
S2	1983.00	6.00	4.00	8.00	43.00	45.00	4189.76
S2	1983.00	6.00	4.00	8.00	45.00	56.00	4273.77
S2	1983.00	6.00	4.00	8.00	48.00	7.00	4126.76
S2	1983.00	6.00	4.00	8.00	50.00	18.00	4105.76
S2	1983.00	6.00	4.00	8.00	52.00	29.00	3829.74
S2	1983.00	6.00	4.00	8.00	54.00	40.00	3748.74
S2	1983.00	6.00	4.00	8.00	56.00	51.00	3790.74
S2	1983.00	6.00	4.00	8.00	59.00	2.00	3979.75
S2	1983.00	6.00	4.00	9.00	1.00	13.00	4021.76
S2	1983.00	6.00	4.00	9.00	3.00	24.00	3937.75
S2	1983.00	6.00	4.00	9.00	5.00	35.00	3601.73
S2	1983.00	6.00	4.00	9.00	7.00	47.00	3877.75
S2	1983.00	6.00	4.00	9.00	9.00	58.00	3805.74
S2	1983.00	6.00	4.00	9.00	12.00	9.00	3874.75
S2	1983.00	6.00	4.00	9.00	14.00	20.00	3781.74
S2	1983.00	6.00	4.00	9.00	16.00	31.00	3643.73
S2	1983.00	6.00	4.00	9.00	18.00	42.00	3685.74
S2	1983.00	6.00	4.00	9.00	20.00	53.00	3559.73
S2	1983.00	6.00	4.00	9.00	23.00	4.00	3685.74
S2	1983.00	6.00	4.00	9.00	25.00	15.00	3748.74
S2	1983.00	6.00	4.00	9.00	27.00	26.00	3685.74
MS2	1983.00	6.00	4.00	9.00	29.00	37.00	3790.74
MS2	1983.00	6.00	4.00	9.00	31.00	48.00	3901.75
MS2	1983.00	6.00	4.00	9.00	33.00	59.00	3853.75
MS2	1983.00	6.00	4.00	9.00	36.00	10.00	3958.75
MS2	1983.00	6.00	4.00	9.00	38.00	21.00	4021.76
MS2	1983.00	6.00	4.00	9.00	40.00	33.00	3895.75

S2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
S2	1983.00	6.00	[illegible]	9.00	49.00	17.00	3958.75
S2	1983.00	6.00	[illegible]	9.00	51.00	28.00	3979.75
S2	1983.00	6.00	4.00	9.00	53.00	39.00	4105.76
S2	1983.00	6.00	[illegible]	9.00	55.00	50.00	3937.75
S2	1983.00	6.00	[illegible]	9.00	58.00	1.00	3958.75

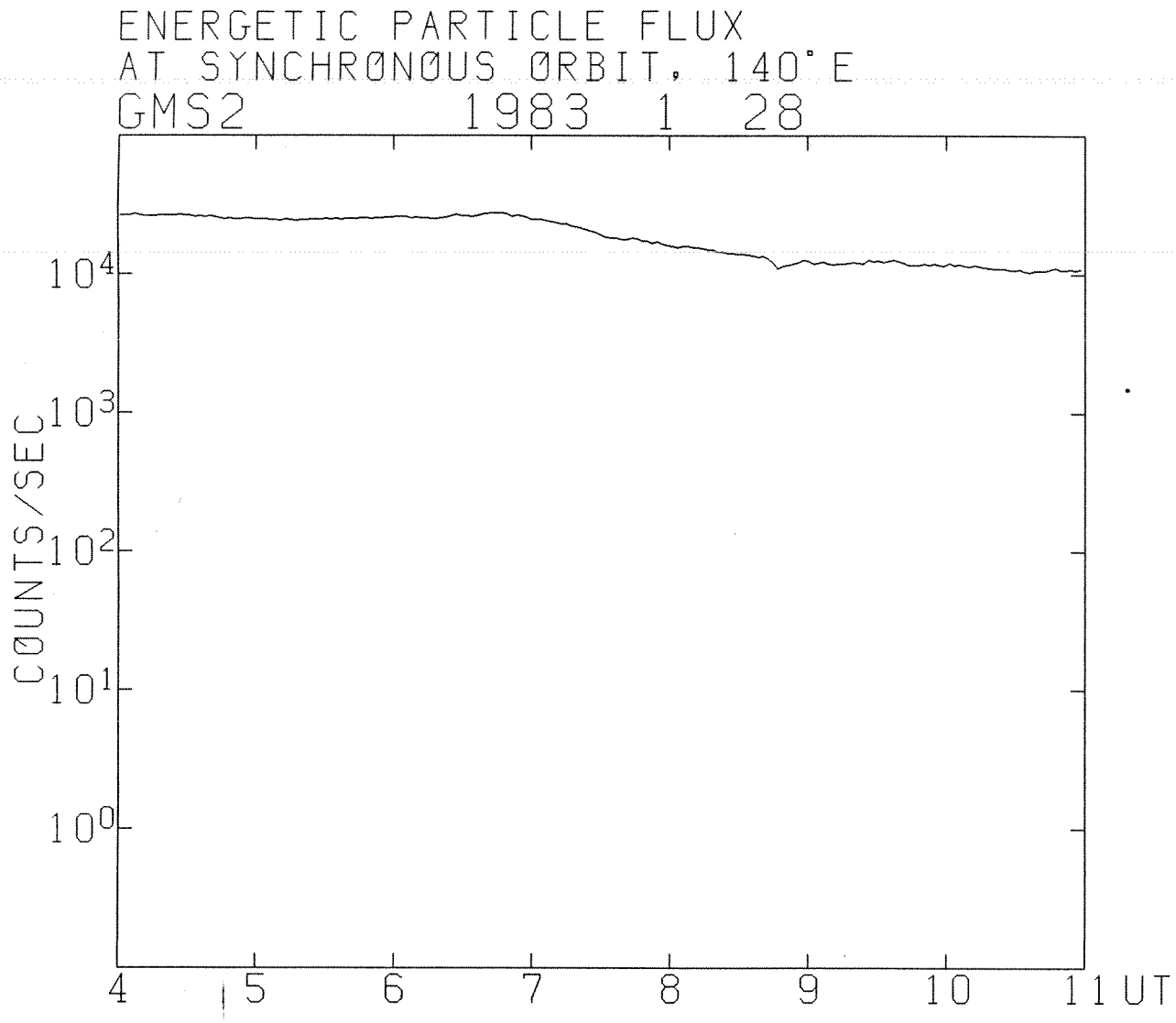
S2	1983.00	6.00	27.00	15.00	0.0	28.00	1837.62
S2	1983.00	6.00	27.00	15.00	2.00	39.00	1785.11
S2	1983.00	6.00	27.00	15.00	4.00	50.00	1732.61
S2	1983.00	6.00	27.00	15.00	7.00	1.00	1785.11
S2	1983.00	6.00	27.00	15.00	9.00	12.00	1764.11
S2	1983.00	6.00	27.00	15.00	11.00	23.00	1879.62
S2	1983.00	6.00	27.00	15.00	13.00	34.00	1995.13
S2	1983.00	6.00	27.00	15.00	15.00	45.00	1806.12
S2	1983.00	6.00	27.00	15.00	17.00	56.00	1869.12
S2	1983.00	6.00	27.00	15.00	20.00	8.00	1897.62
S2	1983.00	6.00	27.00	15.00	22.00	19.00	1932.12
S2	1983.00	6.00	27.00	15.00	24.00	30.00	1858.62
S2	1983.00	6.00	27.00	15.00	26.00	41.00	1974.13
S2	1983.00	6.00	27.00	15.00	28.00	52.00	1953.12
S2	1983.00	6.00	27.00	15.00	31.00	3.00	1837.62
S2	1983.00	6.00	27.00	15.00	33.00	14.00	1953.12
S2	1983.00	6.00	27.00	15.00	35.00	25.00	1911.12
S2	1983.00	6.00	27.00	15.00	37.00	36.00	1995.13
S2	1983.00	6.00	27.00	15.00	39.00	47.00	1953.12
S2	1983.00	6.00	27.00	15.00	41.00	58.00	1995.13
S2	1983.00	6.00	27.00	15.00	44.00	9.00	2131.64
S2	1983.00	6.00	27.00	15.00	46.00	20.00	2068.63
S2	1983.00	6.00	27.00	15.00	48.00	31.00	1995.13
S2	1983.00	6.00	27.00	15.00	50.00	42.00	1890.12
S2	1983.00	6.00	27.00	15.00	52.00	54.00	2037.13
S2	1983.00	6.00	27.00	15.00	55.00	5.00	1942.62
S2	1983.00	6.00	27.00	15.00	57.00	16.00	1995.13
S2	1983.00	6.00	27.00	15.00	59.00	27.00	1984.63
S2	1983.00	6.00	27.00	16.00	1.00	38.00	1984.63
S2	1983.00	6.00	27.00	16.00	3.00	49.00	1963.63
S2	1983.00	6.00	27.00	16.00	6.00	0.0	1974.13
S2	1983.00	6.00	27.00	16.00	8.00	11.00	1932.12
S2	1983.00	6.00	27.00	16.00	10.00	22.00	1911.12
S2	1983.00	6.00	27.00	16.00	12.00	33.00	1858.62
S2	1983.00	6.00	27.00	16.00	14.00	44.00	1753.61
S2	1983.00	6.00	27.00	16.00	16.00	55.00	1806.12
S2	1983.00	6.00	27.00	16.00	19.00	6.00	1743.11
S2	1983.00	6.00	27.00	16.00	21.00	17.00	1911.12
S2	1983.00	6.00	27.00	16.00	23.00	28.00	1816.62
S2	1983.00	6.00	27.00	16.00	25.00	40.00	1837.62
S2	1983.00	6.00	27.00	16.00	27.00	51.00	1764.11
S2	1983.00	6.00	27.00	16.00	30.00	2.00	1732.61
S2	1983.00	6.00	27.00	16.00	32.00	13.00	1711.61
S2	1983.00	6.00	27.00	16.00	34.00	24.00	1743.11
S2	1983.00	6.00	27.00	16.00	36.00	35.00	1837.62
S2	1983.00	6.00	27.00	16.00	38.00	46.00	1848.12
S2	1983.00	6.00	27.00	16.00	40.00	57.00	1861.62
S2	1983.00	6.00	27.00	16.00	43.00	8.00	1869.12
S2	1983.00	6.00	27.00	16.00	45.00	19.00	1753.61
S2	1983.00	6.00	27.00	16.00	47.00	30.00	1764.11
S2	1983.00	6.00	27.00	16.00	49.00	41.00	1837.62
S2	1983.00	6.00	27.00	16.00	51.00	52.00	1722.11
S2	1983.00	6.00	27.00	16.00	54.00	3.00	1701.11
S2	1983.00	6.00	27.00	16.00	56.00	15.00	1785.11
S2	1983.00	6.00	27.00	16.00	58.00	26.00	1890.12
S2	1983.00	6.00	27.00	17.00	0.0	37.00	1732.61
S2	1983.00	6.00	27.00	17.00	2.00	48.00	1690.61
S2	1983.00	6.00	27.00	17.00	4.00	59.00	1764.11
S2	1983.00	6.00	27.00	17.00	7.00	10.00	1648.61
S2	1983.00	6.00	27.00	17.00	9.00	21.00	1732.61
S2	1983.00	6.00	27.00	17.00	11.00	32.00	1711.61
S2	1983.00	6.00	27.00	17.00	13.00	43.00	1701.11
S2	1983.00	6.00	27.00	17.00	15.00	54.00	1743.11

