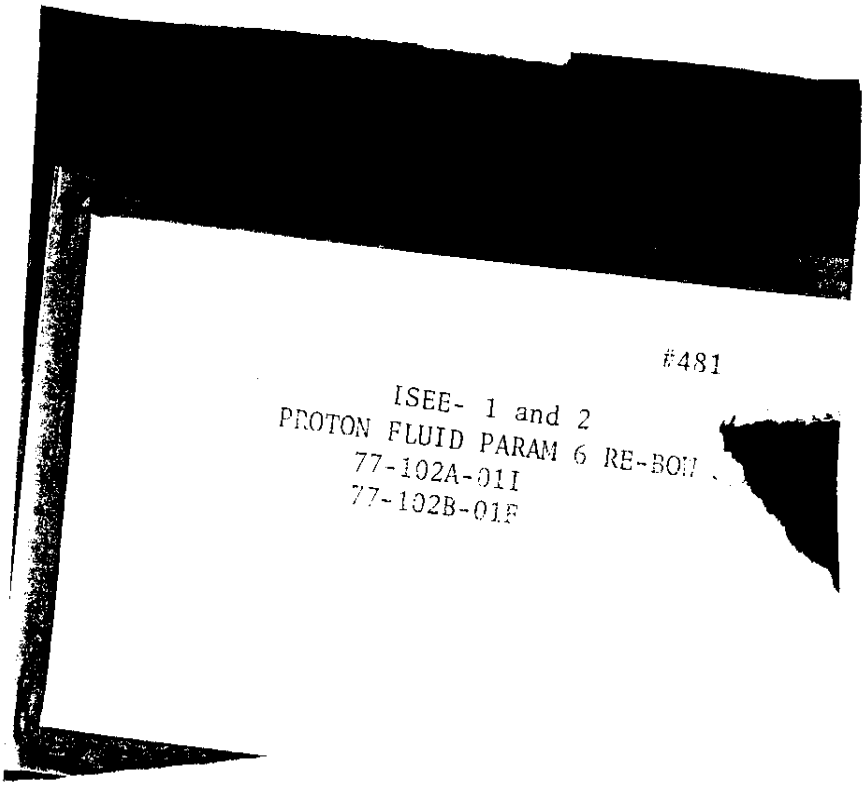

#481

ISEE- 1 and 2
PROTON FLUID PARAM 6 RE-BOI
77-102A-01I
77-102B-01F

Table of Contents

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ISEE-1

Proton Fluid Param 6 Re-Bow Shock

77-102A-01I SPMS-00149

This data set has been restored. There was originally 1 9-track, 1600 BPI tape written in BCD. There is one restored tape written in EBCDIC. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on a 360 computer. The DR and DS numbers along with the corresponding D number and the time span is as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR03701	DS03701	D042231	19	10/29/77 - 01/19/79

REQ. AGENT	RAND NO.	ACQ. AGENT
VPL SATC	V0066 V0354	HKH HKH

ISEE-1 & 2

PROTON FLUID PARAM 6 RE-BOW SHOCK

77-102A-01I

77-102B-01F

This data set catalog consists of 1 ISEE-1 and 1 ISEE-2 data tape. The tapes are 1600 BPI, 9 track, EBCDIC and both tapes contain 19 files of data. The tapes were created on an IBM 360 computer.

THE TIME SPAN IS AS FOLLOWS:

ISEE-1

D#	C#	TIME SPAN
D-42231	C-21321	10/29/77-1/19/79

ISEE-2

D-42232	C-21309	10/27/77-1/19/79

ISEE 2

PROTON FLUID PARAM. 6 RE-BOW SHOCK

77-102B-01F SPHE-00154

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 9-TRACK, 1600 BPI TAPE WRITTEN IN ~~BINARY~~ ebcdic. 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 WAS RESTORED ON THE MRS SYSTEM. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005280	DS005280	D042232	1-19	10/27/77 - 01/19/79

MAX-PLANCK-INSTITUT FÜR PHYSIK UND ASTROPHYSIK
INSTITUT FÜR EXTRATERRESTRISCHE PHYSIK
DR. N. SCKOPKE

Dr. J.L. Green
National Space Science Data Center /
World Data Center A for Rockets and Satellites
NASA Goddard Space Flight Center
Greenbelt, MD 20771
U. S. A.

8046 GARCHING
FED. REP. GERMANY
PHONE: 49 - 89 - 3299 - 870
TELEX: 05 215845 xter d
SPAN-Mail: MPE::NOS

July 7, 1986

Re: Data from the Los Alamos National Laboratory / Max-Planck-Institut Garching Fast Plasma Experiments on ISEE-1 and -2.

Dear Dr. Green,

In 1980, the two PI's of the Los Alamos / MPE Garching Fast Plasma Experiments on ISEE-1 and -2, S.J. Bame at LANL, and G. Paschmann at Garching, agreed that our group would prepare, and send to the NSSDC/WDC A, two tapes containing proton fluid parameters from regions essentially inside of the bow shock, and outside of 6 R_E geocentric distance, covering the period between launch of the two spacecraft (October, 1977), and mid-January, 1979, when the FPE on ISEE 1 failed.

