547

SCATHA

CDAW DATA SETS FOR 6.0 + 8.0

79-007A-06A,08A,11B,12A,13A,14A,15A,05A

547	79-007A-05A	SPMS-00379	SCATHA
547	79-007A-06A	SPMS-00525	SCATHA
547	79-007A-08A	SPMS-00378	SCATHA
547	79-007A-11B	SPMS-00523	SCATHA
547	79-007A-12A	SPMS-00592	SCATHA
547	79-007A-13A	SPMS-00094	SCATHA
547	79-007A-14A	SPMS-00351	SCATHA
547	79-007A-15A	SPMS-00591	SCATHA

Table of Contents

---

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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 P78-2

E-FIELD (&B-FIELD)COMPONENTS, TAPE

79-007A-05A SPMS-00379

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 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
DR005741	DS005741	D046427	1 - 9	03/22/79 - 04/01/79

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

E FIELD COMPONENTS 3 FILES / DAY

79-007A-05A

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

D#	C#	TIME SPAN
D-46427	C-21696	3/22/79,3/31/79,4/1/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 81-007A-05A

DATE DATA RECEIVED: 9/14/81

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:	1 Mag-tape

SATELLITE NAME/NSDF NAME: SCATHA

EXPERIMENT NAME: _____

DATA SET FULL NAME: E Field components 3 files/day

CONTACT: _____ ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: 20

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

ACCESSION UNIT NUMBERS: DD 46427 C-21696

REMARKS:

CDAW

DATA RECEIPT NOTIFICATION SENT? ☐

Sheila Mahon

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

Date September 8, 19

NSSDC ID 79-007A-05A

CDAW DATA SET ENTRY

Date Rcvd: August 31, 1981 CDB: db

Data Sent By: Tom Aggson

Material Rcvd: 1 tapes 9-track 1600 bpi JFM BINARY 9Files PDP

documentation)

Satellite/NSRF Name: SCATHA (STP P78-2)

Data Set Name: E field components 3 files/day

☒ New Data Set ☐ Additions ☐ Replacements

Comments

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

~~Tapes To be Returned~~ TB: Not to Be Returned

"Please generate Dump" Marker

Completed By: K. Headley

344-8991 Mihir Ghosh for tape format questions

79-007A-05
PDP CDB 6
IBM - 32-bit Binary

Tape for Air Force Geophysical Laboratory

Tape Specifications:

3 files/day

9 Track, Density = 3, 1600 bpi, Label = NL (No Label) The physical record length is 2640 bytes. There are 3. files containing data. File 1 contains data from 14 channels at intervals of 60 seconds. File 2 contains least square fitted electric field components (EX,EY) at times separated by the spin period. File 3 contains common mode data from 3 channels, at intervals of 1 second. End of File mark marks the end of the File. Double end of file mark marks the end of volume. Description of data words in each file is given below.

File 1

File 1 is headed by a header record followed by data records. All records are 2640 bytes containing 660 elements of I*4 (32 bits) type. The first 4 data words in the header record are as follows:

Word 1 = Year
Word 2 = Day
Word 3 = 10
Word 4 = Code Word ('1' for File 1)

The remaining 656 words are filled with zeros.

Data Records: The data record is 2640 bytes containing 660 32 bit words. There are 44 groups of 15 data words in each physical record. The time is given in milliseconds. All the data are expressed in physical units using the appropriate algorithm. The order of data in the physical record is given below.

Word 1	Time in millisecond
Word 2	DCHI
Word 3	AC
Word 4	CM1-
Word 5	CM2-
Word 6	CM3-
Word 7	BX(Direct)

Word 8	BY(Direct)
Word 9	ECH2
Word 10	ECH3
Word 11	ECH4
Word 12	MCH1
Word 13	MCH2
Word 14	MCH3
Word 15	MCH4
Word 16	Time in millisecond
Word 17	DCHI
Word 18	AC
Word 19	CM1-
Word 20	CM2-
Word 21	CM3-
Word 22	BX(Direct)
Word 23	BY(Direct)
Word 24	ECH2
Word 25	ECH3
Word 26	ECH4
Word 27	MCH1
Word 28	MCH2
Word 29	MCH3
Word 30	MCH4
'	'
'	'
631-645	next minute
645-660	next minute

All data values except MCH1, MCH2, MCH3, and MCH4 are multiplied by 10^3. The data containing MCH1, MCH2, MCH3, and MCH4 data words are multiplied by 10^4 for better resolution. A data drop or bad data is filled with binary '1's. It is obvious that the last physical record of file will not have exactly 660-32 bit data words. In that case remaining data are filled with zeros to make the physical record 2640 bytes long. The end of file mark marks the end of file.

File 2

File 2 contains the least-squares fitted electric field components EX and EY data. File 2 is headed by a header record followed by data records. The physical record is 2640 bytes containing 660-32 bit data words.

Header Records: The header record for File 2 is 2640 bytes. The first 4 data words (each 32 bits) are shown below.

Word 1 = Year
Word 2 = Day
Word 3 = 10
Word 4 = Code Word ('2' for File 2)

The remaining 656 data words are filled with zeros.

Data Record:

The data record for File 2 is 2640 bytes containing 660-32 bit words. There are 220 groups of 3 data words in each physical record. Time is expressed in milliseconds. The data value is multiplied by 10^3 for better resolution. The order of data in each physical record is given below.

Word 1	Time in millisecond
Word 2	EX
Word 3	EY
Word 1	Time in millisecond
Word 2	EX
Word 3	EY
'	'
'	'
Word 658	Time in millisecond
Word 659	EX
Word 660	EY

Time words are separated by spin period which is approximately 57.3 seconds.

The last physical record of File 2 may not have exactly 660 data words. In that case, remaining data are filled with zeros to make the physical record 2640 bytes long.

File 3

File 3 contains the common mode data from 3 channels. File 3 is headed by a header record followed by data records. All physical records in this file are 2640 bytes containing 660-32 bit data words.

Header Record: The header record of File 3 is 2640 bytes long. The first 4 data words (each 32 bits) are shown below.

Word 1 = Year
Word 2 = Day
Word 3 = 10
Word 4 = Code Word ('3' for File 3).

The remaining 656 data words are filled with zeros.

Data Record File 3

Data record for File 3 is 2640 bytes containing 660-32 bit words. There are 13 groups of 49 data words in each physical record. Time is expressed in milliseconds. Each group of 49 data words contains a time word followed by 48 data words. Data are processed from each frame containing 16 seconds of data. The time word appears after 16 seconds. With the exception of the last physical record, there are 637-32 bit data words in each physical record. The remaining (660-637=23) 23 data are filled with zeros. The last data record also contains zero fill data. The number of zero fill data is determined by the number of data in the array of 660 elements. The order in which the data appears in a physical record for File 3 is shown below.

Data Record

Word 1	Time at the starts of 16 seconds period.
Word 2	CM1 - at the time of word 1
Word 3	CM2 - at the time of word 1
Word 4	CM3 - at the time of word 1
Word 5	CM1 - at the time of next sec.
Word 6	CM2 - at the time of next sec.
Word 7	CM3 - at the time of next. sec.
Word 47	CM1 - at the time of next sec.
Word 48	CM2 - at the time of next sec.
Word 49	CM3 - at the time of next sec.
Word 50	Time at the start of next 16 sec. period
Word 51	CM1 - Time at the time of data 50
Word 52	CM2 - Time at the time of data 50
Word 53	CM3 - Time at the time of data 50
Word 635	CM1 - Time at the end of 13th. 16 sec. period
Word 636	CM2 - Time at the end of " peri
Word 637	CM3 - Time at the end of " peri
Words (638-660)	are zero fill

Notice that the number of zero fill for the last data record is not known beforehand..

Participant: T. Aggson

Data Set Mnemonic: SC05

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-05A

Data Set Name: E-Field Components

Principal Investigators: T. Aggson, NASA/GSFC

Data Availability:

YY/DDD/HH/MM/SS	YY/DDD/HH/MM/SS
79/081/12/00/00	79/081/20/00/00
79/090/12/00/00	79/091/06/00/00

Data Time Interval: 60s

Description	Mnemonic	Units	Tuple
DC E-Field Spacecraft Coordinates Range -120 to +120	SC05DCHI	mv/m	
AC E-Field Spacecraft Coordinates Range -12 to +12	SC05AC	mv/m	
Common Mode Voltage Range -15 to +15	SC05CM1	v	
Common Mode Voltage Range -300 to +300	SC05CM2	v	
Common Mode Voltage Range -5000 to +5000	SC05CM3	v	
Magnetic Field x(direct) Spacecraft Coordinates Range -500 to +500	SC05BX	gammas	
Magnetic Field y(direct) Spacecraft Coordinates Range -500 to +500	SC05BY	gammas	
rms E-Field Noise Range 1Hz to 2Hz	SC05ECH2	mv/m	
rms E-Field Noise Range 2Hz to 20Hz	SC05ECH3	mv/m	
rms E-Field Noise Range 20Hz to 200Hz	SC05ECH4	mv/m	
rms B-Field Noise Range 1Hz to 1Hz	SC05MCH1	unknown	
rms B-Field Noise Range 1Hz to 2Hz	SC05MCH2	unknown	
rms B-Field Noise Range 2Hz to 20Hz	SC05MCH3	unknown	
rms B-Field Noise Range 20Hz to 200Hz	SC05MCH4	unknown	

Participant: T. Aggson

Data Set Mnemonic: SC05

(cont'd)

Description	Mnemonic	Units	Tuple
DC Electric Field components for EX Time Interval Approximately 57.3 seconds	SC05EX	mv/m	
DC Electric Field components for EY Time Interval Approximately 57.3 seconds	SC05EY	mv/m	

D-4642
3/22/1979 - 4/1/
3/31/79,

DUMP OF TAPE X404

INPUT TAPE X404 ON MT4
DATA INPUT H9 NF 9 FL 1 1 1 SR 9 1 1 SR 9 LAST 1

1979 81

FILE 1 RE[illegible] 1 LENGTH 2640BYTES

(0)	000007BB	00000051	0000000A	00000001	00000000	00000000	00000000	00000000	00000000	00000000
(40)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(80)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(400)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(640)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(720)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(760)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(840)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(880)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(960)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1040)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1080)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1400)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1640)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1720)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1760)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1840)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1880)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1960)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2040)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2080)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

(2240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2400)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	1999	35	2640	0	0	0	0	0	0

FILE 9 RECORD 1 LENGTH 2640BYTES

(0)	000007BB	0000005B	0000000A	00000003	00000000	00000000	00000000	00000000	00000000	00000000
(40)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(80)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(400)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(640)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(720)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(760)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(840)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(880)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(960)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1040)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1080)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1400)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1480)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1600)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1640)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1680)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1720)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1760)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1840)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1880)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

STP

P78-2 SC2-3 PLASMA DATA

P78-2 B FIELD AVERAGES - I MIN

P78-2 ENERGETIC PROTON FLUXES I-MIN AVG

79-007A-06A, 08A, 14A

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY FOUR 9-TRACK, 1600 BPI TAPES, AND ONE 9-TRACK 6250 BPI TAPE WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR TAPE IS 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. FILES 18-37 WERE AN IMAGE COPY. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN	
DR005206	DS005206	D045317	1-6	02/18/79 - 03/31/79	(06A)
		D045318	7-10	04/01/79 - 04/03/79	(06A)
		D046636	11-13	03/22/79 - 04/01/79	(08A)
		D046727	14-17	03/22/79 - 04/01/79	(14A)
		D073801	18-37	01/28/83 - 06/28/83	(06A,08A,14A)

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

SC 2 - 3 PLASMA DATA

79-007A-06A

This data set catalog consists of 2 tape(s). The tape(s) are 9 track, 1600 bpi, ebcdic with 6,4 file(s) of data. The time span D and C numbers are as follows:

D#	C#	TIME SPAN	
D-45317	C- 21546	2/18/79-3/31/79	6 files
D-45318	C- 21547	4/1/79 -4/3/79	4 files

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: [illegible]

DATE DATA RECEIVED: [illegible]

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:	Mag Tape

SATELLITE NAME/NSDF NAME: SCATHA

EXPERIMENT NAME: ____________

DATA SET FULL NAME: [illegible] PLASMA 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 [illegible]

REMARKS:

DATA RECEIPT NOTIFICATION SENT? ☐

[illegible signature]

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

Date July 15, 1981
NSSDC ID 79-007A-06(1

CDAW DATA SET ENTRY

Date Rcvd : July 15, 1981 EDB : 06

Data Sent By : J. Fennell

Material Rcvd : 2 tapes & documentation

1600 bpi - 9-track EBCDIC

verification plots (Data vs time, Data vs Data)

satellite/NSSDF Name : SIP P78-2 (SCATHA)

Data Set Name : SC2-3 Plasma Data

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage : Feb 18, March 22, March 31, April 1, April 3, 19

Tapes To be Returned to : Not To Be Returned

Please provide a tape dump - Thanks Da

Completed By : K. Headley

NASA
National Aeronautics and Space Administration

7/15/87
DATA ANALYSIS WORKSHOP CENTER
79-007A-06A

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (please print)

1. Data Set Name: SC2-3 Plasma Data from P78-2 (Scathe) satellite		
2. Scientific Contact: J. F. Fennell	3. Telephone No. or Telex No.: 213-648-7075	
4. Address: Aerospace Corp. A6/2437, P.O. Box 92957 ~~Los Angeles, Ca., 90009~~		
5. City: Los Angeles	6. State: Calif.	7. ZIP Code or Country: 90009
8. Programmer Contact: Lynn Friesen 213-648-5992		

SECTION II. TAPE DESCRIPTION

1. No. of Tapes Submitted: 2	2. Tape Density: ☐ 800 bpi ☒ 1600 bpi
3. No. of Files (per tape): B5565/6 files B5630/4 files	
4. No. of End of File Marks	5. No. of Tracks: ☐ 7 ☒ 9
6. Recording Parity: odd	7. Make and Model of Computer Used to Generate Tape: CDC 176
8. Are tapes written in binary, coded or both? (e.g. BCD) ~~BCD~~ EBCDIC	
9. What floating point representation is used? (e.g. CDC 64 bit): N/A	
10. What integer representation is used?: N/A	
11. No. of Physical Records (per file): see attached sheet	
12. Are original tapes to be returned? ☐ Yes ☒ No	
13. Start and Stop Time of Each File (If more space is needed, please attach.): see attached sheet	

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

SECTION IV. TO BE FILLED IN BY DAWOC ONLY

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

601-79 (10/80)

CDB6
7/15/88
79-002A-06A

Tapes B5565 and B5630 contain CDAW 6.0 data from SCATHA, SC2-3 ESA.

seconds?

Tape #	File #	UT start	UT stop	# Records	Contents (date, instrument)
B5565	1	10517.86	86404.69	63008	18 Feb 79, SC2-3 e
	2	"	"	"	18 Feb 79, SC2-3 p
	3	14.76	86413.56	82784	22 Mar 79, SC2-3 e
	4	"	"	"	22 Mar 79, SC2-3 p
	5	13.10	86411.92	67104	31 Mar 79, SC2-3 e
	6	"	"	"	31 Mar 79, SC2-3 p
B5630	1	12.92	86411.74	84640	1 Apr 79, SC2-3 e
	2	"	"	"	1 Apr 79, SC2-3 p
	3	12.55	86411.37	86400	3 Apr 79, SC2-3 e
	4	"	"	"	3 Apr 79, SC2-3 p

The tapes are 9-track, 1600 bpi and EBCDIC coded.

The fixed-length logical record size is 80 characters with 60 logical records per physical record.

Data: (Format (6X,3F10.2, I2,7I6))

UT (seconds)
Pitch angle (degrees)
Sun angle (degrees)
Program number (integer)
E1
E2
:
:
E7
} seven energy channels (countrate)

…pe B5565

N.B. {channel 0 not on tape}

	UT sec	Pitch Angle	Sun Angle	Instrument Program	channels in program 1	2	3	4	5	6	7		record #
1st, last records file 1	10517.86	100.57	178.87	1	0	0	0	0	0	0	0	electrons	1
	86404.69	125.77	76.48	2	3	4	3	3	9	7	18		63008
file 2	10517.86	100.57	178.87	1	0	0	0	0	0	0	0	ions	1
	86404.69	125.77	76.48	2	1	1	1	3	3	28	63		63008
file 3	14.76	132.61	170.15	1	0	0	0	0	0	0	0	electrons	1
	86413.56	142.25	155.47	2	3	102	206	358	376	486	167		82784
file 4	14.76	132.61	170.15	1	0	0	0	0	0	0	0	ions	1
	86413.56	142.25	155.47	2	1	3	2	15	15	66	83		82784
file 5	13.10	64.95	144.37	1	45	42	74	155	201	147	73	electrons	1
	86411.92	87.45	13.99	2	1	24	137	334	414	750	455		67104
file 6	13.10	64.95	144.37	1	2	1	1	3	9	33	56	ions	1
	86411.92	87.45	13.99	2	1	1	1	1	6	35	53		67104

80 col card images

29-0074-06A
2/15/81
CD86

Tape B5630:

N.B. {channel 0 not on tape}

	UT Sec	Pitch Angle	Sun Angle	INST. PRGM	Channels in Program 1	2	3	4	5	6	7		
first and last record, file 1	86412.92	92.97	21.03	1	96	213	366	461	692	582	398	} electrons	84641
	86411.74	65.96	146.00	2	1	150	401	464	548	380	345		84640
file 2	86412.92	92.97	21.03	1	2	1	7	12	18	41	80	} ions	84641
	86411.74	65.96	146.00	2	1	1	2	4	20	58	142		84640
file 3	86412.55	93.16	173.60	1	204	444	360	272	327	487	309	} electrons	86401
	86411.37	43.77	132.65	2	1	67	284	632	954	273	26		86400
file 4	86412.55	93.16	173.60	1	2	1	3	5	9	34	68	} ions	86401
	86411.37	43.77	132.65	2	1	1	3	5	21	164	78		86400

(UT Sec through channel 7: 80 col card image; last column: record #)

79-007A-06A
12/15/81
CDB 6

The program channel (or step) number determines the energy being measured at each UT time. The particle flux is determined by:

Electrons

$$J_e = \frac{(\text{Counts per sample} - 1)}{1.62 \times 10^{-5} \times E_e(\text{keV}) \times \epsilon_e}$$

where

$$\epsilon_e = 1 - 2/B$$

and

$$B \sim 3. + 6.5\,(0.2 + E_e(\text{keV})) + 30./(0.2 + E_e(\text{keV}))^3$$

{from Archuleta and DeForest, 1971}

Ions

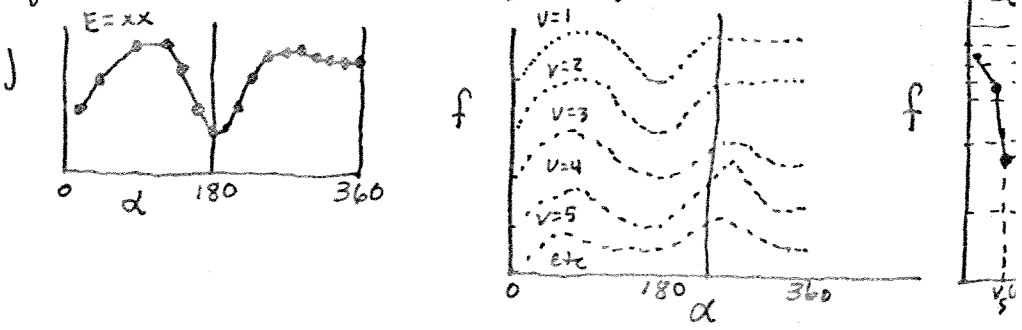
$$J_I = \frac{(\text{Counts per Sample} - 1)}{6.3 \times 10^{-5} \times E_{Ion}(\text{keV})}$$

Data should be plotted as:

1) Average flux versus time with two averages used per
   (a) $\alpha = 90° \pm 15°$ (ie) x symbol
   (b) α = 0° to 30° and = 150° to 180° combined. (ie) dot
   α = pitchangle. See example enclosed (A1 and A2)
   Average to be over 1 to 5 satellite spin periods. (~1
   (i) use 1 min if low frequency oscillations to be st
   (ii) Use 5 min for general flux information

2) Pitch angle plot on request. Make stacked plot as
   on enclosed sample (A3). Can use data accumulated over
   Spins and binned into 5° pitch angle bins before plottin

3) Isodistribution function contour plots in velocity s
   Starts with 2) above. Interpolate J in pitch angle
   each energy to give 1 to 2° resolution (180 to 360 va
   At each α (out of the 180 to 360) compute f(v) for e
   channel (see below). Then interpolate f(v)s at a giv
   to select prechosen $f_0(v)$s and find their velocity
   Plot appropriate symbol in $V_{\parallel}$, $V_{\perp}$ space. Do th
   each angle. Result will appear as attached pl
   of f(v) isocontours in $V_{\parallel}$, $V_{\perp}$ space.



The f(v) vs α array can be integrated to obtain pla
moments n, <E>, p, Eng. density,

P78-2 Satellite

SC2-3 ESA

Fennell

2/15/81

CDB 6

PEAK ENERGIES

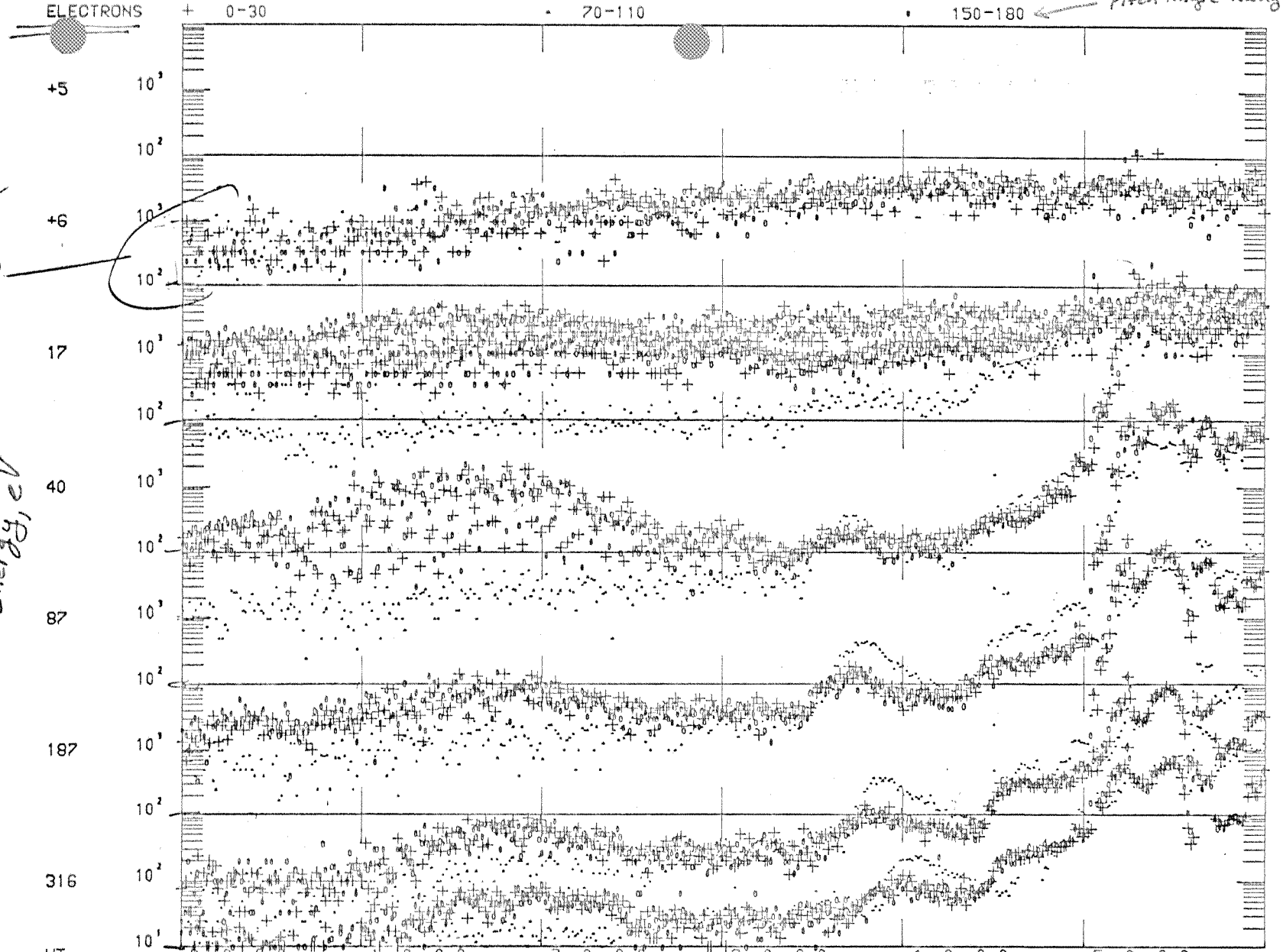
PGRM / STEP (FRAME NO.)		E_e (ev) ΔE ~ 7%	Multiplier to get Flux/cm²-ster-sec-ev	E_I (ev/q) ΔE ~ 8%	Multiplier to get Flux/cm²-ster-sec-ev
1	0	187	33	154	10.3
	1	446	13.8	360	4.4
	2	1090	5.7	880	1.8
	3	2580	2.4	2060	0.77
	4	4520	1.37	3600	0.44
	5	10950	0.56	8800	0.18
	6	19400	0.32	15600	0.10
2	0	+ 5 ions	(1230)	- 4v elect.	(400)
	1	89	71	74	21.4
	2	316	19.5	255	6.2
	3	815	7.59	655	2.4
	4	1940	3.18	1550	1.0
	5	5900	1.05	4800	0.33
	6	14400	0.43	11600	0.14
3	0	+ 6v ions	(1029)	- 4v elect.	(400)
	1	17	363	18	88
	2	40	154	37	43
	3	612	10.1	490	3.2
	4	1440	4.3	1165	1.4
	5	3410	1.8	2700	0.59
	6	8200	0.75	6650	0.24

eESA has analyzer const. = 5.9 ($\times V_{pp}$)

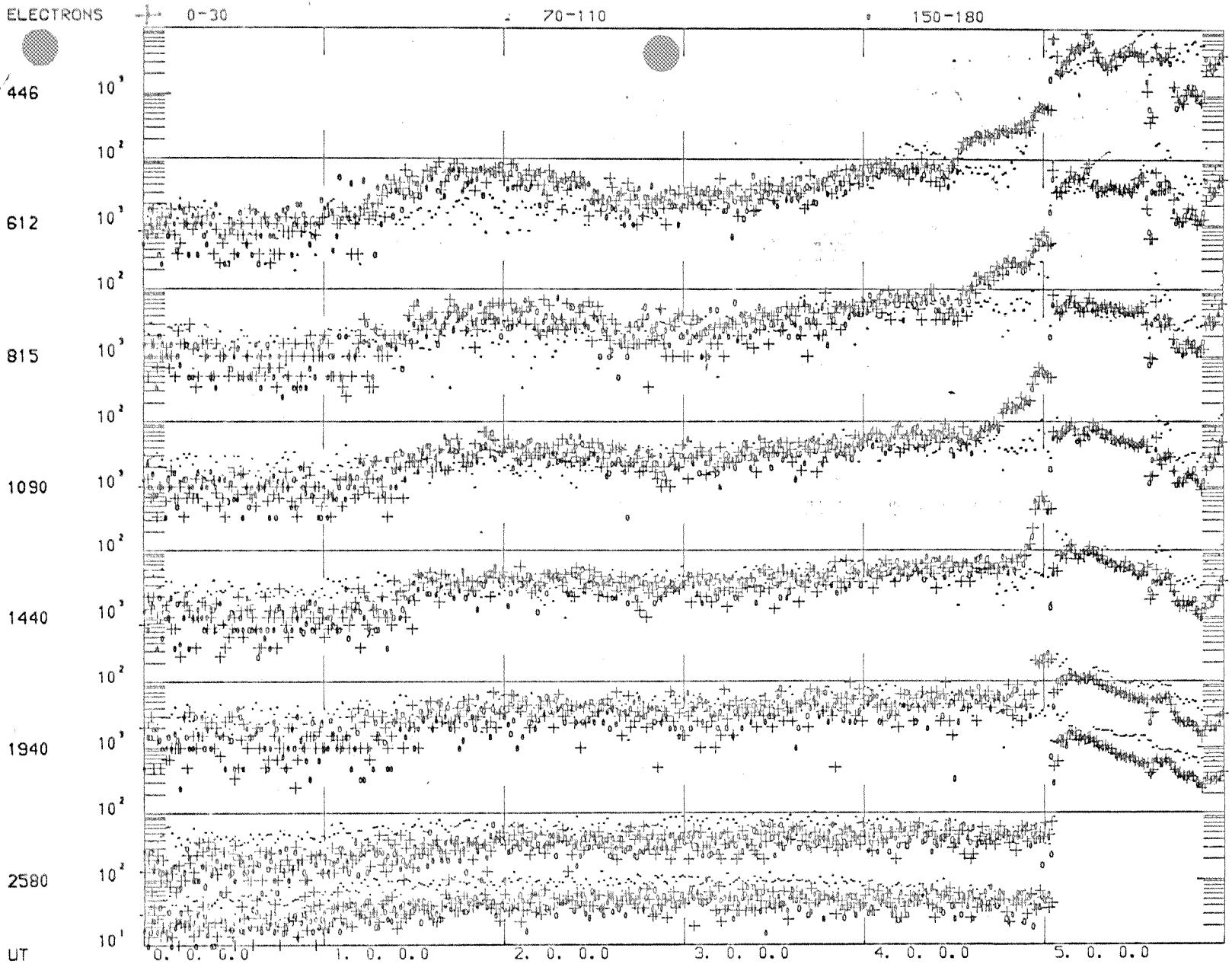
pESA has analyzer const. = 4.33 ($\times V_{pp}$)

$G_e = 1.62 \times 10^{-4}$ cm²-ster $\Delta E/E$

$G_p = 6.3 \times 10^{-4}$ cm²-ster $\Delta E/E$


ELECTRONS
0-30
70-110
150-180
Pitch Angle Range
+5
+6
17
40
87
187
316
Energy, eV
10^3
10^2
10^1
UT
0. 0. 0.0
1. 0. 0.0
2. 0. 0.0
3. 0. 0.0
4. 0. 0.0
5. 0. 0.0
UTSEC 0.0 3600.0 7200.0 10800.0 14400.0 18000.0
MLT 12.85 13.81 14.90 16.14 17.52 19.03
B(GAMMA) 107.63 119.98 133.61 149.06 168.31 182.77
L(ER) 6.60 6.39 6.19 5.98 5.74 5.56
ALT(ER) 5.85 5.54 5.21 4.88 4.61 4.41
SHA-SC2
FEB 12
REV 11.20
DAY 43
YEAR 1979
LAT
7.43
7.85
7.74
6.92
5.26
2.78
LON
200.26
199.71
200.68
203.42
207.97
214.13
ALT(KM)
37302
35279
33163
31115
29345
28092
MLAT
7.48
7.78
7.86
7.59
6.85
5.59

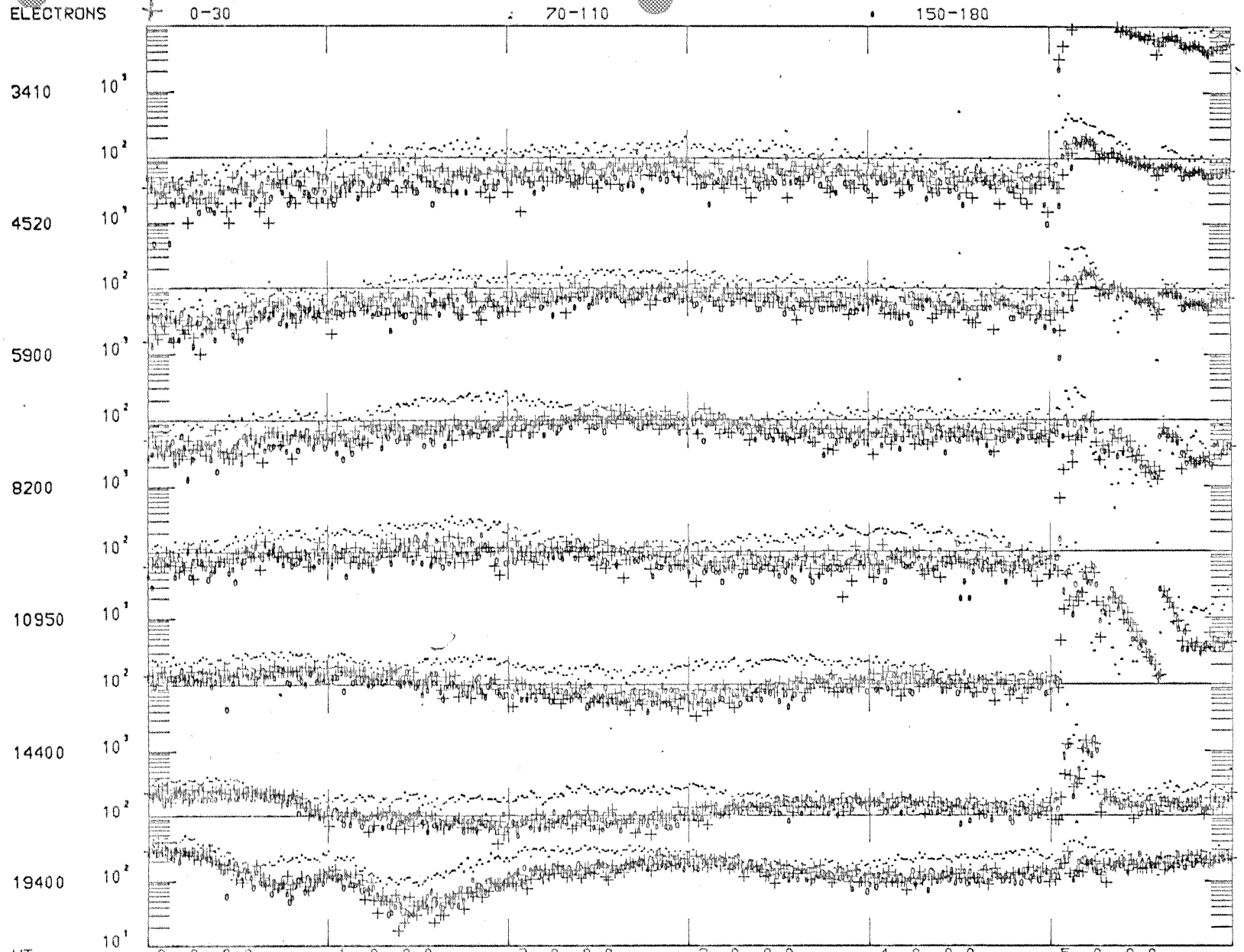
A1



SCATHA-SC2
FE 2
REV 11.20
DAY 43
YEAR 1979

LAT	7.43	7.85	7.74	6.92	5.26	2.78
LON	200.26	199.71	200.68	203.42	207.97	214.13
ALT(KM)	37302	35279	33163	31115	29345	28092
MLAT	7.48	7.78	7.86	7.59	6.85	5.59

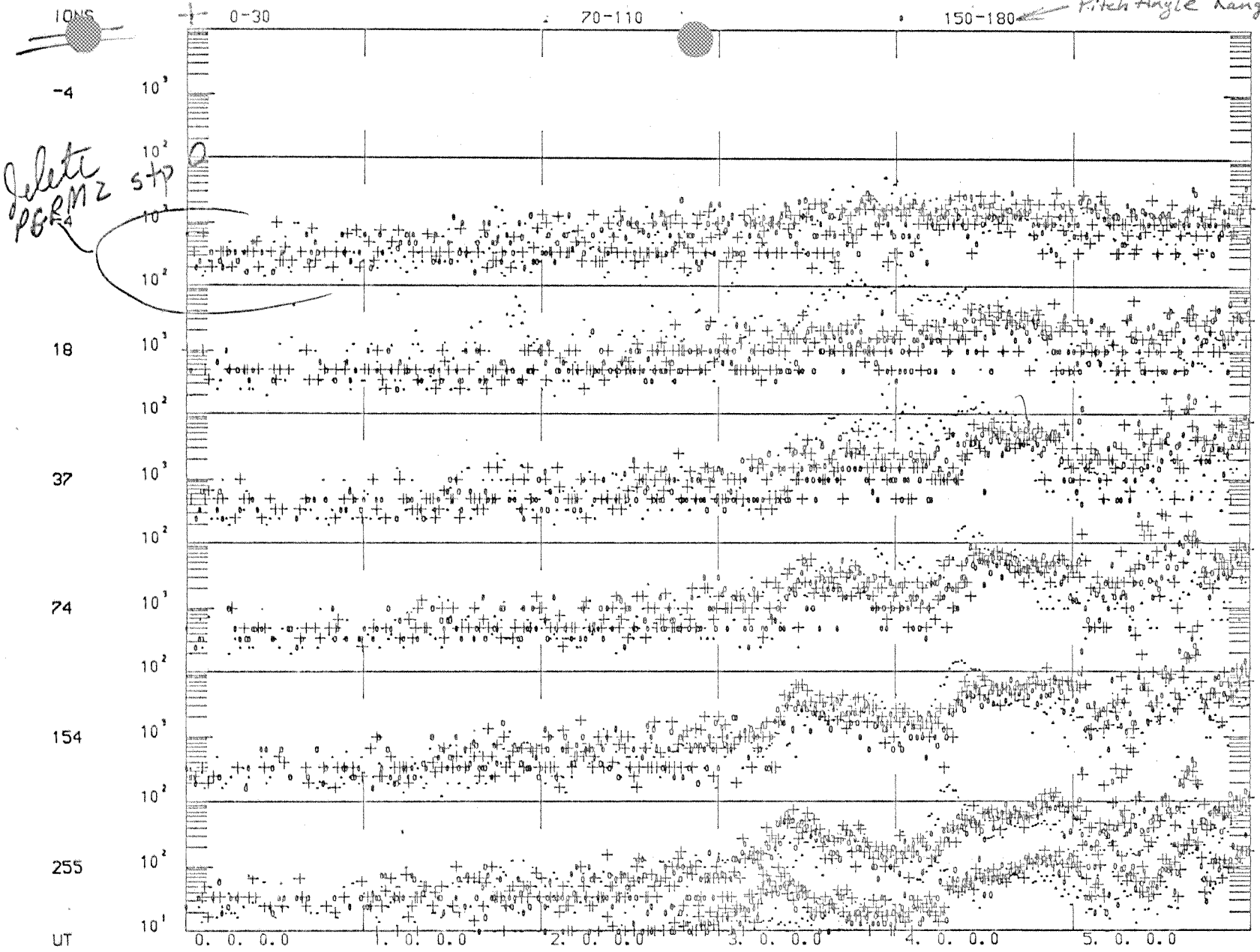
UT	0. 0. 0.0	1. 0. 0.0	2. 0. 0.0	3. 0. 0.0	4. 0. 0.0	5. 0. 0.0
UTSEC	0.0	3600.0	7200.0	10800.0	14400.0	18000.0
MLT	12.85	13.81	14.90	16.14	17.52	19.03
B(GAMMA)	107.63	119.98	133.61	149.06	168.31	182.77
L(ER)	6.60	6.39	6.19	5.98	5.74	5.56
ALT(ER)	5.85	5.54	5.21	4.88	4.61	4.41



SCATHA-SC2
FEB 12
REV 11.20
DAY 43
YEAR 1979

	LAT	LON	ALT(KM)	MLAT
3410	7.43	200.26	37302	7.48
4520	7.85	199.71	35279	7.78
5900	7.74	200.68	33163	7.86
8200	6.92	203.42	31115	7.59
10950	5.26	207.97	29345	6.85
14400	2.78	214.13	28092	5.59

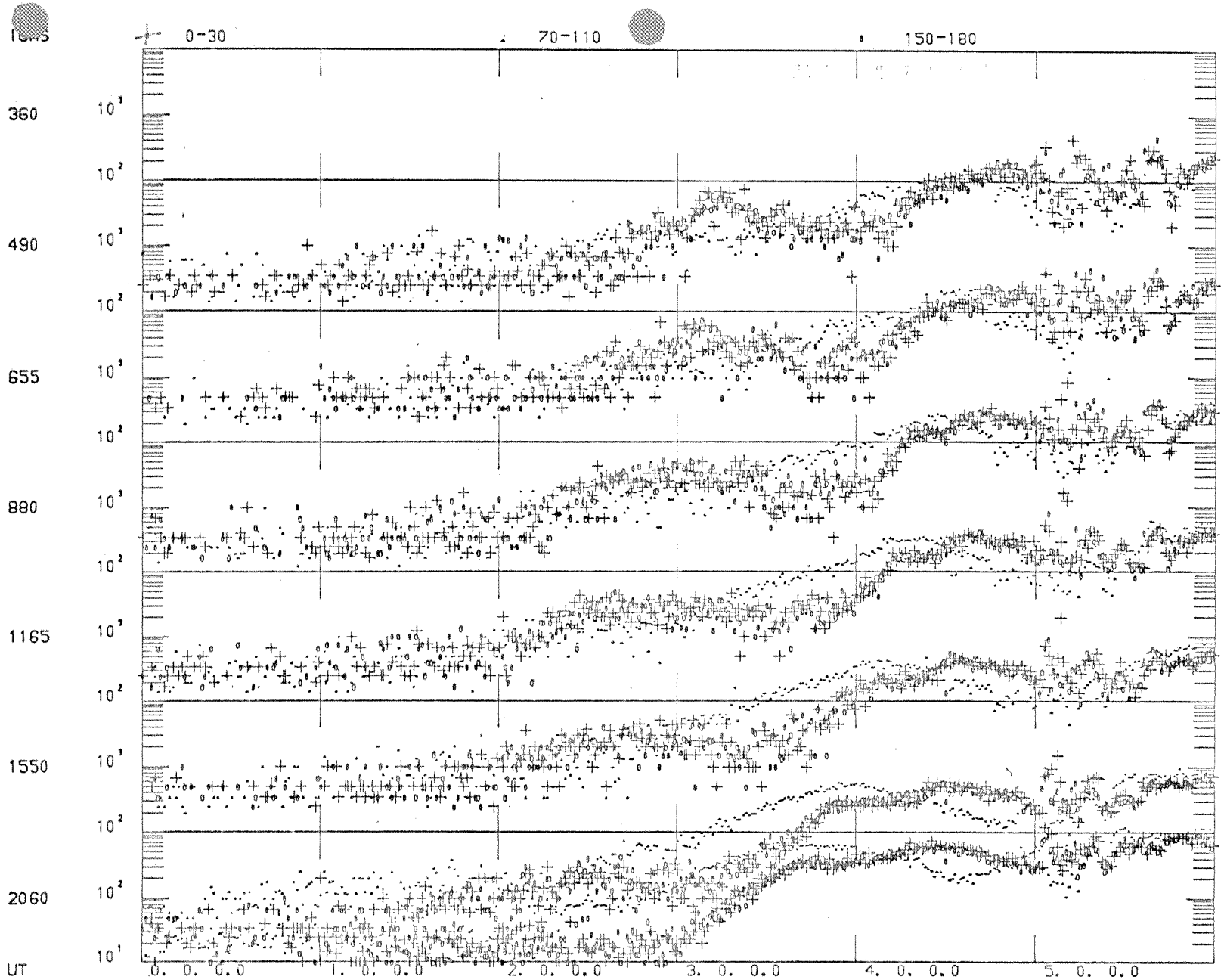
UT	0. 0. 0.0	1. 0. 0.0	2. 0. 0.0	3. 0. 0.0	4. 0. 0.0	5. 0. 0.0
UTSEC	0.0	3600.0	7200.0	10800.0	14400.0	18000.0
MLT	12.85	13.81	14.90	16.14	17.52	19.03
B(GAMMA)	107.63	119.98	133.61	149.06	168.31	182.77
L(ER)	6.60	6.39	6.19	5.98	5.74	5.56
ALT(ER)	5.85	5.54	5.21	4.88	4.61	4.41



Kennel

Delete PGRM2 stp 4

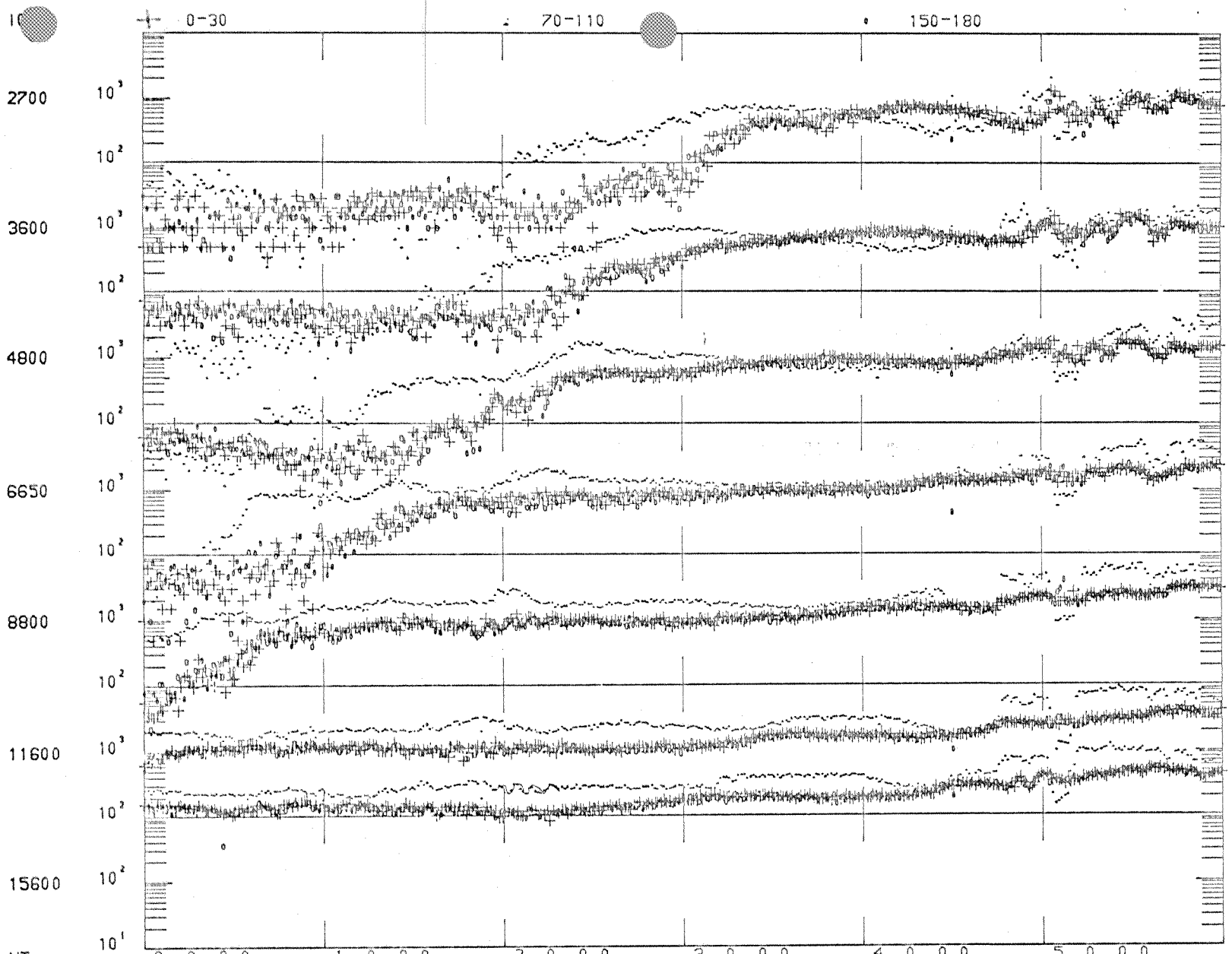
A2



SCATHA-SC2
FEB 12
REV 11.20
DAY 43
YEAR 1979

	LAT	LON	ALT(KM)	MLAT
360	7.43	200.26	37302	7.48
490	7.85	199.71	35279	7.78
655	7.74	200.68	33163	7.86
880	6.92	203.42	31115	7.59
1165	5.26	207.97	29345	6.85
1550	2.78	214.13	28092	5.59

UT	0. 0. 0.0	1. 0. 0.0	2. 0. 0.0	3. 0. 0.0	4. 0. 0.0	5. 0. 0.0
UTSEC	0.0	3600.0	7200.0	10800.0	14400.0	18000.0
MLT	12.85	13.81	14.90	16.14	17.52	19.03
B(GAMMA)	107.63	119.98	133.61	149.06	168.31	182.77
L(ER)	6.60	6.39	6.19	5.98	5.74	5.56
ALT(ER)	5.85	5.54	5.21	4.88	4.61	4.41