GMS2	1983.00	6.00	27.00	17.00	24.00	38.00	1753.61
GMS2	1983.00	6.00	27.00	17.00	25.00	49.00	1743.11
GMS2	1983.00	6.00	27.00	17.00	29.00	1.00	1722.11
GMS2	1983.00	6.00	27.00	17.00	31.00	12.00	1711.61
GMS2	1983.00	6.00	27.00	17.00	33.00	23.00	1512.10
GMS2	1983.00	6.00	27.00	17.00	35.00	34.00	1575.10
GMS2	1983.00	6.00	27.00	17.00	37.00	45.00	1554.10
GMS2	1983.00	6.00	27.00	17.00	39.00	56.00	1483.22
GMS2	1983.00	6.00	27.00	17.00	42.00	7.00	1396.59
GMS2	1983.00	6.00	27.00	17.00	44.00	18.00	1357.21
GMS2	1983.00	6.00	27.00	17.00	46.00	29.00	1435.97
GMS2	1983.00	6.00	27.00	17.00	48.00	40.00	1598.73
GMS2	1983.00	6.00	27.00	17.00	50.00	51.00	1795.61
GMS2	1983.00	6.00	27.00	17.00	53.00	2.00	2058.13
GMS2	1983.00	6.00	27.00	17.00	55.00	13.00	2026.63
GMS2	1983.00	6.00	27.00	17.00	57.00	24.00	2026.63
GMS2	1983.00	6.00	27.00	17.00	59.00	36.00	2016.13
GMS2	1983.00	6.00	27.00	18.00	1.00	47.00	2294.40
GMS2	1983.00	6.00	27.00	18.00	3.00	58.00	2509.66
GMS2	1983.00	6.00	27.00	18.00	6.00	9.00	2430.91
GMS2	1983.00	6.00	27.00	18.00	8.00	20.00	2609.42
GMS2	1983.00	6.00	27.00	18.00	10.00	31.00	2646.17
GMS2	1983.00	6.00	27.00	18.00	12.00	42.00	2850.93
GMS2	1983.00	6.00	27.00	18.00	14.00	53.00	2866.68
GMS2	1983.00	6.00	27.00	18.00	17.00	4.00	3081.95
GMS2	1983.00	6.00	27.00	18.00	19.00	15.00	3076.70
GMS2	1983.00	6.00	27.00	18.00	21.00	26.00	3097.70
GMS2	1983.00	6.00	27.00	18.00	23.00	37.00	2971.69
GMS2	1983.00	6.00	27.00	18.00	25.00	48.00	3034.69
GMS2	1983.00	6.00	27.00	18.00	27.00	59.00	3157.70
GMS2	1983.00	6.00	27.00	18.00	30.00	10.00	3181.70
GMS2	1983.00	6.00	27.00	18.00	32.00	22.00	3081.95
GMS2	1983.00	6.00	27.00	18.00	34.00	33.00	3034.69
GMS2	1983.00	6.00	27.00	18.00	36.00	44.00	2950.69
GMS2	1983.00	6.00	27.00	18.00	38.00	55.00	2892.93
GMS2	1983.00	6.00	27.00	18.00	41.00	6.00	2787.93
GMS2	1983.00	6.00	27.00	18.00	43.00	17.00	2961.19
GMS2	1983.00	6.00	27.00	18.00	45.00	28.00	2992.69
GMS2	1983.00	6.00	27.00	18.00	47.00	39.00	2871.93
GMS2	1983.00	6.00	27.00	18.00	49.00	50.00	2976.94
GMS2	1983.00	6.00	27.00	18.00	52.00	1.00	3223.71
GMS2	1983.00	6.00	27.00	18.00	54.00	12.00	3055.70
GMS2	1983.00	6.00	27.00	18.00	56.00	23.00	3202.70
GMS2	1983.00	6.00	27.00	18.00	58.00	34.00	3034.69
GMS2	1983.00	6.00	27.00	19.00	0.0	45.00	3034.69
GMS2	1983.00	6.00	27.00	19.00	2.00	56.00	3181.70
GMS2	1983.00	6.00	27.00	19.00	5.00	6.00	3412.72
GMS2	1983.00	6.00	27.00	19.00	7.00	19.00	3454.72
GMS2	1983.00	6.00	27.00	19.00	9.00	30.00	3328.71
GMS2	1983.00	6.00	27.00	19.00	11.00	41.00	3349.71
GMS2	1983.00	6.00	27.00	19.00	13.00	52.00	3496.72
GMS2	1983.00	6.00	27.00	19.00	15.00	3.00	3496.72
GMS2	1983.00	6.00	27.00	19.00	18.00	14.00	3601.73
GMS2	1983.00	6.00	27.00	19.00	20.00	25.00	3622.73
GMS2	1983.00	6.00	27.00	19.00	22.00	36.00	3580.73
GMS2	1983.00	6.00	27.00	19.00	24.00	47.00	3601.73
GMS2	1983.00	6.00	27.00	19.00	26.00	58.00	3538.73
GMS2	1983.00	6.00	27.00	19.00	29.00	9.00	3517.73
GMS2	1983.00	6.00	27.00	19.00	31.00	20.00	3637.73
GMS2	1983.00	6.00	27.00	19.00	33.00	31.00	3475.72
GMS2	1983.00	6.00	27.00	19.00	35.00	43.00	3538.73
GMS2	1983.00	6.00	27.00	19.00	37.00	54.00	3559.73
GMS2	1983.00	6.00	27.00	19.00	40.00	5.00	3475.72

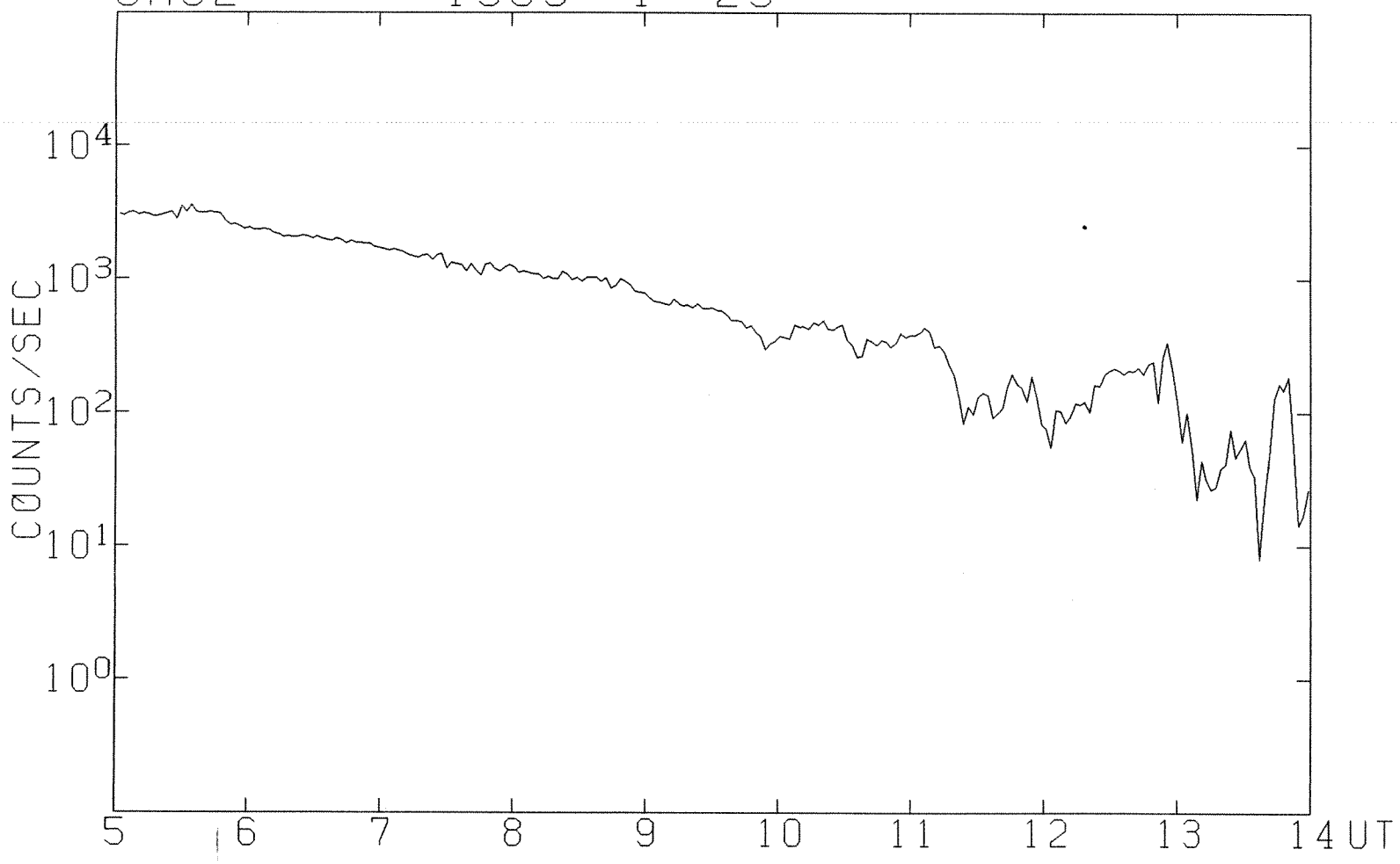
52	1983.00	6.00	27.00	19.00	48.00	49.00	3473.72
52	1983.00	6.00	27.00	19.00	51.00	0.0	3454.72
52	1983.00	6.00	27.00	19.00	53.00	11.00	3493.72
52	1983.00	6.00	27.00	19.00	55.00	22.00	3769.74
52	1983.00	6.00	27.00	19.00	57.00	33.00	3748.74
52	1983.00	6.00	27.00	19.00	59.00	44.00	3664.73
52	1983.00	6.00	27.00	19.00	59.00	44.00	3874.75
52	1983.00	6.00	27.00	20.00	1.00	55.00	3874.75
52	1983.00	6.00	27.00	20.00	4.00	6.00	3874.75
52	1983.00	6.00	27.00	20.00	6.00	17.00	3832.75
52	1983.00	6.00	27.00	20.00	8.00	29.00	3895.75
52	1983.00	6.00	27.00	20.00	10.00	40.00	3832.75
52	1983.00	6.00	27.00	20.00	12.00	51.00	4000.76
52	1983.00	6.00	27.00	20.00	15.00	2.00	4273.77
52	1983.00	6.00	27.00	20.00	17.00	13.00	4210.77
52	1983.00	6.00	27.00	20.00	19.00	24.00	4189.76
52	1983.00	6.00	27.00	20.00	21.00	35.00	4315.77
52	1983.00	6.00	27.00	20.00	23.00	46.00	4210.77
52	1983.00	6.00	27.00	20.00	25.00	57.00	4252.77
52	1983.00	6.00	27.00	20.00	28.00	8.00	4210.77
52	1983.00	6.00	27.00	20.00	30.00	19.00	4294.77
52	1983.00	6.00	27.00	20.00	32.00	30.00	4252.77
52	1983.00	6.00	27.00	20.00	34.00	41.00	4525.79
52	1983.00	6.00	27.00	20.00	36.00	52.00	4273.77
52	1983.00	6.00	27.00	20.00	39.00	3.00	4567.79
52	1983.00	6.00	27.00	20.00	41.00	15.00	4735.80
52	1983.00	6.00	27.00	20.00	43.00	26.00	4861.81
52	1983.00	6.00	27.00	20.00	45.00	37.00	4525.79
52	1983.00	6.00	27.00	20.00	47.00	48.00	4714.80
52	1983.00	6.00	27.00	20.00	49.00	59.00	4735.80
52	1983.00	6.00	27.00	20.00	52.00	10.00	4672.79
52	1983.00	6.00	27.00	20.00	54.00	21.00	4903.81
52	1983.00	6.00	27.00	20.00	56.00	32.00	4777.80
52	1983.00	6.00	27.00	20.00	58.00	43.00	4909.81
52	1983.00	6.00	27.00	21.00	0.0	54.00	4882.81
52	1983.00	6.00	27.00	21.00	3.00	5.00	4945.81
52	1983.00	6.00	27.00	21.00	5.00	16.00	4882.81
52	1983.00	6.00	27.00	21.00	7.00	27.00	4966.82
52	1983.00	6.00	27.00	21.00	9.00	38.00	4924.81
52	1983.00	6.00	27.00	21.00	11.00	50.00	4903.81
52	1983.00	6.00	27.00	21.00	14.00	1.00	5008.82
52	1983.00	6.00	27.00	21.00	16.00	12.00	4945.81
52	1983.00	6.00	27.00	21.00	18.00	23.00	5113.82
52	1983.00	6.00	27.00	21.00	20.00	34.00	5134.82
52	1983.00	6.00	27.00	21.00	22.00	45.00	5260.83
52	1983.00	6.00	27.00	21.00	24.00	56.00	5071.82
52	1983.00	6.00	27.00	21.00	27.00	7.00	5197.83
52	1983.00	6.00	27.00	21.00	29.00	18.00	5176.83
52	1983.00	6.00	27.00	21.00	31.00	29.00	5470.85
52	1983.00	6.00	27.00	21.00	33.00	40.00	5260.83
52	1983.00	6.00	27.00	21.00	35.00	51.00	5197.83
52	1983.00	6.00	27.00	21.00	38.00	2.00	5323.84
52	1983.00	6.00	27.00	21.00	40.00	13.00	5533.85
52	1983.00	6.00	27.00	21.00	42.00	24.00	5554.85
52	1983.00	6.00	27.00	21.00	44.00	36.00	5302.84
52	1983.00	6.00	27.00	21.00	46.00	47.00	5386.84
52	1983.00	6.00	27.00	21.00	48.00	58.00	5302.84
52	1983.00	6.00	27.00	21.00	51.00	9.00	5260.83
52	1983.00	6.00	27.00	21.00	53.00	20.00	5281.84
52	1983.00	6.00	27.00	21.00	55.00	31.00	5281.84
52	1983.00	6.00	27.00	21.00	57.00	42.00	5239.83
52	1983.00	6.00	27.00	21.00	59.00	53.00	5449.84