Some time ago, we were informed by one of the users of this data set (N.U. Crooker of UCLA) about some inconsistency. This inconsistency turned out to result from a fatal error in our original production code which invalidated two of the parameters completely (the bulk flow components v_x and v_y).

We have now re-processed the entire data set, and enclose two tapes whose contents is to replace the original set. To allow an unambiguous distinction of the new data, we have slightly altered the file header record text; see the enclosed documents. Otherwise, and apart from the correction, the new data set has the same contents and format as the original one, albeit a slightly reduced UT coverage.

Please note that we have sent a copy of the corrected data set directly to UCLA so that this group need not be contacted by your office.

Finally, we should like to apologize for any inconvenience we might be causing.

Sincerely yours,

N. Sckopke

Norbert Sckopke

cc: S.J. Bame
G. Paschmann

encl.s

Tapes with proton fluid parameters from the LANL/MPE Fast Plasma Experiments (FPE) on ISEE-1 and -2

IMPORTANT NOTICE:

The enclosed two tapes are to replace two others originally supplied by our group to the NSSDC in 1980. These earlier tapes contain erroneous data and are to be destroyed.

Principal Investigators:

ISEE 1: S.J. Bame, MS D438, Los Alamos National Laboratory, Los Alamos, NM 87545, USA

ISEE 2: G. Paschmann, Max-Planck-Institut für Physik und Astrophysik, Institut für extraterrestrische Physik, 8046 Garching, W-Germany

Brief Description of the Data:

The data are provided at a temporal resolution of ≈ 60 seconds. They represent moments of individual two-dimensional (2D) distributions obtained in ≈ 3 or ≈ 6 seconds (see below). No time averaging over longer intervals is involved; instead, the temporal resolution of the full data set (≈ 3 / 6 / 12 s) was reduced to ≈ 60 s. The UT given indicates the start of the respective sampling interval. For a description of the instrument see Bame et al., 1978 (IEEE Transact. Geosci. Electron. GE-16, 216); remarks about the computation of the moments may be found in Paschmann et al., 1978 (Space Sci. Rev. 22, 717).

Data Selection:

(a) Particle Species: Although the FPE's measure both, positive ions and electrons, only the ion fluid parameters are given on the tapes. Electron parameters were excluded since they have not been corrected yet for photo electron effects.

Since the FPE involves an electrostatic analyzer, no differentiation between ions of different mass is possible (except under very favourable circumstances). The fluid parameters given on the tapes were computed under the assumption that all ions are protons.

(b) Coverage of Physical Space: The full set of FPE fluid parameters was inspected to select only data from the following region:

From $R \lesssim 6\ R_E$ out to (but excluding) the bow shock.

Exceptions: a few brief ($\lesssim$ 3 min) intervals of solar wind data may be present;

magnetosheath data of less than $\approx$ 1 hr duration in-between bow shock crossings may be missing.

The reasons for this selection are:

(i) Solar wind ion distributions are too cold to be adequately resolved by the FPE instruments (note that there are special solar-wind ion instruments on both ISEE-1 and -2);

(ii) Inside $R \approx 6\ R_E$ the FPE data would be contaminated by the energetic particle background. Usually, the instruments are turned off inside 6 R_E.

(c) UT Coverage: The tapes contain all the available data between initial turn-on of the instruments (end of October, 1977), and 19 January, 1979. On the enclosed, regenerated tapes the UT coverage is slightly lower than on the earlier tapes. For details see enclosure A.

Accuracy of the Data:

Efficiency variations due to gain changes have not been accounted for. They may be responsible for differences between the ISEE-1 and -2 density (for example) even for periods when the spacecraft separation was small. Uncertainties of the absolute values for the density are estimated to be better than $\pm$ 50%.

Description of the Tapes:

2 tapes, labelled on the outside

ISEE 1 / FPE 2D IONS	ISEE 2 / FPE 2D IONS
27 OCT 77 - 19 JAN 79	29 OCT 77 - 19 JAN 79
Re-generated SEPT 1985	Re-generated SEPT 1985

Each tape contains 19 no-label files.

Each file contains data from up to 10 ISEE orbits; see enclosure B or the file header records for the approximate UT coverage.

Organization of Files:

record # 1: file header record } same length, but different

records 2 ff: data records } READ statements, see below

Records:

formatted;
logical record length: 88 bytes
physical " " : 4400 bytes

File Header Records (and FORTRAN format):

```
KTEXT, IOS, IOE, IYRS, IDAYS, SECS, IYRE, IDAYE, SECE
12A4 , 2I4 ,     2(I5, I4, F7.0)
```

Data Records (and FORTRAN format):

```
IYR, IDAY, SEC, IORB, GSEX/Y/Z, LH, DEN, ENDEN, IFLAG, VX, VY, T
2I4 ,      F8.1,I4,   3F8.3,    I2, F8.3,E9.2,  I2,    2F7.1,  E9.2
```

Description of Items:

(a) File Header Record:

KTEXT = text to identify the data, cf. enclosure B *)

IOS, IOE = number of first and last ISEE orbit covered by this file

IYRS, IDAYS, SECS = year, day of year (day 1 = Jan 1), seconds of day } approx. UT of start of file

IYRE, IDAYE, SECE = } end of file

(b) Data Record:

IYR, IDAY, SEC = UT defining start of data sampling; end = UT+3(6) sec. (6 sec for ISEE-1 after Jan 27, 1978, during low rate of data transmission)

IORB = orbit number

GSEX, GSEY, GSEZ = spacecraft position in solar ecliptic coordinates (units = earth radii)

LH = flag indicating the energy range covered by the instrument;

LH=0: energy range = ≈50 eV to 20 keV per charge
LH=1: " " = ≈70 eV to 40 keV per charge

DEN = number density (units = cm^{-3})

ENDEN = energy density (erg cm^{-3})

IFLAG = 0 for DEN ≥ 0.1 cm^{-3}
= 1 for DEN < 0.1 cm^{-3}

For IFLAG = 1, errors in the following parameters (VX, VY, T) may be larger than normal because the counting statistics may be bad.

*) Note: A slightly different text has been chosen to distinguish the re-generated tapes for the earlier versions.

VX } = components of the 2D bulk velocity
VY } = in spacecraft coordinates (units = km s^{-1})

Note: Spacecraft coordinate axes normally differ by no more than a few degrees from the respective GSE axes.

Exception: before 1 Nov, 1977, VY (ISEE-2) ≈ VZ (GSE)

The 2D bulk velocity essentially represents the projection of the true velocity onto the symmetry plane of the analyzers, i.e. approximately (with the above exception) the ecliptic plane.

T = $(T_{xx} + T_{yy})/2.$ = average 2D temperature (units = Kelvin).

ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI

~~ISEE-1 FPE (LASL/MPE; S.J. BAME, P.I.) 2D IONS~~

DATA COVERAGE (%) FOR OCT 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
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15																									
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18																									
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21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30	100	98	95	82																				17	100
31																									75

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR NOV 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		92						42	98	98	100	100	95		67										
2																									
3																									
4		102	67					92	100	97	100	48													
5																		95	78	97	98	100	92	100	98
6			28	98	100	98	98								50	100	102	100	75	58	98				
7								100	100	98	58														
8				100	98	98	98																		
9												83		100	87	97	97	97	93	83					
10																									
11		2	58	100	50							92		100	97							60	102	100	100
12																									
13																									
14						67		100	97	100	100	100	100	100	100	32					33	98	100	100	75
15					92	95	42	92	100	97															
16		100	83	32													17	100	100	98	100	73	75	92	15
17																									
18			97	102	95	100	100	98	100	100		25	100	100	95	100	97	97	97	50					
19											100	98	98	50											
20		100	100	97	100	32																			
21											60	100	100	100	92	100	98	100	97	97	65		48	98	
22																									
23		100	78	100	100	100	50				92	102	98	98	55										
24																					77	98	100	100	98
25						50	100	100	100	100	100	95	98	43				8	100	98	95	100	98	100	17
26																									
27																									
28		60		17	100	100	98	100	98	98					45	100	88	102	100	98	90	28	98	100	100
29																									
30		100	98	100	100	100	98	17	97	32		42		100	98	100	100	100	100	28				98	

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR DEC 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									
2	97	100	97	75					80	100	98	100	100	102	98	100	92	100	100						98
3																									
4						25	100	98	98	98	100	90	50					43		98	100	100	100	100	98
5	102	98	98	100	100																				
6																									
7				68	98	97	100	98	100	92	100	100	102	100	48	98	98	62		40	100	98	100		
8															100	53	100	8							
9	98	98	100	100	95	100	50																	92	100
10	87	100	100	97	100	13							67	98	98	100	98	100		88	40	45	57	63	25
11																									
12	100	100	100	97	100	87	100	100	97	93	92	57	67	100	97	100	95						32	65	98
13																									
14	98	48						87	100	100	98	100	93	97	98					50	100	98	100	100	100
15	17	100	42													100	63	8		23	27	75	97	97	98
16	3			65	100	100	100	97	98	83	93	2										50	100	100	98
17	50	98	100	98	98	102	98	97	100	100	100	100	100	92	100		47	100		98	98	97	100	93	98
18					50	100	50		75	57	90	100	100	98	100	73									
19		23	100	100	97	93	100	93	95	98	98	100	100	100	73	100	100	102		98	98	100			
20																100	100	8							
21	100	98	100	102	8	95	48													33	100	93	87	100	97
22	95	100	100	98	95	95	97	97	95	100	75	88	98	100	100	92	97	95		98	98	50			47
23										67	98	98													
24	100	100	100	100	100	98	98	100	100	100	50		98	97	95	52						35	100	98	98
25																									
26	100	50					98	95	100	100	100	100	92	97	100	102	100	100				92	100	100	100
27	92	100	58	100	65												33	102				82	43	35	12
28	100	73	25	100	100	97	100	100	100	98	50					88	95	100	100	95	88		70	90	93
29	100	98	90	95	98	98	100	58											98	97	93		97	37	78
30									65	102	100	100	100	100	100	100	100	100	100	100					
31	53	98	97	100	102	98	98	100	100	100	102	100	93	98	98	98	100	100	100	100	98		100	100	95