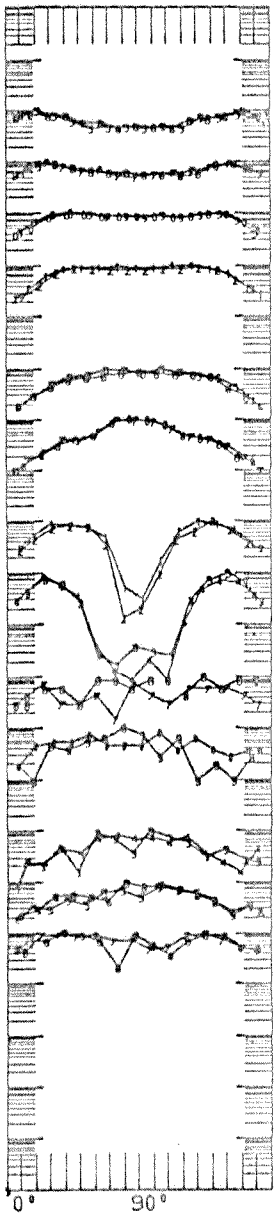


SC[illegible]A-SC2
FEB 12
REV 11.20
DAY 43
YEAR 1979

LAT						
	7.43					
	7.85					
	7.74					
	6.92					
	5.26					
	2.78					
LON						
	200.26					
	199.71					
	200.68					
	203.42					
	207.97					
	214.13					
ALT(KM)						
	37302					
	35279					
	33163					
	31115					
	29345					
	28092					
MLAT						
	7.48					
	7.78					
	7.86					
	7.59					
	6.85					
	5.59					

UT	0. 0. 0.0	1. 0. 0.0	2. 0. 0.0	3. 0. 0.0	4. 0. 0.0	5. 0. 0.0
UTSEC	0.0	3600.0	7200.0	10800.0	14400.0	18000.0
MLT	12.85	13.81	14.90	16.14	17.52	19.03
B(GAMMA)	107.63	119.98	133.61	149.06	168.31	182.77
L(ER)	6.60	6.39	6.19	5.98	5.74	5.56
ALT(ER)	5.85	5.54	5.21	4.88	4.61	4.41

ELECTRONS E FLUX F(V) 25OCT1979 DAY 298 IONS E FLUX F(V)



ELECTRONS			IONS
.017KEV			.018KEV
.040KEV			.037KEV
.087KEV	.2363E+09	.4390E+03	.074KEV .9510E+07 .7003E+08
.187KEV	.2065E+09	.1785E+03	.154KEV .8124E+06 .2875E+07
.316KEV	.1619E+09	.8279E+02	.255KEV .7359E+06 .1573E+07
.446KEV	.1482E+09	.5372E+02	.360KEV .3910E+06 .5918E+06
.612KEV			.490KEV
.815KEV	.5709E+08	.1132E+02	.655KEV .4059E+06 .3377E+06
1.090KEV	.5596E+08	.8299E+01	.880KEV .3732E+06 .2311E+06
1.440KEV			1.165KEV
1.940KEV	.1439E+08	.1199E+01	1.550KEV .3632E+06 .1277E+06
2.580KEV	.5610E+07	.3515E+00	2.060KEV .3492E+06 .9237E+05
3.410KEV			2.700KEV
4.520KEV	.9418E+05	.3368E-02	3.600KEV .3606E+06 .5458E+05
5.900KEV	.1134E+06	.3106E-02	4.800KEV .4007E+06 .4549E+05
8.200KEV			6.650KEV
10.950KEV	.1388E+06	.2050E-02	8.800KEV .3519E+06 .2179E+05
14.400KEV	.1309E+06	.1470E-02	11.600KEV .3020E+06 .1419E+05
19.400KEV	.7837E+05	.6530E-03	15.600KEV .3158E+06 .1103E+05

SC2-3 SC11 B-FIELD

L	7.284	7.281
UT	60248.42	60306.67
MLT	21.136	21.151
ALT	37164.93	37133.29
B-FIELD	39.80	37.55

ELECTRONS/CM**2-SEC-STER-KEV

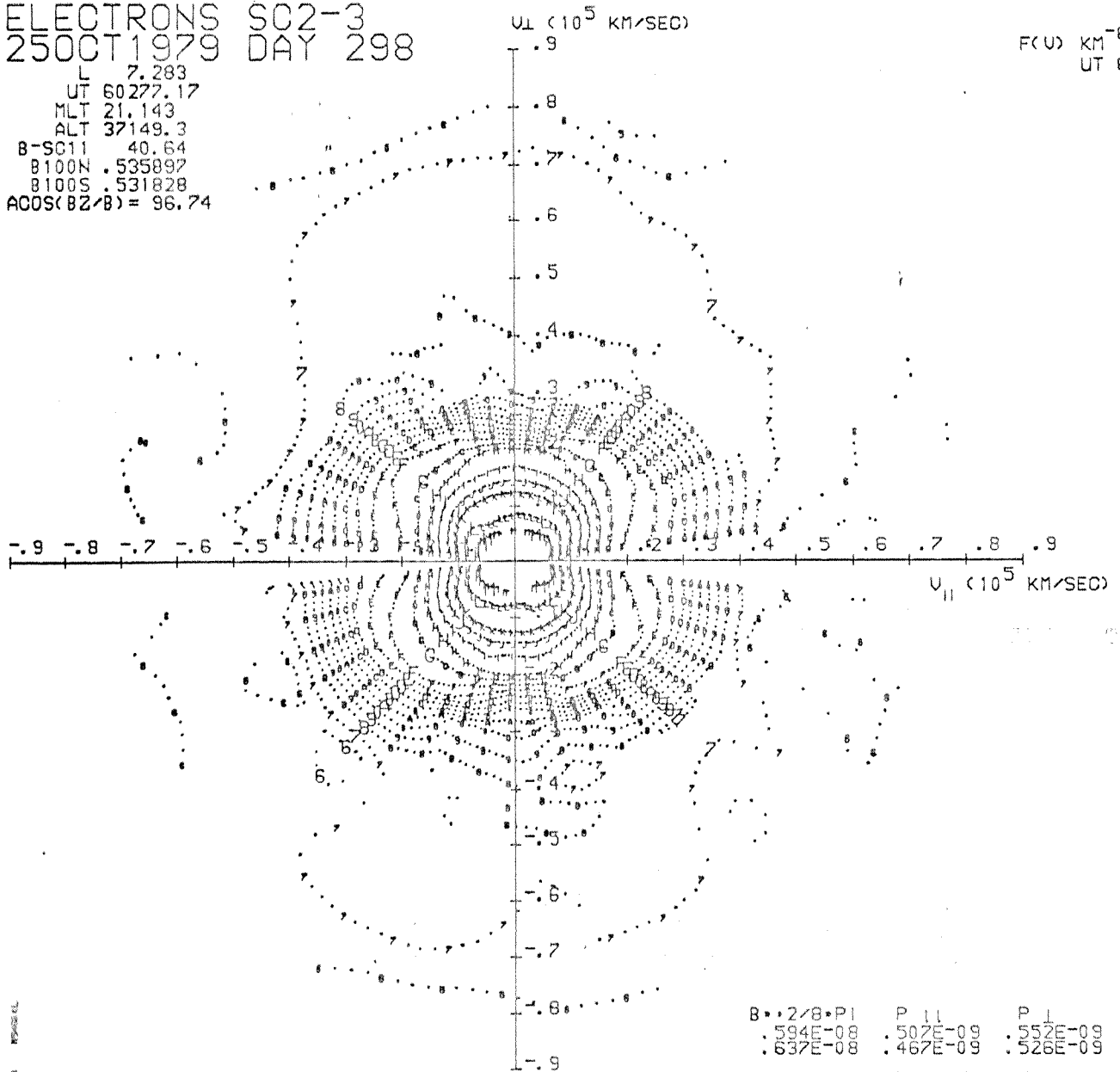
IONS/CM**2-SEC-STER-KEV

0° 90°

PITCH ANGLE(DEG)

A3

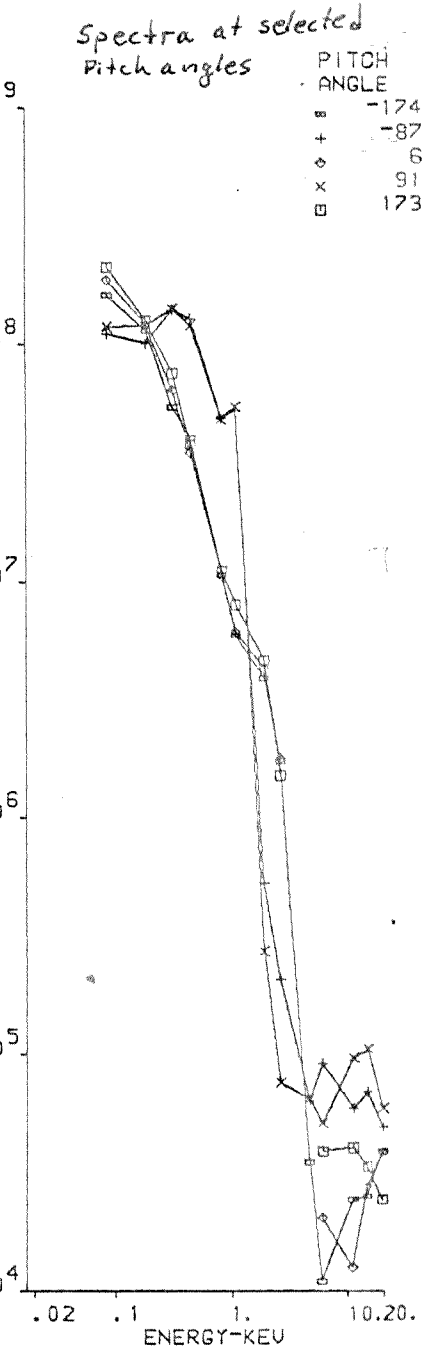
These Iso f(v) contours in Velocity space were generated from the pitch angle plots in A3



F(V) KM^{-6}-SEC^3
UT 60248.42 60306.67

1	.100E-04
2	.215E-04
3	.464E-04
4	.100E-03
5	.215E-03
6	.464E-03
7	.100E-02
8	.215E-02
9	.464E-02
0	.100E-01
A	.215E-01
B	.464E-01
C	.100E+00
D	.215E+00
E	.464E+00
F	.100E+01
G	.215E+01
H	.464E+01
I	.100E+02
J	.215E+02
K	.464E+02
L	.100E+03
M	.215E+03
N	.464E+03
O	.100E+04
P	.215E+04
Q	.464E+04
R	.100E+05
S	.215E+05
T	.464E+05
U	.100E+06
V	.215E+06
W	.464E+06
X	.100E+07
Y	.215E+07
Z	.464E+07
◻	.100E+08
+	.215E+08
◇	.464E+08
×	.100E+09
⊠	.215E+09
⊞	.464E+09
⊡	.100E+10

Spectra at selected Pitch angles



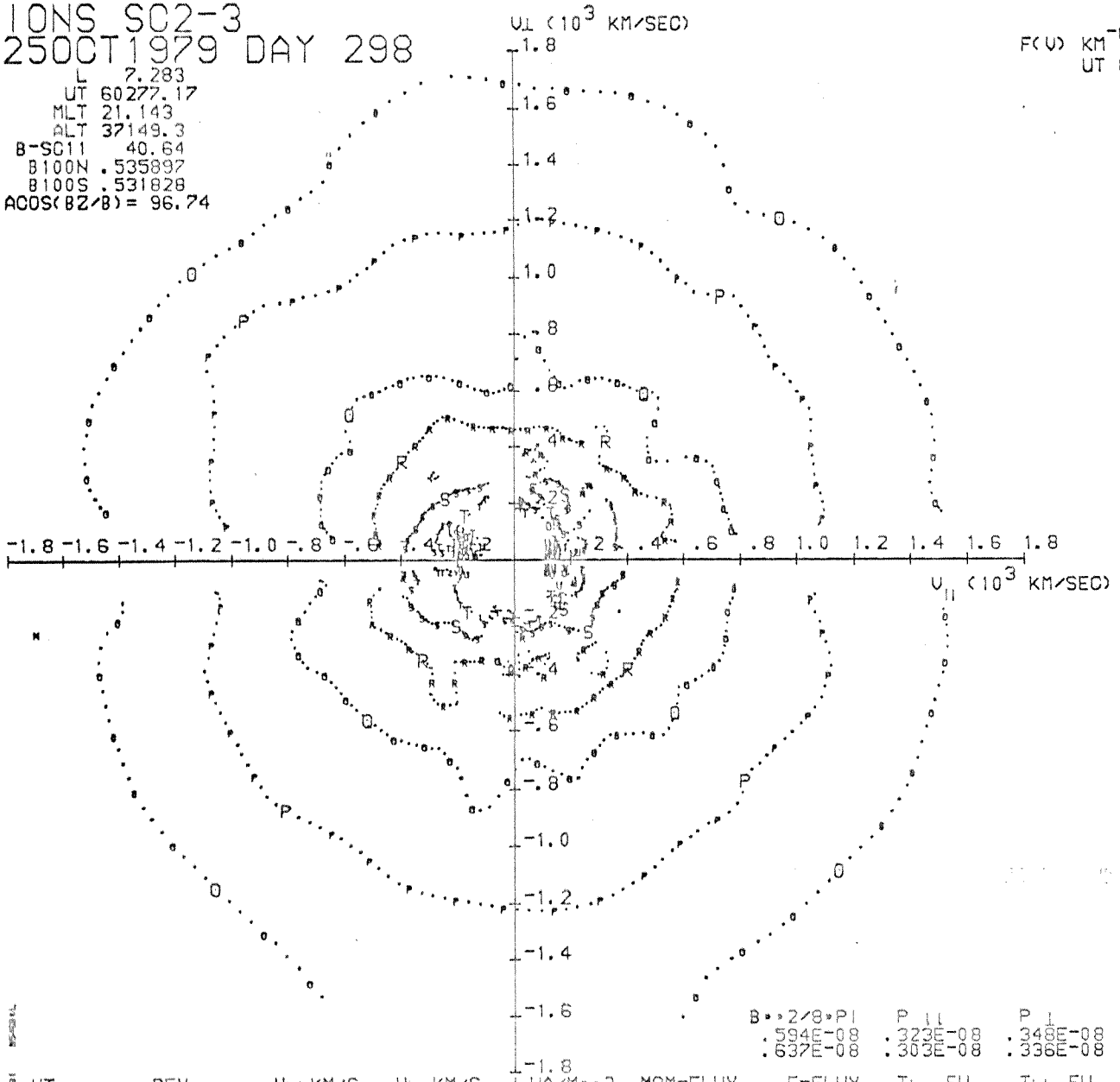
UT	DEN	V|| KM/S	V⊥ KM/S	J UA/M**2	MOM-FLUX	E-FLUX	T⊥ EV	T|| EV	E-DEN	HEAT-FLUX
60262.98	.106E+01	-.896E+01	.134E+05	-.153E-02	-.410E-11	-.138E-01	.324E+03	.298E+03	.806E-09	-.150E-01
60292.11	.103E+01	-.487E+03	.131E+05	.801E-01	-.512E-10	-.601E-01	.320E+03	.284E+03	.760E-09	-.272E-03

B**2/8*PI	P||	P⊥	BETA||	BETA⊥
.594E-08	.502E-09	.552E-09	.853E-01	.930E-01
.637E-08	.467E-09	.526E-09	.733E-01	.825E-01

A4

IONS SC2-3
25OCT1979 DAY 298

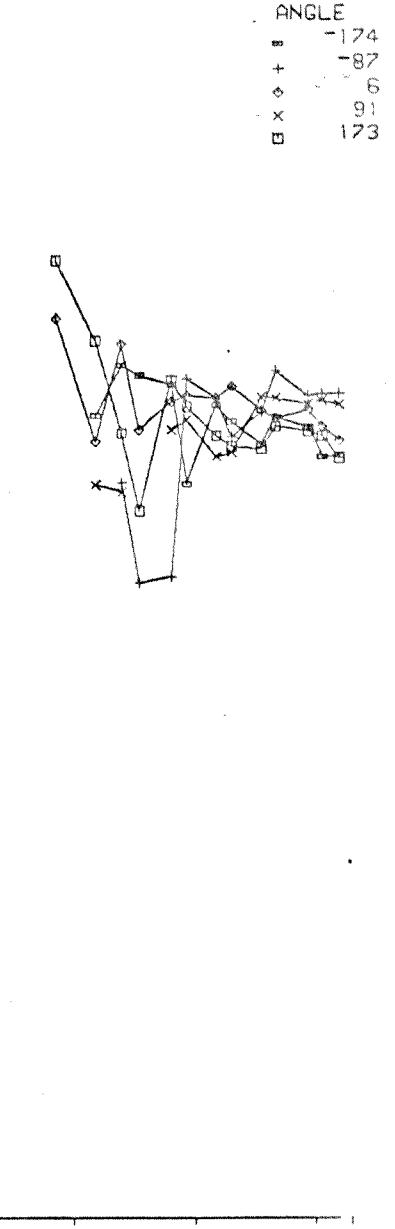
L 7.283
UT 60277.17
MLT 21.143
ALT 37149.3
B-SC11 40.64
B100N .535897
B100S .531828
ACOS(BZ/B)= 96.74



F(V) KM^-6-SEC^3
UT 60248.42 60306.67

1	.100E-03
2	.215E-03
3	.464E-03
4	.100E-02
5	.215E-02
6	.464E-02
7	.100E-01
8	.215E-01
9	.464E-01
0	.100E+00
A	.215E+00
B	.464E+00
C	.100E+01
D	.215E+01
E	.464E+01
F	.100E+02
G	.215E+02
H	.464E+02
I	.100E+03
J	.215E+03
K	.464E+03
L	.100E+04
M	.215E+04
N	.464E+04
O	.100E+05
P	.215E+05
Q	.464E+05
R	.100E+06
S	.215E+06
T	.464E+06
U	.100E+07
V	.215E+07
W	.464E+07
X	.100E+08
Y	.215E+08
Z	.464E+08
◇	.100E+09
×	.215E+09
⋈	.464E+09
⋈	.100E+10
+	.215E+10
⋈	.464E+10
□	.100E+11

PITCH ANGLE
□ -174
+ -87
◇ 6
× 91
□ 173



UT	DEN	V|| KM/S	V⊥ KM/S	J UA/M**2	MOM-FLUX	E-FLUX	T⊥ EV	T|| EV	E-DEN	HEAT-FLUX
60262.98	.514E+00	-.102E+02	.882E+03	-.838E-03	-.923E-10	-.672E-02	.423E+04	.393E+04	.510E-08	-.176E-02
60292.11	.496E+00	-.438E+02	.836E+03	-.348E-02	-.313E-09	-.239E-01	.423E+04	.382E+04	.489E-08	.108E-01

B**2/8*PI	P||	P⊥	BETA||	BETA⊥
.594E-08	.323E-08	.348E-08	.544E+00	.586E+00
.637E-08	.303E-08	.336E-08	.476E+00	.528E+00

A5

Participant: J. Fennell Data Set Mnemonic: SC06

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-06A

Data Set Name: SC2-3 Spacecraft Sheath Fields Detector

Principal Investigators: J. Fennell, Aerospace Corp.

Data Availability:

HH/DDD/HH/MM/SS	-	YY/DDD/HH/MM/SS
79/081/06/00/00		79/081/20/00/00
79/090/12/00/00		79/091/06/00/00

Data Time Interval: 3.5s

Description	Mnemonic	Units	Tuple
Electron Pitch Angle	SC06EPA	deg	
Electron Sun Angle	SC06ESA	deg	
Electron Flux in 1 ms Interval	SC06EFLX	#/cm2.s.sr.keV	
DECOMMUTATOR FOR ELECTRONS	SC06EDEC	none	
Electron Energy	SC06EEN	eV	
Pitch Angle for Ions	SC06IPA	deg	
Sun Angle for Ions	SC06ISA	deg	
Ion Flux	SC06IFL	#/cm2.s.sr.keV	
DECOMMUTATOR FOR IONS	SC06IDEC	none	
Ion Energy	SC06IEN	eV	

what are the E ranges of the channels

Participant: Fennell

Data Set Mnemonic: SC06

Decommutator Parameter Mnemonic: SC06EDEC, SC06IDEC

Brief Description of Decommutator:

The decommutator parameter contains the energy channel number (1-7) in bit 0, bit 1 contains the pitch angle, and bit 2 contains the sun angle.

Decommutator Word

Bit	0	1	2	3
	Energy Channel II	pitch angle	sun angle	not used

Parameters applicable to SC06EDEC;
SC06EEN, SC06EFLX

Parameters applicable to SC06IDEC;
SC06IEN, SC06IFL

Logicon Mnemonic	Applicable Parameter Mnemonic	Energy Channel Number	Pitch Angle	Sun Angle
E1A	~~SC06EFL~~, SC06EEN ~~SC06EEN~~	1	150-180	-
E1B	" SC06IFL, SC06IEN	1	0-30	-
E2A — AS A	"	2	150-180	-
E2B " B		2	0-30	-
E3A " A	"	3	150-180	-
E3B " B	"	3	0-30	-
E4A " A	"	4	150-180	-
E4B " B	"	4	0-30	-
E5A " A	"	5	150-180	-
E5B " B	"	5	0-30	-
E6A " A	"	6	150-180	-
E6B " B	"	6	0-30	-
E7A " A	"	7	150-180	-
E7B " B	"	7	0-30	-

D-45317

F1 2/18/79 - 3/31/79

```
$JOB  9:36:37
$ASS IN MT2
$NOP ********* LIST OF TAPE X406 1ST. & LAST REC., FILE 1 **************
DATA IGNORED
DATA IGNORED
$EXE TPLIST BS

INPUT PARAMETERS ARE:  ED FL=1=1

 TAPE NO.   1            FILE NO.   1
 RECORD   1              LENGTH   4800
        10517.86   100.57   178.87 1    0    0    0    0    0    0    0       10518.86
  94.33   172.68 2    0    0    0    0    0    0    0         10519.86    88.09   165.99 3
     0    0    0    0    0    0    0    0       10520.86    81.85   159.27 1    0    0    0
     0    0    0    0       10521.86    75.63   152.55 2    0    0    0    0    0    0
     0       10522.86    69.44   145.83 3    0    0    0    0    0    0    0       10523.8
6    63.30   139.11 1    0    0   67   51   29   15   13       10524.86    57.23   132.
39 2    2   49   33  119   55   40   10       10525.86    51.25   125.67 1   35   62
 64   35   30   13   11       10526.86    45.43   118.94 2    4   42   37   98   38
29   15       10527.86    39.83   112.22 3    3   84   49   60   43   22   33      105
28.86    34.55   105.50 1   26   52   38   27   24   10    9       10529.86    29.78
 98.77 2    4   33   36   46   19   23    8       10530.86    25.80    92.05 3    4   13
2   60   55   23   16   24       10531.86    23.04    85.32 1   11   42   15   20   26
    7    8       10532.86    21.95    78.60 2    1   26   36   33   16   20    2
 10533.86    22.78    71.88 1   22   35   20   22   16    8    6       10534.86    25.34
    65.15 2    2   17   37   43   21   25    3       10535.86    29.18    58.43 3    3
  126   48   53   26   20   39       10536.86    33.86    51.71 1   21   39   30   17
  21    7    8       10537.86    39.08    44.98 2    5   36   35   75   40   35    6
     10538.86    44.65    38.26 3    6   69   39   80   57   32   46       10539.86    5
0.45    31.54 1   53   59   56   50   44   20   17       10540.86    56.40    24.82 2
   6   46   50  110   67   35   10       10541.86    62.46    18.10 1   49   87   73
45   46   20   14       10542.86    68.60    11.38 2    3   60   44  139   46   62   1
1       10543.86    74.78    4.70 3    4   79   41  108   77   38   82       10544.86
   81.00    2.25 1   71   72   56   47   42   23   11       10545.86    87.24    8.86
2    3   75   63  161   58   67   22       10546.86    93.49    15.57 3    2   40   27
  136   45   53   94       10547.86    99.72    22.28 1   77   83   33   51   50   18
  16       10548.86   105.94    29.00 2    6   61   55  157   50   44    9       10549.
86   112.13    35.73 1   72   70   65   45   37   21   12       10550.86   118.26   42
.45 2    8   45   40  117   56   43   14       10551.86   124.32    49.17 3    4   71
  38   85   52   26   67       10552.86   130.27    55.89 1   43   50   47   49   33
 19   12       10553.86   136.06    62.62 2    2   44   46   77   40   38   10      10
554.86   141.61    69.34 3    4   90   58   70   36   19   49       10555.86   146.80
   76.07 1   17   46   48   27   23   10   10       10556.86   151.43    82.79 2    6
31   38   49   22   24    6       10557.86   155.18    89.51 1   25   40   32   24    2
5   11   12       10558.86   157.60    96.24 2    4   26   23   37   18   27    6
  10559.86   158.23   102.96 3    4  203   72   34   29   13   25       10560.86   156.9
4   109.68 1   19   54   36   30   23    6   11       10561.86   154.00   116.41 2    6
   33   37   44   25   25    7       10562.86   149.90   123.13 3    1  149   69   54
   30   30   43       10563.86   145.05   129.85 1   26   54   41   31   25   14   10
     10564.86   139.71   136.58 2    3   49   37   76   38   43    6       10565.86    1
34.07   143.30 1   35   66   38   42   39   20   15       10566.86   128.21   150.02 2
   4   49   31  117   56   44   12       10567.86   122.22   156.74 3    2   79   39
104   61   32   69       10568.86   116.13   163.46 1   54   69   64   39   33   14
12       10569.86   109.98   170.16 2    6   62   59  150   55   52    8       10570.86
   103.78   176.78 3    6   47   39  117   58   40   74       10571.86    97.55   176.21
 1   65   76   54   27   51   20   21       10572.86    91.31   169.57 2    3   64    6
1  155   69   75   11       10573.86    85.06   162.86 1   74   62   34   53   47   13
   16       10574.86    78.83   156.15 2    1   84   63  141   49   57    8       10575
.86    72.62   149.43 3    6   55   43  126   62   48   65       10576.86    66.44   14
2.71 1   61   56   59   43   44   13   19

 TAPE NO.   1            FILE NO.   1
 RECORD   1051           LENGTH   640
```

```
 88.08      58.12 2      7      2      4      4     10      7     30          86399.69      94.42      42.85 3
     3    10      5      3      2      5     11          86400.69     100.75      49.58 1      1      5      2
    4     5     12      9          86401.69      107.07      56.30 2      3      3      4      2      6      5
   22          86402.69      113.36      63.03 3      3     11      7      4      1      4     10          86403.6
 9     119.60      69.76 1      4      3      3      3      6      4     14          86404.69      125.77      76.
 48 2      3      4      3      3      9      7     18

 ***** JOB DONE.
```

```
 $$
 $AVR CI 8
```

D-45317
F6 3/31/79

```
$JOB    9:39:14
$ASS IN MT2
$AVF IN 5
$NOP ************ LISTING OF TAPE X-406, 1ST. & LAST REC., FILE 6 ************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  ED FL=1=1

  TAPE NO.   1              FILE NO.   1
  RECORD     1              LENGTH   4800
           13.10     64.95    144.37 1     2     1     1     3     9    33    56          14.10
   59.95   138.11 2     2     4     4     4     5     9    25          15.10    54.97   131.85 1
       1     3     4    15     8    17    40          16.10    50.21   125.59 2     1     1     1
     1     4     7    28          17.10    45.77   119.33 1     3     4     2     7     6    28
    50          18.10    41.62   113.06 2     1     2     3     4     4    11    23          19.1
  0     37.86   106.79 1     5     1     6     8    10    25    43          20.10    34.88   100.
 53 2     1     1     2     2     4    10    31          21.10    32.75    94.26 1     2     1
    4     5     6    17    42          22.10    31.44    87.99 2     1     1     2     4     4
 14    30          23.10    31.29    81.73 1     2     1     3     6     6    31    40
 24.10    32.01    75.46 2     1     2     2     2     2    11    28          25.10    34.03
  69.19 1     4     1     3    11    13    24    51          26.10    36.86    62.93 2     1
 1     1     1     6    15    28          27.10    40.13    56.66 1     1     2     5     9    10
      22    42          28.10    44.11    50.40 2     1     1     2     2     6    10    20
     29.10    48.58    44.14 1     1     1     2     5     6    36    44          30.10    53.13
       37.88 2     1     1     1     2     3    12    34          31.10    58.04    31.63 1     1
     1     3     6     8    27    50          32.10    63.11    25.38 2     2     1     1     3
    4     9    37          33.10    68.13    19.16 1     1     1     4     5     7    41    62
          34.10    73.29    12.98 2     2     2     1     1     5    18    44          35.10     7
 8.68     6.98 1     2     3     4     8    12    42    56          36.10    83.85     2.75 2
    1     2     2     1     4    12    31          37.10    89.08     6.71 1     2     1     2
  9    18    31    52          38.10    94.45    12.70 2     1     2     1     3     4    17     4
 0          39.10    99.65    18.87 1     2     1     2     5    10    26    52          40.10
   104.87    25.09 2     1     2     1     2     3    14    32          41.10   110.02    31.34
 1     1     1     4     9     7    23    66          42.10   115.32    37.59 2     2     1     2
       2     4    10    36          43.10   120.10    43.85 1     1     2     1     6    10    31
     57          44.10   124.86    50.11 2     1     1     1     1     7    14    31          45.
 10   129.78    56.37 1     1     3     2     3     6    25    40          46.10   133.85    62
 .64 2     1     2     2     2     5     7    24          47.10   137.84    68.90 1     1     3
     2     6     7    26    38          48.10   141.40    75.17 2     1     5     3     1     5
  12    22          49.10   144.00    81.44 1     3     2     2     7    10    24    38
   50.10    145.95    87.70 2     1     1     1     2     5    16    26          51.10   146.89
    93.97 1     3     2     8     7    11    23    52          52.10   146.91   100.24 2     1
   2     1     5     6    18    34          53.10   145.78   106.50 1     3     2     3     6     1
 1     14    39          54.10   143.71   112.77 2     1     2     1     2     6     9    32
       55.10   140.76   119.04 1     2     3     4     9     7    22    44          56.10   137.3
 2   125.30 2     1     1     1     4     6     9    24          57.10   133.15   131.56 1     1
      3     2     8    12    19    42          58.10   128.76   137.82 2     1     1     3     2
     6    12    31          59.10   124.00   144.08 1     3     1     3     8    10    17    47
          60.10   119.10   150.32 2     1     1     1     2     6    10    40          61.10     1
 14.09    156.56 1     1     2     2     2     7    19    67          62.10   109.13   162.76 2
     1     1     1     3     4    18    37          63.10   103.79   168.90 1     2     1     2
    6     8    23    64          64.10    98.64   174.69 2     2     1     3     2     2    11
 43          65.10    93.24   176.56 1     1     1     1     4    20    24    53          66.10
      87.97   171.39 2     1     1     1     1     4    20    49          67.10    82.60   165.33
   1     1     1     3     7    12    28    65          68.10    77.48   159.15 2     1     1
 1     2     2    14    54          69.10    72.18   152.92 1     2     2     2     3    14    27
      61          70.10    66.85   146.68 2     1     1     1     1     4     9    34          71
 .10    61.76   140.43 1     1     1     3     3     9    30    53          72.10    56.82    13
 4.17 2     1     1     2     3     4    23    33

  TAPE NO.   1              FILE NO.   1
  RECORD  1119              LENGTH   1920
          86388.92    60.66    130.54 1     2     1     4    23    19    35    56          86389.92
```

1 4 8 17 24 42 60 86391.92 45.78 111.72 2 2 1 2
6 11 33 61 86392.92 41.12 105.44 1 2 3 11 17 32 47
71 86393.92 36.94 99.16 2 1 1 5 7 12 41 55 86394.9
2 33.33 92.89 1 1 7 10 20 36 57 73 86395.92 30.55 86.
61 2 1 1 4 10 16 46 67 86396.92 28.72 80.34 1 5 5
6 26 54 94 94 86397.92 27.99 74.06 2 1 1 10 10 14
37 64 86398.92 28.55 67.78 1 7 8 9 26 40 79 76 863
99.92 30.36 61.51 2 3 2 5 3 16 54 56 86400.92 33.02
55.23 1 1 5 6 19 38 48 74 86401.92 36.54 48.96 2 1
2 2 4 11 50 56 86402.92 40.45 42.68 1 1 5 6 12 26
42 52 86403.92 45.16 36.41 2 1 1 3 3 6 26 48
86404.92 50.02 30.14 1 3 4 4 9 20 46 85 86405.92 55.18
23.88 2 1 1 2 3 7 31 47 86406.92 60.33 17.63 1 1
2 5 10 20 43 62 86407.92 65.61 11.40 2 2 1 2 2
8 19 43 86408.92 71.05 5.30 1 4 3 6 7 13 56 66
86409.92 76.44 2.26 2 1 2 2 4 8 31 69 86410.92 8
1.82 7.81 1 2 2 5 10 7 39 76 86411.92 87.45 13.99 2
1 1 1 1 6 35 53

***** JOB DONE.

D-45318

4/1/79

INPUT PARAMETERS ARE: ED FL=1=1 4

TAPE NO. 1 FILE NO. 1
RECORD 1 LENGTH 4800

12.92 92.97 21.03 1 96 213 366 461 692 582 398 13.92
98.43 27.23 2 2 31 152 307 411 746 432 14.92 103.76 33.54 1
76 180 347 520 696 550 336 15.92 109.14 39.80 2 4 26 145
304 407 680 411 16.92 114.57 46.07 1 66 202 306 510 708 568
312 17.92 120.01 52.33 2 3 32 138 226 480 620 367 18.9
2 125.21 58.60 1 82 232 311 580 650 458 316 19.92 130.08 64.
87 2 2 30 145 262 598 534 332 20.92 135.05 71.14 1 57 178
328 564 532 396 293 21.92 139.35 77.41 2 1 31 149 241 596 4
87 333 22.92 143.26 83.67 1 64 210 265 518 483 384 295
23.92 146.38 89.94 2 2 21 160 210 532 475 285 24.92 148.78
96.21 1 60 200 297 507 475 343 274 25.92 150.05 102.48 2 3 2
7 146 206 512 463 301 26.92 150.39 108.75 1 76 184 276 494 489
395 262 27.92 149.30 115.01 2 1 26 161 195 524 476 317
28.92 147.19 121.28 1 63 198 280 463 502 372 282 29.92 144.37
127.55 2 2 28 153 216 528 480 359 30.92 140.67 133.81 1 54
184 278 526 506 422 315 31.92 136.57 140.08 2 1 31 143 227
564 554 352 32.92 132.07 146.34 1 74 191 262 606 534 415 306
33.92 127.15 152.59 2 1 24 133 258 518 586 363 34.92 12
2.21 158.84 1 61 161 275 600 660 493 330 35.92 116.94 165.07 2
2 28 134 266 478 656 382 36.92 111.83 171.24 1 66 211 340 5
76 710 530 320 37.92 106.31 176.98 2 1 27 146 315 413 678 43
5 38.92 100.87 175.50 1 73 189 337 486 694 612 366 39.92
95.41 169.51 2 1 21 119 294 460 754 456 40.92 89.69 163.31
1 58 202 342 502 720 564 344 41.92 84.24 157.08 2 2 34 149
295 516 760 450 42.92 78.99 150.82 1 83 195 374 501 706 540
331 43.92 73.69 144.57 2 1 25 108 295 449 694 448 44.
92 68.32 138.30 1 78 181 332 495 702 509 334 45.92 63.18 132
.04 2 1 28 139 279 435 634 404 46.92 58.10 125.77 1 75 155
315 624 596 477 315 47.92 53.27 119.51 2 2 23 130 222 534
598 385 48.92 48.44 113.24 1 70 163 273 582 570 433 308
49.92 43.98 106.97 2 3 20 118 213 540 524 347 50.92 39.79
100.70 1 68 155 225 498 506 373 292 51.92 36.13 94.44 2 3
24 118 189 528 516 330 52.92 32.95 88.17 1 51 166 225 425 44
9 341 280 53.92 30.79 81.90 2 1 25 106 196 474 461 301
54.92 29.69 75.63 1 57 161 245 429 448 364 303 55.92 29.5
5 69.36 2 1 20 124 188 461 498 291 56.92 30.70 63.10 1 71
144 279 430 495 383 277 57.92 32.96 56.83 2 2 18 111 175
466 492 306 58.92 35.90 50.56 1 61 146 243 459 498 399 275
59.92 39.55 44.30 2 1 15 99 209 536 501 343 60.92
43.79 38.03 1 60 193 225 562 562 387 281 61.92 48.57 31.77 2
2 15 100 226 508 568 364 62.92 53.31 25.51 1 64 177 290
602 568 442 290 63.92 58.32 19.26 2 2 17 125 276 451 630 3
48 64.92 63.51 13.04 1 74 185 303 576 624 474 339 65.92
68.81 6.89 2 1 23 126 322 398 692 395 66.92 74.29 1.89
1 58 178 379 474 676 526 358 67.92 79.73 6.19 2 2 25 11
9 316 429 690 465 68.92 85.17 12.32 1 67 201 387 464 680 616
378 69.92 90.54 18.54 2 1 23 140 314 459 814 465 70
.92 96.01 24.79 1 80 170 401 455 754 568 369 71.92 101.39 3
1.05 2 1 24 101 329 422 700 398

TAPE NO. 1 FILE NO. 1
RECORD 1411 LENGTH 3200

86372.74 56.75 30.87 1 240 408 422 488 357 395 352 86373.74
62.33 24.59 2 1 134 362 391 423 335 378 86374.74 68.06 18.32 1
224 414 408 404 316 410 345 86375.74 73.52 12.06 2 2 144 357
446 496 319 409 86376.74 79.14 5.82 1 252 418 460 472 301 452
434 86377.74 84.76 1.10 2 1 144 388 481 459 296 403 86378.7
4 90.43 6.88 1 270 447 493 463 299 483 403 86379.74 96.02 13.
13 2 1 157 388 467 467 334 392 86380.74 101.59 19.39 1 288 433
496 423 323 479 386 86381.74 107.18 25.66 2 1 165 378 473 475 3

65.74 115.10 38.21 2 2 182 400 455 466 314 352 86384.74 123.35
44.49 1 307 456 489 487 374 350 330 86385.74 128.38 50.76 2 1 19
2 413 456 546 300 285 86386.74 133.26 57.04 1 323 440 522 602 303
333 330 86387.74 138.12 63.32 2 1 207 422 448 776 274 281
86388.74 142.55 69.59 1 338 427 504 410 249 307 319 86389.74 146.52
75.87 2 2 229 428 387 550 208 265 86390.74 149.73 82.15 1 374
431 582 359 220 260 295 86391.74 152.15 88.42 2 2 213 441 374
444 188 260 86392.74 153.43 94.70 1 322 396 696 341 230 250 282
86393.74 153.40 100.98 2 3 269 411 371 426 227 287 86394.74 15
2.11 107.25 1 338 396 628 347 246 267 278 86395.74 149.48 113.53 2
2 251 431 422 520 203 281 86396.74 146.25 119.81 1 344 421 580 4
09 257 285 304 86397.74 142.16 126.08 2 3 207 443 424 720 238 26
9 86398.74 137.70 132.36 1 359 456 532 528 314 330 301 86399.74
132.80 138.63 2 3 203 411 447 616 312 314 86400.74 127.99 144.91
1 330 466 510 624 368 363 346 86401.74 122.64 151.18 2 1 139 363
412 435 351 350 86402.74 117.18 157.45 1 303 439 443 475 432 379
366 86403.74 111.65 163.72 2 2 158 415 442 518 365 368 86404.
74 106.03 169.97 1 277 447 451 530 328 417 406 86405.74 100.43 176
.15 2 2 149 408 472 492 345 430 86406.74 94.61 177.18 1 271 449
472 487 369 442 390 86407.74 88.94 171.06 2 2 141 383 465 502
352 454 86408.74 83.14 164.81 1 300 461 461 464 415 457 444 86
409.74 77.45 158.55 2 1 142 429 452 487 334 411 86410.74 71.57
152.28 1 291 431 453 524 343 459 372 86411.74 65.96 146.00 2 1 1
50 401 464 548 380 345

TAPE NO. 1 FILE NO. 2
RECORD 1 LENGTH 4800
12.92 92.97 21.03 1 2 1 7 12 18 41 80 13.92
98.43 27.28 2 1 1 3 5 5 15 60 14.92 103.76 33.54 1
2 2 6 6 18 31 72 15.92 109.14 39.80 2 2 1 1
5 5 25 44 16.92 114.57 46.07 1 1 1 7 7 18 59
66 17.92 120.01 52.33 2 1 3 1 4 9 23 49 18.9
2 125.21 58.60 1 3 1 3 17 22 45 57 19.92 130.08 64.
87 2 1 1 3 3 9 45 56 20.92 135.05 71.14 1 2 3
4 25 19 41 75 21.92 139.35 77.41 2 1 3 3 6 17
38 60 22.92 143.26 83.67 1 6 4 8 17 29 52 79
23.92 146.38 89.94 2 1 2 2 6 13 41 64 24.92 148.78
96.21 1 3 3 8 24 40 61 83 25.92 150.05 102.48 2 2
6 5 9 20 38 73 26.92 150.39 108.75 1 4 7 13 20 44
69 71 27.92 149.30 115.01 2 1 2 5 6 18 57 83
28.92 147.19 121.28 1 1 11 9 25 42 61 75 29.92 144.37
127.55 2 1 1 8 6 23 40 76 30.92 140.67 133.81 1 2
13 7 28 32 58 82 31.92 136.57 140.08 2 1 1 5 6
13 44 83 32.92 132.07 146.34 1 4 10 4 12 18 31 83
33.92 127.15 152.59 2 2 1 5 4 15 32 40 34.92 12
2.21 158.84 1 3 3 7 9 18 32 75 35.92 116.94 165.07 2
1 3 3 4 7 23 47 36.92 111.83 171.24 1 2 1 6
18 18 35 55 37.92 106.31 176.98 2 1 1 4 4 6 23 4
8 38.92 100.87 175.50 1 1 3 4 15 11 28 81 39.92
95.41 169.51 2 3 1 1 2 13 15 56 40.92 89.69 163.31
1 3 5 5 10 16 42 81 41.92 84.24 157.08 2 1 2 2
3 5 24 41 42.92 78.99 150.82 1 5 1 3 13 18 40
79 43.92 73.69 144.57 2 1 1 5 4 2 32 51 44.
92 68.32 138.30 1 1 2 3 10 16 42 84 45.92 63.18 132
.04 2 1 2 2 6 10 31 49 46.92 58.10 125.77 1 1 3
3 12 34 44 82 47.92 53.27 119.51 2 1 1 1 2 7
30 56 48.92 48.44 113.24 1 3 4 4 11 25 48 74
49.92 43.98 106.97 2 1 1 3 7 17 55 48 50.92 39.79
100.70 1 1 4 12 22 28 53 71 51.92 36.13 94.44 2 1
2 6 10 22 53 62 52.92 32.95 88.17 1 3 8 17 42 3
4 61 87 53.92 30.79 81.90 2 1 2 5 15 22 72 66
54.92 29.69 75.63 1 4 11 16 17 44 73 82 55.92 29.5
5 69.36 2 1 1 3 9 16 52 78 56.92 30.70 63.10 1 2
12 17 24 34 68 75 57.92 32.96 56.83 2 1 2 4 12
11 31 73 58.92 35.90 50.56 1 2 5 11 22 26 60 112

```
[illegible]     [illegible] 1     2     6     6    15    21    46    95              61.92      48.57      31.77 2
  1     1     3     7     7    29    50              62.92      53.31      25.51 1     1     5     6
 10    23    33    75              63.92      58.32      19.26 2     2     1     1     2    11    22
59              64.92      63.51      13.04 1     1     1     6     5    19    60    60              65.92
     68.81       6.89 2     2     1     1     6    10    36    53              66.92      74.29       1.89
 1     1     1     7     7    16    28    69              67.92      79.73       6.19 2     1     2
1     3     6    25    51              68.92      85.17      12.32 1     2     3     2     9    14    27
   100              69.92      90.54      18.54 2     1     3     2     5     5    16    50              70
.92      96.01      24.79 1     2     2     2     6    14    39    85              71.92     101.39       3
1.05 2     1     1     2     3     9    23    62

 TAPE NO.   1                FILE NO.   2
 RECORD   1411               LENGTH   3200
        86372.74      56.75      30.87 1     9     9    17    36    52   158   193              86373.74
  62.33      24.59 2     1     1     4     7    18    50   211              86374.74      68.06      18.32 1
     1     4     8    38    53   141   244              86375.74      73.52      12.06 2     1     2     3
   5    19    66   167              86376.74      79.14       5.82 1     3     4     5    22    67   142
195          86377.74      84.76       1.10 2     1     1     4     4    17    67   151              86378.7
4      90.43       6.88 1     5     3     6    20    45   131   214              86379.74      96.02      13.
13 2     1     2     5     6    17    62   157              86380.74     101.59      19.39 1     4     2
  6    31    58   142   203              86381.74     107.18      25.66 2     1     2     2     8    23
74   180          86382.74     112.70      31.94 1     2     4     9    25    53   166   220              863
83.74     118.10      38.21 2     1     1     7    14    16    68   202              86384.74     123.35
 44.49 1     5     6    15    39    51   182   208              86385.74     128.38      50.76 2     1
3    12    13    24    86   193              86386.74     133.26      57.04 1     4     8    15    37    63
   187   146          86387.74     138.12      63.32 2     1     2    13    16    27    82   190
 86388.74     142.55      69.59 1     6    12    16    42    81   209    99              86389.74     146.52
     75.87 2     1     1     9    11    44    91   187              86390.74     149.73      82.15 1     8
   11    25    42    85   205    88              86391.74     152.15      88.42 2     1     2     6    23
 37    88   200          86392.74     153.43      94.70 1     3     6    27    47    63   181    95
      86393.74     153.40     100.98 2     1     4     6    21    36    98   189              86394.74      15
2.11     107.25 1     5     8    19    45    79   173   126              86395.74     149.48     113.53 2
  1     1     5    18    31    84   180              86396.74     146.25     119.81 1     6     9    16
36    83   169   113              86397.74     142.16     126.08 2     1     1     3     9    34    89    18
0          86398.74     137.70     132.36 1     4     6    10    34    74   182   160              86399.74
   132.80     138.63 2     1     2     2     5    23    75   234              86400.74     127.99     144.91
1     1    12     5    21    50   149   197              86401.74     122.64     151.18 2     1     2     4
     5    15    81   178              86402.74     117.18     157.45 1     1     4     8    19    52   112
  189          86403.74     111.65     163.72 2     1     2     2     6    17    88   131              86404.
74     106.03     169.97 1     4     1     7    22    49   126   195              86405.74     100.43     176
.15 2     1     1     7     2    14    75   141              86406.74      94.61     177.18 1     3     1
   4    15    42   104   202              86407.74      88.94     171.06 2     2     1     4     3    14
 62   156          86408.74      83.14     164.81 1     2     3     7    39    48   105   213              86
409.74      77.45     158.55 2     2     1     3     5    16    60   159              86410.74      71.57
 152.28 1     4     4     5    27    54   120   208              86411.74      65.96     146.00 2     1
 1     2     4    20    58   142

 TAPE NO.   1                FILE NO.   3
 RECORD   1                  LENGTH   4800
          12.55      93.16     173.60 1   204   444   360   272   327   487   309              13.55
  87.41     167.33 2     1    96   359   497   291   387   369              14.55      81.77     161.05 1
   227   463   381   268   312   415   324              15.55      75.94     154.78 2     3   101   341
   444   301   353   435              16.55      70.50     148.50 1   259   456   294   228   278   518
 279          17.55      64.85     142.23 2     2    94   350   320   225   325   334              18.5
5      59.26     135.96 1   241   418   206   163   296   422   283              19.55      53.91     129.
68 2     2   115   299   229   195   344   333              20.55      48.40     123.41 1   249   347
 149   215   327   372   244              21.55      43.16     117.13 2     3   118   267   179   218     3
 10   233          22.55      38.36     110.86 1   239   258   126   328   321   329   185
23.55      33.58     104.58 2     1    86   248   120   258   286   227              24.55      29.45
 98.31 1   231   196   108   349   241   297   193              25.55      25.97      92.03 2     1     9
6   201   113   295   266   204              26.55      23.78      85.76 1   174   185   120   300   210
   267   170          27.55      22.93      79.49 2     3    94   206    97   306   243   216
   28.55      23.45      73.21 1   185   155   106   324   256   265   182              29.55      25.62
    66.94 2     1    87   226   118   297   294   243              30.55      29.03      60.66 1   204
   220   117   389   235   297   171              31.55      33.08      54.39 2     2   113   251   134
```

