

#550

CDAW DATA SETS FROM 6.0

1979-053A-01A

1976-059A-01C

1977-007A-01C

77-048A-04B

78-096A-04A

79-017A-05A

80-014A-06A - SMM

78-062A-04A

550	76-059A-01C	SPMS-00541	1976-059A
550	77-007A-01C	SPMS-00541	1977-007A
550	77-048A-04B	SPMS-00348	GOES 2
550	78-062A-04A	SPMS-00178	GOES 3
550	78-096A-04A	SPIO-00097	TIROS N
550	79-017A-05A	SPMS-00574	STP P78-1
550	79-053A-01A	SPMS-00541	1979-053A
550	80-014A-06A	ASXR-00010	SMM

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

STP P78-1

HIGH LATITUDE PARTICLE SPECTROMTR

79-017A-05A SPMS-00574

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 6600 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005856	DS005856	D047133	1 - 3	03/22/79 - 03/22/79

REQ. AGENT

LSM

REQ NUMBER

V0144

ACQ. AGENT

DMS

79-017A-05A

STP P78-1

HIGH LATITUDE PARTICLE SPECTROMETER

This data set consists of 1 tape(s). The tape(s) is 9 track, 1600bpi,
bin with 3 file(s) of data. The time span and D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-47133	C-22006	3/22/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 79-0170-05A DATE DATA RECEIVED: 1/5/82
 DATE NSDF COORDINATOR CONSULTED: _____
 DATE SCIENTIST NOTIFIED: _____

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, ETC.) <u>1 Mag Tape</u>
PI AND AFFILIATION:	

SATELLITE NAME/NSDF NAME: STP P78-1
 EXPERIMENT NAME: _____
 DATA SET FULL NAME: High Latitude Particle Spectrometer
 CONTACT: _____ ACQUISITION SCIENTIST: DMS
 FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD
 THESE ARE: ☒ A NEW DATA SET ☐ ADDITIONS ☐ REPLACEMENTS ☐ OTHER (EXPLAIN BELOW)
 ACCESSION UNIT NUMBERS: DD 47133 C-22006

REMARKS:

1600 Bin 9th 3 files
3/22/79
CDAW

DATA RECEIPT NOTIFICATION SENT? ☐ Moran
 DATA TECHNICIAN

Date Jan 4 82
NSSDC ID 79-017A-051

CDAW DATA SET ENTRY

Date Rcvd : Jan 2 82 CDB: pb

Data Sent By : David Hardy

Material Rcvd : Letter, documentation, tape list and
1 tape

Satellite/NSSDC Name: STP P78-1

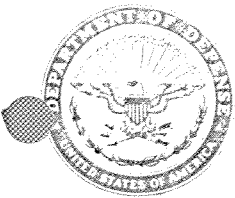
Data Set Name : High Latitude Particle Spectrometer

☒ New Data Set ☐ Additions ☐ Replacements
Comments _____

Time Coverage : 1979 Mar 22

Tapes To be Returned to: _____

Completed By: M. Teague



DEPARTMENT OF THE AIR FORCE
AIR FORCE GEOPHYSICS LABORATORY (AFSC)
HANSKOM AIR FORCE BASE, MASSACHUSETTS 01731

REPLY TO
ATTN OF:

AFGL/PHG/D.A. Hardy/3102

28 DEC 81

SUBJECT:

P78-1 Data for CDAW-6

TO:

Dr. James I. Vette
National Space Science Data Center
Code 601
NASA Goddard Space Flight Center
Greenbelt, MD 20771

Dear Jim,

Enclosed is a tape of the electron data from the
P78-1 satellite for the March 22 period to be studied
at the CDAW-6. A description of the tape format
is attached along with a printout of the data.
If you have any questions please contact me.

DAVID A. HARDY Atch as/
Plasmas, Particles & Fields Branch
Space Physics Division

P78-1 Tape format for NASA

Files will be created for $\phi 387$, $\phi 390$ and $\phi 395$

Tape will be 9 Track, 1600 bpi (~~5~~)

Tape created on CDC 6600 (odd parity)

All words are binary, 60 bits per word.

Tapes need not be returned

Tape Name: P78102

File 1 = Orbit 387

File 2 = Orbit 390

File 3 = Orbit 395

STRANGER TAPE

RT = S, BT = C

Each file will have a header record followed by a series of data records. Information for each orbit will terminate with an EOF.

Header Record (All words floating point)

<u>Word Number</u>	<u>Description</u>	
1	Orbit Number	
2	Year of orbit (79.)	
3	Month " "	
4	Day of month	
5	E ₁	The 15 energy values associated with the differential flux values in the data records. Energies are in keV
6	E ₂	
7	E ₃	
:	:	
19	E ₁₅	
20	ZERO	

Data Records (All words floating point)

<u>Word Number</u>	<u>Description</u>	
1	UT (seconds)	
2	Altitude (km)	
3	Longitude (±E) (deg)	
4	Geocentric latitude (deg)	
5	Geomagnetic latitude (deg)	
6	Invariant latitude (deg)	
7	Local time (seconds)	
8	Magnetic local time (seconds)	
9	Corrected geomagnetic latitude (deg)	
10	Detector number (1. or 2.)	
11	Differential flux measured at E ₁	units = $\frac{\text{number}}{\text{cm}^2 \cdot \text{sec} \cdot \text{sr}}$
12	" " " " " " " E ₂	
13	" " " " " " " E ₃	
:	:	
25	Differential flux measured at E ₁₅	
26	ZERO	

SMM

PULSE HEIGHT SPECTROMETER DATA

80-014A-06A ASXR-00010

This data set has been restored. There were originally three 9-track, 800 BPI tapes written in ASCII. There are two restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on a MOD-COMP computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004828	DS004828	D045286	1	06/29/80 - 06/29/80
		D045287	2	06/29/80 - 06/29/80
DR004829	DS004829	D045288	1	06/29/80 - 06/29/80

REQ. AGENT

LSM

REQ NUMBER

V0144

ACQ. AGENT

DMS

80-014A-06A

SMM

PULSE HEIGHT SPECTROMETER DATA

This data set consists of 3 tape(s). The tape(s) is 9 track, 800 bpi, ASCII with 1 file(s) of data. The time span and D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-45286	C-21492	6/29/80
D-45287	C-21493	6/29/80
D045288	C-21494	6/29/80

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID:

80-21411-06A

DATE DATA RECEIVED:

6/23/81

DATE NSDF COORDINATOR CONSULTED:

DATE SCIENTIST NOTIFIED:

SOURCE:

MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, ETC.)

PI AND AFFILIATION:

3 Mag - 100'

SATELLITE NAME/NSDF NAME:

SNM

EXPERIMENT NAME:

DATA SET FULL NAME:

WIDE AREA RECONSTRUCTION

CONTACT:

ACQUISITION SCIENTIST:

DME

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF:

100'

THESE ARE: ☒ A NEW DATA SET ☐ ADDITIONS ☐ REPLACEMENTS ☐ OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS:

DD-45286-88 C 21412

REMARKS:

87-

45288-800 Ascii Gen 1 file 6/29/80

DATA RECEIPT NOTIFICATION SENT? ☐

DATA TECHNICIAN

To: Ralph/Linda

HXRBS

Nees Data Set

3 Tapes - SMM Spacecraft.

80-014A-06

PI = Ken Frost / Brian Dennis

Tapes are ⁸⁰⁰~~1600~~ bpi?, ASCII, 120 char/record.

Files? probably 1.

It is ~~with~~ imperative to get tapes back
within the next week, so we can
put it into the SMM data base.

High Priority

Thanks.

Dim / K. Hardy.
6/29/80

D-45286	C-21492	02:30 - 02:50
D-45287	C-21493	10:30 - 11:00
D-45288	C-21494	18:00 - 18:40

NAME?

PHS?

80-014A-06

SMM

3 Tapes

```

1  C  SUBROUTINE WRTAPE IS USED IN PROGRAM PHSPLOT TO WRITE
2  C  AN OUTPUT TAPE TO BE USED BY THE OTHER EXPERIMENTS.
3  C  EACH FILE ON THE TAPE CONTAINS A HEADER RECORD FOLLOWED
4  C  BY ANY NUMBER OF DATA RECORDS.
5  C  THE HEADER RECORD HAS THE FOLLOWING FORMAT: 120 char.
6  C      I1 - 0 : CODE IDENTIFYING HEADER RECORD
7  C      I4 - START DAY OF INTERVAL (1 = 00:00:00 1/1/79)
8  C      I9 - START MSEC OF INTERVAL
9  C      I5 - TIME BETWEEN DATA INTERVALS IN MSEC
10 C      A4 - 'XRBS' (SOURCE ID)
11 C      1X
12 C      1&F6.1 - 16 CHANNEL EDGES IN KEV
13 C  THE DATA RECORDS HAVE THE FOLLOWING FORMAT:
14 C      REC 1. I1 - 1 : RECORD NUMBER IN DATA INTERVAL 120 char.
15 C          I6 - DATA INTERVAL NUMBER
16 C          13X- SPARE
17 C          10E10.3 - PHS CHANNELS 1 - 10
18 C      REC 2. I1 - 2 : RECORD NUMBER IN DATA INTERVAL 120 char.
19 C          I6 - DATA INTERVAL NUMBER
20 C          13X- SPARE
21 C          10E10.3 - PHS CHANNELS 11-15 AND LIVE TIME IN SECONDS
22 C  PAIRS OF DATA RECORDS CONTINUE UNTIL THE SELECTED END TIME
23 C  IS REACHED.
24 C  THE PHS DATA IS IN UNITS OF COUNTS OR COUNTS/SECOND
25 C  DEPENDING ON WHETHER THE LVTIM OPTION WAS SET.
26 C
27 C*****
28 C
29 C  SUBROUTINE WRTAPE
30 C  IMPLICIT REAL*8(D), INTEGER*4(H), LOGICAL*2(Q)
31 C  COMMON /DMSRV/ HSMS, HSME, HSMT, HSMI, HSMH, HSMB, HSMVE,
32 C  *      HSMHAF, HSMHID, HDUM1(6), HPHSC(15), HLT, HCL, HFLARE,
33 C  *      HSLLR, HSLLR0, HSLLR1, HDUM2(4), JAVRF, JCRSM,
34 C  *      JNRSM, JENDFS, MASKPH, JDMSRF, JBINSM, JDUM(9)
35 C
36 C  COMMON /DMSRV/ HMFS, HMFT, HMFE, HMFI, HMFH, HDUM(9),
37 C  1 IDUM(2), IADBLU, LADBLU, ISITE, ISECCD, IHSFC, IBADMF, NBADMF,
38 C  2 IDWEL, MDMP, JSC1, JSARS, MSTAT, ITS, MFTYP,
39 C  3 IUNIT, IRMODE, ITSFC, LUN, IASCL, ISW, ITDECM,
40 C  4 ITSF, ITDWE, ITDMP, ITSLR, ITFLAG, IWAIT,
41 C  5 ITGLE, JENDF, JDMSRF, JBINSF, JEOT, IDUMB(10),
42 C  6 IFCB(10)
43 C
44 C  COMMON /OPVAR/ ICMND, LIST, IERR, IOP(20), ROP(20)
45 C
46 C  DIMENSION IUT(3), Y(15), IT(2), RCHAN(16), ISUT(3), INUT(3)
47 C
48 C  EQUIVALENCE (ITAPE, IOP(4)), (HMSEC, INUT(2))
49 C  EQUIVALENCE (LVTIM, IOP(2))
50 C
51 C  DATA HXRBS/'XRBS'/
52 C  DATA IT/'T0', 'T1'/
53 C  DATA ISUT/0.0, 64/
54 C
55 C  CALL FINLUN(IT(ITAPE+1), LOUT)
56 C
57 C  WRITE HEADER RECORD
58 C  IHEAD=0

```

```

60 CALL SUBUT(IUT,ISUT,INUT,IDEL)
61 HDEL=HSMAVE * 128
62 CALL CH2KEV(JSC1,JSARS,RCHAN)
63 WRITE(LOUT,1000,ERR=800) IHEAD,INUT(1),HMSEC,HDEL,HXRBS,RCHAN
64 1000 FORMAT(I1,I4,I9,I5,A4,1X,16F6.1)
65 C WRITE(22,1001) IHEAD,INUT(1),HMSEC,HDEL,HXRBS,RCHAN
66 C1001 FORMAT(' HEADER:',I1,I4,I9,I5,A4,1X,16F6.1)
67 C
68 C INT WILL COUNT THE DATA INTERVALS
69 INT=0
70 C
71 C INITIALIZE DMSRVS PACKAGE FOR THIS ACCUMULATION
72 CALL BINSM
73 C
74 C NXTSM WILL ADD HSMAVE SAMPLES TOGETHER AND STORE EACH
75 C CHANNEL SEPARATELY IN COMMON /DMSRVS/ ARRAY HPHSC
76 50 CONTINUE
77 CALL NXTSM
78 C
79 C WHEN JENDFS=1, WE HAVE HIT END OF REQUESTED TIME.
80 IF(JENDFS.EQ.1) GO TO 900
81 INT=INT + 1
82 C
83 C WRITE PH3 DATA IN 2 RECORDS (CHANNELS 1-10, THEN CHANNELS
84 C 11-15).
85 IREC=1
86 SEC=HLT * .128E-3
87 DO 60 I=1,15
88 Y(I)=HPHSC(I)
89 IF(LVTIM.EQ.1) Y(I)=Y(I) / SEC
90 60 CONTINUE
91 WRITE(LOUT,2000,ERR=800) IREC,INT,(Y(I),I=1,10)
92 2000 FORMAT(I1,I6,13X,10E10.4)
93 IREC=2
94 WRITE(LOUT,2000,ERR=800) IREC,INT,(Y(I),I=11,15),SEC
95 C WRITE(22,2005) IREC,INT,Y,SEC
96 C2005 FORMAT(1X,I1,I6,10E10.3/8X,5E10.3)
97 GO TO 50
98 C
99 800 CONTINUE
100 WRITE(LUN,4000)
101 4000 FORMAT(' ERROR WRITING TAPE. ')
102 GO TO 999
103 C
104 900 CONTINUE
105 WRITE(LUN,9000) INT,IT(ITAPE+1)
106 9000 FORMAT(1X,I10,' INTERVALS OF DATA WRITTEN ON TAPE ',A2)
107 ENDFILE LOUT
108 ENDFILE LOUT
109 BACKSPACE LOUT
110 C
111 999 CONTINUE
112 RETURN
113 END
114
115
116

```

1976-059A-01C SPMS-00541

1977-007A-01C

1979-053A-01A

ELECTRON AND PROTON RAW COUNT RATE

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY THEY CONTAINED TWO 9-TRACK, 1600 BPI TAPES, WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A CDC 7600 COMPUTER AND WERE RESTORED ON THE MRS SYSTEM. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005287	DS005287	D045914	1	03/31/79
			2	04/01/79
			3	03/31/79
			4	04/01/79
			5	04/01/79
			6	03/22/79
		D063544	7	04/24/79
			8	05/11/80

REQ. AGENT

LSM

RAND NO.

V0144

ACQ. AGENT

DMS

1979-053A-01A

1976-059A-01C

1977-007A-01C

ELECTRON AND PROTON RAW COUNT RATE

This data set consists of 2 magnetic tapes. The tapes are 9 track, 1600 BPI, binary with multi-filed data. They were created on a CDC 7600 computer. The time span and D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-45914	C-21625	FILES 1 3/31/79
		2 4/1/79
		3 3/31/79
		4 4/1/79
		5 4/1/79
		6 3/22/79
D-63544	C-24067	FILES 1 4/24/79
		2 5/11/80

INFORMATION SHEET FOR INCOMING DATA

1979-053A-01A

1979-053A-01C

1979-053A-01C

DATE DATA RECEIVED: 05/24/81

NSSDC ID: DATE NSDF COORDINATOR CONSULTED:

DATE SCIENTIST NOTIFIED:

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, ETC.) 1 mag-tape
PI AND AFFILIATION:	

SATELLITE NAME/NSDF NAME:

EXPERIMENT NAME:

DATA SET FULL NAME: ELECTRON AND PROTON RAW COUNT RATE

CONTACT: ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DB

THESE ARE: ☒ A NEW DATA SET ☐ ADDITIONS ☐ REPLACEMENTS ☐ OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DB 45914 C-21625

REMARKS:	1600 BIN 94K 6 files <table border="1"> <tr> <td>3/31 FI</td> <td>4/1</td> <td>5</td> </tr> <tr> <td>4/1 2</td> <td>3/22</td> <td>6</td> </tr> <tr> <td>3/31 3</td> <td></td> <td></td> </tr> <tr> <td>4/1 4</td> <td></td> <td></td> </tr> </table> CDAW	3/31 FI	4/1	5	4/1 2	3/22	6	3/31 3			4/1 4		
3/31 FI	4/1	5											
4/1 2	3/22	6											
3/31 3													
4/1 4													

DATA RECEIPT NOTIFICATION SENT? ☐

J. Thorian

DATA TECHNICIAN

Questions to Baker
1. Defn of your V,D,H system

Date August 14, 1981

NSSDC ID 1976-059A-01
1977-007A-01

CDAW DATA SET ENTRY

Date Rcvd : August 14, 1981 CDB: pl

Data Sent By : Dan Baker

Material Rcvd : 1 tape 9-track 1600 lpi
documentation, verification plots
dump

Satellite/NSSDC Name: 1976-059A / 1977-007A

Data Set Name : Electron and Proton ^{Raw} Count Rate

☒ New Data Set ☐ Additions ☐ Replacements
Comments Format differs from OIA, OIB

Time Coverage : March 22, March 31, + April 1

Tapes To Be Returned to: Not To Be Returned

Please return
DUMP to us
Thanks

Completed By: Kathy Headley

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SSO-81-750
MS-436

Dan Baker
CDB 6
1976-059A-01C
1977-007A-01C

July 15, 1981

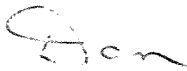
Dr. J. I. Vette
(CDB-6 Workshop)
Code 601
NASA Goddard Space Flight Center
Greenbelt, MD 20771

Dear Jim,

Under this cover please find a magnetic tape which contains our geostationary orbit energetic particle data for the Coordinated Data Analysis Workshop-6. We have also enclosed the Coordinated Data Base (CDB) tape documentation form. In a brief attached write-up, I describe how the raw data on the tape should be converted to differential fluxes and averaged for 1-minute intervals. As per your request, we also include an octal dump of the first and last records of each file, exemplary plots of raw count rates (counts/8ms sample) and converted fluxes, and a list of significant time gaps.

We hope that the enclosed information is adequate to get the CPA data into the CDB with no major difficulty. Please call me if you have questions.

Sincerely,



Daniel N. Baker

DNB:ek
Enc. a/s
cy: SSO File
CRMO (2)

Notes for the Los Alamos Synchronous Orbit
Data Submission to the CDAW-6 Coordinated Data Base

by

D. N. Baker

The Charged-particle Analyzer (CPA) makes measurements of the electron (LoE/HiE) and ion (LoP/HiP) environment at $6.6 R_e$. The LoE, HiE, and LoP make pseudo-integral measurements, i.e., from a variety of threshold values (E_i , $i = 1, n$) up to a fixed upper energy level for each sensor. The HiP measurements are inherently differential. It seems most useful and relevant to form average differential particle intensities ($\text{cm}^{-2}\text{-s}^{-1}\text{-sr}^{-1}\text{-keV}^{-1}$) for the CPA data and include these (as opposed to raw count rates) in the CDB. For magnetospheric studies, it seems irrelevant to include HiP values above ~ 2 MeV. The point of this note is to describe the method of count-rate-to-flux conversion for the CPA data tape.

The basic idea of the flux conversion is to take a channel count rate and subtract from it the next higher energy channel count rate to get a differential "count rate". For example, the first differential low-energy electron count rate (DLOE1) is formed by the procedure

$$\text{DLOE1} = \text{RALOE1} - \text{RALOE2} = Z(5) - Z(6)$$

To complete the process, a multiplication by a flux conversion factor should be performed (to take account of geometric factor, sample time, efficiency, etc.). Thus

$$j(30\text{-}45 \text{ keV}) = \text{DLOE1} * \text{PHLE}(1) = (Z(5) - Z(6)) * 2480.2$$

and j is now the number of 30-45 keV electrons per $\text{cm}^2\text{-s-sr-keV}$. Similar procedures apply for other LoE channels:

$$\begin{aligned}
j(45-65) &= DLOE2 * PHLE(2) \\
j(65-95) &= DLOE3 * PHLE(3) \\
j(95-140) &= DLOE4 * PHLE(4) \\
j(140-200) &= DLOE5 * PHLE(5)
\end{aligned}$$

Note that RALOE6 is differential (200-300 keV) and

$$j(200-300 \text{ keV}) = Z(10) * PHLE(6)$$

Table 2 shows the various sensor energy ranges. The flux conversion for HiE and LoP is similar to that shown above:

$$j(E_i \leq E_e \leq E_{i+1}) = DHIEi * PHHE(i)$$

and

$$j(E_i \leq E_p \leq E_{i+1}) = DLOPi * PHLp(i)$$

The last channels of HiE and LoP are again differential:

$$\begin{aligned}
j(1.4 \leq E_e \leq 2.0 \text{ MeV}) &= Z(16) * PHHE(6) \\
j(480 \leq E_p \leq 560 \text{ keV}) &= Z(26) * PHLp(10)
\end{aligned}$$

The conversion of HiP count rates to flux is more simple:

$$j_i = RAH1Pi * PHHP(i)$$

that is,

$$\begin{aligned}
j_1 &= Z(27) * PHHP(1) \\
&\vdots
\end{aligned}$$

We suggest that HiP fluxes only up to channel HiP7 (1.7-2.1 MeV) be included in the CDB.

The suggested procedure for handling the CPA data would be to produce all the differential fluxes described above and then to average all quantities for 1-minute periods. Parameters Z(2) through Z(4), all differential fluxes (29 channels), and parameters Z(43) through Z(49) should be averaged over each minute UT.

The following annotated sections of a simple flux conversion program illustrate applicable flux conversion values for each sensor system (LoE, LoP, etc.) and how these are applied to differenced count rates.

Flux Conversion Factors

DIMENSION PHLE(6,3), PHHE(6,3), PHLP(10,3), PHHP(16,3)
DATA (PHLE=2480.2, 1593.8, 1157.4, 771.6, 534.2, 365.5,
A 3959.3, 1973.6, 1157.4, 771.6, 534.2, 365.5,

← FLUX CONVERSION FACTORS, LoE, 76-05
" " " " " " 77-01

DATA (PHHE=73.88, 50.69, 34.55, 23.46, 16.08, 10.85,
1 73.88, 50.69, 34.55, 23.46, 16.08, 10.85,

← HiE, 76-059
HiE, 77-007

DATA (PHLP=1750.0, 1602.6, 1602.6, 1282.1, 915.7,
1 801.3, 493.1, 457.9, 377.1, 337.4,

← LoP, 76-059

2 2135.7, 9772.2, 823.5, 1282.1, 915.7,
3 801.3, 493.1, 457.9, 377.1, 337.4,

← LoP, 77-007

DATA (PHHP=29.9, 21.04, 16.71, 12.35, 9.16, 7.28, 7.28, 1.42,
A .661, .661, .312, .245, .0979, .0555, .0521, .0372,
B 30.9, 20.3, 18.9, 12.4, 9.47, 7.28, 6.61, 1.41,
C 0.672, 0.618, 0.355, 0.229, 0.0977, 0.0558, 0.0521, 0.0372,

} HiP, 76-059

} HiP, 77-007

NBD=1
IF(NBIRD.EQ.4+3151)NBD=2
IF(NBIRD.EQ.4+7484)NBD=3

LOAD TIME

T(M)=Z(1)/1000.

