DSC#
860

DE-1
ENERGETIC ION Composition
Spectrometer Flux Data

06A + 06B

81-070A-06A

81-070A-06A

SPMS-00612

Energtic Ion Compostion Spectrometer
Density Data

81-070A-06B

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

DE-1

ENERGETIC ION COMPOSITION SPECTROMETER
(EICS) FLUX DATA
81-070A06A

ENERGETIC ION COMPOSITION SPECTROMETER
(EICS) DENSITY DATA
81-070A-06B

06A + 06B - SPMS-00612

This data set catalog consists of one 9 track tape and one 4mm. The 9 track tape is binary and contain data files and header&trailer file. The D&C number and the time span are as follow:

D	C	TIME SPAN
D74071	C026160	01/28/83- 03/25/83 03/26/83

I-Q. AGENT	RAND NO.	ACQ. AGENT
GLS	V0324	HKH

DE-1

ENERGETIC ION COMPOSITION SPECTROMETER
(EICS) FLUX DATA
81-070A-06A
ENERGETI ION COMPOSITION SPECTROMETER
(EICS) DENSITY DATA
81-070A-06B

This data set consists of one magnetic tape. The tape is 9 track, 6250 BPI, and contains 1 file of data with a header + trailer file. The data file is written in ASCII. This tape was created on an VAX 11/780 computer. The D + C number and the time intervals are as follows;

D	C	TIME INTERVAL
74071	C26160	01/28/83, 03/05/83, 03/26/83

final

9040

DATE: April 10, 1986

NSSDC ID: 81-070A-06A

P.I.: E. G. Shelley

CDAW DATA SET ENTRY

DATE RECEIVED: April 9, 1986

DATA SENT BY: Dr. William Peterson (+ Collin)

PARTICIPANT:

MATERIAL RECEIVED: Questionnaire via SPAN, Mail Message, 1-tape, desc. text

SATELLITE/NSDF NAME:

CDAW DATA SET MNEMONIC: ~~DE07~~ ~~DE106F~~ D16F

CDAW DATA SET NAME: ~~DE07~~ DE-A EICS - flux

AIM FILE DATA SET NAME: ~~DE-A~~ Energet. Ion Spec. Comp (EICS) flux

CDAW NEW DATA SET ADDITIONS REPLACEMENTS

AIM FILE NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS: Was told DE-1 data has never been used in a CDAW before. meaning of fluxes < ¢? [illegible] due to background subtraction

TIME COVERAGE:

TAPES TO BE RETURNED TO:

RECEIVED BY: Leah Saterwood

DATE: April 10, 1986

NSSDC ID: 81-070A-06B

P.I.: E. G. Shelley

CDAW DATA SET ENTRY

DATE RECEIVED: April 9, 1986

DATA SENT BY: Dr. William Peterson

PARTICIPANT:

MATERIAL RECEIVED: Electronic via SPAN, Mail Message, 9-track, description.

SATELLITE/NSDF NAME:

CDAW DATA SET MNEMONIC: D107

CDAW DATA SET NAME: DE-A EICS - Density

AIM FILE DATA SET NAME: DE-A Energet. Ion Comp. Spec (EICS) Density

CDAW NEW DATA SET ADDITIONS REPLACEMENTS

AIM FILE NEW DATA SET ADDITIONS REPLACEMENTS

COMMENTS: Was told DE-1 data has never been used in a CDAW before.

TIME COVERAGE:

TAPES TO BE RETURNED TO:

RECEIVED BY: Judi Saturno

FURTHER NOTES ON THE DE-1/EICS DATA SET SUBMITTED TO CDAW-8

W. K. PETERSON
JULY 7, 1986

MEASURED NUMBER FLUXES FROM THE ENERGETIC ION COMPOSITION SPECTROMETER (EICS) ON DYNAMICS EXPLORER -1 ARE GIVEN FOR 15 ENERGY PASS BANDS. THE FOLLOWING IS A LISTING OF THE CENTER ENERGY AND THE UPPER AND LOWER ENERGIES WHERE THE INSTRUMENTAL RESPONSE IS 50%. ALL ENERGIES ARE EXPRESSED IN KEV. THE ENERGY VALUES HAVE BEEN ROUNDED TO THREE SIGNIFICANT DIGITS. FOR A COMPLETE DESCRIPTION OF THE INSTRUMENT SEE THE ARTICLE BY SHELLEY ET AL. IN SPACE SCIENCE INSTRUMENTATION 5, PAGES 443-454, 1981.