[illegible]	1983.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1S2	1983.00	6.00	27.[illegible]	22.00	12.00	59.00	5784.85
1S2	1983.00	6.00	27.00	22.00	15.00	11.00	5575.85
1S2	1983.00	6.00	27.00	22.00	17.00	22.00	5449.84
1S2	1983.00	6.00	27.00	22.00	19.00	33.00	5428.84
1S2	1983.00	6.00	27.00	22.00	21.00	44.00	5735.87
1S2	1983.00	6.00	27.00	22.00	23.00	55.00	5890.87
1S2	1983.00	6.00	27.00	22.00	26.00	6.00	5722.86
1S2	1983.00	6.00	27.00	22.00	28.00	17.00	5827.87
1S2	1983.00	6.00	27.00	22.00	30.00	28.00	5890.87
1S2	1983.00	6.00	27.00	22.00	32.00	39.00	5848.87
1S2	1983.00	6.00	27.00	22.00	34.00	50.00	5869.87
1S2	1983.00	6.00	27.00	22.00	37.00	1.00	5701.86
1S2	1983.00	6.00	27.00	22.00	39.00	12.00	5827.87
1S2	1983.00	6.00	27.00	22.00	41.00	23.00	6142.89
1S2	1983.00	6.00	27.00	22.00	43.00	34.00	6604.92
1S2	1983.00	6.00	27.00	22.00	45.00	45.00	6877.94
1S2	1983.00	6.00	27.00	22.00	47.00	57.00	6751.93
1S2	1983.00	6.00	27.00	22.00	50.00	8.00	6982.95
1S2	1983.00	6.00	27.00	22.00	52.00	19.00	7549.98
1S2	1983.00	6.00	27.00	22.00	54.00	30.00	7633.98
1S2	1983.00	6.00	27.00	22.00	56.00	41.00	7991.01
1S2	1983.00	6.00	27.00	22.00	58.00	52.00	7970.00
1S2	1983.00	6.00	27.00	23.00	1.00	3.00	7865.00
1S2	1983.00	6.00	27.00	23.00	3.00	14.00	7507.98
1S2	1983.00	6.00	27.00	23.00	5.00	25.00	8285.02
1S2	1983.00	6.00	27.00	23.00	7.00	36.00	9083.08
1S2	1983.00	6.00	27.00	23.00	9.00	47.00	8075.01
1S2	1983.00	6.00	27.00	23.00	11.00	58.00	7570.98
1S2	1983.00	6.00	27.00	23.00	14.00	9.00	7360.97
1S2	1983.00	6.00	27.00	23.00	16.00	20.00	7331.97
1S2	1983.00	6.00	27.00	23.00	18.00	31.00	7339.96
1S2	1983.00	6.00	27.00	23.00	20.00	43.00	7717.99
1S2	1983.00	6.00	27.00	23.00	22.00	54.00	8159.02
1S2	1983.00	6.00	27.00	23.00	25.00	5.00	7949.00
1S2	1983.00	6.00	27.00	23.00	27.00	16.00	8138.02
1S2	1983.00	6.00	27.00	23.00	29.00	27.00	7738.99
1S2	1983.00	6.00	27.00	23.00	31.00	38.00	7465.97
1S2	1983.00	6.00	27.00	23.00	33.00	49.00	7633.98
1S2	1983.00	6.00	27.00	23.00	36.00	0.0	8033.01
1S2	1983.00	6.00	27.00	23.00	38.00	11.00	8411.03
1S2	1983.00	6.00	27.00	23.00	40.00	22.00	8747.06
1S2	1983.00	6.00	27.00	23.00	42.00	33.00	8117.02
1S2	1983.00	6.00	27.00	23.00	44.00	44.00	8096.01
1S2	1983.00	6.00	27.00	23.00	46.00	55.00	8621.05
1S2	1983.00	6.00	27.00	23.00	49.00	6.00	8516.04
1S2	1983.00	6.00	27.00	23.00	51.00	18.00	8852.06
1S2	1983.00	6.00	27.00	23.00	53.00	29.00	9251.09
1S2	1983.00	6.00	27.00	23.00	55.00	40.00	9797.12
1S2	1983.00	6.00	27.00	23.00	57.00	51.00	10091.14
1S2	1983.00	6.00	28.00	0.0	0.0	2.00	9671.11
1S2	1983.00	6.00	28.00	0.0	2.00	13.00	10007.14
1S2	1983.00	6.00	28.00	0.0	4.00	24.00	10091.14
1S2	1983.00	6.00	28.00	0.0	6.00	35.00	10049.14
1S2	1983.00	6.00	28.00	0.0	8.00	46.00	9839.12
1S2	1983.00	6.00	28.00	0.0	10.00	57.00	9860.12
1S2	1983.00	6.00	28.00	0.0	13.00	8.00	9818.12
1S2	1983.00	6.00	28.00	0.0	15.00	19.00	9251.09
1S2	1983.00	6.00	28.00	0.0	17.00	30.00	9398.10
1S2	1983.00	6.00	28.00	0.0	19.00	41.00	9188.09
1S2	1983.00	6.00	28.00	0.0	21.00	52.00	9986.13
1S2	1983.00	6.00	28.00	0.0	24.00	4.00	11073.21
1S2	1983.00	6.00	28.00	0.0	26.00	15.00	12128.27
1S2	1983.00	6.00	[illegible]	0.0	28.00	26.00	12831.82

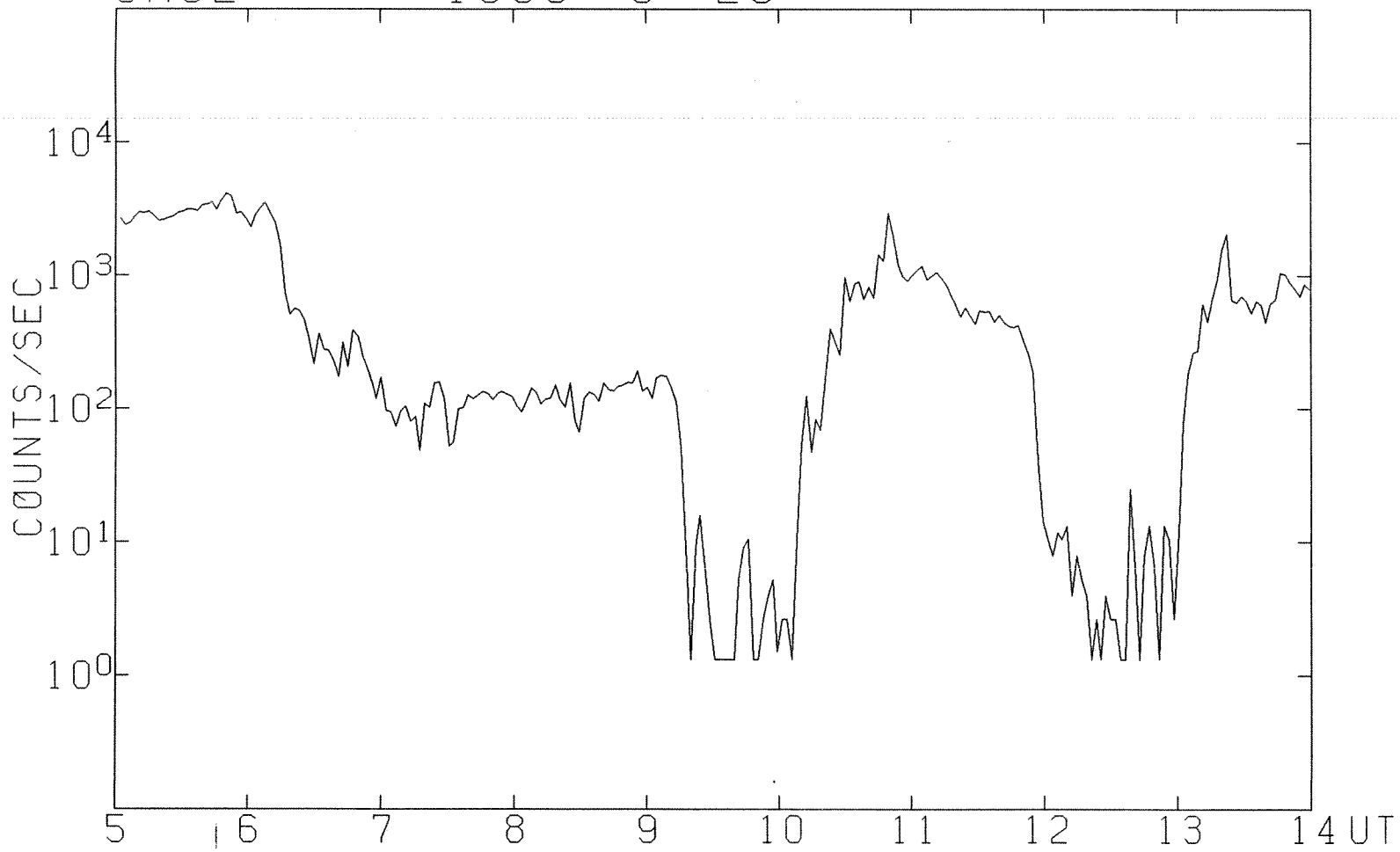
S2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15211.2[illegible]
S2	1983.00	6.00	28.00	0.0	37.00	10.00	2457.16
S2	1983.00	6.00	28.00	0.0	39.00	21.00	2520.16
S2	1983.00	6.00	28.00	0.0	41.00	32.00	2488.66
S2	1983.00	6.00	28.00	0.0	43.00	43.00	2520.16
S2	1983.00	6.00	28.00	0.0	45.00	54.00	2588.42
S2	1983.00	6.00	28.00	0.0	48.00	5.00	2446.66
S2	1983.00	6.00	28.00	0.0	50.00	16.00	13913.39
S2	1983.00	6.00	28.00	0.0	52.00	27.00	13755.88
S2	1983.00	6.00	28.00	0.0	54.00	39.00	13545.86
S2	1983.00	6.00	28.00	0.0	56.00	50.00	13010.33
S2	1983.00	6.00	28.00	0.0	59.00	1.00	12569.30
S2	1983.00	6.00	28.00	1.00	1.00	12.00	13031.33
S2	1983.00	6.00	28.00	1.00	3.00	23.00	12569.30
S2	1983.00	6.00	28.00	1.00	5.00	34.00	13020.83
S2	1983.00	6.00	28.00	1.00	7.00	45.00	13199.34
S2	1983.00	6.00	28.00	1.00	9.00	56.00	12390.79
S2	1983.00	6.00	28.00	1.00	12.00	7.00	12779.32
S2	1983.00	6.00	28.00	1.00	14.00	18.00	12275.28
S2	1983.00	6.00	28.00	1.00	16.00	29.00	11561.23
S2	1983.00	6.00	28.00	1.00	18.00	40.00	12254.28
S2	1983.00	6.00	28.00	1.00	20.00	51.00	12611.30
S2	1983.00	6.00	28.00	1.00	23.00	2.00	12495.80
S2	1983.00	6.00	28.00	1.00	25.00	13.00	12884.32
S2	1983.00	6.00	28.00	1.00	27.00	25.00	12957.82
S2	1983.00	6.00	28.00	1.00	29.00	36.00	12716.31
S2	1983.00	6.00	28.00	1.00	31.00	47.00	13020.83
S2	1983.00	6.00	28.00	1.00	33.00	58.00	12642.80
S2	1983.00	6.00	28.00	1.00	36.00	9.00	13104.83
S2	1983.00	6.00	28.00	1.00	38.00	20.00	12747.81
S2	1983.00	6.00	28.00	1.00	40.00	31.00	12684.81
S2	1983.00	6.00	28.00	1.00	42.00	42.00	12768.81
S2	1983.00	6.00	28.00	1.00	44.00	53.00	12485.29
S2	1983.00	6.00	28.00	1.00	47.00	4.00	12233.28
S2	1983.00	6.00	28.00	1.00	49.00	15.00	12044.27
S2	1983.00	6.00	28.00	1.00	51.00	26.00	12348.79
S2	1983.00	6.00	28.00	1.00	53.00	37.00	11970.76
S2	1983.00	6.00	28.00	1.00	55.00	48.00	12275.28
S2	1983.00	6.00	28.00	1.00	57.00	59.00	12201.78
S2	1983.00	6.00	28.00	2.00	0.0	11.00	11960.26
S2	1983.00	6.00	28.00	2.00	2.00	22.00	11561.23
S2	1983.00	6.00	28.00	2.00	4.00	33.00	11540.23
S2	1983.00	6.00	28.00	2.00	6.00	44.00	11582.24
S2	1983.00	6.00	28.00	2.00	8.00	55.00	11330.22
S2	1983.00	6.00	28.00	2.00	11.00	6.00	11645.24
S2	1983.00	6.00	28.00	2.00	13.00	17.00	11960.26
S2	1983.00	6.00	28.00	2.00	15.00	28.00	12285.78
S2	1983.00	6.00	28.00	2.00	17.00	39.00	12621.80
S2	1983.00	6.00	28.00	2.00	19.00	50.00	12348.79
S2	1983.00	6.00	28.00	2.00	22.00	1.00	12086.27
S2	1983.00	6.00	28.00	2.00	24.00	12.00	11477.23
S2	1983.00	6.00	28.00	2.00	26.00	23.00	11561.23
S2	1983.00	6.00	28.00	2.00	28.00	34.00	11603.24
S2	1983.00	6.00	28.00	2.00	30.00	46.00	11477.23
S2	1983.00	6.00	28.00	2.00	32.00	57.00	11372.22
S2	1983.00	6.00	28.00	2.00	35.00	8.00	11309.22
S2	1983.00	6.00	28.00	2.00	37.00	19.00	11366.22
S2	1983.00	6.00	28.00	2.00	39.00	30.00	11141.21
S2	1983.00	6.00	28.00	2.00	41.00	41.00	11030.20
S2	1983.00	6.00	28.00	2.00	43.00	52.00	11078.21
S2	1983.00	6.00	28.00	2.00	46.00	3.00	10658.18
S2	1983.00	6.00	28.00	2.00	48.00	14.00	10646.18