4/3/79

```
   33.55      42.72      41.64 2     2   111   297   193   222   321   291            34.55    4
7.83     35.57 1   237   308   164   250   329   384   229             35.55      53.30      29.29 2
  1   124   355   262   194   382   327             36.55      58.76      23.02 1   225   383   269    1
72   317   407   222             37.55      64.32      16.74 2     2    91   353   352   297   330   37
3            38.55      70.20      10.47 1   228   431   320   275   224   428   343            39.55
   75.75       4.19 2     1   111   315   479   337   349   460            40.55      81.30       2.08
1   237   407   405   332   301   444   311            41.55      87.10       8.36 2     2    91   357
   461   369   368   425            42.55      92.98      14.63 1   264   471   439   372   317   452
  280            43.55      98.60      20.90 2     1   108   393   457   315   330   432            44.
55    104.43      27.18 1   249   439   434   297   288   454   308            45.55     110.07     33
.45 2     1    94   370   398   295   342   440            46.55     115.70      39.73 1   241   416
 336   211   248   404   268            47.55     121.05      46.00 2     1   115   351   311   207
340   357            48.55     126.58      52.28 1   240   352   224   192   321   348   261
 49.55     132.04      58.55 2     1   105   293   220   200   320   305            50.55     137.15
  64.83 1   259   283   133   308   279   299   212            51.55     142.03      71.10 2     2    1
06   262   190   245   289   257            52.55     146.45      77.37 1   235   257   111   404   26
2   315   187            53.55     150.29      83.65 2     2   103   247   131   279   250   222
    54.55     153.08      89.92 1   209   206   123   336   245   278   170            55.55     155.0
3     96.20 2     2   131   259   111   333   239   227            56.55     155.59     102.47 1   229
  235   111   333   234   279   189            57.55     154.38     108.75 2     3   115   228   114
  330   261   238            58.55     152.11     115.02 1   208   196   101   400   246   271   193
        59.55     148.73     121.30 2     1   103   263   133   309   278   251            60.55    1
44.70     127.57 1   236   246   109   371   291   304   212            61.55     140.17     133.84 2
   1   123   285   159   251   292   263            62.55     135.32     140.12 1   269   294   142
291   314   324   199            63.55     130.01     146.39 2     2   122   331   257   198   363    3
10            64.55     124.90     152.67 1   274   350   220   227   315   356   248            65.55
   119.55     158.94 2     3    99   360   311   247   347   396            66.55     114.09     165.22
 1   242   424   361   266   266   428   325            67.55     108.28     171.49 2     1   104   37
4   454   285   317   434            68.55     102.57     177.75 1   245   460   435   352   321   441
  333            69.55      97.04     175.95 2     1   102   398   552   372   367   440            70
.55     91.24     169.68 1   239   528   492   401   306   489   322            71.55      85.52     16
3.41 2     2   116   407   505   379   345   416

  TAPE NO.   1               FILE NO.   3
  RECORD   1440              LENGTH   4800
       86352.37      49.63     143.13 1   156   326   624   666   309    44    11         86353.37
  47.08     136.85 2     1    81   277   548   690   220    24         86354.37      46.84     130.57 1
   188   336   634   628   315    41    13         86355.37      46.65     124.29 2     1   100   310
  586   742   199    18         86356.37      44.47     118.01 1   221   379   648   612   333    43
  15         86357.37      46.47     111.74 2     1    82   302   507   752   201    30         86358.3
7     49.64     105.46 1   198   362   646   668   339    51    14         86359.37      51.88      99.
18 2     1    96   283   518   754   207    24         86360.37      52.64      92.90 1   195   327
600   652   367    53    15         86361.37      54.54      86.62 2     1    94   259   590   820    2
31    32         86362.37      56.80      80.34 1   137   331   578   646   349    55     9         863
63.37      60.39      74.06 2     1    51   263   506   708   199    24         86364.37      65.73
 67.78 1   127   242   542   616   318    59    14         86365.37      69.23      61.51 2     1    4
6   203   438   746   221    34         86366.37      73.87      55.23 1   121   297   634   738   369
   58    15         86367.37      77.34      48.95 2     1    56   234   465   850   262    52
 86368.37      81.24      42.67 1   132   327   576   750   376    52    17         86369.37      84.62
     36.39 2     5    47   231   489   764   290    51         86370.37      88.12      30.12 1   145
  297   608   762   421    81    20         86371.37      89.42      23.84 2     1    59   197   492
 750   260    37         86372.37      95.33      17.57 1   152   317   580   674   362    70    24
       86373.37     100.36      11.30 2     1    49   208   495   790   254    49         86374.37    10
4.44       5.06 1   135   299   696   704   410    86    22         86375.37     109.20       1.54 2
  1    91   190   459   808   303    41         86376.37     112.13       7.62 1   118   294   588    7
56   352    73    20         86377.37     116.93      13.88 2     1    87   252   492   822   256    3
8         86378.37     119.18      20.15 1   152   278   600   812   492    93    16         86379.37
  124.35      26.42 2     1    81   250   526   904   346    49         86380.37     125.45      32.70
1   206   372   754   946   463   104    21         86381.37     128.42      38.98 2     2    85   289
  570   914   307    45         86382.37     133.03      45.25 1   167   428   754   768   451    74
  25         86383.37     133.41      51.53 2     1    65   287   674   974   302    39         86384.
37    134.09      57.81 1   195   386   848   928   448    56    18         86385.37     134.95     64
.09 2     1    54   246   672   858   227    29         86386.37     134.37      70.37 1   124   367
 658   692   329    53     8         86387.37     131.52      76.65 2     1    55   242   616   716
202    32         86388.37     129.57      82.93 1   127   266   728   814   424    56     8         86
```

75.40 1 105 244 808 608 412 45 13 86391.37 119.13 101.76 2 1
36 151 467 844 268 22 86392.37 116.05 108.04 1 92 248 610 808 42
5 55 20 86393.37 111.56 114.32 2 1 40 135 415 754 255 44
86394.37 107.67 120.60 1 71 208 524 726 366 66 15 86395.37 104.2
7 126.88 2 1 39 169 387 734 233 38 86396.37 99.96 133.16 1 65
236 526 714 417 84 18 86397.37 96.53 139.43 2 1 38 155 384
884 297 49 86398.37 93.05 145.71 1 81 222 544 776 447 82 36
86399.37 90.39 151.99 2 1 39 177 411 736 314 52 86400.37
85.72 158.27 1 101 236 568 792 496 104 21 86401.37 78.64 164.54 2
1 47 175 438 872 314 47 86402.37 73.69 170.81 1 98 246 600
840 500 89 23 86403.37 69.46 177.04 2 1 39 168 425 768 288
46 86404.37 65.29 176.54 1 124 249 562 764 389 76 20 86405.37
61.07 170.30 2 1 33 201 518 946 286 49 86406.37 57.90 164.03
1 95 275 658 818 434 78 11 86407.37 53.35 157.76 2 1 45 23
6 564 974 311 39 86408.37 50.31 151.48 1 156 351 760 952 528 105
20 86409.37 47.75 145.20 2 1 65 266 594 1000 328 44 86410
.37 45.41 138.93 1 142 396 696 848 413 64 19 86411.37 43.77 13
2.65 2 1 67 284 632 954 273 26

TAPE NO. 1 FILE NO. 4
RECORD 1 LENGTH 4800
12.55 93.16 173.60 1 2 1 3 5 9 34 68 13.55
87.41 167.33 2 1 1 2 2 7 20 55 14.55 81.77 161.05 1
1 3 5 3 14 36 77 15.55 75.94 154.78 2 1 1 1
3 9 28 64 16.55 70.50 148.50 1 1 2 7 2 18 28
75 17.55 64.85 142.23 2 1 3 1 3 7 21 70 18.5
5 59.26 135.96 1 1 3 2 10 17 30 64 19.55 53.91 129.
68 2 2 2 2 6 6 17 53 20.55 48.40 123.41 1 1 3
3 12 22 28 44 21.55 43.16 117.13 2 1 1 1 5 10
18 39 22.55 38.36 110.86 1 2 4 2 17 27 41 42
23.55 33.58 104.58 2 2 2 2 7 14 33 40 24.55 29.45
98.31 1 1 2 7 15 25 35 34 25.55 25.97 92.03 2 1
1 6 5 19 38 42 26.55 23.78 85.76 1 7 9 17 34 23
76 38 27.55 22.93 79.49 2 1 4 4 9 18 41 62
28.55 23.45 73.21 1 4 9 22 28 43 70 50 29.55 25.62
66.94 2 2 5 6 11 26 39 56 30.55 29.03 60.66 1 8
18 16 30 43 71 41 31.55 33.08 54.39 2 2 2 7 17
28 33 62 32.55 37.58 48.11 1 9 8 12 21 39 64 50
33.55 42.72 41.84 2 1 5 15 16 16 27 69 34.55 4
7.83 35.57 1 6 8 15 13 21 55 60 35.55 53.30 29.29 2
3 4 2 6 17 16 56 36.55 58.76 23.02 1 13 7 5
19 28 42 100 37.55 64.32 16.74 2 1 5 8 7 10 19 6
4 38.55 70.20 10.47 1 4 6 1 10 14 42 85 39.55
75.75 4.19 2 2 3 1 7 10 26 62 40.55 81.30 2.08
1 2 6 8 11 17 39 85 41.55 87.10 8.36 2 2 3 1
2 11 21 70 42.55 92.98 14.63 1 5 4 5 6 18 37
78 43.55 98.60 20.90 2 1 1 1 2 7 18 64 44.
55 104.43 27.18 1 1 3 8 18 13 28 100 45.55 110.07 33
.45 2 1 1 3 7 9 15 62 46.55 115.70 39.73 1 1 2
5 12 22 45 64 47.55 121.05 46.00 2 1 1 5 4 7
26 57 48.55 126.58 52.28 1 2 4 6 16 25 52 46
49.55 132.04 58.55 2 1 1 1 10 8 27 58 50.55 137.15
64.83 1 5 4 12 20 27 57 36 51.55 142.03 71.10 2 1
3 7 17 15 31 55 52.55 146.45 77.37 1 3 6 12 31 2
9 69 45 53.55 150.29 83.65 2 1 5 6 6 22 30 60
54.55 153.08 89.92 1 6 3 14 35 31 51 40 55.55 155.0
3 96.20 2 1 1 6 13 22 43 62 56.55 155.59 102.47 1 2
9 14 42 37 64 32 57.55 154.38 108.75 2 1 2 4 5
16 28 47 58.55 152.11 115.02 1 3 8 4 25 23 49 38
59.55 148.73 121.30 2 1 1 4 8 16 33 42 60.55 1
44.70 127.57 1 3 5 3 15 32 40 37 61.55 140.17 133.84 2
1 2 4 8 10 18 42 62.55 135.32 140.12 1 3 2 6
10 11 36 45 63.55 130.01 146.39 2 1 1 2 1 4 23
52 64.55 124.90 152.67 1 2 2 4 8 10 27 54 65.55
119.55 158.94 2 1 1 1 5 7 11 54 66.55 114.09 165.22

```
2     5     7    15    38           68.55    102.57    177.75 1    1     2     6     8    13    28
   84              69.55      97.04      175.95 2     1     1     2     2     6    11    51          70
.55       91.24      169.68 1     2     3     2     4     8    39    82           71.55       85.52     16
3.41 2     1     2     2     4     9    16    36

  TAPE NO.   1               FILE NO.   4
  RECORD   1440              LENGTH   4800
          86352.37       49.63      143.13 1     1     1    10    77    80   206    81          86353.37
  47.08      136.85 2     1     1     2     2    39    73   115        86354.37      46.84      130.57 1
      1     1     4    79    87    91    63        86355.37      46.65      124.29 2     1     1     1
    2    55    77    64        86356.37      44.47      118.01 1     1     1     3    57    55    67
  66        86357.37      46.47      111.74 2     1     1     1     2    19    85    57        86358.3
7     49.64      105.46 1     1     1     4    51    72    64   102        86359.37      51.88      99.
18 2     1     1     1     6    10    30    80        86360.37      52.64       92.90 1     1     1
    2     7    26    50    89        86361.37      54.54       86.62 2     1     1     1     5     7
22    93        86362.37      56.80       80.34 1     1     1     4    14    33    64   101        863
63.37      60.39       74.06 2     1     1     1     1     8    29    86        86364.37      65.73
 67.78 1     1     2     5    13    22    62    76        86365.37      69.23       61.51 2     1
1     1     1    12    35    80        86366.37      73.87       55.23 1     1     1     3    18    24
   59    77        86367.37      77.34       48.95 2     1     1     1     2    10    35    59
 86368.37      81.24       42.67 1     1     2     3    15    30    42    91        86369.37      84.62
    36.39 2     1     1     2     5     9    37   107        86370.37      88.12       30.12 1     1
    2     4     8    31    87    49        86371.37      89.42       23.84 2     1     1     1     4
  6    34    62        86372.37      95.33       17.57 1     1     1     4    12    34    63    58
    86373.37     100.36       11.30 2     1     1     2     2    10    36    46        86374.37      10
4.44       5.06 1     1     1     6    12    26    48    43        86375.37     109.20        1.54 2
  1     1     2     2    11    45    84        86376.37     112.13        7.62 1     4     2     5
23    35    87    36        86377.37     116.93       13.88 2     1     1     2     4    10    60     4
7        86378.37     119.18       20.15 1     1     1     4    16    37    84    49        86379.37
 124.35       26.42 2     1     1     2     2     8    31    65        86380.37     125.45       32.70
1     1     2     3    12    36    72    53        86381.37     128.42       38.98 2     1     1     1
    2     7    42    84        86382.37     133.03       45.25 1     1     2     5    23    34    72
   86        86383.37     133.41       51.53 2     1     1     2     2     8    36    86        86384.
37     134.09       57.81 1     1     1     3     7    19   103    80        86385.37     134.95      64
.09 2     1     1     1     4    10    32    76        86386.37     134.37       70.37 1     1     2
  3     9    36   108    74        86387.37     131.52       76.65 2     1     1     1     1     6
51   120        86388.37     129.57       82.93 1     1     1     1     7    18    95   101        86
389.37     125.30       89.20 2     1     1     1     3     3    52   205        86390.37     122.04
 95.48 1     1     2     6     5    29   139   176        86391.37     119.13      101.76 2     1
  1     3     3     5    56   157        86392.37     116.05      108.04 1     1     1     6     8     2
6   115   147        86393.37     111.56      114.32 2     1     1     1     4    13    43   131
 86394.37     107.67      120.60 1     1     2     2     9    36   109   148        86395.37     104.2
7     126.88 2     1     1     1     1    12    64   163        86396.37      99.96      133.16 1     1
      1     4    19    26   122   217        86397.37      96.53      139.43 2     1     2     2     3
   10    52   140        86398.37      93.05      145.71 1     1     1     3    19    46   100   207
      86399.37      90.39      151.99 2     1     1     1     3     5    50   129        86400.37
85.72      158.27 1     2     1     3    11    31   105   201        86401.37      78.64      164.54 2
  1     1     1     2     9    46   181        86402.37      73.69      170.81 1     1     3     3
15    35   134   222        86403.37      69.46      177.04 2     1     1     2     2     7   114     5
22        86404.37      65.29      176.54 1     1     1     2    16    74   470   209        86405.37
   61.07      170.30 2     1     2     1     3    13   248   201        86406.37      57.90      164.03
  1     1     3    10    48   447   191   154        86407.37      53.35      157.76 2     1     1
2     4    28   562   110        86408.37      50.31      151.48 1     1     1     5    80   504    96
  131        86409.37      47.75      145.20 2     1     1     2     4    34   280   106        86410
.37      45.41      138.93 1     1     2     6   144   397    72    90        86411.37      43.77      13
2.65 2     1     1     3     5    21   164    78

***** JOB DONE.


$$
```

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 79-002A-08A

DATE DATA RECEIVED: 10/13/81

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:	1 Mag Tape

SATELLITE NAME/NSDF NAME: Isaeka

EXPERIMENT NAME:

DATA SET FULL NAME: B Field Averages - 1 MIN

CONTACT: _____ ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: [X] A NEW DATA SET [ ] ADDITIONS [ ] REPLACEMENTS [ ] OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DD 46636 C.

REMARKS:

CDAW

DATA RECEIPT NOTIFICATION SENT? [ ]

Linda Horan

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

B FIELD AVERAGES - 1 MIN

79-007A-08A

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

D#	C#	TIME SPAN
D-46636	C-21744	3/22/79, 3/31/79, 4/1/79

Date 10/6/81

NSSDC ID 79-002A-08(A)

CDAW DATA SET ENTRY

Date Rcvd: 10/6/81 CDB: 6

Data Sent By: Brian Ledley

Material Rcvd: 1 9TrK -1600 bpi - EBCDIC - 3 files?

3 Tape listings for Days 81, 90, 91

satellite/NSRF Name: Scatha

Data Set Name: B field Averages - 1 min

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage: 1979 Days 81, 90, 91

Tapes To be Returned to: NO

EBCDIC Dump Please - Thanks.

Completed By: Dan Sawyer

EXPERIMENTER : D. LEDLEY x6259
PROGRAMMER : O. CLARK x6674

OUTPUT TAPE DD CARD IS: //GO.FT08F001 DD UNIT=1600,LABEL=(1,NL),DISP=(OLD,KEEP),VOL=SER=LST060,
// DSN=SCATHACD,DCB=(,DEN=3,LRECL=214,BLKSIZE=2140,RECFM=FB)
OUTPUT TAPE FORMAT IS (1X,I2,I3,2I4,20F10.5) = (YR,DY,HR,MN,SEC & 19 DATA PARMS)

360/91 EBCDIC

CDB6
10/6/81
79-0071-08A

The 19 data points are one minute averages, as follows:—

1 FGX
2 FGY
3 FGZ — the three Cartesian components of the measured magnetic field, in topographic coordinates X = North, Y = East, Z = down. Units are nanoTeslas.

4 BGX
5 BGY
6 BGZ — model (dipole) magnetic field, in the same coordinates.

7 DGX
8 DGY
9 DGZ — Measured minus model magnetic Field, in the same coordinates.

10 |F| Magnitude of the measured field.
11 |B| " " " model " .
12 BD declination of model field, in degrees.
13 BI inclination " " " " .
14 FI " " measured " " .
15 FD declination " " " " .

16 FDEV
17 GXDEV
18 GYDEV
19 GZDEV — Standard deviation of one minute sets of the measured field (Total field, and three topographic components, respectively)

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 79-002A-08A

DATE DATA RECEIVED: 10/13/81

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:	1 Mag Tape

SATELLITE NAME/NSDF NAME: Isaeka

EXPERIMENT NAME:

DATA SET FULL NAME: B Field Averages - 1 MIN

CONTACT: _____ ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: [X] A NEW DATA SET [ ] ADDITIONS [ ] REPLACEMENTS [ ] OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DD 46636 C.

REMARKS:

CDAW

DATA RECEIPT NOTIFICATION SENT? [ ]

Linda Horan

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

B FIELD AVERAGES - 1 MIN

79-007A-08A

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

D#	C#	TIME SPAN
D-46636	C-21744	3/22/79, 3/31/79, 4/1/79

Date 10/6/81

NSSDC ID 79-002A-08(A)

CDAW DATA SET ENTRY

Date Rcvd: 10/6/81 CDB: 6

Data Sent By: Brian Ledley

Material Rcvd: 1 9TrK -1600 bpi - EBCDIC - 3 files?

3 Tape listings for Days 81, 90, 91

satellite/NSRF Name: Scatha

Data Set Name: B field Averages - 1 min

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage: 1979 Days 81, 90, 91

Tapes To be Returned to: NO

EBCDIC Dump Please - Thanks.

Completed By: Dan Sawyer

EXPERIMENTER : D. LEDLEY x6259
PROGRAMMER : O. CLARK x6674

OUTPUT TAPE DD CARD IS: //GO.FT08F001 DD UNIT=1600,LABEL=(1,NL),DISP=(OLD,KEEP),VOL=SER=LST060,
// DSN=SCATHACD,DCB=(,DEN=3,LRECL=214,BLKSIZE=2140,RECFM=FB)
OUTPUT TAPE FORMAT IS (1X,I2,I3,2I4,20F10.5) = (YR,DY,HR,MN,SEC & 19 DATA PARMS)

360/91 EBCDIC

CDB6
10/6/81
79-0071-08A

The 19 data points are one minute averages, as follows:—

1 FGX
2 FGY
3 FGZ — the three Cartesian components of the measured magnetic field, in topographic coordinates X = North, Y = East, Z = down. Units are nanoTeslas.

4 BGX
5 BGY
6 BGZ — model (dipole) magnetic field, in the same coordinates.

7 DGX
8 DGY
9 DGZ — Measured minus model magnetic Field, in the same coordinates.

10 |F| Magnitude of the measured field.
11 |B| " " " model " .
12 BD declination of model field, in degrees.
13 BI inclination " " " " .
14 FI " " measured " " .
15 FD declination " " " " .

16 FDEV
17 GXDEV
18 GYDEV
19 GZDEV — Standard deviation of one minute sets of the measured field (Total field, and three topographic components, respectively)

D-46636
3/22/79, 3/31/79, 4/1/

DUMP OF TAPE X-393

INPUT TAPE X-393 ON MT4
DATA INPUT H9 NF 3 FL 3 1 1

FILE 1 RECORD 9 1 8 LENGTH 2140BYTES

(0)	40F1F9F7	F94040F8	F140F540	F5F04040	F2F04BF6	F4F4F2F0	4040F8F3	4BF7F9F3	F3F34060	F1F44BF9
(40)	F6F6F8F8	404060F1	4BF4F2F1	F7F74040	F7F24BF0	F9F8F2F1	4060F1F3	4BF4F7F8	F8F94040	40F14BF3
(80)	F6F3F0F7	4040F1F1	4BF6F9F5	F1F24040	60F14BF4	F8F7F9F9	404060F2	4BF7F8F4	F8F44040	F8F54BF1
(120)	F3F3F0F4	4040F7F3	4BF3F6F0	F0F04060	F1F04BF1	F2F7F1F8	404060F0	4BF9F5F6	F9F24040	40F14BF0
(160)	F6F4F6F5	4060F1F0	4BF5F8F9	F3F14040	40F04BF2	F5F3F5F4	404040F0	4BF2F5F7	F4F54040	40F04BF3
(200)	F8F1F6F7	404040F0	4BF3F6F8	F1F240F1	F9F7F940	40F8F140	F540F5F1	4040F2F0	4BF6F4F4	F0F64040
(240)	F8F34BF6	F7F5F0F7	4060F1F5	4BF2F9F6	F1F64040	60F04BF7	F0F3F0F7	4040F7F2	4BF1F8F3	F1F64060
(280)	F1F34BF5	F0F0F8F3	404040F1	4BF4F4F3	F6F74040	F1F14BF4	F9F1F9F2	404060F1	4BF7F9F5	F3F34040
(320)	60F24BF1	F4F6F7F4	4040F8F5	4BF0F6F5	F5F14040	F7F34BF4	F4F9F0F6	4060F1F0	4BF3F5F9	F5F34040
(360)	60F04BF4	F7F3F5F6	404040F1	4BF1F2F6	F2F44060	F1F04BF5	F9F3F9F6	404040F0	4BF2F4F3	F4F04040
(400)	40F04BF2	F3F7F0F1	404040F0	4BF3F6F0	F7F24040	40F04BF1	F6F9F4F4	40F1F9F7	F94040F8	F140F540
(440)	F5F24040	F2F04BF6	F4F3F9F2	4040F8F3	4BF6F0F7	F4F84060	F1F54BF0	F0F0F8F2	404060F0	4BF0F1F4
(480)	F8F04040	F7F24BF2	F6F8F6F7	4060F1F3	4BF5F2F2	F8F74040	40F14BF5	F2F4F3F1	4040F1F1	4BF3F3F8
(520)	F8F14040	60F14BF4	F7F7F9F5	404060F1	4BF5F3F9	F1F24040	F8F44BF9	F4F4F4F7	4040F7F3	4BF5F3F8
(560)	F7F84060	F1F04BF1	F7F1F7F6	404060F0	4BF0F0F9	F9F94040	40F14BF1	F8F7F7F1	4060F1F0	4BF5F9F8
(600)	F5F94040	40F04BF2	F5F0F3F3	404040F0	4BF2F6F9	F2F64040	40F04BF4	F5F5F0F6	404040F0	4BF3F3F3
(640)	F3F240F1	F9F7F940	40F8F140	F540F5F3	4040F2F0	4BF6F4F3	F7F84040	F8F34BF5	F3F7F9F3	4060F1F4
(680)	4BF6F8F8	F9F04040	40F04BF4	F8F3F4F6	4040F7F2	4BF3F5F4	F7F54060	F1F34BF5	F4F5F0F0	404040F1
(720)	4BF6F0F5	F0F04040	F1F14BF1	F8F3F1F7	404060F1	4BF1F4F3	F9F04040	60F14BF1	F2F1F5F3	4040F8F4
(760)	4BF8F2F1	F7F74040	F7F34BF6	F2F9F1F6	404060F9	4BF9F7F2	F6F74040	40F04BF3	F2F6F5F7	404040F1
(800)	4BF2F4F9	F0F54060	F1F04BF6	F0F3F2F0	404040F0	4BF1F6F3	F2F74040	40F04BF1	F6F1F3F3	404040F0
(840)	4BF3F4F8	F8F14040	40F04BF1	F6F7F2F7	40F1F9F7	F94040F8	F140F540	F5F44040	F2F04BF6	F4F3F6F5
(880)	4040F8F3	4BF3F2F8	F6F44060	F1F44BF5	F7F1F7F8	404040F0	4BF2F8F0	F9F64040	F7F24BF4	F4F1F4F1
(920)	4060F1F3	4BF5F6F7	F2F34040	40F14BF6	F8F5F7F2	4040F1F0	4BF8F8F7	F2F34040	60F14BF0	F0F4F5F5
(960)	404060F1	4BF4F0F4	F7F54040	F8F44BF5	F9F5F3F5	4040F7F3	4BF7F2F0	F2F14040	60F94BF9	F1F9F0F9
(1000)	404040F0	4BF1F9F0	F3F04040	40F14BF3	F1F0F2F7	4060F1F0	4BF6F0F7	F7F84040	40F04BF1	F8F7F8F2
(1040)	404040F0	4BF2F2F6	F3F44040	40F04BF3	F7F5F0F7	404040F0	4BF3F7F3	F6F340F1	F9F7F940	40F8F140
(1080)	F540F5F5	4040F2F0	4BF6F4F3	F5F14040	F8F34BF1	F3F8F8F5	4060F1F4	4BF7F2F1	F5F34040	40F04BF3
(1120)	F2F1F9F4	4040F7F2	4BF5F2F8	F6F34060	F1F34BF5	F8F9F5F5	404040F1	4BF7F6F6	F4F84040	F1F04BF6
(1160)	F1F0F2F2	404060F1	4BF1F3F1	F9F84040	60F14BF4	F4F4F5F4	4040F8F4	4BF4F3F5	F7F24040	F7F34BF8
(1200)	F1F1F9F1	4060F1F0	4BF0F4F1	F3F74040	40F04BF2	F1F8F4F6	404040F1	4BF3F7F1	F3F54060	F1F04BF6
(1240)	F1F2F3F5	404040F0	4BF2F0F5	F7F84040	40F04BF2	F1F5F6F4	404040F0	4BF5F1F1	F1F24040	40F04BF4
(1280)	F7F8F3F0	40F1F9F7	F94040F8	F140F540	F5F64040	F2F04BF6	F4F3F3F7	4040F8F3	4BF3F4F5	F4F24060
(1320)	F1F44BF4	F8F1F5F6	404040F0	4BF0F4F7	F5F34040	F7F24BF6	F1F6F4F3	4060F1F3	4BF6F1F1	F9F64040
(1360)	40F14BF8	F4F7F2F9	4040F1F0	4BF7F2F8	F9F94040	60F04BF8	F6F9F6F0	404060F1	4BF7F9F9	F7F64040
(1400)	F8F44BF5	F9F5F2F3	4040F7F3	4BF9F0F4	F2F94040	60F94BF8	F5F6F9F4	404040F0	4BF0F3F2	F1F94040
(1440)	40F14BF4	F3F2F2F9	4060F1F0	4BF6F1F6	F9F04040	40F04BF2	F2F5F6F9	404040F0	4BF2F4F2	F5F54040
(1480)	40F04BF3	F4F4F9F9	404040F0	4BF2F2F0	F2F440F1	F9F7F940	40F8F140	F540F5F7	4040F2F0	4BF6F4F3
(1520)	F2F34040	F8F34BF2	F6F5F3F7	4060F1F4	4BF7F3F0	F2F14040	40F04BF1	F0F6F5F3	4040F7F2	4BF7F0F4
(1560)	F8F14060	F1F34BF6	F3F4F4F7	404040F1	4BF9F2F8	F1F34040	F1F04BF5	F6F0F5F7	404060F1	4BF0F9F5
(1600)	F7F54040	60F14BF8	F2F1F6F0	4040F8F4	4BF5F5F9	F8F84040	F7F34BF9	F9F7F3F3	4060F1F0	4BF0F3F2
(1640)	F2F24040	40F04BF0	F7F2F1F8	404040F1	4BF4F9F3	F1F14060	F1F04BF6	F2F1F4F2	404040F0	4BF2F3F9
(1680)	F8F14040	40F04BF2	F4F0F4F5	404040F0	4BF3F3F8	F5F24040	40F04BF3	F8F1F1F5	40F1F9F7	F94040F8
(1720)	F140F540	F5F84040	F2F04BF6	F4F3F1F0	4040F8F3	4BF4F4F1	F8F94060	F1F44BF6	F7F0F4F3	404040F0
(1760)	4BF4F8F3	F1F34040	F7F24BF7	F9F3F7F6	4060F1F3	4BF6F5F7	F0F74040	40F24BF0	F0F9F0F1	4040F1F0
(1800)	4BF6F4F8	F1F34040	60F14BF0	F1F3F3F6	404060F1	4BF5F2F5	F8F94040	F8F44BF7	F2F5F3F8	4040F7F4
(1840)	4BF0F9F1	F0F44040	60F94BF9	F7F1F6F1	404040F0	4BF3F2F6	F7F24040	40F14BF5	F5F3F7F9	4060F1F0
(1880)	4BF6F2F5	F9F24040	40F04BF2	F3F0F3F2	404040F0	4BF2F3F6	F3F84040	40F04BF4	F1F9F9F5	404040F0
(1920)	4BF4F5F5	F8F740F1	F9F7F940	40F8F140	F540F5F9	4040F2F0	4BF6F4F2	F9F64040	F8F34BF7	F8F6F0F5
(1960)	4060F1F4	4BF6F8F5	F9F94040	40F04BF4	F5F5F6F2	4040F7F2	4BF8F8F3	F2F94060	F1F34BF6	F7F9F7F7
(2000)	404040F2	4BF0F8F9	F9F44040	F1F04BF9	F0F2F7F6	404060F1	4BF0F0F6	F2F24040	60F14BF6	F3F4F3F2
(2040)	4040F8F5	4BF0F6F6	F5F14040	F7F44BF1	F8F5F4F3	404060F9	4BF9F4F1	F7F94040	40F04BF3	F0F6F8F8
(2080)	404040F1	4BF6F1F4	F3F44060	F1F04BF6	F3F0F4F0	404040F0	4BF2F3F6	F8F34040	40F04BF2	F9F0F0F2
(2120)	404040F0	4BF4F6F7	F3F34040	40F04BF2	F7F5F9F9					

FILE 1 RECORD 9 76 8 LENGTH 2140BYTES

(0)	40F1F9F7	F94040F8	F1F2F040	40F14040	F2F54BF0	F2F7F7F1	4040F7F6	4BF5F9F4	F0F64060	F3F14BF3

(120)	F7F4F5F8	40F1F2F0	4BF5F9F6	F3F24060	F2F24BF2	F4F5F7F6	4060F5F4	4BF9F9F5	F5F44060	F3F14BF6
(160)	F8F0F9F8	404060F5	4BF9F4F7	F4F84040	40F04BF9	F0F6F1F1	404040F0	4BF8F5F9	F6F54040	40F04BF8
(200)	F1F6F2F0	404040F0	4BF8F7F6	F1F540F1	F9F7F940	40F8F1F2	F04040F2	4040F2F5	4BF0F2F7	F5F74040
(240)	F7F44BF9	F5F5F3F0	4060F3F1	4BF3F8F3	F8F760F1	F1F64BF8	F7F8F0F4	40F1F0F1	4BF8F3F0	F4F24060
(280)	F1F04BF6	F0F9F0F3	4060F6F3	4BF1F3F8	F9F64060	F2F64BF8	F7F5F1F3	4060F2F0	4BF7F7F4	F8F44060
(320)	F5F34BF7	F3F9F0F8	40F1F4F2	4BF3F5F4	F3F340F1	F2F04BF2	F8F5F1F4	4060F2F2	4BF7F1F9	F1F24060
(360)	F5F54BF1	F8F8F6F4	4060F3F1	4BF6F6F2	F2F34040	60F54BF9	F4F7F8F1	404040F1	4BF3F4F4	F5F04040
(400)	40F14BF0	F4F9F3F7	404040F0	4BF7F6F6	F6F14040	40F14BF0	F7F4F6F8	40F1F9F7	F94040F8	F1F2F040
(440)	40F34040	F2F54BF0	F2F7F4F4	4040F7F4	4BF2F3F2	F4F64060	F2F94BF7	F7F5F7F4	60F1F1F6	4BF1F2F3
(480)	F5F340F1	F0F14BF5	F8F8F6F4	4060F1F0	4BF5F8F4	F5F54060	F6F24BF9	F4F2F3F5	4060F2F7	4BF3F5F6
(520)	F1F84060	F1F94BF1	F9F1F1F9	4060F5F3	4BF1F8F1	F1F940F1	F4F14BF0	F0F5F4F7	40F1F1F9	4BF9F7F5
(560)	F0F94060	F2F14BF8	F5F6F4F6	4060F5F5	4BF4F4F0	F6F74060	F3F14BF6	F4F3F2F3	404060F5	4BF9F4F8
(600)	F2F04040	40F04BF2	F9F4F6F2	404040F0	4BF4F5F4	F8F94040	40F04BF6	F4F1F5F4	404040F0	4BF5F3F3
(640)	F1F540F1	F9F7F940	40F8F1F2	F04040F5	4040F1F0	4BF0F2F7	F2F04040	F7F54BF5	F8F4F5F5	4060F2F4
(680)	4BF3F7F0	F4F360F1	F1F94BF9	F5F0F1F9	40F1F0F1	4BF1F6F8	F1F44060	F1F04BF5	F4F2F2F8	4060F6F2
(720)	4BF5F9F9	F0F24060	F2F54BF5	F8F3F5F9	4060F1F3	4BF8F2F8	F1F44060	F5F74BF3	F5F1F1F7	40F1F4F3
(760)	4BF8F7F1	F3F140F1	F1F94BF4	F3F5F2F2	4060F1F7	4BF8F7F0	F6F74060	F5F64BF4	F8F4F0F9	4060F3F1
(800)	4BF6F0F9	F3F84040	60F54BF9	F4F9F0F7	404040F0	4BF9F2F1	F9F54040	40F14BF1	F2F7F5F0	404040F1
(840)	4BF7F1F1	F3F54040	40F04BF7	F8F2F2F9	40F1F9F7	F94040F8	F1F2F040	40F64040	F1F04BF0	F2F7F0F6
(880)	4040F7F5	4BF4F8F7	F6F24060	F2F34BF2	F9F7F1F2	60F1F2F1	4BF9F2F2	F8F040F1	F0F04BF9	F2F9F3F9
(920)	4060F1F0	4BF5F1F8	F4F54060	F6F24BF4	F0F3F2F8	4060F2F5	4BF4F4F1	F7F64060	F1F24BF7	F7F8F6F7
(960)	4060F5F9	4BF5F1F9	F5F240F1	F4F54BF2	F8F5F0F2	40F1F1F9	4BF1F2F8	F2F94060	F1F74BF1	F5F1F3F6
(1000)	4060F5F7	4BF0F5F5	F4F64060	F3F14BF5	F8F9F6F9	404060F5	4BF9F4F9	F6F64040	40F14BF1	F3F7F8F0
(1040)	404040F0	4BF7F8F9	F1F04040	40F14BF1	F4F7F2F2	404040F0	4BF8F8F6	F1F540F1	F9F7F940	40F8F1F2
(1080)	F04040F7	4040F1F0	4BF0F2F6	F9F34040	F7F54BF0	F8F8F0F6	4060F1F9	4BF6F0F2	F4F560F1	F2F04BF5
(1120)	F2F8F9F2	40F1F0F0	4BF6F9F1	F7F34060	F1F04BF4	F9F4F8F5	4060F6F2	4BF2F0F7	F8F74060	F2F54BF6
(1160)	F0F3F6F6	404060F9	4BF1F0F7	F5F94060	F5F84BF3	F2F1F0F5	40F1F4F3	4BF3F5F3	F8F340F1	F1F84BF8
(1200)	F2F2F4F9	4060F1F4	4BF6F3F1	F0F64060	F5F74BF2	F2F2F4F9	4060F3F1	4BF5F6F9	F7F54040	60F54BF9
(1240)	F5F0F3F1	404040F0	4BF3F4F8	F9F34040	40F04BF5	F9F0F0F7	404040F0	4BF5F7F1	F0F44040	40F04BF2
(1280)	F7F2F3F1	40F1F9F7	F94040F8	F1F2F040	40F84040	F1F04BF0	F2F6F7F9	4040F7F3	4BF6F4F7	F1F84060
(1320)	F1F94BF6	F6F4F2F9	60F1F2F1	4BF3F9F4	F9F840F1	F0F04BF4	F5F5F1F6	4060F1F0	4BF4F7F1	F4F84060
(1360)	F6F24BF0	F1F2F7F9	4060F2F6	4BF8F0F7	F9F84040	60F94BF1	F9F2F8F1	4060F5F9	4BF3F8F2	F1F940F1
(1400)	F4F34BF3	F4F6F4F6	40F1F1F8	4BF5F1F7	F8F34060	F1F44BF9	F4F9F6F1	4060F5F7	4BF8F7F2	F2F24060
(1440)	F3F14BF5	F4F9F5F6	404060F5	4BF9F5F1	F0F44040	40F04BF4	F0F9F2F8	404040F0	4BF6F6F9	F3F34040
(1480)	40F04BF7	F3F3F5F1	404040F0	4BF2F3F9	F0F140F1	F9F7F940	40F8F1F2	F04040F9	4040F1F0	4BF0F2F6
(1520)	F6F54040	F7F24BF2	F4F9F4F0	4060F1F8	4BF2F1F1	F7F660F1	F2F04BF7	F9F2F7F2	40F1F0F0	4BF2F1F9
(1560)	F6F84060	F1F04BF4	F4F8F3F4	4060F6F1	4BF8F1F8	F0F44060	F2F74BF9	F7F0F2F8	404060F7	4BF7F6F3
(1600)	F4F24060	F5F84BF9	F7F4F6F7	40F1F4F1	4BF9F2F7	F7F640F1	F1F84BF2	F1F4F3F1	4060F1F4	4BF1F4F7
(1640)	F7F14060	F5F84BF3	F2F9F9F8	4060F3F1	4BF5F2F9	F1F34040	60F54BF9	F5F1F8F4	404040F0	4BF3F8F6
(1680)	F7F34040	40F04BF4	F0F2F0F9	404040F0	4BF8F9F9	F8F24040	40F04BF3	F7F5F6F3	40F1F9F7	F94040F8
(1720)	F1F2F040	F1F04040	F1F04BF0	F2F6F5F2	4040F7F0	4BF4F1F2	F8F84060	F1F74BF6	F5F3F0F2	60F1F2F2
(1760)	4BF6F8F2	F1F54040	F9F94BF9	F8F5F2F9	4060F1F0	4BF4F2F5	F4F34060	F6F14BF6	F2F3F6F4	4060F2F9
(1800)	4BF5F7F2	F4F24040	60F74BF2	F2F7F5F9	4060F6F1	4BF0F5F8	F5F140F1	F4F24BF5	F5F1F4F9	40F1F1F7
(1840)	4BF9F1F1	F9F24060	F1F44BF0	F7F4F3F8	4060F5F9	4BF3F8F5	F8F64060	F3F14BF5	F0F8F4F5	404060F5
(1880)	4BF9F5F2	F7F04040	40F04BF7	F0F0F4F9	404040F0	4BF3F8F7	F7F54040	40F04BF5	F5F7F8F2	404040F0
(1920)	4BF6F6F5	F8F640F1	F9F7F940	40F8F1F2	F040F1F1	4040F1F0	4BF0F2F6	F3F84040	F7F14BF1	F9F6F3F4
(1960)	4060F1F8	4BF3F7F7	F0F060F1	F2F44BF1	F7F1F4F8	4040F9F9	4BF7F5F2	F0F04060	F1F04BF4	F0F2F7F5
(2000)	4060F6F1	4BF4F2F9	F5F84060	F2F84BF5	F5F5F6F6	404060F7	4BF9F7F4	F2F64060	F6F24BF7	F4F1F9F0
(2040)	40F1F4F4	4BF3F1F3	F2F040F1	F1F74BF6	F1F0F6F8	4060F1F4	4BF4F7F3	F1F34060	F5F94BF3	F6F4F9F5
(2080)	4060F3F1	4BF4F8F7	F5F34040	60F54BF9	F5F3F6F3	404040F0	4BF1F8F8	F6F94040	40F04BF3	F4F1F3F5
(2120)	404040F0	4BF9F0F1	F2F74040	40F04BF4	F6F6F0F3					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	76	77	2140	0	0	0	0	0	0

FILE 2 RECORD 1997 9 1 90 LENGTH 2140BYTES

(0)	40F1F9F7	F94040F9	F0F1F140	F4F94040	F4F54BF2	F0F0F3F0	40F1F6F8	4BF6F6F8	F8F74040	40F34BF0
(40)	F3F3F3F4	60F1F3F1	4BF7F2F4	F3F940F1	F9F44BF7	F7F0F4F3	404060F1	4BF6F2F0	F9F860F1	F0F14BF1
(80)	F2F2F3F2	4060F2F6	4BF1F0F1	F5F64040	40F44BF6	F5F4F3F3	4060F3F0	4BF6F0F2	F0F740F2	F1F44BF0
(120)	F4F2F6F9	40F2F1F9	4BF4F6F2	F6F94040	40F14BF0	F3F0F3F0	4060F3F7	4BF9F8F1	F8F54060	F2F74BF4
(160)	F3F6F9F5	404060F0	4BF4F7F6	F8F34040	40F04BF6	F7F9F1F2	404040F1	4BF2F5F1	F4F44040	40F14BF6
(200)	F5F4F2F8	404040F0	4BF8F5F2	F7F140F1	F9F7F940	40F9F0F1	F140F5F0	4040F4F5	4BF2F0F0	F1F840F1
(240)	F6F84BF8	F3F5F4F9	404040F3	4BF4F3F5	F0F660F1	F3F14BF6	F8F9F9F4	40F1F9F4	4BF5F5F0	F3F74040

(360)	F3F74BF9	F4F7F7F5	4060F2F7	4BF5F1F6	F2F44040	60F04BF4	F5F2F4F4	404040F0	4BF6F9F6	F7F74040
(400)	40F04BF8	F7F4F8F3	404040F0	4BF5F3F5	F2F44040	40F04BF4	F2F7F6F0	40F1F9F7	F94040F9	F0F1F140
(440)	F5F14040	F4F54BF2	F0F0F0F6	40F1F6F8	4BF4F1F3	F9F84040	40F34BF0	F2F6F3F6	60F1F3F2	4BF3F1F1
(480)	F4F140F1	F9F44BF3	F2F6F9F2	404060F1	4BF4F5F1	F9F360F1	F0F14BF5	F7F3F2F6	4060F2F5	4BF9F1F2
(520)	F9F44040	40F44BF4	F7F8F2F9	4060F3F0	4BF7F3F8	F1F540F2	F1F44BF2	F0F1F5F5	40F2F1F9	4BF2F7F6
(560)	F5F14040	40F14BF0	F2F9F4F8	4060F3F8	4BF1F4F8	F0F74060	F2F74BF5	F9F5F0F8	404060F0	4BF4F2F8
(600)	F0F84040	40F04BF6	F8F2F9F6	404040F1	4BF1F9F8	F0F04040	40F14BF3	F5F3F2F4	404040F0	4BF8F7F5
(640)	F5F440F1	F9F7F940	40F9F0F1	F140F5F2	4040F4F5	4BF1F9F9	F9F240F1	F6F84BF5	F2F9F6F8	404040F2
(680)	4BF6F2F3	F3F760F1	F3F24BF1	F5F3F0F7	40F1F9F4	4BF1F0F0	F0F74040	60F14BF3	F6F7F7F9	60F1F0F1
(720)	4BF7F9F2	F8F04060	F2F54BF5	F7F0F3F9	404040F3	4BF9F9F1	F1F64060	F3F04BF3	F6F0F2F7	40F2F1F4
(760)	4BF1F8F4	F2F240F2	F1F94BF1	F7F6F8F3	404040F0	4BF8F9F1	F8F14060	F3F84BF0	F9F7F8F7	4060F2F7
(800)	4BF6F7F3	F4F94040	60F04BF4	F0F3F7F5	404040F0	4BF6F6F8	F4F04040	40F04BF8	F2F0F7F9	404040F0
(840)	4BF4F7F1	F6F64040	40F04BF9	F2F8F9F5	40F1F9F7	F94040F9	F0F1F140	F5F34040	F4F54BF1	F9F9F8F0
(880)	40F1F6F7	4BF0F0F1	F4F64040	40F24BF3	F6F9F7F2	60F1F3F4	4BF0F7F0	F5F840F1	F9F34BF8	F6F9F8F4
(920)	404060F1	4BF2F8F3	F9F360F1	F0F24BF0	F0F8F3F7	4060F2F6	4BF8F6F8	F3F84040	40F34BF6	F5F3F6F5
(960)	4060F3F2	4BF0F6F2	F2F140F2	F1F44BF1	F9F0F0F8	40F2F1F9	4BF0F7F2	F7F54040	40F04BF8	F1F2F9F6
(1000)	4060F3F8	4BF7F5F1	F3F74060	F2F74BF7	F5F1F4F5	404060F0	4BF3F7F9	F4F44040	40F04BF6	F9F7F6F4
(1040)	404040F1	4BF5F5F6	F0F84040	40F24BF0	F8F8F3F0	404040F1	4BF0F3F4	F1F740F1	F9F7F940	40F9F0F1
(1080)	F140F5F4	4040F4F5	4BF1F9F9	F6F840F1	F6F64BF6	F8F9F7F0	404040F2	4BF9F7F3	F1F960F1	F3F44BF4
(1120)	F6F5F8F2	40F1F9F3	4BF6F3F6	F2F64040	60F14BF2	F0F0F3F4	60F1F0F2	4BF2F1F9	F9F54060	F2F64BF9
(1160)	F4F6F5F6	404040F4	4BF1F7F3	F5F34060	F3F24BF2	F4F5F8F7	40F2F1F4	4BF1F9F0	F5F740F2	F1F84BF9
(1200)	F6F4F2F9	404040F1	4BF0F2F1	F8F64060	F3F84BF8	F8F6F9F6	4060F2F7	4BF8F2F8	F9F74040	60F04BF3
(1240)	F5F5F1F7	404040F0	4BF6F9F1	F5F14040	40F14BF0	F5F7F4F6	404040F0	4BF9F2F6	F4F14040	40F04BF8
(1280)	F6F7F6F9	40F1F9F7	F94040F9	F0F1F140	F5F54040	F4F54BF1	F9F9F5F5	40F1F6F6	4BF5F6F9	F1F94040
(1320)	40F34BF0	F1F7F7F7	60F1F3F4	4BF6F8F4	F4F840F1	F9F34BF3	F9F9F3F6	404060F1	4BF1F1F7	F0F460F1
(1360)	F0F24BF4	F2F7F5F2	4060F2F6	4BF8F3F0	F1F74040	40F44BF1	F3F4F8F1	4060F3F2	4BF2F5F6	F9F640F2
(1400)	F1F44BF2	F3F5F8F7	40F2F1F8	4BF8F5F1	F4F54040	40F14BF0	F3F7F9F3	4060F3F8	4BF9F5F2	F3F54060
(1440)	F2F74BF9	F0F6F0F4	404060F0	4BF3F3F0	F9F34040	40F04BF6	F9F5F3F5	404040F1	4BF0F6F3	F5F04040
(1480)	40F14BF2	F8F8F6F4	404040F0	4BF6F2F2	F7F540F1	F9F7F940	40F9F0F1	F140F5F6	4040F4F5	4BF1F9F9
(1520)	F4F340F1	F6F64BF8	F9F1F1F7	404040F4	4BF4F0F0	F1F760F1	F3F44BF3	F1F1F5F9	40F1F9F3	4BF1F5F9
(1560)	F1F84040	60F14BF0	F3F4F0F3	60F1F0F2	4BF6F3F1	F0F84060	F2F64BF2	F6F8F0F1	404040F5	4BF4F3F4
(1600)	F2F04060	F3F14BF6	F8F0F5F1	40F2F1F4	4BF2F7F4	F0F240F2	F1F84BF7	F3F4F2F6	404040F1	4BF5F1F0
(1640)	F2F84060	F3F84BF8	F1F6F0F1	4060F2F7	4BF9F8F2	F6F74040	60F04BF3	F0F6F7F2	404040F0	4BF6F6F5
(1680)	F4F04040	40F04BF8	F6F2F5F8	404040F0	4BF6F8F0	F7F44040	40F04BF9	F8F2F6F8	40F1F9F7	F94040F9
(1720)	F0F1F140	F5F74040	F4F54BF1	F9F9F3F1	40F1F6F6	4BF9F1F1	F5F54040	40F24BF6	F9F6F1F7	60F1F3F4
(1760)	4BF4F2F2	F4F940F1	F9F24BF9	F1F5F7F4	404060F0	4BF9F5F1	F3F360F1	F0F24BF8	F3F0F6F3	4060F2F6
(1800)	4BF0F0F4	F1F84040	40F34BF6	F4F7F5F0	4060F3F1	4BF5F9F1	F8F740F2	F1F44BF3	F4F0F9F9	40F2F1F8
(1840)	4BF6F1F2	F7F24040	40F04BF9	F2F5F4F4	4060F3F8	4BF8F3F9	F6F74060	F2F84BF0	F5F8F8F4	404060F0
(1880)	4BF2F8F2	F5F44040	40F04BF6	F8F1F6F6	404040F1	4BF4F9F4	F6F74040	40F14BF6	F8F1F5F9	404040F1
(1920)	4BF1F4F8	F1F040F1	F9F7F940	40F9F0F1	F140F5F8	4040F4F5	4BF1F9F9	F1F740F1	F6F64BF7	F0F3F1F4
(1960)	404040F3	4BF4F1F4	F1F960F1	F3F44BF7	F0F8F1F4	40F1F9F2	4BF6F6F9	F0F74040	60F04BF8	F6F8F9F3
(2000)	60F1F0F3	4BF0F2F6	F1F44060	F2F54BF9	F6F5F9F3	404040F4	4BF2F8F3	F1F24060	F3F14BF6	F8F2F0F0
(2040)	40F2F1F4	4BF3F6F1	F1F440F2	F1F84BF4	F8F6F8F7	404040F1	4BF1F7F3	F2F94060	F3F84BF9	F3F3F4F1
(2080)	4060F2F8	4BF1F3F4	F5F64040	60F04BF2	F5F8F4F0	404040F0	4BF6F5F9	F4F64040	40F14BF0	F5F7F9F0
(2120)	404040F0	4BF9F1F1	F9F74040	40F14BF1	F4F1F6F0					