LOWER 50 % ENERGY	CENTER ENERGY	UPPER ENERGY
***	.062	.120
.150	.231	.312
.347	.433	.519
.556	.647	.738
.777	.874	.971
1.01	1.12	1.22
1.53	1.65	1.76
2.12	2.25	2.38
2.77	2.92	3.07
3.52	3.69	3.86
4.83	5.03	5.23
6.40	6.64	6.88
8.99	9.30	9.61
12.3	12.7	13.1
16.5	17.0	17.5

*** NOTE: THE LOWER LIMIT OF THE LOWEST ENERGY CHANNEL IS PROGRAMMABLE WITH RESPECT TO THE SPACECRAFT POTENTIAL. THE INSTRUMENTAL TRANSMISSION AT ANY SETTING IS MUCH GREATER THAN 50%, SEE THE PAPER BY SHELLEY ET AL. FOR DETAILS. DATA FROM THE VERY BROAD LOWEST ENERGY STEP WERE NOT USED TO CALCULATE THE DENSITIES REPORTED. SEVERAL DIFFERENT VALUES OF THE LOWER LIMIT FOR THE LOWEST ENERGY CHANNEL ARE AVAILABLE FOR SOME OF THE INTERVALS FOR WHICH FLUXES ARE REPORTED. THE FLUXES REPORTED USE EITHER THE SPACECRAFT POTENTIAL OR 10 EV ABOVE THE SPACECRAFT POTENTIAL AS A LOWER LIMIT FOR THE LOWEST ENERGY CHANNEL. IF THE EXACT VALUE IS IMPORTANT, OR IF DATA FOR SEVERAL LOWER LIMITS ARE DESIRED, PLEASE CONTACT W.K. PETERSON (415-424-3269), OR LOCKHD::PETE

DE106

(81-070A-06)

FROM: LOCKHD::PETE "BILL PETERSON" 10-MAR-1986 15:48
TO: NSSDC::GATEWOOD,COLLIN,QUINN,PETE
SUBJ: DE-1/EICS DATA FOR CDAW-8

WE ARE PLANNING TO SUBMIT DATA FROM THE DE-1 ENERGETIC ION COMPOSITION SPECTROMETER (EICS) INSTRUMENT TO THE CDAW 8.
WE ARE IN THE PROCESS OF GETTING THE DATA IN FILES ON OUR VAX AND WILL FORWARD, VIA SPAN MAIL THE INFORMATION REQUESTED IN YOUR MAILING DATED FEBRUARY 1986.

W. K. PETERSON
415-424-3269
LOCKHD::PETE

H. L. COLLIN.
415-424-3289
LOCKHD::COLLIN

Directory Created
3/25/86

Sys$USR1: [CDAWDATA. PETERSON]

W
ERNIE

FROM: LOCKHD::PETE "BILL PETERSON" 24-MAR-1986 13:08
TO: NSSDC::GATEWOOD,NSSDC::GREEN,COLLIN,PETE
SUBJ: DE/EICS DATA FOR CDAW-8

QUESTIONNAIRE AND SUBMISSION FORMS FOR DATA FROM THE DYNAMICS EXPLORER ENERGETIC ION COMPOSITION SPECTROMETER (EICS) INSTRUMENT TO THE CDAW 8 DATA BASE.

W. K. PETERSON
3/21/86

NAMES: W. K. PETERSON H. L. COLLIN
415 424 3269

DEPARTMENT 91-20 BUILDING 255
SPACE SCIENCES LABORATORY
LOCKHEED PALO ALTO RESEARCH LABORATORY
3251 HANOVER STREET
PALO ALTO, CALIFORNIA 94304

SPAN ADDRESSES
LOCKHD::PETE LOCKHD::COLLIN

AREA(S) OF INTEREST

MAGNETIC FIELD	PLASMA	MODEL
WAVES	ELECTRIC FIELD	PARTICLES

DATA IS NOW AVAILABLE ON SPAN NODE LOCKHD:: FOR THE FOLLOWING EVENTS
28 JAN (83028)
25 MAR (83084)
26 MAR (83085)
THE FILE NAMES AND LOCATION OF DESCRIPTIVE INFORMATION IS APPENDED.