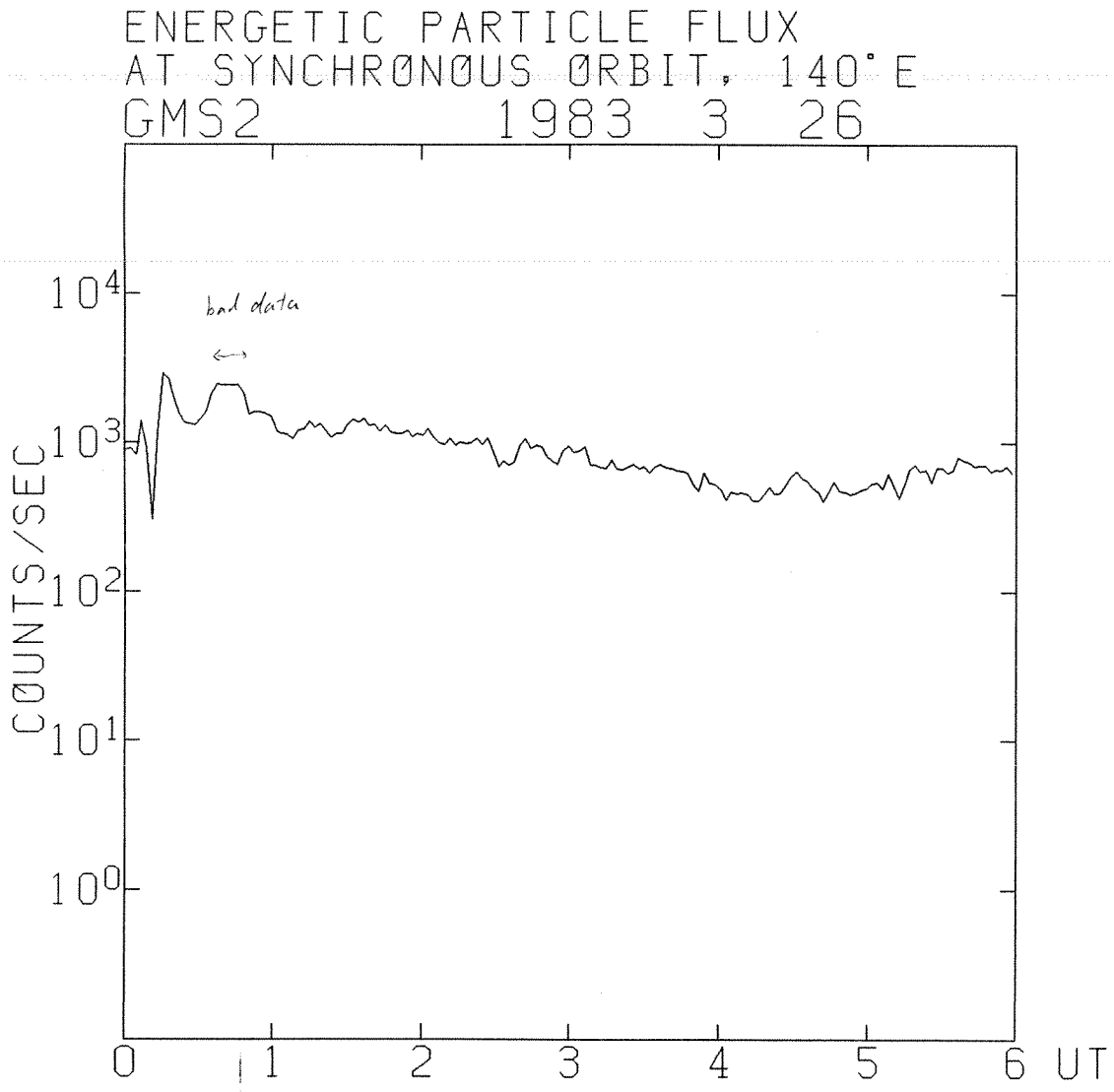

ENERGETIC PARTICLE FLUX
AT SYNCHRØNØUS ØRBIT, 140°E
GMS2 1983 1 28
COUNTS/SEC
10^4
10^3
10^2
10^1
10^0
4
5
6
7
8
9
10
11 UT

ENERGETIC PARTICLE FLUX
AT SYNCHRØNØUS ØRBIT, 140°E
GMS2 1983 1 29

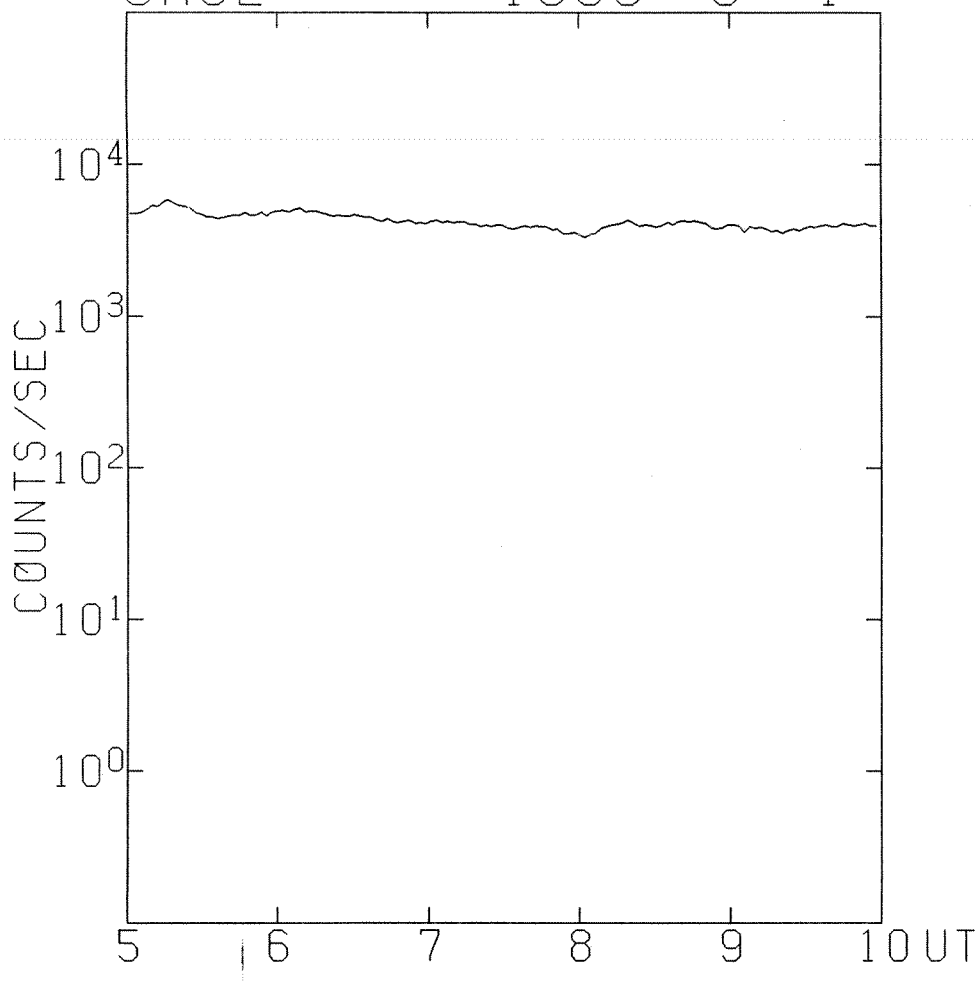


ENERGETIC PARTICLE FLUX
AT SYNCHRØNØUS ØRBIT, 140°E
GMS2 1983 3 25




ENERGETIC PARTICLE FLUX
AT SYNCHRØNØUS ØRBIT, 140° E
GMS2 1983 3 26
bad data
COUNTS/SEC
10^4
10^3
10^2
10^1
10^0
0
1
2
3
4
5
6
UT

ENERGETIC PARTICLE FLUX
AT SYNCHRØNØUS ØRBIT, 140°E
GMS2 1983 6 4



National Aeronautics and Space Administration

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (Please print.)

1. Spacecraft/Ground Station(s)	2. Experiment Name	3. Data Set Name
GMS-2	SEM	6
4. Scientific Contact	**5. Telephone/Telex No.**	**6. SPAN/TELENET Address**
T. Nagai	J24550 (SPACE TKY) c/o Dr. T. Terasawa	
7. Address		
Meteorological Research Institute		
8. City	**9. State**	**10. Zip Code or Country**
Tsukuba	Ibaraki	305 Japan
11. Programmer Contact	**12. Telephone/Telex No.**	**13. SPAN/TELENET Address**
T. Nagai		

SECTION II. TAPE DESCRIPTION

1. External Physical Label

GMS

2. No. of Tapes Submitted

1

3. Tape Density [ ] 800 bpi [ ] 1600 bpi [*] 6250 bpi

4. No. of Files (per tape)

6 (NL)

5. No. of File Marks Between Files

6. After Last File?

7. No. of Tracks [ ] 7 [*] 9

8. Recording Parity

9. Make and Model of Computer Used to Generate Tape

10. Tapes are written in:

[*] binary [ ] ASCII [ ] EBCDIC
[ ] Combination as shown [ ] Other; Specify _____

11. If binary, what floating point representation is used? (e.g., CDC 64 bit, or IBM 3081 32 bit)

IBM

12. If binary, what integer representation is used? (e.g., 32 bit, 2's complement)

32 bit, 2's complement

13. No. of Physical Records (per file)

BLK]92, 247,247,]65,]37,330

14. Are original tapes to be returned? [ ] Yes [*] No

15. Start and Stop Time of Each File (If more space is needed, please attach.)

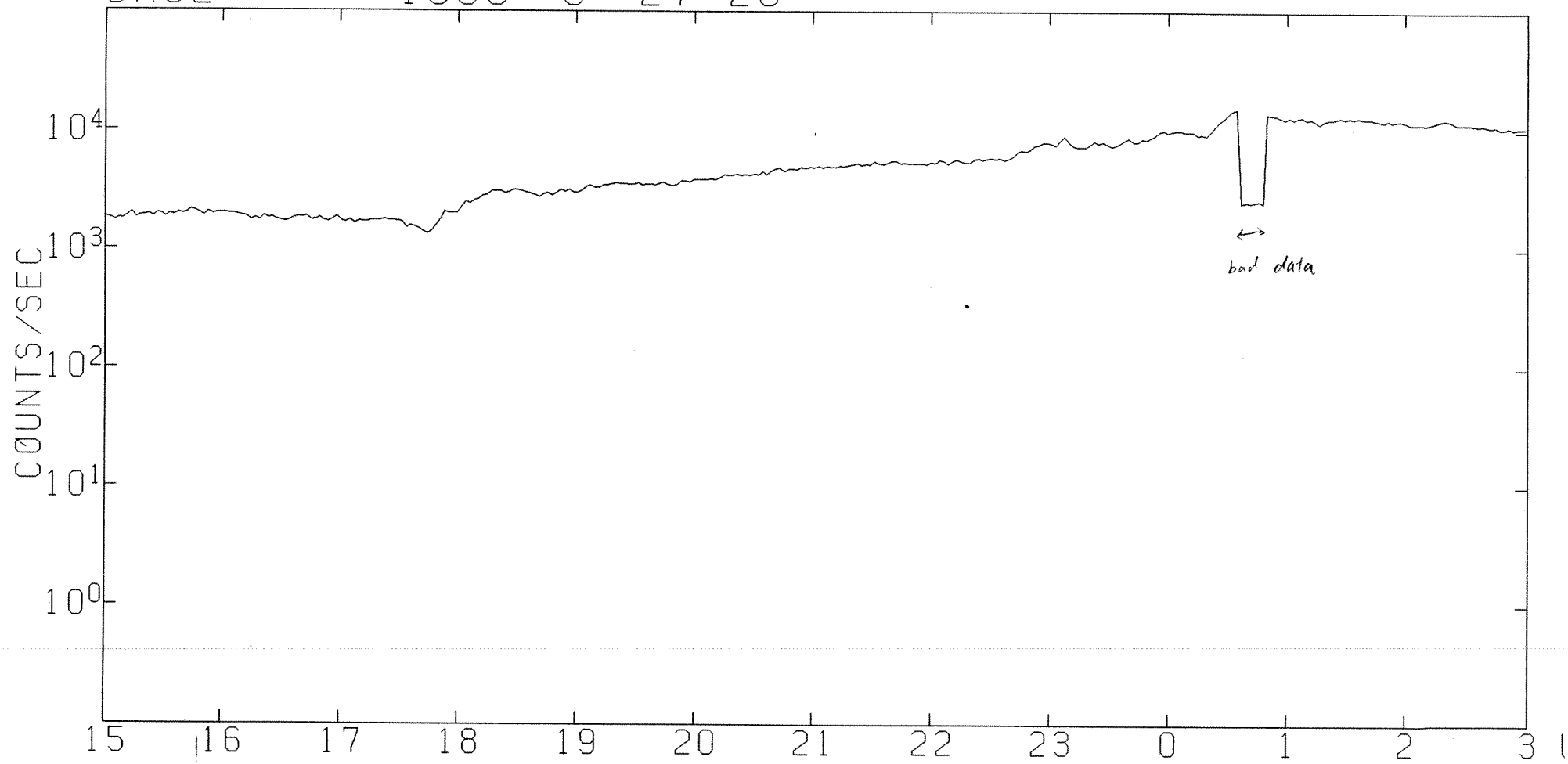
separate form

SECTION III. LOGICAL AND PHYSICAL RECORD FORMAT (Please attach.)

