[redacted]

#748

ISEE - 1

MEPI/WAPS 3-D DIST. FUNC (36-S)

77-102A-09H

[redacted]

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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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

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

2. ERRATA/CHANGE LOG:

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

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

Version	Date	Person	Page	Description of Change
01				
02				

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

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

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

4. CATALOG MATERIALS:

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

b. Core Catalog Materials

77-102A-09H SPMS-00439

ISEE-1

MEPI/WAPS 3-D DIST.FUNC(36-S)

THIS DATA SET CONSISTS OF 10 8-MM TAPES. THE TAPES WERE CREATED ON A VAX SYSTEM AND WRITTEN IN VAX BACKUP FORMAT AND ARE ARCHIVED AS SUCH, THE TAPES ARE LABELED, WITH LABEL NAME OF "ISEE".THE D TAPES ARE IN A MIXED MODE DENSITY(WHICH IS HOW THEY WERE SENT TO US), THE C TAPES ARE HIGH DENSITY. EACH TAPE HAVE SEVERAL SAVESETS CONTAINED,WHICH ARE LISTED IN THE DATASET CATALOG. THE D AND C NUMBERS ALONG WITH THEIR TIMESPANS ARE BELOW.

TAPES D-88199,D-88200,D-88201,D-88204,D-88206, ALL HAVE
AN INCOMPLETE SAVE SET AT THE END. IT APPEARS THE BACKUPS WERE ALLOWED TO RUN UNTIL THE TAPE RAN OUT. IN EACH CASE, THE NEXT TAPE CONTAINS A COMPLETE COPY OF THAT SAVE SET. WHEN COPYING THESE TAPES, IT IS RECOMMENDED THAT ONLY THE INTACT SAVE SET BE COPIED.

D#	C#	FILES	TIMESPAN
D-088199	C-031482	110	11/09/77-12/15/77
D-088200	C-031483	86	12/15/77-01/13/78
D-088201	C-031484	75	01/12/78-02/05/78
D-088202	C-031485	141	02/06/78-03/24/78 03/12/78-03/12/78
D-088203	C-031486	111	03/25/78-04/30/78
D-088204	C-031487	462	05/01/78-10/02/78
D-088205	C-031488	558	08/10/78-03/30/79
D-088206	C-031489	456	03/30/79-08/26/79
D-088207	C-034190	51	08/25/79-09/10/79
D-088208	C-034191	3	SOFTWARE TAPE

TAPE MODES 8200,D-088199,D-088200,D-088201,D-088202,D-088203

8500,D-088204,D-088205,D-088206,D-088207,D-088208

LISTINGS OF SAVESETS PER TAPE

D-088199	WF77313.BCK
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D-088199	WF77349.BCK**(incomplete saveset,use D-88200)**

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	WF78011.BCK**(no saveset,but there is a data file)
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D-088207        WF79253.BCK
D-088207**(there are no data files contained for days 79242,79243)**


D-088208        SOFTWARE TAPE
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/* VOLDESC.SFD File

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LOG_VOL_INITIATION_DATE: YYYY-MM-DD
LOG_VOL_CLOSING_DATE: YYYY-MM-DD
LOG_VOL_CAPACITY: 1GB/LOGICAL_VOL
LOG_VOL_FILE_STRUCTURE: FILES-11
VOLUME_DIAMETER: 12 INCHES
VOLUME_DRIVE_MFGR_AND_MODEL: OPTIMUM 1000
COMPUTE_MFGR: DIGITAL EQUIPMENT CORPORATION
OPERATING SYSTEM: VMS 5.?
COMPUTER_SYSTEM: VAX Workstation Cluster ?
TRANSFER_SOFTWARE: SOAR 3.0 ?
TECHNICAL_CONTACT: Lora Suther, Johns Hopkins Applied Physics Laboratory, Johns Hopkins Road, Laurel, MD 20723
SPAN APLSP::SUTHER
(301) 953-5000 Ext 8412
PREV_LOG_VOLS: NONE

CCSDXVNM0002EMARK001CCSDYDNM000200NSSDefghSMARK003

/* Section 4.2 - Information for understanding whole data set

DATA_SET_NAME: MEPI ENERGETIC PARTICLE FLUXES
DATA_SOURCES: ISEE-1, Medium Energy Particles Instrument
SCIENTIFIC_CONTACT: Dr. D. J. Williams or Dr. D. G. Mitchell
JHU/APL
Johns Hopkins Rd.
Laurel,MD 20707

OURCE_CHARACTERISTICS:

A. Description_of_Spacecraft:

The ISEE-1 spacecraft was one of three International Sun-Earth Explorer spacecraft, ISEE-1 and -3 built and run by NASA, ISEE-2 by ESA. ISEE-3 was launched in 1978 into a libration point halo orbit in the solar wind 240 Re upstream of earth. ISEE-1 and -2 were launched together on October 22, 1977 into nearly identical elliptical orbits of ~57 hours, apogee at ~23 Re, and the distance between ISEE-1 and -2 variable from ~100 km to several Re according to orbital position and the maneuverability of ISEE-2. The two spacecraft were instrumented with nearly identical complements of particles and fields experiments, designed to study magnetospheric boundaries. The spacecraft spin with a 3 second period, and their spin axis is aligned to within a few degrees of the negative Zgse axis.

B. Orbit_Information:

ISEE-1 and -2 were placed in highly elliptical (apogee ~23 Re, perigee ~several hundred km) orbits with a period of ~57 hours. ISEE-2 led ISEE-1 in orbit, and their separation was controlled by maneuvering ISEE-2 with on-board propulsion. The orbit was inclined 23 degrees to the geographic equator. The spacecraft re-entered the atmosphere in September, 1988.