LOAD LO-E, HI-E, AND DIFFERENCES

DO 30 J=1,6

ELO(M,J)=Z(J+4)

EHI(M,J)=Z(J+10)

IF(J.GE.6)GO TO 10

DELO(M,J)=Z(J+4)-Z(J+5)

DEHI(M,J)=Z(J+10)-Z(J+11)

GO TO 20

10 DELJ(M,J)=Z(J+4)

DEHI(M,J)=Z(J+10)

} differenced count rates for electrons

TAKE LOG BASE 10 OF THE VALUES

20 IF(ELO(M,J).LE.0.0)ELO(M,J)=0.01

IF(EHI(M,J).LE.0.0)EHI(M,J)=0.01

IF(DELO(M,J).LE.0.0)DELO(M,J)=0.001

IF(DEHI(M,J).LE.0.0)DEHI(M,J)=0.001

ELO(M,J)=ALOG10(ELO(M,J))

EHI(M,J)=ALOG10(EHI(M,J))

DELO(M,J)=ALOG10(DELO(M,J)*PHLE(J,NBD))

DEHI(M,J)=ALOG10(DEHI(M,J)*PHHE(J,NBD))

} for plotting

flux conversion factors applied

30 CONTINUE

LOAD LO-P-A, LO-P-B, AND DIFFERENCES FOR EACH

K=0

DO 60 J=1,10,2

K=K+1

ALOP(M,K)=Z(J+16)

BLOP(M,K)=Z(J+17)

DALOP(M,K)=Z(J+16)-Z(J+17)

IF(J.EQ.9)GO TO 40

DBLOP(M,K)=Z(J+17)-Z(J+18)

GO TO 50

40 DBLOP(M,K)=Z(J+17)

} differenced count rates for protons

TAKE LOG BASE 10 OF THE VALUES

50 IF(ALOP(M,K).LE.0.0)ALOP(M,K)=0.01

IF(BLOP(M,K).LE.0.0)BLOP(M,K)=0.01

IF(DALOP(M,K).LE.0.0)DALOP(M,K)=0.0001

IF(DBLOP(M,K).LE.0.0)DBLOP(M,K)=0.0001

ALOP(M,K)=ALOG10(ALOP(M,K))

BLOP(M,K)=ALOG10(BLOP(M,K))

DALOP(M,K)=ALOG10(DALOP(M,K)*PHLP(J,NBD))

DBLOP(M,K)=ALOG10(DBLOP(M,K)*PHLP(J+1,NBD))

} for plotting

flux conversion factors applied

60 CONTINUE

LOAD HI-P-A, AND HI-P-B

DO 70 J=1,5

HIP(A,M,J)=Z(J+26)

HIP(B,M,J)=Z(J+32)

IF(HIP(A,M,J).LE.0.0)HIP(A,M,J)=0.001

IF(HIP(B,M,J).LE.0.0)HIP(B,M,J)=0.001

HIP(A,M,J)=ALOG10(HIP(A,M,J)*PHHP(J,NBD))

HIP(B,M,J)=ALOG10(HIP(B,M,J)*PHHP(J+6,NBD))

HiP flux conversion

70 CONTINUE

Table 1. CDAW-6 DATA SUBMISSION TO THE COORDINATED DATA BASE: TAPE FORMAT

Each record consists of 59 floating point (or integer, as noted) words.
They are:

Word	mnemonic	Meaning
Z(1)	TIMFF	Time of first frame; 10-s sample start in msec UT
(2)	HH	Normalized local magnetic field H-comp
(3)	VV	Normalized local magnetic field V-comp
(4)	DD	Normalized local magnetic field D-comp
(5-10)	RALOE1-6	LoE (30-300 keV) electron spin-av. count/8ms
(11-16)	RAHIE1-6	HiE (200-2000 keV) electron spin-av. counts/8ms
(17-26)	RALOP1-10	LoP (145-560 keV) proton spin-av. counts/8ms
(27-42)	RAHIP1-16	HiP (400 keV-150 MeV) proton spin-av. counts/8ms
(43)	THETAC	θ_B ; meridional tilt of local mag. field line
(44)	PHIC	ϕ_B ; azimuthal tilt of local mag. field line
(45)	C2	2nd. order (>30 keV) electron anisotropy amplit.
(46)	C4	4th order (>30 keV) electron anisotropy amplitude
(47)	PAEW	East-west proton (>145 keV) gradient anisotropy
(48)	PANS	North-south proton (>145 keV) gradient anisotropy
Z(49)	TLOCAL	S/C geographic local time
IZ(50)	KDATE	Date (YY/MM/DD): character data
IZ(51)	NBIRD	S/C I.D. (1976-059 = 2112; 1977-007 = 3151): char. Data
IZ(52)	IPSFIL	DATA FILE (Irrelevant to CDB)
Z(53)	ERAD	Radial distance (geocentric) of S/C
(54)	GLONG	Geographic Longitude of S/C
(55)	GLAT	Geographic Latitude of S/C
(56)	EPMODE	Instrument mode (Irrelevant to CSB)
(57)	EPA	Instrument mode (Irrelevant to CDB)
Z(58)	EPB	Instrument mode (Irrelevant to CDB)
IZ(59)	LEMODE	Instrument mode (Irrelevant to CDB)

Table 2. CPA Differential Energy Channels for Spacecraft 1976-059
and for Spacecraft 1977-007

Channel Designation	Energy Range, keV
LoE	
1	$30 \leq E_e < 45$
2	$45 \leq E_e < 65$
3	$65 \leq E_e < 95$
4	$95 \leq E_e < 140$
5	$140 \leq E_e < 200$
6	$200 \leq E_e < 300$
HiE	
1	$200 \leq E_e < 300$
2	$300 \leq E_e < 430$
3	$430 \leq E_e < 630$
4	$630 \leq E_e < 930$
5	$930 \leq E_e < 1360$
6	$1360 \leq E_e < 2000$
LoP	
1	$145 \leq E_p < 160$
2	$160 \leq E_p < 175$
3	$175 \leq E_p < 190$
4	$190 \leq E_p < 215$
5	$215 \leq E_p < 245$
6	$245 \leq E_p < 290$
7	$290 \leq E_p < 340$
8	$340 \leq E_p < 400$
9	$400 \leq E_p < 480$
10	$480 \leq E_p < 560$

Table 2 CPA Differential Energy Channels for Spacecraft 1976-059
and for Spacecraft 1977-007

(con't)

Channel Designation	Proton Energy Range, MeV
HiP	
1	0.4-0.5
2	0.5-0.6
3	0.6-0.8
4	0.8-1.0
5	1.0-1.3
6	1.3-1.7
7	1.7-2.1
8	2.7-4.7
9	4.7-9.0
10	9.0-13
11	13-22
12	22-34
13	34-50
14	50-78
15	78-108
16	108-150

LOS ALAMOS COORDINATED DATA BASE SUBMISSION

<u>MAJOR DATA</u>	<u>GAPS</u>	<u>CDAW 6</u>
S/C	UT (Seconds)	DATE
1976 - 059	64400 - 66700	790331
	69300 - 71500 spotty	790331
	1900 - 2250	790401
	25100 - 25400	790322
	36600 - 36900	790322
	51200 - 60100	790322
1977 - 059	64400 - 66700	790331
	1900 - 2250	790401
	25100 - 25400	790322
	36700 - 37750	790322
	51200 - 60100	790322
	61200 - 62000 spotty	790322

<u>FILE</u>	<u>RECORDS</u>	<u>SPACECRAFT</u>	<u>DATA DATE</u>
1	2578	1976-059	79/03/31
2	1389	1976-059	79/04/01
3	3391	1977-007	79/03/31
4	1723	1977-007	79/04/01
5	2642	1976-059	79/03/22
6	3199	1977-007	79/03/22



National Aeronautics and
Space Administration

DATA ANALYSIS WORKSHOP CENTER

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (please print)

1. Data Set Name CHARGED - PARTICLE ANALYZER (CPA)		
2. Scientific Contact DANIEL N. BAKER		3. Telephone No. or Telex No. 505-667-3101 (FTS 843-3101)
4. Address SPACE SCIENCES OFFICE/MS 436 / LOS ALAMOS NAT. LAB.		
5. City LOS ALAMOS	6. State NM	7. ZIP Code or Country 87545
8. Programmer Contact MARILYN F. HALBIG (505-667-2508)		

SECTION II. TAPE DESCRIPTION

1. No. of Tapes Submitted ONE (1)	2. Tape Density ☐ 800 bpi ☒ 1600 bpi
3. No. of Files (per tape) 6	
4. No. of End of File Marks 3 single ; 1 double	5. No. of Tracks ☐ 7 ☒ 9
6. Recording Parity ODD	7. Make and Model of Computer Used to Generate Tape CDC 7600
8. Are tapes written in binary, coded or both? (e.g. BCD) Binary	
9. What floating point representation is used? (e.g. CDC 64 bit) CDC 60 BIT	
10. What integer representation is used? CDC Integer (and character data as noted)	
11. No. of Physical Records (per file) As Listed in Attachment ↑ 6-bit ASCII	
12. Are original tapes to be returned? ☐ Yes ☒ No	
13. Start and Stop Time of Each File (If more space is needed, please attach.) As Listed in Attachment	

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

Attached

SECTION IV. TO BE FILLED IN BY DAWOC ONLY

CDB No.

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

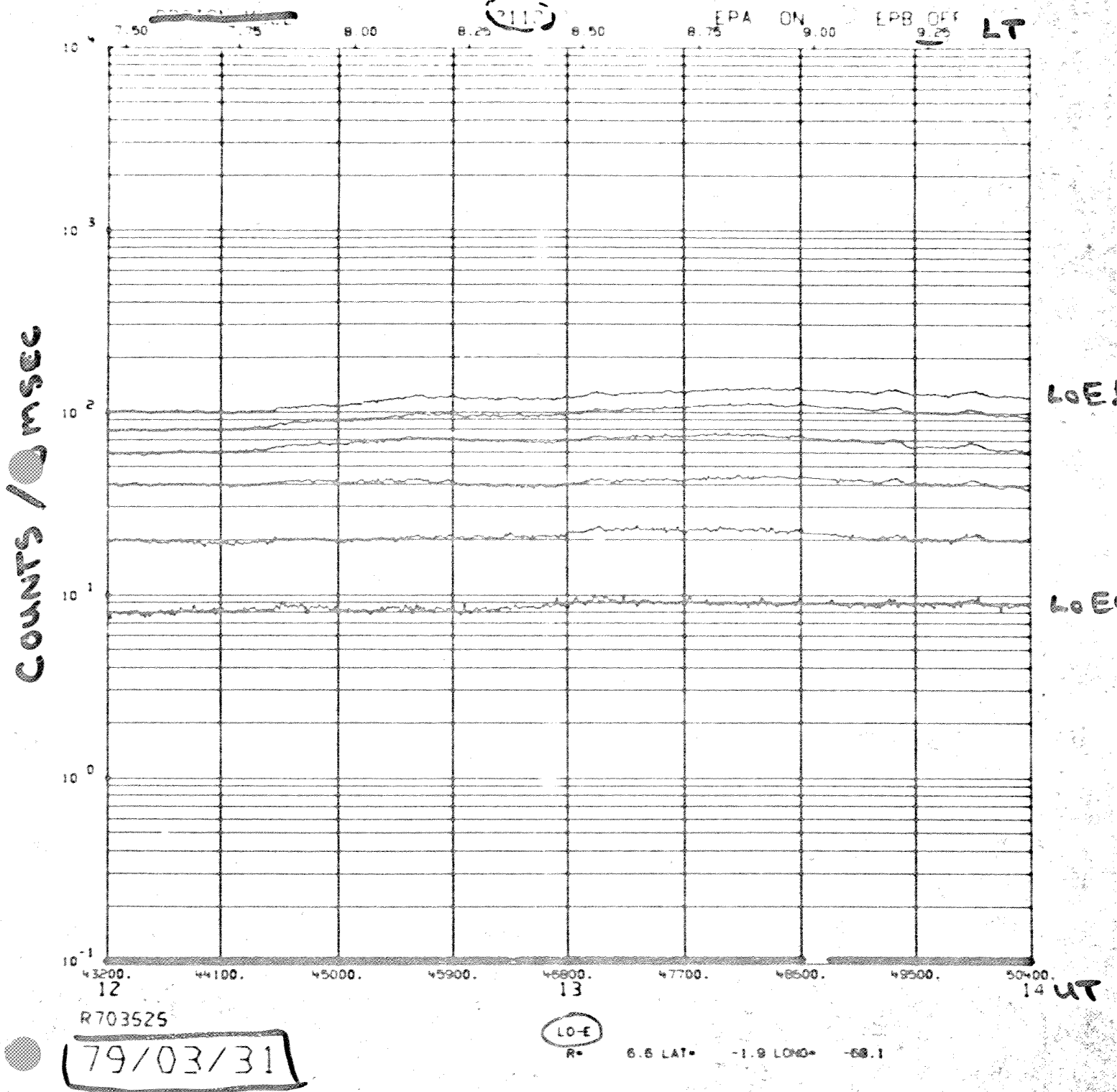
Raw Data

File L

S/C 1976-059

1200-1400 UT

79/03/31



PROTON MODE

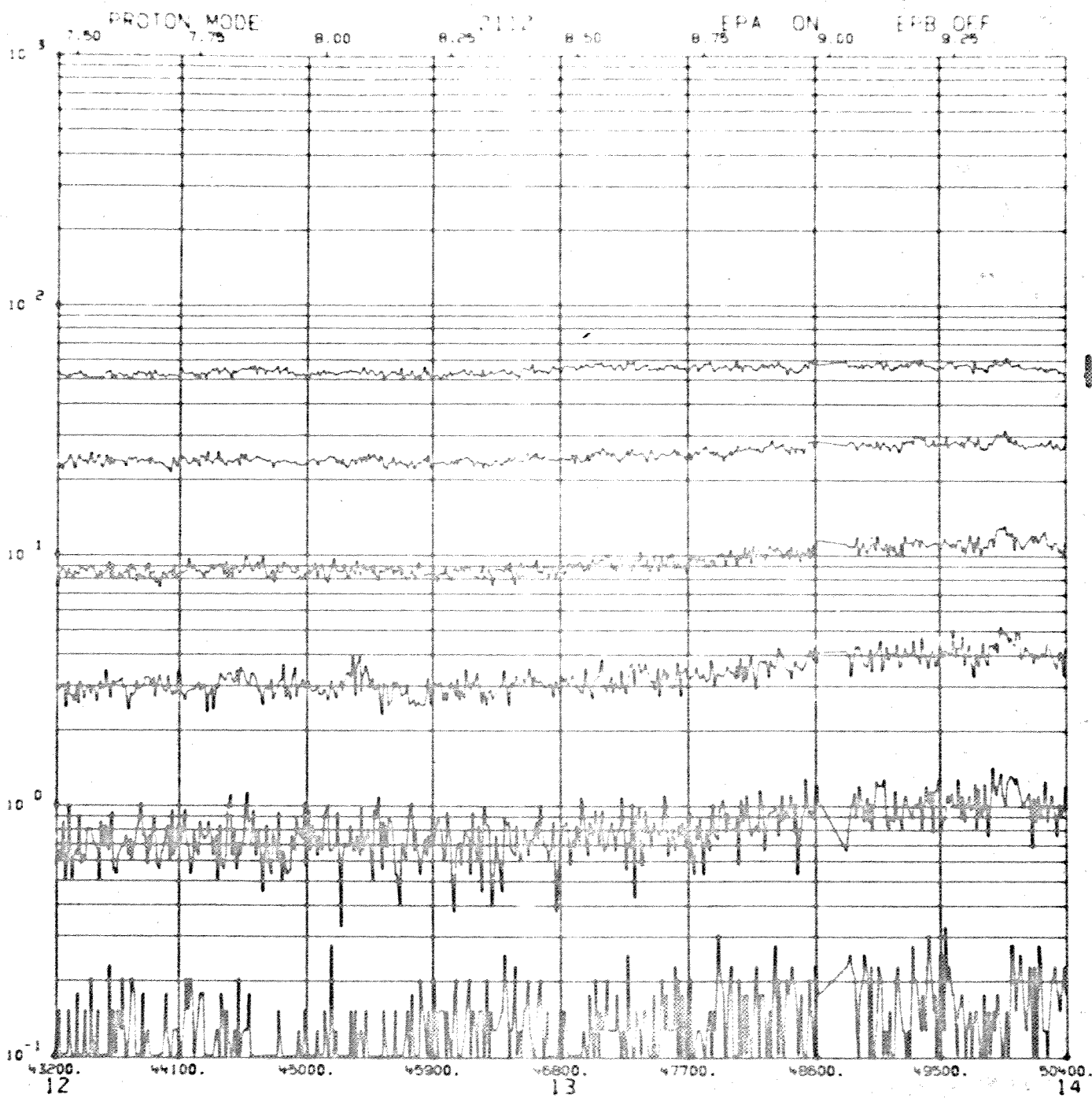
2112

EPA ON

EPB OFF

7.50 7.75 8.00 8.25 8.50 8.75 9.00 9.25

COUNTS / 8 msec



HIE

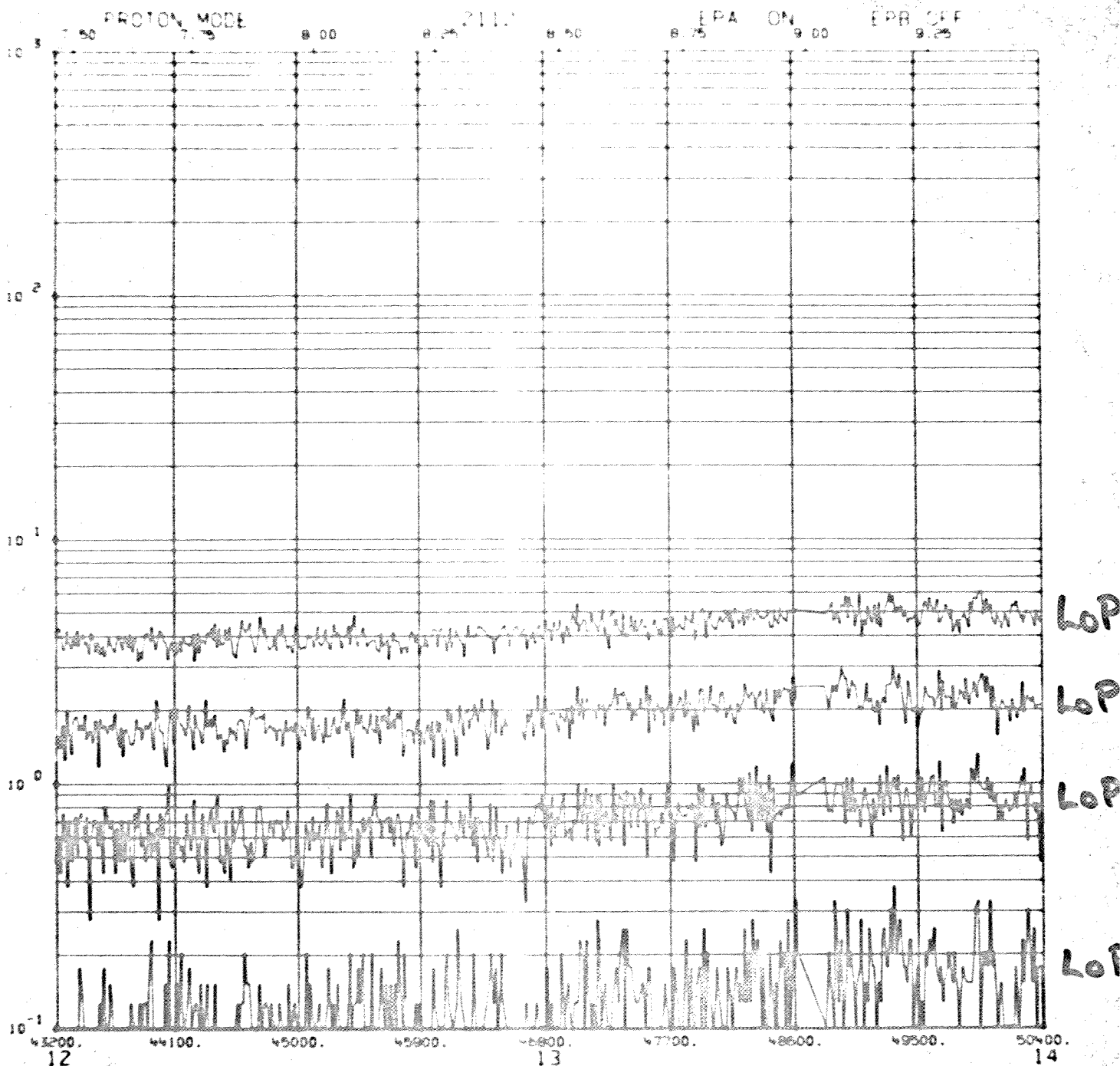
HIE

R703525

79/03/31

HIE
R* 5.6 LAT* -1.9 LONG* -68.1

COUNTS / 8msec



R703525

79/03/31

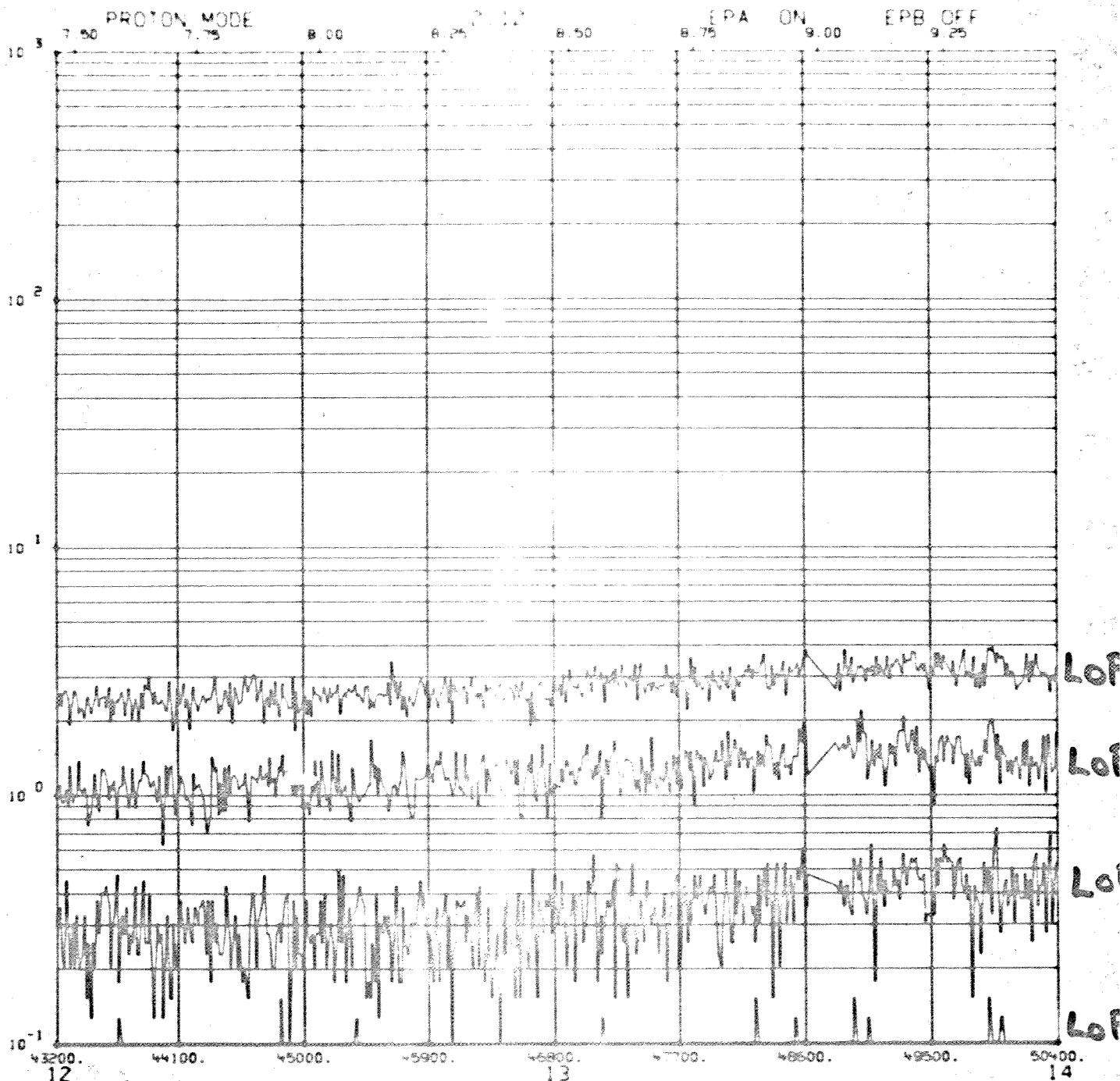
LO-P-A

R= 6.6 LAT= -1.9 LONG= -68.1

PROTON MODE 2112 EPA ON EPB OFF

7.50 7.75 8.00 8.25 8.50 8.75 9.00 9.25

COUNTS / 8msec



R703525

79/03/31

LO-P-B

R= 6.6 LAT= -1.9 LONG= -68.1

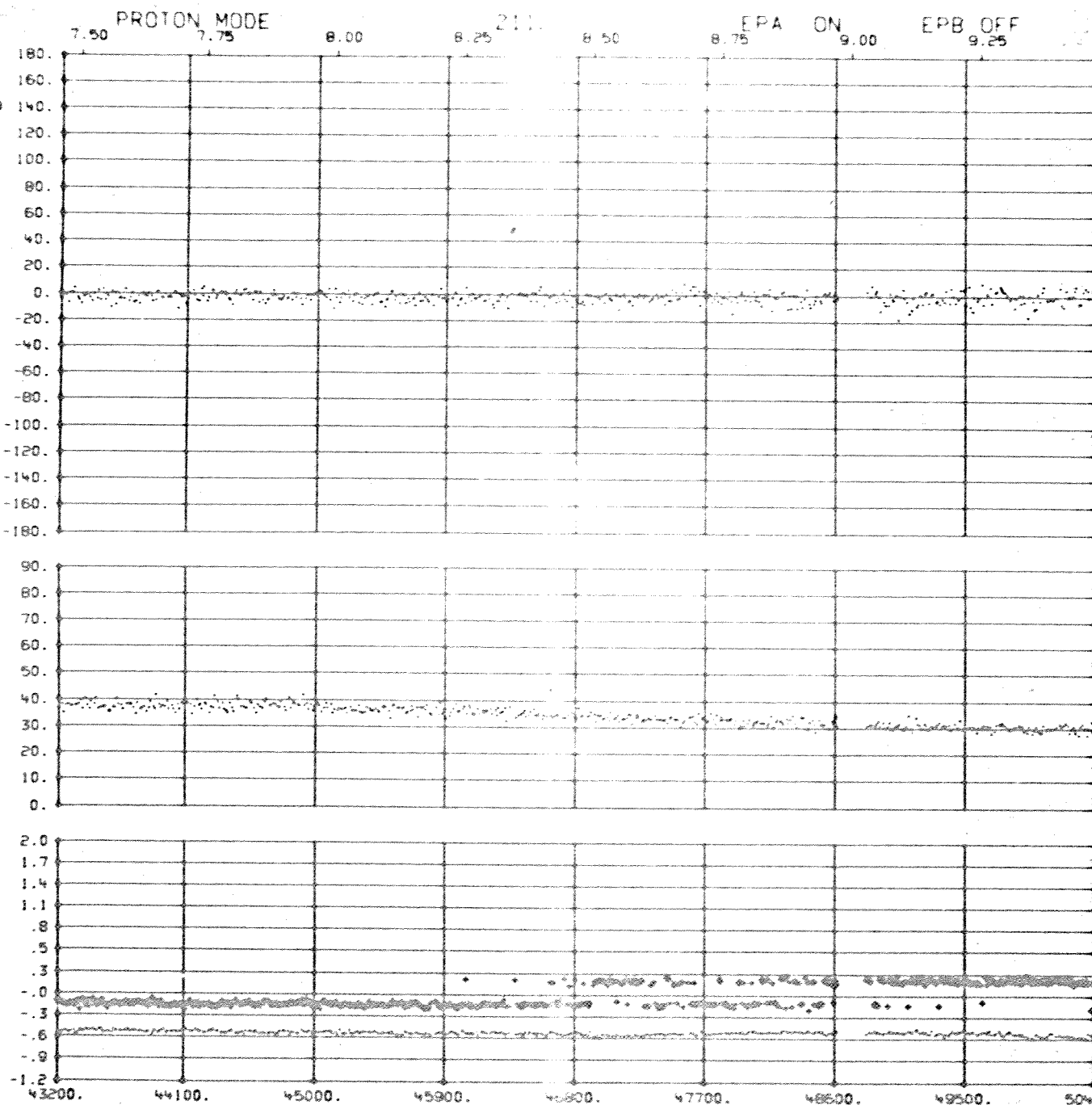
PROTON MODE 2112 EPA ON EPB OFF

7.50 7.75 8.00 8.25 8.50 8.75 9.00 9.25

43200 44100 45000 45900 46800 47700 48600 49500 50400

79/03/31

PHIC (deg)
THETAC (deg)