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR JAN 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		52	97	100	100	8	25	25												17	80	40	65	97	97
2		98	98	17	40	100	57				13	100	100	100	102	98	100	100	100	100	100	100	100	100	97
3		100	100	100	100	97	100	100	100	100	100	100	100	100	100	100	100	100	100	98	100	50			100
4		98	100	98	98	100	97	100	97	95	92	100	100	100	100	93					25	98	97	100	98
5		100	102	100	100	98	100	100	100	100	97	93	100	100	100	100	85	100	100	100	100	72	47	100	100
6		100			50	98	27		67	100	93	98	98	102	100	100	95	82	90	82	98	100	67	27	7
7						37	98	100	98	100	87				53	100	98	100	100	100	98	102	77	98	100
8		98	100	100	100	100	33							42	100	33	47	100	98	98	100	98	98	97	98
9		98	100	100	100	100	98	98	98	50					8	100	100	100	98	90	63	100	95	100	100
10		100	87	97	95	88	100	92	100	98	100	100	100	100	100	98	98	100	100	100	97	93	100	85	15
11		100	75																						
12																									
13																									
14																									
15		58	87	97	98	100	100	100	100	100	102	100	100	102	98	100	100	100	100	100	100	100	100	98	100
16		27	100	87	98	100	102	100	98	98	100	100	98	93						95	100	100	100	98	77
17		100	92	92	93	100	100	98	98	100	100	100	100	100	92	100	100	98	47	95	92	100	98	100	100
18		98	100	100	97	93	98	100	98	95	98	95	100	98	98	100	100	97	100	100	97	100	100	95	10
19					60	83	92	83	75	92	100	98	100	97	97	100	100	93	93	98	100	93	58	35	100
20		100	77	100	100	100	98	100	95	102	100	100	100	90	100	100	100	98	98	100	100	98	97	100	100
21		82	63	100	98	95	97	100	50					27	98	98	98	97	97	98	102	98	100	92	100
22		100	100	100	100	98	100	100	100	98	102	95	98	98	102	100	100	100	100	100	100	97	100	100	87
23		100	100	100	100	100	100	98	100	102	100	98	100	100	100	100	100	75						48	100
24		98	100	97	100	98	100	100	102	98	100	102	92	100	100	100	97	98	95	90	97	98	98	98	47
25		48	90	93	97	98	100	100	98	100	100	100	100	100	102	100	98	90	88	97	88	93	98	63	12
26		98	27						57	100	100	100	97	98	100	100	98	97	100	100	98	92	22	100	100
27		100	98	95	100	102	97	100	93	100	98	102	100	100	98	100	100	93	100	95	100	100	98	98	63
28		77	98	98	92	93	82	90	90	95	100	98	87	52				12	97	93	88	92	93	93	100
29		97	102	95	97	98	100	97	97	97	100	98	100	100	100	98	95	73	88	93	97	95	92	100	100
30		100	100	100	100	87	100	93	100	100	102	98	100	98	100	100	100	100	100	100	100	100	87		
31				78		5	98	100	100	100	37	100	100	100	100	100	100	100	98	100	97	100	97	90	100

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR FEB 1978

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	102	87	30	53	100	100	100	98	98	100	102	100	100	100	98	100	100	100	100	90	98	90	93	28	
2	98	97	98	83	72	95						38	100	98	100	97	100	100	100	80	100	100	98	102	
3	100	98	100	100	100	2	45	100	100	100	100	100	100	100	100	100	100	100	102	97	85	95	100	97	
4	97	102	100	100	98	100	102	100	100	100	100	100	100	100	100	52							87	98	
5	100	98	102	98	98	97	100	98	98	100	98	98	100	100	98	100	100	100	42	55	100	98	90	92	
6	82	93	98	98	100	98	97	98	98	100	100	100	100	98	100	98	100	98	100	98	90	98	100	97	
7							60	98	100	88	102	95	100	100	100	98	100	100	97	97			17	100	
8	97	100	97	97	87	98	100	100	100	98	95	100	100	100	100	88	100	100	100	100	98	98	100	100	
9	100	98	95	100	97	98	95	98	97	100	100						50	100	100	100	100	98	100	97	
10	87	95	98	100	100	98	102	98	98	100	98	100	100	100	98	100	100	87	100	100	100	100	100	98	
11	85	82	97	75	100	63		52	100	100	70		57	100	100	98	98	98	98	100	73				
12																									
13																									
14																									
15																									
16																									
17	83	98	95	100	100	100	68	30	92	97	97	7	57	98	27	78	100	100	100	100	95	30		83	
18	63	97	100	92				100	98	100	100	100	100	98	98	100	100	100	100	100	95	93	98	42	
19																						97	95	98	
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																				52	143	37	167	165	167

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR MAR 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1		167	128	100	80	98	48	80	100	98	100	100	100	100	100	98	63	18	18	80	92	70	77	83	72	
2		97	100	98	93	93	88	98	98	100	98	100	100	100	100	100	68	60		22	73	72	77	42	47	
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																			42	8	48	27	82	68	68	
13		38	50	93	97	93	88	88	93	75	60	90	95	92	78	90	93	48	28	2	25	25	32	87	60	
14			30	95	92	97	90	93	90	88	53	92	92	90	90	95	80	92	92	88	85	90	93	33		
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																		38	20	82	93		8	95	100	
25		100	100	100	98	100	97	95	92	98	100	95	65		63	100	100	95	93	93	23	90	77	98	98	
26		98	100	100	98	100	100	98	100	100	100	100	100	100	100	98	98	98	40		7	95	43			
27																			68	100	100	100	100	100	98	
28		100	83																							
29																			18	100	100	100	97	100	98	
30		100	100	100	100	100	100	100	100	100	100	100	100	98	98	98	100	98	95	97	97	98	100	100	100	
31		100	100	100	98	100	100	100	100	75																