FILE 2 RECORD 9 9 46 9 0 LENGTH 2140BYTES

(0)	40F1F9F7	F94040F9	F0F2F340	F4F94040	F3F24BF3	F6F0F6F7	4040F6F2	4BF2F0F0	F5F14040	60F44BF1
(40)	F8F5F0F5	4060F4F2	4BF5F9F1	F3F34040	F6F54BF7	F7F9F5F5	404060F2	4BF2F1F7	F2F24060	F2F04BF9
(80)	F1F5F1F8	404060F3	4BF5F7F9	F0F44040	60F14BF9	F6F7F8F3	4060F2F1	4BF6F7F6	F1F54040	F7F54BF5
(120)	F1F1F5F5	4040F6F9	4BF0F6F0	F1F94040	60F34BF8	F4F9F2F4	4060F3F4	4BF3F3F5	F4F64060	F1F74BF6
(160)	F2F9F1F2	404060F1	4BF9F3F0	F5F34040	40F04BF2	F8F6F1F5	404040F0	4BF6F9F2	F5F84040	40F04BF8
(200)	F1F6F5F9	404040F0	4BF7F0F0	F1F440F1	F9F7F940	40F9F0F2	F340F5F0	4040F3F2	4BF3F6F0	F5F54040
(240)	F6F24BF6	F7F5F9F2	404060F5	4BF7F3F1	F4F94060	F4F34BF8	F7F8F4F9	4040F6F5	4BF8F0F8	F6F84040
(280)	60F24BF2	F3F4F8F0	4060F2F0	4BF8F6F4	F2F54040	60F34BF1	F3F2F7F6	404060F3	4BF4F9F6	F6F94060
(320)	F2F34BF0	F1F4F2F4	4040F7F6	4BF7F3F1	F0F34040	F6F94BF0	F7F3F1F0	404060F5	4BF2F2F4	F9F74060
(360)	F3F44BF8	F7F9F2F0	4060F1F7	4BF5F8F1	F4F04040	60F14BF9	F4F4F9F6	404040F0	4BF5F7F9	F1F14040
(400)	40F04BF3	F7F5F5F0	404040F0	4BF7F7F2	F4F04040	40F04BF8	F9F7F7F9	40F1F9F7	F94040F9	F0F2F340
(440)	F5F14040	F3F24BF3	F6F0F4F1	4040F6F3	4BF1F1F5	F6F74040	60F54BF5	F3F0F3F5	4060F4F3	4BF9F3F6
(480)	F8F74040	F6F54BF8	F3F8F2F4	404060F2	4BF2F5F2	F4F04060	F2F04BF8	F1F3F4F2	404060F2	4BF7F2F2
(520)	F5F74040	60F34BF2	F7F7F9F5	4060F2F3	4BF1F2F3	F4F54040	F7F74BF1	F0F4F2F3	4040F6F9	4BF0F8F6
(560)	F5F14040	60F54BF0	F0F7F6F1	4060F3F4	4BF7F3F8	F8F94060	F1F74BF5	F3F3F6F6	404060F1	4BF9F5F9
(600)	F3F94040	40F04BF3	F0F9F1F2	404040F0	4BF2F3F6	F4F74040	40F04BF5	F6F9F5F7	404040F0	4BF3F9F5
(640)	F0F640F1	F9F7F940	40F9F0F2	F340F5F2	4040F3F2	4BF3F6F0	F2F94040	F6F24BF7	F8F2F2F7	404060F4

(760)	4BF2F8F6	F7F44040	F6F94BF1	F0F0F4F0	404060F4	4BF3F9F2	F0F34060	F3F44BF3	F6F7F8F3	4060F1F7
(800)	4BF4F8F5	F9F04040	60F14BF9	F7F3F7F9	404040F0	4BF7F7F2	F5F24040	40F04BF5	F4F8F8F3	404040F0
(840)	4BF3F6F7	F9F74040	40F04BF6	F6F4F6F7	40F1F9F7	F94040F9	F0F2F340	F5F34040	F3F24BF3	F6F0F1F7
(880)	4040F6F1	4BF1F6F7	F6F74040	60F44BF6	F5F2F2F1	4060F4F0	4BF5F3F3	F4F94040	F6F54BF8	F9F8F6F6
(920)	404060F2	4BF2F8F7	F6F24060	F2F04BF7	F1F2F0F2	404060F4	4BF7F3F0	F9F94040	60F24BF3	F6F4F5F9
(960)	4060F1F9	4BF8F2F1	F4F74040	F7F34BF5	F2F9F4F5	4040F6F9	4BF1F1F4	F7F94040	60F44BF3	F4F9F3F6
(1000)	4060F3F3	4BF4F5F3	F1F74060	F1F74BF4	F3F8F1F3	404060F1	4BF9F8F8	F1F84040	40F04BF8	F5F5F2F8
(1040)	404040F0	4BF4F3F9	F4F64040	40F04BF2	F7F9F2F8	404040F0	4BF9F7F4	F2F240F1	F9F7F940	40F9F0F2
(1080)	F340F5F4	4040F3F2	4BF3F6F0	F0F54040	F6F04BF5	F9F9F1F7	404060F4	4BF0F4F3	F0F04060	F3F84BF7
(1120)	F6F1F7F7	4040F6F5	4BF9F2F9	F5F24040	60F24BF3	F0F5F2F6	4060F2F0	4BF6F6F1	F4F64040	60F54BF3
(1160)	F3F0F3F5	404060F1	4BF7F3F7	F7F44060	F1F84BF1	F0F0F3F1	4040F7F2	4BF0F5F3	F4F14040	F6F94BF1
(1200)	F2F9F6F7	404060F3	4BF8F1F6	F9F54060	F3F24BF5	F4F4F8F0	4060F1F7	4BF3F9F0	F3F34040	60F24BF0
(1240)	F0F2F5F6	404040F0	4BF5F5F5	F9F54040	40F04BF5	F1F4F0F0	404040F0	4BF6F8F1	F8F64040	40F04BF4
(1280)	F4F1F2F0	40F1F9F7	F94040F9	F0F2F340	F5F54040	F3F24BF3	F5F9F9F2	4040F5F9	4BF6F0F8	F7F34040
(1320)	60F34BF7	F3F3F6F0	4060F3F7	4BF3F9F6	F3F94040	F6F54BF9	F6F0F8F2	404060F2	4BF3F2F2	F9F04060
(1360)	F2F04BF6	F1F0F9F8	404060F6	4BF3F5F2	F0F84040	60F14BF4	F1F0F7F0	4060F1F6	4BF7F8F5	F4F14040
(1400)	F7F04BF4	F6F7F8F7	4040F6F9	4BF1F4F5	F0F54040	60F34BF5	F8F4F0F4	4060F3F2	4BF0F5F1	F8F94060
(1440)	F1F74BF3	F4F2F5F2	404060F2	4BF0F1F6	F9F24040	40F04BF8	F6F6F0F6	404040F0	4BF7F1F9	F4F44040
(1480)	40F04BF2	F2F2F8F8	404040F0	4BF5F2F1	F5F140F1	F9F7F940	40F9F0F2	F340F5F6	4040F3F2	4BF3F5F9
(1520)	F8F04040	F5F74BF6	F9F3F4F6	404060F3	4BF4F5F9	F9F44060	F3F64BF6	F6F6F9F2	4040F6F5	4BF9F9F2
(1560)	F5F54040	60F24BF3	F4F0F5F6	4060F2F0	4BF5F6F0	F5F94040	60F84BF2	F9F9F0F9	404060F1	4BF1F1F9
(1600)	F3F84060	F1F64BF1	F0F6F3F3	4040F6F8	4BF4F4F8	F7F14040	F6F94BF1	F6F0F9F2	404060F3	4BF4F3F1
(1640)	F9F94060	F3F24BF3	F9F0F3F5	4060F1F7	4BF2F9F4	F6F84040	60F24BF0	F3F1F2F6	404040F0	4BF5F8F2
(1680)	F6F84040	40F04BF4	F0F9F4F6	404040F0	4BF3F5F0	F5F04040	40F04BF5	F5F2F9F8	40F1F9F7	F94040F9
(1720)	F0F2F340	F5F74040	F3F24BF3	F5F9F6F6	4040F5F9	4BF7F5F4	F0F14040	60F24BF1	F4F6F4F6	4060F3F9
(1760)	4BF0F1F6	F1F84040	F6F64BF0	F2F4F7F2	404060F2	4BF3F5F8	F2F44060	F2F04BF5	F1F0F2F9	404060F6
(1800)	4BF2F7F0	F7F04040	40F04BF2	F1F1F7F7	4060F1F8	4BF5F0F5	F8F94040	F7F14BF4	F0F0F8F7	4040F6F9
(1840)	4BF1F7F7	F2F84040	60F24BF0	F5F7F2F8	4060F3F3	4BF1F2F3	F0F14060	F1F74BF2	F4F6F8F3	404060F2
(1880)	4BF0F4F5	F5F94040	40F04BF9	F3F8F0F4	404040F0	4BF9F4F1	F7F44040	40F04BF3	F3F7F3F9	404040F0
(1920)	4BF7F4F2	F5F640F1	F9F7F940	40F9F0F2	F340F5F8	4040F3F2	4BF3F5F9	F5F44040	F6F24BF6	F7F7F2F0
(1960)	404060F2	4BF3F4F2	F4F94060	F3F84BF9	F8F2F1F9	4040F6F6	4BF0F5F7	F3F24040	60F24BF3	F7F5F9F2
(2000)	4060F2F0	4BF4F6F0	F0F74040	60F34BF3	F8F0F1F3	404040F0	4BF0F3F3	F4F34060	F1F84BF5	F2F2F1F2
(2040)	4040F7F3	4BF8F6F1	F8F64040	F6F94BF1	F9F4F1F4	404060F2	4BF1F4F0	F3F74060	F3F14BF8	F5F5F0F2
(2080)	4060F1F7	4BF1F9F8	F9F74040	60F24BF0	F5F9F9F0	404040F0	4BF7F7F1	F1F64040	40F14BF3	F3F5F2F3
(2120)	404040F0	4BF4F7F4	F9F44040	40F04BF7	F9F4F1F5					

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
2	46	47	2140	0	0	0	0	0	0

FILE 3 RECORD 1 LENGTH 2140BYTES

(0)	40F1F9F7	F94040F9	F140F040	40F04040	F4F34BF1	F0F7F9F9	4040F6F6	4BF8F1F5	F5F54040	60F14BF7
(40)	F3F4F8F0	4060F3F8	4BF6F2F8	F8F34040	F6F64BF1	F2F9F3F3	404060F2	4BF4F1F4	F5F14060	F2F04BF3
(80)	F5F0F7F8	404040F0	4BF6F8F6	F2F34040	40F04BF6	F7F9F7F2	4060F1F8	4BF2F7F8	F0F44040	F7F74BF2
(120)	F0F3F6F2	4040F6F9	4BF2F3F2	F0F24040	60F14BF4	F8F7F2F9	4060F3F0	4BF0F2F3	F1F54060	F1F74BF0
(160)	F9F4F6F1	404060F2	4BF0F9F1	F0F54040	40F04BF8	F3F9F5F8	404040F0	4BF3F1F8	F7F64040	40F04BF3
(200)	F4F0F2F8	404040F1	4BF1F7F1	F6F940F1	F9F7F940	40F9F140	F04040F1	4040F4F3	4BF1F0F7	F8F64040
(240)	F6F64BF8	F4F3F3F2	404060F0	4BF6F9F6	F2F74060	F3F94BF9	F8F3F4F2	4040F6F6	4BF1F6F3	F3F24040
(280)	60F24BF4	F3F2F2F5	4060F2F0	4BF3F0F0	F8F44040	40F04BF6	F8F0F0F0	404040F1	4BF7F3F5	F9F84060
(320)	F1F94BF6	F8F2F5F8	4040F7F7	4BF8F9F6	F1F84040	F6F94BF2	F5F0F4F5	404060F0	4BF5F9F6	F8F04060
(360)	F3F04BF8	F8F3F3F0	4060F1F7	4BF0F4F6	F7F04040	60F24BF1	F0F5F3F2	404040F0	4BF4F4F1	F4F94040
(400)	40F04BF5	F1F5F6F4	404040F0	4BF6F9F8	F8F94040	40F04BF2	F6F0F2F7	40F1F9F7	F94040F9	F140F040
(440)	40F24040	F4F34BF1	F0F7F7F4	4040F6F5	4BF5F4F9	F7F94040	40F04BF0	F0F7F5F8	4060F3F9	4BF6F4F7
(480)	F2F34040	F6F64BF1	F9F7F7F5	404060F2	4BF4F4F9	F9F94060	F2F04BF2	F5F0F9F8	404060F0	4BF6F4F7
(520)	F9F64040	40F24BF4	F5F7F5F7	4060F1F9	4BF3F9F6	F2F54040	F7F64BF6	F1F1F0F5	4040F6F9	4BF2F6F9
(560)	F3F84040	40F04BF0	F0F6F6F2	4060F3F1	4BF1F6F5	F5F94060	F1F64BF9	F9F8F7F7	404060F2	4BF1F1F9
(600)	F5F64040	40F04BF4	F1F6F1F9	404040F0	4BF4F4F4	F8F94040	40F04BF4	F2F5F4F1	404040F0	4BF6F0F7
(640)	F8F240F1	F9F7F940	40F9F140	F04040F3	4040F4F3	4BF1F0F7	F6F24040	F6F44BF0	F6F8F3F5	404040F0
(680)	4BF3F7F9	F6F74060	F3F94BF6	F6F6F2F6	4040F6F6	4BF2F3F2	F6F34040	60F24BF4	F6F7F7F5	4060F2F0
(720)	4BF2F0F1	F2F04040	60F24BF1	F6F4F2F8	404040F2	4BF8F4F7	F4F24060	F1F94BF4	F6F5F0F5	4040F7F5
(760)	4BF3F5F5	F8F24040	F6F94BF2	F8F8F8F1	404040F0	4BF3F3F9	F5F34060	F3F14BF7	F6F1F6F0	4060F1F6
(800)	4BF9F5F0	F8F24040	60F24BF1	F3F3F7F9	404040F0	4BF4F9F7	F0F34040	40F04BF4	F5F6F6F1	404040F0
(840)	4BF3F2F8	F6F54040	40F04BF3	F4F7F6F1	40F1F9F7	F94040F9	F140F040	40F44040	F4F34BF1	F0F7F4F8
(880)	4040F6F2	4BF1F3F4	F3F44040	40F04BF6	F5F7F2F2	4060F3F7	4BF9F6F0	F0F54040	F6F64BF2	F6F7F9F4

(1000)	4060F3F1	4BF4F2F0	F2F14060	F1F64BF9	F0F2F8F6	404060F2	4BF1F4F8	F0F04040	40F14BF2	F3F5F5F1
(1040)	404040F0	4BF9F5F6	F4F94040	40F04BF3	F0F4F6F4	404040F0	4BF8F3F6	F0F740F1	F9F7F940	40F9F140
(1080)	F04040F5	4040F4F3	4BF1F0F7	F3F64040	F5F94BF4	F3F2F7F5	404040F1	4BF3F7F7	F6F64060	F3F54BF7
(1120)	F3F6F0F4	4040F6F6	4BF3F0F3	F7F04040	60F24BF5	F0F3F3F1	4060F2F0	4BF1F0F1	F9F04040	60F64BF8
(1160)	F7F0F9F4	404040F3	4BF8F8F0	F9F74060	F1F54BF6	F3F4F1F4	4040F6F9	4BF3F6F4	F7F84040	F6F94BF3
(1200)	F2F9F1F7	404040F1	4BF3F2F7	F8F84060	F3F14BF0	F1F0F1F6	4060F1F6	4BF8F5F4	F8F94040	60F24BF1
(1240)	F6F2F1F9	404040F1	4BF6F6F7	F9F94040	40F14BF3	F3F1F8F7	404040F0	4BF3F2F7	F7F14040	40F14BF0
(1280)	F7F6F2F8	40F1F9F7	F94040F9	F140F040	40F64040	F4F34BF1	F0F7F2F4	4040F5F7	4BF1F6F0	F6F24040
(1320)	40F24BF4	F2F9F1F6	4060F3F1	4BF1F7F9	F3F84040	F6F64BF3	F3F9F8F9	404060F2	4BF5F2F1	F1F24060
(1360)	F2F04BF0	F5F2F3F8	404060F9	4BF1F7F9	F2F84040	40F44BF9	F5F0F2F8	4060F1F1	4BF1F2F7	F0F14040
(1400)	F6F54BF1	F6F3F4F6	4040F6F9	4BF3F5F0	F0F94040	40F24BF4	F3F3F4F4	4060F2F8	4BF5F8F6	F1F54060
(1440)	F1F64BF8	F0F6F9F0	404060F2	4BF1F7F6	F3F64040	40F04BF3	F7F9F5F8	404040F0	4BF1F9F5	F4F54040
(1480)	40F04BF2	F8F8F7F0	404040F0	4BF9F5F3	F1F640F1	F9F7F940	40F9F140	F04040F7	4040F4F3	4BF1F0F7
(1520)	F1F24040	F5F64BF3	F4F7F8F9	404040F2	4BF2F3F8	F6F04060	F2F84BF6	F4F4F0F4	4040F6F6	4BF3F7F6
(1560)	F5F34040	60F24BF5	F3F8F9F3	4060F2F0	4BF0F0F2	F9F34060	F1F04BF0	F2F8F6F5	404040F4	4BF7F7F7
(1600)	F5F34040	60F84BF6	F4F1F1F1	4040F6F3	4BF2F5F3	F8F84040	F6F94BF3	F7F1F5F2	404040F2	4BF2F7F5
(1640)	F0F64060	F2F64BF9	F2F6F2F0	4060F1F6	4BF7F5F8	F9F04040	60F24BF1	F9F0F5F2	404040F1	4BF0F6F3
(1680)	F8F54040	40F04BF7	F6F6F0F3	404040F0	4BF5F9F3	F0F44040	40F04BF8	F1F8F0F1	40F1F9F7	F94040F9
(1720)	F140F040	40F84040	F4F34BF1	F0F6F9F8	4040F5F4	4BF2F0F6	F5F04040	40F04BF8	F5F5F4F8	4060F2F5
(1760)	4BF5F9F4	F1F04040	F6F64BF4	F1F3F6F2	404060F2	4BF5F5F6	F7F74060	F1F94BF9	F5F3F5F7	4060F1F2
(1800)	4BF2F0F7	F1F24040	40F34BF4	F1F2F2F5	404060F5	4BF6F4F0	F5F34040	F5F94BF9	F5F7F0F5	4040F6F9
(1840)	4BF3F9F3	F4F54040	40F04BF9	F0F4F1F6	4060F2F5	4BF2F6F9	F3F34060	F1F64BF7	F1F0F8F9	404060F2
(1880)	4BF2F0F4	F6F64040	40F04BF7	F4F8F5F6	404040F0	4BF4F7F3	F6F84040	40F04BF5	F6F0F2F8	404040F0
(1920)	4BF8F5F7	F5F640F1	F9F7F940	40F9F140	F040F1F0	404040F7	4BF6F0F6	F8F24040	F5F34BF3	F7F1F2F5
(1960)	404040F0	4BF3F2F4	F7F34060	F2F34BF5	F6F1F5F1	4040F6F6	4BF4F6F6	F6F04040	60F24BF5	F8F1F9F1
(2000)	4060F1F9	4BF8F8F4	F1F94060	F1F34BF0	F9F5F3F4	404040F2	4BF9F0F6	F6F34040	60F34BF6	F7F7F3F2
(2040)	4040F5F8	4BF3F4F9	F1F84040	F6F94BF4	F2F5F1F8	404040F0	4BF3F4F8	F6F04060	F2F34BF8	F1F6F0F7
(2080)	4060F1F6	4BF6F4F3	F2F54040	60F24BF2	F2F4F5F5	404040F0	4BF4F5F3	F6F84040	40F04BF4	F3F6F3F6
(2120)	404040F0	4BF8F9F9	F7F74040	40F04BF3	F0F2F5F2					

FILE 3 RECORD 29 32 LENGTH 2140BYTES

(0)	40F1F9F7	F94040F9	F140F640	40F14040	F2F64BF3	F1F2F7F4	40F1F1F9	4BF7F4F2	F4F54040	60F74BF3
(40)	F8F5F1F4	404060F6	4BF2F3F7	F7F740F1	F1F94BF3	F9F4F8F3	4060F1F0	4BF1F3F8	F7F54060	F1F04BF8
(80)	F7F4F0F2	404040F0	4BF3F4F7	F6F34040	40F24BF7	F5F3F6F1	404040F4	4BF6F3F6	F2F540F1	F2F04BF1
(120)	F4F4F3F9	40F1F2F0	4BF3F1F6	F9F34040	60F34BF5	F2F9F2F6	404060F2	4BF9F7F6	F0F84040	60F54BF1
(160)	F8F5F3F6	404060F4	4BF8F5F3	F7F94040	40F04BF6	F8F6F5F4	404040F0	4BF7F3F9	F2F34040	40F04BF6
(200)	F9F0F3F2	404040F1	4BF5F5F5	F0F140F1	F9F7F940	40F9F140	F64040F2	4040F2F6	4BF3F1F2	F6F240F1
(240)	F2F04BF8	F5F5F0F1	404060F7	4BF2F2F4	F3F14040	60F94BF0	F0F7F3F2	40F1F1F9	4BF7F0F6	F8F24060
(280)	F1F04BF1	F5F9F2F2	4060F1F0	4BF9F1F9	F6F54040	40F14BF1	F4F8F1F9	404040F2	4BF9F3F4	F9F24040
(320)	40F14BF9	F1F2F3F3	40F1F2F1	4BF4F5F7	F8F640F1	F2F04BF6	F3F2F3F8	404060F3	4BF4F2F0	F8F84040
(360)	60F44BF2	F5F2F9F6	404060F5	4BF1F9F3	F5F34040	60F44BF8	F5F0F9F3	404040F0	4BF7F7F0	F4F24040
(400)	40F04BF8	F4F8F5F9	404040F1	4BF3F4F7	F3F84040	40F34BF2	F8F8F1F9	40F1F9F7	F94040F9	F140F640
(440)	40F34040	F2F64BF3	F1F2F4F8	40F1F2F2	4BF9F7F9	F3F84040	60F94BF2	F4F1F4F7	404060F8	4BF4F4F1
(480)	F9F640F1	F2F04BF0	F1F9F9F4	4060F1F0	4BF1F7F9	F5F84060	F1F04BF9	F6F6F3F5	404040F2	4BF9F5F9
(520)	F4F34040	40F04BF9	F3F8F1F1	404040F2	4BF5F2F4	F3F940F1	F2F34BF6	F3F1F0F6	40F1F2F0	4BF9F4F9
(560)	F0F44040	60F44BF2	F9F7F5F0	404060F3	4BF9F1F5	F4F04040	60F54BF2	F0F2F1F0	404060F4	4BF8F4F7
(600)	F9F84040	40F14BF0	F3F4F2F6	404040F0	4BF9F8F2	F8F14040	40F14BF0	F7F9F6F0	404040F1	4BF7F2F6
(640)	F3F340F1	F9F7F940	40F9F140	F64040F4	4040F2F6	4BF3F1F2	F3F640F1	F2F44BF7	F5F7F6F3	404060F9
(680)	4BF2F2F8	F1F14040	60F74BF4	F2F7F2F3	40F1F2F0	4BF3F3F4	F2F04060	F1F04BF1	F9F9F8F3	4060F1F1
(720)	4BF0F1F4	F1F24040	40F44BF4	F2F3F4F3	404040F0	4BF9F7F1	F7F24040	40F34BF5	F8F6F8F9	40F1F2F5
(760)	4BF3F2F3	F1F740F1	F2F14BF2	F6F6F9F2	404060F4	4BF2F3F0	F3F74040	60F34BF3	F9F7F6F0	404060F5
(800)	4BF2F1F1	F1F04040	60F44BF8	F4F4F9F5	404040F0	4BF6F9F9	F9F74040	40F04BF7	F1F4F6F2	404040F0
(840)	4BF6F5F3	F6F94040	40F04BF8	F1F3F4F2	40F1F9F7	F94040F9	F140F640	40F54040	F2F64BF3	F1F2F2F4
(880)	40F1F2F5	4BF9F8F6	F7F24040	60F94BF6	F1F4F7F5	4060F1F0	4BF3F1F0	F0F040F1	F2F04BF6	F4F9F5F8
(920)	4060F1F0	4BF2F1F9	F9F64060	F1F14BF0	F6F2F9F9	404040F5	4BF3F3F7	F1F34040	40F04BF6	F0F5F2F2
(960)	404040F0	4BF7F5F2	F9F940F1	F2F64BF7	F8F0F0F7	40F1F2F1	4BF5F8F6	F0F24040	60F44BF3	F6F4F1F0
(1000)	404060F4	4BF6F6F4	F5F64040	60F54BF2	F2F0F5F1	404060F4	4BF8F4F1	F8F44040	40F04BF4	F4F0F1F1
(1040)	404040F0	4BF3F5F5	F5F64040	40F14BF2	F5F5F0F5	404040F0	4BF5F3F3	F2F240F1	F9F7F940	40F9F140
(1080)	F64040F6	4040F2F6	4BF3F1F2	F1F240F1	F2F54BF8	F1F5F9F2	404060F8	4BF9F8F3	F7F14040	60F54BF9
(1120)	F4F1F4F8	40F1F2F0	4BF9F6F6	F1F04060	F1F04BF2	F3F9F9F8	4060F1F1	4BF1F1F2	F9F64040	40F44BF8
(1160)	F4F9F8F2	404040F1	4BF2F5F6	F2F74040	40F54BF1	F7F1F4F8	40F1F2F6	4BF2F9F9	F8F240F1	F2F14BF9
(1200)	F0F6F3F2	404060F4	4BF0F8F4	F1F94040	60F24BF6	F9F6F3F4	404060F5	4BF2F3F0	F3F44040	60F44BF8
(1240)	F3F8F6F5	404040F0	4BF4F2F1	F4F64040	40F04BF4	F8F1F0F3	404040F1	4BF3F7F2	F2F94040	40F24BF0
(1280)	F1F3F3F8	40F1F9F7	F94040F9	F140F640	40F74040	F2F64BF3	F1F1F9F8	40F1F2F3	4BF6F3F8	F2F64060

```
(  1400)  F2F44BF4  F6F5F1F3  40F1F2F2  4BF2F2F7  F8F44040  60F54BF5  F6F5F5F1  404060F3  4BF3F5F0  F2F04040
(  1440)  60F54BF2  F4F0F5F9  404060F4  4BF8F3F5  F3F74040  40F04BF5  F6F0F6F6  404040F0  4BF6F4F9  F1F14040
(  1480)  40F14BF0  F7F6F7F1  404040F2  4BF4F1F4  F4F340F1  F9F7F940  40F9F140  F64040F8  4040F2F6  4BF3F1F1
(  1520)  F8F640F1  F2F34BF2  F0F8F9F6  404060F9  4BF9F8F1  F7F34040  60F84BF1  F1F0F4F7  40F1F2F1  4BF6F0F2
(  1560)  F5F04060  F1F04BF2  F7F9F6F6  4060F1F1  4BF2F1F6  F2F64040  40F14BF6  F0F6F4F6  404040F0  4BF2F9F7
(  1600)  F9F34040  40F34BF1  F0F5F7F9  40F1F2F3  4BF9F2F8  F8F040F1  F2F24BF5  F5F0F5F8  404060F4  4BF6F3F1
(  1640)  F6F84040  60F34BF7  F5F2F3F8  404060F5  4BF2F5F1  F2F64040  60F44BF8  F3F2F0F1  404040F0  4BF2F2F6
(  1680)  F1F64040  40F04BF3  F5F7F7F5  404040F2  4BF1F6F7  F0F54040  40F24BF7  F7F6F9F4  40F1F9F7  F94040F9
(  1720)  F140F640  40F94040  F2F64BF3  F1F1F7F4  40F1F2F3  4BF6F2F3  F2F54060  F1F24BF7  F9F6F6F6  4060F1F0
(  1760)  4BF0F5F6  F7F740F1  F2F14BF9  F2F2F3F9  4060F1F0  4BF2F9F9  F3F24060  F1F14BF2  F6F9F6F0  404040F1
(  1800)  4BF7F0F0  F8F74040  60F24BF4  F9F7F3F4  404040F1  4BF2F1F2  F8F440F1  F2F44BF7  F2F3F4F3  40F1F2F2
(  1840)  4BF8F7F4  F5F24040  60F54BF9  F0F9F8F3  404060F4  4BF6F2F4  F9F34040  60F54BF2  F6F2F3F6  404060F4
(  1880)  4BF8F2F8  F5F64040  40F04BF5  F5F1F6F8  404040F0  4BF4F5F9  F6F74040  40F04BF9  F8F4F9F8  404040F2
(  1920)  4BF7F3F0  F3F640F1  F9F7F940  40F9F140  F640F1F0  4040F2F6  4BF3F1F1  F6F140F1  F2F44BF2  F3F1F3F8
(  1960)  4060F1F1  4BF8F6F2  F6F14040  60F94BF0  F5F3F0F7  40F1F2F2  4BF2F4F3  F4F04060  F1F04BF3  F1F8F8F5
(  2000)  4060F1F1  4BF3F2F4  F1F04040  40F14BF9  F8F7F9F8  404060F1  4BF5F4F3  F7F64040  40F24BF2  F7F1F0F3
(  2040)  40F1F2F5  4BF1F6F6  F7F040F1  F2F34BF1  F9F9F6F9  404060F5  4BF4F5F4  F5F24040  60F44BF1  F4F7F7F2
(  2080)  404060F5  4BF2F7F3  F8F84040  60F44BF8  F2F5F0F3  404040F0  4BF3F2F8  F4F04040  40F04BF4  F7F8F4F6
(  2120)  404040F0  4BF7F5F3  F0F84040  40F34BF1  F4F6F2F6

          FILE    INPUT     DATA RECORDS     MAX.          READ ERROR SUMMARY          INPUT RETRIES
                  RECS.       INPUT          SIZE       PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
              3      32        33            2140         0       0       0       0       0       0

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

 START TIME 10/14/81  20:19:48        STOP TIME 10/14/81  20:20:03
```

```
$$
$ASS IN MT3 OUT MT4
```

STP P78-2

UCSD CHARGED PARTICLE DET AVERAGE

79-007A-11B SPMS-00523

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 11/70 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
DR005889	DS005889	D047130	1 - 4	03/22/79 - 03/31/79

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

UCSD CHARGED PARTICLE DETECTOR

79-007A-11B

This data set catalog consists of 1 tape(s). The tape(s) are 9 track, 1600 bpi, ascii with 4 file(s) of data. The time span D and C numbers are as follows:

D#	C#	TIME SPAN
D-47130	C-22002	3/22/79, 3/31/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 79-009A-11B

DATE DATA RECEIVED: 12/31/81

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:	1 mag Tape

SATELLITE NAME/NSDF NAME: ISEE-C

EXPERIMENT NAME: _____

DATA SET FULL NAME: HCSD Charged Particle Detector

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 47130 C-12002

REMARKS:

CDAW

DATA RECEIPT NOTIFICATION SENT? ☐

Linda Morain

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

Date Dec 29

NSSDC ID 79-007A-11B

CDAW DATA SET ENTRY

Date Rcvd : Dec 28 CDB : ϕb

Data Sent By : D. Nichols

Material Rcvd : 1 Tape, Documentation - see also 79-007A-11A for which this tape is a replacement.

Satellite/NSDF Name : Scatha (STP P78-2)

Data Set Name : UCSD Charged Particle Detector

☐ New Data Set ☐ Additions ☒ Replacements

Comments

Time Coverage : 81/09 - 20^h 90/20^h - 24^h

Tapes To be Returned to :

Completed By : M. Teague

NASA
National Aeronautics and Space Administration

DATA ANALYSIS WORKSHOP CENTER

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (please print)

1. Data Set Name: UCSD SCATHA PARTICLE DETECTOR		
2. Scientific Contact: DAVID NICHOLS	3. Telephone No. or Telex No.: 714-452-3317	
4. Address: C.A.S.S. C-011 / University of California at San Diego		
5. City: La Jolla	6. State: CA	7. ZIP Code or Country: 92093
8. Programmer Contact		

SECTION II. TAPE DESCRIPTION

1. No. of Tapes Submitted: 1	2. Tape Density: ☐ 800 bpi ☑ 1600 bpi
3. No. of Files (per tape): ~~6~~ 4	
4. No. of End of File Marks: ~~6~~ 4	5. No. of Tracks: ☐ 7 ☑ 9
6. Recording Parity: odd	7. Make and Model of Computer Used to Generate Tape: DEC PDP 11/70
8. Are tapes written in binary, coded or both? (e.g. BCD): ASCII coded	
9. What floating point representation is used? (e.g. CDC 64 bit): N.A.	
10. What integer representation is used?: N.A.	
11. No. of Physical Records (per file): see attached page	
12. Are original tapes to be returned? ☑ Yes ☐ No	
13. Start and Stop Time of Each File (If more space is needed, please attach.): see attached page	

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

SECTION IV. TO BE FILLED IN BY DAWOC ONLY

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

COMPUTER TIME LOG

Machine: Modcomp

Satellite: 79-007A - 11A

Requester: Sawyer

TAPE OR ORBIT NUMBER	DATE SUBMITTED	LOG NO.	TAPE DRIVE	ACTUAL PAGES OR P/O	COMPUTER TIME EST.	COMPUTER TIME ACTUAL	COMMENTS
D-46907				50		14:46	
C-21954				8		19:05	
							For DMS
							Tapes: 1
							Mod time: 14:46
							P/O: 50
D-47130							Replacement (UP)
22002							
						6:41	
							Find time
							Divide # by 60
							+ 60 again

Our instrument on SCATHA has three sets of detectors, a high-energy (maximum energy 81keV) rotatable pair of ion and electron detectors (HI-I and HI-E), a low energy (maximum energy 1.6keV) rotatable pair of ion and electron detectors (LO-I AND LO-E) and a low energy ion detector that points perpendicular to the spin axis of the satellite (FIX). All detectors measure differential energy flux, which is here converted to distribution functions. Magnetometer data and the pitch angles for each detector are also included in each record.

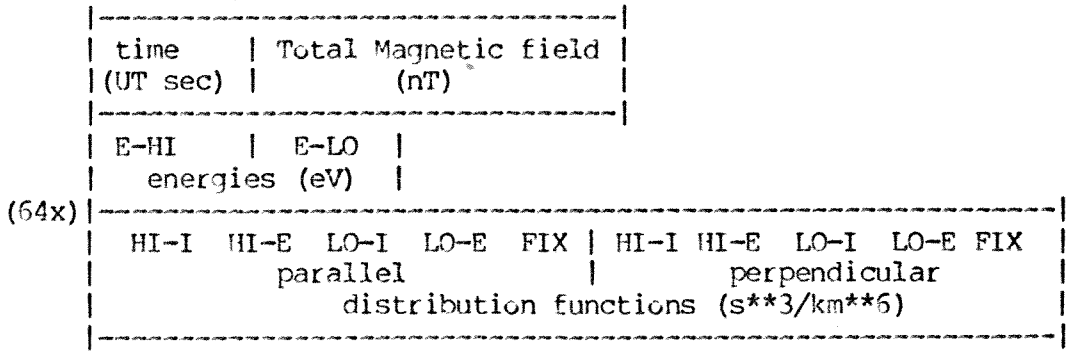
There are two different modes provided. A high time resolution mode is provided for the times of the most interest (Day 90 2000-2400 and Day 81 800-1600). This mode gives each of our measurements at quarter second intervals. A second mode gives 320 second averages in the directions parallel and perpendicular to the magnetic field.

In the high resolution mode logical records each have one second of data on them. The first seven items of information,the time, pitch angles and magnetic field are for the whole second, while the next four lines give information for each of the four energies the detector samples each second. Invalid distribution function values are flagged by a value of -9.99 while invalid high energies are flagged as -1.0.

	time	pitch angles (degrees)			Magnetic field (nT)		
	(UT sec)	HI	LO	FIX	BX	BY	BZ
(4x)	E-HI	E-LO	HI-I	HI-E	LO-I	LO-E	FIX
	energies (eV)		distribution functions (s**3/km**6)				

These values are ASCII coded, eight characters per field (decimal point included). A FORTRAN program would read a logical record with a 28F8.0 FORMAT. There are 16 logical records per physical record, corresponding to an actual telemetry record. Each logical record has 4480 bytes.

The averaging mode records are formatted as follows.



These are also ASCII coded, eight characters per field. There is one logical record per physical record. Each record has 6160 bytes. If our detector did not sample a given pitch angle range the invalid value -9.99 will be given for the distribution function. This is particulaly a problem with the high energy detector which spent most of the time parked along the spin axis.

file	day	start time	end time	of records	remarks
1	81	0800	1230	817	high res
		1030	1130		data gap
2	81	1230	1600	792	high res
3	90	2000	2400	900	high res
4	81	1600	2000		averaging

Participant: D. Nichols

Data Set Mnemonic: SC11

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-11B

Data Set Name: UCSD Charged Particle Detector

Principal Investigators: E. Whipple , University of Calif. San Diego.

Data Availability: YY/DDD/HH/MM/SS - YY/DDD/HH/MM/SS
79/081/08/00/15 - 79/081/16/00/15 for CDB-6A*
79/090/20/00/13 - 79/091/00/00/13 for CDB-6B

*320-S data available for CDB-6A only; Maximum availability is is 79/081/16/05/19 - 79/081/19/58/39

Data Time Interval: 1s or 320s

Description	Mnemonic	Units	Tuple
Pitch Angle for High-Energy Detector	SC11PAHI	deg	
Pitch Angle for Low-Energy Detector	SC11PALO	deg	
Pitch Angle for Fixed Detector	SC11PAFX	deg	
X-Component of Magnetic Field	SC11MFBX	nT	
Y-Component of Magnetic Field	SC11MFBY	nT	
Z-Component of Magnetic Field	SC11MFBZ	nT	
Energy for High-Energy Detector	SC11ENHI	eV	
Energy for Low-Energy Detector	SC11ENLO	eV	
Distribution Function for High-Energy Ions	SC11DFHI	s3/km6	
Distribution Function for High-Energy Electrons	SC11DFHE	s3/km6	
Distribution Function for Low-Energy Ions	SC11DFLI	s3/km6	
Distribution Function for Low-Energy Electrons	SC11DFLE	s3/km6	
Distribution Function for Fixed Low-Energy Ion Detector	SC11DFFX	s3/km6	

Participant: D. Nichols

Data Set Mnemonic: SC11

(cont'd)

Description	Mnemonic	Units	Tuple
DECOMMUTATOR for High-Energy Ions and Electrons	SC11DCHI	none	
DECOMMUTATOR for Low-Energy Ions and Electrons	SC11DCLO	none	
DECOMMUTATOR for Low-Energy Fixed Ion Detector	SC11DCFX	none	
Total Magnetic Field; 320-s Averages	SC11TMF	nT	
Energy for High-Energy Detector; 320-s Averages	SC11AVHI	eV	
Energy for Low-Energy Detector; 320-s Averages	SC11AVLO	eV	
Distribution Function for High-Energy Ions; Direction Parallel to the Magnetic Field; 320-s Averages	SC11PLHI	s3/km6	
Distribution Function for High-Energy Electrons; Direction Parallel to the Magnetic Field; 320-s Averages	SC11PLHE	s3/km6	
Distribution Function for Low-Energy Ions; Direction Parallel to the Magnetic Field; 320-s Averages	SC11PLLI	s3/km6	
Distribution Function for Low-Energy Electrons; Direction Parallel to the Magnetic Field; 320-s Average	SC11PLLE	s3/km6	
Distribution Function for Fixed Low-Energy Ion Detector; Direction Parallel to the Magnetic Field; 320-s Averages	SC11PLFX	s3/km6	
Distribution Function for High-Energy Ions; Direction Perpendicular to the Magnetic Field; 320-s Averages	SC11PDHI	s3/km6	
Distribution Function for High-Energy Electrons; Direction Perpendicular to the Magnetic Field; 320-s Averages	SC11PDHE	s3/km6	

Participant: D. Nichols

Data Set Mnemonic: SC11

(cont'd)

Description	Mnemonic	Units	Tuple
Distribution Function for Low-Energy Ions; Direction Perpendicular to the Magnetic Field; 320-s Averages	SC11PDLI	s3/km6	
Distribution Function for Low-Energy Electrons; Direction Perpendicular to the Magnetic Field; 320-s Averages	SC11PDLE	s3/km6	
Distribution Function for Fixed Low-Energy Ion Detector; Direction Perpendicular to the Magnetic Field; 320-s Averages	SC11PDFX	s3/km6	
DECOMMUTATOR for High-Energy Ions and Electrons; 320-s Averages	SC11DHAV	none	
DECOMMUTATOR for Low-Energy Ions and Electrons and for the Low-Energy Fixed Ion Detector; 320-s Averages	SC11DLAV	none	

Participant: D. Nichols Data Set Mnemonic: SC11

Decommutator Parameter Mnemonic: SC11DCHI

Applicable Parameter Mnemonics: SC11DFHI; SC11DFHE; SC11PAHI; SC11ENHI

Brief Description of Decommutator:

The decommutator contains the high-energy detector pitch angle in bytes 0 and 1, and the particle energy is contained in bytes 2 and 3. In order to maintain the required resolution, pitch angle is included in the decommutator as 10*SC11PAHI and energy is included as 1000.*ALOG(SC11ENHI*100.), where SC11PAHI and SC11ENHI are the pitch angle and energy applicable to the high-energy detector, respectively, and are included in the data base as separate parameters.

Logicons:

Logicons are of the form HIij where i is applicable to energy and j is applicable to pitch angle. For instance from the following table, HI21 corresponds to locally-mirroring 2.8 to 9.0 eV ions or electrons, and HI103 corresponds to intermediate pitch angles in the range 110 deg to 160 deg and 26 to 81.6 keV ions or electrons.

Values for i:

i	Minimum Energy (eV)	Maximum Energy (eV)
1	0.9	2.8
2	2.8	9.0
3	9.0	28.0
4	28.0	87.0
5	87.0	270.0
6	270.0	850.0
7	850.0	2650.0
8	2650.0	8320.0
9	8320.0	26000.0
10	26000.0	81600.0

Values for j:

j	Minimum Pitch Angle (deg)	Maximum Pitch Angle (deg)
1	70.0	110.0
2	20.0	70.0
3	110.0	160.0

Participant: D. Nichols Data Set Mnemonic: SC11

Decommuator Parameter Mnemonic: SC11DCLO

Applicable Parameter Mnemonics: SC11DFLI; SC11DFLE; SC11PALO; SC11ENLO

Brief Description of Decommutator:

As SC11DCHI except the low-energy detector parameters SC11PALO and SC11ENLO are used.

Logicons:

As SC11DCHI in format and of the form LOij.

Values of i:

i	Minimum Energy (eV)	Maximum Energy (eV)
1	0.09	0.24
2	0.24	0.65
3	0.65	1.75
4	1.75	4.7
5	4.7	12.6
6	12.6	34.0
7	34.0	91.0
8	91.0	245.0
9	245.0	660.0
10	660.0	1775.0

Values of j:

J	Minumum Pitch Angle (deg)	Maximum Pitch Angle (deg)
1	70.0	110.0
2	20.0	70.0
3	110.0	160.0

Participant: D. Nichols Data Set Mnemonic: SC11

Decommutator Parameter Mnemonic: SC11DCFX

Applicable Parameter Mnemonic: SC11DFFX; SC11PAFX; SC11ENL0

Brief Description of Decommutator:

As SC11DCHI except the fixed low-energy ion detector parameters SC11PAFX and SC11ENL0 are used.

Logicons:

As SC11DCHI in format and of the form FXij.

Values of i:

i	Minimum Energy (eV)	Maximum Energy (eV)
1	0.09	0.24
2	0.24	0.65
3	0.65	1.75
4	1.75	4.7
5	4.7	12.6
6	12.6	34.0
7	34.0	91.0
8	91.0	245.0
9	245.0	660.0
10	660.0	1775.0

Values of j:

J	Minimum Pitch Angle (deg)	Maximum Pitch Angle (deg)
1	70.0	110.0
2	20.0	70.0
3	110.0	160.0

Participant: D. Nichols Data Set Mnemonic: SC11

Decommutator Parameter Mnemonic: SC11DHAV

Applicable Parameter Mnemonics: SC11PLHI, SC11PLHE, SC11PDHI, SC11PDHE; SC11AVHI

Brief Description of Decommutator:

The decommutator contains the energy for the time-averaged (320s) data from the high-energy detector in byte position 2 and 3. This energy is included explicitly in the data base as SC11AVHI, and the decommutator contains energy as 1000.*AL010(SC11AVHI*100.).

Logicons:

Name	Minimum Energy (eV)	Maximum Energy (eV)
AHI1	0.9	2.8
AHI2	2.8	9.0
AHI3	9.0	28.0
AHI4	28.0	87.0
AHI5	87.0	270.0
AHI6	270.0	850.0
AHI7	850.0	2650.0
AHI8	2650.0	8320.0
AHI9	8320.0	26000.0
AHI10	26000.0	81600.0

Participant: D. Nichols Data Set Mnemonic: SC11

Decommutator Parameter Mnemonic: SC11DLAV

Applicable Parameter Mnemonics: SC11PLLI, SC11PLLE, SC11PLFX, SC11PDLI, SC11PDLE, SC11PDFX, SC11AVLO

Brief Description of Decommutator:

As SC11DHAV except the parameter SC11AVLO is used.