R703525

79/03/31

PHI, THETAC, C2, C4

R* 6.6 LAT* -1.9 LONG* -68.1

PROTON MODE

2112

EPA ON

EPB OFF



R703525

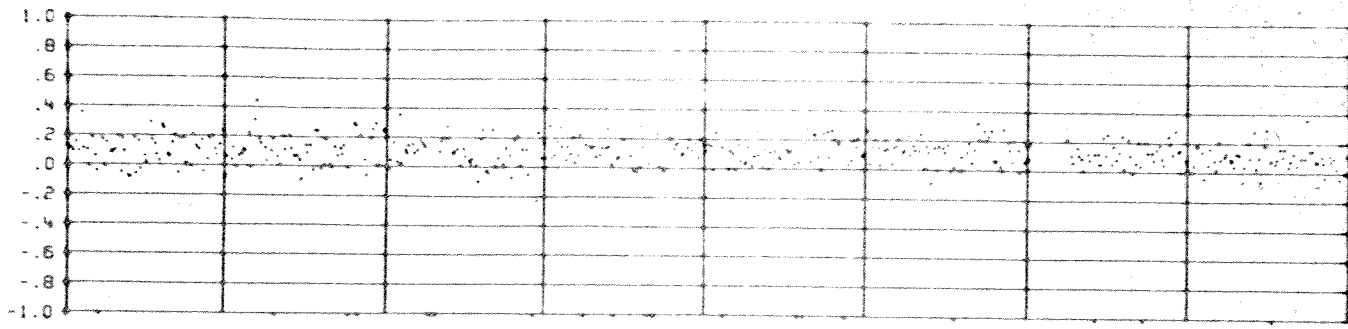
79/03/31

PROTON MODE

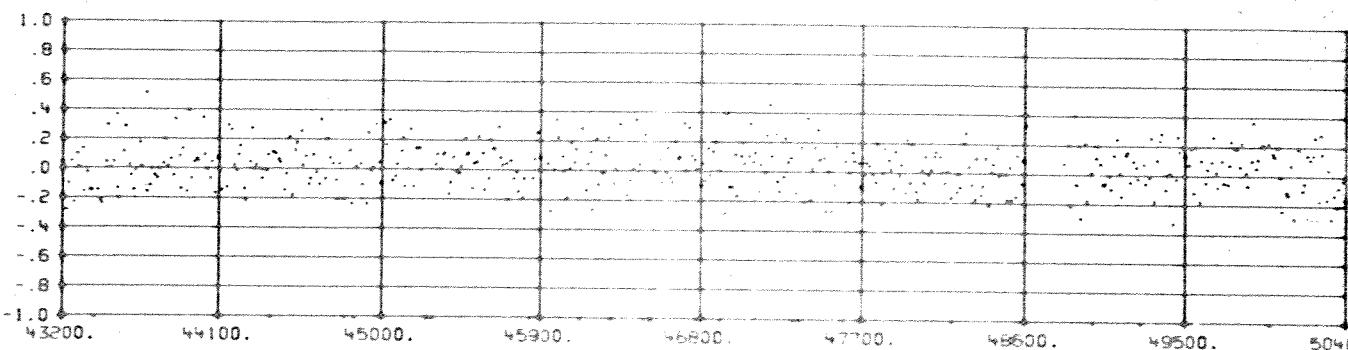
2112

EPA ON

EPB OFF



PAE



PAN

R703525

79/03/31

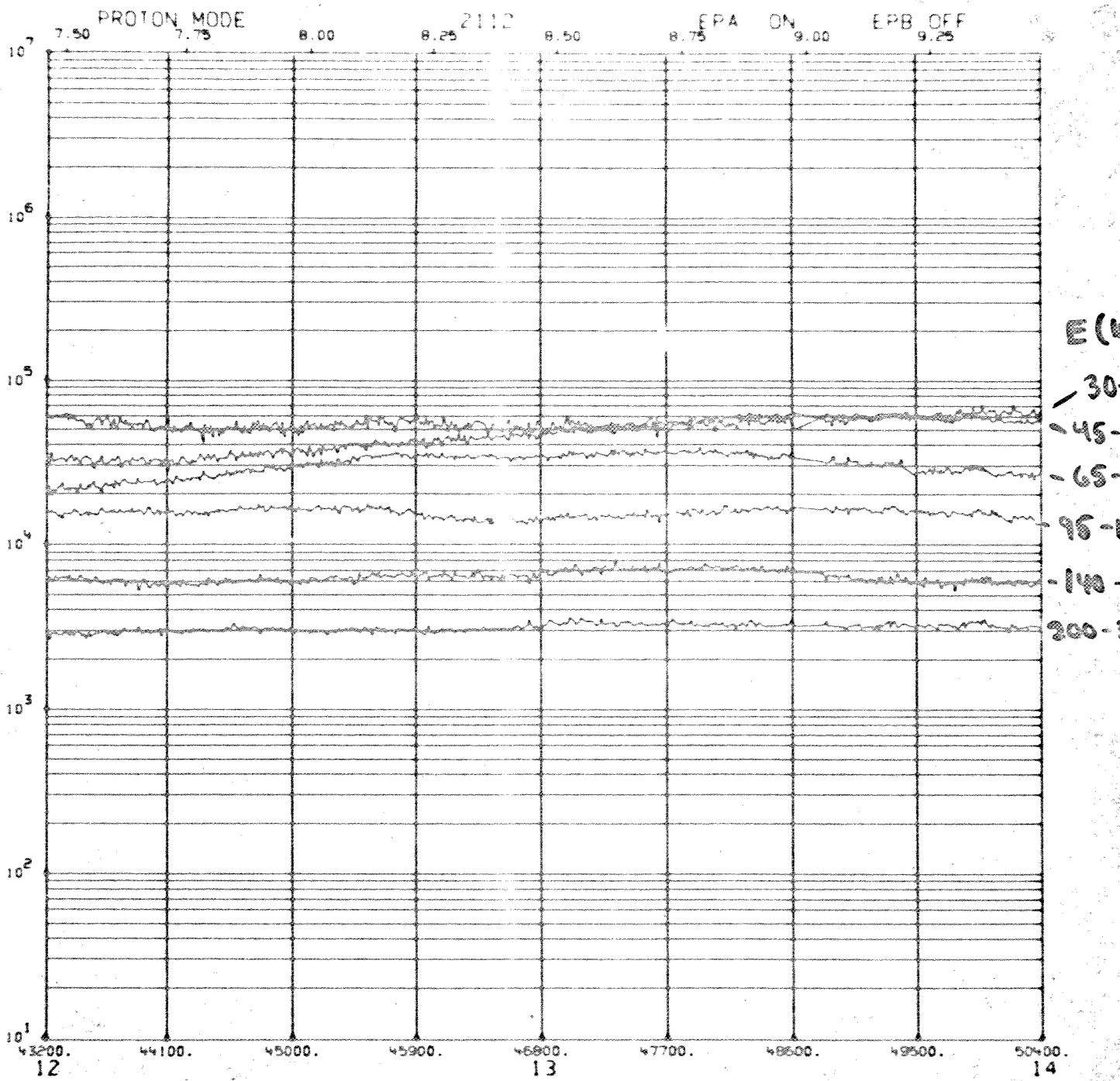
E-W N S ANISOTROPY

R* 6.6 LAT* -1.9 LONG* -68.1

Converted FLUXES

File 1
S/C 1976-059
1200-1400 UT
79/03/31

Electrons ($\text{cm}^{-2} \cdot \text{s}^{-1} \cdot \text{sr}^{-1} \cdot \text{keV}^{-1}$)



R703525

79/03/31

LO-E DIFF
R= 6.6 LAT= -1.9 LONG= -68.1

79/03/31

FILE
R= 6.6 LAT= -1.9 LONG= -68.1

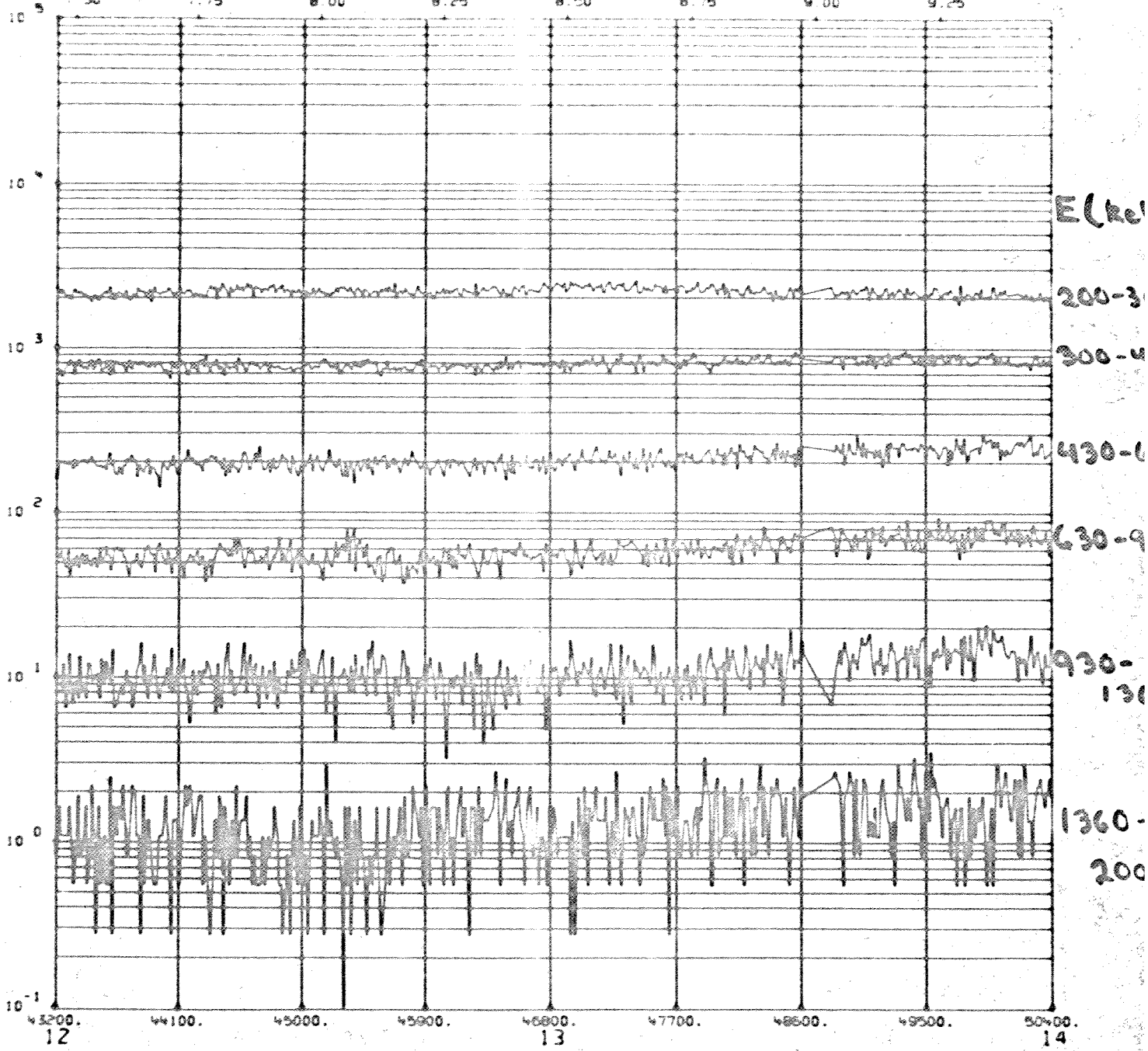
PROTON MODE

2112

EPA ON

EPB OFF

Electrons ($\text{cm}^2 \text{s}^{-1} \text{sr}^{-1} \text{keV}^{-1}$)



R703525

79/03/31

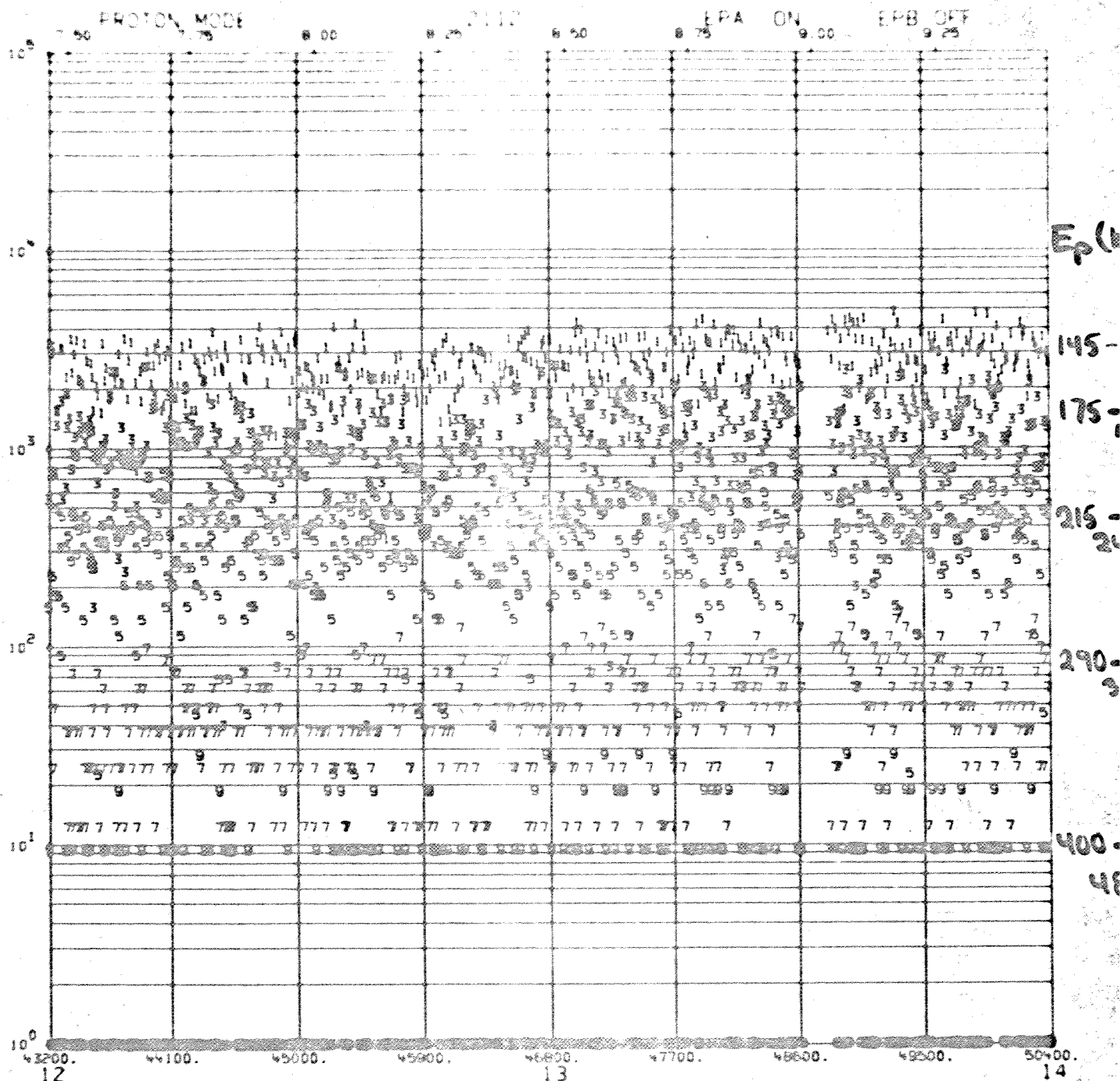
PROTON MODE

2112

EPA ON

EPB OFF

Protons (cm²-s-sr-keV)⁻¹

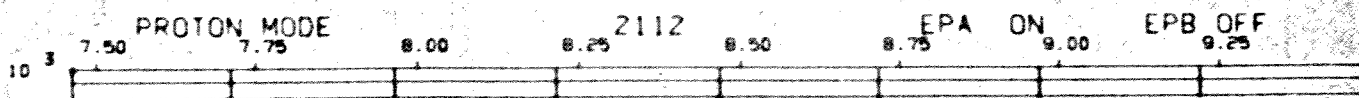


R703525

79/03/31

LO-P-A DIFF

H* 0.6 LA* -1.9 LONG* -68.1



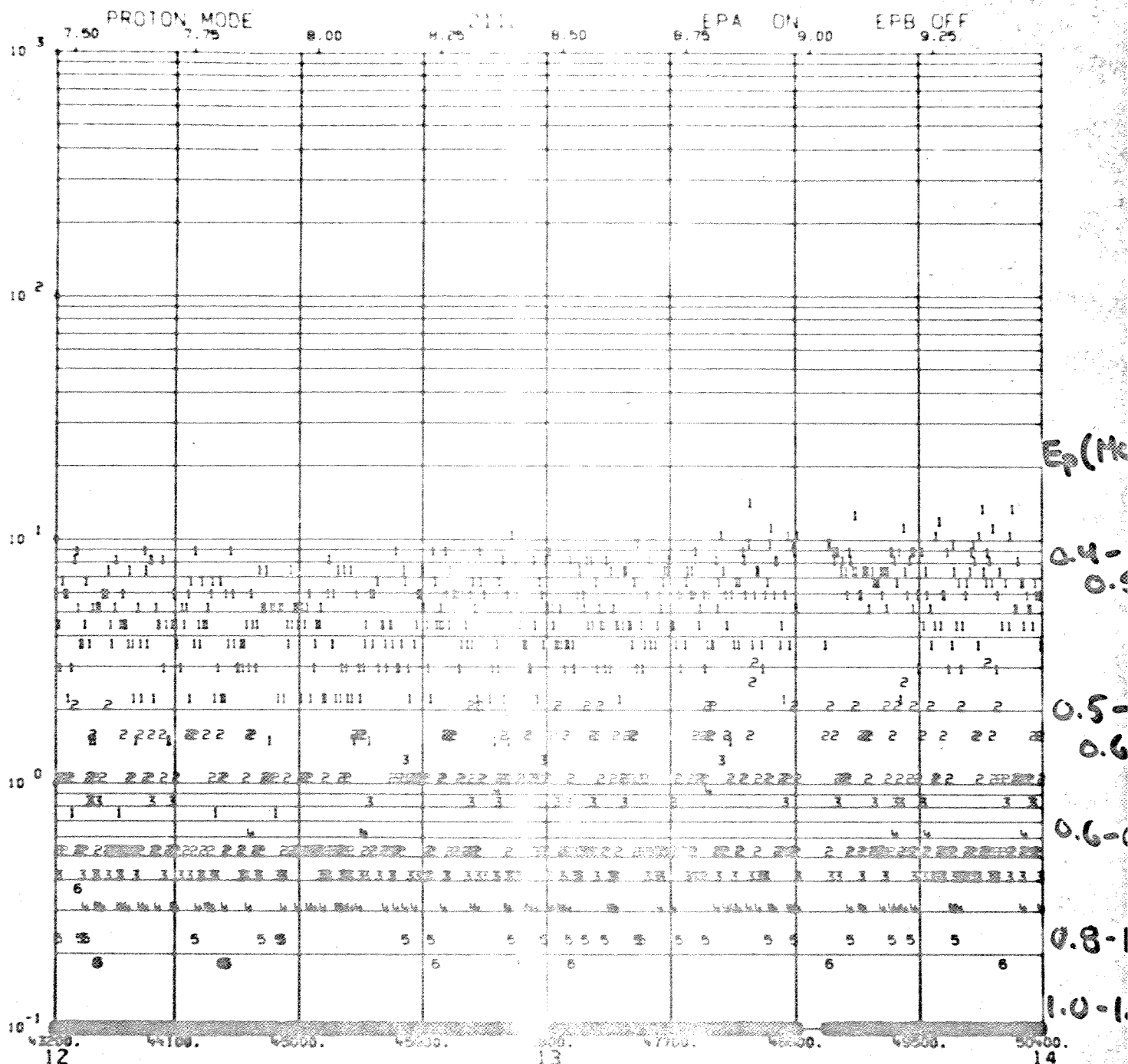
R703525

79-03-31

11.4 11.4

1.9 1.9 68.1

Protons (cm⁻²-s-sr-keV)⁻¹



R703525

79/03/31

HI-P-A

R= 6.6 LAT= -1.9 LONG= -68.1

PROTON MODE

2112

EPA ON

EPA OFF

7.50 7.75 8.00 8.25 8.50 8.75 9.00 9.25



+5000. +4000. +3000. +2000. +1000. +000. -1000. -2000. -3000. -4000. -5000.

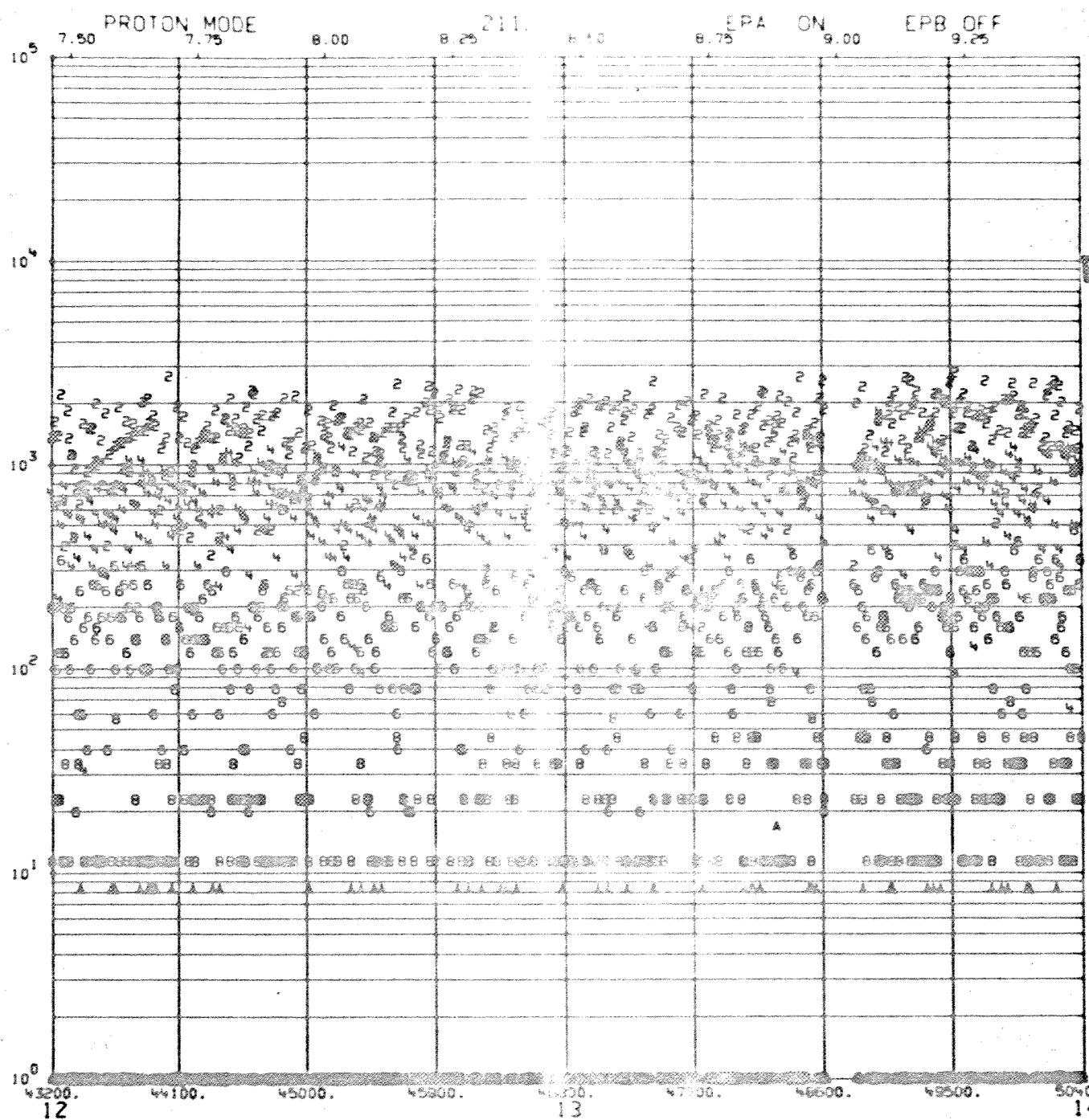
R703525

79/03/31

LO-P-B

R= 6.6 LAT* -1.9 LONG* -68.1

Protons (cm² s-sr-keV)⁻¹



Ep(ke)

160-17

190-2

245-29

340-40

480-56

R703525

79/03/31

LO-P-B DIFF

R= 6.6 LAT* -1.9 LONG* -68.1

PROTON MODE

EPA ON

EPA OFF

10 3 7.50 7.75 8.00 8.25 8.50 8.75 9.00 9.25

79-053A-01A

76-374-000

07/09/84

DATE NSDF COORDINATOR CONSULTED: _____

DATE SCIENTIST NOTIFIED: _____

SOURCE:

PI AND AFFILIATION:

mag. tape

SATELLITE NAME/NSDF NAME: 1976-059A, 1977-007A

EXPERIMENT NAME: _____

DATA SET FULL NAME: ELECTRON + PROTON RAW COUNT RATE

CONTACT: _____ ACQUISITION SCIENTIST: EJS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: ☐ A NEW DATA SET ☒ ADDITIONS ☐ REPLACEMENTS ☐ OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: D 63544 C 24067

REMARKS:

CDAw

DATA RECEIPT NOTIFICATION SENT? ☐

Paul Schneider

CDAW DATA SET ENTRY

Date 7/2/84Date Received 6/22/84 CDB 7 Sent By Sharon Trujillo (Programmer for D. Baker)Material Received 1 mag tape; 1-p. cover letter; 5-pp printout* NSSDC ID 1977-007
1976-059 ☐ New ☒ Additional ☐ Replacement

NSSDC Data Set Name _____

CDAW ID 307B & 559B ☒ New ☐ Additional ☐ ReplacementCDAW Data Set Name Energy Particle Detector

Time Coverage _____

Comments: CDAW 6 documentation attached
for 1976-059A-01C & 1977-007A-01C

Tapes to be Returned to: _____

DD Number _____ X Number _____

Initiated by Ellen SkinnerAdditional Information Supplied by HKH

- * I held a conversation for S. Trujillo to try to determine the content of the data. HKH followed up with R. Zwickel in D. Baker's absence on 6/28. What is contained here is the best guess.

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

DATE: 15 June 1984
IN REPLY REFER TO: ESS-8:84-805
MAIL STOP: D438
TELEPHONE: 505/667-3101

Dr. James I. Vette
Code 601
National Space Science Data Center
NASA/Goddard Space Flight Center
Greenbelt, MD 20771

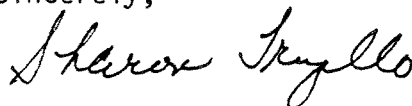
SUBJECT: CDAW-7

Dear Dr. Vette:

Enclosed are the data requested on a 9-track, 1600 BPI, 60-Bit word binary tape written on a CDC 7600 machine.

We have included a copy of a read routine and sample output.