DATA ARE FOR THE EICS INSTRUMENT ON DYNAMICS EXPLORER -1, E. G. SHELLEY, PRINCIPAL INVESTIGATOR. DATA PROVIDED ARE FLUXES FOR SELECTED MASS SPECIES AT UP TO 15 ENERGY STEPS AVERAGED OVER ALL PITCH ANGLES FOR 192 SECOND INTERVALS, AND PARTIAL DENSITIES FOR INTERVALS WHERE THE FULL ENERGY RANGE WAS SAMPLED. WE DO NOT WANT ANY FURTHER AVERAGING APPLIED TO THESE DATA.

WE DO NOT REQUIRE ANY SPECIAL DATA MANIPULATION FUNCTIONS TO BE ADDED TO THE 'SYSTEM'.

WE WILL HAVE REMOTE ACCESS VIA SPAN AND MODEM (VADIC 3400, BELL 212A, AND BELL 103 PROTOCOLS).

WE HAVE TEKTRONIX 4025 TERMINALS, TERMINALS THAT EMULATE TEKTRONIX 4010 (GRAPHON), VT100, VT200, AND OTHERS.

WE USE A VAX 11/780 SYSTEM WITH DECNET, AND THE DECUS SOFTWARE VAXNET AND KERMIT FOR REMOTE ACCESS.

LOCAL GRAPHICS SOFTWARE: DI-3000 AND IDL

SUBMITTED VIA SPAN MAIL TO NSSDC::GATEWOOD
COPY TO NSSDC::GREEN.

DETAILS OF THE DE/EICS DATA FILES AVAILABLE ON SPAN: FOR CDAW-8
CONTACTS LOCKHD::PETE OR LOCKHD::COLLIN

THE FILES ARE AVAILABLE IN THE DIRECTORY AVAILABLE FROM ANY SPAN NODE,

LOCKHD::DSK1:[COLLIN.SPAN.CDAW8]

PARTICLE FLUXES ARE AVAILABLE IN THE FILES:

FLUX_83028.DAT, FLUX_83084.DAT, AND FLUX_83085.DAT

A DESCRIPTION OF THE CONTENTS OF EACH OF THESE FILES IS IN THE FILE:

FLUX_FORMAT.TXT

PARTIAL DENSITIES ARE AVAILABLE IN THE FILES:

DENSITY_83028.DAT, DENSITY_83084.DAT, AND DENSITY_83085.DAT

A DESCRIPTION OF THE CONTENTS OF THESE FILES IS IN THE FILE:

DENSITY_FORMAT.TXT

----------END----------3/21/86----------

FORMAT INFORMATION FOR "DDENSITY_YYDDD.DAT" FILES FOR CDAW-8 (MARCH,1986)

FILE NAMING CONVENTION:

"YYDDD" CONTAINS THE YEAR AND DAY NUMBERS, FOR EXAMPLE 83028 FOR INTERVAL "A"

FILE CONTENTS:

EACH FILE CONTAINS DATA FOR ONE CDAW INTERVAL.

WITHIN EACH FILE EACH RECORD CORRESPONDS TO ONE 192 SEC PERIOD.

EACH RECORD HAS A HEADER WITH:
THE YEAR-DAY NUMBER AND TIME OF THE START AND FINISH OF THE 192 SEC PERIOD.
THE NUMBER OF ION MASSES INCLUDED IN THIS RECORD AND THEIR MASS/CHARGE VALUES.
(THE NUMBER OF ION MASSES WILL BE BETWEEN 2 AND 3)

FOR EACH ION MASS:
ITS MASS/CHARGE.
1=H+, 2=HE++, AND 16=O+
NO DATA IS INCLUDED HERE FOR HE+, M/Q=4.
AN ESTIMATE OF THE PARTIAL DENSITY IN UNITS OF CM^-3, AND THE ONE SIGMA ERROR ESTIMATE OF THE DENSTIY CONSIDERING ONLY THE UNDERTAINTY INTRODUCED BY THE FINITE NUMBER OF COUNTS OBTAINED IN THE AVERAGING INTERVAL.
NOTES:
THE DENSITY IS OBTAINED BY ASSUMING GYROTROPY AND INTEGRATING THE OBSERVED FLUXES, EXCLUDING THE LOWEST ENERGY CHANNEL. THE NUMBER REPORTED IS THEN THE PARTIAL DENSITY FROM 200 EV/E TO 17 KEV/E.
NO DENSITIES ARE REPORTED FOR THE INTERVALS ON 83028 07:02 TO 10:04 AND 83085 01:32 TO 05:02 BECAUSE THE INSTRUMENT WAS IN A MODE THAT DID NOT SAMPLE THE ENTIRE ENERGY RANGE.