SECTION IV. TO BE FILLED IN BY NSSDC ONLY

	CDB No.
Date Received	Tape No.
Programmer ID	CON Name
Data Base	Date Loaded

ENERGETIC PARTICLE FLUX
AT SYNCHRØNØUS ØRBIT, 140°E
GMS2 1983 6 27-28



DUMP OF TAPE GAILOUT-2

D-72896

```
INPUT TAPE  GAILOUT-ON  HT1
DATA INPUT    H9 NF 6 SR 1 1 1 SR 2 1 1 SR 3 1 1 SR 4 1 1 SR 5 1 1 SR 6 1 1
                                   1983                1                   28
 FILE       1  RECORD        1  LENGTH       64BYTES
 (      0)   C7D4E2F2  40404040  437BF000  00000000  41100000  00000000  421C0000  00000000  41400000  00000000
 (     40)   00000000  00000000  42330000  00000000  44677D31  00000000

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.       INPUT          SIZE        PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
             1     192      192              64          0       0       0       0       0       0

 FILE       2  RECORD        1  LENGTH       64BYTES
 (      0)   C7D4E2F2  40404040  437BF000  00000000  41100000  00000000  421D0000  00000000  41500000  00000000
 (     40)   41100000  00000000  42240000  00000000  43BF4F22  00000000

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.       INPUT          SIZE        PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
             2     247      247              64          0       0       0       0       0       0

 FILE       3  RECORD        1  LENGTH       64BYTES
 (      0)   C7D4E2F2  40404040  437BF000  00000000  41300000  00000000  42190000  00000000  41500000  00000000
 (     40)   41200000  00000000  41200000  00000000  43A75ABD  00000000

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.       INPUT          SIZE        PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
             3     247      247              64          0       0       0       0       0       0

 FILE       4  RECORD        1  LENGTH       64BYTES
 (      0)   C7D4E2F2  40404040  437BF000  00000000  41300000  00000000  421A0000  00000000  00000000  00000000
 (     40)   00000000  00000000  41800000  00000000  43381CEA  00000000

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.       INPUT          SIZE        PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
             4     165      165              64          0       0       0       0       0       0

 FILE       5  RECORD        1  LENGTH       64BYTES
 (      0)   C7D4E2F2  40404040  437BF000  00000000  41600000  00000000  41400000  00000000  41500000  00000000
 (     40)   00000000  00000000  42380000  00000000  44126ACC  00000000

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.       INPUT          SIZE        PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
             5     137      137              64          0       0       0       0       0       0

 FILE       6  RECORD        1  LENGTH       64BYTES
 (      0)   C7D4E2F2  40404040  437BF000  00000000  41600000  00000000  421B0000  00000000  41F00000  00000000
 (     40)   00000000  00000000  421C0000  00000000  4372D9E1  00000000

          FILE   INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.       INPUT          SIZE        PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
             6     330      330              64          0       0       0       0       0       0

 EOJ        DUMP STOPPED AFTER FILE   6          # OF PERMANENT READ ERRORS  0

START TIME 04/25/86  11:38:29        STOP TIME 04/25/86  11:39:00


$$
$ASS IN HT1
```

REQ. AGENT	RAND NO.	ACQ. AGENT
GLS	V0324	HKH

DE-1

6 SECOND MAGNETOMETER DATA

81-070A-01A SPMS-00613

DE-2

.5 SECOND MAGNETOMETER DATA

~~81-070A-02A~~ 81-070B-01A

SPMS-00396

THESE DATA SETS CONSIST OF FOUR MAGNETIC DATA TAPES. THESE TAPES ARE 9 TRACK, 6250 BPI, WRITTEN IN ASCII AND ARE MULTIFILED. THESE TAPES WERE CREATED ON A 11/780 COMPUTER. THE D AND C NUMBER AND THE TIME INTERVALS ARE AS FOLLOWS:

D#	C#	TIME INTERVAL	
D-74069	C-26142	01/28/83 - 01/28/83	(DE-1)
D-74070	C-26143	01/29/83 - 06/28/83	(DE-1)
D-74072	C-26144	01/28/83 - 01/29/83 SGM COORDINATES	(DE-2)
D-74073	C-26145	01/28/83 - 01/29/83 SPACECRAFT COORDINATES	(DE-2)

COORDINATED DATA BASE 8 (CDB-8) QUESTIONNAIRE

(PLEASE RETURN BY MARCH 10, 1986)

NAME: Kiyoshi Maezawa TELEPHONE: 286-5839

ADDRESS: Code 696
NASA / GSFC
Greenbelt, MD 20771

TELEX (Carrier, Number, Answer Back): _____

TELENET ADDRESS: N/A

SPAN ADDRESS (Node Name::Account Name): DE696::U62MS
and LEPVAX::U6BGL

TELEMAIL: N/A

1. I wish to participate: Yes ✓ No ____

2. If no, do you wish to remain on the distribution list? Yes ____ No ____

3. The area of interest with which I would logically affiliate is (denote first and second choices):

___ 1. Solar Wind	___ 4. Plasma	✓ 7. Model/Theory
✓ 2. Magnetic Field	___ 5. Waves	___ 8. Other _____
___ 3. Electric Field	___ 6. Particles	

4. It is highly desirable for NSSDC to receive data by March 24. Please note that NSSDC will assist in averaging, coordinate transformations, etc; the important step is to send the data with documentation now. I can send my data to NSSDC by 9/12/86 (date). The data will be submitted on tape ✓, or electronically using the _____ network.

DATE: 9/12/86

? NSSDC ID: 81-070B-01A

P.I.: Sugiura

CDAW DATA SET ENTRY

DATE RECEIVED: 9/11/86

DATE SENT BY: Kiyoshi Maezawa

PARTICIPANT:

MATERIAL RECEIVED: Questionnaire, tape file info, Data format Doc. Sample plots, 3-tapes
CDAW 8 Data Set B1 / CDAW Data Set B2

SATELLITE/NSDF NAME:

? CDAW DATA SET MNEMONIC: D201

CDAW DATA SET NAME: Magnetometer Data 0.5 Sec

AIM FILE DATA SET NAME: Magnetometer Data - 0.5 Sec, CDAW-8

CDAW NEW DATA SET ADDITIONS REPLACEMENTS

? AIM FILE NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS:

TIME COVERAGE: See attached

TAPES TO BE RETURNED TO: Kiyoshi Maezawa
CODE 696
NASA/GSFC

RECEIVED BY: Leah Hatcher

DATE: 9/12/86

? NSSDC ID: 81-070A-01A

P.I.: Sugiura

CDAW DATA SET ENTRY

DATE RECEIVED: 9/11/86

DATE SENT BY: Kiyoshi Maezawa

PARTICIPANT:

MATERIAL RECEIVED: Questionnaire, tape file info, Data Format Doc. Sample cuts, 4 - tapes
CDAW 8 Data Set A

SATELLITE/NSDF NAME:

? CDAW DATA SET MNEMONIC: D101

CDAW DATA SET NAME: Magnetometer Data 6 Sec

AIM FILE DATA SET NAME: Magnetometer Data - 6 Sec - CDAW-8

CDAW NEW DATA SET ADDITIONS REPLACEMENTS

? AIM FILE NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS: Kiyoshi MAEZAWA
CODE 696
NASA / GSFC

TIME COVERAGE: See attached

TAPES TO BE RETURNED TO: * This tape contains only partial DE-1 Data - Other tapes to follow!

RECEIVED BY: Leah Peterson

5. The CDAW 8 Planning Committee has selected the following intervals for study. Please indicate, next to each time interval, the time periods for which you will supply data.

Event	Time Interval	I will supply data for the time interval:	
A	28 Jan. 1983 0400-1100 UT	DE-A 0353 - 1007	DE-B 0348-0411 0521-0636
B	25 Mar. 1983 0500-1400 UT	DE-A 0410-930 1000-1400	DE-B None
C	26 Mar. 1983 0000-0600 UT	DE-A 0047-0529	DE-B None
D	29 Jan. 1983 0500-1400 UT	DE-A 0615-1314	DE-B 0550-0615 0826-0942 1328-1353
E	4 June 1983 0500-1000 UT	DE-A 0554-0844	DE-B None
F	27-28 June 1983 1500-0300 UT	DE-A 1425-1839 2155-0300	DE-B None

6. I will follow the attached CDB Guidelines in submitting the following data sets:

IDENTIFICATION Spacecraft/ Ground Station	EXPERIMENT IDENTIFICATION	PRINCIPAL INVESTIGATOR	NO. OF PARAMEMETERS FOR CDB	TOTAL DATA POINTS FOR CDB	Used Previously in CDAW No.___ (is format identical?)
DE-A	MAGA	M. Sugiura	3 and 12		N/A
DE-B	MAGB	M. Sugiura	3 and 12		N/A
			(Two kinds of datasets)		

7. Data Averaging: In consideration of the size of the resulting database and to ensure that all data can be loaded, it is suggested that the maximum (highest) time resolution be 1-minute data, and higher resolution data be loaded where appropriate. NSSDC would prefer to receive your data with the time resolution that you normally have or use and will perform averages to your specifications. (See enclosed Guidelines page 1, with particular references to items 3, 4, and 6.)

_____ I will want NSSDC to perform time averaging and will enclose my specifications with the data.

✓ I want my data set(s) to be loaded without any averaging; if so, my basic time resolution is _____.

0.5 sec for DE-B
6 sec for DE-A

8. Data Manipulation: If you wish to have special data manipulation functions or subroutines added to the system that are extensive and may be impractical to construct in real time, these should be received as soon as possible (preferably in FORTRAN).

I will _____ will not ✓ be submitting data manipulation code for incorporation into the system. These will be sent by _____ (date).

9. I suggest that a special effort be made to obtain the following data sets:

_____

_____

10. To assist NSSDC in planning support and future development for CDAW-8 please complete this survey:

Remote access via: SPAN ✓ TELENET ____ Modem ____ Other DECSERVER ✓

Type(s) of terminal available: (e.g., TEKTRONIX 4014, VT100 with graphics board, VT240)

TEK 4014, 4114, VT100, VT220

Type of PC/Software Communications Package you might use for access to CDAW system: (e.g., MacIntosh/TEKALIKE,...)

EM IBM PC / VT100

Graphics software available at local node: (e.g., TEMPLATE, NCAR,...)

D13000, VERSAPLOT (DEC96)
VERSAPLOT, PLOT10, TEMPLATE (LEPUAX)

Other commercial software packages you might use with CDAW data at your local node: (e.g., IDL,...)

N/A

11. Please forward copies of the Workshop Announcement to any individual who you feel may be interested and ask them to submit this Questionnaire to NSSDC by March 10, 1986.

PLEASE RETURN THIS QUESTIONNAIRE TO:

Ms. Leah Gatewood
CDAW 8
Code 633
NASA Goddard Space Flight Center
Greenbelt, Maryland 20771
U.S.A.

Telephone: (301) 344-6818 FTS: 344-6818
SPAN Address: NSSDC::GATEWOOD TELEX: 89675 NSCOM GBLT

Data set A (Tape JOB ID 4588)

83028	14013648 - 17557662
	17573662 - 24773688
	24781692 - 29237709
	34741824 - 36453825
83085	02792915 - 07272936
	07296935 - 12752961
	12776948 - 18096969
	18096968 - 19968976

Data set B1 & B2 (Tape JOB ID 4585 & 4592)

83028	13841878 - 15065899
	19449750 - 20849776
	20873775 - 23753812
83029	30601952 - 32017974
	32033974 - 34914017
	48690019 - 50002032

* Data do not necessarily exist to the end of each interval.

DE-1 and -2 magnetic field data sets for CDAW-8.

There are altogether three kinds of data sets, i.e., two for DE-2 and one for DE-1 satellite, as described below.

(1) Data set A:	DE-1, SGM (Solar GeoMgnetic) coordinates	(Time resolution 6 sec)
(2) Data set B1:	DE-2, SGM coordinates	(Time resolution 0.5 sec)
(3) Data set B2:	DE-2, Spacecraft coordinates	(Time resolution 0.5 sec)

All datasets are written in the following format.

I8,I8,F8.0,125(8x)	DOY, time (in msec), time resolution (in msec)	first logical block
128F8.0	x component of the magnetic field	
128F8.0	y component of the magnetic field	
128F8.0	z component of the magnetic field	
I8,I8,F8.0	next logical block	
.....		
.....		
.....		
.		
.		
.		

Four records of 128 words each constitute a basic logical block to read. The first record of a block contains the time information for the first data point in the block. The following three blocks contain the data for 128 successive data points for the x, y, and z components, respectively. Therefore, one logical block contains 128*6=768 seconds worth of data for the data set A, and 128*0.5 =64 seconds for the datasets B1 and B2. Time increment between the datapoints (i.e., time resolution) has been stored in the first record of each block, thouth it is constant throughout the dataset. The tape is written in ASCII codes, and has no label.

List of variables for DE-1 and -2 datasets

(1) Spacecraft coordinate file

BXSPC: X component of the magnetic field (in nanotesla)
BYSPC: Y component of the magnetic field (in nanotesla)
BZSPC: Z component of the magnetic field (in nanotesla)

(2) SGM coordinate file

BXSGM: X component of the magnetic field (in nanotesla)
BYSGM: Y component of the magnetic field (in nanotesla)
BZSGM: Z component of the magnetic field (in nanotesla)

Comments

(1) Time is stored in a separate record once for each 128 data-point block.
(2) There is no information on the spacecraft position in this dataset.