Sincerely,



Sharon Trujillo

/st

Enc. a/s

Cy: CRM-4 (2)

79/04/24 3151 R703639 36059839. 1.13
 ERAD-GLONG-GLAT 6.63-133.37 .89 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 179.4 153.0 99.0 56.5 24.2 9.8
 RAHIE 144.8 84.4 45.1 20.4 6.7 1.3
 RALOP 9.2 5.2 5.3 2.4 1.5 .7
 .2 .1 0.0 .1
 RAHIP 1.1 .5 .3 .1 .1 .0
 .0 .1 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 40.2 -5.2 -.2 -.2 -2.0 -2.0
 79/04/24 3151 R703639 36070079. 1.13
 ERAD-GLONG-GLAT 6.63-133.37 .88 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 178.4 153.4 98.7 57.1 23.9 9.5
 RAHIE 141.0 85.4 44.2 19.7 6.6 1.2
 RALOP 8.5 6.0 5.3 3.0 1.7 .4
 .5 .2 .1 0.0
 RAHIP 1.2 .5 .3 .2 .2 .1
 0.0 0.0 0.0 0.0 .0 0.0
 0.0 .0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 42.4 -1.9 -.2 -.2 .0 .1
 79/04/24 3151 R703639 36080319. 1.13
 ERAD-GLONG-GLAT 6.63-133.37 .88 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 175.3 154.0 97.6 56.4 25.0 9.9
 RAHIE 142.1 83.8 45.6 19.4 7.1 1.3
 RALOP 9.2 6.3 5.4 2.8 1.6 .7
 .5 .1 .0 .0
 RAHIP .8 .3 .5 .1 .1 0.0
 0.0 .1 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 38.6 -.7 -.2 -.2 .1 -.1
 79/04/24 3151 R703639 36090559. 1.13
 ERAD-GLONG-GLAT 6.63-133.37 .88 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 179.6 151.1 98.4 57.2 24.5 9.7
 RAHIE 139.7 83.7 43.3 20.1 7.3 1.4
 RALOP 9.0 4.8 4.8 3.0 1.6 .7
 .2 .1 .0 0.0
 RAHIP 1.1 .3 .4 .1 .1 .1
 .1 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 35.4 8.8 -.2 -.2 .1 .0
 79/04/24 3151 R703639 36100798. 1.14
 ERAD-GLONG-GLAT 6.63-133.37 .88 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 179.7 151.5 98.1 57.6 24.0 9.9
 RAHIE 139.1 82.7 43.6 19.8 6.6 1.4
 RALOP 9.4 5.5 4.8 2.4 1.7 .7
 .3 .1 .1 0.0
 RAHIP .9 .6 .3 .1 .1 .1
 0.0 .1 0.0 0.0 0.0 0.0
 0.0 0.0 .0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 39.5 -4.2 -.2 -.2 .1 -.1
 79/04/24 3151 R703639 36111038. 1.14
 ERAD-GLONG-GLAT 6.63-133.37 .86 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 177.2 150.2 97.1 56.7 24.5 9.7
 RAHIE 140.6 81.4 44.3 20.1 6.6 1.3
 RALOP 8.6 5.4 4.9 2.6 1.8 .9
 .3 .1 .1 0.0
 RAHIP .8 .6 .4 .1 .1 .1
 .1 .1 .0 0.0 0.0 0.0
 0.0 0.0 0.0

80/05/11 2112 PO3787 15667584. 23.70
 ERAD-GLONG-GLAT 6.63 -69.78 1.52 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 46.4 37.4 28.0 18.8 9.6 3.9
 RAHIE 26.4 11.6 4.3 1.1 .2 .1
 RALOP 1.6 .9 .5 .4 .0 .0
 .1 0.0 0.0 0.0
 RAHIP 0.0 0.0 0.0 .0 0.0 0.0
 0.0 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 53.0 -1.6 .8 -.7 -2.0 -2.0
 80/05/11 7484 PO3787 15675580. 19.41
 ERAD-GLONG-GLAT 6.60-134.18 -1.07 EPMODE-A-B-LEMODE PROTON ON OFF FAST
 RALOE 48.3 0.0 0.0 0.0 0.0 0.0
 RAHIE 63.2 28.9 11.3 3.6 1.0 .2
 RALOP 21.2 12.7 8.8 3.2 1.8 .8
 .4 .1 .1 0.0
 RAHIP .1 .1 0.0 0.0 0.0 0.0
 0.0 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 21.3 7.1 .4 -.6 -2.0 -2.0
 80/05/11 2112 PO3787 15677824. 23.70
 ERAD-GLONG-GLAT 6.63 -69.78 1.52 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 47.3 37.9 27.3 18.4 9.8 3.7
 RAHIE 26.4 10.5 3.7 1.2 .5 .0
 RALOP 1.5 .9 .6 .4 .2 .1
 .1 .1 0.0 0.0
 RAHIP .1 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 57.9 -.3 .8 -.8 .3 .2
 80/05/11 7484 PO3787 15685820. 19.41
 ERAD-GLONG-GLAT 6.60-134.18 -1.07 EPMODE-A-B-LEMODE PROTON ON OFF FAST
 RALOE 48.6 0.0 0.0 0.0 0.0 0.0
 RAHIE 64.1 28.1 11.8 4.3 1.2 .1
 RALOP 19.9 11.4 9.7 3.8 1.7 .8
 .3 .1 .0 0.0
 RAHIP .1 0.0 0.0 0.0 0.0 .0
 .0 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 17.0 4.2 .4 -.6 .1 .0
 80/05/11 7484 PO3787 15716540. 19.42
 ERAD-GLONG-GLAT 6.60-134.18 -1.07 EPMODE-A-B-LEMODE PROTON ON OFF FAST
 RALOE 48.2 0.0 0.0 0.0 0.0 0.0
 RAHIE 63.2 28.7 11.5 3.3 1.2 .2
 RALOP 19.2 11.6 8.4 3.6 1.8 .9
 .3 .1 0.0 0.0
 RAHIP .2 .1 0.0 0.0 0.0 0.0
 0.0 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0
 THETAC- PHIC -CC2-CC4-PAEW-PANS
 18.2 -13.1 .4 -.6 -2.0 -2.0
 80/05/11 2112 PO3787 15718783. 23.71
 ERAD-GLONG-GLAT 6.63 -69.78 1.52 EPMODE-A-B-LEMODE PROTON ON OFF NORMAL
 RALOE 46.3 37.0 27.0 18.4 9.6 3.9
 RAHIE 27.3 12.1 3.8 1.6 .4 0.0
 RALOP 1.8 .9 .7 .3 .2 .1
 0.0 0.0 0.0 0.0
 RAHIP 0.0 0.0 .0 0.0 0.0 0.0
 0.0 0.0 0.0 0.0 0.0 0.0
 0.0 0.0 0.0

```

PROGRAM T4READ(INPUT,OUTPUT,TAPE4)
DIMENSION Z(59),IZ(59)
EQUIVALENCE (Z,IZ)
IPRINT=0
10 READ(4)(Z(I),I=1,59)
IF(EOF(4))20,30
20 IEOF=IEOF+1
IF(IEOF.LT.2)GO TO 10
GO TO 999
30 IEOF=0
IPRINT=IPRINT+1
PRINT 900,(IZ(I),I=50,52),Z(1),Z(49),(Z(I),I=53,58),IZ(59)
900 FORMAT(A10,1X,A4,1X,A8,1X,F10.0,F7.2,/,
+      * ERAD-GLONG-GLAT *3F7.2,* EPMODE-A-B-LEMODE *,
+      A6,2(1X,A3),1X,A6)
PRINT 901,(Z(I),I=5,10)
901 FORMAT(* RALOE *6(1X,F5.1))
PRINT 902,(Z(I),I=11,16)
902 FORMAT(* RAHIE *6(1X,F5.1))
PRINT 903,(Z(I),I=17,26)
903 FORMAT(* RALOP *,6(1X,F5.1),/,7X,4(1X,F5.1))
PRINT 904,(Z(I),I=27,41)
904 FORMAT(* RAHIP *,6(1X,F5.1),/,7X,6(1X,F5.1),/,7X,4(1X,F5.1))
PRINT 905,(Z(I),I=43,48)
905 FORMAT(* THETAC- PHIC -CC2-CC4-PAEW-PANS *,
+      /,2(1X,F6.1),4(1X,F4.1))
IF(IPRINT.LT.10)GO TO 10
999 STOP
END

```

Ron Zwickl
(505) 667-3897
FTS 843-3897

6/21 12:47 no answer

6/20/84

Will be back from travel on Monday.

D. Baker's data.

Could be like CDAW 6 ISEE 3 Solar Wind Plasmas (I301)
Zwickl

1977-007 } ^{or} Energetic Particle Detector S07B , D. Baker
1977-059 } S59B

CDAW 7

6/28/84

HKH

Zwischl says that this is supposed to be from the
"Energetic Particle Exp. on synchronous S/C 3151",
but he (Zwischl) doesn't recognize the number[↑].

It should be "count rates" and is presumed to be identical
in format to what Baker sent to CDAW 6, and that previous
documentation should apply. Thus it ~~is~~ should be
compared with doc. for

1977-007	}	S07 B
1977-059		S59 B

6

Please obtain that doc. + send me a copy, together with a
copy of the 3 data sheets sent with this tape.

Klot

CDAW DATA SET ENTRY

Date 7/2/84Date Received 6/22/84 CDB 7 Sent By Sharon Trujillo (Programmer for D. Baker)Material Received 1 mag tape; 1-p. cover letter; 5-pp printoutUNKNOWN 3rd s/c also present* NSSDC ID 1977-007
1976-059 — New ☒ Additional — ReplacementNSSDC Data Set Name only for 2nd s/cCDAW ID 307B & 559B ☒ New — Additional — ReplacementCDAW Data Set Name Energetic Particle Detector

Time Coverage _____

Comments: CDAW 6 documentation attachedfor 1976-059A-01C & 1977-007A-01C1979-053A-01A — new s/c; assumed -01A

Tapes to be Returned to: _____

DD Number _____ X Number _____

Initiated by Ellen SkinnerAdditional Information Supplied by HKH

Dan Baker: FTS 843-3101

- * I held a conversation for S. Trujillo to try to determine the content of the data. HKH followed up with R. Zwickl in D. Baker's absence on 6/28. What is contained here is the best guess.

79-053
From Marilyn Hui
7/20/84

FLUX CONVERSION FACTORS, LoE, 76-05
 ~ new one 79-053 . " " 77-0

HIE, 76-059
HIE, 77-007 *HIE Same for 79-053*

LoP, 76-059 LoP: 1140, 1390, 1030, 84
800, 580, 460, 46
LoP, 77-007 340, 280

2. } HiP, 76-069 { 30.6, 18.4, 17.2,
13.1, 9.2, 6.1
3. } HiP, 77-007 { 6.9, 1.5, 0.1

$$\begin{array}{l} \text{HiP} \\ 79-053 \end{array} \left\{ \begin{array}{l} 0.63, 0.21, 0. \\ 0.13, 0.089, 0. \\ \hline 0.050 \end{array} \right.$$

79-02 [0.050

} differenced count rates for electrons

for plotting

Flux conversion factors applied

} differenced count rates for protons.

for plotting

flux conversion factors applied

HiP flux conversion

70 CONTINUE

Table 1. CDAW-6 DATA SUBMISSION TO THE COORDINATED DATA BASE: TAPE FORMAT

Each record consists of 59 floating point (or integer, as noted) words.
They are:

Word	mnemonic	Meaning
Z(1)	TIMFF	Time of first frame; ~10-s sample start in msec UT
(2)	HH	Normalized local magnetic field H-comp
(3)	VV	Normalized local magnetic field V-comp
(4)	DD	Normalized local magnetic field D-comp
(5-10)	RALOE1-6	LoE (30-300 keV) electron spin-av. count/8ms
(11-16)	RAHIE1-6	HiE (200-2000 keV) electron spin-av. counts/8ms
(17-26)	RALOP1-10	LoP (145-560 keV) proton spin-av. counts/8ms
(27-42)	RAHIP1-16	HiP (400 keV-150 MeV) proton spin-av. counts/8ms
(43)	THETAC	Θ_B ; meridional tilt of local mag. field line
(44)	PHIC	ϕ_B ; azimuthal tilt of local mag. field line
(45)	C2	2nd. order (>30 keV) electron anisotropy amplit.
(46)	C4	4th order (>30 keV) electron anisotropy amplitude
(47)	PAEW	East-west proton (>145 keV) gradient anisotropy
(48)	PANS	North-south proton (>145 keV) gradient anisotropy
Z(49)	TLOCAL	S/C geographic local time
IZ(50)	KDATE	Date (YY/MM/DD): character data
IZ(51)	NBIRD	S/C I.D. (1976-059 = 2112; 1977-007 = 3151): char. Data 1979-053 = 7484
IZ(52)	IPSFIL	DATA FILE (Irrelevant to CDB)
Z(53)	ERAD	Radial distance (geocentric) of S/C
(54)	GLONG	Geographic Longitude of S/C
(55)	GLAT	Geographic Latitude of S/C
(56)	EPMODE	Instrument mode (Irrelevant to CSB)
(57)	EPA	Instrument mode (Irrelevant to CDB)
Z(58)	EPB	Instrument mode (Irrelevant to CDB)
IZ(59)	LEMODE	Instrument mode (Irrelevant to CDB)

GOES 2 & 3

MAGNETOMETER DATA

77-048A-04B SPMS-00348

78-062A-04A SPMS-00178

These data sets have been restored. There was originally one 9-track, 1600 BPI tape written in ASCII. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a 1000 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005700	DS005700	D046905	1 - 6	03/22/79 - 04/01/79

REQ. AGENT

LSM

REQ NUMBER

V0144

ACQ. AGENT

DMS

77-048A-04B

78-062A-04A

MAGNETOMETER DATA

This data set consists of 1 tape(s). The tape(s) is 9 track, 1600 bpi, ascii with 6 file(s) of data. The time span and D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-46905	C-21960	Files 1 + 2 3/22/79
		3 + 4 3/31/79
		5 + 6 4/1/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 18-062A-04A

DATE DATA RECEIVED: 12/10/81

DATE NSDF COORDINATOR CONSULTED: _____

DATE SCIENTIST NOTIFIED: _____

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, ETC.) <u>1 Mag Tape</u>
PI AND AFFILIATION:	

SATELLITE NAME/NSDF NAME: GUES 2, GUES 3

EXPERIMENT NAME: _____

DATA SET FULL NAME: Magnetometer Data

CONTACT: _____ ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: ☒ A NEW DATA SET ☐ ADDITIONS ☐ REPLACEMENTS ☐ OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DD 46705 C-21960

REMARKS:	<u>1600 Ascii Attrk 6 files</u> <u>Files 1+2 3/22/79</u> <u>3+4 3/31</u> <u>5 6 4/1</u> <u>CDAW</u>
----------	--

DATA RECEIPT NOTIFICATION SENT? ☐

Thomson

DATA TECHNICIAN

Date Dec. 8, 1981

NSDDC ID 77-048A-04

78-062A-04

CDAW DATA SET ENTRY

Date Rcvd : Dec 1 1981 CDB: db

Data Sent By : J.N. Barfield

Material Rcvd : 1 9-track 1600-bpm ^{ascii} magnetic tape (6 ft)
+ 8 pgs. documentation, verification data

Satellite/NSRF Name: GOES 2 & GOES 3

Data Set Name : Magnetometer Data

☒ New Data Set ☐ Additions ☐ Replacements

Comments _____

Time Coverage : 79/081/00/00/00 - 79/081/24/00/00 (for each s)
79/090/00/00/00 - 79/091/24/00/00

Tapes To be Returned to: _____

Completed By: Ellen Teague

SOUTHWEST RESEARCH INSTITUTE

POST OFFICE DRAWER 28510 · 6220 CULEBRA ROAD · SAN ANTONIO, TEXAS 78284 · (512) 684-5111

25 November 1981

Dr. James I. Vette, Code 601
(CDB-6 Workshop)
NASA Goddard Space Flight Center
Greenbelt, MD 20771

Dear Jim:

Enclosed is a mag tape containing the GOES 2 and 3 magnetometer data for CDAW 6. The tape is 9-track, 1600 bpi, H-P ASCII. There are 6 files on the tape, each file containing 24 hours of 1-minute data. The first record of each hour contains: month, day, hour. This is followed by 20 records each containing 3 triplets of H, -V, -D. This sequence is repeated for the remainder of the day. The data should be stored in your system as H, D, V. I have enclosed a sample listing for one hour of data, and sample data plots. The files are as follows:

- | | |
|-----------|----------------|
| 1. GOES 2 | March 22, 1979 |
| 2. GOES 3 | " " " |
| 3. GOES 2 | March 31, 1979 |
| 4. GOES 3 | " " " |
| 5. GOES 2 | April 1, 1979 |
| 6. GOES 3 | " " " |

Unfortunately, I will not be able to attend the workshop.
Have a good one!

Sincerely yours,


J. N. Barfield

JNB:r
Encs.



SAN ANTONIO, HOUSTON, TEXAS, AND WASHINGTON, D.C.

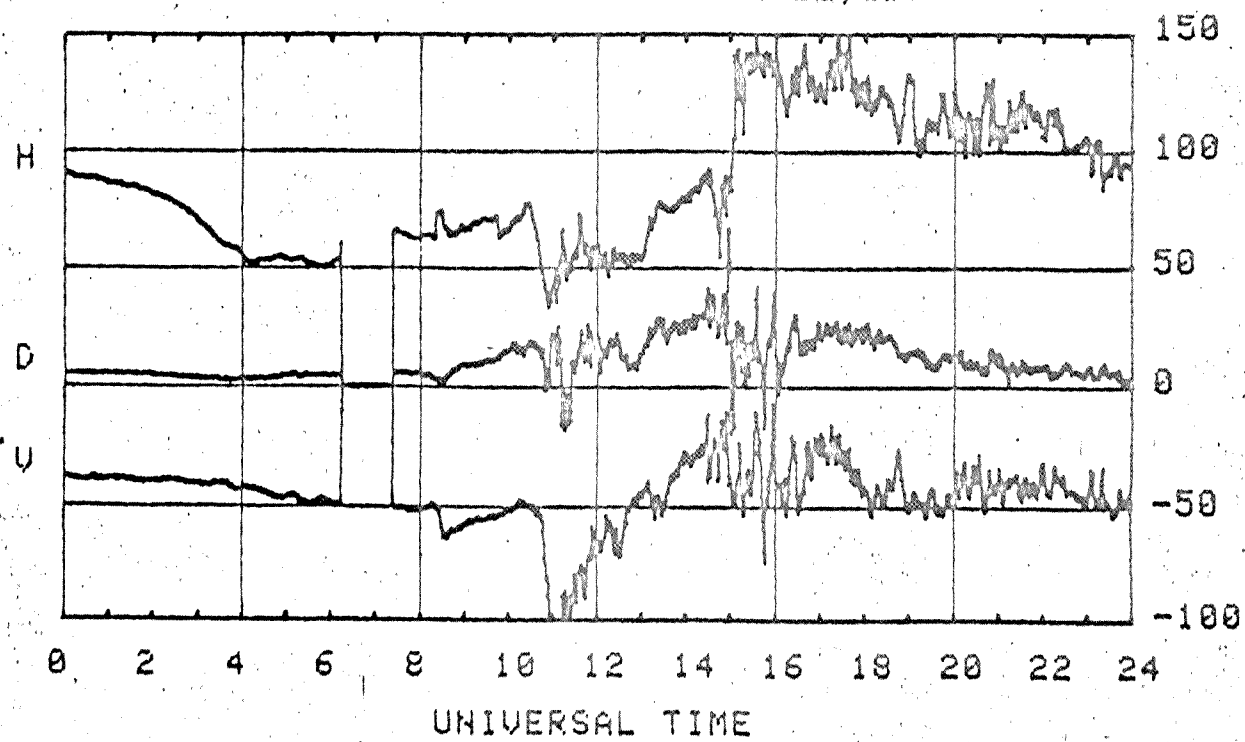
GOES 3 MARCH 21, 1977

	MO	DAY	HOURL	-D
	3	31	0	
89.6	26.9	-15.1	90.0	26.5
90.9	26.1	-15.0	91.4	25.9
91.4	25.7	-15.0	90.7	25.6
90.3	25.4	-15.0	90.4	25.8
90.9	25.4	-15.4	91.1	25.3
91.1	25.0	-15.3	91.8	25.2
91.4	24.8	-15.2	91.2	25.0
90.8	25.2	-15.3	90.3	25.0
89.9	24.1	-16.1	89.2	23.6
89.5	23.0	-16.3	92.0	23.6
90.3	22.0	-15.5	90.7	22.7
88.7	21.5	-15.4	90.9	22.9
90.3	23.1	-15.6	90.4	22.9
89.3	21.4	-15.3	94.9	24.8
91.3	21.7	-15.4	94.4	23.7
93.1	22.7	-16.0	94.3	22.7
94.3	21.9	-16.2	95.1	22.6
95.5	22.0	-16.0	96.1	22.0
95.0	21.1	-16.5	96.1	23.6
95.5	22.6	-16.5	96.0	24.7
				-14.9
				-14.9
				-15.0
				-14.9
				-15.3
				-15.6
				-15.2
				-15.0
				-15.5
				-15.9
				-16.1
				-15.2
				-15.3
				-16.1
				-16.3
				-16.0
				-16.3
				-16.9
				-16.2
				-16.7
				90.5
				91.7
				90.5
				90.5
				91.0
				92.0
				91.3
				90.2
				89.2
				93.1
				89.9
				92.5
				91.9
				92.1
				94.1
				95.6
				96.1
				95.2
				95.6
				26.3
				-15.0
				-14.8
				-15.0
				-15.0
				-15.1
				-15.5
				-15.4
				-15.4
				-15.3
				-15.7
				-15.9
				-15.9
				-15.8
				-15.7
				-15.8
				-16.1
				-16.5
				-16.9
				-16.6
				-16.3