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR APR 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1					50	98	100	100	100	100	100	100	98	100	100	98	100	100	100	100	8	92	70	32	
2		73	100	98	102	98	100	100	100	100	100	27	100	98	98	100	97	100	98	97					
3														17	95	98	97	100	98	98	100	100	100	100	95
4		100	100	100	100	100	100	100	100	100	98	100	100	98	100	100	97	97	93	90	100	98	100	100	100
5		92																28	98	100	100	85	100	98	100
6		100	100	98	98	100	98	98	100	100	97	100	100	87	92	97	98	98	70	100	100	100	85	95	100
7		100	100	100	100	100	100	98	95	100	100	77	58	100	100	100	100	100	100	98	17				
8									42	100	100	100	100	100	100	100	100	100			95	100	95	100	93
9		100	100	100	98	100	100	100	100	98	100	100	15	95	93	100	98	43				85	92	52	
10																		7	100	100	98	98	35	58	92
11		100	100	98	98	102	100	100	98	100	100	100	98	100	97	100	100	100	98	100	72	100	98	98	95
12		97	88	98	98	100	98	100	98	28															
13				57	100	98	100	100	97	98	100	92	100	85	92	93	77	100	100	98	100	100	100	97	97
14		100	98	97	58	50	100	97	92	50	100	100	100	98	98	58	97	100	63						
15														17	100	100	98	98	100	100	100	98	100	82	100
16		72	100	77		80	100	100	100	100	100	100	102	88	90	88	98	100	100	100	92	100	95	100	100
17		100	100	98	3											92	8	95	55	87	97	100	98	82	98
18		68	65	53	82	98	97	75	73	93	93	97	100	98	100	100	100	100	50	73	85	98	80	100	100
19		98	100	98	100	98	60	100	97	98	97	97	98	98	98	43	100	23	97	48					
20								80	98	100	100	100	100	98	102	100	98	63	93	100	100	15	92	100	100
21		100	100	100	100	100	100	100	100	100	100	100	37	100	98	100	100	97	100	43	33	100	100	25	25
22		100	67														27	97	100	100	100	100	87	97	82
23		67	100	88	100	80	67	100	100	100	100	100	100	100	100	100	100	97	67	67	100	100	100	100	100
24		100	100	100	100	100	100	100	13																
25			82	98	100	100	100	100	100	95	98	98	82	100	95	100	98	88	100	98	100	100	98	102	97
26		100	100	95	98	85	100	100	100	100	48	42	100	100	95										
27																				82	98	100	98	100	100
28		100	100	100	88	100	100	20	27	100	80	100	100	102	95	55		63	63	22	102	100	98	98	97
29		98	58											8	100	98	100	98	100	100	58	83	100	98	98
30		78	98	92	78	100	40	93	70	98	90	95	93	97	95	95	98	87	95	100	100	100	77	100	98

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR MAY 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		100	100	100	98	97	100	70	30	27	98	97	97	93	98	93	97	27	57						
2							77	100	98	98	97	98	98	57	98	85	88	25	92	92	73			102	100
3		100	95	100	100	98	100	57	40	18	98	98	53	27	100	98	97	98	73		85	57			
4																7			42	100	100	100	98	100	98
5		98	100	100	98	100	97	100	33	87	98	100	100	98	100	23	63	42		55	100	98	100	100	100
6		95	87	100	88	100	95																		10
7		100	98	100	100	100	100	95	100	97	100	98	100	100	100	63	60	3	2	98	100	100	27	100	82
8		42	68	98	98	100	95	88	98	100	80	88	100	62	40										
9											80	100	100	100	100	97			43	102	100	97	98	100	98
10		93	100	100	100	98	100	98	100	92	95	92	98	100	88	100	52			52	95	97	100	102	98
11		33																						23	100
12		97	40	92	93	98	100	98	100	100	98	100	93	100	98	100	40								10
13		65	83	97	95	52	8	98	100	100	95														
14						83	92	97	100	100	95	85	98	100	98	100	95	97	43						
15																									
16															43	100	98	55	70	67	77	82	67	58	58
17		98	100	82	98	98	80	98	40	32	78	98	100	100	93	100	100	100	98	100	95	87	95	100	77
18			20	92	75	62																		25	50
19		55	100	100	100	100	100	100	100	97	100	100	100	100	98	100	93	65	100	100	95	98	100	100	100
20		93	47		72	98	60	100	97	98	100	100	100	100	88										
21										90	98	100	92	93	98	82	100	100	100	100	100	100	100	92	83
22		100	100	98	100	100	100	100	88	100	100	100	100	98	100	100	98	100	68	98	67	47	100	98	32
23												3	92	97	95	88	28	98	100	82	47	93	97	98	98
24		98	100	98	98	97	98	100	92	102	97	82	100	98	93	97	100	97	98	95	90	100	98	100	100
25		10	88	98	100	100	100	77	72	93	100	97	95	98	98	10									
26				30	100	98	100	100	100	100	100	100	100	98	93	100	100	30	92	98	98	98	100	102	100
27		98	100	100	100	95	102	100	100	100	97	100	95	100	98	100	95	100	83	12					
28														73	100	100	100	100	100	100	100	100	100	98	100
29		98	100	100	100	100	100	100	100	100	100	100	100	100	90	92	100	100	100	98	100	100	98	95	100
30		98	102	100	47																		65	100	97
31		98	100	100	98	100	98	100	98	97	100	98	100	98	72	100	100	73	100	100	100	100	98	100	100