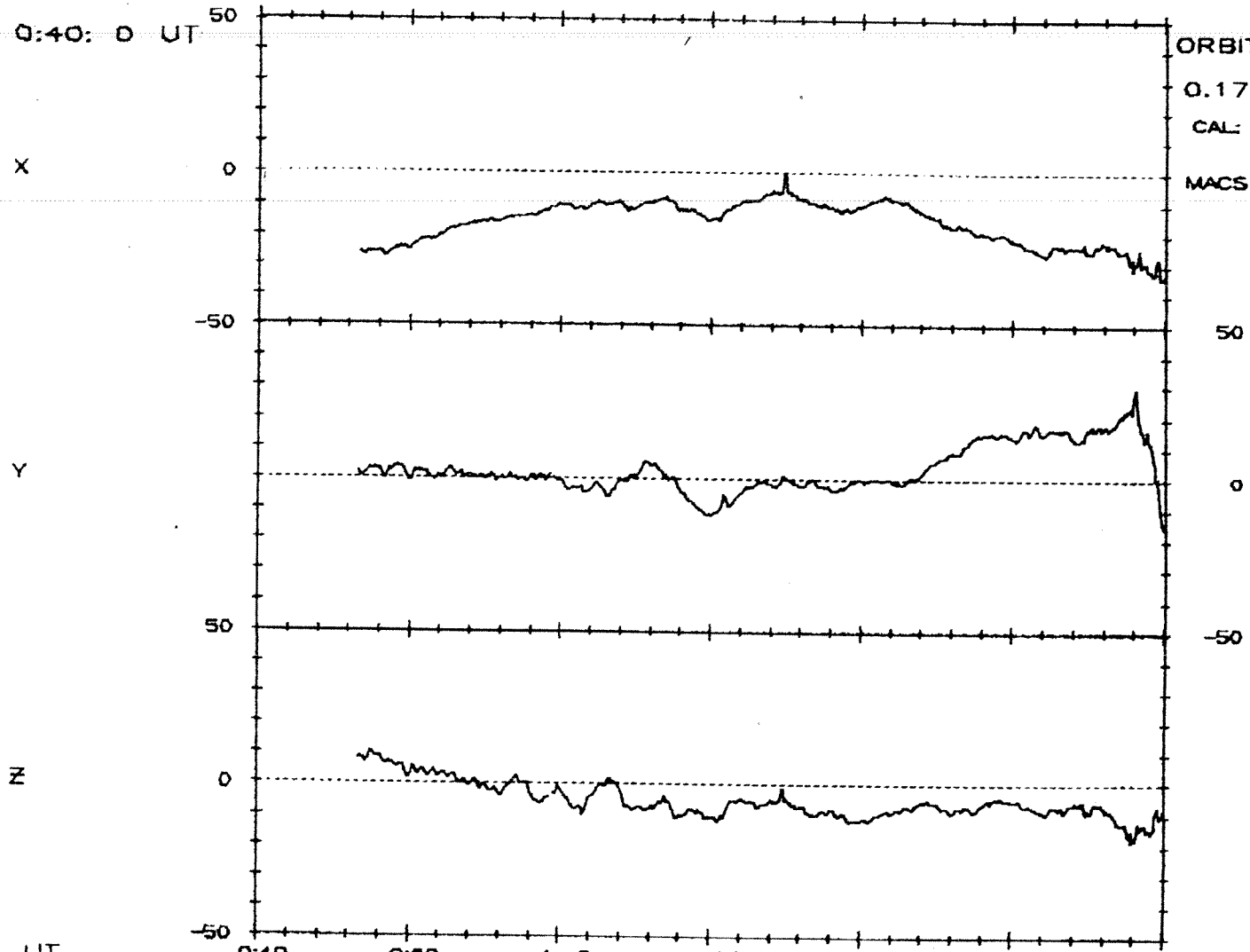
MAGA DELTA S/C DAY 85 26 MAR 1983 P11 SEP 1986

0:40: 0 UT

ORBIT 2102

0.17 /SEC

CAL: 83121



UT	0:40	0:50	1: 0	1:10	1:20	1:30	1:40
LT (HR)	10.4	10.4	10.4	10.4	10.4	10.5	10.5
ALT (KM)	8541	10499	12290	13916	15387	16711	17896
LAT (DEG)	-15.9	-25.0	-32.4	-38.4	-43.6	-48.2	-52.3
LON (DEG)	148	146	143	140	138	135	133
MLT (HR)	10.6	10.7	10.8	10.8	10.9	10.9	11.0
ILAT (DEG)	53.3	59.4	64.2	68.2	71.4	74.2	76.6
MLAT (DEG)	-24.5	-33.8	-41.4	-47.7	-53.1	-57.9	-62.2

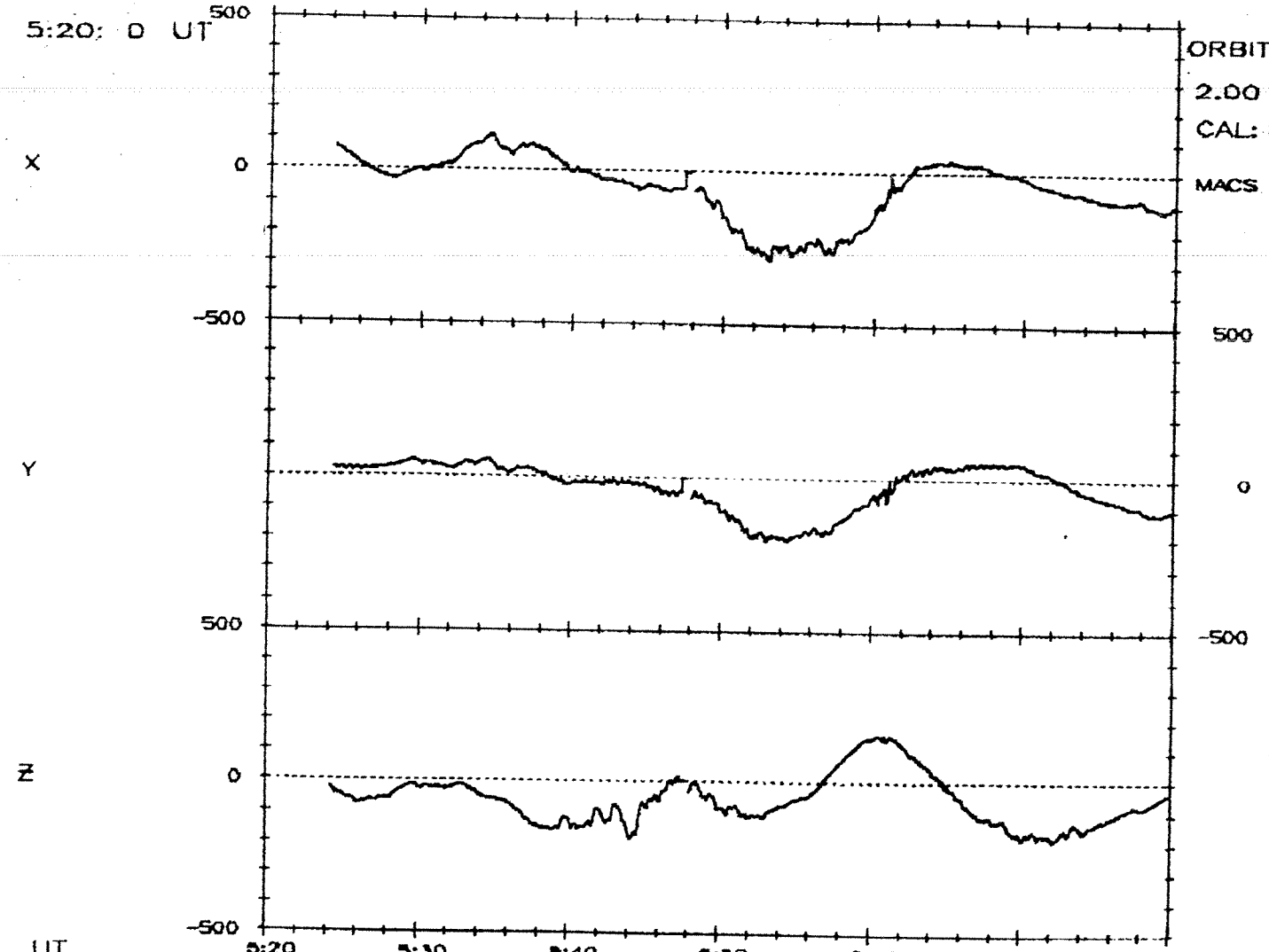
MAGB DELTA S/C DAY 28 28 JAN 1983 00V0 P11 SEP 1986

5:20: 0 UT

ORBIT 8232

2.00 /SEC

CAL: 85365



UT	5:20	5:30	5:40	5:50	6: 0	6:10	6:20
LT (HR)	1.9	1.9	1.9	1.9	13.7	13.9	13.9
ALT (KM)	244	254	286	324	353	362	344
LAT (DEG)	-67.9	-27.5	12.8	52.5	88.1	49.0	9.9
LON (DEG)	-48	-51	-53	-56	119	118	116
MLT (HR)	1.8	1.8	2.0	2.3	13.4	13.9	14.0
ILAT (DEG)	54.3	24.5	27.8	62.2	80.6	43.1	999.9
MLAT (DEG)	-57.3	-16.9	23.4	63.2	77.0	38.0	-1.3

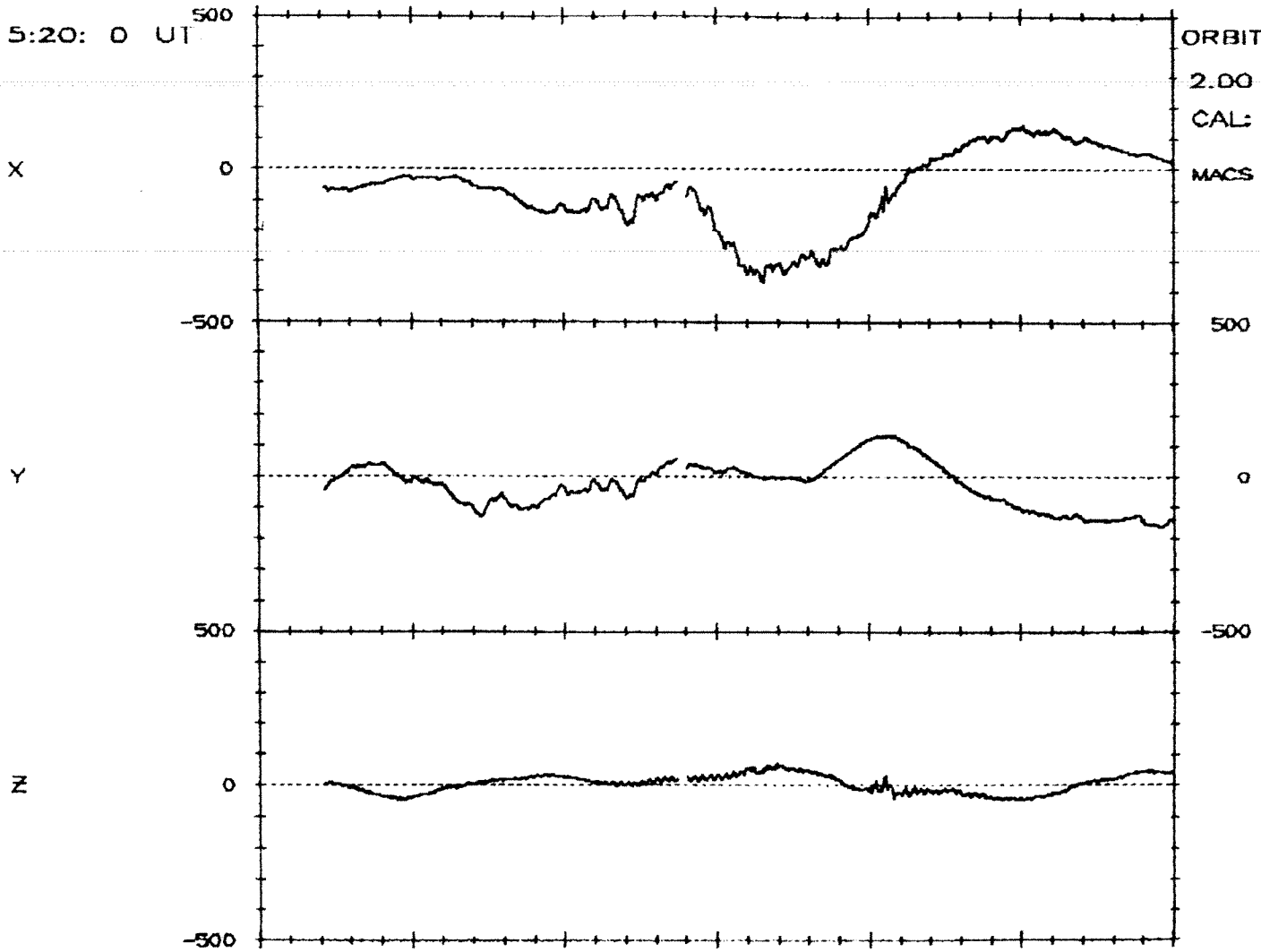
MAGB DELTA S/C DAY 28 28 JAN 1983 00V0 P11 SEP 1986

5:20: 0 UT

ORBIT 8232

2.00 /SEC

CAL: 85365



UT	5:20	5:30	5:40	5:50	6: 0	6:10	6:20
LT (HR)	1.9	1.9	1.9	1.9	13.7	13.9	13.9
ALT (KM)	244	254	286	324	353	362	344
LAT (DEG)	−67.9	−27.5	12.8	52.5	88.1	49.0	9.9
LON (DEG)	−48	−51	−53	−56	119	118	116
MLT (HR)	1.5	1.8	2.0	2.3	13.4	13.9	14.0
ILAT (DEG)	54.3	24.5	27.8	62.2	80.6	43.1	999.9
MLAT (DEG)	−57.3	−16.9	23.4	63.2	77.0	38.0	−1.3