GEOPHYSICAL FLUX IN GREENWICH

GOES 2

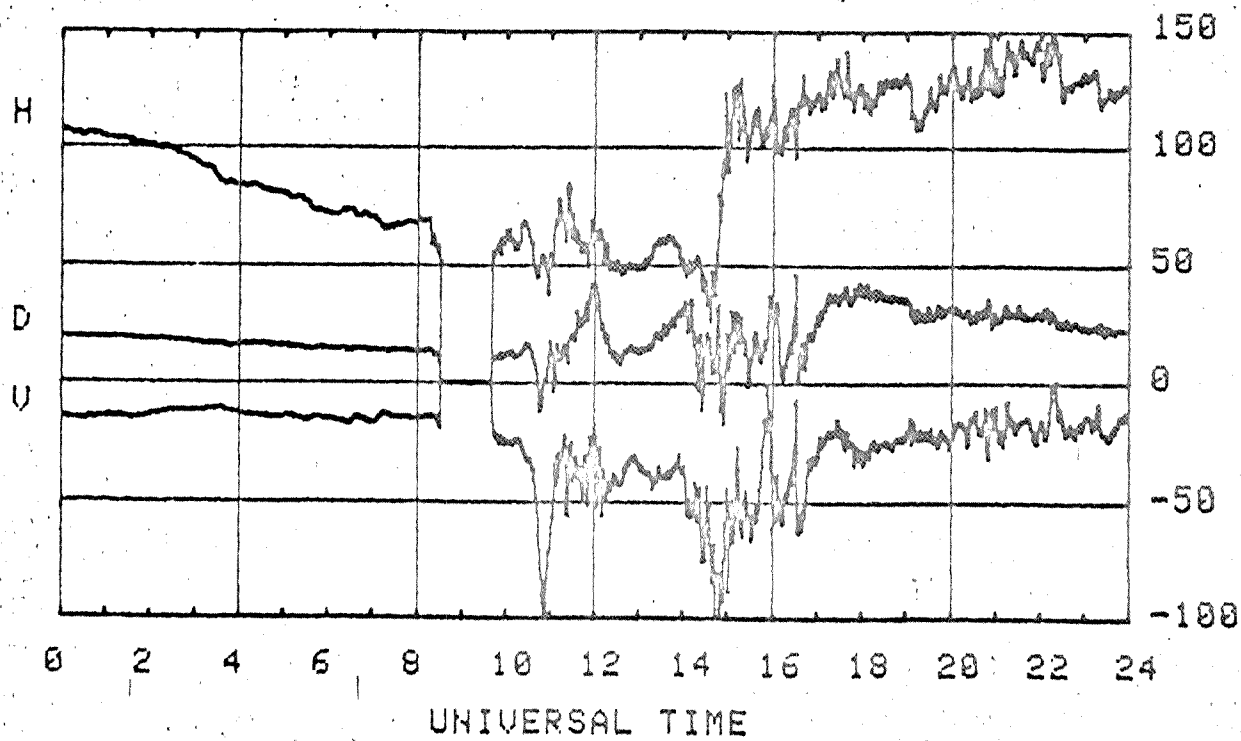
MAR 22, 1979



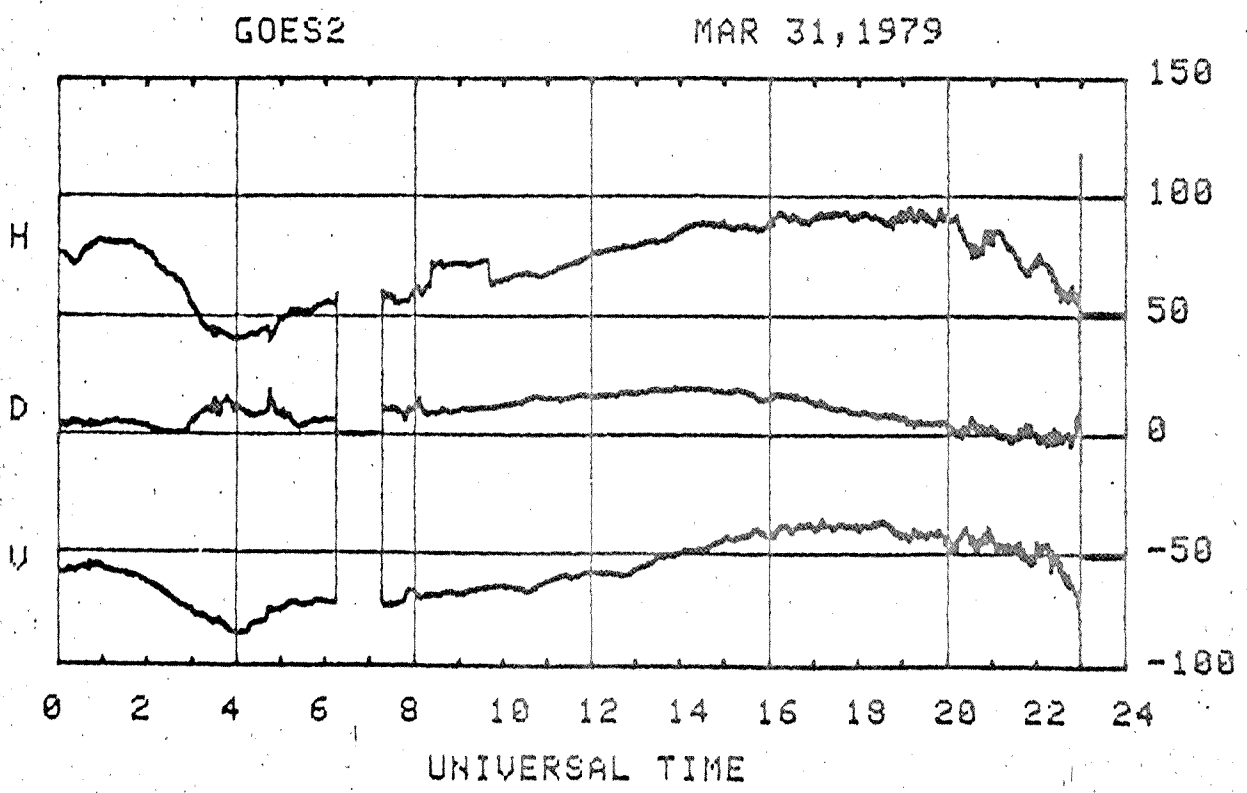
MAGNETIC FLUX IN GRAMS

GOES 3

MAR 22, 1979



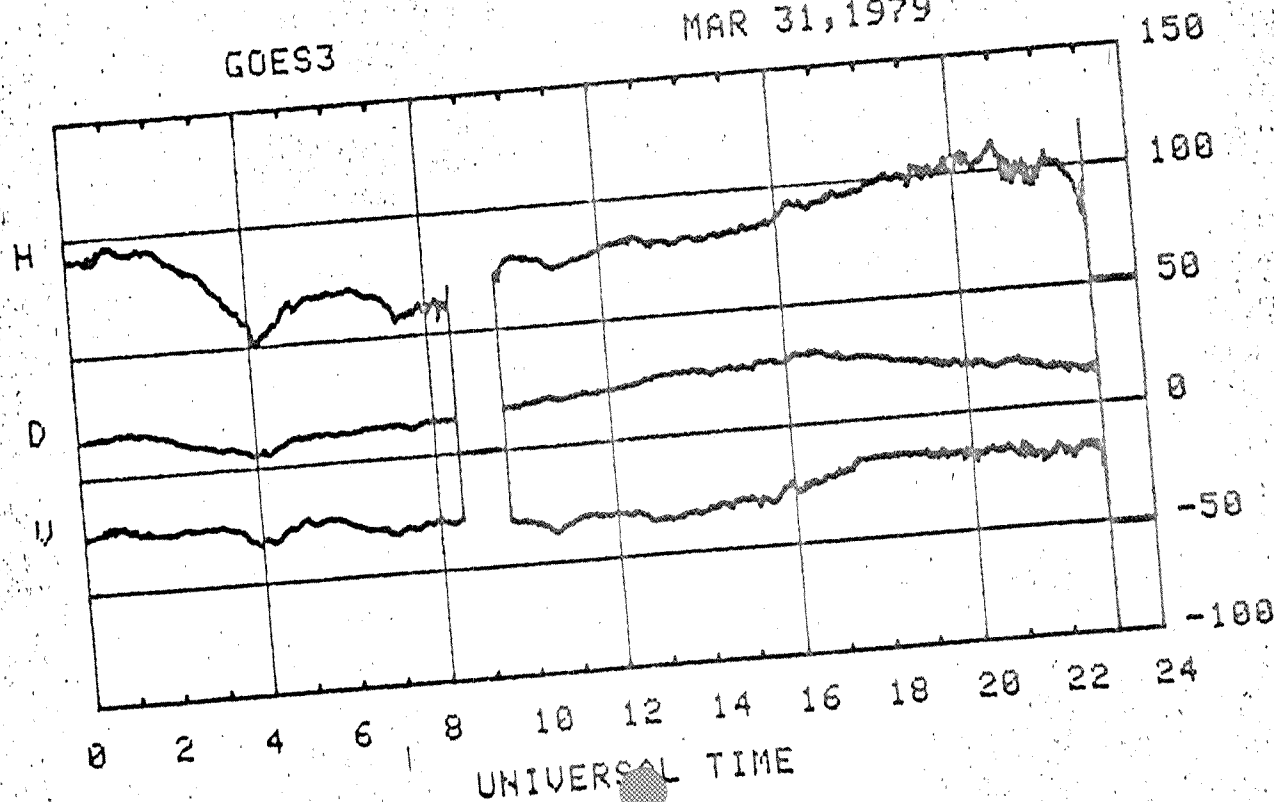
GOES2
MAR 31, 1979
H
D
U
UNIVERSAL TIME



MAGNETIC FLUX IN GAMMAS

GOES3

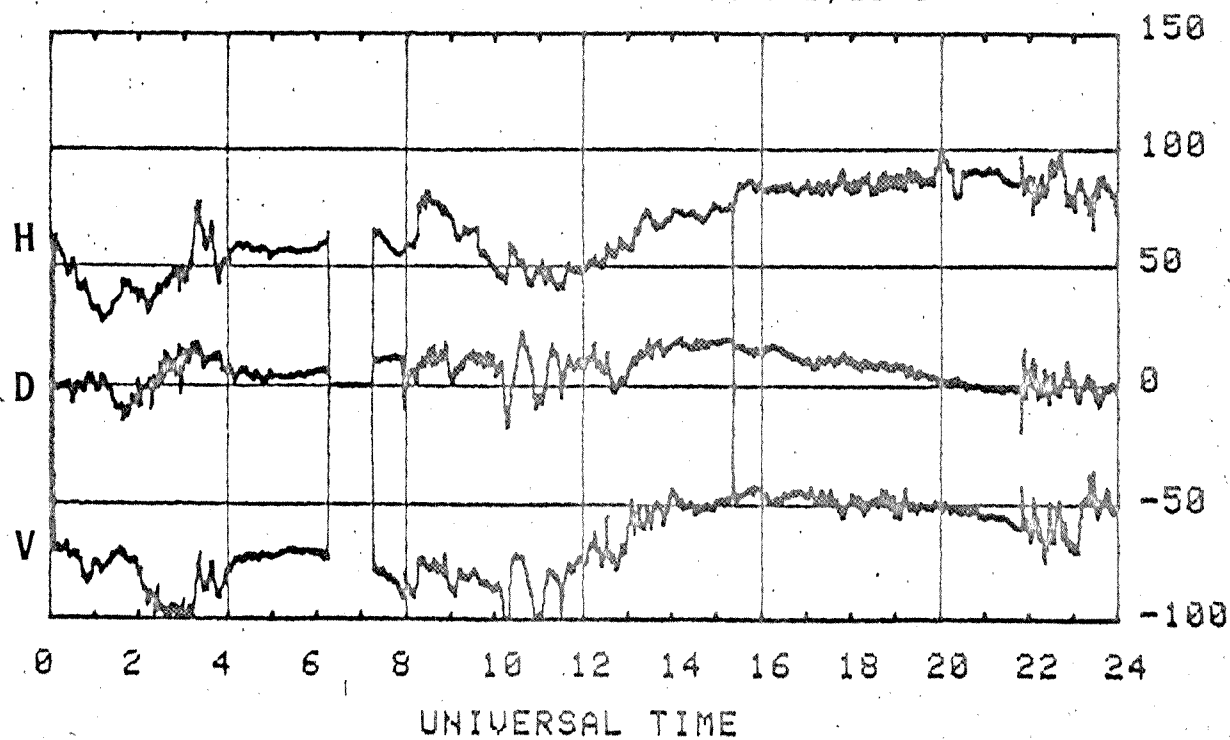
MAR 31, 1979



MAGNETIC FLUX IN GEOPOLARS

GOES2

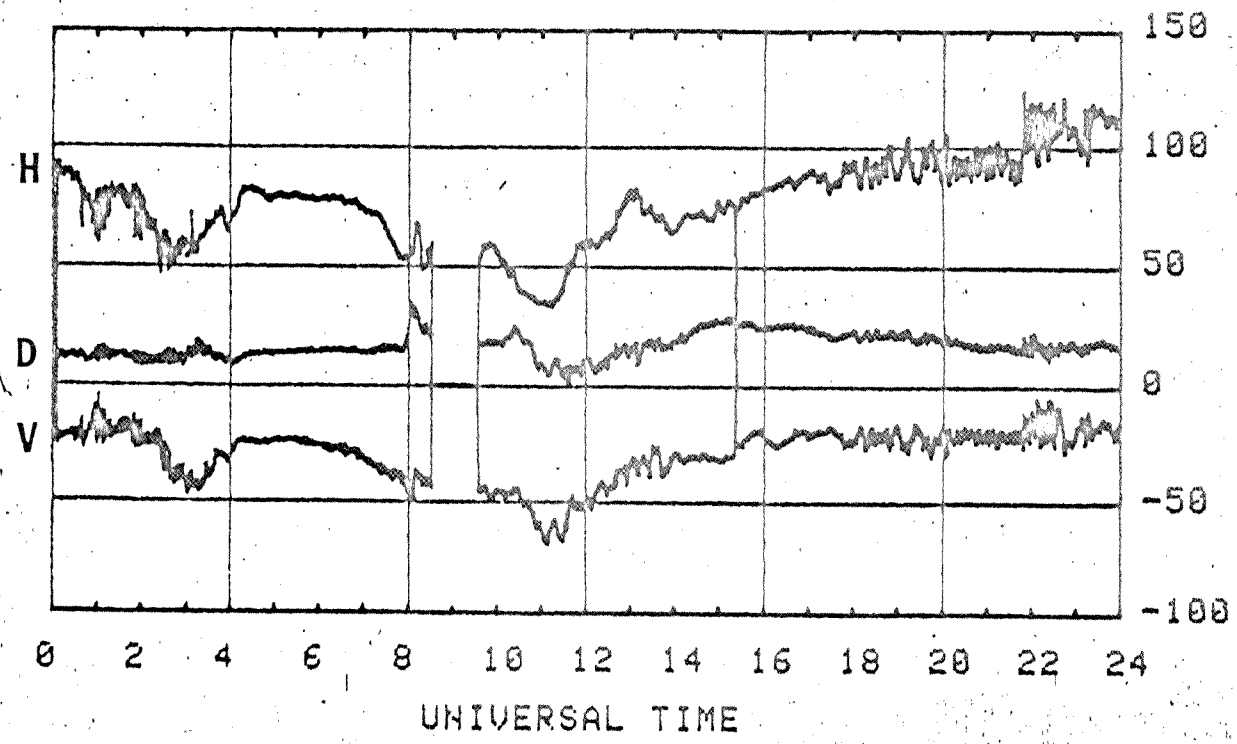
APR 1, 1979



MAGNETIC FLUX IN GEARS

GOES 3

APR 1, 1979



TIROS-N

SPACE ENV. MONITOR

78-096A-04A SPIO-00097

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in ASCII. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005845	DS005845	D047010	1 - 2	03/22/79 - 04/01/79

REQ. AGENT

LSM

REQ NUMBER

V0144

ACQ. AGENT

DMS

78-096A-04A

TIROS N

SPACE ENV. MONITOR

This data set consists of 1 tape(s). The tape(s) is 9 track, 1600 bpi, ASCII with 2 file(s) of data. The time span and D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-47020	C-21974	3/22/79, 3/31/79, 4/1/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 78-096A-04A DATE DATA RECEIVED: 12/15/81
 DATE NSDF COORDINATOR CONSULTED: _____
 DATE SCIENTIST NOTIFIED: _____

SOURCE:	MATERIAL RECEIVED: (NUMBER OF SHEETS OF HARDCOPY, NUMBER 100' REELS MICROFILM, NUMBER OF MAGNETIC TAPES, ETC.) <u>1 Mag Tape</u>
PI AND AFFILIATION:	

SATELLITE NAME/NSDF NAME: TIKOS N
 EXPERIMENT NAME: _____
 DATA SET FULL NAME: Space Env. Monitor
 CONTACT: _____ ACQUISITION SCIENTIST: DMS
 FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD
 THESE ARE: ☒ A NEW DATA SET ☐ ADDITIONS ☐ REPLACEMENTS ☐ OTHER (EXPLAIN BELOW)
 ACCESSION UNIT NUMBERS: DD 47010 C-21174

REMARKS:

CDAW

1600 Ascii 9trk 2 files
3/22
3/31
4/1

DATA RECEIPT NOTIFICATION SENT? ☐ Sinda Moran
 DATA TECHNICIAN

Date Dec 10

NSSDC ID 78-096A-04A

CDAW DATA SET ENTRY

Date Rcvd : Dec 9 1981 CDB : 06

Data Sent By : Herb Kroehl
1600, ascii 9 track 2 files

Material Rcvd : Letter, documentation and sample listing.

Satellite/NSRF Name : TiROS-N

Data Set Name : Space Environment Monitor

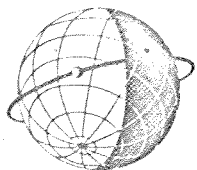
☐ New Data Set ☐ Additions ☐ Replacements

Comments

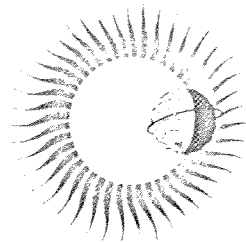
Time Coverage : Mar 22 06-20^h Mar 31 12^h - April 1 6^h

Tapes To be Returned to :

Completed By : M. Teague



WORLD DATA CENTER A for SOLAR-TERRESTRIAL PHYSICS



Environmental Data and Information Service

SOLAR AND INTERPLANETARY PHENOMENA;
IONOSPHERIC PHENOMENA;
FLARE-ASSOCIATED EVENTS;
GEOMAGNETIC VARIATIONS;
MAGNETOSPHERIC AND
INTERPLANETARY MAGNETIC PHENOMENA;
AURORA; COSMIC RAYS; AIRGLOW

NOAA, D63, 325 Broadway
Boulder, Colorado 80303 U.S.A.

TELEPHONE: (303) 497-6324
CABLE ADDRESS: SOLTERWARN
IN REPLY REFER TO:

Dr. D. Sawyer
National Space Science Data Center
NASA/Goddard Code 601
Greenbelt, MD 20771

HK/D63
November 25, 1981

Dear Don:

I'm sending under a separate cover the TIROS-N data for CDAW-6.

As I mentioned, the Space Environment Monitor on TIRON-N, NOAA-6 and NOAA-7 consists of three instruments; the Total Energy Detector, the Medium Energy Proton and Electron Detector and the High Energy Proton and Alpha Detector. The TED is a sweeping electrostatic analyzer recording low energy electrons and protons from 0.3 to 20 keV. Data from the 4 instruments at local zenith and 30° off zenith for protons and electrons are integrated to determine the precipitated power flux in ergs/cm²·sec. every two seconds. We are sending you the ephemeris data, the power flux when it exceeds 0.1 ergs/cm²·sec. and the characteristic energy channel. See the enclosed sheets for a format description.

The MEPED consists of two telescopes measuring protons and electrons at the local zenith and 90° off zenith in the energy ranges of >30 keV, >100 keV and >300 keV. We are sending you the electron data along with ephemeris data. See the enclosed sheets for a detailed format description.

If you have additional questions, please feel free to contact me or Ms. Bonnie Hausman (FTS 320-6323).

Sincerely,

Herbert W. Kroehl
Physicist

Turn Data

✓

3/22/79 06-20 UT
3/31/79 12-24 UT
4/1/79 00-06 UT

Tape is 1600 lpi, 9 track,
Ascii
140 Characters / record
36 Records / block

File #1 - Merged Data

1xFormat(2X, I2, 1X, I4, 3(1X, I3),
2(2X, F5.1), 3X, F5.1, 2X, F6.1,
5X, F5.2, 5X, F5.2, 2X,
F6.2, 1X, F6.2, 7X, 6(I6, 1X),
I5)

→ dummy variable to fill
out record

3xFormat(93X, 6(I6, 1X), I5)
→ dummy
variable

of lines = 60532
of blocks = 1682

File #2 Test Data

Format(2X, I2, 1X, I4, 3(1X, I3),
17X, F5.1, 13X, F5.2, 4X,
3(F6.2, 2X), F6.2, 4(2X, F5.1), I5)

of lines - 2892
of blocks = 81

				GEOG	GEOM	GEOMAG	GEOMAG	MAGNETIC	TOT 0	TOT 30	TOT 0	TOT 30				
YR	MODA	HR	MIN	SEC	LAT	LONG	LAT	LONG	LOC	TIME	FLUX	FLUX	FLUX	FLUX	DEM	
81	227	1	56	37	-52.1	77.6	-61.8	126.8	5.47		.12	.19	.24	.18	1.0	1.0
81	227	1	56	45	-52.6	77.4	-62.2	126.2	5.43		.26	.24	.19	.78	1.0	1.0
81	227	1	56	53	-53.0	77.2	-62.5	125.5	5.39		.32	.23	.37	.45	1.0	1.0
81	227	1	57	1	-53.5	77.0	-62.8	124.9	5.35		.27	.70	.60	.50	1.0	1.0
81	227	1	57	9	-53.9	76.9	-63.2	124.3	5.31		.31	.47	.45	.44	1.0	3.0
81	227	1	57	17	-54.3	76.7	-63.5	123.6	5.27		.32	.45	.51	1.33	4.0	4.0
81	227	1	57	25	-54.8	76.5	-63.9	122.9	5.22		1.75	3.21	4.56	8.11	4.0	9.0
81	227	1	57	33	-55.2	76.3	-64.2	122.2	5.18		7.35	0.00	8.99	8.57	10.0	9.0
81	227	1	57	41	-55.6	76.1	-64.5	121.5	5.14		8.16	8.54	7.86	2.85	10.0	10.0
81	227	1	57	49	-56.1	75.9	-64.8	120.8	5.09		4.94	5.41	2.11	1.72	8.0	9.0
81	227	1	57	57	-56.5	75.7	-65.2	120.0	5.04		5.00	6.21	7.72	8.22	10.0	10.0
81	227	1	58	5	-57.0	75.5	-65.5	119.3	4.99		7.37	5.44	2.96	3.51	9.0	9.0
81	227	1	58	13	-57.4	75.3	-65.8	118.5	4.94		3.37	3.41	1.30	1.40	6.0	6.0
81	227	1	58	21	-57.8	75.1	-66.1	117.7	4.89		1.27	.92	1.56	2.18	6.0	4.0
81	227	1	58	29	-58.3	74.9	-66.4	116.9	4.84		2.32	2.15	2.15	2.02	6.0	1.0
81	227	1	58	37	-58.7	74.6	-66.7	116.0	4.79		1.33	1.53	.82	.74	1.0	1.0
81	227	1	58	45	-59.2	74.4	-66.9	115.2	4.73		.66	1.00	1.07	.98	5.0	5.0
81	227	1	58	53	-59.6	74.2	-67.2	114.3	4.68		.89	.85	.88	.94	2.0	3.0
81	227	1	59	1	-60.1	73.9	-67.5	113.5	4.62		.86	.87	1.02	1.24	3.0	2.0
81	227	1	59	9	-60.5	73.7	-67.8	112.6	4.56		.94	1.07	1.12	1.19	2.0	3.0
81	227	1	59	17	-60.9	73.4	-68.1	111.6	4.50		.98	.65	.78	.81	4.0	1.0
81	227	1	59	25	-61.4	73.2	-68.4	110.7	4.45		.97	.71	.58	.81	4.0	3.0
81	227	1	59	33	-61.8	72.9	-68.7	109.8	4.38		.85	.84	.81	.79	3.0	3.0
81	227	1	59	41	-62.3	72.6	-68.9	108.8	4.32		.63	.56	.50	.51	1.0	2.0
81	227	1	59	49	-62.7	72.4	-69.2	107.8	4.26		.46	.57	.62	.55	3.0	2.0
81	227	1	59	57	-63.1	72.1	-69.4	106.7	4.19		.48	.55	.53	.44	3.0	2.0
81	227	2	0	5	-63.6	71.8	-69.7	105.7	4.12		.81	.68	.54	.55	5.0	4.0
81	227	2	0	13	-64.0	71.5	-69.9	104.6	4.06		.49	.34	.29	.24	1.0	1.0
81	227	2	0	21	-64.4	71.2	-70.1	103.5	3.98		.23	.31	.36	.34	2.0	2.0
81	227	2	0	29	-64.8	70.9	-70.4	102.3	3.91		.38	.34	.31	.37	2.0	2.0
81	227	2	0	37	-65.3	70.5	-70.6	101.2	3.83		.46	.47	.48	.46	1.0	2.0
81	227	2	0	45	-65.7	70.2	-70.8	100.0	3.76		.51	.29	.30	.27	2.0	1.0
81	227	2	0	53	-66.2	69.9	-71.0	98.8	3.68		.24	.22	.26	.25	1.0	1.0
81	227	2	1	1	-66.6	69.5	-71.2	97.6	3.60		.42	.34	.30	.27	2.0	1.0
81	227	2	1	9	-67.0	69.1	-71.4	96.4	3.52		.36	.41	.61	.62	3.0	1.0
81	227	2	1	17	-67.5	68.7	-71.6	95.2	3.44		.89	1.40	.06	.07	1.0	1.0
81	227	2	1	25	-67.9	68.3	-71.8	93.9	3.36		.06	.15	.78	.33	1.0	1.0
81	227	2	1	33	-68.3	67.9	-71.9	92.6	3.28		.44	.54	.50	.44	1.0	1.0
81	227	2	1	41	-68.8	67.5	-72.1	91.3	3.19		.29	.21	.28	.18	1.0	2.0
81	227	2	1	49	-69.2	67.1	-72.3	89.9	3.10		.18	.16	.18	.19	2.0	1.0
81	227	2	1	57	-69.6	66.6	-72.4	88.6	3.02		.15	.16	.15	.17	1.0	1.0
81	227	2	2	5	-70.0	66.2	-72.6	87.3	2.93		.21	.20	.16	.11	1.0	1.0
81	227	2	2	13	-70.5	65.7	-72.7	85.8	2.83		.09	.15	.13	.11	1.0	1.0
81	227	2	2	21	-70.9	65.2	-72.8	84.3	2.74		.14	.11	.10	.12	1.0	1.0
81	227	2	2	29	-71.3	64.6	-72.9	82.9	2.64		.18	.18	.32	.29	2.0	1.0
81	227	2	2	37	-71.7	64.1	-73.0	81.4	2.55		.85	.23	.64	.85	2.0	1.0
81	227	2	2	45	-72.2	63.5	-73.0	80.0	2.46		.11	.11	.11	.11	1.0	1.0

[illegible]

INPUT TAPE X393 ON MT3

DATA INPUT 09 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

FILE	1	RECORD	1	LENGTH	590BYTES														
(0)	175150303105	4000000001717	620013343257	675660603006	101314374276	171270276011	630115421726	661120345026											
(48)	024117264750	053060210364	172567434533	225073411725	462336461073	346317244725	665663020266	172277353353											
(96)	255335251725	641146314631	463217246034	631463146315	172340314631	463146321721	543146314631	463217176000											
(144)	000000000000	171446314631	463146321721	634631463146	314717214263	146314631463	172064631463	146314641720											
(192)	471463146314	631517175631	463146314632	171563146314	631463150000	000000000000	000017126314	631463146315											
(240)	000000000000	000000000000	000000000000	000017144631	463146314632	000000000000	000000000000	000000000000											
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(432)	274347454755	166460603476	472041161637	606213146506	173541456056	377777777777	777760563777	777777777777											
(480)	172271611456	212136200731	172023172321	000022212122	000000000000	622720232522	250000001722	650102527775											
(528)	761460513574	335737763503	605730536444	405605456062	576457560000	000000575600	000000000000	574646000000											
(576)	000000005657	625541540000	0000																

79103131

2112-1976-059

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES
	RECS.	INPUT	SIZE	PERM ZERO B SHORT UNDEF.	#RECS. TOTAL#
1	2578	2578	443	0 2 0 0	2 2

FILE	2	RECORD	1	LENGTH	590BYTES														
(0)	173665605000	000000001716	417011065244	551360600224	422562700450	606500140464	104375471725	737313571140											
(48)	416117254101	775114727715	172463403730	701405101723	755406503356	107317224462	256364555503	172052225676											
(96)	776442451723	410000000000	000017216514	631463146315	171774631463	146314641717	414631463146	314617154000											
(144)	000000000000	171263146314	631463151722	566314631463	146317215746	314631463146	172070000000	000000001717											
(192)	731463146314	631517166000	000000000000	171563146314	631463151715	400000000000	000017144631	463146314632											
(240)	000000000000	000000000000	000000000000	000017136314	631463146315	171263146314	631463150000	000000000000											
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(432)	732027653026	500160613602	477411303076	606121512152	772070366056	377777777777	777760563777	777777777777											
(480)	172446733747	451410040731	172024172021	000022212122	000000000000	622720232522	300000001722	647246315502											
(528)	524460513573	335406766013	172053315535	420660176062	576457560000	000000575600	000000000000	574646000000											
(576)	000000005657	625541540000	0000																

79104101

2112-1976-059

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES
	RECS.	INPUT	SIZE	PERM ZERO B SHORT UNDEF.	#RECS. TOTAL#
2	1389	1389	443	0 1 0 0	1 1

FILE	3	RECORD	1	LENGTH	590BYTES														
(0)	175150314552	000000001717	661246151336	722560603574	244531103371	606521550426	000654771726	666511611426											
(48)	341417265512	100350064047	172576661131	331136521725	436210263563	204517237651	510656736210	172252654562											
(96)	624777461726	412746314631	463217247663	146314631464	172362314631	463146321721	731463146314	631517176463											
(144)	146314631464	171363146314	631463151722	473146314631	463217216463	146314631464	172172314631	463146321720											
(192)	714631463146	314717177631	463146314632	171750000000	000000001714	631463146314	631500000000	000000000000											
(240)	171263146314	631463150000	000000000000	000017157146	314631463147	171263146314	631463150000	000000000000											
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000											
(432)	467263741363	746160611265	410541222754	606215734701	322126606056	377777777777	777760563777	777777777777											
(480)	172155053256	255572202731	172023172321	000023212521	000000000000	622720232522	250000001722	651425754661											
(528)	561760503634	074221147330	171764512132	303407576062	576457560000	000000575600	000000000000	574646000000											
(576)	000000005657	625541540000	0000																

79103131

3151-1977-007

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES
	RECS.	INPUT	SIZE	PERM ZERO B SHORT UNDEF.	#RECS. TOTAL#
3	3391	3391	443	0 4 0 0	4 4

FILE	4	RECORD	1	LENGTH	590BYTES
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(96)	650303501726	677431463146	314717255426	314631463146	172441200000	000000001722	733146314631	463217214546
(144)	314631463146	171744631463	146314631723	614631463146	314617234606	314631463146	172342714631	463146321722
(192)	433146314631	463217214546	314631463146	171763146314	631463151717	446314631463	146317154000	000000000000
(240)	171540000000	000000000000	000000000000	000017174000	000000000000	171446314631	463146321712	631463146314
(288)	631500000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172442622032	645113406053
(432)	106302434377	206360621317	574402121147	606224111605	554000166056	377777777777	777760563777	777777777777
(480)	172374226001	333531062731	172024172021	000023212521	000000000000	622720232522	300000001722	651436043352
(528)	463160503634	146632542400	606021174471	777702576062	576457560000	000000575600	000000000000	574646000000
(576)	000000005657	625541540000	0000					

79/04/01 3151-1977-007

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
				PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
4	1723	1723	443	0	3	0	0	3	4

FILE	5	RECORD	1	LENGTH	590BYTES				
(0)	175051161007	400000001717	437034247637	620460601317	137222034453	606331073020	537565531725	405725276302	
(48)	406417245302	156365602467	172365325344	003435221722	774724725143	567017217773	027654204300	172063455663	
(96)	606613341723	631463146314	631517226114	631463146315	172144631463	146314631717	663146314631	463217164000	
(144)	000000000000	000000000000	000000001717	631463146314	631517166000	000000000000	171646314631	463146321715	
(192)	546314631463	146317146314	631463146315	171263146314	631463151712	631463146314	631517126314	631463146315	
(240)	000000000000	000000000000	000000000000	000017136314	631463146315	000000000000	000000000000	000000000000	
(288)	000017136314	631463146315	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172567714170	333136061722	
(432)	520664515101	655017164024	245221510704	606106563024	662005466056	377777777777	777760563777	777777777777	
(480)	172056415724	421543202731	172023172222	000022212122	000000000000	622720232430	270000001722	647262444331	
(528)	130760513570	275212427575	172067360366	527573356062	576457560000	000000575600	000000000000	574646000000	
(576)	000000005657	625541540000	0000						