A SAMPLE RECORD:

```
DAY 83085   1: 2:54.9 TO   1: 6: 6.9 2 MASSES M/Q = 1, AND 16  PARTIAL DENSITIES 200 EV TO 17 KEV.
DENSITY   1.27E+00  4.37E+00 ERROR ESTIMATE   8.44E-03  3.53E-02
```

FORMAT INFORMATION FOR "FLUX_YYDDD.DAT" FILES FOR CDAW-8 (24/3/86)

FILE NAMING CONVENTION:

"YYDDD" CONTAINS THE YEAR AND DAY NUMBERS, FOR EXAMPLE
"83028" FOR INTERVAL "A".

FILE CONTENTS:

EACH FILE CONTAINS DATA FOR ONE CDAW INTERVAL.

WITHIN EACH FILE EACH RECORD CORRESPONDS TO ONE 192 SEC PERIOD.

EACH RECORD HAS A HEADER WITH:
THE YEAR-DAY NUMBER AND TIME OF THE START AND FINISH OF THE 192 SEC PERIOD.
THE NUMBER OF ION MASSES INCLUDED IN THIS RECORD AND THEIR MASS/CHARGE VALUES.
(THE NUMBER OF ION MASSES WILL BE BETWEEN 2 AND 4)
THE BACKGROUND, IN COUNTS/SAMPLE, AND ITS STANDARD DEVIATION.
(THE BACKGROUND HAS BEEN SUBTRACTED)

FOR EACH ION MASS:
ITS MASS/CHARGE.
FOR EACH ENERGY STEP: THE ION FLUX, IN (CM**2 SR S KEV)**-1, WITH ITS
STANDARD DEVIATION BELOW IT. (ARRANGED IN TWO ROWS, OF 7 AND OF 8 VALUES)
USUALLY 15 ENERGY STEPS ARE SAMPLED, IN CERTAIN MODES ONLY THE FIRST
7 ARE SAMPLED AND THE FLUXES FOR THE OTHER STEPS THEN APPEAR AS ZERO.

A BLANK LINE SEPARATES EACH RECORD.

THE ION ENERGIES, IN KEV AND IN THE SAME ARRANGEMENT AS THE ION FLUXES,
ARE AS FOLLOWS:

	0.062	0.231	0.433	0.647	0.874	1.116	1.646
2.246	2.923	3.689	5.029	6.638	9.300	12.700	17.043

A SAMPLE RECORD FOLLOWS:

```
DAY 81295 10:33:39 TO 81295 10:35:11      3 MASSES, M/Q =  1.0  2.0 16.0      BACKGROUND SUBTRACTED WAS  2.08E-(
      1.0  1.72E+04  0.00E+00  2.99E+03 -1.55E+03  0.00E+00  0.00E+00  1.69E+03
           5.72E+03  1.42E+03  2.59E+03  0.00E+00  1.60E+03  1.63E+03  2.39E+03
 3.38E+03  8.15E+03 -1.55E+03 -1.34E+03  2.27E+03  0.00E+00  6.84E+02  2.13E+03
 2.93E+03  6.91E+03  0.00E+00  0.00E+00  1.96E+03  8.79E+02  9.67E+02  1.19E+03
      2.0  1.17E+04  0.00E+00  3.04E+03 -1.52E+03 -1.52E+03  0.00E+00 -1.49E+03
           5.15E+03  1.52E+03  2.63E+03  0.00E+0   0.00E+00  1.52E+03  0.00E+00
-1.4__+03  2.80E+03 -1.34E+03  1.23E+03 -1.12E+03  0.00E+00 -8.45E+02  0.00E+00
 0.00E+00  4.20E+03  0.00E+00  1.74E+03  0.00E+00  8.74E+02  0.00E+00  7.29E+0
```

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

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

 TAPE NO.   1              FILE NO.   2
 RECORD   1                LENGTH   8192
                                   }!