Logicons:

Name	Minimum Energy (eV)	Maximum Energy (eV)
AL01	0.09	0.24
AL02	0.24	0.65
AL03	0.65	1.75
AL04	1.75	4.7
AL05	4.7	12.6
AL06	12.6	34.0
AL07	34.0	91.0
AL08	91.0	245.0
AL09	245.0	660.0
AL010	660.0	1775.0

D-47130

```
$JOB  10:54:00
$ASS IN MT1
$NOP ************  ASCII LIST OF X-401  ****************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS FL=1=1 4

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   4480
```

8.00

```
 28815   90.0    41.3   138.8     2.0   -14.4   104.8     51.7    0.87   7.16    3.37   -9.99
  4.75   -9.99    51.6    0.87   7.25    3.36   -9.99    5.04   -9.99     51.5    0.87   7.25    3.3
  8   -9.99    5.39    9.48    51.4    0.87   7.08    3.38   -9.99    5.43    9.48   28816   89.7
    47.6   132.6     1.7    -2.9   105.6    -3.9   -0.33   -9.99   -9.99   -9.99   -9.99   -9.99
  -1.7   -0.29   -9.99   -9.99   -9.99   -9.99   -9.99     0.9   -0.23    9.91    7.96   -9.99   -9.99
     -9.99     4.0   -0.16    8.89    6.64   -9.99   -9.99   -9.99   28817   89.5    53.9   126.2
     1.7     8.7   105.3     7.4   -0.08    8.12    5.65   -9.99   -9.99   -9.99    11.4    0.00    8.
  27    4.99   -9.99   -9.99   -9.99    15.9    0.09    7.98    4.52   -9.99   -9.99   -9.99    21.2
     0.22    7.56    4.17   -9.99    3.17   -9.99   28818   89.3    60.0   120.1     1.4    20.0     1
  03.9    27.2    0.34    6.99    3.92   -9.99    7.63   -9.99    34.0    0.50    7.36    3.72   -9.9
  9    7.16   -9.99    41.9    0.67    7.09    3.53   -9.99    6.77   -9.99    50.9    0.87    7.05
    3.38   -9.99    6.41   -9.99   28819   89.2    66.4   113.7     1.4    31.5   101.2    61.2
  1.10    6.92    3.25   -9.99    6.05    9.30    73.1     1.36    6.89    3.12   -9.99    5.70   -9.99
       86.6     1.66    6.76    3.01   -9.99    5.31    8.94   102.1     2.00    6.48    2.94   -9.99
  4.90   -9.99   28820   89.0    72.7   107.3     1.1    42.5    97.0   119.9     2.39    5.83    2.
  80   -9.99    4.54   -9.99   140.3    2.83    5.79    2.72   -9.99    4.21   -9.99   163.6    3.34
     5.96    2.63   -9.99    3.97   -9.99   190.3    3.94    5.60    2.57    8.19    3.93    8.19
  28821   88.9    78.9   101.1     1.1    52.8    92.0   220.9    4.60    5.60    2.50   -9.99    3.9
  2    8.54   255.9    5.37    4.87    2.49    7.92    3.98    8.23   295.9    6.25    5.22    2.30
    -9.99    3.98    8.40   341.8    7.25    5.40    2.24    8.27    4.07    8.27   28822   88.7    8
  5.1    94.9     0.6    62.3    85.5   394.4    8.40    5.20    2.03    7.84    4.24    8.24   454.
  6    9.72    4.98    1.54    8.01    4.65    7.41   523.5   11.23    5.07    1.16   -9.99    4.73
   7.98   602.4   12.96    4.75    0.97    7.94    4.66    7.64   28823   88.7    91.4    88.6     0
  .8    71.5    78.3   692.7   14.96    4.77    0.64    7.88    4.64    7.64   796.2   17.23    4.85
     0.27    6.91    4.67    7.76   914.6   19.83    4.75    0.04    6.79    4.47    7.64  1050.2
  22.80    4.70   -0.21    6.97    4.13    6.67   28824   88.7    97.8    82.3     0.8    79.5    69.
  7  1205.5   26.26    4.68   -0.61    7.02    4.35    7.02  1383.3   30.10    4.72   -0.78    7.03
    4.11    7.27  1586.9   34.57    4.73   -1.05    6.31    3.94    7.45  1820.0   39.70    4.45   -0
  .89    6.79    3.74    7.36   28825   88.8   104.0    76.0     0.9    86.9    60.8  2087.0   45.5
  5    4.54   -0.91    6.54    3.57    7.07  2392.6   52.22    4.56   -0.95    5.95    3.39    7.03
  2742.5   60.09    4.58   -0.97    6.31    3.22    6.78  3143.2   68.77    4.45   -0.91    6.31    3.
  04    6.66   28826   88.9   110.2    69.8     0.9    92.8    51.0  3602.0   78.55    4.51   -0.96
     5.59    2.88    6.77  4127.3   90.10    4.47   -1.11    5.78    2.69    6.32  4728.7  103.32
  4.51   -1.15    5.36    2.48    6.13  5417.4  118.32    4.49   -1.24    5.72    2.32    6.02   288
  27   88.9   116.6    63.4     0.9    97.9    40.3  6206.0  135.65    4.28   -1.20   -9.99    2.27
    5.97  7108.9  155.43    4.16   -1.30    5.70    2.27    6.00  8142.6  178.09    3.95   -1.50    5
  .49    2.23    6.03  9326.4  203.93    3.53   -1.77    5.07    2.21    6.00   28828   89.0   122.9
     57.1     0.9   101.7    29.4 10681.7  233.42    3.63   -2.30    5.13    2.18    5.76 12233.6
  267.20    3.66   -2.62    5.13    2.11    5.68 14010.5  306.30    3.59   -2.70    4.89    2.04    5.
  41  16045.0  350.74    3.46   -2.37    5.14    1.97    5.62   28829   89.2   129.1    50.8     0.9
    104.4    18.1 18374.6  401.96    3.36   -2.80    4.66    1.90    5.61 21041.9  457.73    3.34   -
  2.84    4.55    1.82    5.30 24096.0  525.50    3.44   -2.82    4.73    1.74    5.13 27592.9  601.
  05    3.56   -2.97    4.69    1.55    5.02   28830   89.4   135.4    44.5     1.2   105.9     6.5
  31596.9  687.71    3.36   -2.94    4.69    1.19    5.12 36181.5  787.70    2.87   -3.17    4.71     0
  .60    5.05 41430.9  902.13    2.79   -3.64    4.61    0.09    4.99 47441.4 1033.23    2.66   -3.67
     4.43   -0.55    5.07

 TAPE NO.   1              FILE NO.   1
 RECORD   817              LENGTH   4480
```

12.49

```
  44991   95.4    97.2    83.1    19.8   118.3   106.8  54323.4 1184.33    3.54   -3.11    3.65   -
  0.09    3.82 62203.3 1355.42    3.38   -3.28   -9.99   -0.15    3.96 71225.8 1529.85    3.16   -3.5
  9    3.20   -0.17    3.98 81556.6 1777.60    2.74   -3.69    3.12   -0.20    4.07   44992   95.5
   103.3    77.0    20.1   129.0    93.5   120.9    2.00    7.51    1.25    9.60    4.88   11.47    1
  11.2    2.00    5.74    1.60    9.53    5.01   11.53   108.0    2.00    6.29    1.48    9.45    5.33
```

22 1.44 9.23 6.20 11.47 104.3 2.00 5.92 1.49 9.05 6.36 11.49 104.0
2.00 6.28 1.46 9.23 6.15 11.48 44994 95.7 115.9 64.5 20.4 146.5
62.9 103.7 2.00 6.10 1.51 -9.99 5.70 11.43 103.5 2.00 6.33 1.48 9.2
3 5.17 11.38 103.3 2.00 6.28 1.51 8.75 4.85 11.31 103.1 2.00 6.48
1.53 9.23 4.61 11.27 44995 95.7 122.2 58.2 20.1 152.4 46.3 103.0
2.00 5.81 1.46 9.45 4.42 11.23 102.9 2.00 6.29 1.57 9.05 4.33 11.14
102.8 2.00 5.33 1.54 9.05 4.29 11.00 102.7 2.00 6.18 1.46 8.75
4.11 10.97 44996 95.8 128.3 52.1 20.1 156.9 29.7 -3.9 -0.33 -9.99 -9.
99 -9.99 -9.99 -9.99 -1.7 -0.29 -9.99 -9.99 -9.99 -9.99 -9.99 1.0 -0.23
12.18 7.99 -9.99 -9.99 -9.99 4.0 -0.16 11.08 5.92 -9.99 -9.99 -9.99
44997 95.9 134.4 46.0 19.8 158.6 12.7 7.4 -0.08 10.35 4.53 -9.99 -9.9
9 -9.99 11.4 0.00 9.68 3.81 -9.99 -9.99 -9.99 15.9 0.09 9.28 3.39
-9.99 -9.99 -9.99 21.2 0.22 8.87 3.01 -9.99 5.61 -9.99 44998 96.1 14
0.5 40.0 20.1 159.2 -4.4 27.2 0.34 8.50 2.73 -9.99 5.52 -9.99 34.
0 0.50 8.15 2.49 -9.99 4.86 9.99 41.9 0.67 7.74 2.31 -9.99 4.93
-9.99 50.9 0.87 7.15 2.17 -9.99 4.55 -9.99 44999 96.2 146.7 33.9 20
.1 157.8 -21.6 61.2 1.10 6.59 2.00 -9.99 4.27 -9.99 73.1 1.36 6.80
1.83 -9.99 4.18 9.42 86.6 1.66 6.55 1.72 -9.99 3.78 9.99 102.1
2.00 6.14 1.56 -9.99 3.58 10.06 45000 96.5 152.9 27.8 20.4 154.5 -38.
8 119.9 2.39 6.01 1.26 8.93 3.28 9.80 140.3 2.83 5.57 1.01 8.48
2.46 9.94 163.6 3.34 4.96 0.87 8.64 -9.99 9.75 190.3 3.94 5.30 0
.82 8.49 -9.99 9.57 45001 96.7 159.0 21.8 20.4 149.2 -55.4 220.9 4.6
0 5.00 0.38 -9.99 -9.99 9.26 255.9 5.37 4.87 0.25 7.92 2.12 8.70
295.9 6.25 5.14 0.18 7.79 3.25 -9.99 341.8 7.25 -9.99 -0.02 -9.99 3.
42 8.14 45002 96.9 165.2 16.0 20.4 142.4 -71.8 394.4 8.40 4.20 -0.17
7.54 3.84 7.54 454.6 9.72 -9.99 -0.23 -9.99 4.34 7.71 523.5 11.23
4.26 -0.37 7.28 4.35 7.58 602.4 12.96 4.14 -0.30 7.16 4.28 7.76 450
03 97.2 170.8 10.9 20.7 133.5 -86.6 692.7 14.96 -9.99 -0.34 7.03 4.16
7.51 796.2 17.23 4.22 -0.48 -9.99 4.09 7.39 914.6 19.83 3.52 -0.74 6
.79 4.00 7.27 1050.2 22.80 4.12 -0.78 -9.99 3.92 7.45 45004 97.5 175.1
7.8 21.0 123.4 -100.6 1205.5 26.26 3.33 -1.04 6.85 4.26 7.45 1383.3
30.10 3.73 -1.33 -9.99 4.09 6.90 1586.9 34.57 3.96 -1.29 6.31 3.85 6.
78 1820.0 39.70 3.41 -1.25 6.66 3.56 6.66 45005 97.7 173.6 8.8 21.0
111.5 -113.3 2087.0 45.55 3.64 -1.49 6.37 3.24 6.77 2392.6 52.22 3.26 -
1.41 6.43 2.89 6.25 2742.5 60.00 3.58 -1.48 6.31 2.51 6.43 3143.2 68.
77 3.27 -1.69 5.71 2.16 6.31 45006 97.7 168.3 13.2 20.7 98.2 -125.1
3602.0 78.55 2.69 -1.83 6.07 1.92 6.29 4127.3 90.10 3.29 -2.00 5.78 1
.71 5.95 4728.7 103.32 3.26 -2.08 5.66 1.45 5.83 5417.4 118.32 3.22 -2.18
5.24 1.21 6.02

TAPE NO. 1 FILE NO. 2
RECORD 1 LENGTH 4480
12.48 44943 97.3 154.8 26.0 22.8 156.0 -45.3 692.7 14.96 4.33 -0.57 7.03
4.01 7.73 796.2 17.23 4.40 -0.46 -9.99 3.88 7.76 914.6 19.83 3.52 -0.8
5 7.09 3.73 7.09 1050.2 22.80 3.72 -0.88 -9.99 3.58 7.37 44944 97.6
160.8 20.2 23.1 149.8 -61.7 1205.5 26.26 3.81 -0.99 -9.99 3.92 -9.99 13
83.3 30.10 3.73 -1.07 -9.99 3.70 7.03 1586.9 34.57 3.66 -1.22 6.31 3.51
6.91 1820.0 39.70 3.41 -1.37 -9.99 3.31 7.03 44945 97.8 166.7 14.8
23.4 142.1 -77.7 2087.0 45.55 3.51 -1.24 6.07 3.13 6.67 2392.6 52.22 3.
74 -1.40 -9.99 3.03 6.73 2742.5 60.00 3.66 -1.47 -9.99 2.79 6.13 3143.2
68.77 3.39 -1.55 -9.99 2.28 6.75 44946 98.5 171.7 10.6 24.5 132.6 -
92.5 3602.0 78.55 2.69 -1.79 -9.99 2.01 6.37 4127.3 90.10 2.59 -1.93 5.4
8 1.74 6.32 4728.7 103.32 3.26 -1.87 -9.99 1.48 5.83 5417.4 118.32 2.85
-2.18 5.24 1.42 5.84 44947 98.8 174.2 8.8 24.8 121.3 -106.2 6206.0 13
5.65 3.22 -2.24 -9.99 1.16 5.60 7108.9 155.43 3.00 -2.24 -9.99 1.01 5.78
8142.6 178.09 3.15 -2.40 -9.99 0.85 5.49 9326.4 203.98 3.48 -2.60 -9.99
0.76 5.47 44948 99.1 171.3 10.9 25.1 109.1 -118.7 10681.7 233.42 3.47 -2.
79 4.95 0.66 5.25 12233.6 267.20 3.54 -2.85 -9.99 0.44 5.13 14010.5 306.30
3.61 -2.92 -9.99 0.34 4.72 16045.0 350.74 3.64 -3.01 -9.99 0.33 4.78
44949 99.3 166.0 15.5 25.1 95.2 -129.9 18374.6 401.96 3.74 -3.18 -9.99 0.1
8 4.48 21041.9 457.73 3.90 -3.16 4.07 -0.04 -9.99 24096.0 525.50 4.12 -3.00
-9.99 -0.16 -9.99 27592.9 601.05 4.19 -2.99 4.15 -0.27 4.15 44950 99.7 16
0.0 21.1 25.7 80.1 -132.4 31596.9 687.71 4.10 -2.80 -9.99 -0.38 -9.99 36181.
5 787.70 3.85 -2.77 -9.99 -0.59 3.63 41430.9 902.13 3.74 -2.79 -9.99 -0.68

.7 64.4 -148.0 54525.4 1164.55 3.55 -3.10 -9.99 -0.94 3.65 62203.3 1355.42 3.30
-3.30 -9.99 -0.94 3.87 71225.8 1529.85 3.09 -3.52 3.20 -0.93 3.90 81556.6 17
77.60 2.70 -3.76 3.12 -1.11 3.42 44952 100.0 147.9 32.8 25.7 47.8 -153.
0 120.9 2.00 7.47 1.30 9.05 3.57 8.75 111.2 2.00 5.87 1.72 8.75
-9.99 9.05 108.0 2.00 6.07 1.59 6.75 -9.99 -9.99 106.4 2.00 6.15 1
.58 9.36 -9.99 9.23 44953 100.2 141.9 38.8 25.7 30.9 -157.2 105.4 2.0
0 6.01 1.64 8.75 -9.99 9.05 104.8 2.00 6.16 1.59 -9.99 -9.99 8.75
104.3 2.00 6.02 1.65 8.75 -9.99 9.05 104.0 2.00 6.23 1.56 8.75 -9.
99 9.05 44954 100.3 135.6 45.0 25.4 13.1 -159.3 103.7 2.00 6.17 1.63
9.36 -9.99 9.23 103.5 2.00 6.37 1.64 9.23 -9.99 9.05 103.3 2.00
6.11 1.64 9.36 -9.99 9.05 103.2 2.00 5.63 1.58 9.71 -9.99 9.36 449
55 100.5 122.5 51.1 25.7 -4.1 -159.9 103.0 2.00 6.33 1.65 9.23 -9.99
9.23 102.9 2.00 6.41 1.62 9.36 -9.99 9.36 102.8 2.00 6.54 1.64 9
.23 -9.99 9.23 102.7 2.00 6.56 1.64 9.23 -9.99 -9.99 44956 100.5 123.3
57.2 25.4 -21.5 -158.1 -3.9 -0.33 -9.99 -9.99 -9.99 -9.99 -9.99 -1.7
-0.29 -9.99 -9.99 -9.99 -9.99 -9.99 1.0 -0.23 11.87 8.34 -9.99 -9.99 -9.
99 4.0 -0.16 10.51 6.38 -9.99 -9.99 -9.99 44957 100.6 116.8 63.6 25.4
-39.3 -154.5 7.4 -0.08 9.82 4.89 -9.99 -9.99 -9.99 11.4 0.00 9.57
3.97 -9.99 -9.99 -9.99 15.9 0.09 9.01 3.50 -9.99 -9.99 -9.99 21.2 0.
22 8.55 3.18 -9.99 -9.99 -9.99 44958 100.7 110.7 69.8 25.4 -55.9 -149.2
27.2 0.34 7.96 2.54 -9.99 -9.99 -9.99 34.0 0.50 7.62 2.65 -9.99 -9
.99 -9.99 41.9 0.67 7.22 2.40 -9.99 -9.99 9.73 50.9 0.87 7.12 2.13
-9.99 -9.99 -9.99

TAPE NO. 1 FILE NO. 2
RECORD 792 LENGTH 4480
15.094 57599 31.8 55.6 121.5 -191.5 -95.6 68.9 61.2 1.10 7.11 3.33 9.30
4.80 -9.99 73.1 1.36 6.91 3.17 -9.99 4.54 -9.99 86.6 1.66 6.79 3.0
2 -9.99 4.55 9.25 102.1 2.00 6.99 2.88 -9.99 4.35 -9.99 57600 31.5
55.5 121.5 -191.8 -87.3 78.6 119.9 2.39 7.36 2.68 -9.99 4.09 9.11 1
40.3 2.83 7.37 2.55 8.48 4.13 -9.99 163.6 3.34 6.73 2.39 -9.99 4.08
8.34 190.3 3.94 6.91 2.28 -9.99 3.82 8.19 57601 31.3 55.9 121.1 -
192.1 -78.1 87.5 220.9 4.60 7.18 2.21 -9.99 4.08 8.36 255.9 5.37 6.
74 2.17 7.92 4.03 8.62 295.9 6.25 6.39 2.11 8.27 4.15 8.70 341.8
7.25 6.08 2.05 7.97 4.19 8.81 57602 30.9 56.7 120.3 -192.4 -67.8
95.3 394.4 8.40 6.25 1.95 7.54 4.34 8.44 454.6 9.72 6.35 1.83 -9.9
9 4.81 8.79 523.5 11.23 6.04 1.73 -9.99 4.84 8.51 602.4 12.96 5.81
1.62 -9.99 4.93 8.34 57603 30.7 57.9 119.2 -192.7 -57.1 101.8 692.7 1
4.96 5.77 1.52 -9.99 4.89 7.99 796.2 17.23 5.56 1.40 6.91 4.66 7.61
914.6 19.83 5.64 1.26 7.09 4.42 8.02 1050.2 22.80 5.52 1.18 6.97
4.19 8.05 57604 30.4 59.5 117.7 -193.0 -45.5 107.1 1205.5 26.26 5.63 1.
10 6.85 4.52 7.72 1383.3 30.10 5.65 1.01 6.43 4.29 7.68 1586.9 34.57
5.59 0.89 6.61 4.07 7.35 1820.0 39.70 5.50 0.82 6.19 3.86 6.89
57605 30.1 61.4 115.8 -193.3 -33.4 111.3 2087.0 45.55 5.52 0.72 6.67 3.6
5 6.97 2392.6 52.22 5.56 0.65 6.25 3.49 7.44 2742.5 60.00 5.43 0.56
6.43 3.35 7.58 3143.2 68.77 5.28 0.47 6.19 3.20 6.94 57606 29.8 6
3.5 113.7 -193.6 -20.9 113.9 3602.0 78.55 5.13 0.40 6.07 3.06 7.33 4127.
3 90.10 5.06 0.30 5.95 2.95 7.51 4728.7 103.32 4.97 0.21 5.83 2.85
7.43 5417.4 118.32 4.87 0.10 5.94 2.76 6.73 57607 29.6 66.0 111.3 -193
.9 -3.2 115.4 6206.0 135.65 4.83 -0.01 5.60 2.66 6.38 7108.9 155.43 4.71
-0.14 5.60 2.56 6.36 8142.6 178.09 4.56 -0.26 5.79 2.48 6.39 9326.4 2
03.98 4.44 -0.34 5.67 2.43 6.45 57608 29.4 68.6 108.7 -193.9 4.3 115.
4 10681.7 233.42 4.37 -0.45 5.35 2.40 6.25 12233.6 267.20 4.21 -0.58 5.38
2.42 6.72 14010.5 306.30 4.10 -0.72 5.41 2.47 6.30 16045.0 350.74 3.96 -0
.85 5.38 2.55 5.91 57609 29.3 71.4 106.0 -194.2 17.0 114.2 18374.6 401.9
6 3.78 -0.96 5.08 2.53 5.74 21041.9 457.73 3.67 -1.13 5.07 2.32 5.77 2
4096.0 525.50 3.52 -1.35 4.30 2.07 5.65 27592.9 601.05 3.36 -1.69 4.80 1.
88 5.54 57610 29.1 74.4 103.0 -194.4 29.4 111.6 31596.9 687.71 3.25 -2.22
4.35 1.73 5.44 36181.5 787.70 3.17 -2.71 4.71 1.58 5.38 41430.9 902.13
3.06 -3.37 4.83 1.46 5.34 47441.4 1033.23 2.98 -3.80 4.71 1.35 5.30 576
11 29.0 77.5 100.0 -194.4 41.6 107.4 54323.4 1184.33 2.94 -3.97 4.62 1.24
5.21 62203.3 1355.42 2.84 -4.06 4.47 1.14 5.30 71225.8 1529.85 2.75 -3.98 4
.56 1.04 5.22 81556.6 1777.60 2.58 -4.15 4.46 0.95 5.28 57612 28.8 80.8
96.7 -194.7 53.4 101.5 69.5 0.87 7.90 2.99 9.78 5.90 10.18 59.9
0.87 7.03 3.19 -9.99 5.20 9.78 56.7 0.87 7.17 3.41 -9.99 5.10 -9.

3.45 -9.99 5.05 -9.99 53.0 0.87 7.14 3.47 -9.99 5.10 -9.99 52.6 0.
87 7.17 3.46 -9.99 5.00 -9.99 57614 28.6 87.2 90.3 -195.3 74.2 86.9
52.4 0.87 6.96 3.47 -9.99 5.04 9.48 52.1 0.87 6.92 3.48 -9.99 5
.11 -9.99 52.0 0.87 7.07 3.47 9.48 5.12 -9.99 51.8 0.87 7.13 3.48
-9.99 5.10 -9.99

TAPE NO. 1 FILE NO. 3
RECORD 1 LENGTH 4480

20.00 72013 130.5 96.3 91.6 72.6 37.7 47.5 -1.0 401.96 -9.99 -9.99 5.33
1.70 5.18 -1.0 457.75 -9.99 -9.99 4.92 1.64 5.07 -1.0 525.50 -9.99 -9.9
9 5.10 1.56 4.96 -1.0 601.05 -9.99 -9.99 5.12 1.50 5.17 72014 130.6
91.3 87.7 72.6 42.5 43.0 -1.0 687.71 -9.99 -9.99 5.13 1.40 5.08
-1.0 787.70 -9.99 -9.99 4.89 1.29 4.99 -1.0 902.13 -9.99 -9.99 4.87 1.21
4.93 -1.0 1033.23 -9.99 -9.99 4.93 1.11 4.94 72015 131.0 86.3 83.8
72.9 46.6 38.0 -1.0 1184.33 -9.99 -9.99 4.97 0.99 4.85 -1.0 1355.42 -9.
99 -9.99 4.89 0.92 4.83 -1.0 1529.85 -9.99 -9.99 4.68 0.84 4.72 -1.0
1777.60 -9.99 -9.99 4.61 0.72 4.55 72016 131.5 81.4 79.8 73.2 50.2
32.3 3620.7 78.55 4.23 0.13 6.34 2.29 6.04 3611.1 78.55 4.13 0.22 5.5
7 2.26 5.87 3608.0 78.55 4.35 0.21 5.57 2.19 5.57 3606.4 78.55 4.24
0.22 6.04 2.17 5.87 72017 130.9 76.6 76.2 73.5 53.1 26.7 3605.4 7
8.55 4.16 0.22 5.57 2.16 6.26 3604.8 78.55 4.17 0.22 5.87 2.11 -9.99
3604.3 78.55 4.20 0.22 5.57 2.16 5.87 3604.0 78.55 4.18 0.21 5.57
2.14 6.26 72018 132.7 71.8 72.5 73.8 55.5 20.5 3603.7 78.55 4.29 0.
21 5.57 2.16 6.04 3603.5 78.55 4.36 0.22 5.57 2.09 5.87 3603.4 78.55
4.23 0.22 5.87 2.14 5.57 3603.2 78.55 4.34 0.22 -9.99 2.13 -9.99
72019 132.2 67.1 69.0 73.3 57.3 14.2 3603.1 78.55 4.20 0.22 5.57 2.1
5 5.57 3603.0 78.55 4.34 0.21 5.57 2.13 5.57 3602.9 78.55 4.17 0.23
-9.99 2.15 5.57 3602.8 78.55 4.20 0.22 -9.99 2.14 5.87 72020 133.0 6
2.8 65.9 74.1 58.2 8.0 3602.7 78.55 4.16 0.22 5.87 2.14 5.57 3602.
7 78.55 4.23 0.22 5.87 2.10 -9.99 3602.6 78.55 4.13 0.22 -9.99 2.07
5.57 3602.6 78.55 4.21 0.22 5.57 2.10 5.87 72021 133.8 58.5 62.9 74
.1 53.5 1.3 3602.5 78.55 4.28 0.22 6.04 2.12 5.87 3602.5 78.55 4.29
0.22 6.17 2.13 -9.99 3602.4 78.55 4.08 0.23 5.87 2.12 5.87 3602.4
78.55 4.33 0.21 6.04 2.11 5.57 72022 134.8 60.8 60.2 74.4 58.2 -4.
7 3602.4 78.55 4.22 0.23 6.04 2.07 5.57 3602.4 78.55 4.36 0.22 5.57
2.12 5.57 3602.3 78.55 4.23 0.21 5.87 2.12 5.57 3602.3 78.55 4.34 0
.20 5.57 2.17 5.87 72023 135.8 57.3 57.9 74.4 57.0 -10.9 3602.3 78.5
5 4.22 0.22 -9.99 2.17 -9.99 3602.3 78.55 4.31 0.22 6.17 2.14 5.87
3602.2 78.55 4.34 0.21 -9.99 2.15 5.87 3602.2 78.55 4.11 0.22 5.87 2.
16 -9.99 72024 137.0 54.2 55.9 74.7 55.2 -17.1 3602.2 78.55 4.22 0.20
6.26 2.14 5.57 3602.2 78.55 4.20 0.22 5.57 2.17 6.17 3602.2 78.55
4.28 0.21 5.57 2.15 6.26 3602.2 78.55 4.21 0.21 6.26 2.17 5.57 720
25 138.2 44.1 54.4 74.7 52.5 -23.1 3602.1 78.55 4.25 0.20 5.57 2.19
5.87 3602.1 78.55 4.29 0.21 5.57 2.22 -9.99 3602.1 78.55 4.22 0.21 6
.26 2.21 5.87 3602.1 78.55 4.30 0.22 5.57 2.26 5.87 72026 139.1 48.3
53.2 74.7 49.9 -28.7 3602.1 78.55 4.44 0.20 5.87 2.27 5.57 3602.1
78.55 4.30 0.20 5.87 2.26 -9.99 3602.1 78.55 4.32 0.20 6.04 2.27 6.
04 3602.1 78.55 4.25 0.21 5.87 2.24 6.04 72027 140.4 46.5 52.7 74.7
46.0 -34.0 3602.0 78.55 4.30 0.21 6.17 2.28 5.57 3602.0 78.55 4.20
0.19 5.57 2.26 5.87 3602.0 78.55 4.17 0.20 6.04 2.27 6.04 3602.0 78.
55 4.20 0.20 5.57 2.21 6.04 72028 141.7 45.4 52.7 75.0 41.9 -38.8
3602.0 78.55 4.27 0.20 5.57 2.22 -9.99 3602.0 78.55 4.22 0.18 5.87 2
.24 5.87 3602.0 78.55 4.27 0.20 6.17 2.24 5.57 3602.0 78.55 4.27 0.21
6.04 2.24 -9.99

TAPE NO. 1 FILE NO. 3
23099 RECORD 900 LENGTH 4480

86397 118.6 119.8 122.9 35.5 3.4 66.5 395.1 8.40 5.31 1.45 -9.99
3.21 -9.99 395.0 8.40 5.25 1.44 8.21 3.32 -9.99 394.9 8.40 5.25 1.4
6 8.21 3.29 -9.99 394.9 8.40 5.17 1.46 7.51 3.34 -9.99 86398 118.6
114.1 117.6 35.5 10.5 65.9 394.8 8.40 5.17 1.45 -9.99 3.38 7.81 3
94.8 8.40 5.12 1.47 7.51 3.34 -9.99 394.8 8.40 5.25 1.47 7.81 3.23
-9.99 394.7 8.40 5.31 1.49 7.51 3.33 -9.99 86399 118.7 108.1 112.4
35.5 17.6 64.1 394.7 8.40 5.34 1.52 7.51 3.28 -9.99 394.7 8.40 5.

3.40 3.26 1.52 7.81 3.39 7.51 86400 118.7 102.3 107.1 35.5 24.4
62.0 394.6 8.40 5.28 1.52 -9.99 3.20 -9.99 394.6 8.40 5.47 1.53 7.8
1 3.27 -9.99 394.5 8.40 5.42 1.52 7.51 3.22 -9.99 394.5 8.40 5.45
1.53 7.51 3.27 -9.99 86401 118.7 96.2 101.6 35.5 31.2 59.0 394.5
8.40 5.25 1.53 7.81 3.27 -9.99 394.5 8.40 5.17 1.54 -9.99 3.34 -9.99
394.5 8.40 5.32 1.51 7.51 3.30 -9.99 394.5 8.40 5.12 1.55 -9.99
3.24 -9.99 86402 118.7 90.1 96.0 35.5 37.4 55.2 394.4 8.40 5.25 1.
53 7.51 3.26 -9.99 394.4 8.40 5.42 1.53 -9.99 3.21 -9.99 394.4 8.40
4.77 1.55 7.81 3.30 -9.99 394.4 8.40 5.28 1.54 7.81 3.27 -9.99
86403 118.4 84.2 90.6 35.2 43.4 51.0 394.4 8.40 5.07 1.53 7.51 3.2
9 -9.99 394.4 8.40 5.17 1.55 7.51 3.28 -9.99 394.4 8.40 5.01 1.55
7.51 3.27 -9.99 394.4 8.40 5.25 1.55 7.51 3.32 -9.99 86404 118.4 7
8.1 85.0 35.2 48.7 46.0 394.4 8.40 5.37 1.55 -9.99 3.29 -9.99 394.
3 8.40 5.07 1.57 7.51 3.31 -9.99 394.3 8.40 5.07 1.60 -9.99 3.39
-9.99 394.3 8.40 5.28 1.58 7.51 3.31 7.51 86405 118.7 72.1 79.6 35
.5 53.1 40.3 394.3 8.40 5.32 1.56 -9.99 3.39 -9.99 394.3 8.40 5.35
1.58 7.51 3.36 -9.99 394.3 8.40 4.65 1.57 8.21 3.42 -9.99 394.3
8.40 5.32 1.58 7.51 3.39 -9.99 86406 118.7 66.2 74.2 35.5 57.3 34.
4 394.3 8.40 5.40 1.58 7.51 3.38 -9.99 394.3 8.40 5.47 1.57 -9.99
3.30 -9.99 394.3 8.40 5.12 1.58 7.51 3.25 7.51 394.3 8.40 5.35 1
.57 -9.99 3.29 7.51 86407 119.0 61.0 68.9 35.8 60.3 27.9 394.3 8.4
0 4.87 1.56 7.51 3.23 -9.99 394.3 8.40 5.21 1.58 7.51 3.20 -9.99
394.2 8.40 5.12 1.57 -9.99 3.21 -9.99 394.2 8.40 5.32 1.57 7.81 3.
20 -9.99 86408 119.0 56.0 63.5 35.8 62.9 21.0 -4.7 -0.33 -9.99 -9.99
-9.99 -9.99 -9.99 -2.4 -0.29 -9.99 -9.99 -9.99 -9.99 -9.99 0.3 -0.23 -
9.99 -9.99 -9.99 -9.99 -9.99 3.3 -0.16 8.34 6.52 -9.99 -9.99 -9.99 864
09 118.8 51.2 58.3 35.8 65.0 14.2 6.8 -0.08 7.72 5.09 -9.99 -9.99
-9.99 10.8 0.00 7.62 4.37 -9.99 -9.99 -9.99 15.4 0.09 -9.99 3.94 -9
.99 -9.99 -9.99 20.7 0.22 7.23 3.56 11.00 5.79 -9.99 86410 118.8 46.1
53.0 35.8 66.2 6.8 26.7 0.34 6.83 3.24 10.32 5.37 -9.99 33.6
0.50 6.63 3.03 9.99 4.32 -9.99 41.5 0.67 6.63 2.80 9.73 4.33 -9.
99 50.5 0.87 6.46 2.65 9.51 4.50 -9.99 86411 118.8 41.5 48.2 35.8
66.5 -0.2 60.8 1.10 6.29 2.52 -9.99 4.21 -9.99 72.7 1.36 6.26
2.39 -9.99 4.11 -9.99 86.3 1.66 6.21 2.27 -9.99 3.85 8.94 101.8 2.
00 6.45 2.19 8.78 3.85 -9.99 86412 118.8 36.9 43.4 35.8 65.9 -7.6
119.6 2.39 6.01 1.92 8.63 3.57 -9.99 140.0 2.83 6.09 1.81 8.48 3
.55 -9.99 163.3 3.34 5.56 1.80 8.34 3.52 -9.99 190.0 3.94 5.83 1.76
-9.99 3.34 -9.99

TAPE NO. 1 FILE NO. 4
RECORD 1 LENGTH 6160
57599 231.34 -4.0 -0.33 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99
-9.99 -9.99 -1.8 -0.29 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.
99 -9.99 0.9 -0.23 9.83 8.13 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99
-9.99 4.0 -0.16 8.88 5.98 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -
9.99 7.4 0.08 8.99 5.23 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.9
9 11.4 0.00 8.38 4.60 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99
15.9 0.09 8.12 4.47 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 2
1.2 0.22 8.02 4.19 -9.99 -9.99 -9.99 -9.99 -9.99 10.76 6.32 10.70 27.2
0.34 7.79 3.97 -9.99 -9.99 -9.99 -9.99 -9.99 10.32 5.91 10.40 34.0
0.50 7.40 3.75 -9.99 -9.99 -9.99 -9.99 -9.99 9.99 5.65 -9.99 41.9 0.
67 7.18 3.55 -9.99 -9.99 -9.99 -9.99 -9.99 9.73 5.35 9.73 53.9 0.87
7.12 3.30 -9.99 -9.99 -9.99 -9.99 -9.99 9.54 5.13 9.64 61.2 1.10
7.11 3.20 -9.99 -9.99 -9.99 -9.99 -9.99 9.30 4.83 9.35 73.1 1.36 7.1
5 3.04 -9.99 -9.99 -9.99 -9.99 -9.99 9.12 4.63 9.12 86.6 1.66 7.05
2.89 -9.99 -9.99 -9.99 -9.99 -9.99 8.94 4.42 9.04 105.2 2.00 7.02 2
.75 -9.99 -9.99 -9.99 -9.99 -9.99 8.79 4.30 8.91 119.9 2.39 6.91 2.57
-9.99 -9.99 -9.99 -9.99 -9.99 8.73 4.22 8.71 140.3 2.83 6.91 2.44
-9.99 -9.99 -9.99 -9.99 -9.99 8.48 4.13 8.48 163.6 3.34 6.86 2.35 -9.
99 -9.99 -9.99 -9.99 -9.99 8.34 3.97 8.37 190.3 3.94 6.73 2.27 -9.99
-9.99 -9.99 -9.99 -9.99 8.19 3.80 8.39 220.9 4.60 6.56 2.20 -9.99 -
9.99 -9.99 -9.99 -9.99 8.19 3.71 8.30 255.9 5.37 6.25 2.14 -9.99 -9.9
9 -9.99 -9.99 -9.99 8.08 3.70 8.24 295.9 6.25 6.16 2.09 -9.99 -9.99
-9.99 -9.99 -9.99 8.07 3.91 8.25 341.8 7.25 6.09 2.01 -9.99 -9.99 -9
.99 -9.99 -9.99 7.83 4.05 8.16 394.4 8.40 5.95 1.94 -9.99 -9.99 -9.99

99 -9.99 7.45 4.81 7.73 602.4 12.96 5.82 1.63 -9.99 -9.99 -9.99 -9.99
-9.99 7.49 4.66 7.75 692.7 14.96 5.79 1.53 -9.99 -9.99 -9.99 -9.99 -
9.99 7.37 4.45 7.47 796.2 17.23 5.74 1.42 -9.99 -9.99 -9.99 -9.99 -9.9
9 7.17 4.26 7.49 914.6 19.83 5.59 1.32 -9.99 -9.99 -9.99 -9.99 -9.99
7.03 4.08 7.62 1050.2 22.80 5.47 1.22 -9.99 -9.99 -9.99 -9.99 -9.99 6
.91 3.90 7.69 1205.5 26.26 5.49 1.14 -9.99 -9.99 -9.99 -9.99 -9.99 6.80
4.25 7.31 1383.3 30.10 5.48 1.06 -9.99 -9.99 -9.99 -9.99 -9.99 6.79
4.04 7.11 1586.9 34.57 5.42 0.98 -9.99 -9.99 -9.99 -9.99 -9.99 6.74 3.
85 7.02 1820.0 39.70 5.41 0.90 -9.99 -9.99 -9.99 -9.99 -9.99 6.54 3.66
7.08 2087.0 45.55 5.38 0.80 -9.99 -9.99 -9.99 -9.99 -9.99 6.54 3.49
7.02 2392.6 52.22 5.30 0.68 -9.99 -9.99 -9.99 -9.99 -9.99 6.43 3.33 7.2
0 2742.5 60.00 5.20 0.56 -9.99 -9.99 -9.99 -9.99 -9.99 6.40 3.18 7.31
3143.2 68.77 5.14 0.44 -9.99 -9.99 -9.99 -9.99 -9.99 6.30 3.05 7.03 360
2.0 78.55 5.09 0.33 -9.99 -9.99 -9.99 -9.99 -9.99 6.11 2.93 6.87 4127.3
90.10 5.01 0.23 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 6.18 2.83 6.69 4728.7 1
03.32 4.92 0.12 -9.99 -9.99 -9.99 -9.99 -9.99 6.04 2.71 6.71 5417.4 118.
32 4.84 0.02 -9.99 -9.99 -9.99 -9.99 -9.99 5.90 2.60 6.67 6206.0 135.65
4.73 -0.07 -9.99 -9.99 -9.99 -9.99 -9.99 5.89 2.53 6.52 7108.9 155.43
4.61 -0.18 -9.99 -9.99 -9.99 -9.99 -9.99 5.77 2.45 6.47 8142.6 178.09 4.4
8 -0.30 -9.99 -9.99 -9.99 -9.99 -9.99 5.78 2.40 6.43 9326.4 203.98 4.37
-0.42 -9.99 -9.99 -9.99 -9.99 -9.99 5.70 2.35 6.30 10681.7 233.42 4.25 -0
.55 -9.99 -9.99 -9.99 -9.99 -9.99 5.54 2.29 6.25 12233.6 267.20 4.15 -0.68
-9.99 -9.99 -9.99 -9.99 -9.99 -9.99 5.53 2.24 6.19 14010.5 306.30 4.04 -0.80
-9.99 -9.99 -9.99 -9.99 -9.99 -9.99 5.41 2.19 6.11 16045.0 350.74 3.87 -0.91 -9.
99 -9.99 -9.99 -9.99 -9.99 -9.99 5.31 2.13 5.96 18374.6 401.96 3.67 -1.02 -9.99
-9.99 -9.99 -9.99 -9.99 5.25 2.07 5.86 21041.9 457.73 3.53 -1.16 -9.99 -
9.99 -9.99 -9.99 -9.99 5.15 1.98 5.79 24096.0 525.50 3.39 -1.38 -9.99 -9.9
9 -9.99 -9.99 -9.99 5.03 1.89 5.62 27592.9 601.05 3.29 -1.78 -9.99 -9.99
-9.99 -9.99 -9.99 4.94 1.79 5.53 31596.9 687.71 3.20 -2.29 -9.99 -9.99 -9
.99 -9.99 -9.99 4.75 1.68 5.44 36181.5 787.70 3.11 -2.85 -9.99 -9.99 -9.99
-9.99 -9.99 4.80 1.56 5.37 41430.9 902.13 3.08 -3.48 -9.99 -9.99 -9.99
-9.99 -9.99 4.74 1.45 5.34 47441.4 1033.23 2.99 -3.77 -9.99 -9.99 -9.99 -9.
99 -9.99 4.70 1.36 5.32 54323.4 1184.33 2.90 -3.87 -9.99 -9.99 -9.99 -9.99
-9.99 4.68 1.27 5.32 62203.3 1355.42 2.81 -3.91 -9.99 -9.99 -9.99 -9.99 -
9.99 4.65 1.16 5.29 71225.8 1529.85 2.68 -4.05 -9.99 -9.99 -9.99 -9.99 -9.9
9 4.69 1.09 5.31 81556.6 1777.60 2.54 -4.12 -9.99 -9.99 -9.99 -9.99 -9.99
4.69 0.98 5.29

TAPE NO. 1 FILE NO. 4
RECORD 42 LENGTH 6160
1991 71919 145.10 -4.2 -0.33 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99
-9.99 -9.99 -1.9 -0.29 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.99 -9.
99 -9.99 0.7 -0.23 -9.99 -9.99 -9.99 -9.99 -9.99 9.45 8.03 -9.99 -9.99
-9.99 3.8 -0.16 -9.99 -9.99 -9.99 -9.99 -9.99 8.19 6.16 -9.99 -9.99 -
9.99 7.3 0.08 -9.99 -9.99 -9.99 -9.99 -9.99 7.80 4.74 -9.99 -9.99 -9.9
9 11.3 0.00 -9.99 -9.99 -9.99 -9.99 -9.99 7.27 4.14 -9.99 -9.99 -9.99
15.8 0.09 -9.99 -9.99 -9.99 -9.99 -9.99 6.98 3.72 -9.99 -9.99 -9.99 2
1.0 0.22 -9.99 -9.99 10.70 5.29 -9.99 6.97 3.37 -9.99 6.22 -9.99 27.0
0.34 -9.99 -9.99 -9.99 5.37 -9.99 6.60 3.07 10.32 5.79 10.32 33.9
0.50 -9.99 -9.99 -9.99 5.19 -9.99 6.62 2.86 -9.99 5.41 -9.99 41.8 0.
67 -9.99 -9.99 9.73 4.44 -9.99 6.22 2.65 -9.99 5.14 -9.99 54.1 0.87
-9.99 -9.99 9.78 5.26 10.00 6.32 2.52 9.48 4.63 9.48 61.1 1.10 -
9.99 -9.99 -9.99 4.47 9.30 6.09 2.35 -9.99 4.57 -9.99 73.0 1.36 -9.9
9 -9.99 -9.99 4.28 9.12 6.35 2.25 -9.99 4.47 -9.99 86.5 1.66 -9.99
-9.99 -9.99 4.19 -9.99 6.01 2.14 8.94 4.26 -9.99 105.0 2.00 -9.99 -9
.99 8.75 4.52 9.17 6.06 2.15 -9.99 4.60 8.75 119.8 2.39 -9.99 -9.99
-9.99 3.78 -9.99 5.85 1.88 -9.99 3.99 8.63 140.2 2.83 -9.99 -9.99
-9.99 3.42 8.43 5.84 1.85 -9.99 3.94 -9.99 163.5 3.34 -9.99 -9.99 -9.
99 3.43 8.34 5.65 1.85 -9.99 3.57 8.34 190.2 3.94 -9.99 -9.99 -9.99
3.21 -9.99 5.48 1.86 -9.99 3.47 8.19 220.8 4.60 -9.99 -9.99 -9.99
3.07 -9.99 5.53 1.87 -9.99 3.44 8.06 255.8 5.37 -9.99 -9.99 -9.99 3.3
0 7.92 5.42 1.87 7.92 3.45 -9.99 295.9 6.25 -9.99 -9.99 7.79 3.75
7.79 5.39 1.86 -9.99 3.79 -9.99 341.8 7.25 -9.99 -9.99 -9.99 3.92 -9
.99 5.41 1.86 -9.99 3.97 -9.99 394.4 8.40 -9.99 -9.99 7.54 4.26 -9.99

```
 3.24    1.12    -9.99    4.71    7.41   525.5   11.25   -9.99   -9.99    7.28    4.81   -9.99    5.
25    1.80   -9.99    4.67   -9.99   602.4   12.96   -9.99   -9.99   -9.99    4.63   -9.99    5.20
   1.74    7.16    4.45   -9.99   692.7   14.96   -9.99   -9.99    7.03    4.36   -9.99    5.29
1.68   -9.99    4.12   -9.99   796.2   17.23   -9.99   -9.99    6.91    4.08   -9.99    5.32    1.6
1   -9.99    3.83   -9.99   914.6   19.83   -9.99   -9.99   -9.99    3.81    6.79    5.38    1.52
   6.79    3.56    6.79  1050.2   22.80   -9.99   -9.99    6.67    3.56    6.82    5.51    1.44   -9
.99    3.29    6.67  1205.5   26.26   -9.99   -9.99   -9.99    3.77    7.15    5.47    1.37    6.55
   3.57    6.55  1383.3   30.10   -9.99   -9.99    6.58    3.49    6.85    5.37    1.28    6.43
 3.27    6.43  1586.9   34.57   -9.99   -9.99    6.57    3.22    7.31    5.27    1.21    6.61    3.
04    6.31  1820.0   39.70   -9.99   -9.99    6.34    2.99    6.69    5.12    1.13    6.66    2.81
   6.79  2086.9   45.55   -9.99   -9.99    6.37    2.81    6.59    4.93    1.05    6.37    2.63
6.07  2392.6   52.22   -9.99   -9.99    6.25    2.70    6.53    4.67    0.97    6.10    2.47    6.3
4  2742.5   60.00   -9.99   -9.99    5.83    2.59    6.23    4.64    0.89    5.83    2.36    6.70
3143.2   68.77   -9.99   -9.99    6.16    2.51    6.35    4.55    0.79    5.86    2.21    6.16  360
2.0   78.55   -9.99   -9.99    6.28    2.69    6.57    4.39    0.68    5.69    2.15    6.14  4127.3
   90.10   -9.99   -9.99    6.45    2.72    6.58    4.29    0.56    5.58    2.08    5.99  4728.7   1
03.32   -9.99   -9.99    6.28    2.76    6.44    4.22    0.40    5.66    2.05    6.17  5417.4  118.
32   -9.99   -9.99    6.26    2.77    6.57    4.20    0.23    5.69    2.02    6.20  6206.0  135.65
   -9.99   -9.99    6.37    2.77    6.52    4.16    0.03    5.82    1.99    6.01  7108.8  155.43   -
9.99   -9.99    6.27    2.84    6.55    4.17   -0.19    5.48    1.98    6.07  8142.6  178.09   -9.9
9   -9.99    6.41    2.84    6.58    4.07   -0.43    5.28    1.99    5.80  9326.4  203.98   -9.99
 -9.99    6.20    2.74    6.59    4.04   -0.69    5.13    1.96    5.97 10681.7  233.42   -9.99   -9
.99    6.05    2.65    6.64    4.01   -0.97    5.32    1.96    5.96 12233.6  267.20   -9.99   -9.99
   5.91    2.53    6.61    3.86   -1.26    5.50    1.95    5.97 14010.5  306.30   -9.99   -9.99
 5.86    2.38    6.61    3.75   -1.57    5.49    1.95    5.81 16045.0  350.74   -9.99   -9.99    5.
60    2.13    6.60    3.65   -1.78    5.35    1.94    5.71 18374.6  401.96   -9.99   -9.99    5.53
   2.03    6.40    3.58   -1.83    5.29    1.87    5.60 21041.9  457.73   -9.99   -9.99    5.39
1.95    6.29    3.51   -1.91    5.41    1.78    5.66 24096.0  525.50   -9.99   -9.99    5.23    1.9
0    6.10    3.41   -2.11    5.33    1.73    5.59 27592.9  601.05   -9.99   -9.99    5.11    1.86
   5.99    3.32   -2.45    5.39    1.67    5.50 31596.9  687.71   -9.99   -9.99    5.01    1.85    5
.77    3.29   -3.01    5.16    1.61    5.36 36181.5  787.70   -9.99   -9.99    5.04    1.74    5.54
   3.11   -3.45    5.08    1.55    5.18 41430.9  902.13   -9.99   -9.99    4.79    1.62    5.41
 2.89   -3.61    5.01    1.48    5.18 47441.4 1033.23   -9.99   -9.99    4.70    1.50    5.28    2.
66   -3.99    4.83    1.41    5.00 54323.4 1184.33   -9.99   -9.99    4.41    1.39    5.03    2.31
  -4.25    4.69    1.33    5.05 62203.3 1355.42   -9.99   -9.99    4.47    1.31    5.05    1.89   -
4.31    4.54    1.25    4.88 71225.8 1529.85   -9.99   -9.99    4.55    1.23    4.89    1.71   -4.5
1    4.31    1.20    4.69 81556.6 1777.60   -9.99   -9.99    4.49    1.15    4.84    1.52   -4.49
   4.40    1.11    4.48

***** JOB DONE.
$WEO LPS


$$
$KEW LO
```

STP P78-2

FINAL ATLAS ELECTRONS + IONS

79-007A-12A SPMS-00592

This data set has been restored. There were originally three 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 6600 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
DR005919	DS005919	D045281	1	03/22/79 - 03/22/79
		D045297	2	03/31/79 - 03/31/79
		D045298	3	04/01/79 - 04/01/79

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

SC 5 FINAL ATLAS ELECTRONS AND IONS

79-007A-12A

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

D#	C#	TIME SPAN
D-45281	C-21488	3/22/79
D-45297	C-21537	3/31/79
D-45298	C-21538	4/01/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 9 [illegible]

DATE DATA RECEIVED: [illegible]

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:	1 Mag-tape

SATELLITE NAME/NSDF NAME: SCATHA

EXPERIMENT NAME: _____

DATA SET FULL NAME: [illegible]

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: ND 45291 C 21429

REMARKS:

DATA RECEIPT NOTIFICATION SENT? ☐

Susan Nolan

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: _____

DATE DATA RECEIVED: _____

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:	1 Mag Tape

SATELLITE NAME/NSDF NAME: _____

EXPERIMENT NAME: _____

DATA SET FULL NAME: _____

CONTACT: _____ ACQUISITION SCIENTIST: _____

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: _____

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

ACCESSION UNIT NUMBERS: _____

REMARKS:

DATA RECEIPT NOTIFICATION SENT? ☐

_____

DATA TECHNICIAN

ADP SERVICES (MACHINE SENSIBLE ONLY)

Date 6/11/81

NSSDC ID: 79-002A-12

CDAW DATA SET ENTRY

Date Rcvd: 6/5/81 CDB: 06

Data Sent By: David A. Hardy (DAHRPBI)

Material Rcvd: 1 Mag. Tape CDC 60 BIT

9 Trk, 1600 Bpi; Tape Dump;

Documentation

Satellite/NSRF Name: SCATHA (P78-2) STP

Data Set Name: SC5 Final ATlas Electrons and Ions

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage: 22 March, 1979 0000 - 1948 UT

Tapes Tobe Returned to: AE

Ralph - Please Return Tape Dump!