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR JUN 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	98	100	100	100	100	100	100	100	100	100	98	100	100	57											
2							23	100	100	100	93	97	97	97	50										
3	83	100	100	67	100	100	100	100	98	100	100	100	97	98	97					100	100		100	67	100
4											65	100	100	97	95		88	60	102	100	98	98	100	23	
5	100	100	98	98	97	100	100	98	100	85	95	100	100	100	97		87	100	100	100	98	100	98	97	100
6	100	100	100	100	97	88	92	67	100	28	38	78	95	68			100	83	100	98	100	100	97	97	98
7	100	100	100	100	100	98	100	100	100	98	97	100	100	75	83										
8	97	100	100	100	100	98	100	58			92	100	100	97	100		93	52				42	98	100	100
9					93	102	100	98	53	100	100	100	100	98			68	57	3			87	100	100	100
10	100	98	98	100	100	100	100	93	98	98	100	97	100	100	45		83	100	100			70	95	100	
11	100	100	100	100	98	100	78										60	100	100	100	102	98	100	98	98
12	100	98	100	100	98	98	100	70	77						50					100	100	100	100	100	100
13	100	100	100	100	100	98	100	100	98			2	72	70	83	37	3	93	100	100	100	100	97	100	100
14	100	100	100	98	100	92	98	97	92	100	100	100	100	92	73		95	100	100	100	100	100	100	100	100
15	98	100	93	100	98	68	77	30		95	97	93	97	67										23	100
16	80	27	97							5	33	72	93	92	77		97	100	100	100	100	100	100	100	100
17	100	100	100														50	100	98	98	78	100	97	98	100
18	100	100	102	20	10	92	100	100	97	92	98	98	48	27	37		72	100	98						
19	100	100	100	100	97	98	98	100	73			50	98	100	68		100	98	100	98	100	65	98	98	100
20	48	100	88	100	92	42	100	100	100	100	100	98	97							100	98	97	100	100	100
21			33	83	47	98	77	100	98	100	100	98	90	65	62		100	25	100	72	100	93	98	77	100
22	100	98	100	97	55								100	67	60		42	82	100	100	100	100	100	100	100
23	98	100	102	100	82	97	100	67	102	100	95	98	55	77	100					80	73	100	100	10	
24	100	100	100	50	100	100	98	97	98	98	98	77	98	93	98		37								
25	83	98	100	97	100	100	40	50						50	100		53	72	87	70	35	95	100	100	77
26	100	100		98	102	98	100	98	100	100	100	100	100	88	100		77	33	95	98	98	98	100	100	100
27		93	98				93	88	97	97	97	95	100	98	100		100	93	100	65	88	100	100	100	100
28	60	92		98	75	102	98	98	75								30			100	100	100	100	100	100
29	72	100	100	98	93	48		77	92				88	100	70	100	98	100					85	98	98
30	58	100	100	98			27	98	100	100	100	98	97	100	93	100	18	97		93	100	95	30	98	98
							82	97	98	35	35	78	58	57	98	95	92	87		98	100	97	93	3	35
							23	100	95	93	98	48			35	97	68	98					93	82	100
										43							18			48	68	97	98	72	65
																				32	98	100	82		30