S$USR1:[CDAWDATA.PETERSON]*.*;* MFA1:PETER     CDAWDATA          X 8
SDC::
.PETERSON]D83028.DAT;1  +      , W        .        / X 8   4   c          :
   1
   H
, and 16  Partial Densities 200 eV to 17 keV. A  Density   3.82E-01  3.58E-03 error estimate   4.57
E-03  2.20E-03 c  Day 83028  3:57:11.6 to   4: 0:13.6 2 Masses M/Q = 1, and 16  Partial Densities
200 eV to 17 keV. A  Density   3.59E-01  1.51E-02 error estimate   4.64E-03  2.43E-03 c  Day 83028
  4: 0:13.6 to   4: 3:23.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density
   4.97E-01  6.47E-03 error estimate   5.48E-03  2.10E-03 c  Day 83028   4: 3:23.6 to   4: 6:35.6 2
 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   1.11E+00  1.13E-02 error
estimate   7.94E-03  2.95E-03 c  Day 83028   4: 6:35.6 to   4: 9:48.1 2 Masses M/Q = 1, and 16  Par
tial Densities 200 eV to 17 keV. A  Density   9.29E-01  5.42E-02 error estimate   7.05E-03  5.06E-0
3 c  Day 83028   4: 9:48.1 to   4:12:47.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17
keV. A  Density   4.30E-01  8.27E-03 error estimate   5.25E-03  6.63E-03 c  Day 83028   4:12:47.6 t
o   4:15:59.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   3.99E-01
1.20E-01 error estimate   4.95E-03  8.18E-03 c  Day 83028   4:15:59.6 to   4:19:11.6 2 Masses M/Q =
 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   4.84E-01  1.77E-01 error estimate   5.
72E-03  1.12E-02 c  Day 83028   4:19:11.6 to   4:22:23.6 2 Masses M/Q = 1, and 16  Partial Densitie
s 200 eV to 17 keV. A  Density   4.66E-01  1.73E-01 error estimate   5.97E-03  1.42E-02 c  Day 8302
8   4:22:23.6 to   4:25:23.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Densi
ty   4.47E-01  3.48E-01 error estimate   6.44E-03  2.06E-02 c  Day 83028   4:25:23.6 to   4:28:23.6
 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV.
r estimate   6.55E-03  2.57E-02 c  Day 83028   4:28:23.6 to   4:31:35.6 2 Masses M/Q = 1, and 16  P
artial Densities 200 eV to 17 keV. A  Density   2.86E-01  3.33E-01 error estimate   6.95E-03  3.08E
-02 c  Day 83028   4:31:35.6 to   4:34:47.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 1
7 keV. A  Density   2.25E-01  3.50E-01 error estimate   7.45E-03  3.56E-02 c  Day 83028   4:34:47.6
 to   4:37:59.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   2.26E-01
  5.24E-01 error estimate   7.71E-03  3.81E-02 c  Day 83028   4:37:59.6 to   4:40:59.6 2 Masses M/Q
 = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   1.34E-01  2.78E-01 error estimate
7.92E-03  4.01E-02 c  Day 83028   4:40:59.6 to   4:44:11.6 2 Masses M/Q = 1, and 16  Partial Densit
ies 200 eV to 17 keV. A  Density   9.18E-02  4.83E-01 error estimate   7.10E-03  3.80E-02 c  Day 83
028   4:44:11.6 to   4:47:23.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Den
sity   3.98E-02  5.42E-01 error estimate   6.16E-03  3.52E-02 c  Day 83028   4:47:23.6 to   4:50:35
.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   1.88E-02  3.52E-01 er
ror estimate   4.86E-03  2.78E-02 c  Day 83028   4:50:35.6 to   4:51: 0.1 2 Masses M/Q = 1, and 16
 Partial Densities 200 eV to 17 keV. A  Density   7.93E-02  5.45E-01 error estimate   1.14E-02  6.4
7E-02 c  Day 83028   4:53: 1.6 to   4:56:11.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to
 17 keV. A  Density   8.00E-02  3.64E-01 error estimate   3.61E-03  1.94E-02 c  Day 83028   4:56:11
.6 to   4:59:23.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   8.44E-
02  4.05E-01 error estimate   3.41E-03  1.82E-02 c  Day 83028   4:59:23.6 to   5: 2:35.6 2 Masses M
/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   5.51E-02  4.65E-01 error estimate