D74069

```
$NOP
$NOP ********************LIST OF GAILOUT1**********************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   1024
   8302814024604  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 2

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   1024
   8302817584618  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 3

 TAPE NO.   1              FILE NO.   3
 RECORD   1                LENGTH   1024
   8302824792648  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 4

 TAPE NO.   1              FILE NO.   4
```

```
***** JOB DONE.
$WEO LPS
```

$$

D74070

```
$NOP
$NOP ******************LIST OF GAILOUT3*********************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   1024
   8302924209215  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 2

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   1024
   8302926257179  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 3

 TAPE NO.   1              FILE NO.   3
 RECORD   1                LENGTH   1024
   8302933385215  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 4

 TAPE NO.   1              FILE NO.   4
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 5

 TAPE NO.   1              FILE NO.   5
 RECORD   1                LENGTH   1024
   8302944113340  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 6

 TAPE NO.   1              FILE NO.   6
 RECORD   1                LENGTH   1024
   8308415035636  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 7

 TAPE NO.   1              FILE NO.   7
 RECORD   1                LENGTH   1024
   8308436035695  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 8

 TAPE NO.   1              FILE NO.   8
 RECORD   1                LENGTH   1024
   830844083570B  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 9

 TAPE NO.   1              FILE NO.   9
 RECORD   1                LENGTH   1024
   830844599570C  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 10

 TAPE NO.   1              FILE NO.   10
 RECORD   1                LENGTH   1024
   830844907570D  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 11
```

```
  83085 2795871  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 12

 TAPE NO.   1              FILE NO.   12
 RECORD   1                LENGTH   1024
   83085 7299891  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 13

 TAPE NO.   1              FILE NO.   13
 RECORD   1                LENGTH   1024
   8308512779904  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 14

 TAPE NO.   1              FILE NO.   14
 RECORD   1                LENGTH   1024
   8308518099924  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 15

 TAPE NO.   1              FILE NO.   15
 RECORD   1                LENGTH   1024
   8315521303108  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 16

 TAPE NO.   1              FILE NO.   16
 RECORD   1                LENGTH   1024
   8315524207156  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 17

 TAPE NO.   1              FILE NO.   17
 RECORD   1                LENGTH   1024
   8317851964845  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 18
```

```
 TAPE NO.   1                FILE NO.   18
 RECORD   1                  LENGTH   1024
   8317855748866  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 19

 TAPE NO.   1                FILE NO.   19
 RECORD   1                  LENGTH   1024
   8317856020867  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 20

 TAPE NO.   1                FILE NO.   20
 RECORD   1                  LENGTH   1024
   8317859980930  6000.0


***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 21

 TAPE NO.   1                FILE NO.   21
 RECORD   1                  LENGTH   1024
   8317878964910  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 22

 TAPE NO.   1              FILE NO.   22
 RECORD   1                LENGTH   1024
   8317881076940  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 23

 TAPE NO.   1              FILE NO.   23
 RECORD   1                LENGTH   1024
   8317886396939  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 1 1 24

 TAPE NO.   1              FILE NO.   24
 RECORD   1                LENGTH   1024
   83179 1908948  6000.0
```

```
***** JOB DONE.
$EXE TPLIST BS
```

```
TAPE NO.   1              FILE NO.   25
RECORD   1                LENGTH   1024
   83179 7628948  6000.0


***** JOB DONE.
$WEO LPS


$$
```

```
$NOP
$NOP ************ GAILOUT4 **********
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 6 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   1024
   8302813850089   500.0


 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   1024
   8302819457969   500.0


 TAPE NO.   1              FILE NO.   3
 RECORD   1                LENGTH   1024
   8302820881986   500.0


 TAPE NO.   1              FILE NO.   4
 RECORD   1                LENGTH   1024
   8302930610163   500.0


 TAPE NO.   1              FILE NO.   5
 RECORD   1                LENGTH   1024
```

D 74072

```
TAPE NO.   1              FILE NO.   6
RECORD   1                LENGTH   1024
  8302948698231   500.0


***** JOB DONE.
$WEO LPS


$$
$ASS IN HT1
```

```
$NOP
$NOP *********** GAILOUT5 ***********
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 6 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   1024
   8302813850089   500.0


 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   1024
   8302819457969   500.0


 TAPE NO.   1              FILE NO.   3
 RECORD   1                LENGTH   1024
   8302820881986   500.0


 TAPE NO.   1              FILE NO.   4
 RECORD   1                LENGTH   1024
   8302930610163   500.0


 TAPE NO.   1              FILE NO.   5
 RECORD   1                LENGTH   1024
```

D 74073

```
TAPE NO.   1              FILE NO.   6
RECORD   1                LENGTH   1024
  8302948698231   500.0


***** JOB DONE.
$WEO LPS


$$
$ASS IN HT1
```

REQ. AGENT	ACQ AGENT
BMW	NJS

DE - 1

COLD PLASMA ION COUNT RATES

81-070A-04A SPMS-00397

This data set catalog consists of three tapes. These tapes are 9 track, 1600 BPI, Binary with 1 file of data. These tapes were created on an IMB 11/780 computer, and were submitted in support of a CDAW workshop.

D#	C#	TIME SPAN
D-73479	C-27536	01/28/83 - 01/29/83
D-73480	C-27537	03/25/83 - 03/26/83
D-73481	C-27538	06/04/83 - 06/28/83

DATE: 4/21/86

NSSDC ID: 81-070A-04A

P.I.: C.R. CHAPPELL

CDAW DATA SET ENTRY

DATE RECEIVED:

DATA SENT BY: J.H. WAITE /MSFC

PARTICIPANT:

MATERIAL RECEIVED: Questionnaire, CDB Tape Doc form
3-tapes 9trk, 1600 BPI (MAFI #1, #2, #3)
2 printout lists.

SATELLITE/NSDF NAME: DE-1

CDAW DATA SET MNEMONIC: DE104

CDAW DATA SET NAME: DE-A RIMS

AIM FILE DATA SET NAME: ~~DE-A, RETARD. ION MASS SPEC. (RIMS)~~
COLD PLASMA ION COUNT RATES, TAPE

CDAW NEW DATA SET ADDITIONS REPLACEMENTS

AIM FILE NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS: 2 files on tapes #1 + #2 3 files on tape #3
Print outs will be in file if needed!!

TIME COVERAGE: See CDB form

TAPES TO BE RETURNED TO:

RECEIVED BY: Sarah Stalnaker

National Aeronautics and Space Administration

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (Please print.)

1. Spacecraft/Ground Station(s): DE-1	2. Experiment Name: RIMS	3. Data Set Name: MAFI tapes
4. Scientific Contact: J. H. Waite, Jr.	5. Telephone/Telex No.: FTS 872-3918	6. SPAN/TELENET Address: SSL::WAITE
7. Address: NASA/MSFC, ES53		
8. City: Huntsville	9. State: AL	10. Zip Code or Country: 35620
11. Programmer Contact: Barry Lee	12. Telephone/Telex No.: 453-2405	13. SPAN/TELENET Address: SSL::LEE

SECTION II. TAPE DESCRIPTION

1. External Physical Label: MAFI #1, MAFI #2, MAFI #3

2. No. of Tapes Submitted: 3

3. Tape Density: [ ] 800 bpi [X] 1600 bpi [ ] 6250 bpi

4. No. of Files (per tape): 2 on Tapes #1 and #2; 3 on Tape #3

5. No. of File Marks Between Files: 1

6. After Last File?: 2

7. No. of Tracks: [ ] 7 [X] 9

8. Recording Parity: odd

9. Make and Model of Computer Used to Generate Tape: VAX 11780

10. Tapes are written in: [ ] binary [X] ASCII [ ] EBCDIC [ ] Combination as shown [ ] Other; Specify _____

11. If binary, what floating point representation is used? (e.g., CDC 64 bit, or IBM 3081 32 bit)

12. If binary, what integer representation is used? (e.g., 32 bit, 2's complement)

13. No. of Physical Records (per file)
TAPE #1 - 5778 TAPE #2 - 4740 TAPE #3 - 4877

14. Are original tapes to be returned? [ ] Yes [X] No

15. Start and Stop Time of Each File (If more space is needed, please attach.)

D3028/0353-1007	D3084/1001-1600	D3155/0554-0842
		D3178/1426-1837
D3029/0615-1315	D3085/0046-0530	D3178/2359-0403

SECTION III. LOGICAL AND PHYSICAL RECORD FORMAT (Please attach.)

SECTION IV. TO BE FILLED IN BY NSSDC ONLY

	CDB No.
Date Received	Tape No.
Programmer ID	CON Name
Data Base	Date Loaded

COORDINATED DATA BASE 8 (CDB-8) QUESTIONNAIRE

(PLEASE RETURN BY MARCH 10, 1986)

NAME: Jack Hunter Waite, Jr. TELEPHONE: (205) 453-3918

ADDRESS: ES53
NASA/MSFC
Marshall Space Flight Center, AL 35812

TELEX (Carrier, Number, Answer Back): _____

TELENET ADDRESS: _____

SPAN ADDRESS (Node Name::Account Name): SSL:WAITE, ION::WAITE

TELEMAIL: _____

1. I wish to participate: Yes X No ____

2. If no, do you wish to remain on the distribution list? Yes ____ No ____

3. The area of interest with which I would logically affiliate is (denote first and second choices):

___ 1. Solar Wind	2 4. Plasma	___ 7. Model/Theory
___ 2. Magnetic Field	___ 5. Waves	___ 8. Other _____
___ 3. Electric Field	1 6. Particles	

4. It is highly desirable for NSSDC to receive data by March 24. Please note that NSSDC will assist in averaging, coordinate transformations, etc; the important step is to send the data with documentation now. I can send my data to NSSDC by April 15 (date). The data will be submitted on tape X, or electronically using the _____ network.

5. The CDAW 8 Planning Committee has selected the following intervals for study. Please indicate, next to each time interval, the time periods for which you will supply data.

Event	Time Interval	I will supply data for the time interval:
A	28 Jan. 1983 0400-1100 UT	0400-1007
B	25 Mar. 1983 0500-1400 UT	0500-1400
C	26 Mar. 1983 0000-0600 UT	0000-0530
D	29 Jan. 1983 0500-1400 UT	0600-1315
E	4 June 1983 0500-1000 UT	0554-0842
F	27-28 June 1983 1500-0300 UT	1500-2400

6. I will follow the attached CDB Guidelines in submitting the following data sets:

IDENTIFICATION Spacecraft/ Ground Station	EXPERIMENT IDENTIFICATION	PRINCIPAL INVESTIGATOR	NO. OF PARAM-EMETERS FOR CDB	TOTAL DATA POINTS FOR CDB	Used Previously in CDAW No.___ (is format identical?)
DE-1	RIMS	Dr. C.R. Chappell			N/A

7. Data Averaging: In consideration of the size of the resulting database and to ensure that all data can be loaded, it is suggested that the maximum (highest) time resolution be 1-minute data, and higher resolution data be loaded where appropriate. NSSDC would prefer to receive your data with the time resolution that you normally have or use and will perform averages to your specifications. (See enclosed Guidelines page 1, with particular references to items 3, 4, and 6.)

X I will want NSSDC to perform time averaging and will enclose my specifications with the data.

____ I want my data set(s) to be loaded without any averaging; if so, my basic time resolution is _____.

8. Data Manipulation: If you wish to have special data manipulation functions or subroutines added to the system that are extensive and may be impractical to construct in real time, these should be received as soon as possible (preferably in FORTRAN).

I will X will not ____ be submitting data manipulation code for incorporation into the system. These will be sent by April 15 (date).

9. I suggest that a special effort be made to obtain the following data sets:

_____

_____

10. To assist NSSDC in planning support and future development for CDAW-8 please complete this survey:

Remote access via: SPAN X TELENET X Modem ____ Other ____

Type(s) of terminal available: (e.g., TEKTRONIX 4014, VT100 with graphics board, VT240)

AEDS 767, Tektronix 4014, Tektronix 4027, VT 241

Type of PC/Software Communications Package you might use for access to CDAW system: (e.g., MacIntosh/TEKALIKE,...)

Decnet

Graphics software available at local node: (e.g., TEMPLATE, NCAR,...)

NCAR, MSSL

Other commercial software packages you might use with CDAW data at your local node: (e.g., IDL,...)

IDL, ANNA

11. Please forward copies of the Workshop Announcement to any individual who you feel may be interested and ask them to submit this Questionnaire to NSSDC by March 10, 1986.

PLEASE RETURN THIS QUESTIONNAIRE TO:

Ms. Leah Gatewood
CDAW 8
Code 633
NASA Goddard Space Flight Center
Greenbelt, Maryland 20771
U.S.A.