79/03/22 2112-1976-059

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
				PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
5	2642	2642	443	0	2	0	0	2	2

FILE	6	RECORD	1	LENGTH	590BYTES				
(0)	175051247030	000000001717	625070611703	233360603156	370744720345	606237270405	352052741725	556050605517	
(48)	102117254143	271074767527	172452620753	406121531723	552036037256	411417225342	527070476263	172146042127	
(96)	544226021725	407146314631	463217244551	463146314632	172341063146	314631461721	414631463146	314617174000	
(144)	000000000000	171263146314	631463151722	410000000000	000017215431	463146314632	172144000000	000000001720	
(192)	506314631463	146317177314	631463146315	171660000000	000000001715	631463146314	631517146314	631463146315	
(240)	171263146314	631463150000	000000000000	000017154000	000000000000	171263146314	631463150000	000000000000	
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172545545770	263336721723	
(432)	601100773075	146617154141	445024554753	606125100366	320111176056	377777777777	777760563777	777777777777	
(480)	172452055350	017577512731	172023172222	000023212521	000000000000	622720232430	270000001722	646220700505	
(528)	314060503626	144056461452	172047074121	255442436062	576457560000	000000575600	000000000000	574646000000	
(576)	000000005657	625541540000	0000						

28103122 3151 = 1977-007

79/03/22 3151-1977-007

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
				PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
6	3199	3199	443	0	1	0	0	1	1

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

START TIME 09/04/81 12:20:47 STOP TIME 09/04/81 12:24:43

INPUT TAPE DN1 ON TBI
DATA INPUT 09 NE 2 FL 2 3 1

D-63544

20=0
21=1
22=2
23=3
24=4
25=5
26=6
27=7
30=8
31=9
17=1

FILE	1	RECORD	1	LENGTH	590BYTES			
(0)	175142307257	600000001717	60673553743	370460602665	111063041147	171374320042	421332041727	546543744477
(48)	514117274520	111534266126	172661411356	126467611725	703760033072	274517246034	352212525320	172347223157
(96)	002352241727	441463146314	631517265214	631463146315	172555106314	631463151724	506631463146	314617226563
(144)	146314631454	172052314631	463146321723	445463146314	631517225131	463146314632	172252314631	463146321721
(192)	434631463146	314617206000	000000000000	171751463146	314631461715	631463146314	631517144531	463146314532
(240)	000000000000	000000001713	631463146314	631517204400	000000000000	171740000000	000000001716	514631463146
(288)	314617154000	000000000000	171446314631	463146321712	631463146314	631517126314	631463146315	171446314631
(336)	463146320000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(432)	260425035206	153260621714	755107342431	606211174034	014124636056	377777777777	777760563777	777777777777
(480)	172044004655	127333001731	172024172224	000023212521	000000000000	622720232623	310000001722	650064370357
(528)	722150503552	050637753244	171770525071	3141704216062	576457560000	000000575600	000000000000	574546000000
(576)	000000005657	625541540000	0000					

FILE	1	RECORD	2	LENGTH	590BYTES			
(0)	175142314257	600000001717	572061424012	527360602467	643173472435	171256532702	227047201727	544637312772
(48)	664017274525	754156263261	172661230241	672253161725	710767612654	726217245755	372571743115	172346053237
(96)	047215321727	432000000000	000017265255	146314631463	172554146314	631463151724	473146314631	463217226446
(144)	314631463147	172044631463	146314631723	416314631463	146317225746	314631463146	172252314631	463146321721
(192)	574631463146	314617206531	463146314532	171660000000	000000001716	714631463146	314717135453	146314631453
(240)	171363146314	631463150000	000000000000	000017204546	314631463146	171671463146	314631471716	431463146314
(288)	631517156314	631463146315	171554631463	146314631714	463146314631	463200000000	000000000000	000000000000
(336)	000000000000	000000000000	000000000000	000000000000	171263146314	631463150000	000000000000	000000000000
(384)	000000000000	171263146314	631463150000	000000000000	000000000000	000000000000	172552314115	007512146057
(432)	020061361542	572660620501	525527312475	606211574060	004230511710	646640151550	033217146647	201551640324
(480)	172044063270	656614602731	172024172224	000023212521	000000000000	622720232623	310000001722	650063462506
(528)	143560503552	051133011343	171770227564	705770046062	576457560000	000000575600	000000000000	574546000000
(576)	000000005657	625541540000	0000					

FILE	1	RECORD	3	LENGTH	590BYTES			
(0)	175142321257	500000001717	620046237003	453260603004	162403347374	171072005637	602364401727	536414205604
(48)	114617274537	505716271467	172660635511	343045121725	702667652343	431417246200	745567521145	172347455412
(96)	610167101727	434063146314	631517265170	314631463146	172555440000	000000001724	466314631463	146317227046
(144)	314631463147	172051463146	314631461723	447146314631	463217226214	631463146315	172253000000	000000001721
(192)	546314631463	146317206314	631463146315	171756314631	463146321716	746314631463	146417146314	631463146315
(240)	171263146314	631463151712	631463146314	631517176314	631463146315	171651463146	314631461716	746314631463
(288)	146417154000	000000000000	171446314631	463146320000	000000000000	000000000000	000000000000	171446314631
(336)	463146320000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(432)	263053170302	255560622151	356020416223	606207036545	301103331715	426475313160	573460641130	576226137453
(480)	172044141755	612507202731	172024172224	000023212521	000000000000	622720232623	310000001722	650063462506
(528)	143560503552	051133011343	171770227564	705770046062	576457560000	000000575600	000000000000	574546000000
(576)	000000005657	625541540000	0000					

FILE	1	RECORD	1257	LENGTH	590BYTES			
(0)	175160034571	600000001717	730536205564	012760611747	735532635760	171443466312	431352601727	507261434654
(48)	121217274353	357212016754	172657561330	526321371725	652354206633	445217247216	533134000562	172363064152
(96)	265004161727	507631463146	314617266324	000000000000	172567346314	631463151724	615463146314	631517235063
(144)	146314631463	172072314631	463146321723	564000000000	000017227763	146314631464	172263631463	146314641721
(192)	766314631463	146417214346	314631463146	171760000000	000000001715	631463146314	631517164000	000000000000
(240)	171263146314	631463150000	000000000000	000017204314	631463146315	171741463146	314631461715	714631463146
(288)	314717154631	463146314632	171546314631	463146320000	000000000000	000000000000	000000000000	171263146314
(336)	631463150000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(384)	000000000000	171263146314	631463150000	000000000000	000000000000	000000000000	172455146204	027370336054
(432)	262270516263	324460611146	265560132541	171357624307	622265501712	724072407240	723117145075	341217270241
(480)	172250672164	533745202731	172024172224	000023212521	000000000000	622720232623	310000001722	65006130605
(528)	251660503552	427000373747	606023126513	575267016052	576457560000	000000575600	000000000000	574546000000

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY				INPUT RETRIES	
	RECS.	INPJT	SIZE	PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
1	1257	1258	443	0	0	0	0	0	0

FILE	2	RECORD	1	LENGTH	590BYTES				
(0)	174773610600	000000001717	464241173661	476060601473	433637152436	171254436557	714030551725	563443661175	
(48)	151517254533	152362577404	172467750572	664117411724	454455423245	144717234622	354163313135	172175522522	
(96)	433644341724	545631463146	314717235540	000000000000	172242000000	000000001720	440000000000	000017156314	
(144)	631463146315	171540000000	000000001720	614631463146	314617177314	631463146315	171671463146	314631471716	
(192)	531463146314	531517126314	631463146315	171263146314	631463151713	631463146314	631500000000	000000000000	
(240)	000003000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(288)	000017126314	631463146315	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172564752534	111241755057	
(432)	160120531201	636517176613	565153532721	606020170717	277171606056	377777777777	777760563777	777777777777	
(480)	172457314543	330374033020	172025172121	000022212122	000000000000	006020232730	270000001722	650342425146	
(528)	555460513505	740675357461	172060521336	774677276052	576457550000	000000575600	000000000000	574646000000	
(576)	000000005557	625541540000	0000						

FILE	2	RECORD	2	LENGTH	590BYTES				
(0)	174773630274	000000001717	735021530512	171660612167	532251220227	606421750743	252175231725	602257111441	
(48)	247300000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(96)	000000001725	771231463146	314717247163	146314631464	172355146314	631463151721	714631463146	314717177631	
(144)	463146314632	171554631463	146314631724	523463146314	631517236254	631463146315	172343146314	631463151721	
(192)	631463146314	631517207000	000000000000	171761463146	314631461716	546314631463	146317154000	000000000000	
(240)	171353146314	631463150000	000000000000	000017154000	000000000000	171446314631	463146320000	000000000000	
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172452450367	614053051722	
(432)	707126476155	431217166053	316214322045	606027011457	112501316056	377777777777	777760563777	777777777777	
(480)	172446642370	012666523020	172025172121	000027243024	000000000000	006020232730	270000001722	646146475625	
(528)	017460503635	025252236521	605735475115	322511156052	576457550000	000000575600	000000000000	574646000000	
(576)	000000000000	454163540000	0000						

FILE	2	RECORD	3	LENGTH	590BYTES				
(0)	174773634600	000000001717	417773263437	065560601162	215041273561	171047550561	053061041725	572121367566	
(48)	652617254574	133763445510	172466535206	527040111724	446034212366	620217234721	450272577357	172173075054	
(96)	056732031724	646000000000	000017235206	314631463146	172172631463	146314641720	471463146314	631517174000	
(144)	000000000000	171263146314	631463151720	600000000000	000017177000	000000000000	171746314631	463146321716	
(192)	631463146314	631517156314	631463146315	171446314631	463146321714	463146314631	463217136314	631463146315	
(240)	000000000000	000000000000	000000000000	000017154000	000000000000	000000000000	000000000000	000000000000	
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172571722435	171723746051	
(432)	260240700512	772717175513	123060475243	606017657731	444777771716	405750137202	764017155637	063043266007	
(480)	172457317466	566167553020	172025172121	000022212122	000000000000	006020232730	270000001722	650342425146	
(528)	555460513505	740675357461	172060521336	774677276052	576457550000	000000575600	000000000000	574646000000	
(576)	000000005557	625541540000	0000						

FILE	2	RECORD	2548	LENGTH	590BYTES				
(0)	175066732773	400000001717	504506340725	767560601733	270045034435	606232077545	013551341731	625024630073	
(48)	314517307012	332032776414	172751630342	645772521725	554023141271	337717234532	714471315252	172145134726	
(96)	506745701724	561146314631	463217234371	463146314632	172243314631	463146321720	623146314631	463217164631	
(144)	463146314632	171540000000	000000001721	471463146314	631517205231	463146314632	171776314631	463146321717	
(192)	563146314631	463217157146	314631463147	171540000000	000000001714	463146314631	463200000000	000000000000	
(240)	000000000000	000000000000	000000000000	000017154631	463146314632	171363146314	631463150000	000000000000	
(288)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(336)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	
(384)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	172562514555	000244261723	
(432)	540775342732	076760623337	6505411467	606134000237	572102756056	377777777777	777760563777	777777777777	
(480)	172165356157	542225203320	172025172121	000022212122	000000000000	006020232727	310000001722	647473235106	
(528)	266760513504	166750075466	605734217240	214531256052	576457550000	000000575600	000000000000	574646000000	
(576)	000000005557	625541540000	0000						

D-46905

DUMP OF TAPE X-408

INPUT TAPE X-408 ON MT1
DATA INPUT H9 NF 6 SR 1 2 1 SR 2 2 1 SR 3 2 1 SR 4 2 1 SR 5 2 1 SR 6 2 1

FILE	1	RECORD	222	LENGTH	80BYTES							
(	0)	20332C20	32322C20	30202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(	40)	20202020	20202020	20202020	20202020	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#
1	505	505	80	0	0		0	0	0	0

FILE	2	RECORD	222	LENGTH	80BYTES							
(	0)	20332C20	32322C20	30202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(	40)	20202020	20202020	20202020	20202020	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#
2	505	505	80	0	0		0	0	0	0

FILE	3	RECORD	312	LENGTH	80BYTES							
(	0)	20332C20	33312C20	30202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(	40)	20202020	20202020	20202020	20202020	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#
3	505	505	80	0	0		0	0	0	0

FILE	4	RECORD	2	LENGTH	80BYTES							
(	0)	20202020	332E2020	33312E20	2020302E	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(	40)	20202020	20202020	20202020	20202020	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#
4	483	483	80	0	0		0	0	0	0

FILE	5	RECORD	1	LENGTH	80BYTES							
(	0)	20342C20	312C2030	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(	40)	20202020	20202020	20202020	20202020	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#
5	505	505	80	0	0		0	0	0	0

FILE	6	RECORD	1	LENGTH	80BYTES							
(	0)	20342C20	312C2030	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(	40)	20202020	20202020	20202020	20202020	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#
6	505	504	80	1	0		0	0	2	11

READ ERROR #	FILE #	RECORD #
1	6	289

EOJ DUMP STOPPED AFTER FILE 6 # OF PERMANENT READ ERRORS 1

START TIME 12/15/81 12:53:59 STOP TIME 12/15/81 12:56:23

\$NOP ***** LIST OF X399 *****
\$EXE TPLIST BS

D-46905

INPUT PARAMETERS ARE: AS SR=2=1 6

TAPE NO.	1	FILE NO.	1
RECORD	2	LENGTH	80
3, 22, 0			

TAPE NO.	1	FILE NO.	2
RECORD	2	LENGTH	80
3, 22, 0			

TAPE NO.	1	FILE NO.	3
RECORD	2	LENGTH	80
3, 31, 0			

TAPE NO.	1	FILE NO.	4
RECORD	2	LENGTH	80
3, 31, 0.			

TAPE NO.	1	FILE NO.	5
RECORD	2	LENGTH	80
4, 1, 0			

TAPE NO.	1	FILE NO.	6
RECORD	2	LENGTH	80
4, 1, 0			

***** JOB DONE.

D-47010

79	322	6	0	7	23.7	316.9	31.4	34.9	3.57	1.39	101.55	129.01	0
0	0	0	0	0	0	0	0	0	1	1	0	0	0

[illegible]

```
.....0.....1.....0.....0.....0.....1.....1.....0.....0.....  
.....0.....1.....0.....0.....0.....0.....0.....0.....0.....0.....
```

[illegible][illegible][illegible][illegible][illegible]

0 0 0 0 0 0

1 1 0 0 0 0

79	322	6	1	19	20.4	315.7	28.7	32.8	3.46	1.33	101.24	123.77	1
1		0		3	3	0	0						

0	0	0	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0

1	1	0	0	0	0	0	3	3	0	0	79	322	6	1	27	20.1	315.
---	---	---	---	---	---	---	---	---	---	---	----	-----	---	---	----	------	------

0	0	0	2	2	0	0	1	0	0	2	2	0	0	0	0
0	0	0	0	0	79	322	6	1	35	19.8	315.4	28.1	32.4	3.43	1
.32	101.15	122.56	0	0	0	0	0	0	1	1	0	1	0	3	
3	3	0	0	0	0	2	2	0	0	0	0	4	4	0	7
9	322	6	1	43	19.4	315.3	27.8	32.1	3.42	1.31	101.10	121.96	0	0	2
0	0	5	5	1	0	2	1	0	2	2	1	0	0	0	
1	1	1	0	3	2	1	1	1	0	0	79	322	6	1	51
27.5	31.9	3.40	1.31	101.04	121.34	0	0	1	1	0	5	19.1	315.1	3	2
2	2	1	0	0	0	0	0	0	3	3	2	0	0	0	
0	3	3	1	0	79	322	6	1	59	18.8	315.0	27.3	31.7	3.39	1.30
100.98	120.72	1	1	1	4	4	4	2	1	0	3	3	0	3	
1	0	0	0	8	8	1	0	0	0	1	1	1	0	79	
322	6	2	7	18.4	314.8	27.0	31.4	3.37	1.30	100.92	120.10	1	0	1	
1	1	7	6	4	0	0	0	3	3	3	0	0	0	6	
6	3	0	3	1	4	4	1	0	79	322	6	2	15	18.1	314.7
6.7	31.2	3.36	1.29	100.86	119.47	1	1	1	1	8	8	2	2	2	
0	3	2	1	5	5	4	0	2	1	0	3	3	1	0	
4	4	1	0	79	322	6	2	23	17.8	314.6	26.4	30.9	3.35	1.29	1
00.79	118.82	5	4	1	4	3	0	1	1	0	2	2	2	2	
0	0	2	2	2	8	8	3	0	0	0	5	5	3	0	

TAPE NO.	1	FILE NO.	1												
RECORD	3	LENGTH	5040												
79	322	6	2	31	17.4	314.4	26.2	30.7	3.33	1.28	100.72	118.18	4		
3	3	5	4	2	0	2	1	1	6	6	6	0	7		
3	3	2	0	3	2	1	12	12	7	0	79	322	6	2	39
3	25.9	30.5	3.32	1.28	100.65	117.55	2	1	1	13	17.1	314.	11		
4	3	2	11	11	4	0	8	8	6	10	10	5	0	6	5
4	11	11	6	0	79	322	6	2	47	16.8	314.1	25.6	30.2	3.30	1
.27	100.57	116.90	8	7	4	16	14	6	0	7	7	5	15	1	
5	9	0	5	2	2	16	16	7	0	6	2	15	15	7	0
9	322	6	2	55	16.5	314.0	25.4	30.0	3.29	1.27	100.49	116.25	5	7	

2	22	9	0	3	3	10	10	8	0	79	322	6	3	3	16.2	313.8
25.1	29.7	3.28	1.27	100.40	115.59	8	8	6	2	29	25	5				
0	10	7	6	18	18	12	0	12	10	5	22	22	18	0		
0	18	18	13	0	79	322	6	3	11	15.9	313.7	24.9	29.5	14	13	1
100.31	114.93		14	12	5	29	22	3	0	18	14	7	26	26		
17	0															
	11	10	4	24	24	13	0	14	11	4	31	31	23	0	79	
322	6	3	19	15.6	313.5	24.6	29.2	3.25	1.26	100.22	114.25			14	1	
2	7	31	27	3	0	17	17	10	28	28	20	0				
											10	9	3	40		
40	20	0														
		18	16	11	34	34	20	0	79	322	6	3	27	15.3	313.4	2
4.4	29.0	3.24	1.26	100.12	113.58			16	14	9	50	42	0			
0																2
3	19	11	42	42	29	0										
						21	14	9	31	31	22	0				
												20	19	15		
44	44	27	0	79	322	6	3	35	15.0	313.2	24.2	28.8	3.22		1.25	1
00.02	112.90		25	19	13	48	40	9	0							
									31	25	16	52	52			
32	0															
	34	32	21	42	42	29	0									
							34	27	19	46	46	28	0			

TAPE NO.	1	FILE NO.	1													
RECORD	4	LENGTH	5040													
79	322	6	3	43	14.7	313.1	24.0	28.5	3.21	1.25	99.92	112.22		25		
18	9	38		34	9	0										
						34	24	13	58	58	38	0				
												32	30	20		
75	75	50	0													
			36	31	19	60	60	36	0	79	322	6	3	51	14.4	313.
0	23.8	28.3	3.20	1.25	99.81	111.53			44	38	25	64	50			
6	0															
	48	40	24	60	60	40	0									
						46	38	25	58	58	38	0				
23	64	64	40	0	79	322	6	3	59	14.2	312.8	23.5	28.1	42	38	
.24	99.70	110.85		40	36	22	83	75	4	0				3.18	1	
										50	44	27	99	9		
9	67	0														
		54	50	34	67	67	46	0								
								56	46	27	99	99	62	0	7	
9	322	6	4	7	13.9	312.6	23.3	27.8	3.17	1.24	99.59	110.15		75		
60	29	107	95	2	0											
					71	60	36	91	91	60	0					
											67	60	42	8		
3	83	54	0													
			54	48	26	91	91	64	0	79	322	6	4	15	13.6	312.5
23.1	27.6	3.16	1.24	99.47	109.45			58	52	34	107	91	4			
0																
79	75	44	123	123	83	0										
						71	62	40	87	87	60	0				
4	107	107	75	0	79	322	6	4	23	13.4	312.3	22.9	27.4	67	56	4
99.34	108.75		83	71	46	141	19	1	0					3.14	1.24	

322	6	4	31	13.1	312.2	22.7	27.1	83	71	44	115	115	79	0	79
7	52	133	15	3	0	95	83	60	123	123	83	0	91	75	52
119	83	0	95	83	58	133	133	83	0	79	322	6	4	39	12.9
2.5	26.9	3.12	1.23	99.09	107.34	107	91	58	181	49	7	10			
7	91	64	141	141	91	0	103	95	64	165	165	119	0	111	95
149	149	107	0	79	322	6	4	47	12.6	311.9	22.4	26.7	3.10	1.23	58
98.95	106.64	103	87	56	165	49	1	0	111	95	54	157	157	1	
19	0	133	119	71	157	157	103	0	133	119	79	149	149	103	0

[illegible]

281 281 197 0 79 322 6 5 59 10.8 310.4 21.1 24.6 313 265 173
97.55 100.08 297 253 173 393 13 1 0 329 281 189 313 313 2
13 0
313 253 181 297 297 197 0
313 265 189 345 345 229 0

TAPE NO. 1 FILE NO. 1
RECORD 6 LENGTH 5040
79 322 6 6 7 10.7 310.3 21.0 24.4 2.97 1.21 97.37 99.34 313
281 173 377 29 7 0
313 265 181 313 313 197 0

329 329 229 0
313 265 157 345 345 237 0 79 322 6 6 15 10.5 310.
1 20.9 24.1 2.96 1.21 97.19 98.59 345 297 205 409 45
1 0
345 313 205 329 329 221 0

345 297 205 345 345 245 0
181 345 345 221 0 79 322 6 6 23 10.3 309.9 20.8 23.9 329 281
.21 97.01 97.84 377 329 213 441 77 5 0 2.95 1

5 229 0
393 345 237 329 329 237 0
361 297 181 345 345 237 0 7
9 322 6 6 31 10.2 309.8 20.7 23.7 2.93 1.21 96.82 97.10 393
345 237 457 93 1 0

409 345 237 361 361 253 0
9 409 281 0
345 297 205 393 393 281 0 79 322 6 6 39 10.0 309.6
20.6 23.4 2.92 1.21 96.63 96.34 425 377 253 441 77 3

0
425 377 253 377 377 265 0
409 345 213 377 377 253 0
393 345 22 1.21

1 377 377 265 0 79 322 6 6 47 9.8 309.4 20.5 23.2 2.91
96.43 95.61 425 361 229 505 41 7 0 425 361 245 441 441
297 0
441 377 253 425 425 297 0

457 409 281 425 425 297 0 79
322 6 6 55 9.7 309.3 20.4 23.0 2.89 1.21 96.23 94.85 425 37
7 253 489 9 5 0 473 425 297 393 393 265 0

489 425 297 457
457 297 0
489 441 281 425 425 281 0 79 322 6 7 3 9.5 309.1 2
0.3 22.8 2.88 1.21 96.03 94.10 473 409 281 489 25 3 45

0
7 393 253 473 473 313 0
489 441 297 457 457 297 0
473 409 265

457 457 329 0 79 322 6 7 11 9.3 309.0 20.1 22.6 2.87 1.21
95.82 93.34 529 441 297 529 41 7 0 505 441 297 473 473 3
13 0
529 457 297 473 473 329 0

505 441 297 473 473 313 0
TAPE NO. 1 FILE NO. 1
RECORD 1677 LENGTH 5040

						1	1	0	0	0	0	0	0	0	0	0	0
	0	0	0	0													
9	-18.7	191.8	14.97	1	0	2	2	0	0	79	401	6	53	43	-9.9	121.	
1	0	1	0	0	0	0	0	0	0	3	3	2	0	0	1		
0	2	2	1	0	79	401	6	53	51	-9.8	121.8	-18.5	191.7	14.97	1		
.07	78.20	79.83	1	0	1	0	0	2	1	0	0	2	2	0	0		
0	0	0	3	2	1	1	1	0	0	0	0	1	1	1	0	7	
9	401	6	53	59	-9.7	121.7	-18.4	191.6	14.96	1.07	78.37	80.85					
1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0		
1	1	0	0	2	2	1	1	1	1	0	79	401	6	54	7	-9.6	121.6
-18.3	191.5	14.96	1.07	78.55	81.88					2	1	0	2	2	0		
0	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0		
0	1	1	0	0	79	401	6	54	15	-9.5	121.5	-18.2	191.4	14.95	1.07		
78.73	82.90	1	1	0	1	0	0	0	0	2	2	1	0	0			
0	0	2	1	0	2	2	1	0	0	0	2	2	2	0	79		
401	6	54	23	-9.4	121.4	-18.1	191.3	14.94	1.07	78.92	83.94	1					
0	0	3	3	1	0	2	2	0	2	2	1	0	0	0	0		
0	0	0	1	1	0	2	2	1	0	79	401	6	54	31	-9.3	121.3	-1
8.1	191.2	14.94	1.06	79.10	84.90					0	0	0	3	3	1		
0	2	2	0	1	1	1	0	1	1	0	0	0	0	0	0		
0	0	0	0	79	401	6	54	39	-9.2	121.2	-17.9	191.0	14.93	1.06			
79.29	85.94	0	0	0	0	0	2	1	1	0	1	1	1	0	0		
0	0	4	1	0	2	2	1	0	1	1	1	3	3	1	0		

TAPE NO.	1	FILE NO.	1													
RECORD	1678	LENGTH	5040													
79	401	6	54	47	-9.1	121.0	-17.8	190.9	14.93	1.06	79.49	86.97	1			
1	0	0	0	0	0	0	0	3	2	0	1	1	0			
0	0	0	0	0	0	0	0	0	0	79	401	6	54	55	-9.0	120.
9	-17.7	190.8	14.92	1.06	79.69	88.01	1	1	1	2	2	1	0	0		
0	1	1	0	1	1	0	0	1	1	2	2	1	0	0		
0	0	0	0	0	0	79	401	6	55	3	-8.9	120.8	-17.6	190.7	14.92	1

0 0 0 4 4 1 0 0 0 0 1 1 0 0 0 0 0 7
9 401 6 55 11 25.6 121.1 20.2 190.7 14.92 1.06 80.11 90.09 3
3 0 2 2 1 0 0 0 0 0 0 0 1 0

0 0 0 0 4 2 1 0 0 0 0 79 401 6 55 19 25.7 121.0
20.3 190.6 14.92 1.06 80.32 91.14 0 0 0 0 0 1 1 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 1 1 0 0 79 401 6 55 27 25.8 120.9 20.4 190.5 14.91 1.06
80.54 92.16 2 2 2 1 0 0 2 1 0 0 0
0 0 2 2 0 0 0 0 0 1 0 0 2 1 0 0 0

401 6 55 35 25.9 120.8 20.5 190.4 14.90 1.06 80.76 93.21 2 0 79
2 1 2 2 1 0 0 0 0 0 0 0 0 0 2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 2

2 1 0 2 2 0 1 1 1 0 79 401 6 55 43 26.0 120.7 2
0.6 190.3 14.90 1.06 80.98 94.25 3 2 1 2 0 0 0 0
0 0 0 0 0 0 0 0 2 1 0 1 1 0 0 2 1

0 0 0 0 79 401 6 55 51 26.1 120.6 20.7 190.2 14.89 1.06
81.21 95.29 1 1 0 6 4 3 0 0 0 2 2
1 0 2 1 0 0 0 0 4 4 1 2 2 2 0

TAPE NO. 1 FILE NO. 1
RECORD 1679 LENGTH 5040
79 401 6 55 59 26.2 120.4 20.8 190.0 14.89 1.06 81.43 96.32 2
2 0 1 1 0 0 0 2 2 0 0 1 0 0

0 0 0 0 1 1 1 0 0 0 0 79 401 6 56 7 26.3 120.
3 20.9 189.9 14.88 1.06 81.66 97.36 1 0 0 0 0 3 2
0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1

0 0 0 0 0 79 401 6 56 15 26.4 120.2 21.0 189.8 14.88 1
.07 81.89 98.39 2 1 0 0 0 0 1 0 0 0 1
1 0 0 1 1 1 0 0 0 1 0 0 0 0 7
9 401 6 56 23 26.4 120.1 21.1 189.7 14.87 1.07 82.13 99.42 0

0 0 0 0 1 1 1 0 0 0 0 79 401 6 56 31 26.5 120.0
21.2 189.6 14.87 1.07 82.36 100.45 1 0 0 2 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[illegible]

1 1 1 1 1 0 0

TAPE NO. 1 FILE NO. 1
RECORD 1681 LENGTH 5040
79 401 6 58 23 29.0 118.3 23.8 188.1 14.80 1.11 85.66 114.14 1
1 1 0 0 0 0 1 1 0 0 0 0 2 1 0

0 0 0 0 0 0 3 3 0 0 79 401 6 58 31 29.3 118.
2 24.0 188.0 14.79 1.11 85.89 115.07 2 2 1 2 2
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 1 1 0 0 79 401 6 58 39 29.5 118.1 24.3 187.9 14.79 1
.12 86.12 116.00 0 0 0 3 3 2 0 0 0 0 0
0 0 0 2 1 1 1 1 0 0 0 0 3 3 0 0 7
9 401 6 58 47 29.7 117.9 24.6 187.8 14.78 1.12 86.33 116.86 0
0 0 1 1 1 0 1 1 0 0 0 0 0 0 0
1 1 0 0 1 0 2 2 1 0 79 401 6 58 55 30.0 117.8
24.9 187.7 14.78 1.13 86.56 117.76 1 1 1 1 1 1 0
0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 1 1 0 0 79 401 6 59 3 30.3 117.7 25.2 187.6 14.77 1.13
86.78 118.67 0 0 0 0 0 0 0 0 0 0 0 2 2
0 0 0 0 1 1 0 0 0 0 2 2 1 0 79
401 6 59 11 30.6 117.6 25.4 187.5 14.77 1.14 87.00 119.56 2
2 1 0 0 0 0 1 1 1 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5.7 187.4 14.76 1.14 87.21 120.42 0 0 79 401 6 59 19 30.8 117.5 2
0 2 2 2 0 0 0 0 2 2 2 3 3 1
0 0 0 0 79 401 6 59 27 31.1 117.3 26.0 187.3 14.76 1.15 0
87.43 121.29 0 0 0 1 0 0 0 1 0 0 0 0
0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TAPE NO. 1 FILE NO. 1
RECORD 1682 LENGTH 2240
79 401 6 59 35 31.4 117.2 26.3 187.2 14.76 1.15 87.64 122.16 1
0 0 3 3 1 0 2 1 1 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 79 401 6 59 43 31.7 117.