  2.99E-03  1.70E-02 c  Day 83028   5: 2:35.7 to   5: 5:35.6 2 Masses M/Q = 1, and 16  Partial Dens
ities 200 eV to 17 keV. A  Density   2.43E-02  5.18E-01 error estimate   2.69E-03  1.72E-02 c  Day
83028   5: 5:35.7 to   5: 8:53.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  D
ensity   4.93E-03  3.70E-01 error estimate   2.44E-03  1.63E-02 c  Day 83028   5: 8:53.7 to   5:12:
 5.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density   6.64E-03  6.09E-01
error estimate   2.65E-03  1.75E-02 c  Day 83028   5:12: 5.7 to   5:15: 5.6 2 Masses M/Q = 1, and 1
6  Partial Densities 200 eV to 17 keV. A  Density   1.11E-02  4.63E-01 error estimate   3.23E-03  1
.97E-02 c  Day 83028   5:15: 5.7 to   5:18:17.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV
to 17 keV. A  Density  -1.15E-02  3.40E-01 error estimate   3.63E-03  2.17E-02 c  Day 83028   5:18:
17.7 to   5:21:29.6 2 Masses M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density  -1.93
E-03  3.14E-01 error estimate   4.57E-03  2.66E-02 c  Day 83028   5:21:29.7 to   5:24:41.6 2 Masses
 M/Q = 1, and 16  Partial Densities 200 eV to 17 keV. A  Density  -6.06E-03  6.44E-02 error estimat
```

D74071

c 3.37E-03 3.10E-02 c Day 83028 3:24:41.6 to 3:31:53.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -7.41E-03 1.25E-02 error estimate 5.79E-03 3.21E-02 c Day 83028 5:27:53.7 to 5:31: 5.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.56E-02 8.55E-02 error estimate 4.88E-03 2.69E-02 c Day 83028 5:31: 5.7 to 5:34:29.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 2.22E-02 9.95E-02 error estimate 3.35E-03 1.81E-02 c Day 83028 5:34:29.7 to 5:37:29.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -5.57E-03 2.12E-01 error estimate 2.00E-03 1.29E-02 c Day 83028 5:37:29.7 to 5:40:41.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 2.19E-03 4.30E-01 error estimate 1.31E-03 1.14E-02 c Day 83028 5:40:41.7 to 5:43:53.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -1.97E-03 2.72E-01 error estimate 9.73E-04 9.30E-03 c Day 83028 5:43:53.7 to 5:47: 5.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 4.59E-03 4.95E-02 error estimate 1.77E-03 1.02E-02 c Day 83028 5:47: 5.7 to 5:50:23.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 3.67E-01 5.01E-03 error estimate 4.39E-03 3.12E-03 c Day 83028 5:50:23.7 to 5:53:35.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.79E-01 1.24E-02 error estimate 3.13E-03 1.92E-03 c Day 83028 5:53:35.7 to 5:56:47.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.63E-01 3.16E-03 error estimate 2.71E-03 1.75E-03 c Day 83028 5:56:47.7 to 5:59:59.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 7.34E-02 2.32E-02 error estimate 2.05E-03 2.74E-03 c Day 83028 5:59:59.7 to 6: 3:11.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.30E-03 4.13E-03 error estimate 3.15E-04 2.77E-03 c Day 83028 6: 3:11.7 to 6: 6:23.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 2.33E-03 9.08E-03 error estimate 3.16E-04 1.33E-03 c Day 83028 6: 6:23.7 to

TAPE NO. 1 FILE NO. 2
RECORD 2 LENGTH 8192

ATA.PETERSONJD83028.DAT;1
c