P.S. We'd like a Hex Dump also - Thanks -

Completed By: Don Sawyer

National Aeronautics and Space Administration

DATA ANALYSIS WORKSHOP CENTER

CDB 06
77-003A-12
6/5/81

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (please print)

1. Data Set Name: Day 81/89 SCB Data		
2. Scientific Contact: David A. Hardy	3. Telephone No. or Telex No.: 617-861-3102	
4. Address: AFGL/PHG Hanscom Air Force Base		
5. City: Bedford	6. State: Mass.	7. ZIP Code or Country: 01731
8. Programmer Contact: Dennis Delorey 617-861-3751		

SECTION II. TAPE DESCRIPTION

1. No. of Tapes Submitted: 1	2. Tape Density: ☐ 800 bpi ☑ 1600 bpi
3. No. of Files (per tape): 1	
4. No. of End of File Marks: 1	5. No. of Tracks: ☐ 7 ☑ 9
6. Recording Parity: Odd	7. Make and Model of Computer Used to Generate Tape: CDC 6600
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 60 bit	
11. No. of Physical Records (per file): Approx. 1500	
12. Are original tapes to be returned? ☐ Yes ☑ No	
13. Start and Stop Time of Each File (If more space is needed, please attach.): PERP81 Tape period ~ 0000 – 1948 UT (22 Mar 79)	

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

SECTION IV. TO BE FILLED IN BY DAWOC ONLY

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

601-79 (10/80)

COB #6
77-MOA-12
6/5/81

The SCS data tape has one physical record per logical record.

The data rate is one record per satellite spin (~ 58 seconds)

Unwanted (bad) data words contain a dummy filled value of -999999.

SCS Final Atlas Data Base (one file per day)

Word #	Description	
	Alphanumeric	bbbbbbbSCS
2	Year	
3	Month	
4	Day	
5	Minimum pitch angle for spin (α_{min})	
6	Pitch angle value closest to 180°	
7	GMT (seconds)	
8	Day of year	
9	Total Number density	(#/cm³) } electrons
10	2-Maxwellian density N_1	(#/cm³) } electrons
11	2-Maxwellian density N_2	(#/cm³) } electrons
12	Total Number density	(#/cm³) } ions
13	2-Maxwellian density N_1	(#/cm³) } ions
14	2-Maxwellian density N_2	(#/cm³) } ions
15	Energy density, electrons	(eV/cm³)
16	" " , ions	(eV/cm³)
17	Energy flux, electrons	(eV/cm²-sec)
18	" " , ions	(eV/cm²-sec)
19	Number flux, electrons	(#/cm²-sec)
20	" " , ions	(#/cm²-sec)
21	2-Maxwellian temperature, T_1	(eV) } electrons
22	" " " , T_2	(eV) } electrons
23	" " " , T_1	(eV) } ions
24	" " " , T_2	(eV) } ions
25	T_{avg}	(eV) electrons
26	T_{avg}	(eV) ions
27	T_{rms}	(eV) electrons
28	T_{rms}	(eV) ions
29	Local time	(hours)
30	Altitude	(km)
31	Re (Satellite altitude in earth radii)	
32	latitude	(degrees)
33	L-shell	
34	magnetic time	(hrs)
35	Radius (magnetic)	— earth radii
36	magnetic latitude	(deg)
37	magnetic longitude	(deg)

CPD 96
77-003A-12
6/5/81

CDB 66
22-007A-5
6/15/81

38	$K_p \times 3$	
39	Sy latitude (deg.)	
40	Sy local time (hrs.)	
41	GSy latitude (deg.)	
42	GSy local time (hrs.)	
43	$\Sigma E_i f(E_i) \Delta E_i$	electrons; values at ~90° pa
44	$\Sigma f(E_i) \Delta E_i$	
45	$\Sigma E_i f(E_i) \Delta E_i$	electrons; values at α_{min}
46	$\Sigma f(E_i) \Delta E_i$	
47	$\Sigma E_i f(E_i) \Delta E_i$	ions; values at ~90° pitch ang.
48	$\Sigma f(E_i) \Delta E_i$	
49	$\Sigma E_i f(E_i) \Delta E_i$	ions; values at α_{min}
50	$\Sigma f(E_i) \Delta E_i$	

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

CDB 6
77-007A-12A
6/29/81

REPLY TO ATTN OF: AFGL/PHG

19 June 1981

SUBJECT: Data for the CDAW 6 Workshop

TO:

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

Dear Jim,

Enclosed are the two additional tapes for the SC5 data from March 30 and April 1, 1979. The data are in the same format as the previous tape I sent you. If there are any problems give me a call at (617) 861-3102.

David A. Hardy

DAVID A. HARDY, Captain, USAF
Spacecraft Environment Branch
Space Physics Division

Atch a/s

Date 6/29/81
NSSDC ID 79-007A-12A

CDAW DATA SET ENTRY

Date Rcvd: 6/27/81 CDB: 06

Data Sent By: Dave Hardy

Material Rcvd: 2 Tapes, ~~Documents~~
2 listings, letter

satellite/NSRF Name: Scatha

Data Set Name: SC5 Find Atlas Electrons and Ions

☐ New Data Set ☒ Additions ☐ Replacements
Comments: Same Format 1600 BPI 9trk/ CDC 660

Time Coverage: 31 March - 1 April 1979

~~Tapes To be Returned to:~~

Please Return
2 Tape listings
Thanks.
~~Dan~~

Completed By: Dan Sawyer

11/1 10/1 11/0 11.0
3 6 7 3

011.0 /01.10
3

1732$_8$
1717$_8$

13$_8$ = 11$_{10}$

1 1/1 11.0
3 7

386

7566 = 01 1/11 0/1 1/0 11.0
3 6 7 3

3673_8

1724
1717

5

1 1/1 11.0
3/7$_8$ = 31$_{10}$

1720
1717

3

1.000000.
1. /00100.

Participant: D. Hardy

Data Set Mnemonic: SC12

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-12A

Data Set Name: Rapid Scan Particle Detector

Principal Investigators: D. A. Hardy, USAF Geophys. Lab., Hanscom AFB

Data Availability: YY/DDD/HH/MM/SS - YY/DDD/HH/MM/SS
79/081/06/00/21 - 79/081/19/48/00
79/090/13/01/25 - 79/090/23/53/00
79/091/02/40/00 - 79/091/05/59/18

Data Time Interval: 58s (avg. satellite spin)

Description	Mnemonic	Units	Tuple
Minimum Pitch Angle for Spin	SC12MPA	deg	
Pitch Angle Closest to 180 Deg	SC12P180	deg	
Total Electron Number Density	SC12TED	#/cm3	
Maxwellian Electron Density N1	SC12MED1	#/cm3	
Maxwellian Electron Density N1 N2	SC12MED2	#/cm3	
Total Ion Number Density	SC12TID	#/cm3	
Maxwellian Ion Density N1	SC12MID1	#/cm3	
Maxwellian Ion Density N2	SC12MID2	#/cm3	
Electron Energy Density	SC12EED	eV/cm3	
Ion Energy Density	SC12IED	eV/cm3	
Electron Energy Flux	SC12EEF	eV/cm2.s	
Ion Energy Flux	SC12IEF	eV/cm2.s	
Electron Number Flux	SC12ENF	#/cm2.s	
Ion Number Flux	SC12INF	#/cm2.s	
Maxwellian Electron Temperature T1	SC12MET1	eV	
Maxwellian Electron Temperature T2	SC12MET2	eV	

Participant: D. Hardy

Data Set Mnemonic: SC12

(cont'd)

Description	Mnemonic	Units	Tuple
Maxwellian Ion Temperature T1	SC12MIT1	eV	
Maxwellian Ion Temperature T2	SC12MIT2	eV	
Electron Average Temperature	SC12TAVE	eV	
Ion Average Temperature	SC12TAVI	eV	
Electron rms Temperature	SC12TRME	eV	
Ions rms Temperature	SC12TRMI	eV	
Local Time of Satellite	SC12LT	h	
Satellite Altitude	SC12ALK	km	
Satellite Altitude	SC12ALR	Re	
Satellite Latitude	SC12SL	deg	
L - Shell	SC12L	deg	
Magnetic Local Time	SC12MT	h	
Radius (Magnetic)	SC12RM	Re	
Satellite Magnetic Latitude	SC12MLA	deg	
Satellite Magnetic Longitude	SC12MLO	deg	
Kp * 3	SC12KP*3	deg	
SM Latitude of Satellite	SC12SMLA	deg	
SM Local Time of Satellite	SC12SMLT	h	
GSM Latitude of Satellite	SC12GSLA	deg	
GSM Local Time of Satellite	SC12GSLT	deg	
Electron Energy Flux for Pitch Angle = 90 Deg	SC12EEF9	eV/cm2.s	
Total Electon Flux for Pitch Angle = 90 Deg	SC12TEF9	#/cm2.s	

Participant: D. Hardy

Data Set Mnemonic: SC12

(cont'd)

Description	Mnemonic	Units	Tuple
Electron Energy Flux for Minimum Pitch Angle	SC12EEFM	eV/cm2.s	
Total Electron Flux for Minimum Pitch Angle	SC12TEFM	#/cm2.s	
Ion Energy Flux for Pitch Angle -90 Deg	SC12IEF9	eV/cm2.s	
Total Ion Flux for Pitch Angle -90 Deg	SC12TIF9	#/cm2.s	
Ion Energy Flux for Minimum Pitch Angle	SC12IEFM	eV/cm2.s	
Total Ion Flux for Minimum Pitch Angle	SC12TIFM	#/cm2.s	

D-45281

DUMP OF TAPE X404

INPUT TAPE X404 ON MT2
DATA INPUT 09 FL 1 2 2

FILE 1 RECORD 1 LENGTH 500BYTES

(0)	555555555555	552303401732	756600000000	000017216000	000000000000	172454000000	000000001724	671102134676
(48)	037317274611	641060020040	172743040507	534121721726	504000000000	000017176275	267564776711	171750511261
(96)	022020401715	512060631276	324417175460	354545747336	171676212214	435134561715	663721752040	643117326302
(144)	163363253556	173456661611	732575601772	643153762104	023317705005	340224131505	175665302607	543745261752
(192)	412424343610	062517315151	051175660320	173440244532	366005141732	531421270475	736417357506	662577555111
(240)	173252565734	753734521734	545213302616	200517327664	700417304246	173546377735	367034541722	430336000311
(288)	507017375056	250661745732	172274234451	764626306056	154546457101	256017234003	161504025463	172242053020
(336)	677362331722	742757124064	457060542222	535202443763	172742126360	167055621721	400000000000	000060542157
(384)	721717230625	172242053020	677362336054	141665267161	501317224232	427776474402	175067704266	637153421736
(432)	672452463330	610417504413	326050526721	173651476712	153302771771	706435626454	035717545563	306332633740
(480)	177140422630	647756711756	617440225701	3400				

FILE 1 RECORD 2 LENGTH 500BYTES

(0)	555555555555	552303401732	756600000000	000017216000	000000000000	172454000000	000000001724	703615754034
(48)	207617274613	400123211056	172761340507	534121731726	504000000000	000017176377	620534652721	171751067021
(96)	066744641715	534347212767	116417176177	435135432046	171744332625	132321471715	662065211077	737217326505
(144)	777511515464	173456155535	354456751772	671423744010	556017704750	410072522106	175666676676	552270601752
(192)	416641031433	111517315130	134604251452	173440424672	324260511732	423361243215	447517357514	532637130152
(240)	173253442213	707553301734	473420621552	134417334013	732606555472	173545356045	254264661722	431144552027
(288)	036517375057	314264071542	172274247441	563357256056	157437621574	526417234002	774040731055	172242133442
(336)	470535501722	743107124635	762760542232	341566653124	172742117004	130373141721	400000000000	000060542167
(384)	560403514452	172242133442	470535506054	142403775230	313217224240	713055325651	175067076024	343644641736
(432)	676664043326	665017504266	421735145714	173650107477	353216601772	403661121274	703617564747	315445561137
(480)	177072343603	132122131755	502267640607	0000				

FILE 1 RECORD 1201 LENGTH 500BYTES

(0)	555555555555	552303401732	756600000000	000017216000	000000000000	172454000000	000000001723	605531604070
(48)	263317275220	642450763454	174042622313	716662131726	504000000000	000017215070	552527060301	172076520723
(96)	457300061717	461646562042	136717207254	024003474710	172055674646	515424151716	632157454755	135217344053
(144)	155215056323	173565077217	300436261774	444347562736	570617715744	265400346666	176042005630	316310261753
(192)	467531652144	343217277727	300271427351	173374022302	572353751732	466076267663	540617364345	221426302017
(240)	173242062224	577647461734	464760421251	052217334231	206442360152	173547044207	044107161720	406424661704
(288)	462017374235	342373600526	172264206334	744570336055	043415107123	507417227366	430377760475	171774373470
(336)	226465001722	642420375170	575360533540	017561766700	172745343164	752760251723	540000000000	000060533505
(384)	420247736157	171774373470	226465006054	336201676661	444617177231	100634241040	175166606136	160500311740
(432)	547610522705	037617514754	321526122241	174073310446	354243161772	533133233773	374417575573	645322146747
(480)	177350571243	724404651760	435463464567	4400				

FILE 1 RECORD 1202 LENGTH 500BYTES

(0)	555555555555	552303401732	756600000000	000017216000	000000000000	172454000000	000000001723	527032511443
(48)	264417275241	353664030346	174042640613	716662131726	504000000000	000017214435	751101535072	172066334154
(96)	444165061717	450061127552	713217206031	123476142021	172043515466	424726431716	627566315623	466517344103
(144)	702667722463	173556430631	041101301774	450770700432	256617715070	054042343751	176041257473	762763471753
(192)	413620275255	175117305034	162107637253	173375340617	004264301732	452102524375	643317364037	474766713624
(240)	173246534146	050550621734	510244571300	255417334350	142125627346	173547047670	334037201720	412524162171
(288)	566017374237	415750765346	172264233664	162301426055	044077512144	347617227371	633421532275	171775417677
(336)	463500001722	642674041373	360760533541	144660414452	172745343473	550410411723	540000000000	000060533506
(384)	561607446732	171775417677	463500006054	335177654004	535317177331	630011417640	175170764074	566534151740
(432)	506333165754	526017514340	400773237570	174056746044	521304651772	421022541050	524617554053	405667356340
(480)	177255171325	725245271757	406545402767	2000				

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	1202	1204	375	0	1	0	0	1	1

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

79-007A-12A

D-45297
3/31/79

DUMP OF TAPE X400

```
. INPUT TAPE  X400     ON  MT1
  DATA INPUT    09 EL 1 1 STOP
```

1479 3 31

FILE	1 RECORD	1 LENGTH	1479 BYTES	3		31		
(0)	555555555555	552303401732	756600000000	000017216000	000000000000	172476000003	000000001725	441427365701
(48)	445317274404	670224621555	173755622601	217270241726	550000000000	000017164573	011117244767	171640311364
(96)	505171161713	541652446525	650717204261	457111524526	171760304453	754045541716	522516145351	117617315357
(144)	601626327665	173564236715	716473571772	426445377231	534617716677	306554412276	175544007235	000716061752
(192)	747452405703	467017306157	532617514267	173541107077	221011741732	664457932701	362017365477	042505533335
(240)	173261160223	171105571735	400563775102	331617337570	270475721517	173571575026	364667571724	512545536252
(288)	107617367062	341001313041	172254360625	241152706055	204722551260	540117226173	231334515740	172451122367
(336)	545575201722	544106155136	407360533561	006531734703	172756536346	662053721723	440000000000	000060535503
(384)	672026245564	172451122367	545575206054	241604262321	100317245133	233121600224	174742137124	702023221735
(432)	410763002474	171117474076	703674651512	173571442620	571067731772	647101344664	621217574461	610551746036
(480)	177265033417	361223621760	412054430643	4000				

```
EOJ     STOP REQUESTED IN FILE     1

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

START TIME 07/06/81  17:26:38          STOP TIME 07/06/81  17:26:51
```

```
$$
$REW LO
```

D-45298
4/1/79

DUMP OF TAPE X406

INPUT TAPE X406 ON MT1
DATA INPUT 09 FL 1 1 STOP

FILE	1 RECORD	1 LENGTH	BYTES					
(0)	555555555555	552303401732	756600000000	000017224000	000000000000	172040000000	000000001724	772002641441
(48)	062217274526	274111074512	172750165706	517676351726	554000000000	000017206416	231221541765	172047700213
(96)	127320301716	613103743303	756117207704	451762212541	172065415034	337222071716	461363153134	154717347011
(144)	172661061446	173546154673	612666731775	562747364231	250617707574	664702226124	176046034046	603071561753
(192)	414552532460	406417317576	356251767627	173544026663	106353461731	737667261607	275417364017	031717107730
(240)	173355675370	504212301733	635463652302	006617344677	343351166700	173473012552	761364071722	647304276174
(288)	655017375174	323473616426	172275676636	303735461721	506010527572	473017227600	356353154406	172264707652
(336)	472073231722	757410630356	030160543560	457520023034	172752434605	476110451723	540000000000	000060543504
(384)	441440035412	172264707652	472073236054	345717002644	712117226466	176226407367	175251542421	674222031737
(432)	556466250572	544317524042	100444443354	173755127724	256224351773	466707262702	645517607654	311633325746
(480)	177242052022	410421561757	525567222107	7400				

EOJ STOP REQUESTED IN FILE 1

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

START TIME 07/06/81 17:32:03 STOP TIME 07/06/81 17:32:14

$$

STP P78-2

ENERGETIC ION SPECTROMETER

79-007A-13A SPMS-00094

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 760 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
DR005890	DS005890	D047128	1	03/22/79 - 03/22/79

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

ENERGETIC ION SPECTROMETER

79-007A-13A

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

D#	C#	TIME SPAN
D-47128	C-22003	3/22/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 77-009A-12A

DATE DATA RECEIVED: 12/30/81

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:	1 mag tape

SATELLITE NAME/NSDF NAME: Exosat

EXPERIMENT NAME: Energetic Solar Spectrometer

DATA SET FULL NAME:

CONTACT: _____ ACQUISITION SCIENTIST: DAS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: [X] A NEW DATA SET [ ] ADDITIONS [ ] REPLACEMENTS [ ] OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DD47128 C-22003

REMARKS:

1 DAU

DATA RECEIPT NOTIFICATION SENT? [ ]

Linda Moore
DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

Date Dec. 26

NSSDC ID 79-007A-13A

CDAW DATA SET ENTRY

Date Rcvd : Dec28 CDB : ϕb

Data Sent By : R Strangeway

Material Rcvd : 1 tape, letter, dump

satellite/NSRF Name : ~~Scatha~~ Scatha STP P78-2

Data Set Name : Energetic Ion spectrometer

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage : 1979 Mar 22nd 7h - 18h

Tapes To be Returned to :

Completed By : M. Teague

Lockheed
PALO ALTO
RESEARCH
LABORATORY

Department 52-12, Building 255
3251 HANOVER STREET · PALO ALTO, CALIFORNIA · 94304

December 17, 1981

Mr. Don Sawyer
Code 601/NSSDC
Goddard Space Flight Center
Greenbelt, MD 20771

Dear Don:

Please find enclosed one magnetic tape and a listing of the contents of the tape. The tape contains 15 minute averages of data obtained from the Lockheed Ion Mass Spectrometer (Experiment #SC-8) flown on the SCATHA (P78-2) spacecraft for Day 081, 1979. The data is given as differential number flux as a function of energy for the two principal masses, protons (mass 1) and oxygen (mass 16), together with the total number density and energy density as computed for the energy range of the instrument (0.1 - 32 keV). The data have been labelled accordingly.

The data are written in ASCII with 80 characters per line and 31 lines per record on a 9 track tape at 1600 bpi. There are consequently 2480 characters (bytes) per record.

For the purposes of timing, I have included the start time in seconds and also in HH:MM:SS together with the end time for each record. For the purposes of timing note that each 15 minute average starts as soon after

07:30, 22:30, 37:30 and 52:30

in each hour as is consistent with the timing of the data from the spacecraft together with possible data drop-out.

The first average starts at 07:37:30 with the last average finishing at 17:37:30. There is a data drop out between 10:37:30 and 11:22:30.

At this time I do not intend to send any data for the day 90-91 event. We will produce summary plots for the CDAW.

If you have any questions or problems with the tape and the data please call me on (415) 858-4089. Unfortunately I will be away from Lockheed until the New Year.

Wishing you all the best for the holiday season.

Yours sincerely,

Bob Strangeway

BS:jm

Enclosure

Participant: R. Strangeway

Data Set Mnemonic: SC13

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-13A

Data Set Name: Energetic Ion Spectrometer

Principal Investigators: R. Johnson , Lockheed, Palo Alto

Data Availability: YY/DDD/HH/MM/SS - YY/DDD/HH/MM/SS
79/081/07/37/34 - 79/081/17/33/18 for CDB-6A

Data Time Interval: 15 min

Description	Mnemonic	Units	Tuple
Total Proton Density	SC13PTDN	/cm3	
Total Oxygen Density	SC13OXDN	/cm3	
Proton Energy Density	SC13PEND	keV/cm3	
Oxygen Energy Density	SC13OEND	keV/cm3	
? Particle Energy	SC13EN	keV	
Proton Number Flux	SC13PTFX	/cm2.s.ster.keV	
Oxygen Number Flux	SC13OXFX	/cm2.s.ster.keV	
? DECOMMUTATOR PARAMETER	SC13DEC	none	

724 energies

100 eV to 32 keV

D-47128

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

  TAPE NO.   1              FILE NO.   1
  RECORD   1                LENGTH   2480
 START=27454 (07:37:34)  END=28334 (07:52:14)  PA=ALL  DAY 81 (MARCH 22) 1979                              M
 ASS 1              MASS 16                                  STEP ENERGY(KEV)  DIFFERENTIAL NUMBER
 FLUX(/CM**2-SEC-STER-KEV)                        1    0.100        9.1E+05          1.4E+05
                                  2    0.129        3.2E+05          4.1E+05
       3    0.165        1.3E+06          5.9E+04                                          4    0.212
     8.7E+05          3.0E+00                                          5    0.273        8.5E+05
 3.3E+05                                      6    0.350        6.1E+05          3.3E+05
                                7    0.450        7.3E+05          1.7E+05
           8    0.579        4.2E+05          5.6E+04                                          9    0.744
        3.7E+05          2.4E+05                                          10    0.956        2.8E+05
     8.4E+04                                          11    1.230        1.7E+05          1.3E+05
                                12    1.580        1.1E+05          1.1E+05
            13    2.030        2.4E+05          5.4E+04                                          14    2
 .610        2.1E+05          4.9E+04                                          15    3.350        1.0E+05
        2.3E+04                                          16    4.300        1.2E+05          0.0E+00
                                17    5.530        1.1E+05          0.0E+00
              18    7.110        6.9E+04          7.7E+01                                          19
   9.130        8.3E+04          1.1E+04                                          20   11.730        1.1E
 +05          6.9E+03                                          21   15.080        8.9E+04          0.0E+00
                                22   19.380        1.5E+05          1.1E+03
                          23   24.900        1.4E+05          4.0E+03
  24   32.000          4.3E+04          5.4E+02
 DENSITY(/CM**3)                                                          0.586            0.4
 33                                                  ENERGY DENSITY(KEV/CM**3)
                                      3.946            0.665
```

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

```
 $$
 POS TD3T5T
```

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

ENERGETIC PROTON FLUXES - 1 MIN AVERAGES

79-007A-14A SPMS-00351

This data set catalog consists of 1 tape(s). The tape(s) are 9 track, 1600 bpi, ascii with 4 file(s) of data. The time span D and C numbers are as follows:

D#	C#	TIME SPAN
D-46727	C-21793	3/22/79,3/31/79, 4/1/79, 4/3/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 77-007A-14A

DATE DATA RECEIVED: 10/22/81

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:	1 mag tape

SATELLITE NAME/NSDF NAME: SCATHA

EXPERIMENT NAME: _____

DATA SET FULL NAME: ENERGETIC PROTON FLUXES - 1 MIN AVERAGES

CONTACT: _____ ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: [X] A NEW DATA SET [ ] ADDITIONS [ ] REPLACEMENTS [ ] OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DD 46727 C-21793

REMARKS:

CDAW

DATA RECEIPT NOTIFICATION SENT? [ ]

Linda Moran

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

copy

Date 10/22/81

NSSDC ID 79-007A-14A

CDAW DATA SET ENTRY

Date Rcvd: 10/20/81 CDB: 6

Data Sent By: Walter N. Spjeldvik - NOAA/ERL

Material Rcvd: 1 Tape - 1 page documentation

4 files - 1600 bpi - 9TRK ASCII

CDC 160

Satellite/NSRF Name: SCATHA - (P STP P78-2)

Data Set Name: Energetic Proton Fluxes - 1 MIN AVERAGES

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage: Probably 1979, DAY 81, 90, 91 + ?

Tapes To be Returned to: Walter N. Spjeldvik
NOAA/ERL, Space Environment Lab.
Boulder, Colorado

Please get an ASCII dup

Completed By: D. Sawyer

NASA
National Aeronautics and Space Administration

DATA ANALYSIS WORKSHOP CENTER

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (please print)

1. Data Set Name: SCATHA - SPJELDVIK Instrument SC2-6		
2. Scientific Contact: Walther N. Spjeldvik	3. Telephone No. or Telex No.: (303) - 497 - 3186	
4. Address: NOAA/ERL, Space Environment Laboratory, Code R43		
5. City: Boulder	6. State: Colorado	7. ZIP Code or Country: 80303
8. Programmer Contact: Walther N. Spjeldvik		

SECTION II. TAPE DESCRIPTION

1. No. of Tapes Submitted: 1	2. Tape Density: ☐ 800 bpi ☒ 1600 bpi
3. No. of Files (per tape): 4	
4. No. of End of File Marks	5. No. of Tracks: ☐ 7 ☒ 9
6. Recording Parity: blocked 200-byte records, blocksize 5000 bytes	7. Make and Model of Computer Used to Generate Tape: CDC - Cyber 760
8. Are tapes written in binary, coded or both? (e.g. BCD): ASCII	
9. What floating point representation is used? (e.g. CDC 64 bit): ASCII with IPE12.5	
10. What integer representation is used?: no integers	
11. No. of Physical Records (per file): File 1: 1119 Records; File 2: 1411 Records; File 3: 11441 Records; File 4: 1380 Records	
12. Are original tapes to be returned? ☒ Yes ☐ No	
13. Start and Stop Time of Each File (If more space is needed, please attach.): Each file has 1 min-averages for the full day, i.e. 0000-2400 hr; timing is part of the record.	

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

SECTION IV. TO BE FILLED IN BY DAWOC ONLY

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

601-79 (10/80)

The data are "averaged" (selected) for 1-min periods. For each minute data are given as follows:

29-607A-14A
10/20/81

Time-of-day (in sec), $j_1(90°)$, $j_1(30°)$, $j_2(90°)$, $j_2(30°)$, $j_3(90°)$, $j_3(30°)$, $j_4(90°)$, $j_4(30°)$, $j_5(90°)$, $j_5(30°)$, $j_6(90°)$, $j_6(30°)$, $j_7(90°)$, $j_7(30°)$, blank space of 12 characters

Each number is coded in ascii according to format 1PE12.5 there is one such set of numbers for each minute of the day.

The data set is preceded by a short text line giving day, year, instrument, etc in plain English (ASCII).

Energy passbands:

Channel #	lower threshold (kev)	higher threshold (kev)	ΔE (kev)
1	14	24	10
2	24	48	24
3	48	96	48
4	96	170	74
5	170	354	184
6	354	698	344
7	698	3300	2402

Geometric factor is $g = 2.01 \times 10^{-3}$ cm^2 ster

All fluxes are given in flux units: (ions/cm^2 sec ster kev) and have been converted from count rate Φ to flux j by $j = \Phi/(g\Delta E)$.

Within each one-minute interval all occurring 90° and 30° ($\pm$10° each) have been averaged over. Bad data (or non-sampling) is given as :--

Participant: B. Ledley

Data Set Mnemonic: SC08

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-08A

Data Set Name: Magnetic Field Monitor

Principal Investigators: B. Ledley, NASA/GSFC

Data Availability: YY/DDD/HH/MM/SS - YY/DDD/HH/MM/SS
79/081/06/00/20 - 79/081/20/00/00
79/090/12/00/00 - 79/091/05/59/26

Data Time Interval: 1 min

Description	Mnemonic	Units	Tuple
X-Component of Magnetic Field in Topographic Coordinates; X = North	SC08FGX	nT	
Y-Component of Magnetic Field in Topographic Coordinates; Y = East	SC08FGY	nT	
Z-Component of Magnetic Field in Topographic Coordinates; Z = Down	SC08FGZ	nT	
X-Component of Dipole Magnetic Field in Topographic Coordinates	SC08BGX	nT	
Y-Component of Dipole Magnetic Field in Topographic Coordinates	SC08BGY	nT	
Z-Component of Dipole Magnetic Field in Topographic Coordinates	SC08BGZ	nT	
Measured Minus Dipole Field; X-Component	SC08DGX	nT	
Measured Minus Dipole Field; Y-Component	SC08DGY	nT	
Measured Minus Dipole Field; Z-Component	SC08DGZ	nT	
Magnitude of the Measured Field	SC08F	nT	
Magnitude of the Dipole Model Field	SC08B	nT	
Declination of Measured Field	SC08BD	deg	
Inclination of Measured Field	SC08BI	deg	

Participant: B. Ledley

Data Set Mnemonic: SC08

(cont'd)

Description	Mnemonic	Units	Tuple
Inclination of Dipole Model Field	SC08FI	deg	
Declination of Dipole Model Field	SC08FD	deg	
Standard Deviation of One Minute Sets of the Total Measured Field	SC08FDV	nT	
Standard Deviation of One Minute Sets of the X-Component of the Measured Field	SC08GXDV	nT	
Standard Deviation of One Minute Sets of the Y-Component of the Measured Field	SC08GYDV	nT	
Standard Deviation of One Minute Sets of the Z-Component of the Measured Field	SC08GZDV	nT	

Participant: W. Spjeldvik

Data Set Mnemonic: SC14

Satellite ID: SCATHA (STP P78-2)

NSSDC ID: 79-007A-14A

Data Set Name: Energetic Proton Detector

Principal Investigators: J. B. Blake, Aerospace Corporation

Data Availability: YY/DDD/HH/MM/SS - YY/DDD/HH/MM/SS
79/081/06/00/00 - 79/081/20/00/00
79/090/06/00/00 - 79/091/06/00/00

Data Time Interval: 60s

Description	Mnemonic	Units	Tuple
Channel 1 - Protron Flux 14-24 keV Pitch Angle 90 deg +/- 10	SC14C190	/cm2.s.sr.keV	
Channel 1 - Protron Flux 14-24 keV Pitch Angle 30 deg +/- 10	SC14C130	/cm2.s.sr.keV	
Channel 2 - Protron Flux 24-48 keV Pitch Angle 90 deg +/- 10	SC14C290	/cm2.s.sr.keV	
Channel 2 - Protron Flux 24-48 keV Pitch Angle 30 deg +/- 10	SC14C230	/cm2.s.sr.keV	
Channel 3 - Protron Flux 48-96 keV Pitch Angle 90 deg +/- 10	SC14C390	/cm2.s.sr.keV	
Channel 3 - Protron Flux 48-96 keV Pitch Angle 30 deg +/- 10	SC14C330	/cm2.s.sr.keV	
Channel 4 - Protron Flux 96-170 keV Pitch Angle 90 deg +/- 10	SC14C490	/cm2.s.sr.keV	
Channel 4 - Protron Flux 96-170 keV Pitch Angle 30 deg +/- 10	SC14C430	/cm2.s.sr.keV	
Channel 5 - Protron Flux 170-354 keV Pitch Angle 90 deg +/- 10	SC14C590	/cm2.s.sr.keV	
Channel 5 - Protron Flux 170-354 keV Pitch Angle 30 deg +/- 10	SC14C530	/cm2.s.sr.keV	
Channel 6 - Protron Flux 354-698 keV Pitch Angle 90 deg +/- 10	SC14C690	/cm2.s.sr.keV	

Participant: W. Spjeldvik

Data Set Mnemonic: SC14

(cont'd)

Description	Mnemonic	Units	Tuple
Channel 6 - Protron Flux 354-698 keV Pitch Angle 30 deg +/- 10	SC14C630	/cm2.s.sr.keV	
Channel 7 - Protron Flux 698-3300 keV Pitch Angle 90 deg +/- 10	SC14C790	/cm2.s.sr.keV	
Channel 7 - Protron Flux 698-3300 keV Pitch Angle 30 deg +/- 10	SC14C730	/cm2.s.sr.keV	

D-46727
3/22/79 → 4/3

```
$JOB  14:54:32
$NOP ******* ASCII LIST OF X-400 ******************
$ASS IN MT3
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 4

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   5J00
 DAY= 90(MAR31)1979   SCATHA SC2-6 IONS  W.N. SPJELDVIK,  NOAA/SEL

    4.21020E+01  1.47313E+05 9.37562E+04 4.48507E+04 2.30752E+04 3.92309E+03 2.42667E+03 4.26919E+0
2 2.47496E+02 1.68992E+01 6.75968E+00 3.61564E-01 3.61564E-01 1.03562E-01 7.76716E-02
      1.02102E+02  1.42090E+05 9.13638E+04 4.33582E+04 2.31475E+04 3.64842E+03 2.44549E+03 3.54646E
+02 2.53502E+02 1.08155E+01 9.06592E+00 3.61564E-01 5.95518E-01 1.03562E-01 3.65513E-02
       1.62102E+02  1.41244E+05 8.85660E+04 4.18905E+04 2.20881E+04 3.70025E+03 2.32233E+03 3.3279
5E+02 2.34914E+02 1.21674E+01 7.95256E+00 0.          8.50739E-02 1.55343E-01 3.65513E-02
         2.22102E+02  1.44328E+05 8.76381E+04 4.34826E+04 2.26381E+04 3.80390E+03 2.36537E+03 4.20
196E+02 2.38141E+02 1.35194E+01 7.25776E+00 3.61564E-01 4.56713E-01 1.03562E-01 5.45064E-02
           2.82102E+02  1.49270E+05 8.78581E+04 4.66750E+04 2.26800E+04 4.13212E+03 2.44938E+03 3.
78737E+02 2.40618E+02 1.26181E+01 5.97698E+00 0.          3.04475E-01 1.38083E-01 8.72102E-02
            3.42101E+02  1.48756E+05 8.88391E+04 4.59204E+04 2.30956E+04 3.95419E+03 2.45071E+03
3.83219E+02 2.41286E+02 2.16310E+01 7.81119E+00 3.61564E-01 1.60695E-01 0.          5.75345E-02
              4.02101E+02  1.48458E+05 8.98068E+04 4.69403E+04 2.34021E+04 4.17444E+03 2.53146E+0
3 4.47089E+02 2.27400E+02 1.35194E+01 7.47541E+00 0.          1.70148E-01 5.17811E-02 1.21838E-01
             4.62101E+02  1.50796E+05 8.77114E+04 4.83665E+04 2.31312E+04 4.57435E+03 2.47785E
+03 4.54933E+02 2.08417E+02 1.26181E+01 5.23875E+00 0.          9.03911E-02 6.90414E-02 9.06169E-02
                5.22101E+02  1.54428E+05 8.62131E+04 5.03731E+04 2.29778E+04 4.62272E+03 2.4692
7E+03 4.26919E+02 1.94576E+02 1.55473E+01 3.97628E+00 0.          1.70148E-01 5.17811E-02 3.65513E-
02                  5.82101E+02  1.52687E+05 8.64706E+04 4.92289E+04 2.29222E+04 4.35323E+03 2.42
781E+03 4.00027E+02 1.89039E+02 1.35194E+01 9.06592E+00 3.61564E-01 3.40296E-01 5.17811E-02 8.52865
E-02                   6.42101E+02  1.46816E+05 8.56592E+04 4.68740E+04 2.35945E+04 4.55017E+03 2.
45323E+03 3.69773E+02 2.07577E+02 1.08155E+01 7.77363E+00 1.44626E+00 0.          6.90414E-02 6.472
63E-02                    7.02101E+02  1.48955E+05 8.70442E+04 4.68159E+04 2.37299E+04 4.31696E+03
2.43208E+03 4.58854E+02 2.11581E+02 1.62232E+01 7.15731E+00 3.61564E-01 4.25370E-01 1.03562E-01 8.5
2865E-02                     7.62101E+02  1.50896E+05 8.67632E+04 4.86567E+04 2.42771E+04 4.69009E+0
3 2.56438E+03 5.68105E+02 2.82372E+02 1.82511E+01 7.95256E+00 7.23129E-01 4.25370E-01 2.07124E-01 6
.09189E-02                      8.22100E+02  1.51725E+05 8.56512E+04 4.95605E+04 2.47600E+04 5.06841E
+03 2.73998E+03 7.66438E+02 3.46835E+02 2.43348E+01 1.19288E+01 0.          5.95518E-01 2.07124E-01
 9.74702E-02                       8.82100E+02  1.49204E+05 8.51741E+04 4.71393E+04 2.44975E+04 5.3767
6E+03 3.04934E+03 8.52158E+02 4.32634E+02 1.62232E+01 7.84123E+00 0.          5.78503E-01 1.55343E-
01 9.32059E-02                        9.42100E+02  1.48275E+05 8.38507E+04 4.88972E+04 2.47711E+04 6.23
618E+03 3.42092E+03 8.87455E+02 4.46417E+02 1.71245E+01 1.02747E+01 1.92834E+00 1.37394E+00 1.38083
E-01 8.28497E-02                         1.00210E+03  1.55771E+05 8.31710E+04 5.18408E+04 2.56703E+04 6.
84080E+03 3.72371E+03 1.01688E+03 4.51158E+02 1.55473E+01 8.82316E+00 1.08469E+00 1.75073E+00 1.035
62E-01 7.63089E-02                          1.06210E+03  1.58607E+05 8.28027E+04 5.22637E+04 2.64129E+04
7.25021E+03 3.81288E+03 9.37878E+02 4.72413E+02 2.90666E+01 1.60430E+01 2.53095E+00 1.92834E+00 1.0
3562E-01 9.66580E-02                           1.12210E+03  1.57496E+05 8.14151E+04 5.41376E+04 2.66750E+0
4 7.43850E+03 3.81484E+03 1.03088E+03 4.35884E+02 2.61374E+01 2.35838E+01 3.85669E+00 2.73182E+00 1
.38083E-01 5.75345E-02                            1.18210E+03  1.53025E+05 8.30641E+04 5.27512E+04 2.77627E
+04 7.41915E+03 3.92157E+03 9.43929E+02 4.53219E+02 3.08241E+01 3.05378E+01 5.20653E+00 1.70148E+00
 3.31399E-01 1.09654E-01                             1.24210E+03  1.55041E+05 8.10038E+04 5.73549E+04 2.7411
5E+04 7.62161E+03 3.89352E+03 9.14347E+02 4.40563E+02 4.28113E+01 3.26055E+01 4.57981E+00 2.38207E+
00 3.10686E-01 1.34022E-01                              1.30210E+03  1.56169E+05 8.21236E+04 5.74627E+04 2.77
206E+04 7.48342E+03 3.98446E+03 9.66452E+02 4.62481E+02 6.62449E+01 4.16966E+01 1.80782E+00 2.58804
E+00 1.55343E-01 9.81115E-02                               1.36210E+03  1.51592E+05 8.05252E+04 5.72886E+04 2.
84605E+04 7.90837E+03 3.78777E+03 9.34517E+02 4.87054E+02 7.36805E+01 5.39272E+01 2.89251E+00 2.812
17E+00 2.58905E-01 1.15069E-01                                1.42210E+03  1.58027E+05 7.99392E+04 5.92454E+04
2.89773E+04 8.11567E+03 3.99450E+03 9.86061E+02 4.89669E+02 9.01291E+01 7.66097E+01 3.37460E+00 3.0
5321E+00 6.90414E-02 1.03562E-01

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   5000
```

D-46727
3/22/79 → 4/3

```
$JOB  14:54:32
$NOP ******* ASCII LIST OF X-400 ******************
$ASS IN MT3
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 4

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   5J00
 DAY= 90(MAR31)1979   SCATHA SC2-6 IONS  W.N. SPJELDVIK,  NOAA/SEL

    4.21020E+01  1.47313E+05 9.37562E+04 4.48507E+04 2.30752E+04 3.92309E+03 2.42667E+03 4.26919E+0
2 2.47496E+02 1.68992E+01 6.75968E+00 3.61564E-01 3.61564E-01 1.03562E-01 7.76716E-02
      1.02102E+02  1.42090E+05 9.13638E+04 4.33582E+04 2.31475E+04 3.64842E+03 2.44549E+03 3.54646E
+02 2.53502E+02 1.08155E+01 9.06592E+00 3.61564E-01 5.95518E-01 1.03562E-01 3.65513E-02
       1.62102E+02  1.41244E+05 8.85660E+04 4.18905E+04 2.20881E+04 3.70025E+03 2.32233E+03 3.3279
5E+02 2.34914E+02 1.21674E+01 7.95256E+00 0.          8.50739E-02 1.55343E-01 3.65513E-02
         2.22102E+02  1.44328E+05 8.76381E+04 4.34826E+04 2.26381E+04 3.80390E+03 2.36537E+03 4.20
196E+02 2.38141E+02 1.35194E+01 7.25776E+00 3.61564E-01 4.56713E-01 1.03562E-01 5.45064E-02
           2.82102E+02  1.49270E+05 8.78581E+04 4.66750E+04 2.26800E+04 4.13212E+03 2.44938E+03 3.
78737E+02 2.40618E+02 1.26181E+01 5.97698E+00 0.          3.04475E-01 1.38083E-01 8.72102E-02
            3.42101E+02  1.48756E+05 8.88391E+04 4.59204E+04 2.30956E+04 3.95419E+03 2.45071E+03
3.83219E+02 2.41286E+02 2.16310E+01 7.81119E+00 3.61564E-01 1.60695E-01 0.          5.75345E-02
              4.02101E+02  1.48458E+05 8.98068E+04 4.69403E+04 2.34021E+04 4.17444E+03 2.53146E+0
3 4.47089E+02 2.27400E+02 1.35194E+01 7.47541E+00 0.          1.70148E-01 5.17811E-02 1.21838E-01
             4.62101E+02  1.50796E+05 8.77114E+04 4.83665E+04 2.31312E+04 4.57435E+03 2.47785E
+03 4.54933E+02 2.08417E+02 1.26181E+01 5.23875E+00 0.          9.03911E-02 6.90414E-02 9.06169E-02
                5.22101E+02  1.54428E+05 8.62131E+04 5.03731E+04 2.29778E+04 4.62272E+03 2.4692
7E+03 4.26919E+02 1.94576E+02 1.55473E+01 3.97628E+00 0.          1.70148E-01 5.17811E-02 3.65513E-
02                  5.82101E+02  1.52687E+05 8.64706E+04 4.92289E+04 2.29222E+04 4.35323E+03 2.42
781E+03 4.00027E+02 1.89039E+02 1.35194E+01 9.06592E+00 3.61564E-01 3.40296E-01 5.17811E-02 8.52865
E-02                   6.42101E+02  1.46816E+05 8.56592E+04 4.68740E+04 2.35945E+04 4.55017E+03 2.
45323E+03 3.69773E+02 2.07577E+02 1.08155E+01 7.77363E+00 1.44626E+00 0.          6.90414E-02 6.472
63E-02                    7.02101E+02  1.48955E+05 8.70442E+04 4.68159E+04 2.37299E+04 4.31696E+03
2.43208E+03 4.58854E+02 2.11581E+02 1.62232E+01 7.15731E+00 3.61564E-01 4.25370E-01 1.03562E-01 8.5
2865E-02                     7.62101E+02  1.50896E+05 8.67632E+04 4.86567E+04 2.42771E+04 4.69009E+0
3 2.56438E+03 5.68105E+02 2.82372E+02 1.82511E+01 7.95256E+00 7.23129E-01 4.25370E-01 2.07124E-01 6
.09189E-02                      8.22100E+02  1.51725E+05 8.56512E+04 4.95605E+04 2.47600E+04 5.06841E
+03 2.73998E+03 7.66438E+02 3.46835E+02 2.43348E+01 1.19288E+01 0.          5.95518E-01 2.07124E-01
 9.74702E-02                       8.82100E+02  1.49204E+05 8.51741E+04 4.71393E+04 2.44975E+04 5.3767
6E+03 3.04934E+03 8.52158E+02 4.32634E+02 1.62232E+01 7.84123E+00 0.          5.78503E-01 1.55343E-
01 9.32059E-02                        9.42100E+02  1.48275E+05 8.38507E+04 4.88972E+04 2.47711E+04 6.23
618E+03 3.42092E+03 8.87455E+02 4.46417E+02 1.71245E+01 1.02747E+01 1.92834E+00 1.37394E+00 1.38083
E-01 8.28497E-02                         1.00210E+03  1.55771E+05 8.31710E+04 5.18408E+04 2.56703E+04 6.
84080E+03 3.72371E+03 1.01688E+03 4.51158E+02 1.55473E+01 8.82316E+00 1.08469E+00 1.75073E+00 1.035
62E-01 7.63089E-02                          1.06210E+03  1.58607E+05 8.28027E+04 5.22637E+04 2.64129E+04
7.25021E+03 3.81288E+03 9.37878E+02 4.72413E+02 2.90666E+01 1.60430E+01 2.53095E+00 1.92834E+00 1.0
3562E-01 9.66580E-02                           1.12210E+03  1.57496E+05 8.14151E+04 5.41376E+04 2.66750E+0
4 7.43850E+03 3.81484E+03 1.03088E+03 4.35884E+02 2.61374E+01 2.35838E+01 3.85669E+00 2.73182E+00 1
.38083E-01 5.75345E-02                            1.18210E+03  1.53025E+05 8.30641E+04 5.27512E+04 2.77627E
+04 7.41915E+03 3.92157E+03 9.43929E+02 4.53219E+02 3.08241E+01 3.05378E+01 5.20653E+00 1.70148E+00
 3.31399E-01 1.09654E-01                             1.24210E+03  1.55041E+05 8.10038E+04 5.73549E+04 2.7411
5E+04 7.62161E+03 3.89352E+03 9.14347E+02 4.40563E+02 4.28113E+01 3.26055E+01 4.57981E+00 2.38207E+
00 3.10686E-01 1.34022E-01                              1.30210E+03  1.56169E+05 8.21236E+04 5.74627E+04 2.77
206E+04 7.48342E+03 3.98446E+03 9.66452E+02 4.62481E+02 6.62449E+01 4.16966E+01 1.80782E+00 2.58804
E+00 1.55343E-01 9.81115E-02                               1.36210E+03  1.51592E+05 8.05252E+04 5.72886E+04 2.
84605E+04 7.90837E+03 3.78777E+03 9.34517E+02 4.87054E+02 7.36805E+01 5.39272E+01 2.89251E+00 2.812
17E+00 2.58905E-01 1.15069E-01                                1.42210E+03  1.58027E+05 7.99392E+04 5.92454E+04
2.89773E+04 8.11567E+03 3.99450E+03 9.86061E+02 4.89669E+02 9.01291E+01 7.66097E+01 3.37460E+00 3.0
5321E+00 6.90414E-02 1.03562E-01