C. Performance:

The ISEE-1 spacecraft performed normally from launch to re-entry.

TIME_SPAN_OF_THE_DATA: 10 November 1977 to 8 September, 1979
INVESTIGATION_OBJECTIVES: The MEPI was to measure the 3-d angular distribution f the flux of energetic ions (25 keV to 2 MeV) and electrons (22.5 keV to 1.2 MeV) throughout the ISEE-1 orbit. These data were to be used to investigate the physical mechanisms associated with acceleration, source and loss processes, and boundary and interface phenomena in the magnetosphere, magnetosheath, and solar wind. These phenomena include geomagnetic storms, substorms, other geomagnetic tail events, magnetopause shape and dynamics, magnetosheath flow, bowshock effects, and interplanetary and solar flare energetic particle behav-

```
$   exit
$  IF F$MODE() .EQS. "BATCH" THEN EXIT
$ set noverify
%DCL-I-ALLOC, _MKA600: allocated
%MOUNT-I-MOUNTED, ISEE mounted on _MKA600:
Listing of save set(s)

Save set:           WF77313.BCK
Written by:         GUNTHER
UIC:                [000120,000150]
Date:               23-JUN-1992 13:12:45.87
Command:            BACK/LOG WF77313.DAT MUA0:WF77313.BCK/SAV/LABEL=ISEE
Operating system:   VAX/VMS version V5.4
BACKUP version:     V5.4
CPU ID register:    0A000004
Node name:          _S1PVX1::
Written on:         _S1PVX1$MUA0:
Block size:         8192
Group size:         10
Buffer count:       43

[IMP.ISEE]WF77313.DAT;1                                  4512  23-JUN-1992 07:50

Total of 1 file, 4512 blocks
End of save set

Save set:           WF77314.BCK
Written by:         GUNTHER
UIC:                [000120,000150]
Date:               23-JUN-1992 13:18:25.28
Command:            BACK/LOG WF77314.DAT MUA0:WF77314.BCK/SAV/LABEL=ISEE
Operating system:   VAX/VMS version V5.4
BACKUP version:     V5.4
CPU ID register:    0A000004
Node name:          _S1PVX1::
Written on:         _S1PVX1$MUA0:
Block size:         8192
Group size:         10
Buffer count:       43

[IMP.ISEE]WF77314.DAT;1                                 34082  23-JUN-1992 07:51

Total of 1 file, 34082 blocks
End of save set

Save set:           WF77315.BCK
Written by:         GUNTHER
UIC:                [000120,000150]
Date:               23-JUN-1992 13:21:37.62
Command:            BACK/LOG WF77315.DAT MUA0:WF77315.BCK/SAV/LABEL=ISEE
Operating system:   VAX/VMS version V5.4
BACKUP version:     V5.4
CPU ID register:    0A000004
Node name:          _S1PVX1::
Written on:         _S1PVX1$MUA0:
Block size:         8192
Group size:         10
Buffer count:       43

[IMP.ISEE]WF77315.DAT;1                                 33594  23-JUN-1992 07:56

Total of 1 file, 33594 blocks
```

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Date:                24-JUN-1992 12:44:53.51
Command:             BACK/LOG WF77347.DAT MUA0:WF77347.BCK/SAV/LABEL=ISEE
Operating system:    VAX/VMS version V5.4
BACKUP version:      V5.4
CPU ID register:     0A000004
Node name:           _S1PVX1::
Written on:          _S1PVX1$MUA0:
Block size:          8192
Group size:          10
Buffer count:        43

[IMP.ISEE]WF77347.DAT;1                                  131083  24-JUN-1992 10:54

Total of 1 file, 131083 blocks
End of save set

Save set:            WF77348.BCK
Written by:          GUNTHER
UIC:                 [000120,000150]
Date:                24-JUN-1992 12:44:12.83
Command:             BACK/LOG WF77348.DAT MUA0:WF77348.BCK/SAV/LABEL=ISEE
Operating system:    VAX/VMS version V5.4
BACKUP version:      V5.4
CPU ID register:     0A000004
Node name:           _S1PVX1::
Written on:          _S1PVX1$MUA0:
Block size:          8192
Group size:          10
Buffer count:        43

[IMP.ISEE]WF77348.DAT;1                                   55284  24-JUN-1992 11:18

Total of 1 file, 55284 blocks
End of save set

Save set:            WF77349.BCK
Written by:          GUNTHER
UIC:                 [000120,000150]
Date:                24-JUN-1992 12:48:34.78
Command:             BACK/LOG WF77349.DAT MUA0:WF77349.BCK/SAV/LABEL=ISEE
Operating system:    VAX/VMS version V5.4
BACKUP version:      V5.4
CPU ID register:     0A000004
Node name:           _S1PVX1::
Written on:          _S1PVX1$MUA0:
Block size:          8192
Group size:          10
Buffer count:        43

%BACKUP-F-LABELERR, error in tape label processing on MKA600:[000000]*.*;
-SYSTEM-F-DRVERR, fatal drive error
  DUNSTON       job terminated at 10-MAY-1994 05:01:21.73

  Accounting information:
  Buffered I/O count:              356          Peak working set size:     3283
  Direct I/O count:             147860          Peak page file size:       6439
  Page faults:                    4291          Mounted volumes:              1
  Charged CPU time:           0 00:15:32.78     Elapsed time:      0 00:45:33.07
```