= 1, and 16 Partial Densities 200 eV to 17 keV. A Density 8.13E-05 -4.14E-03 error estimate 4.63E-04 2.22E-03 c Day 83028 6: 9:35.7 to 6:12:35.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.66E-01 -6.12E-01 error estimate 1.47E-02 7.74E-02 c Day 83028 6:12:35.7 to 6:15:47.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.97E-01 -1.06E+00 error estimate 3.08E-02 1.68E-01 c Day 83028 6:15:47.7 to 6:18:59.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 7.94E-02 6.82E-01 error estimate 3.65E-02 2.50E-01 c Day 83028 6:18:59.7 to 6:22:11.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -1.32E-01 1.35E+00 error estimate 2.74E-02 1.54E-01 c Day 83028 6:22:11.7 to 6:25:11.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -6.19E-03 9.10E-01 error estimate 1.45E-02 8.19E-02 c Day 83028 6:25:11.7 to 6:28:23.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 2.89E-03 1.98E-01 error estimate 3.76E-03 2.23E-02 c Day 83028 6:28:23.7 to 6:31:35.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -7.89E-03 -2.94E-02 error estimate 1.77E-03 1.01E-02 c Day 83028 6:31:35.7 to 6:34:47.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density -1.64E-03 -9.64E-04 error estimate 1.88E-03 1.06E-02 c Day 83028 6:34:47.7 to 6:37:47.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.41E-02 4.05E-02 error estimate 3.35E-03 1.81E-02 c Day 83028 6:37:47.7 to 6:40:59.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.59E-03 5.10E-02 error estimate 4.95E-03 2.77E-02 c Day 83028 6:40:59.7 to 6:44:11.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 3.39E-02 1.70E-01 error estimate 4.61E-03 2.48E-02 c Day 83028 6:44:12.2 to 6:47:23.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 7.19E-02 2.29E-01 error estimate 3.21E-03 1.51E-02 c Day 83028 6:47:23.7 to 6:50:35.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.04E-01 3.52E-01 error estimate 2.74E-03 1.02E-02 c Day 83028 6:50:35.7 to 6:51: 0.1 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV. A Density 1.61E-01 3.34E-01 error estimate 8.83E-03 2.53E-02 c Day 83028 6:53: 9.7 to 6:56:17.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV.6A Density 3.41E-01 1.31E-01 error estimate 4.54E-03 6.19E-03 0c Day 83028 6:56:17.7 to 6:59:29.6 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV.6A Density 4.22E-01 7.05E-02 error estimate 5.03E-03 4.76E-03 0c Day 83028 6:59:29.7 to 7: 2:41.7 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV.6A Density 3.69E-01 4.84E-02 error estimate 7.77E-03 6.43E-03 0c Day 83028 10: 4:37.8 to 10: 6: 0.3 2 Masses M/Q = 1, and 16 Partial Densities 200 eV to 17 keV.6A Density 6.15E-01 7.24E-03 error estimate 8.05E-03 3.26E-03 0

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&z+y
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eVZz
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3+1ZN-%#=
it\t N i r
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ct<?
*.2#KK F-P
G56.b<>
:D8"#V!F
1.M3C
!>9D$;
?,0GC=B
' da+z :0
o |dut-gq +77 #"HX P1W H.E!;6\W

***** JOB DONE.
$WEO LPS

$$
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DUPE AND COMPARE OF GIN1 ONTO GOUT1

INPUT TAPE GIN1 ON HT1 ST
OUTPUT TAPE GOUT1 ON HT0

DATA INPUT DAC 3
OPTIONS USED: DUPE AND COMPARE # FILES 3 ERRORS/TAPE 10 DUMP

FILE	INPUT RECS.	DATA RECORDS INPUT	DATA RECORDS OUTPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#	WRITE ERRORS PERM	UNDEF.	OUPUT RETRIES #RECS.	TOTAL#
1	3	3	3	80	0	0	0	0	0	0	0	0	0	0
2	64	64	64	8192	0	0	0	0	0	0	0	0	0	0
3	2	2	2	80	0	0	0	0	0	0	0	0	0	0

DUPE OF GIN1 ONTO GOUT1 COMPLETED, # FILES COPIED 3 # PERMANENT READ ERRORS 0 # OUTPUT TAPES 1

TAPE	FILE	INPUT RECS.	DATA RECORDS INPUT	DATA RECORDS OUTPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
GIN1	1	3	3		80	0	0	0	0	0	0
GOUT1	1	3	3		80	0	0	0	0	0	0
GIN1	2	64	64		8192	0	0	0	0	0	0
GOUT1	2	64	64		8192	0	0	0	0	0	0
GIN1	3	2	2		80	0	0	0	0	0	0
GOUT1	3	2	2		80	0	0	0	0	0	0

JOB COMPLETED, # FILES COMPARED 3

START TIME 11/13/86 14:24:48 STOP TIME 11/13/86 14:25:04

$$
$ASS IN HT0
$NOP

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