0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
0 1 1 1 0 79 401 6 59 51 32.0 117.0 27.0 187.0 14.75 1
.16 88.05 123.34 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 401 6 59 59 32.3 116.8 27.3 186.8 14.74 1.17 88.26 124.68 0 0 7
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TAPE NO. 1 FILE NO. 2
RECORD 1 LENGTH 5040
79 322 6 12 47 -23.7 2.51 .34 .38 .30 .38
3.0 10.0 9.0 3.0 0 79 322 6 12 55 -24.0 2
.50 .30 .45 .35 .32 6.0 10.0 4.0 2.0 0 79 322 6 13
3 -24.3 2.49 .31 .35 .35 .34 2.0 3.0 1.0
1.0 0 79 322 6 13 11 -24.5 2.48 .38
.33 .34 .40 8.0 3.0 1.0 6.0 0 79 322 6 13 19
-24.8 2.47 .41 .33 .36 .35 11.0 2.0 4.0 1.0
0 79 322 6 13 27 -25.1 2.46 .37 .40 .32
.38 1.0 4.0 5.0 8.0 0 79 322 6 13 35 -25.4
2.46 .38 .34 .35 .38 5.0 1.0 4.0 5.0 0 79 322
6 13 43 -25.7 2.45 .29 .33 .34 .30 2.0 7.0
10.0 3.0 0 79 322 6 13 51 -26.0 2.44
.31 .32 .37 .36 2.0 7.0 11.0 5.0 0 79 322 6 13 59
-26.3 2.43 .29 .38 .39 .33 11.0 3.0 8.0 2.0
0 79 322 6 14 7 -26.6 2.43 .33 .31
33 .31 7.0 10.0 3.0 4.0 0 79 322 6 14 15 -26.9
2.42 .34 .36 .29 .35 2.0 9.0 10.0 1.0 0 7
9 322 6 14 23 -27.2 2.41 .32 .40 .25 .33 5.0
6.0 5.0 10.0 0 79 322 6 14 31 -27.5 2.41
.33 .33 .34 .32 1.0 6.0 10.0 2.0 0 79 322 6 14 3
9 -27.8 2.40 .36 .35 .31 .27 10.0 7.0 7.0
9.0 0 79 322 6 14 47 -28.1 2.39 .29 .3
0 .30 .28 1.0 3.0 4.0 11.0 0 79 322 6 14 55
-28.4 2.39 .28 .31 .25 .22 11.0 11.0 7.0 7.0
0 79 322 6 15 3 -28.7 2.38 .24 .32 .29 .30
3.0 2.0 8.0 6.0 0 79 322 6 15 11 -29.0
2.37 .25 .28 .25 .27 8.0 5.0 5.0 8.0 0 79 322 6
15 19 -29.3 2.37 .25 .24 .29 .25 2.0 4.0
4.0 2.0 0 79 322 6 15 27 -29.6 2.36 .24
.26 .24 .22 2.0 2.0 2.0 1.0 0 79 322 6 15 35
-29.9 2.35 .18 .21 .18 .22 8.0 3.0 1.0 2.0
0 79 322 6 15 43 -30.2 2.35 .23 .26 .19
.17 9.0 4.0 4.0 2.0 0 79 322 6 15 51 -30.6
2.34 .19 .17 .17 .19 6.0 3.0 1.0 1.0 0 79
322 6 15 59 -30.9 2.33 .22 .17 .17 .19 10.0
6.0 2.0 9.0 0 79 322 6 16 7 -31.2 2.33
.15 .16 .17 .15 3.0 1.0 4.0 5.0 0 79 322 6 16 15
-31.6 2.32 .15 .14 .15 .15 2.0 2.0 6.0 6.
0 0 79 322 6 16 23 -31.9 2.31 .14 .16
.15 .15 8.0 4.0 7.0 1.0 0 79 322 6 16 31 -3
2.2 2.31 .13 .12 .11 .12 6.0 3.0 7.0 4.0
0 79 322 6 16 39 -32.5 2.30 .18 .14 .13 .15
1.0 6.0 9.0 1.0 0 79 322 6 16 47 -32.9
2.30 .17 .14 .12 .11 2.0 3.0 4.0 9.0 0 79 322 6 1
6 55 -33.2 2.29 .11 .09 .10 .12 9.0 6.0 5.
0 8.0 0 79 322 6 17 3 -33.6 2.29 .10

0 79 322 6 17 19 -34.3 2.28 .07 .05 .11
.09 7.0 5.0 5.0 10.0 0 79 322 6 27 59 -65.4
1.52 .14 .53 .81 1.10 1.0 2.0 4.0 5.0 0

TAPE NO. 1 FILE NO. 2
RECORD 2 LENGTH 5040

79 322 6 28 7 -65.8 1.49 1.30 1.91 2.24 3.01
4.0 6.0 6.0 6.0 0 79 322 6 28 15 -66.2 1
.47 3.25 3.09 4.14 3.47 6.0 6.0 6.0 6.0 0 79 322 6 28
23 -66.6 1.44 4.82 4.02 3.77 3.79 6.0 6.0 5.0
6.0 0 79 322 6 28 31 -66.9 1.42 7.44
4.95 3.99 3.06 6.0 6.0 6.0 6.0 0 79 322 6 28 39
-67.3 1.39 2.82 3.77 3.11 2.46 5.0 1.0 5.0 6.0
0 79 322 6 28 47 -67.8 1.36 2.08 2.23 2.07 1
.85 5.0 6.0 5.0 4.0 0 79 322 6 28 55 -68.1
1.34 1.75 1.84 1.52 1.71 6.0 6.0 6.0 6.0 0 79 322
6 29 3 -68.5 1.31 1.76 1.95 1.99 1.24 6.0 1.0
1.0 4.0 0 79 322 6 29 11 -68.9 1.27
.62 .57 .61 .07 1.0 3.0 3.0 2.0 0 79 322 6 29 19
-69.3 1.24 .10 .40 .02 .02 2.0 3.0 2.0 1.0
0 79 322 6 32 15 -77.5 23.91 .02 .02
02 5.12 1.0 1.0 1.0 14.0 0 79 322 6 32 23 -77.8
23.81 5.73 .02 .02 .02 1.0 1.0 1.0 1.0 0 7
9 322 6 34 47 -81.3 20.99 .04 .17 .02 .03 1.0
1.0 1.0 1.0 0 79 322 6 35 51 -80.6 19.43
.04 .04 .12 .04 1.0 1.0 1.0 1.0 0 79 322 6 38
7 -75.9 17.33 .06 .09 .10 .08 2.0 1.0 1.0
1.0 0 79 322 6 38 15 -75.5 17.25 .06 .0
9 .14 .13 1.0 1.0 1.0 1.0 0 79 322 6 38 23
-75.1 17.18 .23 .34 .34 .35 1.0 3.0 3.0 4.0
0 79 322 6 38 31 -74.7 17.11 .40 .44 .44 .53
3.0 4.0 3.0 4.0 0 79 322 6 38 39 -74.3
17.04 .58 .47 .34 .39 4.0 4.0 4.0 5.0 0 79 322 6
38 47 -73.9 16.98 .31 .18 .25 .57 3.0 2.0
3.0 5.0 0 79 322 6 38 55 -73.6 16.91 .47
.52 .45 .33 5.0 5.0 3.0 5.0 0 79 322 6 39 3
-73.2 16.85 .14 .07 .08 .09 1.0 1.0 1.0 2.0
0 79 322 6 39 11 -72.8 16.80 .07 .07 .10
.07 8.0 1.0 1.0 5.0 0 79 322 6 39 27 -72.0
16.70 .11 .12 .12 .10 1.0 1.0 1.0 1.0 0 79
322 6 39 35 -71.6 16.65 .13 .03 .03 .02 9.0
1.0 1.0 1.0 0 79 322 6 39 43 -71.2 16.61
.06 .13 .11 .03 1.0 8.0 1.0 1.0 0 79 322 7 19 3
72.0 12.71 .15 .21 .27 .38 9.0 8.0 6.0 6.
0 0 79 322 7 19 11 72.3 12.66 .36 .37
.30 .34 5.0 5.0 5.0 5.0 0 79 322 7 19 19 7
2.6 12.61 .37 .26 .30 .25 5.0 2.0 9.0 7.0
0 79 322 7 19 27 72.9 12.55 .36 .27 .33 .32
5.0 9.0 5.0 6.0 0 79 322 7 19 35 73.2 1
2.49 .18 .30 .26 .28 9.0 5.0 5.0 9.0 0 79 322 7 1
9 43 73.5 12.43 .32 .41 .36 .45 5.0 5.0 6.
0 5.0 0 79 322 7 19 51 73.7 12.37 .41
.42 .33 .34 6.0 6.0 2.0 7.0 0 79 322 7 19 59
74.0 12.31 .41 .40 .36 .35 6.0 7.0 8.0 1.0
0 79 322 7 20 7 74.3 12.24 .45 .52 .53
.53 6.0 6.0 6.0 8.0 0 79 322 7 20 15 74.6
12.18 .42 .47 .34 .32 1.0 6.0 2.0 1.0 0

TAPE NO. 1 FILE NO. 2
RECORD 3 LENGTH 5040

79 322 7 20 23 74.9 12.11 .42 .31 .16 .16
8.0 1.0 2.0 1.0 0 79 322 7 20 31 75.1 12
.04 .19 .19 .19 .18 2.0 1.0 1.0 1.0 0 79 322 7 20
39 75.3 11.96 .24 .23 .27 .24 1.0 1.0 5.0

75.8 11.80 .32 .28 .25 .24 5.0 5.0 5.0 5.0
0 79 322 7 21 3 76.1 11.72 .29 .53 .43
.29 4.0 6.0 4.0 5.0 0 79 322 7 21 11 76.3
11.63 .47 .24 .23 .17 5.0 4.0 1.0 4.0 0 79 322
7 21 19 76.6 11.55 .21 .12 .15 .12 3.0 3.0
5.0 3.0 0 79 322 7 21 27 76.8 11.45
.10 .08 .11 .10 1.0 1.0 1.0 1.0 0 79 322 7 21 35
77.1 11.36 .07 .07 .12 .17 1.0 1.0 1.0 1.0
0 79 322 7 21 43 77.3 11.26 .15 .10
21 .09 1.0 1.0 1.0 1.0 0 79 322 7 21 51 77.5
11.16 .12 .15 .07 .08 1.0 1.0 1.0 1.0 0 7
9 322 7 21 59 77.6 11.06 .09 .08 .12 .17 1.0
1.0 1.0 1.0 0 79 322 7 22 7 77.8 10.96
.22 .17 .04 .04 1.0 1.0 1.0 0 79 322 7 22 3
9 78.4 10.51 .04 .04 .08 .12 1.0 1.0 1.0
1.0 0 79 322 7 25 19 78.7 7.85 .07 .1
2 .09 .10 1.0 1.0 1.0 0 79 322 7 26 7
77.8 7.15 .10 .16 .12 .23 1.0 1.0 1.0 1.0
0 79 322 7 26 15 77.7 7.04 .20 .16 .15 .10
1.0 1.0 1.0 1.0 0 79 322 7 26 23 77.5
6.93 .36 .42 .07 .05 1.0 1.0 1.0 1.0 0 79 322 7
26 39 77.1 6.74 .07 .09 .11 .13 1.0 1.0
1.0 1.0 0 79 322 7 26 47 76.8 6.64 .10
.39 .21 .23 1.0 1.0 1.0 1.0 0 79 322 7 26 55
76.6 6.55 .19 .25 .26 .27 1.0 2.0 1.0 1.0
0 79 322 7 27 3 76.4 6.46 .25 .26 .34
.50 1.0 1.0 1.0 1.0 0 79 322 7 27 11 76.2
6.37 .33 .20 .19 .20 1.0 1.0 1.0 2.0 0 79
322 7 27 19 75.9 6.29 .28 .20 .17 .25 1.0
1.0 1.0 2.0 0 79 322 7 27 27 75.6 6.21
.24 .36 .36 .40 3.0 3.0 3.0 2.0 0 79 322 7 27 35
75.3 6.14 .37 .40 .38 .34 3.0 2.0 3.0 2.
0 0 79 322 7 27 43 75.1 6.06 .35 .47 7
.57 .54 3.0 3.0 4.0 4.0 0 79 322 7 27 51
4.8 5.99 .55 .62 .67 .59 3.0 4.0 3.0 4.0
0 79 322 7 27 59 74.6 5.92 .62 .66 .67 .58
3.0 4.0 4.0 4.0 0 79 322 7 28 7 74.3
5.85 .62 .61 .50 .50 4.0 4.0 4.0 3.0 0 79 322 7 2
8 15 74.0 5.78 .39 .56 .51 .42 3.0 4.0 3.
0 3.0 0 79 322 7 28 23 73.7 5.72 .44
.55 .31 .44 3.0 3.0 2.0 3.0 0 79 322 7 29 3
72.2 5.44 0.00 1.02 1.07 1.02 0.0 4.0 5.0 5.0
0 79 322 7 29 11 71.9 5.38 1.02 1.18 1.00
1.27 5.0 4.0 4.0 5.0 0 79 322 7 29 19 71.6
5.33 1.20 1.71 1.63 1.54 5.0 1.0 1.0 5.0 0

TAPE NO. 1 FILE NO. 2
RECORD 4 LENGTH 5040

79 322 7 29 27 71.3 5.28 2.40 3.15 2.56 2.03
1.0 2.0 1.0 1.0 0 79 322 7 29 35 70.9 5
.23 1.84 1.67 1.80 1.71 5.0 5.0 6.0 6.0 0 79 322 7 29
43 70.6 5.19 1.23 .82 .75 .80 7.0 3.0 5.0
7.0 0 79 322 7 29 51 70.3 5.14 1.18
1.42 2.18 1.40 5.0 1.0 1.0 1.0 0 79 322 7 29 59
69.9 5.10 1.69 1.94 1.24 1.33 8.0 6.0 6.0 8.0
0 79 322 7 30 7 69.6 5.06 .59 1.22 .63
.48 5.0 6.0 4.0 4.0 0 79 322 7 30 15 69.2
5.01 .54 .41 .55 .38 4.0 3.0 3.0 3.0 0 79 322
7 30 23 68.9 4.98 .38 .38 .43 .34 4.0 4.0
4.0 4.0 0 79 322 7 30 31 68.6 4.94
.42 .92 1.11 .99 5.0 5.0 6.0 5.0 0 79 322 7 30 39
68.3 4.90 1.01 1.44 .66 .76 5.0 6.0 5.0 6.0
0 79 322 7 30 47 67.9 4.87 .54 .51
40 .19 4.0 4.0 4.0 3.0 0 79 322 8 9 11 -65.0

1.0	2.0	2.0	0	79	322	8	9	27	-65.8	2.49			
.16	.35	.40	.43	3.0	3.0	4.0	4.0	0	79	322	8	9	3
5		-66.3	2.49	.35	.32	.60	.88	4.0	3.0	4.0			
5.0	0	79	322	8	9	43	-66.7	2.48	2.68	1.5			
3	1.27	.73	6.0	5.0	5.0	4.0	0	79	322	8	9	51	
-67.2		2.47	1.16	.34	.48	.34	5.0	3.0	4.0	3.0			
0	79	322	8	9	59	-67.7	2.46	.79	.17	.24	4.83		
1.0	2.0	2.0	6.0	0	79	322	8	10	7	-68.1			
2.45	1.42	.10	.07	.05	5.0	1.0	1.0	1.0	0	79	322	8	
10	15	-68.6	2.44	.05	.49	1.06	2.86	1.0	3.0				
4.0	5.0	0	79	322	8	10	23	-69.0	2.43	3.37			
.06	.03	.05	4.0	1.0	1.0	1.0	0	79	322	8	10	47	
-70.3		2.40	.05	.05	.08	.12	1.0	1.0	1.0	2.0			
0	79	322	8	10	55	-70.7	2.38	.13	.03	.03			
.10	1.0	1.0	1.0	1.0	0	79	322	8	11	3	-71.2		
2.36	.13	.18	.03	.03	2.0	2.0	1.0	1.0	0	79			
322	8	11	11	-71.7	2.36	.11	.08	.07	.17	1.0			
1.0	1.0	2.0	0	79	322	8	11	19	-72.1	2.35			
.69	.51	.84	.10	4.0	4.0	2.0	1.0	0	79	322	8	19	59
-78.4		15.72	.06	.11	.06	.07	1.0	1.0	1.0	1.0			
0	0	79	322	8	20	7	-78.0	15.68	.12	.13			
.08	.11	1.0	1.0	1.0	1.0	0	79	322	8	20	15	-7	
7.5		15.66	.16	.08	.12	.12	1.0	1.0	1.0	1.0			
0	79	322	8	20	23	-77.1	15.63	.13	1.00	.21	.37		
1.0	1.0	1.0	1.0	0	79	322	8	20	31	-76.6	1		
5.60	.33	.32	.35	.23	1.0	4.0	2.0	1.0	0	79	322	8	2
0	39	-76.2	15.58	.20	.30	.21	.23	1.0	1.0	1.0			
0	3.0	0	79	322	8	20	47	-75.7	15.55	.34			
.33	.24	.24	4.0	3.0	2.0	2.0	0	79	322	8	20	55	
-75.3		15.53	.37	.19	.19	.20	1.0	1.0	1.0	1.0			
0	79	322	8	21	3	-74.8	15.52	.10	.17	.13			
.11	1.0	1.0	1.0	1.0	0	79	322	8	21	11	-74.4		
15.50	.13	.11	.12	.09	1.0	1.0	1.0	2.0	0				

TAPE NO.	1	FILE NO.	2										
RECORD	5	LENGTH	5040										
79	322	8	21	19	-73.9	15.48	.14	.11	.12	.11			
1.0	1.0	1.0	1.0	0	79	322	8	21	27	-73.5	15		
.46	.11	.05	.04	.05	1.0	1.0	1.0	1.0	0	79	322	8	21
35	-73.1	15.44	.05	.12	.11	.10	1.0	1.0	1.0	1.0			
1.0	0	79	322	8	21	43	-72.6	15.43	.07				
.10	.06	.10	1.0	1.0	1.0	7.0	0	79	322	8	21	51	
-72.2		15.41	.05	.11	.05	.06	1.0	7.0	8.0	1.0			
0	79	322	8	21	59	-71.8	15.40	.08	.09	.09			
.18	9.0	1.0	7.0	6.0	0	79	322	8	22	7	-71.3		
15.39	.10	.06	.05	.21	1.0	5.0	7.0	5.0	0	79	322		
8	22	15	-70.9	15.38	.05	.12	.17	.09	6.0	6.0			
6.0	6.0	0	79	322	8	22	23	-70.4	15.36				
.12	.05	.11	.09	5.0	4.0	4.0	4.0	0	79	322	8	22	31
-69.9		15.35	.14	.08	.13	.10	6.0	8.0	5.0	5.0			
0	79	322	8	22	39	-69.5	15.34	.09	.16				
02	.02	9.0	6.0	1.0	6.0	0	79	322	8	59	51	69.3	
	13.51	.07	.07	.07	.11	1.0	2.0	2.0	1.0	0	7		
9	322	8	59	59	69.7	13.49	.12	.16	.19	.22	1.0		
1.0	1.0	1.0	0	79	322	9	0	7	70.0	13.46			
.23	.32	.26	.21	2.0	1.0	3.0	4.0	0	79	322	9	0	1
5		70.4	13.43	.29	.34	.30	.34	2.0	2.0	8.0			
4.0	0	79	322	9	0	23	70.7	13.40	.30	.1			
8	.19	.28	4.0	4.0	3.0	3.0	0	79	322	9	0	31	
71.1		13.38	.31	.31	.34	.33	4.0	4.0	4.0	4.0			
0	79	322	9	0	39	71.4	13.35	.38	.44	.42	.45		
4.0	8.0	4.0	3.0	0	79	322	9	0	47	71.8			
13.32	.44	.41	.40	.46	4.0	3.0	1.0	8.0	0	79	322	9	
0	55	72.1	13.29	.48	.41	.37	.38	1.0	8.0				

79	322	9	3	11		77.8		12.52		1.46		1.17		1.17		1.19	
1.0	1.0	1.0	1.0	1.0		0 79	322	9	3 19					78.1		12	
.45		1.04		1.09		1.21		1.16		1.0	1.0	1.0	1.0		0 79	322	9 3
27					78.5		12.37		1.12		1.13		.92	1.02	1.0	1.0	1.0
	1.0				0 79	322	9	3 35					78.8		12.30		1.02
.99		1.26		1.57		1.0	1.0	1.0	1.0			0 79	322	9	3 43		
	79.1				12.23		1.50		1.37		1.13		1.45	1.0	1.0	1.0	1.0
	0 79	322	9	3 51					79.4			12.14		1.36	1.50	1.16	1
.07	1.0	1.0	1.0	1.0	1.0			0 79	322	9	3 59					79.6	
	12.05		1.68		1.13	.99	1.08	1.0	1.0	1.0	1.0	1.0			0 79	322	
9	4	7			79.9			11.96		.98	.82	1.29		.98	1.0	1.0	
1.0	1.0	1.0			0 79	322	9	4 15				80.2				11.87	
.99		.94		.82		.97	1.0	1.0	1.0	1.0		0 79	322	9	4 23		
		80.5			11.77		.67	.59	.79		.57	1.0	1.0	1.0	1.0	1.0	
	0 79	322	9	4 31					80.8			11.66		.49	.65		
60	1.78		1.0		1.0	1.0			0 79	322	9	4 39					81.0
		11.54		.37	.35	.24	.23	1.0	1.0	1.0	1.0	1.0	1.0				0 7
9	322	9	4 47			81.2			11.42		.47	.45	1.35		.47		1.0
	1.0	1.0	1.0			0 79	322	9	4 55				81.5			11.29	
	.11		.96		.07	.07	1.0	1.0	1.0	1.0			0 79	322	9	5	
3				81.7		11.16		1.85	2.39	2.28	0.00	2.0	3.0	3.0			
4.0			0 79	322	9	5 11			81.9			11.01		3.32	1.7		
3	.64	2.58	5.0	4.0	3.0	5.0			0 79	322	9	5 19					
82.2			10.84		.66	1.27	1.77	.86	1.0	2.0	1.0	3.0					
0 79	322	9	5 27				82.4		10.66		.78	.02	.03	.02			
2.0	2.0	2.0	1.0			0 79	322	9	5 59				83.0				
9.95		.19	.29	.39	.27	1.0	2.0	2.0	1.0			0 79	322	9			
6	7			83.1		9.73		.14	.04	.04	.02	1.0	1.0				
1.0	1.0			0 79	322	9	6 47			83.3			8.65	.15			
	.12	.58	.33	1.0	1.0	1.0	1.0			0 79	322	9	6 55				
	83.3		8.42		.04	.07	.05	1.19	1.0	1.0	1.0	1.0					
	0 79	322	9	7 3			83.3		8.19		.27	.44	1.24				
1.24	1.0	1.0	1.0	1.0	1.0			0 79	322	9	7 11		83.2				
	7.98		.98	.89	.64	.14	1.0	1.0	1.0	1.0	1.0		0 79				
322	9	7 19			83.1		7.77		.12	.11	.06	.0					