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   5000
```

STP P78-2

64-S DIFRENTIAL ELECTRON FLUX, TAPE

79-007A-15A SPMS-00591

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 7094 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
DR005693	DS005693	D047132	1 - 3	03/22/79 - 04/01/79

REQ. AGENT	REQ. NO.	ACQ. AGENT
LSM	V0144	DMS

SCATHA

HIGH ENERGY PARTICLE SPECTROMETER

79-007A-15A

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

D#	C#	TIME SPAN
D-47132	C-22005	3/22/79, 3/31/79, 4/1/79

INFORMATION SHEET FOR INCOMING DATA

NSSDC ID: 79-007A-15A

DATE DATA RECEIVED: 1/6/82

DATE NSDF COORDINATOR CONSULTED:

DATE SCIENTIST NOTIFIED:

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

SATELLITE NAME/NSDF NAME: Isatha

EXPERIMENT NAME:

DATA SET FULL NAME: High Energy Particle Spectrometer

CONTACT: _____ ACQUISITION SCIENTIST: DMS

FORM THAT WILL BE ANNOUNCED IN AIM/NSDF: DD

THESE ARE: [X] A NEW DATA SET [ ] ADDITIONS [ ] REPLACEMENTS [ ] OTHER (EXPLAIN BELOW)

ACCESSION UNIT NUMBERS: DD 7162 C-22005

REMARKS:

CDAW

DATA RECEIPT NOTIFICATION SENT? [ ]

Moran

DATA TECHNICIAN

601-32 (6/76)

ADP SERVICES (MACHINE SENSIBLE ONLY)

Date Jan 4

NSSDC ID 79-007A-15A

CDAW DATA SET ENTRY

Date Rcvd : Jan 4 1982 CDB : ϕ6

Data Sent By : [redacted] J. Reagan

Material Rcvd : Letter, 1 tape, documentation

Verification Plots, Data Listing

Workshop Questionnaire

satellite/NSDF Name : Scatha (STP P78-2)

Data Set Name : High Energy Particle Spectrometer

☒ New Data Set ☐ Additions ☐ Replacements

Comments

Time Coverage : Mar 22 1979 - April 1 1979

Tapes To be Returned to :

Completed By :

Lockheed
PALO ALTO
RESEARCH
LABORATORY

Department 52-12, Building 255
3251 HANOVER STREET · PALO ALTO, CALIFORNIA · 94304
December 23, 1981

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

Dear Dr. Vette:

Please find enclosed a magnetic tape of P78-2 (SCATHA) SC-3 energetic electron flux data for the CDB-6 workshop days of 22 March, 31 March and 1 April 1979. Also please find enclosed a completed workshop questionaire with Dr. J. B. Reagan, SC-3 experiment P.I., as the principle contact for this data set; listings of the data on magnetic tape; and a set of survey plots of this data.

In addition to the brief descriptions of the data set at the beginning of the survey plots and of each data listing, please note the following about the SC-3 data set. The experiment normally dwells for 64 seconds in each of two electron modes, the low energy mode (first 4 channels) and the high energy mode (last 4 channels). Thus for a specified universal time (UT) 4 channels have data and 4 channels contain zeros, which are to be taken as "NO DATA AVAILABLE" not as zero flux. Every 64 seconds the zeros move to the other data group. Thus the spin-averaged differential electron flux (electrons/cm^2-sec-sr-keV) is provided for every other 64 second interval at the interval centroid time, where good data exists, along with the number of seconds of data used in the average. Data gaps are indicated when the number of seconds of average data is zero. Additional zeros can appear in energy channels 7 and 8 when the resultant flux becomes negative upon background subtraction. Please note that taking long-time averages of channels 7 and 8 may give misleading results because of this background subtraction.

If there are any questions regarding the above or the enclosed data please contact Dr. J. B. Reagan (415) 858-4050 or myself (415) 858-4093. We are looking forward to continued participation in CDAW-6.

Sincerely,

Richard Nightingale

Richard W. Nightingale
Space Sciences Laboratory

Enclosures

cc: Dr. Ted Fritz, NOAA
Dr. J. B. Reagan

PRE-CDAW-6
SC-3 DATA SET

Spacecraft: P78-2 - SCATHA Spacecraft

Data source: SC-3 Experiment - Energetic Electrons (47-4970 keV)

Lockheed Palo Alto Research Laboratory:
J. B. Reagan, R. W. Nightingale, W. L. Imhof

Data/format to be provided:

1) 64-sec spin-averaged differential electron flux (e^-/cm^2-sec-sr-keV) for 8 energy channels.

   Channel 1: 47-66 keV
   2: 66-87 keV
   3: 87-129 keV
   4: 129-299 keV
   5: 634-1026 keV
   6: 1026-1419 keV
   7: 1419-2603 keV
   8: 2603-4970 keV

2) Survey plots for each time period are attached.

3) Magnetic tape listing of the data will be available before CDAW meeting.

4) Ten minute averaged pitch angle distribution and spectral plots can be produced for limited time periods.

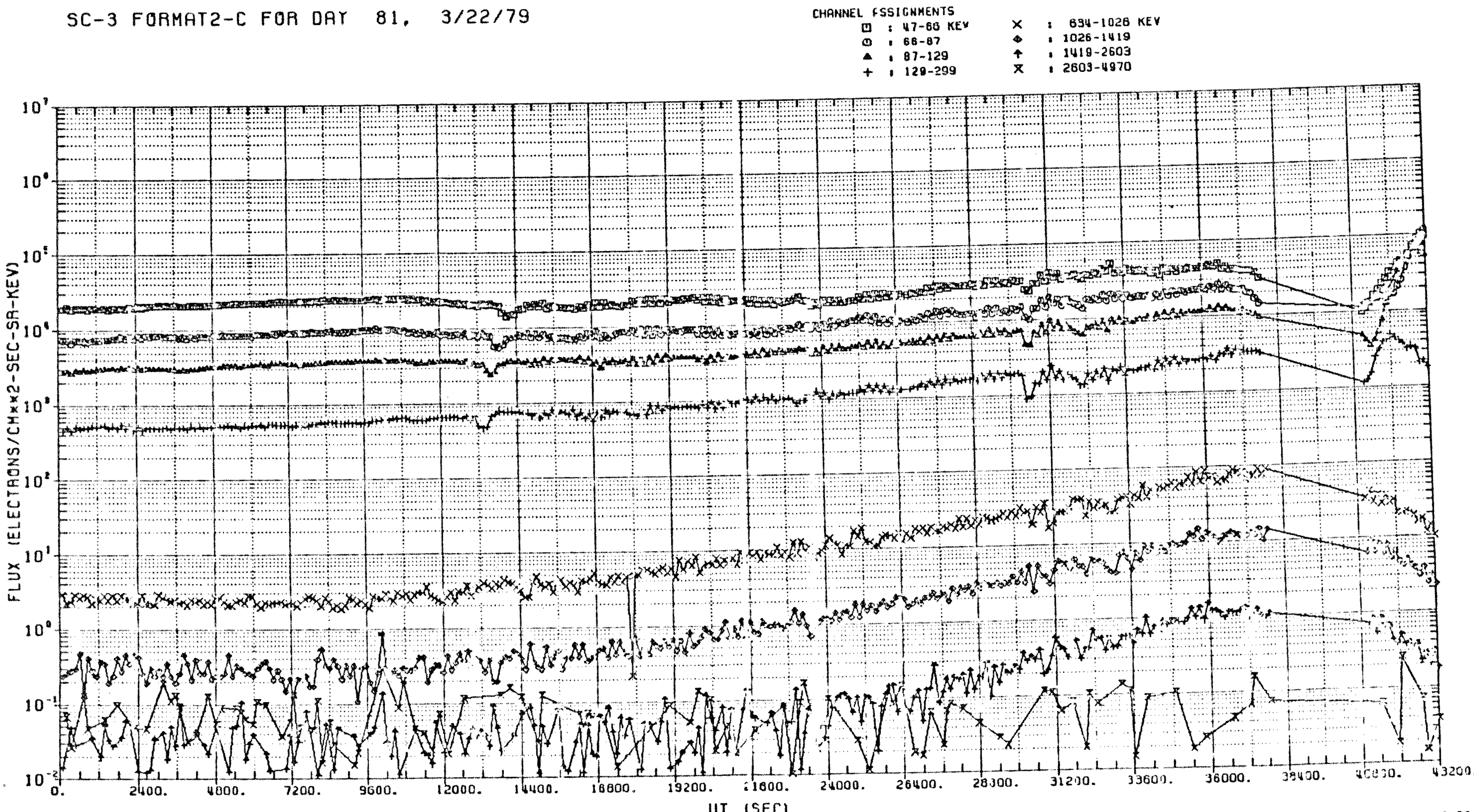
DATA COVERAGE:

1) Day 81, 22 Mar 79 — SC-3 data for whole day available except for gap at ~37200-41000 S UT

2) Day 90, 31 Mar 79 — SC-3 data for whole day available except for gaps at ~4800-12000 S, ~43300-45500 S, and ~53400-70800 S UT.

3) Day 91, 1 Apr 79 — SC-3 data for whole day available except for gap at ~1200-3000 S UT.

SC-3 FORMAT2-C FOR DAY 81, 3/22/79



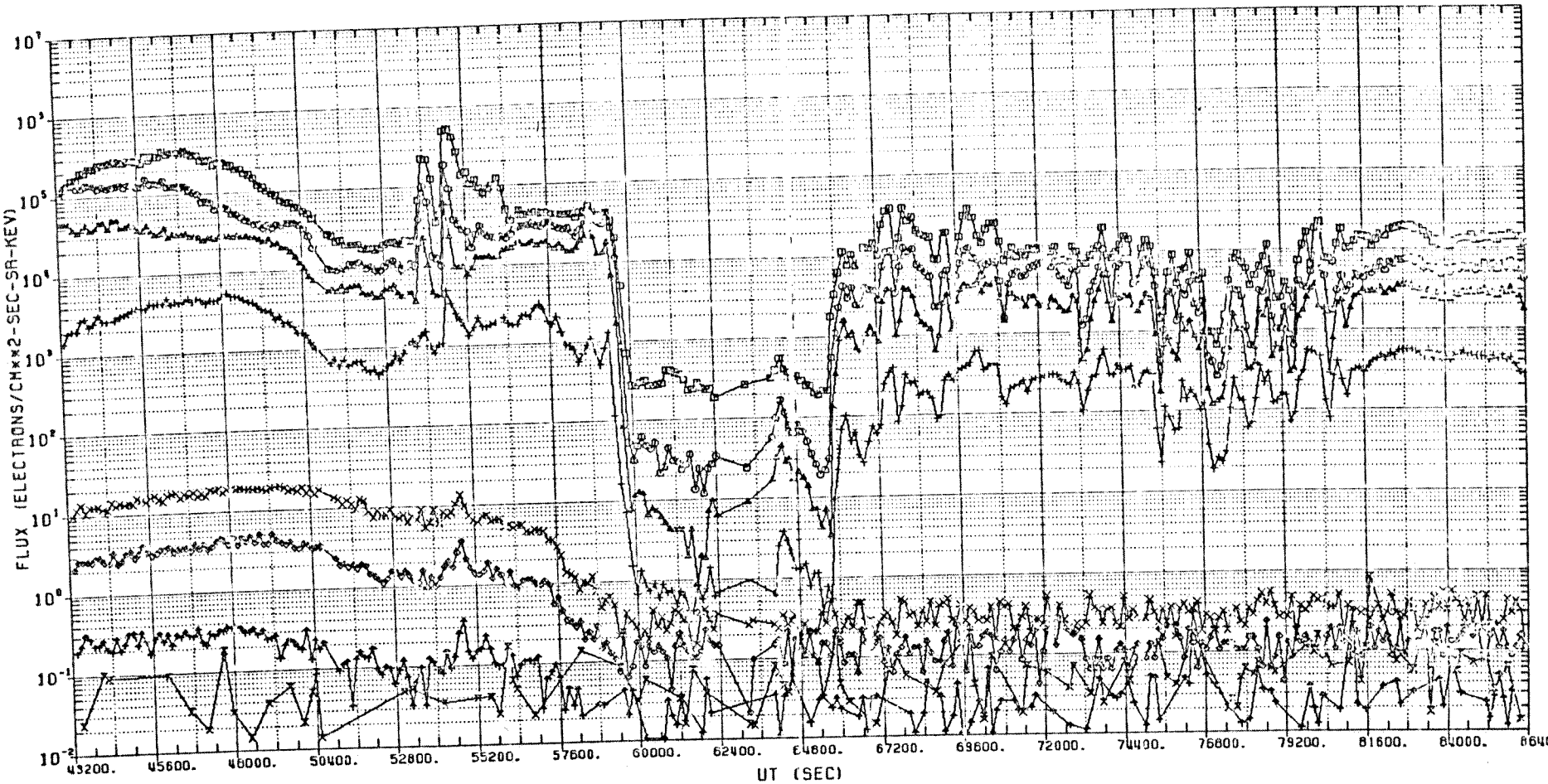
UT(H)	0.00	0.67	1.33	2.00	2.67	3.33	4.00	4.67	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00	10.67	11.33	12.00
LT(H)	4.35	4.84	5.32	5.80	6.26	6.73	7.20	7.68	8.16	8.66	9.18	9.72	10.29	10.89	11.54	12.22	12.96	13.74	14.59
MLT(H)	4.21	4.70	5.19	5.68	6.16	6.65	7.15	7.65	8.16	8.68	9.22	9.77	10.35	10.95	11.59	12.28	12.98	13.74	14.58
GLON	67.10	64.47	61.60	58.73	55.74	52.74	49.78	46.92	44.21	41.71	39.49	37.61	36.16	35.20	34.82	35.10	36.11	37.92	40.54
GLAT	-3.21	-2.28	-1.30	-0.34	0.62	1.58	2.49	3.40	4.28	5.08	5.83	6.50	7.08	7.48	7.72	7.75	7.50	6.93	5.99
MLAT	-11.50	[illegible]	-8.86	-7.47	-6.06	-4.64	-3.23	-1.86	-0.53	0.72	1.86	2.86	3.68	4.28	4.58	4.56	4.12	3.23	1.83
B/B0	1.41	[illegible]	1.19	1.13	1.08	1.05	1.03	1.02	1.01	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.01	[illegible]
L	8.02	[illegible]	7.92	7.87	7.81	7.75	7.68	7.55	7.40	7.23	7.05	6.88	6.72	6.57	6.42	6.25	6.07	5.[illegible]	[illegible].74
KP/DST	1-/18	1-/18	1-/18	1-/14	1-/14	1-/9	1-/10	1-/10	1-/14	4 /15	4 /15	4 /17	4 /33	4 /33	6-/47	6-/37	6-/37	6-/-14	7-/-22

30-NOV-81 10:02:40

SC-3 FORMAT2-C FOR DAY 81, 3/22/79

CHANNEL ASSIGNMENTS

□	47-66 KEV	×	694-1026 KEV
⊙	66-87	◆	1026-1419
▲	87-129	✦	1419-2603
+	129-200	X	2603-4970



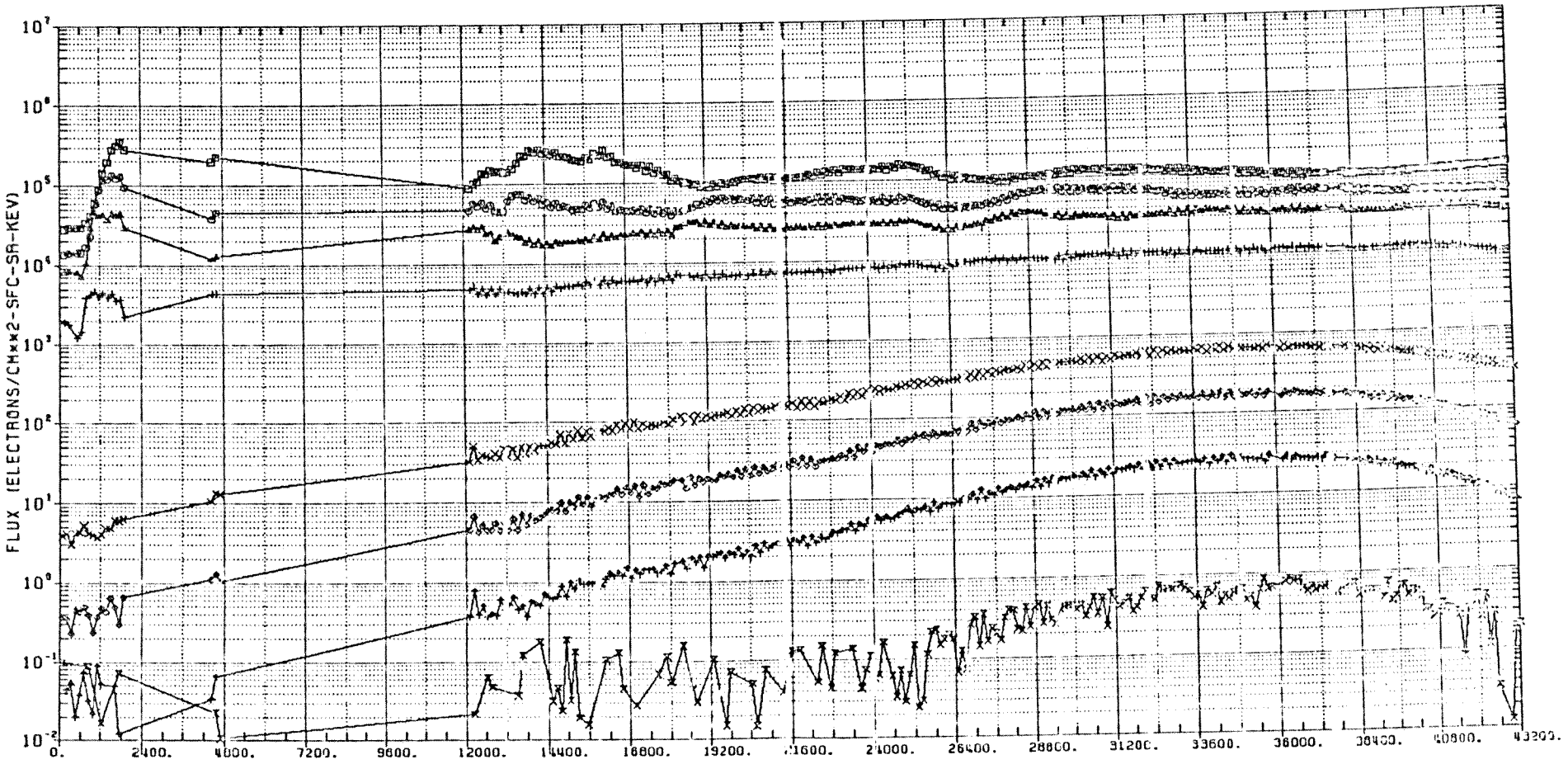
UT(H)	12.00	12.67	13.33	14.00	14.67	15.33	16.00	16.67	17.33	18.00	18.67	19.33	20.00	20.67	21.33	22.00	22.67	23.33	24.00
LT(H)	14.59	15.48	16.42	17.40	18.39	19.38	20.36	21.30	22.20	23.04	23.82	0.55	1.24	1.87	2.47	3.04	3.58	4.09	4.59
MLT(H)	14.56	15.42	16.33	17.29	18.27	19.26	20.23	21.18	22.08	22.94	23.74	0.49	1.17	1.80	2.39	2.93	3.46	3.96	4.46
GLON	40.54	43.96	48.06	52.69	57.60	62.52	67.17	71.29	74.70	77.31	79.09	80.06	80.29	79.84	78.82	77.28	75.36	73.09	70.55
GLAT	5.99	4.68	3.01	1.10	-0.94	-2.91	-4.84	-6.02	-7.00	-7.58	-7.76	-7.66	-7.31	-6.78	-6.10	-5.32	-4.47	-3.57	-2.64
MLAT	1.83	-0.08	-2.43	-5.09	-7.88	-10.57	-12.93	-14.83	-16.21	-17.06	-17.45	-17.44	-17.12	-16.54	-15.77	-14.83	-13.78	-12.62	-11.39
B/B0	1.00	1.00	1.01	1.04	1.11	1.21	1.38	1.60	1.81	1.92	1.98	2.05	2.14	2.17	2.11	1.99	1.72	1.52	1.37
L	5.74	5.63	5.55	5.51	5.55	5.68	5.91	6.20	6.50	6.77	7.03	7.30	7.56	7.79	7.86	8.05	8.08	8.06	8.02
KP/DST	7-/-22	7-/-22	7-/-19	7-/-28	7-/-28	7-/-50	7-/-74	7-/-74	7-/-57	4-/-47	4-/-47	4-/-48	4-/-37	4-/-37	3 /-30	3 /-22	3 /-22	3 /-20	3 /-20

24-NOV-81 10:02:40

SC-3 FORMAT2-C FOR DAY 90, 3/31/79

CHANNEL ASSIGNMENTS

□	: 47-66 KEV	×	: 334-1026 KEV
⊙	: 66-87	◆	: 1026-1419
▲	: 87-129	✦	: 1419-2603
⊥	: 129-299	✕	: 2603-4970



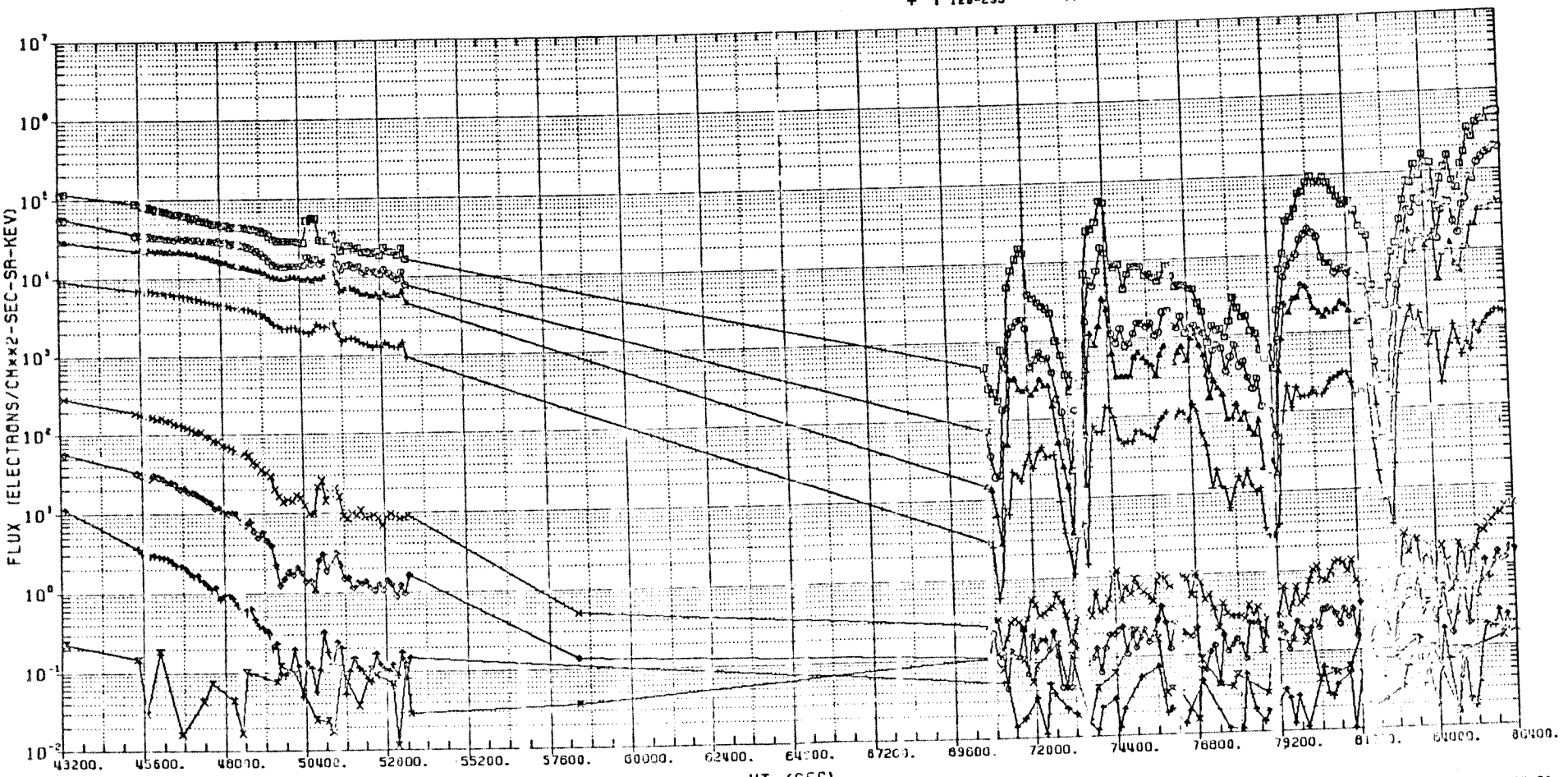
UT(H)	0.00	0.67	1.33	2.00	2.67	3.33	4.00	4.67	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00	10.67	11.33	12.00
LT(H)	6.36	6.84	7.31	7.80	8.31	8.84	9.39	9.97	10.59	11.24	11.95	12.70	13.51	14.37	15.28	16.23	17.22	18.21	19.20
MLT(H)	6.33	6.80	7.27	7.76	8.27	8.81	9.38	9.95	10.57	11.23	11.93	12.68	13.47	14.32	15.21	16.15	17.12	18.11	19.10
GLON	98.58	93.65	90.84	88.20	85.80	83.70	81.97	80.68	79.92	79.77	80.31	81.60	83.70	86.61	90.28	94.59	99.34	104.24	109.13
GLAT	1.93	2.85	3.74	4.59	5.39	6.11	6.74	7.25	7.61	7.78	7.70	7.34	6.83	5.55	4.10	2.33	0.34	-1.00	-3.59
MLAT	-9.06	-8.00	-6.95	-5.92	-4.95	-4.06	-3.28	-2.66	-2.23	-2.0[illegible]	-2.17	-2.66	-3.54	-4.85	-6.55	-8.57	-10.75	-12.91	-14.86
B/B0	1.13	[illegible]	1.07	1.05	1.04	1.03	1.02	1.01	1.01	.[illegible]	1.01	1.01	1.01	1.03	1.05	1.10	1.19	1.29	1.44
L	7.81	[illegible]	7.59	7.44	7.25	7.05	6.85	6.85	6.47	6.30	6.12	5.95	5.78	5.65	5.57	5.54	5.58	5.65	5.82
KP/DST	3 /-28	3 /-28	3 /-20	3 /-28	3 /-28	3+/-34	3+/-38	3+/-38	3+/-32	2-/-30	2-/-30	2-/-34	2-/-33	2-/-33	2-/-26	2-/-22	2-/-22	2-/-20	3 /-24

24-NOV-81 08:55:50

SC-3 FORMAT2-C FOR DAY 90, 3/31/79

CHANNEL ASSIGNMENTS

□	47-66 KEV	×	634-1026 KEV
◇	66-87	◆	1026-1419
△	87-129	↑	1419-2603
+	129-299	⋇	2603-4970



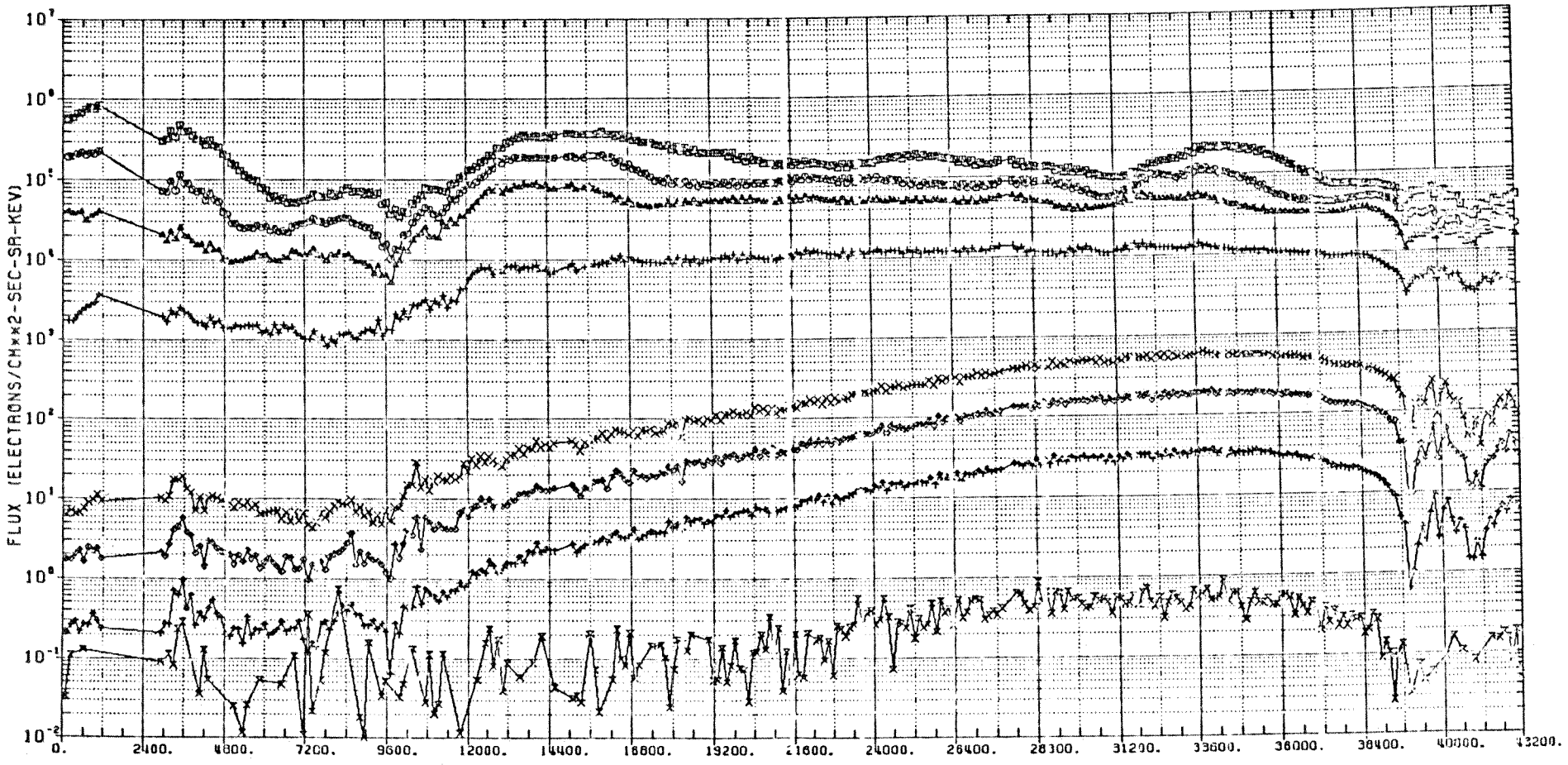
UT(H)	12.00	12.67	13.33	14.00	14.67	15.33	16.00	16.67	17.33	18.00	18.67	19.33	20.00	20.67	21.33	22.00	22.67	23.33	24.00
LT(H)	19.20	20.17	21.09	21.97	22.79	23.55	0.27	0.93	1.56	2.14	2.70	3.23	3.74	4.23	4.71	5.18	5.65	6.11	6.58
MLT(H)	19.10	20.07	21.01	21.89	22.73	23.52	0.28	0.96	1.60	2.20	2.75	3.26	3.77	4.26	4.73	5.19	5.65	6.10	6.56
GLON	109.13	113.60	117.48	120.61	122.92	124.41	125.10	125.08	124.42	123.21	121.53	119.47	117.10	114.48	111.68	108.76	105.77	102.77	99.81
GLAT	-9.59	-5.21	-8.45	-7.27	-7.70	-7.78	-7.57	-7.15	-8.55	-5.83	-5.03	-4.15	-9.23	-2.28	-1.32	-0.98	0.60	1.55	2.40
MLAT	-14.86	-10.44	-17.60	-18.31	-18.63	-18.64	-18.40	-17.97	-17.42	-16.[illegible]	-16.02	-15.23	-14.39	-13.50	-12.58	-11.63	-10.64	-9.64	-8.63
B/B0	1.44	[illegible]	1.92	2.14	2.21	2.19	2.18	2.22	2.25	2.[illegible]	2.09	1.90	1.70	1.52	1.38	1.28	1.20	1.15	1.11
L	5.82	[illegible]	6.39	6.70	6.86	7.18	7.41	7.65	7.88	8.0[illegible]	8.16	8.20	8.19	8.15	8.09	8.01	7.94	7.85	7.70
KP/DST	3 /-24	3 /-24	3 /-22	3 /-25	3 /-25	3+/-33	3+/-41	3+/-41	3+/-47	3+/-38	3+/-38	3+/-36	3+/-35	3+/-35	5+/-39	5+/-35	5+/-35	5+/-40	5+/-40

678

SC-3 FORMAT2-C FOR DAY 91, 4/ 1/79

CHANNEL ASSIGNMENTS

□	: 47-66 KEV	×	: E34-1026 KEV
⊙	: 66-87	◆	: 1026-1419
▲	: 87-129	✦	: 1419-2603
+	: 129-299	✕	: 2603-4970



UT(H)	0.00	0.67	1.33	2.00	2.67	3.33	4.00	4.67	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00	10.67	11.33	12.00
LT(H)	6.58	7.06	7.55	8.05	8.56	9.10	9.67	10.27	10.91	11.60	12.33	13.11	13.95	14.84	15.78	16.76	17.75	18.74	19.72
MLT(H)	6.58	7.03	7.51	8.01	8.53	9.07	9.65	10.25	10.89	11.58	12.31	13.08	13.91	14.79	15.71	16.68	17.68	18.68	19.64
GLON	99.81	96.95	94.23	91.72	89.49	87.60	86.12	85.14	84.73	84.98	85.96	87.79	90.32	93.39	97.78	102.36	107.20	112.10	116.84
GLAT	2.49	3.39	4.28	5.07	5.83	6.50	7.08	7.49	7.74	7.78	7.52	6.98	6.03	4.73	3.08	1.18	-0.87	-2.85	-4.60
MLAT	-8.63	-7.[illegible]	-6.63	-5.67	-4.78	-3.98	-3.31	-2.81	-2.53	-2.5[illegible]	-2.84	-3.53	-4.63	-6.13	-7.96	-10.05	-12.13	-14.10	-15.77
B/B0	1.11	1.[illegible]	1.08	1.04	1.03	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.02	1.04	1.08	1.15	1.25	1.38	1.55
L	7.78	7.[illegible]	7.51	7.94	7.14	6.84	6.73	6.54	6.38	6.19	6.01	5.84	5.69	5.59	5.55	5.55	5.61	5.74	5.98
KP/DST	4+/-48	4+/-48	4+/-54	4+/-47	4+/-47	5-/-53	5-/-44	5-/-44	5-/-38	3 /-31	3 /-31	3 /-38	3 /-34	3 /-34	4 /-38	4 /-44	4 /-44	4 /-44	4+/-40

24-NOV-81 11:34:39

D-47132

```
$NOP ************  ASCII LIST OF X-395  *************
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=1 3

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   2160
*         LOCKHEED PALO ALTO RESEARCH LABORATORY SCATHA SC3 EXPERIMENT          **
                                                          **                              DAY  81   =
    3/22/79                                  **
                      **  THE FOLLOWING RECORDS CONTAIN 64 SEC AVERAGES OF DIFFERENTIAL ELECTRON
   **     FLUX FOR 1 DAY OF SC-3 DATA.                                                    **  UT = CENTER
UT FOR 64 SECOND AVERAGE                                                **  SD = SECONDS OF ELECTRON DATA I
N AVERAGE (NORMALLY 64 SECONDS)                  **  THE REST OF COLUMN HEADINGS ARE ENERGY BOUNDS IN K
EV FOR EACH CHANNEL          **  DATA FORMAT = I2,I6,1P8E9.2
       **  EACH CHANNEL IS DIFFERENTIAL ELECTRON FLUX IN UNITS OF                                  **        ELE
CTRONS/(CM**2-SEC-STER-KEV).                                                **  THE RECORDS ARE WRITTEN IN
ASCII CODE, 80 CHARACTERS PER LINE IMAGE AND 27  **        LINES PER RECORD, TOTALING 2160 CHARACTER
S (8-BIT-BYTES) PER RECORD.    **  EACH DAY OF DATA IS WRITTEN AS ONE FILE, ONE TAPE MARK SIGNIFYING
 THE        **        END-OF-FILE.  THE LAST RECORD IS COMPLETED WITH ZEROES.                    **  THE
END-OF DATA IS MARKED BY AT LEAST TWO TAPE MARKS.                          **
                                                          **  COLUMN NUMBERING
                                        **        10         20         30         40         50         60
    70         80*         !          !          !          !          !          !          !          **23
4567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789**  ASCII CHARACTER TES
T PATTERN
@ABCDEFGHIJKLMNOPQRSTUVWXYZ                **                                    **          !"#$%&'()*+,-./0123456789:;,=.?
                    *SD  UT  47-66 KEV  66-87   87-129 129-299 634-1026 1026-1419 1419-2603 2603-497
0*                                                                                          *

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   2160
*         LOCKHEED PALO ALTO RESEARCH LABORATORY SCATHA SC3 EXPERIMENT          **
                                                          **                              DAY  90   =
    3/31/79                                  **
                      **  THE FOLLOWING RECORDS CONTAIN 64 SEC AVERAGES OF DIFFERENTIAL ELECTRON
   **     FLUX FOR 1 DAY OF SC-3 DATA.                                                    **  UT = CENTER
UT FOR 64 SECOND AVERAGE                                                **  SD = SECONDS OF ELECTRON DATA I
N AVERAGE (NORMALLY 64 SECONDS)                  **  THE REST OF COLUMN HEADINGS ARE ENERGY BOUNDS IN K
EV FOR EACH CHANNEL          **  DATA FORMAT = I2,I6,1P8E9.2
       **  EACH CHANNEL IS DIFFERENTIAL ELECTRON FLUX IN UNITS OF                                  **        ELE
CTRONS/(CM**2-SEC-STER-KEV).                                                **  THE RECORDS ARE WRITTEN IN
ASCII CODE, 80 CHARACTERS PER LINE IMAGE AND 27  **        LINES PER RECORD, TOTALING 2160 CHARACTER
S (8-BIT-BYTES) PER RECORD.    **  EACH DAY OF DATA IS WRITTEN AS ONE FILE, ONE TAPE MARK SIGNIFYING
 THE        **        END-OF-FILE.  THE LAST RECORD IS COMPLETED WITH ZEROES.                    **  THE
END-OF DATA IS MARKED BY AT LEAST TWO TAPE MARKS.                          **
                                                          **  COLUMN NUMBERING
                                        **        10         20         30         40         50         60
    70         80*         !          !          !          !          !          !          !          **23
4567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789**  ASCII CHARACTER TES
T PATTERN
@ABCDEFGHIJKLMNOPQRSTUVWXYZ                **                                    **          !"#$%&'()*+,-./0123456789:;,=.?
                    *SD  UT  47-66 KEV  66-87   87-129 129-299 634-1026 1026-1419 1419-2603 2603-497
0*                                                                                          *