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR JUL 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	100	75	8	100	97	95	93	100	98	97	98	95	100	100	97	100	68		47	98	98	93	100	77	
2	2		37	98	98	57	92	98	98	100	98	97	100	100	88	18	60			98	83				
3			62	98	98	87	8	62	100	100	8														
4							85	100	33						23	88	95	100	30		85	100	100	100	98
5	100	97	98	95	100	83						27	53	25	93	98	100	95	55	48			98	22	38
6			17	67	100	98	17		33	100	98	93	97	48								50	100	100	27
7	98	100	100	100	100	90	98	100	98	100	100	97	87		8							75	100	100	100
8	42	98	98	100	18	73	92	55	90	87	88	45													
9						67	100	95	100	100	98	98	97	100	60		55				40	100	100	8	
10						42	98	93	97	90	55	100	50	32	97		100	100	97	58	35	98	60		
11	2	98	98	38	28	97	90			70	90	73	38	28			3	72	5	98	25		63	12	
12						25	97	100	85	90					28		82		83	95	25	38	100	100	67
13	17																		47	93	60		82	63	40
14				65	97	95	100	100	87	83	80	87	83	73			55	97	15	47	75				
15	80	100	100	25	88	100	100	98	100	98	37				62			92	100	38	13	98	70	38	2
16	100	100	100	88	100	100	98	97	93	72	95	92	100	23	2		60	75			52	33	100	77	
17	25	100	98	100							100	100	82	55	43		98	70	67	100	75	42	100	33	
18																						100	42		
19	67	100	100	100	100	100	100	100	100	100	97	100	98	100	38					12	60		92	73	97
20	98	98	100	100	100	97	100	93	98	100	85	95	70	100	75			5	78	83		50	95	87	100
21	100	100	100	100	95	100	65		35	98	98	98	70	100	75				92	52		83	85	83	
22										10	100	100	60					3	7	10	5	23	22	38	8
23						90	98	90	90	93	88	93	87	87	100		95	98	50	80	27	78	97	55	22
24	98	100	100	100	93	100	92	92	100	8				53	52		75	92		70	15	98	100	32	100
25	90	50			33	100	98	95	85	90	100	100	40	100	88		70	38	87		42	98	100	92	
26	100	95	102	98	97	100	90	82	97	100	98	83	97	38	98		98	92	100						83
27	78	100	97	100	100	100	100	100	90																
28														17	52		100	100	100	102	100	100	93	97	97
29	98	100	92						33	62	100	98	98	95	75										
30										33	100	97	100	100	100		100	100	100	100	97	100	100	100	100
31	98	100	100	98	100	100	100	100	100	100	48	83	90	13					50	100	100	98	100	98	100

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR AUG 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		100	8																						
2				48	78	100	100	100	98	100	95	100	98	62			75	100	100	100	100	95			
3				18	100	95														73	98	98	63	95	95
4																									
5		80	95	98	97	98	93	100	78					7	100	100	102	97	92						
6																									
7					50	100	100	95	98	20	50	97	68	53	77	98	50								92
8		100	100	98	100	98	60	67																	
9													12	102	100	100	98	100	98	88	100	33	38	98	100
10		93							37	58				62	25										
11																									
12					8	100	100	98	100	98	93	93										65	62	90	98
13		100																							
14												33	100	95	78	100	100	98	100	93	88	28			
15			33	102	98	100	55	65	57	100	65	100	100	40											
16																						58	32	73	100
17		75	100	73	72	33	97						25	87	97	52	98	97	85						
18																						63	100	100	100
19				65	100	100	100	100	100	98	98	98	75	50	100										
20		98	87	98	50																				
21																		85	98	98	100	98	93	100	100
22		50						100	100	100	98	100	47												
23																									
24			50	100	100	100	98	90	100	98	67	70					80	100	100	98	45				
25																									
26										48	93	42			3	20	67	97	93	52	100	3			
27		20	73	98	25																	92	100	100	100
28																									
29		100	100	97	97	98	38					62	100	100	100	100	17								
30																									
31									75	97	98	93	12	100							93	100	98	100	100

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR SEP 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	100	25																								
2																										
3						27		42	97	100	98	37						92	100	100	100	100	98	50		
4																										
5	50	100	97		100	100	95	95	100	100	50				2	87	92	97	98	78						
6																										
7																										
8	80	100	90		37	73	52						8	43	73	57	42	92	50							
9																										
10	85	98	98		72						37	82	68	77	22									93	98	
11																										
12									63	93	32															
13	67	100	80																	88	20	98	88	77	98	
14																										
15					7	100	100	67	98	97	40						92	98	98	98	100	98	100	98			
16																										
17		33	98		97	82	92	93	97	28				20	100	97	97	100	100	17						
18																										
19										50					52	98	25	5	33					90	88	
20		75	100		98	67																				
21																										
22	3/5	97	95						27	98	77	100	95	97	17						~~58~~	~~100~~	~~73~~	~~97~~	~~95~~	
23																										
24																										
25																										
26																										
27			37		100	80	80	15																		
28																										
29		67	97			48	72	67	15				50	100	100	92	97	98	100	100	68	75	93	98	98	
30	55	98	100		22																					

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR OCT 1978

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									
2	100	100	97	8																				48	98
3																									
4	100	50																		73	100	100	68	100	98
5														65	25										
6																									
7						73	98	93	67	22							28	72	100	98	97	97	100	83	
8																									
9		95	100	92	53	33												50	98	100	100				
10																									
11	100	37	97	100	43	98		3				27	100	100	92										40
12																	100	18							
13																									
14	92	72										43		48	95	93					20	78	63	65	52
15																									
16	32																					38	100	62	97
17									18	100	3	67	13												
18																									
19								25	83	22	90	23				25	98	25							
20																									
21	87	88	93	80	35	62			57	8															
22																									
23	40	78	63																						
24											65	35	65	65	97	83	13	42	40				50	75	83
25																									
26	80	25											53	100	98	27				37	98	97	50	100	100
27																									
28																									
29					47	63	45	80	100	97	98	98	48							73	35	18	90	93	63
30	42	75	55	62	90	97	100	17																	
31	100	100	25	97															82	98	100	100	98	67	90