Telephone: (301) 344-6818 FTS: 344-6818
SPAN Address: NSSDC::GATEWOOD TELEX: 89675 NSCOM GBLT

JS 0043, 41, 74 D-73479→81 C-27536→38

DUMP OF TAPE GIN1

7BF

BF07

DE-1 Cold Plasma Ion Count Rates 1/28/83 → 1/29/83

Exp. # 81-070A-04A 3/25/83 → 3/26/83

6/4/83 → 6/28/83

INPUT TAPE GIN1 CN FT1

DATA INPUT FS NF=1 FL=1=1=1

FILE 1 RECORD 1 LENGTH 5624BYTES

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(80)	6B004600	32002300	14000500	0000E803	60022001	85005000	37002800	19000400	0000FF03	0C037201
(120)	B0005A00	3C002D00	1E000F00	00000003	3A033A03	62037903	84038703	89038A03	8B038D03	8D038403
(160)	D803FE03	03040804	0A040C04	0D040E04	0F04D406	D406F906	0B071307	15071707	18071407	18070000
(200)	52FDE8FF	3E00B4FE	A5FD4000	5B01ACFD	4800AD02	FCFF4E00	FE014C02	4C00B6FE	5B024400	52FD1700
(240)	3E008EFE	BBFD4000	00008000	D6000F00	D000B400	B300C900	A900B400	DD00C700	DD00C800	DC000000
(280)	00000000	D6000F00	D100B400	B400C900	A900B400	DC00C700	DD00C800	DC000000	00000000	D6000F00
(320)	D100B300	B300C900	A900B400	DD00C700	DE00C800	DC000000	00001000	D6000F00	D300B400	B400C900
(360)	A900B400	DC00C700	DD00C800	DC000000	00000000	D6000F00	D400B400	B300C900	A900B400	DC00C700
(400)	DD00C800	DD000000	00000000	D6000F00	D000B300	B300C900	A900B400	DC00C700	DD00C800	DC000000
(440)	00000000	D6000F00	D400B300	B400C900	A900B400	DD00C700	DE00C800	DD000000	00000000	D6000F00
(480)	D100B400	B300C900	A900B400	DD00C700	DD00C800	DC000000	01000100	00001100	01000000	00000100
(520)	01000100	00000000	00000300	00000300	01000000	00001000	02000200	07000600	0B001100	15002100
(560)	31003800	39003A00	33002100	20001100	07000600	05000300	05000300	05000100	07000400	00000200
(600)	02000200	03000000	00000100	00000200	01000300	03000000	00000100	01000000	01000100	00000100
(640)	01000100	00000000	02000100	00000000	02000000	01000100	00000000	01000000	00000100	00000000
(680)	01000000	01000000	00000100	00000000	00000200	00000000	00000000	00000200	01000100	00000000
(720)	00000000	00000000	00000100	00000100	01000200	00000000	00000000	01000000	00000100	00000000
(760)	00000000	00000100	00000000	00000000	01000100	00000000	01000000	00000200	00002000	03000000
(800)	00000100	00000000	01000000	00000100	00000000	00000100	01000000	00000000	02000000	00000100
(840)	00000000	00000000	00000000	02000000	01000000	01000100	00000100	00000200	00000000	00000000
(880)	01000000	01000000	01000000	00000000	00000000	01000000	00000100	00000100	00000000	00000100
(920)	00000000	01000000	00000000	00000000	00000100	01000000	00000000	00000000	00000000	00000000
(960)	00000000	01000200	01000100	00000100	00000100	01000000	00000100	00000000	00000000	00000000
(1000)	00000000	00000000	01000000	00000000	01000000	00000000	00000000	02000000	02000000	00000000
(1040)	00000000	00000000	00000100	00000100	01000000	01000100	00000000	00000000	00000000	00000000
(1080)	01000000	00000100	00000000	03000000	00000000	00000000	01000000	00000100	00000100	01000200
(1120)	01000100	00000000	01000100	00000000	00000000	01000000	00000000	00000000	00000000	00000000
(1160)	01000100	00000000	00000000	00000000	02000100	01000000	01000100	02000100	03000000	02000400
(1200)	01000200	03000400	01000100	00000100	00000200	01000100	02000500	00000200	01000200	02000100
(1240)	01000400	04000100	00000100	02000300	02000000	00000000	00000000	01000200	00000200	01000000
(1280)	00000100	00000000	01000000	01000100	00000100	00000100	00000100	03000100	00000100	05000200
(1320)	02000300	04000800	08001000	10003700	5F008C00	BA000800	D4009500	6F006000	4A004300	15002000
(1360)	15000A00	0B000700	06000400	05000300	04000300	00000300	01000100	00000100	04000000	02000200
(1400)	00000100	03000200	00000100	00000200	00000100	00000000	01000000	01000000	02000200	02000200
(1440)	01000000	00000100	00000100	00000000	02000000	00000000	00000100	00000100	00000100	00000000
(1480)	00000000	02000200	00000000	00000000	01000000	10000000	01000200	00000100	00000000	02000100
(1520)	00000200	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000100	00000000
(1560)	00000000	00000100	00000000	02000200	01000000	01000200	00000000	00000000	00000000	02000100
(1600)	01000100	02000000	00000000	00000200	00000300	01000000	01000000	00000000	00000000	00000000
(1640)	00000000	00000000	00000000	00000000	01000100	00000000	00000000	00000000	00000000	00000000
(1680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1720)	00000000	00000000	00000000	00000000	00000000	00000100	00000000	00000000	00000000	00000000
(1760)	00000000	00000000	00000000	00000000	00000100	00000000	00000000	00000000	00000000	00000000
(1800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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(1880)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	01000000	00000000	01000100
(1920)	00000000	00000000	00000000	00000000	02000000	00000000	00000000	00000000	00000000	00000000
(1960)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2040)	00000000	00000000	00000000	00000100	00000000	00000000	00000100	01000000	00000100	00000000
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(2160)	00000100	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2240)	00000000	01000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000100

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(  5200)  00000000  00000000  01000000  00000000  00000000  01000000  01000000  00000000  00000000  00000000
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(  5480)  00000000  00000000  00000000  00000000  01000000  00000000  00000100  00000100  01000000  01000000
(  5520)  00000100  01000100  00000100  00000000  00000000  00000000  00000100  00000100  01000000  01000000
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(  5600)  00000000  00000000  00000000  00000000  00000000  00000000
```

```
FILE        1  RECORD     5778  LENGTH     5624BYTES
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(    40)  FFFFFFFF  4EFB0100  01000100  00000000  00000000  00000000  00000000  00000000  FF03FF03  9813CA01
(    80)  E1006B00  46003200  23001400  05000000  F8036002  20018900  50003700  28001900  0A000000  FF03FC03
(   120)  7261B000  5A003000  2D001500  0F005000  3A033A03  3A033A03  79038403  87038903  8A038B03  8C038D03
(   160)  B403D803  F5030304  08040404  0C040D04  0E040F04  D406D406  F906F807  13071307  17071807  1A071B07
(   200)  1A022501  E8FF1300  6602E3FF  F9F04701  DAFF0FFD  E6FED7FF  DEFF98FD  DBFFFE01  A6FEE2FF  2A120501
(   240)  EEFF3700  44025BFF  00000000  D6000700  D300B400  B400C900  AB00B400  37000600  40000800  6E000000
(   280)  00000000  D6000700  D300B300  B400C800  AB00B400  37000600  40000800  6E000000  00000000  D6000700
(   320)  D300B400  B400C900  AB00B400  37000600  40000800  6E000000  00000000  D6000700  D300B400  B400C800
(   360)  AB00B400  38000600  40000800  6E000000  00000000  D6000700  D300B300  B400C800  AB00B400  38000600
(   400)  40000800  6E000000  00000000  D6000700  D300B400  B300C800  AB00B400  37000600  40000800  6E000000
(   440)  00000000  D6000700  D300B300  B400C900  AB00B400  37000600  40000800  6E000000  00000000  D6000700
(   480)  D300B400  B200C800  AB00B400  37000600  40000800  6E000000  00000000  00000000  00000000  00000200
(   520)  00000000  00000000  00000000  00000000  00000100  00000000  00000000  01000000  01000200  00000100
(   560)  02000000  02000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  01000000
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(   680)  00000000  01000100  00000000  02000000  00000000  00000000  00000000  00000000  00000000  00000000
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(  1440)  00000000  00000000  00000100  00000000  00000100  00000000  00000000  00000000  00000000  00000000
(  1480)  00000000  00000000  01000000  01000100  00000000  00000000  00000100  00000100  00000100  00000100
(  1520)  01000100  01000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
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(  1720)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  1760)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000100  00000000  00000000
(  1800)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
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(2480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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(2560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2640)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2680)	AF000000	00000000	00000000	00000000	00000000	00000000	06010000	00000000	00000000	00000000	00000000
(2720)	00000000	0F010000	00000000	00000000	00000000	00000000	0C017900	00000000	00000000	00000000	00000000
(2760)	00000000	00000000	0C010000	00000000	00000000	00000000	00000000	11010000	00000000	00000000	00000000
(2800)	00000000	00000000	10017F00	00000000	00000000	00000000	00001000	00000000	07010000	00000000	00000000
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(2920)	00000000	00000000	00000000	00000000	0E018300	00000000	00000000	00000000	00000000	00000000	00000000
(2960)	03010000	00000000	00000000	00000000	00000000	4E010000	00000000	00000000	00000000	00000000	00000000
(3000)	10018800	00000000	00000000	00000000	00000000	00000000	11010000	00000000	00000000	00000000	00000000
(3040)	00000000	09010000	00000000	00000000	00000000	00000000	09018600	00000000	00000000	00000000	00000000
(3080)	00000000	00000000	D1000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00002000	00000000	00000000
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(3520)	00000000	00000000	00000000	00000000	07010000	00000000	00000000	00000000	00000000	00000000	08010000
(3560)	00000000	00000000	00000000	00000000	00000100	00000000	00000000	00000000	00000000	00000000	07000100
(3600)	00000000	00000000	01000000	01000000	01000000	00000100	01000000	00000100	00000000	00000000	00000000
(3640)	00000000	00000000	00000000	00000100	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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(3720)	00000000	00000200	00000000	01000000	00000000	01000000	01000000	00000000	01000100	00000000	00000000
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(3800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(3840)	00000100	01000000	02000100	00000000	01000000	00000000	00000000	00000000	00000000	00000000	00000100
(3880)	01000000	00000200	00000000	01000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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(3960)	00000000	00000000	00000000	00000000	00000100	01000000	00000200	00000000	00000000	00000000	00000100
(4000)	00000100	00000000	00000100	00000100	01000000	00000000	00000000	00000000	00000000	00000000	00000000
(4040)	00000000	00000000	00000000	01000000	01000000	00000000	00000000	00000000	00000000	00000000	00000000
(4080)	00000000	00000000	01000000	00000000	00000000	01000000	00000200	00000000	00000200	00000000	00000100
(4120)	00000100	00000000	00000000	00000000	00000000	01000000	00000100	00000100	00000000	00000000	01000000
(4160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(4200)	00000000	00000000	00000000	00000000	00000000	00000000	00000200	00000100	00000000	00000000	00000100
(4240)	02000000	02000000	00000000	00000000	00000000	00000200	00000100	00000100	00000000	00000000	00000100
(4280)	00000000	00000000	00000000	00000000	00000000	00000000	00000100	00000000	00000000	00000000	00000000
(4320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	02000100
(4360)	00000100	00000200	00000200	00000000	00000100	02000000	00000000	01000000	00000200	00000000	00000000
(4400)	01000100	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(4440)	00000000	01000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(4480)	02000000	00000000	00000000	00000000	00000100	01000000	01000100	00000000	00000200	00000200	00000000
(4520)	01000000	00000100	00000100	00000000	00000000	01000000	00000000	00000000	00000000	00002000	00000000
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(4640)	01000100	01000000	01000000	02000200	01000000	01000100	00000000	01000000	00000000	00000000	00000000
(4680)	00000000	00000000	00000000	00000100	01000000	00000000	00000000	00000000	00000000	00000000	00000000
(4720)	00000000	00000000	01000100	00000000	01000100	00000000	01000100	00000000	01000100	01000100	01000100
(4760)	01000100	03000000	00000000	00000200	02000000	00000000	01000100	02000100	00000000	00000000	00000000
(4800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(4840)	00000000	00000000	00000000	00000000	00000000	00000000	00000100	00000100	00000100	00000100	00000000
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```
( 4560)  00000200  00000100  01000100  02000000  00000100  00000000  00000000  01000100  00000000  01000000
( 4600)  00000100  00000000  00000100  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 4640)  00000000  00000000  00000100  00000000  00000000  00000000  00000100  00000000  00000100  00000000
( 4680)  01000100  00000000  02000100  00000000  00000000  00000100  00000100  01000000  01000000  00000000
( 4720)  01000000  00000000  00000000  00000000  00000000  00000000  02000000  02000100  01000000  00000000
( 4760)  00000100  00000000  00000100  00000000  00000000  00000000  01000000  00000000  01000000  00000000
( 4800)  00000000  01000000  00000000  00000100  01000000  01000100  00000000  01000000  00000000  00000200
( 4840)  01000100  01000200  00000100  00000100  00000000  00000000  00000000  00000000  02000400  01000500
( 4880)  02000100  00000000  00000000  00000000  00000000  00000000  00000100  00000000  00000000  00000000
( 4920)  00000000  00000000  00000100  02000100  00000200  01000000  01000100  02000000  01000100  01000000
( 4960)  00000000  00000000  00000100  00000000  00000100  01000200  00000000  00000000  00000000  00000000
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( 5040)  00000000  00000000  00000000  00000000  00000000  00000000  00000200  00000200  01000200  02000000
( 5080)  00000000  00000100  01000000  00000100  00000100  01000100  01000200  01000000  00000000  00000000
( 5120)  00000000  02000100  05000000  02000000  00000100  00000000  00000000  00000000  00000000  00000000
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( 5200)  01000100  02000100  00000000  00000000  00000000  00000100  00000100  01000000  00000000  00000000
( 5240)  00000000  00000000  00000000  00000000  02000100  01000200  02000000  00000000  01000100  01000000
( 5280)  00000000  00000000  01000000  02000000  00000000  00000000  00000100  00000100  00000100  00000000
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( 5360)  01000000  00000100  00000000  00000000  00000000  00000000  00000000  00000000  00000000  01000100
( 5400)  00000000  00000000  00000000  01000000  00000000  00000000  00000000  01000100  01000000  00000000
( 5440)  00000100  00000100  01000000  02000000  00000000  00000000  01000100  00000000  00000000  00000100
( 5480)  00000100  01000000  00000000  01000100  01000000  00000000  00000000  00000000  02000000  02000200
( 5520)  03000000  00000100  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
( 5560)  01000000  00000300  02000000  00000100  00000100  01000000  01000000  00000000  01000100  01000100
( 5600)  00000100  01000000  00000100  00000000  01000100  01000000
```

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNCOR.	INPUT RETRIES #RECS.	TOTAL#
1	4877	4878	5624	0	0	0	0	0	0

ECJ DUMP STOPPED AFTER FILE 1 # OF PERMANENT READ ERRORS 0

START TIME 01/23/90 00:01:09 STOP TIME 01/23/90 00:04:34

$$