1.0 1.0 1.0 1.0 0 79 322 9 9 43 79.0 .36
5.17 .63 .65 .64 .62 1.0 1.0 1.0 1.0 0 79 322 9
9 51 78.7 5.09 .70 .73 .77 .64 1.0 1.0 1.0
0 1.0 0 79 322 9 9 59 78.4 5.01 .68
.63 .70 .56 1.0 1.0 1.0 1.0 0 79 322 9 10 7
78.0 4.93 .70 .63 .57 .59 1.0 1.0 1.0 1.0
0 79 322 9 10 15 77.7 4.86 .48 .51 .42
.50 1.0 1.0 1.0 1.0 0 79 322 9 10 23 77.4
4.79 .44 .48 .45 .48 1.0 1.0 1.0 1.0 0

TAPE NO. 1 FILE NO. 2
RECORD 76 LENGTH 5040
79 401 4 55 43 -62.4 16.81 .09 .12 .08 .07 1
1.0 11.0 1.0 11.0 0 79 401 4 55 51 -62.0 0 79 401 4 56
.77 .09 .03 .14 .02 11.0 1.0 1.0 1.0 0 79 401 4 56
7 -61.2 16.70 .02 .02 .02 .10 1.0 1.0 1.0
11.0 0 79 401 4 56 15 -60.8 16.67 .08
.05 .13 .21 11.0 1.0 10.0 11.0 0 79 401 4 56 23
-60.5 16.63 .08 .06 .21 .15 11.0 1.0 11.0 11.0
0 79 401 5 28 31 57.9 13.83 .01 .03 .02 5
.12 1.0 1.0 1.0 14.0 0 79 401 5 28 39 58.3
13.81 6.36 .02 .02 .03 1.0 1.0 1.0 1.0 0 79 401
5 32 15 68.5 12.82 .05 .04 .03 .13 1.0 1.0
1.0 1.0 0 79 401 5 32 31 69.2 12.72
.02 .05 .20 .05 1.0 1.0 1.0 1.0 0 79 401 5 32 39
69.6 12.66 .03 .02 .49 .66 1.0 1.0 10.0 1.0
0 79 401 5 32 47 69.9 12.60 .55 .51
43 .52 1.0 1.0 1.0 1.0 0 79 401 5 32 55 70.2
12.55 .06 .02 .16 .35 1.0 1.0 11.0 11.0 0 7
9 401 5 33 3 70.5 12.49 .57 .45 .60 .54 1.0
10.0 11.0 10.0 0 79 401 5 33 11 70.8 12.42
.28 .17 .04 .05 1.0 11.0 1.0 1.0 0 79 401 5 33 1
9 71.1 12.36 .14 .21 .37 .30 11.0 11.0 10.0
11.0 0 79 401 5 33 27 71.4 12.29 .43 .5
5 .48 .31 11.0 10.0 11.0 11.0 0 79 401 5 33 35
71.7 12.22 .37 .39 .35 .36 11.0 11.0 11.0 10.0
0 79 401 5 33 43 72.0 12.15 .32 .31 .49 .66
10.0 11.0 10.0 11.0 0 79 401 5 33 51 72.2
12.08 .63 .65 .54 .72 11.0 11.0 10.0 10.0 0 79 401 5
33 59 72.5 12.00 .57 .60 .40 .58 11.0 10.0
11.0 11.0 0 79 401 5 34 7 72.8 11.93 .62
.30 .27 .45 10.0 10.0 11.0 10.0 0 79 401 5 34 15
73.1 11.85 .49 .46 .50 .53 11.0 11.0 11.0 10.0
0 79 401 5 34 23 73.3 11.77 .38 .63 .80
.60 11.0 9.0 10.0 10.0 0 79 401 5 34 31 73.6
11.68 .66 .55 .68 .75 10.0 1.0 9.0 10.0 0 79
401 5 34 39 73.8 11.60 .87 .92 .86 1.03 9.0
8.0 9.0 9.0 0 79 401 5 34 47 74.0 11.51
.50 .26 .89 1.10 11.0 11.0 9.0 7.0 0 79 401 5 34 55
74.2 11.42 1.11 .69 1.02 .82 7.0 10.0 6.0 9.
0 0 79 401 5 35 3 74.4 11.33 1.01 .62
.73 .95 9.0 9.0 1.0 1.0 0 79 401 5 35 11 7
4.6 11.23 1.06 .17 .20 .23 1.0 5.0 4.0 4.0
0 79 401 5 35 19 74.8 11.14 .22 .35 .33 .38
4.0 3.0 3.0 3.0 0 79 401 5 35 27 75.0 1
1.04 .48 .30 .33 .32 3.0 3.0 3.0 3.0 0 79 401 5 3
5 35 75.2 10.94 .27 .30 .27 .21 1.0 3.0 3.
0 3.0 0 79 401 5 35 43 75.4 10.83 .26
.24 .25 .36 2.0 3.0 2.0 3.0 0 79 401 5 35 51
75.5 10.73 .34 .27 .37 .31 3.0 3.0 2.0 3.0
0 79 401 5 35 59 75.7 10.62 .37 .54 .36
.24 1.0 1.0 1.0 3.0 0 79 401 5 36 7 75.8
10.51 .31 .29 .25 .27 3.0 1.0 2.0 1.0 0

RECORD 77
79 401 5 36 15 75.9 10.40 .21 .25 .29 .48
1.0 1.0 1.0 1.0 0 79 401 5 36 23 76.0 10
.28 .12 .11 .11 3.07 1.0 1.0 1.0 1.0 0 79 401 5 36
31 76.1 10.17 .34 .12 .17 .14 1.0 1.0 1.0
1.0 0 79 401 5 36 39 76.2 10.06 .41
.15 .21 .20 1.0 1.0 1.0 1.0 0 79 401 5 36 47
76.3 9.94 .09 .13 .15 .27 1.0 1.0 1.0 1.0
0 79 401 5 36 55 76.3 9.83 .24 .19 .32 1
.44 1.0 1.0 1.0 1.0 0 79 401 5 37 3 76.4
9.71 .10 .32 .14 .11 1.0 1.0 1.0 1.0 0 79 401
5 37 11 76.4 9.59 .10 .13 .08 .12 1.0 1.0
1.0 1.0 0 79 401 5 37 19 76.5 9.47
.12 .08 .10 .08 1.0 1.0 1.0 1.0 0 79 401 5 37 27
76.5 9.35 .18 .23 .36 .70 1.0 1.0 1.0 1.0
0 79 401 5 37 35 76.5 9.23 .77 .92 2.
74 .07 1.0 1.0 1.0 1.0 0 79 401 5 37 43 76.5
9.11 .08 .16 .15 .19 1.0 1.0 1.0 0 7
9 401 5 37 51 76.5 8.98 .12 .18 .75 .29 1.0
1.0 1.0 1.0 0 79 401 5 37 59 76.4 8.86
.63 .22 .25 .23 1.0 1.0 1.0 1.0 0 79 401 5 38
7 76.3 8.75 .35 .33 .53 .18 1.0 1.0 1.0
1.0 0 79 401 5 38 15 76.3 8.63 .46 .1
5 .15 .20 1.0 1.0 1.0 1.0 0 79 401 5 38 23
76.2 8.52 .45 .18 .76 .70 1.0 1.0 1.0
0 79 401 5 38 31 76.2 8.41 .19 .19 .27 .33
1.0 1.0 1.0 1.0 0 79 401 5 38 39 76.1
8.29 .23 .27 .31 .16 1.0 1.0 1.0 1.0 0 79 401 5
38 47 76.0 8.17 .50 .33 .33 .73 1.0 1.0
1.0 1.0 0 79 401 5 38 55 75.9 8.07 .55
.44 .31 .24 1.0 1.0 1.0 1.0 0 79 401 5 39 3
75.7 7.97 .33 .31 .22 .27 1.0 1.0 1.0 1.0
0 79 401 5 39 11 75.6 7.86 .23 .31 .33
.28 1.0 1.0 1.0 1.0 0 79 401 5 39 19 75.4
7.76 .36 .26 .30 .41 1.0 1.0 1.0 1.0 0 79
401 5 39 27 75.3 7.65 .28 .43 .50 1.73 1.0
1.0 1.0 1.0 0 79 401 5 39 35 75.1 7.55
.96 1.54 2.95 .56 1.0 1.0 1.0 1.0 0 79 401 5 39 43
74.9 7.46 .48 .46 .64 .92 1.0 1.0 1.0 1.
0 0 79 401 5 39 51 74.7 7.36 .37 .81
1.05 1.14 1.0 1.0 1.0 1.0 0 79 401 5 39 59 7
4.5 7.27 1.03 1.16 1.22 1.28 1.0 1.0 1.0
0 79 401 5 40 7 74.3 7.18 1.28 1.28 1.29 1.31
1.0 4.0 2.0 2.0 0 79 401 5 40 15 74.1
7.09 1.17 1.24 1.30 1.33 2.0 2.0 2.0 4.0 0 79 401 5 4
0 23 73.9 7.00 1.41 1.23 .96 .92 2.0 4.0 4.
0 5.0 0 79 401 5 40 31 73.7 6.92 1.16
1.15 1.37 1.18 3.0 3.0 5.0 5.0 0 79 401 5 40 39
73.5 6.85 1.21 1.34 1.28 1.26 4.0 5.0 5.0 7.0
0 79 401 5 40 47 73.2 6.77 1.33 1.27 1.30
1.32 4.0 4.0 7.0 7.0 0 79 401 5 40 55 73.0
6.69 1.29 1.22 .77 .83 8.0 7.0 3.0 2.0 0
0 79 401 5 40 55 73.0

TAPE NO. 1 FILE NO. 2
RECORD 78 LENGTH 5040
79 401 5 41 3 72.7 6.61 .96 .80 .73 .70
7.0 2.0 6.0 5.0 0 79 401 5 41 11 72.4 6
.54 .61 .77 .70 .77 3.0 5.0 3.0 4.0 0 79 401 5 41
19 72.2 6.47 .73 .63 .63 .76 6.0 5.0 5.0
6.0 0 79 401 5 41 27 71.9 6.40 .80
.65 .64 .72 5.0 6.0 6.0 7.0 0 79 401 5 41 35
71.7 6.33 .63 .65 .71 1.27 6.0 7.0 5.0 7.0
0 79 401 5 41 43 71.4 6.27 .95 1.31 1.23 1
.30 8.0 7.0 6.0 7.0 0 79 401 5 41 51 71.1
6.21 1.24 .67 .59 .62 6.0 7.0 4.0 4.0 0 79 401

.53 .27 .29 .27 4.0 3.0 4.0 4.0 0 79 401 5 42 15
70.2 6.03 .28 .39 .45 .40 3.0 3.0 4.0 5.0
0 79 401 5 42 23 69.9 5.98 .48 .47
41 .39 4.0 3.0 3.0 5.0 0 79 401 5 42 31 69.6
5.93 .23 .97 .90 1.67 3.0 6.0 9.0 8.0 0 7
9 401 5 42 39 69.3 5.87 1.61 1.12 .97 1.65 9.0
8.0 9.0 8.0 0 79 401 5 42 47 69.0 5.82
1.55 1.03 .94 .75 9.0 9.0 8.0 7.0 0 79 401 5 43 2
7 67.4 5.59 0.00 .43 .24 .21 0.0 3.0 3.0
4.0 0 79 401 5 43 35 67.0 5.54 1.34 2.6
1 2.77 1.08 10.0 10.0 10.0 1.0 0 79 401 5 43 43
66.7 5.50 .51 .35 .31 .24 1.0 1.0 4.0 4.0
0 79 401 5 43 51 66.4 5.46 .29 .21 .35 1.78
3.0 1.0 1.0 10.0 0 79 401 5 43 59 66.0
5.42 2.53 2.57 2.53 .45 10.0 10.0 7.0 0 79 401 5
44 7 65.7 5.38 .13 .09 .08 .40 3.0 1.0
1.0 1.0 0 79 401 5 44 15 65.4 5.35 .44
.30 .09 .06 1.0 1.0 1.0 1.0 0 79 401 5 44 47
63.9 5.21 .10 .11 .06 .07 5.0 1.0 1.0 1.0
0 79 401 5 44 55 63.5 5.17 .11 .06 .06
.15 2.0 1.0 2.0 6.0 0 79 401 5 45 3 63.2
5.14 .17 .08 .06 .09 2.0 1.0 1.0 2.0 0 79
401 5 45 11 62.8 5.11 .12 .04 .12 .10 8.0
1.0 8.0 8.0 0 79 401 6 9 3 -23.4 2.56
.32 .34 .37 .35 7.0 4.0 3.0 10.0 0 79 401 6 9 11
-23.6 2.55 .35 .36 .35 .41 9.0 7.0 2.0 8.
0 0 79 401 6 9 19 -23.9 2.54 .37 .38
.35 .28 9.0 6.0 7.0 1.0 0 79 401 6 9 27 -2
4.1 2.54 .30 .39 .34 .39 1.0 8.0 5.0 8.0
0 79 401 6 9 35 -24.4 2.53 .36 .35 .34 .31
8.0 6.0 2.0 6.0 0 79 401 6 9 43 -24.6
2.52 .35 .38 .34 .41 2.0 5.0 8.0 7.0 0 79 401 6
9 51 -24.9 2.51 .38 .36 .37 .35 3.0 1.0 4.
0 7.0 0 79 401 6 9 59 -25.2 2.50 .31
.35 .36 .37 2.0 6.0 3.0 9.0 0 79 401 6 10 7
-25.4 2.49 .34 .36 .30 .34 8.0 2.0 8.0 4.0
0 79 401 6 10 15 -25.7 2.49 .35 .42 .32
.36 8.0 10.0 8.0 5.0 0 79 401 6 10 23 -26.0
2.48 .31 .34 .35 .34 9.0 4.0 1.0 2.0 0

TAPE NO. 1 FILE NO. 2
RECORD 79 LENGTH 5040
79 401 6 10 31 -26.3 2.47 .35 .36 .33 .35 1
0.0 5.0 6.0 9.0 0 79 401 6 10 39 -26.6 2
.46 .36 .35 .32 .34 5.0 8.0 1.0 8.0 0 79 401 6 10
47 -26.9 2.46 .40 .25 .39 .28 3.0 3.0 9.0
8.0 0 79 401 6 10 55 -27.2 2.45 .32
.33 .35 .31 2.0 1.0 6.0 11.0 0 79 401 6 11 3
-27.5 2.44 .35 .35 .31 .24 6.0 8.0 5.0 1.0
0 79 401 6 11 11 -27.8 2.44 .33 .24 .35
.29 4.0 2.0 2.0 5.0 0 79 401 6 11 19 -28.1
2.43 .30 .35 .26 .31 5.0 8.0 4.0 11.0 0 79 401
6 11 27 -28.5 2.42 .28 .23 .29 .27 7.0 4.0
3.0 10.0 0 79 401 6 11 35 -28.8 2.41
.27 .25 .24 .22 3.0 5.0 5.0 3.0 0 79 401 6 11 43
-29.1 2.41 .27 .24 .29 .26 8.0 3.0 7.0 6.0
0 79 401 6 11 51 -29.4 2.40 .22 .23
23 .24 1.0 3.0 5.0 11.0 0 79 401 6 11 59 -29.7
2.39 .23 .21 .23 .22 8.0 2.0 5.0 7.0 0 7
9 401 6 12 7 -30.0 2.39 .22 .19 .23 .21 6.0
3.0 5.0 2.0 0 79 401 6 12 15 -30.3 2.38
.18 .20 .24 .20 4.0 6.0 3.0 10.0 0 79 401 6 12 2
3 -30.6 2.37 .19 .19 .18 .23 7.0 4.0 2.0
6.0 0 79 401 6 12 31 -31.0 2.37 .17 .1

0	79	401	6	12	47	-31.6	2.35	.14	.17	.15	.14				
6.0	11.0	2.0	2.0			0	79	401	6	12	55	-31.9			
2.35	.10	.14	.17	.16		4.0	4.0	4.0	6.0		0	79	401	6	
13	3					2.34	.12	.11	.15	.11	6.0	8.0			
5.0	1.0					0	79	401	6	13	11	-32.6	2.34	.13	
.09	.13	.11	6.0	2.0	10.0	2.0		0	79	401	6	13	19		
-32.9			2.33	.14	.09	.10	.12	6.0	2.0	4.0	4.0				
.12	9.0	7.0	3.0	5.0		0	79	401	6	13	35	2.32	.09	.10	.12
	2.32	.09	.09	.11	.09	1.0	11.0	4.0	8.0		0	79			-33.6
401	6	13	43			-33.9	2.31	.09	.11	.10	.09	2.0			
11.0	1.0	1.0				0	79	401	6	13	51	-34.3			2.30
.09	.07	.11	.07	2.0	1.0	3.0	10.0		0	79	401	6	23	51	
	-63.2			1.64	.08	.15	.15	.23	1.0	2.0	1.0	5.			
0		0	79	401	6	23	59	-63.6	1.62	.13	.16				
.18	.67	5.0	5.0	5.0	5.0		0	79	401	6	24	7			-6
4.0		1.59	.41	.19	.15	.16	5.0	2.0	2.0	2.0					
0	79	401	6	24	15	-64.4	1.57	.19	.31	.23	.28				
3.0	3.0	2.0	3.0			0	79	401	6	24	23	-64.8			
1.55	.30	.31	.37	.43	6.0	4.0	2.0	5.0		0	79	401	6	2	
4	31				1.53	.38	.66	.46	.56	4.0	3.0	4.			
0	5.0				0	79	401	6	24	39	-65.6	1.50	.52		
.55	.58	.57	4.0	6.0	5.0	4.0		0	79	401	6	24	47		
-66.0		1.48	.56	.52	1.50	.44	5.0	5.0	7.0	4.0					
0	79	401	6	24	55	-66.4	1.45	.38	.44	.41					
.50	3.0	5.0	3.0	5.0		0	79	401	6	25	3	-66.8			
1.43	.60	.77	.85	.70	5.0	4.0	4.0	5.0		0					

TAPE NO. 1 FILE NO. 2
RECORD 80 LENGTH 5040

79	401	6	25	11	-67.2	1.40	.76	.78	.84	.62					
4.0	4.0	4.0	3.0		0	79	401	6	25	19	-67.6				1
.38	.48	.45	.36	.29	3.0	3.0	3.0	2.0		0	79	401	6	25	
27			-68.0	1.35	.20	.24	.23	.24	2.0	3.0	3.0				
3.0			0	79	401	6	25	35	-68.4	1.32	.24				
.31	.12	.11	3.0	1.0	1.0	2.0		0	79	401	6	25	43		
-68.8			1.28	.11	.20	.12	.20	2.0	2.0	1.0	3.0				
.11	1.0	2.0	1.0	1.0		0	79	401	6	25	59	1.25	.12	.17	
1.21		.10	.14	.12	.09	2.0	1.0	1.0	1.0		0	79	401		
6	27	27		-73.8	.69	.06	.07	.07	.11	1.0	1.0				
1.0	1.0		0	79	401	6	27	35	-74.2		.63				
.12	.08	.08	.07	1.0	1.0	1.0	1.0		0	79	401	6	28	31	
	-76.6		.10	.07	.11	.17	.09	1.0	1.0	1.0	1.0				
	0	79	401	6	29	27	-78.8	23.37	.09	.09					
12	.13	1.0	1.0	1.0	1.0		0	79	401	6	29	59	-79.7		
	22.85	.06	.05	.12	.12	1.0	1.0	1.0	1.0		0	7			
9	401	6	30	7	-80.0	22.69	.15	.14	.14	.11	1.0				
1.0	1.0	1.0		0	79	401	6	30	15	-80.1	22.52				
.15	.27	.85	.59	1.0	1.0	1.0	1.0		0	79	401	6	31	4	
3		-81.0	20.50	.02	.02	.02	1.65	1.0	1.0	1.0					
3.0		0	79	401	6	31	51	-80.9	20.32	.92	.9				
1	.30	.18	2.0	2.0	1.0	1.0		0	79	401	6	31	59		
-80.9		20.12	.09	.09	.14	.13	1.0	1.0	1.0	1.0					
0	79	401	6	32	7	-80.8	19.92	.08	.11	.07	.04				
1.0	1.0	1.0	1.0		0	79	401	6	32	31	-80.3				
19.38	.20	.64	.05	.03	1.0	1.0	1.0	1.0		0	79	401	6		
32	55		-79.7	18.89	.03	6.17	.08	.14	2.0	3.0					
1.0	1.0		0	79	401	6	33	3	-79.5	18.76	.12				
.25	.97	.08	1.0	1.0	1.0	1.0		0	79	401	6	33	11		
-79.3		18.63	.15	.09	.13	.12	1.0	2.0	1.0	1.0					
0	79	401	6	33	19	-79.0	18.49	.13	.58	.16					
.08	1.0	1.0	1.0	1.0		0	79	401	6	33	27	-78.7			
18.35	.08	.07	.37	1.35	1.0	1.0	1.0	2.0		0	79				

.26 .13 .21 .15 1.0 1.0 2.0 1.0 0 79 401 6 33 51
-77.8 18.00 .21 .27 .21 .10 1.0 1.0 1.0 1.
0 0 79 401 6 33 59 -77.5 17.90 .12 .10
.14 .14 1.0 1.0 1.0 1.0 0 79 401 6 34 7 -7
7.2 17.79 .20 .24 .25 .25 4.0 1.0 1.0 1.0
0 79 401 6 34 15 -76.9 17.69 .27 .26 .22 .13
1.0 3.0 3.0 1.0 0 79 401 6 34 23 -76.6 1
7.61 .09 .11 .09 .31 1.0 1.0 1.0 1.0 0 79 401 6 3
4 31 -76.2 17.52 .06 .16 .14 .16 1.0 1.0 1.
0 1.0 0 79 401 6 34 39 -75.8 17.44 .35
.25 .17 .25 1.0 1.0 1.0 1.0 0 79 401 6 34 47
-75.4 17.36 .27 .36 .30 .53 1.0 3.0 2.0 1.0
0 79 401 6 34 55 -75.1 17.28 .44 .42 .40
.44 1.0 3.0 1.0 5.0 0 79 401 6 35 3 -74.7
17.21 .43 .48 .39 .48 4.0 5.0 4.0 6.0 0

TAPE NO. 1 FILE NO. 2
RECORD 81 LENGTH 1680
79 401 6 35 11 -74.3 17.14 .52 .63 .58 .52
4.0 6.0 5.0 6.0 0 79 401 6 35 19 -73.9 17
.08 .52 .62 .51 .50 5.0 5.0 5.0 4.0 0 79 401 6 35
27 -73.6 17.02 .56 .42 .28 .37 6.0 5.0 4.0
5.0 0 79 401 6 35 35 -73.2 16.96 .43
.33 .28 .12 5.0 4.0 5.0 3.0 0 79 401 6 35 43
-72.8 16.90 .08 .13 .11 .09 3.0 3.0 4.0 4.0
0 79 401 6 35 51 -72.4 16.85 .12 .25 .25
.19 3.0 5.0 5.0 5.0 0 79 401 6 35 59 -72.0
16.80 .17 .12 .16 .64 5.0 5.0 1.0 6.0 0 79 401
6 36 7 -71.6 16.74 .58 .58 .46 .08 6.0 5.0
6.0 3.0 0 79 401 6 36 15 -71.2 16.70
.10 .08 .12 .06 4.0 4.0 1.0 1.0 0 79 401 6 37 35
-67.0 16.31 .34 .02 .03 .12 10.0 1.0 1.0 10.0
0 79 401 6 37 51 -66.1 16.25 .02 .02
05 .33 1.0 1.0 1.0 11.0 0 79 401 6 37 59 -65.7
16.22 .56 .38 .02 .03 9.0 7.0 1.0 1.0 0

***** JOB DONE.
\$WEO LPS

\$ASS IN MT4 OUT MT1
\$EXE TPDUPC BS

D-47133

DUMP OF TAPE LOGOUT-1

INPUT TAPE LOGOUT-1 0, 10
DATA INPUT 00 OF 3 FL 3 1 0

FILE	1	RECORD	1	LENGTH	200BYTES	79	3	22
(0)	175053332563	000000001726	474000000000	000017216000	000000000000	172454000000	000000001713	577305332563
(4)	725317144512	751703302115	171471666213	207126011715	542233513615	237617164213	207126010142	171664570651
(96)	767635551717	506517676355	442717177712	601014223351	172061156457	065176761721	455645706517	676417217124
(144)	773716662132	172254146314	631463151723	420365605075	341217236456	050753412173	172450656050	753412170000
(192)	000000000000	0000						

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES			
RECS.	INPUT	SIZE	PERM	ZERO	SHORT	UNDEF.	#RECS.	TOTAL#
1	107	107	195	0	0	0	0	0

FILE	2	RECORD	1	LENGTH	200BYTES	79	3	22
(0)	175053332563	000000001726	474000000000	000017216000	000000000000	172454000000	000000001713	577305332563
(4)	725317144512	751703302115	171471666213	207126011715	542233513615	237617164213	207126010142	171664570651
(96)	767635551717	506517676355	442717177712	601014223351	172061156457	065176761721	455645706517	676417217124
(144)	773716662132	172254146314	631463151723	420365605075	341217236456	050753412173	172450656050	753412170000
(192)	000000000000	0000						

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES			
RECS.	INPUT	SIZE	PERM	ZERO	SHORT	UNDEF.	#RECS.	TOTAL#
2	2205	2205	195	0	0	0	0	0

FILE	3	RECORD	1	LENGTH	200BYTES	79	3	22
(0)	175053332563	000000001726	474000000000	000017216000	000000000000	172454000000	000000001713	577305332563
(4)	725317144512	751703302115	171471666213	207126011715	542233513615	237617164213	207126010142	171664570651
(96)	767635551717	506517676355	442717177712	601014223351	172061156457	065176761721	455645706517	676417217124
(144)	773716662132	172254146314	631463151723	420365605075	341217236456	050753412173	172450656050	753412170000
(192)	000000000000	0000						

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES			
RECS.	INPUT	SIZE	PERM	ZERO	SHORT	UNDEF.	#RECS.	TOTAL#
3	1649	1649	195	0	0	0	0	0

EOJ DUMP STOPPED AFTER FILE 3 # OF PERMANENT READ ERRORS 0

START TIME 01/07/82 16:45:40 STOP TIME 01/07/82 16:47:12

181/1980
6/29/80

GROUP OF TAPE LINES

546 DAYS FROM 1/1/79

-365
181

INPUT TAPE LINES-1 09 AT2
DATA INPUT 12 1 1 1 2 2

FILE	1	RECORD	1	LENGTH	120BYTES							
(	0)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	40)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	80)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564

FILE	1	RECORD	2	LENGTH	120BYTES							
(	0)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	40)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	80)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564

FILE	1	RECORD	12750	LENGTH	120BYTES							
(	0)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	40)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	80)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564

FILE	1	RECORD	12751	LENGTH	120BYTES							
(	0)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	40)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564
(	80)	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564	00A0B564

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY				INPUT RETRIES	
RECS.	INPUT	SIZE	PERM.	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#	
1	12751	12752	120	1	0	0	0	1	8
READ ERROR #	FILE #	RECORD #							
1	1	374							

STOPPED AFTER FILE 1 4 OF PERMANENT READ ERRORS 1

START TIME 06/26/ 1 13:14:50 STOP TIME 06/26/81 13:19:10

307
10110000
0011
30
A0
10100000
0010
20
11011000
01011000
58
10110010
32