 TAPE NO.   1              FILE NO.   3
 RECORD   1                LENGTH   2160
*         LOCKHEED PALO ALTO RESEARCH LABORATORY SCATHA SC3 EXPERIMENT          **
                                                          **                              DAY  91   =
    4/ 1/79                                  **
                      **  THE FOLLOWING RECORDS CONTAIN 64 SEC AVERAGES OF DIFFERENTIAL ELECTRON
   **     FLUX FOR 1 DAY OF SC-3 DATA.                                                    **  UT = CENTER
UT FOR 64 SECOND AVERAGE                                                **  SD = SECONDS OF ELECTRON DATA I
N AVERAGE (NORMALLY 64 SECONDS)                  **  THE REST OF COLUMN HEADINGS ARE ENERGY BOUNDS IN K
```

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

STP P78-2

SC2-3 PLASMA DATA
79-007A-06A

B-FIELD AVERAGE 1 MINUTE DATA
79-007A-08A

ENERGETIC PROTON FLUXES 1-MINUTE AVERAGE DATA
79-007A-14A

THESE DATA SETS ARE CONTAINED ON ONE MAGNETIC TAPE. THE TAPE IS 9 TRACK, 6250 BPI, WRITTEN IN ASCII AND CONTAINS 20 FILES OF DATA. THE TAPE WAS CREATED ON A CYBER 176 COMPUTER. THE D AND C NUMBERS AND THE TIME INTERVALS ARE AS FOLLOWS:

D#	C#	TIME INTERVALS
D-73801	C-26044	FILES 6-10 01/28/83 - 06/28/83 (14A)
		FILES 11-15 01/28/83 - 06/28/83 (06A)
		FILES 16-20 01/28/83 - 06/28/83 (08A)

* FILES 1-5 CONTAIN EPHEMERIS DATA, TIME INTERVALS 01/28/83 - 06/28/83.

DATE: 5/21/86

? NSSDC ID: 79-0074-~~[illegible]~~14A

P.I.: FENNELL/BLAKE/FRITZ

CDAW DATA SET ENTRY

DATE RECEIVED: 5/16/86

DATA SENT BY: Dr. Joseph Fennell (Aerospace)

PARTICIPANT: _____

MATERIAL RECEIVED: Intro letter (2), Quest., plot pkg, tape dump, CDB Doc, ephemeris data file info, energetic data file info, plasma data file info, mod/data info, B field data file info, SCATHA SC2 Plasma Inst. Para, SC2 Energetic ION Expt.

SATELLITE/NSDF NAME: 1-9trk, 6250, ASCII tape

CDAW DATA SET MNEMONIC: _____

CDAW DATA SET NAME: SCATHA SC2-6

AIM FILE DATA SET NAME: _____

~~CDAW NEW DATA SET~~ ADDITIONS REPLACEMENTS

~~AIM FILE NEW DATA SET~~ ADDITIONS REPLACEMENTS

COMMENTS: Copied plots & tape dump in SC2 folder

TIME COVERAGE: See attached

TAPES TO BE RETURNED TO: _____

RECEIVED BY: Leah Interrante

DATE: 5/21/86

? NSSDC ID: 79-0074-06A

P.I.: FENNELL

CDAW DATA SET ENTRY

DATE RECEIVED: 5/16/86

DATA SENT BY: Dr. Joseph Fennell (Aerospace)

PARTICIPANT: _____

MATERIAL RECEIVED: Intro letters (2), Questionnaire, plot pkg, tape dump, CDB Doc, ephemeris data file info, energetic data file info, plasma data file info, Word/data for. B field data file info, SCATHA SC2 Plasma inst. Para, SCATHA SC2, Energetic ION experiment info, 1 - 9trk 625 BPI, ASCII tape

SATELLITE/NSDF NAME: _____

? CDAW DATA SET MNEMONIC: SC06

CDAW DATA SET NAME: SCATHA SC2

AIM FILE DATA SET NAME: _____

? CDAW NEW DATA SET (ADDITIONS) REPLACEMENTS

AIM FILE NEW DATA SET (ADDITIONS) REPLACEMENTS

COMMENTS: Original plot pkg, tape dump will be in folder.

TIME COVERAGE: See attached

TAPES TO BE RETURNED TO: _____

RECEIVED BY: Leah Saterwal

DATE: 5/21/86

NSSDC ID: 79-007A-08A

P.I.: LEDLEY

CDAW DATA SET ENTRY

DATE RECEIVED: 5/16/86

DATA SENT BY: Dr. Joseph Fennell (Aerospace)

PARTICIPANT:

MATERIAL RECEIVED: Intro letter (2) Quest. plot, dump, CDB doc, ephemeris data, energetic data, plasma data, word/data, B field data, SCATHA SC2 Plasma Inst. Para, SC2 Energetic ION Spat. 1 - 9Trk, 6250, ASCII tape

SATELLITE/NSDF NAME:

CDAW DATA SET MNEMONIC: SC08

CDAW DATA SET NAME: SC-11 B field Averages - ~~Data~~. 16 Sec.

AIM FILE DATA SET NAME:

CDAW NEW DATA SET (ADDITIONS) REPLACEMENTS

AIM FILE NEW DATA SET (ADDITIONS) REPLACEMENTS

COMMENTS: Original plot & tape dump in SC2 folder.

TIME COVERAGE: See attached

TAPES TO BE RETURNED TO:

RECEIVED BY: Lyda Sutwood

National Aeronautics and Space Administration

CDB TAPE DOCUMENTATION FORM

SECTION I. DATA SET DESCRIPTION (Please print.)

1. Spacecraft/Ground Station(s)	2. Experiment Name	3. Data Set Name
SCATHA (P78-2)	SC2 and SC11	Plasma, Energetic ions and magnetic field
4. Scientific Contact	**5. Telephone/Telex No.**	**6. SPAN/TELENET Address**
J.F. Fennell	~~2138470~~ 2136437075 / 66-4460	none yet
7. Address	The Aerospace Corp. M5:M2-259, P.O. Box 92957	
8. City	**9. State**	**10. Zip Code or Country**
Los Angeles	CA	90009
11. Programmer Contact	**12. Telephone/Telex No.**	**13. SPAN/TELENET Address**
Arlene Kishi	213 6485614 / 66-4460	none yet

SECTION II. TAPE DESCRIPTION

1. External Physical Label
C-8412 The Aerospace Corp

2. No. of Tapes Submitted
1

3. Tape Density ☐ 800 bpi ☐ 1600 bpi ☑ 6250 bpi

4. No. of Files (per tape)
20

5. No. of File Marks Between Files
1

6. After Last File?
2

7. No. of Tracks ☐ 7 ☑ 9

8. Recording Parity
Odd

9. Make and Model of Computer Used to Generate Tape
Cyber 176

10. Tapes are written in:
☐ binary ☑ ASCII ☐ EBCDIC
Combination as shown ☐ Other; Specify _____

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

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

13. No. of Physical Records (per file)

Files 1-5: 5	File 7: 6	File 9: 4	File 11: 11	File 13: 9	File 15: 5	File 18: 3
File 6: 5	File 8: 4	File 10: 2	File 12: 14	File 14: 8	File 16: 3	File 19: 2
					File 17: 4	File 20: 2

14. Are original tapes to be returned? ☐ Yes ☒ No

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

See attached sheets

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

SECTION IV. TO BE FILLED IN BY NSSDC ONLY

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

THE AEROSPACE CORPORATION

Post Office Box 92957, Los Angeles, California 90009, Telephone: (213) 648-5000

March 24, 1986

Ms. Leah Gatewood
CDAW 8
Code 663
NASA Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Ms. Gatewood:

I can provide the data noted in the questionaire for the SCATHA satellite. I can easily provide plots, which are already available, of the plasma and energetic proton data at one minute intervals and the magnetic field data at sixteen second intervals. These plots are all scaled as six hours of data per frame with several intensity levels stacked on each frame. The SCATHA plots are on a common time base of 6 hours equals 18.3 cm. It may also be possible to provide some of the SCATHA wave data in the form of plots. Only a few digital channels of wave data are available.

As you will note from the questionaire, we are scheduled to be connected to SPAN some time this summer. No firm date has been set yet but we expect to be on span by June. We are in the process of switching much of our data processing from a CDC CYBER 176 to a VAX 11/785. This may cause our data formats to change and I cannot say exactly what they will be at this time. If you have any questions, please feel free to call me at (213) 648-7075.

Regards,

Joseph F. Fennell

COORDINATED DATA BASE 8 (CDB-8) QUESTIONNAIRE

(PLEASE RETURN BY MARCH 10, 1986)

NAME: J. F. Fennell TELEPHONE: 3/20/86

ADDRESS: The Aerospace Corp. MS: M2-259
P.O. Box 92957
Los Angeles, CA 90009

TELEX (Carrier, Number, Answer Back): 66-4460

TELENET ADDRESS: None

SPAN ADDRESS (Node Name::Account Name): None Yet (maybe by June)

TELEMAIL: None

1. I wish to participate: Yes X No ___

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

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

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

4. It is highly desirable for NSSDC to receive data by March 24. Please note that NSSDC will assist in averaging, coordinate transformations, etc; the important step is to send the data with documentation now. I can send my data to NSSDC by April 30 (date). The data will be submitted on tape X, or electronically using the ___ network.

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

Event	Time Interval	I will supply data for the time interval:
A	28 Jan. 1983 0400-1100 UT	Bfield – whole interval (B) Plasma – whole interval (PL) Energetic Protons (EP) – whole interval
B	25 Mar. 1983 0500-1400 UT	B – whole interval PL – " " EP " "
C	26 Mar. 1983 0000-0600 UT	B – whole interval PL – " " EP " "
D	29 Jan. 1983 0500-1400 UT	Bfield 0500 – 1000 UT Plasma – 0500 – 1000 UT Energetic Protons – 0900 – 1000 UT
E	4 June 1983 0500-1000 UT	Data not available yet – processing date unknown
F	27-28 June 1983 1500-0300 UT	B 0000-0300 28 June PL " " " EP – unknown – } 27 June not available

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

IDENTIFICATION Spacecraft/ Ground Station	EXPERIMENT IDENTIFICATION	PRINCIPAL INVESTIGATOR	NO. OF PARAMEMETERS FOR CDB	TOTAL DATA POINTS FOR CDB	Used Previously in CDAW No. 6 (is format identical?)
SCATHR	SC2	Fennell,	28-40 (avg ~28)	~30x2x60/hr	Probably but not certain
SCATHA	SC2-6	Fennell/Blake/Fitz	30	30x60/hr	Probably
SCATHA	SC11	Ledley	10	10x240/hr	?

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

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

✓ I want my data set(s) to be loaded without any averaging; if so, my basic time resolution is 16 sec to ~1 minute (16 sec for SC11, ~1 min for others)

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

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

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

_____

_____

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

Remote access via: SPAN ✓ maybe in June TELENET ____ Modem ____ Other None

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

Tek 4014 emulation on Pericom and HDS terminals

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

PC PLOT, Tekalike

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

IDL

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

IDL

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

PLEASE RETURN THIS QUESTIONNAIRE TO:

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

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

Data is provided for the following:

Day	Times	
5028	4-11 UT	Jan. 28, 1983
5084	5-14 UT	Mar. 25, 1983
5085	0-6 UT	Mar. 26, 1983
5029	5-10 UT	Jan. 29, 1983
5179	0-3 UT	June 28, 1983

There are 20 files on C8412 with blocksize=30720 characters.

File	Data
1	Ephemeris day 5028
2	Ephemeris day 5084
3	Ephemeris day 5085
4	Ephemeris day 5029
5	Ephemeris day 5179
6	Energetic protons day 5028
7	Energetic protons day 5084
8	Energetic protons day 5085
9	Energetic protons day 5029
10	Energetic protons day 5179
11	Plasma day 5028
12	Plasma day 5084
13	Plasma day 5085
14	Plasma day 5029
15	Plasma day 5179
16	Bfield day 5028
17	Bfield day 5084
18	Bfield day 5085
19	Bfield day 5029
20	Bfield day 5179

Ephemeris data files (1024 characters/record, 30 records/block):

(DATA(i), i=1,70)
FORMAT (F15.2,F11.2,2F10.2,3F11.2,63F15.2)

Word	Data
1	Julian Date
2	UT (seconds)
3	Right Ascension of Greenwich (radians)
4	Rev Number
5	$\vec{X}$, Satellite Position, ECI (km)
6	" " " "
7	" " " "
8	$\vec{V}$, Satellite Velocity, ECI (km/sec)
9	" " " "
10	" " " "
11	$\vec{S}$, Sun Position, ECI (km)
12	" "
13	" "
14	$\vec{M}$, Moon Position, ECI (km)
15	" "
16	" "
17	Radius (km)
18	Altitude (km)
19	Latitude (deg)
20	Longitude (deg)
21	Right Ascension (deg)
22	Velocity (km/sec)
23	Solar Zenith Angle (deg)
24	Shadow Angle (deg)
25	Radius, MAG (ER) (3)
26	Latitude, MAG (deg)
27	Longitude, MAG (deg)
28	Radius, SM (ER) (4)
29	Latitude, SM (deg)
30	Local Time, SM (hr)
31	Radius, GSM (ER) (5)
32	Latitude, GSM (deg)
33	Local Time, GSM (hr)
34	B, (gamma)
35	L, (ER)
36	Dipole Radius, R (ER)
37	Dipole Latitude, λ (deg)
38	Invariant Latitude, Λ (deg)
39	Local Time (hr)
40	Magnetic Time (hr) (6)
41	B, (gamma), of 100-km North Intercept
42	Latitude (deg)
43	Longitude (deg)
44	B, (gamma), of 100-km South Intercept
45	Latitude (deg)

Ignore all entries except "✓" words, for CDF

Word	Data
46	Longitude (deg)
47	B, (gamma), of Equator (minimum B)
48	Radius (ER)
49	Latitude (deg)
50	Longitude (deg)
51	Radius (ER), of mirror point
52	Latitude (deg)
53	Longitude (deg)
54	$\vec{B}$, (total), ECI (gamma)
55	" " "
56	" " "
57	$\vec{B}$, (main field), ECI (gamma)
58	" " " "
59	" " " "
60	$\vec{V}_D$, Differential Velocity, ECI (km/sec)
61	" " " "
62	" " " "
63	Differential Velocity, ECI (km/sec)
64	$\vec{M}$, Dipole Moment, ECI (gamma)
65	" " "
66	" " "
67	$\vec{D}$, Dipole Displacement, ECI (km)
68	" " "
69	" " "
70	Tilt Angle (deg)

Plasma data files (768 characters/record, 40 records/block):

TIME,(DATA(i), i=1,76)
FORMAT(F14.7,6F9.2,70F10.2)

TIME = Day number + Fraction of day

Word	Data		
1	E_e(ev)	17	All pitch angles GE 70 and LE 110
2		40	
3		87	
4		187	
5		316	
6		446	
7		612	
8		815	
9		1090	
10		1440	
11		1940	
12		2580	
13		3410	
14		4520	
15		5900	
16		8200	
17		10950	
18		14400	
19		19400	
20	E_e(ev)	17	All pitch angles LE 30 or GE 150
21		40	
22		87	
23		187	
24		316	
25		446	
26		612	
27		815	
28		1090	
29		1440	
30		1940	
31		2580	
32		3410	
33		4520	
34		5900	
35		8200	
36		10950	
37		14400	
38		19400	
39	E_i(ev/q)	18	All pitch angles GE 70 and LE 110
40		37	
41		74	
42		154	
43		255	
44		360	
45		490	
46		655	

counts/sec

See back page

Word	Data		
47	E_i(ev/q)	880	
48		1165	
49		1550	
50		2060	
51		2700	
52		3600	All pitch angles GE 70 and LE 110
53		4800	
54		6650	
55		8800	
56		11600	
57		15600	
58	E_i(ev/q)	18	
59		37	
60		74	
61		154	
62		255	
63		360	
64		490	
65		655	
66		880	
67		1165	All pitch angles LE 30 or GE 150
68		1550	
69		2060	
70		2700	
71		3600	
72		4800	
73		6650	
74		8800	
75		11600	
76		15600	

Counts/sec

Energetic proton data files (320 characters/record, 96 records/block):

TIME,(DATA(i), i=1,30)
FORMAT(F14.7,2(8F11.2,2F9.2,2F11.2,2F8.2,F9.2))

TIME = Day number + Fraction of day

Word	Data	
1	17-29 kev	All pitch angles GE 80 and LE 100
2	29-54 kev	
3	54-104 kev	
4	104-189 kev	
5	189-363 kev	
6	363-717 kev	
7	GT 717 kev	
8	GT 3.3 mev	
9	ALPHA1	
10	ALPHA2	
11	P1S	
12	P2S	
13	CNO1	
14	GT CNO	
15	2B	
16	17-29 kev	All pitch angles LT 20 or GT 160
17	29-54 kev	
18	54-104 kev	
19	104-189 kev	
20	189-363 kev	
21	363-717 kev	
22	GT 717 kev	
23	GT 3.3 mev	
24	ALPHA1	
25	ALPHA2	
26	P1S	
27	P2S	
28	CNO1	
29	GT CNO	
30	2B	

Bfield data files (48 characters/record, 640 records/block):

TIME,(DATA(i), i=1,4)
FORMAT (F15.7,3F8.2,F9.2)

TIME = Day number + Fraction of day

Word	Data
1	Measured B
2	Measured B^x
3	Measured B^y_z
4	B

VDH coordinates (Z earth spin axis, Y eastward, X Z-R plane)

Unit: nanotesla

z: vertical
x: Northward
y: Eastward

Go back one

SCATHA SC2 Plasma Instrument Parameters

Electrons		Ions	
Energy (ev)	Multiplicative Constant for flux conversion	Energy (ev)	Multiplicative Constant for flux conversion
17	730.0	18	90.0
40	241.0	37	43.0
87	169.0	74	21.4
187	66.0	154	10.3
316	48.75	255	6.20
446	40.6	360	4.40
612	33.60	490	3.20
1090	15.40	880	1.80
1440	13.00	1165	1.40
1940	10.25	1550	1.02
2580	8.28	2060	0.77
3410	6.96	2700	0.59
4520	5.71	3600	0.44
5900	4.55	4800	0.33
8200	3.76	6650	0.24
10950	3.73	8800	0.18
14400	3.06	11600	0.14
19400	2.46	15600	0.10

SCATHA SC2 Energetic Ion Experiment

Channel ID or Energy	Geometric Factor (cm^2 ster)	
17 -29 keV	$2x10^{-3}$	
29 -54 keV	"	
54 -104 keV	"	
104 -189 keV	"	
189 -363 keV	"	
363 -717 keV	"	
>717 keV	"	
>3.3 MeV	"	
Alpha1 >392 keV	$3.6x10^{-4}$	
Alpha2 >549 keV	"	
P1S E_p >125 keV	"	Singles channel
P1S E_p>390 keV	"	Singles channel
CNO1 E_{CNO} 392 to 960 keV	"	CNO group
GT CNO E_{MG}>5.4 MeV	"	Heavy ions
2B(background)	"	

D-73801

```
$NOP
$ASS IN HTO
$NOP ******** GAILOUT2 *********
$EXE TPLIST BS

INPUT PARAMETERS ARE:  AS SR=1=2 20 1 1

 TAPE NO.   1              FILE NO.   1
 RECORD   1                LENGTH   30720
      2445362.50        0.00      77.61    1481.34    45034.95    -8681.50     3211.66              .09
       2.79             -.16    89657099.91  -107246608.21   -46501864.62     -146217.73       294367.9
9      139903.08       45976.41       39598.35          4.01         222.40          4669.09
   2.79          44.64          127.38          7.22          8.36          292.21          7.20
      8.24          302.32          7.20          25.25          302.57          91.42
6.97          6.95          3.44          67.74          302.61          302.32          57400.86
     61.45          239.92          61172.90          -64.75          185.22          90.10          7.2
8          .44          221.79          7.29          -3.26          221.12          -21.01
   19.28          86.86          -24.80          20.37          77.81          -.54          -.50
         -.16          .75          3335.10          4899.05          29888.03          33.85          -45
6.00          182.89          -21.10          2445362.50          600.00          77.65          1481.35          45056.77          -7003
.30          3115.07          -.02          2.81          -.16          89671565.79          -107236571.19          -464975
11.84          -146814.95          294090.77          139843.98          45704.08          39326.01          3.91
     221.97          4671.17          2.81          46.36          125.61          7.17          8.
19          291.80          7.15          8.07          302.45          7.15          24.96
   302.73          92.26          6.95          6.92          3.43          67.71          302.75
      302.46          57355.81          61.43          239.53          61163.93          -64.58          1
85.05          90.91          7.24          .36          221.36          7.24          -3.32
     220.69          -21.61          18.66          87.73          -25.33          19.77          79.
34          -.53          -.48          -.16          .73          3117.63          5040.23
29888.03          53.77          -454.08          182.89          -21.58          2445362.50          1200.00
77.70    1481.35    45010.87    -5314.58     3013.79          -.13          2.82          -.17     89
686030.33   -107226532.57    -46493158.36     -147411.71       293812.61       139784.45       45423.63
      39045.56          3.80          221.57          4673.27          2.83          48.13
123.79          7.13          8.01          291.42          7.11          7.89          302.60
         7.11          24.61          302.88          93.13          6.93          6.90          3
.44          67.67          302.89          302.60          57311.80          61.40          239.16
   61151.83          -64.40          184.91          91.74          7.19          .27          220.95
         7.20          -3.39          220.28          -22.21          18.03          88.63
-25.84          19.15          80.95          -.52          -.46          -.17          .72
      2894.19          5171.77          29888.03          73.58          -451.30          182.89          -22
.04     2445362.50     1800.00      77.74    1481.36    44896.05    -3617.74     2907.90          -.25
          2.83          -.18     89700493.54  -107216492.36   -46488804.19     -148008.00       29353
3.52       139724.47       45135.35       38757.27          3.69         221.19          4675.39
      2.85          49.93          121.93          7.08          7.83          291.06          7.0
6          7.72          302.74          7.06          24.19          303.04          94.02
   6.91          6.88          3.45          67.63          303.03          302.74          57268.98
         61.37          238.81          61136.42          -64.23          184.79          92.57
7.14          .16          220.57          7.15          -3.48          219.90          -22.79
      17.37          89.54          -26.34          18.52          82.65          -.51          -.4
4          -.18          .70          2665.22          5293.41          29888.03          93.25
-447.65          182.89          -22.50          2445362.50          2400.00          77.78          1481.37          44711.17          -1
915.26          2797.47          -.37          2.84          -.19          89714955.42          -107206450.56          -464
84449.34          -148603.83          293253.50          139664.05          44839.53          38461.44          3.58
      220.83          4677.55          2.87          51.78          120.03          7.04
   7.65          29.73          7.02          7.54          302.89          7.02          23.71
      303.20          94.93          6.88          6.86          3.47          67.60          303.
17          302.89          57227.55          61.32          238.48          61117.71          -64.05
   184.69          93.43          7.10          .05          220.21          7.10          -3.59
         219.54          -23.36          16.69          90.48          -26.81          17.88
84.44          -.51          -.42          -.19          .68          2431.14          5404.92
      29888.03          112.74          -443.14          182.89          -22.95          2445362.50          3000.00
      77.83    1481.37    44455.13    -209.75     2682.59          -.49          2.84          -.20
   89729415.96   -107196407.17    -46480093.80     -149199.19       292972.56       139603.18       44536
.49       38158.40          3.45          220.51          4679.73          2.89          53.67
```

EPHEMERIS DATA

FILES 1-5

4 4580.52 2.73 149.41 22.79 7.37 14.23
355.67 7.42 13.99 311.00 7.42 25.86 310.92
82.87 8.44 7.51 19.39 69.87 310.94 31
1.04 57987.66 55.27 281.06 54343.77 -79.91 248.38
36.23 8.51 -13.07 285.28 7.31 -28.32 285.1
8 8.13 59.16 57.46 7.17 40.58 70.35
-.77 -.26 .18 .84 -544.74 -5896.10 29876.94
-250.80 383.01 184.06 12.32 2445513.50 15000.00 75.02 16
35.12 -6155.08 -46692.60 2606.87 2.61 -.71 .18 -15674332.25
138784402.92 60176376.47 243178.86 -286796.31 -151514.61 47168.63 407
90.53 3.17 284.30 4582.49 2.71 150.23 22.01
7.40 14.34 355.12 7.45 14.10 311.12 7.
45 25.99 311.05 82.24 8.49 7.54 19.61
69.93 311.07 311.16 58023.84 55.32 280.76 54476.01
-79.81 247.11 35.39 8.58 -13.10 284.66
7.35 -28.47 284.50 6.42 59.28 56.64 5.90
40.62 69.22 -.79 -.26 .18 .85 -286.
33 -5914.28 29876.94 -267.31 371.68 184.06 12.23 24
45513.50 15600.00 75.06 1635.13 -4583.47 -47087.96 2710.97 2.63 -
.61 .17 -15691813.14 138782776.07 60175670.54 243644.62 -286461.13 -
151412.94 47388.11 41010.02 3.28 283.75 4584.44 2.70
150.95 21.33 7.44 14.44 354.54 7.49
14.20 311.24 7.49 26.12 311.18 81.65 8.54
7.56 19.80 69.99 311.20 311.27 58060.23 55
.37 280.45 54612.31 -79.71 245.82 34.59 8.64
-13.13 284.01 7.38 -28.61 283.79 4.72 59.35
55.87 4.65 40.61 68.16 -.81 -.27
.17 .87 -27.37 -5921.15 29876.94 -283.31 359.63
184.06 12.17 2445513.50 16200.00 75.10 1635.13 -3005.67 -47419.82
2811.41 2.63 -.50 .16 -15709293.83 138781147.34 60174963.79
244109.85 -286125.33 -151310.93 47598.08 41219.99 3.39 28
3.17 4586.37 2.69 151.55 20.76 7.47 14.54
353.95 7.52 14.30 311.36 7.52 26.24 311.3
1 81.09 8.59 7.59 19.97 70.05 311.33
311.39 58096.72 55.42 280.13 54749.39 -79.59 244.52
33.84 8.71 -13.16 283.34 7.41 -28.73 28
3.05 3.05 59.38 55.14 3.41 40.57 67.16
-.82 -.28 .16 .89 231.64 -5916.68 29876.9
4 -298.77 346.89 184.06 12.13 2445513.50 16800.00 75.15
1635.14 -1423.87 -47688.59 2908.11 2.64 -.40 .16 -15726774.
32 138779516.74 60174256.22 244574.54 -285788.92 -151208.60 47798.39
41420.30 3.49 282.58 4588.29 2.67 152.04 20.30
7.50 14.63 353.34 7.55 14.39 311.48
7.55 26.37 311.43 80.56 8.63 7.61 20.14
70.10 311.45 311.50 58133.17 55.46 279.80 54885.
93 -79.46 243.24 33.13 8.77 -13.19 282.65
7.44 -28.85 282.29 1.41 59.36 54.44 2.20
40.49 66.22 -.84 -.29 .16 .90 4
90.20 -5900.89 29876.94 -313.66 333.49 184.06 12.10
2445513.50 17400.00 75.19 1635.14 159.81 -47894.69 3000.99 2.64
-.29 .15 -15744254.59 138777884.26 60173547.85 245038.69 -285451.89
-151105.95 47988.88 41610.80 3.59 281.98 4590.19 2
.66 152.42 19.96 7.53 14.71 352.71 7.58
14.48 311.59 7.58 26.50 311.56 80.05 8.67
7.63 20.30 70.15 311.58 311.61 58169.47
55.50 279.46 55022.29 -79.33 241.98 32.45 8.83
-13.22 281.94 7.47 -28.95 281.51 -.22 59
.30 53.78 1.01 40.38 65.34 -.85 -.30
.15 .92 747.83 -5873.80 29876.94 -327.94 319.46
184.06 12.10

TAPE NO. 1 FILE NO. 5
RECORD 2 LENGTH 30720
2445513.50 18000.00 75.24 1635.15 1743.29 -48038.61 3089.97 2.64

7.85 27.80 258.17 -34.98 45.92 46.27 -24.48
30.20 60.10 -.79 -.63 -.04 1.02 5645.
09 -1787.08 29876.94 -427.62 -163.54 184.06 18.34 24
45513.50 33600.00 76.37 1635.28 36921.18 -32203.93 3876.52 1.57 2
.05 -.05 -16216142.89 138733097.58 60154114.27 257365.00 -276122.77 -
148211.80 49145.64 42767.61 4.52 263.01 4638.90 2.59
130.29 42.25 7.71 14.57 333.12 7.74
14.38 314.53 7.74 28.75 314.85 75.50 8.89
7.79 20.64 70.41 314.82 314.40 58858.04 56
.13 268.96 58088.48 -73.72 216.61 28.26 9.08
-12.15 259.53 7.64 -27.47 257.41 -35.97 44.95
48.86 -25.28 29.57 60.52 -.78 -.64
-.05 1.01 5717.86 -1538.46 29876.94 -420.05 -182.09
184.06 18.78 2445513.50 34200.00 76.42 1635.28 37840.07 -30951.89
3844.63 1.49 2.12 -.06 -16233617.27 138731412.54 60153383.12
257813.77 -275768.85 -148100.10 49037.45 42659.41 4.50 26
2.31 4640.72 2.59 128.84 43.68 7.70 14.48
332.41 7.72 14.29 314.64 7.72 28.61 314.9
8 75.83 8.85 7.77 20.40 70.35 314.94
314.51 58868.78 56.16 268.57 58155.40 -73.53 216.08
29.21 9.01 -12.04 258.82 7.62 -27.26 25
6.68 -36.95 43.94 49.54 -26.10 28.93 60.98
-.76 -.64 -.06 1.00 5779.67 -1286.90 29876.9
4 -411.69 -200.28 184.06 19.22 2445513.50 34800.00 76.46
1635.29 38712.91 -29662.18 3808.06 1.42 2.18 -.06 -16251091.
44 138729725.61 60152651.16 258261.98 -275414.35 -147988.09 48918.66
42540.63 4.46 261.63 4642.54 2.60 127.37 45.14
7.68 14.38 331.71 7.71 14.20 314.75
7.71 28.43 315.11 76.22 8.79 7.75 20.14
70.29 315.06 314.62 58878.45 56.19 268.19 58217.
75 -73.34 215.57 30.30 8.94 -11.91 258.13
7.60 -27.04 255.98 -37.90 42.90 50.32 -26.92
28.27 61.50 -.75 -.64 -.06 .99 58
30.43 -1032.87 29876.94 -402.53 -218.10 184.06 19.67
2445513.50 35400.00 76.51 1635.29 39538.30 -28336.12 3766.82 1.34
2.24 -.07 -16268565.39 138728036.81 60151918.39 258709.62 -275059.25
-147875.76 48789.36 42411.32 4.43 260.95 4644.37 2
.61 125.87 46.61 7.66 14.28 331.03 7.68
14.10 314.87 7.68 28.21 315.25 76.67 8.73
7.72 19.86 70.22 315.18 314.74 58887.05
56.23 267.81 58274.13 -73.17 215.09 31.54 8.87
-11.78 257.47 7.57 -26.82 255.31 -38.82 41
.83 51.20 -27.72 27.58 62.06 -.73 -.64
-.07 .98 5870.03 -776.87 29876.94 -392.61 -235.50
184.06 20.13

TAPE NO. 1 FILE NO. 6
RECORD 1 LENGTH 30720
5028.1672706 7247.00 7403.00 3467.00 948.00 214.25 24.50 76.75 2222
.00 2.75 .75 1822.00 10.50 0.00 0.00 0.00 2823.67 1809.50 785.
33 312.00 86.67 8.50 41.17 1623.83 .42 .25 1659.33 3.42
0.00 0.00 0.00 5028.1679693 7259.00 7467.00 3451.00 933.50 234.00 3
1.00 66.75 2197.00 2.75 1.75 1812.00 10.25 0.00 0.00 0.00 2816
.45 1852.45 797.91 321.18 83.00 8.27 40.73 1668.27 .18 0.00
1640.45 4.36 0.00 0.00 0.00 5028.1686681 7199.00 7316.33 3333.67 9
17.00 233.67 31.00 69.67 2260.33 1.50 .33 1810.33 10.17 0.00
0.00 0.00 2869.77 1846.38 811.46 317.77 86.77 8.38 41.77 167
2.54 .08 0.00 1643.62 4.31 0.00 0.00 0.00 5028.1693668 7339.00 7
475.00 3504.00 964.50 224.75 33.75 74.75 2226.00 1.50 .25 1803.
00 11.75 0.00 0.00 0.00 2869.55 1823.55 809.00 317.55 86.00
7.91 43.91 1697.00 .36 .18 1643.00 3.45 0.00 0.00 0.00 5028.
1700656 7250.20 7378.20 3368.60 935.00 215.20 30.80 72.60 2287.00
1.40 .40 1815.80 8.60 0.00 0.00 0.00 2819.67 1847.50 808.83
314.50 84.42 7.92 41.17 1709.17 .75 .17 1648.33 3.83 0.00
0.00 0.00 5028.1707643 7447.00 7611.00 3524.00 961.00 232.25 32.75

ENERGETIC PROTON FLUXES
1-MINUTE AVERAGE DATA
FILE 6-10

3 .88 .38 1208.50 .50 .13 0.00 0.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 5179.0633768 2495.00 1116.00 348.25 109.63 22.25 1.
38 1.00 34.00 .75 .38 1220.00 1.25 0.00 0.00 0.00 -1.0
0 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 5179.0640789 2518.50 1160.50 339.25 91
.88 27.38 1.00 .50 33.63 1.00 .50 1216.75 .88 .13
0.00 0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0647809 2440.00 120
5.00 364.50 92.75 27.00 1.75 1.00 33.13 1.25 .50 1220.25
0.00 .13 0.00 0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.06
5483.0 2345.50 1139.50 356.50 97.25 24.50 .63 .88 32.88 1
.00 .25 1221.25 .25 0.00 0.00 0.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 5179.0661851 2264.50 1119.75 363.75 93.75 19.38 2.00
.38 32.38 .88 .50 1200.50 .50 0.00 0.00 0.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0
0 -1.00 -1.00 -1.00 -1.00 5179.0668872 2244.00 1087.50 372.63 91.63
24.00 1.63 1.25 29.63 .75 .13 1209.75 .50 .13 0.00
0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0675892 2302.50 1047.50
356.75 89.50 22.38 1.50 .88 31.63 1.13 .25 1221.75
.88 0.00 0.00 0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0682913
2230.50 1021.50 359.25 91.00 24.13 1.63 .88 29.13 .50
.25 1233.50 .75 0.00 0.00 0.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 5179.0689934 2301.50 991.50 363.50 86.00 22.75 1.13 1.00
33.75 1.00 .25 1221.25 .38 0.00 0.00 0.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00

TAPE NO. 1 FILE NO. 10

RECORD 2 LENGTH 30720

5179.0696955 2200.00 944.50 342.38 85.75 19.75 1.75 1.38 30
.88 1.25 .50 1206.25 .88 0.00 0.00 .13 -1.00 -1.00 -1.
00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 5179.0703975 2179.50 930.25 367.13 101.63 22.50
1.38 1.13 29.25 .50 .13 1221.50 .75 0.00 0.00 0.00 -1
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 5179.0710996 2263.00 979.50 351.88
94.13 21.00 2.00 .38 30.75 .88 .25 1243.75 1.00 0.00
0.00 0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0718017 2219.00
944.25 343.00 80.75 21.13 1.88 .88 28.00 .38 .13 1222.
50 .50 0.00 0.00 0.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.
0725037 2223.00 917.29 330.29 84.14 20.86 .86 .14 26.14
.75 .13 1209.50 .38 .13 0.00 0.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 5179.0732058 2177.00 915.25 316.75 87.75 18.88 1.75
.75 26.63 .88 .38 1219.50 .63 .13 0.00 0.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1
.00 -1.00 -1.00 -1.00 -1.00 5179.0739079 2138.50 945.50 336.50 83.75
18.25 1.13 .75 30.00 .38 .13 1221.00 .13 0.00 0.00
0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0746100 2245.29 962.71
320.14 82.57 20.14 1.00 .43 26.14 1.29 1.00 1208.14
.57 0.00 0.00 0.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0753120
2191.50 961.00 327.75 87.88 20.00 1.50 .88 28.25 .50
.13 1216.25 .63 .13 0.00 0.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0

0 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -

1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -

1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0000000

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.0000000 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

-1.00 -1.00 -1.00 -1.00

TAPE NO. 1 FILE NO. 11

RECORD 1 LENGTH 30720

5028.1672700 -1.00 -1.00 -1.00 202.14 -1.00 335.71 -1.00 -1.00 285.00

-1.00 -1.00 147.14 -1.00 156.43 -1.00 -1.00 37.86 -1.00 87.86

-1.00 -1.00 -1.00 47.37 -1.00 53.68 -1.00 -1.00 65.79 -1.0

0 -1.00 78.95 -1.00 71.58 -1.00 -1.00 41.05 -1.00 53.16 -1.

00 -1.00 -1.00 17.14 -1.00 14.29 -1.00 -1.00 20.71 -1.00 -1

.00 23.57 -1.00 44.29 -1.00 -1.00 211.43 -1.00 262.86 -1.00 -

1.00 -1.00 95.26 -1.00 81.58 -1.00 -1.00 49.47 -1.00 -1.00

16.84 -1.00 33.16 -1.00 -1.00 424.74 -1.00 267.37 5028.1679688 -1.00

-1.00 -1.00 196.43 -1.00 337.86 -1.00 -1.00 299.29 -1.00 -1.00 1

45.71 -1.00 155.00 -1.00 -1.00 55.71 -1.00 82.14 -1.00 -1.00

-1.00 60.00 -1.00 66.67 -1.00 -1.00 60.56 -1.00 -1.00 95.00

-1.00 83.89 -1.00 -1.00 51.67 -1.00 45.56 -1.00 -1.00 -1.00

13.57 -1.00 15.71 -1.00 -1.00 26.43 -1.00 -1.00 20.71 -1.00

62.86 -1.00 -1.00 220.71 -1.00 302.14 -1.00 -1.00 -1.00 86.67

-1.00 8.56 -1.00 -1.00 50.00 -1.00 -1.00 20.56 -1.00 32.2

2 -1.00 -1.00 415.00 -1.00 304.44 5028.1686675 -1.00 -1.00 -1.00 200.

77 -1.00 343.85 -1.00 -1.00 309.23 -1.00 -1.00 151.54 -1.00 166.1

5 -1.00 -1.00 61.54 -1.00 77.69 -1.00 -1.00 -1.00 63.33 -1.

00 63.81 -1.00 -1.00 55.24 -1.00 -1.00 80.95 -1.00 79.52 -1

.00 -1.00 53.33 -1.00 50.95 -1.00 -1.00 -1.00 23.08 -1.00 2

2.31 -1.00 -1.00 23.08 -1.00 -1.00 18.46 -1.00 49.23 -1.00

-1.00 233.85 -1.00 261.54 -1.00 -1.00 -1.00 62.86 -1.00 77.14

-1.00 -1.00 49.52 -1.00 -1.00 16.67 -1.00 42.38 -1.00 -1.00

419.52 -1.00 312.86 5028.1693663 -1.00 -1.00 -1.00 225.71 -1.00 350.00

-1.00 -1.00 293.57 -1.00 -1.00 127.14 -1.00 196.43 -1.00 -1.00

57.86 -1.00 72.86 -1.00 -1.00 -1.00 48.95 -1.00 70.53 -1.00

-1.00 67.89 -1.00 -1.00 77.89 -1.00 87.89 -1.00 -1.00 42.63

-1.00 59.47 -1.00 -1.00 -1.00 12.86 -1.00 15.00 -1.00 -1.00

17.86 -1.00 -1.00 27.14 -1.00 53.57 -1.00 -1.00 212.86 -1.0

0 286.43 -1.00 -1.00 -1.00 81.58 -1.00 68.95 -1.00 -1.00 44.

21 -1.00 -1.00 14.74 -1.00 38.95 -1.00 -1.00 416.84 -1.00 328

.95 5028.1700650 -1.00 -1.00 -1.00 222.14 -1.00 322.86 -1.00 -1.00 285.

71 -1.00 -1.00 148.57 -1.00 177.14 -1.00 -1.00 59.29 -1.00 80

.00 -1.00 -1.00 -1.00 73.50 -1.00 63.50 -1.00 -1.00 61.50 -

1.00 -1.00 70.50 -1.00 73.50 -1.00 -1.00 52.50 -1.00 49.50

-1.00 -1.00 -1.00 17.14 -1.00 21.43 -1.00 -1.00 27.14 -1.00

-1.00 24.29 -1.00 51.43 -1.00 -1.00 241.43 -1.00 286.43 -1.00

-1.00 -1.00 79.00 -1.00 77.00 -1.00 -1.00 47.00 -1.00 -1.00

18.00 -1.00 37.50 -1.00 -1.00 417.00 -1.00 264.50 5028.1707638 -1.

00 -1.00 -1.00 222.14 -1.00 383.57 -1.00 -1.00 305.71 -1.00 -1.00

162.86 -1.00 163.57 -1.00 -1.00 51.43 -1.00 86.43 -1.00 -1.00

-1.00 62.50 -1.00 74.00 -1.00 -1.00 57.50 -1.00 -1.00 79.00

-1.00 78.50 -1.00 -1.00 49.00 -1.00 55.50 -1.00 -1.00 -1.0

0 20.00 -1.00 26.43 -1.00 -1.00 17.14 -1.00 -1.00 29.29 -1.

00 57.14 -1.00 -1.00 227.14 -1.00 293.57 -1.00 -1.00 -1.00 78

SC2-3 PLASMA DATA

FILES 11-15

20.00 -1.00 22.50 20.00 -1.00 33.75 43.33 -1.00 87.78 122.50
-1.00 232.22 337.50 481.11 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00

TAPE NO. 1 FILE NO. 15
RECORD 2 LENGTH 30720
5179.0289862 -1.00 -1.00 11.25 18.75 28.75 57.50 -1.00 42.50 5.00
-1.00 2.50 3.75 -1.00 8.75 5.00 -1.00 2.50 1.25 15.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0
0 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 0.00 2.50 8.75 15.00 -1.00 33.75 22.50 -1.00 31
.25 58.75 -1.00 97.50 163.75 -1.00 221.25 333.75 542.50 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0296883 -1.00
-1.00 24.44 25.00 26.67 56.25 -1.00 61.11 10.00 -1.00 4.44
1.25 -1.00 1.25 6.67 -1.00 7.50 4.44 8.75 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5.56
6.25 12.22 15.00 -1.00 18.89 25.00 -1.00 44.44 53.75 -1.00
75.00 131.11 -1.00 210.00 348.89 548.75 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0
0 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0303903 -1.00 -1.00 27.50 30.
00 58.75 67.50 -1.00 62.50 7.50 -1.00 1.25 2.50 -1.00 5.0
0 7.50 -1.00 2.50 6.25 2.50 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 1.25 1.25 20.00 2
0.00 -1.00 20.00 25.00 -1.00 33.75 58.75 -1.00 88.75 166.25
-1.00 202.50 371.25 548.75 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 5179.0310924 -1.00 -1.00 21.25 26.67 43.75 51.11
-1.00 43.75 13.33 -1.00 3.75 3.33 -1.00 3.33 6.25 -1.00
2.22 3.75 7.78 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 7.50 5.56 13.75 13.33 -1.00 21.25
25.56 -1.00 41.25 41.11 -1.00 110.00 123.75 -1.00 190.00 363.7
5 553.33 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1
.00 5179.0317945 -1.00 -1.00 16.67 30.00 58.89 53.75 -1.00 56.67 17.
50 -1.00 5.56 0.00 -1.00 3.75 11.11 -1.00 5.00 10.00 8
.75 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 4.44 8.75 5.56 16.25 -1.00 28.89 32.50 -1.00
22.22 61.25 -1.00 101.25 120.00 -1.00 230.00 320.00 556.25 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0324965 -1.
00 -1.00 17.50 31.25 48.75 71.25 -1.00 56.25 6.25 -1.00 1.25
3.75 -1.00 6.25 3.75 -1.00 2.50 2.50 10.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 3.7
5 2.50 13.75 11.25 -1.00 17.50 26.25 -1.00 36.25 50.00 -1.
00 102.50 133.75 -1.00 180.00 333.75 503.75 -1.00 -1.00 -1.00 -1
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0331986 -1.00 -1.00 27.50
41.25 70.00 70.00 -1.00 61.25 23.75 -1.00 6.25 2.50 -1.00
1.25 6.25 -1.00 8.75 2.50 7.50 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5.00 5.00 11.25
8.75 -1.00 20.00 28.75 -1.00 52.50 52.50 -1.00 91.25 115.00
-1.00 217.50 266.25 573.75 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 5179.0339007 -1.00 -1.00 31.25 42.50 65.00 67.50
-1.00 67.50 18.75 -1.00 2.50 3.75 -1.00 8.75 7.50 -1.00
1.25 7.50 10.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0

-1.00 143.75 7.50 -1.00 2.50 3.75 -1.00 5.00 7.50 15.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0
0 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 2.50 0.00 2.50 2.50 -1.00 2.50 5.00 -1.00 11
.25 25.00 -1.00 42.50 65.00 -1.00 128.75 193.75 271.25 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0528567 -1.00
-1.00 12.50 42.50 82.50 87.50 -1.00 151.25 201.25 -1.00 33.75
2.50 -1.00 6.25 6.25 -1.00 3.75 5.00 8.75 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 1.25
1.25 0.00 2.50 -1.00 3.75 3.75 -1.00 16.25 17.50 -1.00
46.25 73.75 -1.00 162.50 243.75 258.75 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.0
0 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0535588 -1.00 -1.00 17.14 31.
25 61.43 83.75 -1.00 182.86 207.50 -1.00 131.43 7.50 -1.00 5.0
0 4.29 -1.00 10.00 7.14 10.00 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 0.00 0.00 0.00
3.75 -1.00 4.29 11.25 -1.00 18.57 13.75 -1.00 43.75 47.14
-1.00 160.00 244.29 266.25 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 5179.0542608 -1.00 -1.00 10.00 31.25 83.75 86.25
-1.00 212.50 202.50 -1.00 147.50 11.25 -1.00 12.50 7.50 -1.00
6.25 3.75 7.50 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 1.25 0.00 0.00 3.75 -1.00 2.50
5.00 -1.00 11.25 21.25 -1.00 57.50 58.75 -1.00 136.25 235.0
0 272.50 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.
00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1
.00 5179.0549629 -1.00 -1.00 10.00 21.25 58.75 101.25 -1.00 203.75 205.
00 -1.00 151.25 15.00 -1.00 6.25 6.25 -1.00 12.50 2.50 10
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 1.25 1.25 5.00 2.50 -1.00 5.00 11.25 -1.00
8.75 20.00 -1.00 50.00 40.00 -1.00 178.75 221.25 223.75 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0556650 -1.
00 -1.00 7.78 18.75 38.89 77.50 -1.00 178.89 225.00 -1.00 127.78
7.50 -1.00 6.25 3.33 -1.00 3.75 4.44 11.25 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 2.2
2 1.25 0.00 1.25 -1.00 5.56 3.75 -1.00 15.56 28.75 -1.
00 38.75 55.56 -1.00 181.25 234.44 231.25 -1.00 -1.00 -1.00 -1
.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -
1.00 -1.00 -1.00 -1.00 -1.00 -1.00 5179.0563671 -1.00 -1.00 11.25
18.75 35.00 71.25 -1.00 180.00 207.50 -1.00 273.75 17.50 -1.00
3.75 7.50 -1.00 5.00 3.75 16.25 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 1.25 1.25 2.50
0.00 -1.00 3.75 8.75 -1.00 17.50 18.75 -1.00 25.00 46.25
-1.00 200.00 222.50 223.75 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
-1.00 -1.00 -1.00

TAPE NO. 1 FILE NO. 16
RECORD 1 LENGTH 30720
5028.1668004 -19.29 28.08 123.76 128.36 5028.1669856 -19.10 31.52 123.37 128.76
5028.1671708 -18.26 32.67 122.43 128.02 5028.1673560 -19.73 29.51 122.66 127.69 502
8.1675411 -18.35 26.37 124.87 128.93 5028.1677263 -19.77 25.66 124.82 128.96 5028.1
679115 -19.80 25.85 124.05 128.25 5028.1680967 -19.52 27.26 123.78 128.24 5028.1682
819 -20.53 29.90 124.07 129.26 5028.1684671 -18.23 31.89 123.73 129.07 5028.1686522
-18.83 30.70 123.21 128.36 5028.1688374 -20.10 26.80 124.62 129.04 5028.1690226 -
18.50 25.50 126.05 129.93 5028.1692078 -19.85 26.40 125.00 129.29 5028.1693930 -19.

B-FIELD AVERAGE 1 MINUTE DATA

99.65 5179.1043664 -72.27 -7.33 69.40 100.46 5179.1045515 -70.01 -8.80 70.92
100.04 5179.1047367 -68.47 -6.56 71.97 99.55 5179.1049219 -69.75 -5.94 70.70 99
.49 5179.1051071 -70.02 -8.24 71.02 100.08 5179.1052923 -71.19 -6.18 69.69 99.81
5179.1054775 -71.90 -8.05 67.88 99.21 5179.1056627 -70.90 -9.16 69.32 99.58
5179.1058478 -70.39 -7.54 70.33 99.79 5179.1060330 -68.52 -7.97 71.79 99.56 517
9.1062182 -68.51 -7.29 71.41 99.23 5179.1064034 -70.64 -7.93 69.77 99.61 5179.1
065886 -71.09 -9.99 69.54 99.94 5179.1067738 -72.20 -8.59 68.29 99.75 5179.1069
589 -71.50 -8.98 68.01 99.09 5179.1071441 -70.99 -7.91 69.80 99.87 5179.1073293
-69.80 -6.72 70.77 99.63 5179.1075145 -68.70 -7.04 71.23 99.21 5179.1076997 -
70.61 -5.80 69.45 99.21 5179.1078849 -71.70 -8.58 68.72 99.68 5179.1080700 -72.
07 -7.06 68.40 99.61 5179.1082552 -72.50 -6.65 67.18 99.07 5179.1084404 -70.70
-9.05 68.43 98.81 5179.1086256 -70.12 -7.09 69.97 99.31 5179.1088108 -69.29 -
7.57 70.61 99.22 5179.1089960 -68.67 -7.63 70.40 98.65 5179.1091811 -71.63 -6.4
7 68.02 98.99 5179.1093663 -71.99 -9.74 67.93 99.46 5179.1095515 -70.81 -9.14
69.17 99.41 5179.1097367 -69.95 -7.16 68.82 98.40 5179.1099219 -69.12 -8.19 70
.24 98.89 5179.1101071 -69.33 -6.53 71.31 99.67 5179.1102922 -69.01 -6.35 70.88
99.13 5179.1104774 -69.90 -7.03 69.07 98.52 5179.1106626 -71.03 -8.44 68.15
98.80 5179.1108478 -70.93 -8.36 68.59 99.02 5179.1110330 -70.93 -6.91 67.90 98
.43 5179.1112182 -69.34 -8.80 68.28 97.71 5179.1114034 -69.35 -7.90 69.67 98.62
5179.1115885 -69.91 -7.85 69.79 99.10 5179.1117737 -68.88 -8.61 69.45 98.19
5179.1119589 -71.14 -6.15 66.92 97.86 5179.1121441 -72.42 -8.53 66.54 98.72 517
9.1123293 -70.63 -8.32 68.28 98.59 5179.1125145 -69.82 -5.43 67.89 97.53 5179.1
126996 -69.30 -7.21 67.93 97.31 5179.1128848 -69.38 -6.39 69.00 98.06 5179.1130
700 -70.26 -5.06 67.52 97.58 5179.1132552 -70.19 -6.78 66.18 96.71 5179.1134404
-70.96 -7.22 65.86 97.08 5179.1136256 -70.80 -7.50 66.82 97.65 5179.1138107 -
69.14 -6.90 68.30 97.43 5179.1139959 -68.43 -6.21 68.11 96.75 5179.1141811 -68.
82 -6.75 68.34 97.22 5179.1143663 -69.35 -7.29 68.38 97.67 5179.1145515 -68.88
-7.75 67.87 97.01 5179.1147367 -69.85 -6.71 66.31 96.54 5179.1149218 -70.84 -
7.59 66.42 97.40 5179.1151070 -68.77 -8.57 68.17 97.21 5179.1152922 -67.90 -6.4
1 67.93 96.26 5179.1154774 -68.11 -8.29 67.21 96.05 5179.1156626 -68.28 -9.24
67.68 96.58 5179.1158478 -69.57 -7.25 66.50 96.52 5179.1160329 -69.23 -8.98 65
.64 95.82 5179.1162181 -69.39 -8.44 65.85 96.03 5179.1164033 -69.28 -8.09 67.14
96.81 5179.1165885 -67.42 -8.40 68.46 96.45 5179.1167737 -67.25 -6.24 67.52
95.50 5179.1169589 -69.19 -6.98 66.30 96.08 5179.1171440 -69.59 -7.79 66.58 96
.62 5179.1173292 -69.54 -6.89 65.82 96.00 5179.1175144 -69.02 -6.74 65.20 95.18
5179.1176996 -69.51 -6.99 65.91 96.05 5179.1178848 -68.92 -6.71 67.14 96.46
5179.1180700 -67.88 -5.65 67.01 95.55 5179.1182552 -69.01 -6.71 65.48 95.37 517
9.1184403 -69.76 -8.17 65.60 96.11 5179.1186255 -70.20 -6.35 65.21 96.02 5179.1
188107 -69.73 -6.56 64.89 95.48 5179.1189959 -69.03 -6.88 65.49 95.40 5179.1191
811 -68.98 -5.71 66.51 96.00 5179.1193663 -67.40 -7.41 67.64 95.78 5179.1195514
-67.42 -5.63 66.64 94.96 5179.1197366 -69.76 -5.97 64.60 95.27 5179.1199218 -
69.96 -7.78 65.17 95.93

TAPE NO. 1 FILE NO. 20
RECORD 2 LENGTH 30720
5179.1201070 -69.34 -6.19 65.64 95.68 5179.1202922 -68.42 -6.94 65.45 94.94
5179.1204774 -67.70 -7.75 67.19 95.69 5179.1206625 -68.06 -6.89 67.67 96.22 517
9.1208477 -67.80 -7.34 66.64 95.35 5179.1210329 -68.48 -7.79 65.18 94.87 5179.1
212181 -70.26 -8.38 64.76 95.92 5179.1214033 -69.45 -8.24 65.75 95.99 5179.1215
885 -67.80 -7.19 66.31 95.10 5179.1217736 -67.61 -6.49 66.23 94.87 5179.1219588
-68.57 -6.69 66.61 95.83 5179.1221440 -68.09 -7.68 67.14 95.93 5179.1223292 -
68.01 -6.98 65.71 94.83 5179.1225144 -70.36 -7.13 63.41 94.99 5179.1226996 -70.
26 -8.94 64.49 95.79 5179.1228847 -69.31 -6.30 64.98 95.22 5179.1230699 -68.65
-6.43 64.91 94.70 5179.1232551 -67.71 -8.19 66.04 94.94 5179.1234403 -68.56 -
6.26 66.58 95.77 5179.1236255 -68.73 -7.06 65.64 95.30 5179.1238107 -69.38 -6.8
1 64.49 94.97 5179.1239958 -70.84 -6.62 64.03 95.72 5179.1241810 -69.71 -7.29
65.43 95.88 5179.1243662 -68.01 -6.22 66.33 95.20 5179.1245514 -67.72 -5.17 65
.84 94.59 5179.1247366 -68.72 -6.33 65.92 95.44 5179.1249218 -68.90 -6.97 66.03
95.68 -1.0000000 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00
-1.00 -1.0000000 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00 -1
.00 -1.0000000 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00 -1.00
-1.0000000 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00 -1.00
-1.0000000 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00 -1.00 -
1.0000000 -1.00 -1.00 -1.00 -1.00 -1.0000000 -1.00 -1.00 -1.00 -1.0