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR NOV 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1																										
2			58		18		25						17	100	50	100	100	98	50					13	62	
3																										
4		42	62	95	80					65	48	15	80	102	100	100	83	100	98	92					67	
5																										
6																										
7		100	65	75					32	100	100	100	100					47		95	35	12	43	37	100	
8																										
9						60	50	48	53	100	100	93		5						50	47		80			
10																										
11																										
12														70	98	5	2	100	100	50						
13									47	100	78				82											
14		63		3	100	100			60	100	100	100	8			62	100	60	100	25				95	97	
15		67	62				98	2				3	43	75	52	18	100	98	98	100	100	100	72	20	98	
16		98	85	10					32	27	100	100	100	97	100		25	98					67	73	98	
17																										
18																										
19																		32	35	100	87			2	58	
20																										
21																				48	100	82	28			
22			52		60	42	98	92	18	100	100	3	93	42												
23		67	42	98	87		43	65																		
24													83	100	100	100	38		92	100	3		77	45	77	
25													100	77		93	97	2				43	47	67	100	
26		77			72	100	100	100	58																	
27																										
28		33	47					68		83	100	100	95	77						33	75	50	98	98	23	
29																			13	92						
30					20	40	42	80	100	57	50						73	15	87	40	83	100	55				

ISEE-1 FPE (LASL/MPE, S.J. BAME, P.I.) 28 ICNS

DATA COVERAGE (%) FOR DEC 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1		22																								
2																	12	100	100	100						
3				75	42	35			97	100	100	100	100	25												
4																										
5			43			95					10	85	12		45		95	68		37		93	33			
6																										
7									50	17		23	100	98	100							17	53	98	17	
8		98	100	70				100	82	12	25															
9																	17	53	53	63	10	42			52	
10		18				17	63	98			28	50	100	100	100	100	53	90	50	75						
11																										
12				57	15		98	100	100	25	55				2	95	98	100	100	57	97	100	95	82		
13										102	98	98	100													
14																67	22									
15					100	100	100	100	102	100	92	48	100	97	75											
16																								33	98	
17		100	73	92	100	13					87	10	12	100	100	100	102	100	62	97	75					
18			90	33																						
19								92	100	98	102	100	100	50						92	100	98	30	87	23	
20			77			92	100	98	100	88																
21															25	100	100	97	100	100	100	98	98	83		
22					65	27	75	100	98	98	80			95	100	100	98	102	98	98	100	97	100	8		
23																					97	98	98	98	100	
24		100	93	73	12	53	100	83	10						98	98	100	80	102	98	32	37	97	98	95	
25		8		72	100	48																				
26								83	100	25	50	98	100	100	100	100	98	50							12	
27		100	87	8	98	98	100	98	100	100	100	100	100	100	100	68	100	98	100	100	98	100	98	92	95	
28		58				17	98	100	27									50	98	97	98	100	98	80	48	
29		32	70	15					23	77	100	98	98	100	100	102	100	97	100	98	100	100	100	100	100	
30		73	20	87	100	75																			57	
31		97	30	53	100	98	95	93	98	100	98	100	98	27				27	75	95	57	45	98	62	88	

ISEE-1 FPE (LASL/MPE; S.J. BAME, P.I.) 2D IONS

DATA COVERAGE (%) FOR JAN 1979

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1			62	100	95	98	98	97	98	97	98	98	100	100	100	98	100	100	93	97	100	100	40	85	97
2	100	100	98		100	100	100	100	100	88	100	58	75	100	90	92	97	100	100	97	98	100	63		
3			88		98	98	100	35	82	92	82	93	77	100	100	98	100	100	97	97	98	98	73		
4	60	73	97		98	100	78	100	100	98	98	100	100	100	42		67	100	97	100	97	98	98	100	98
5	98	85	17		72	93	100	98					55	100	100	100	100	98	97	95	100	93	98	98	100
6	97	100	35			90	97	80												48	100	38			
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19	100	97	77	100	100	30	100	100	98	100	97	100	100	60	70			10		100	87	55	98	25	90
20															65		7								
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI

~~ISEE 2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS~~

DATA COVERAGE (%) FOR OCT 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27					98	98	2	78						35	33	68	53	30							
28																									
29															40	98	97	50					48	97	
30		3	58	43	83																				
31																									

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR NOV 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									
2																									
3								27	100	37								58	100	100	97	98	85	100	98
4	92	67																							
5															48	100	95	60	100	100	50				
6					58	98	75	98	83																
7																									
8			95		100	100	73					35	100	67	82	85	43	98	93	75				17	95
9																									
10													73	95	100	95	50					97	95	100	100
11	98	100	97		50																				
12																									
13	50					67		100	98	97	95	78	78	98	100	73					32	100	98	100	97
14																									
15						27		97	98	95						35	100	100	90	102	97	100	93	90	
16	23	50																							
17																									
18	48	98	100	100	97	98		97	95	97	57	52	90	42	98	85	100	98	60	50					
19														100	25										
20			97	95							63	100	100	93	98	98	95	100	97	100	75			67	97
21																									
22																									
23	100	3		33	100	50					97	98	100	100	98	47					78	97	100	98	100
24																									
25						17	100	98	100	100	100	102	100	33				17	98	100	102	98	100	100	17
26		98	98	8																					
27						100	98	12		70	17														
28															53	100	98	98	98	98	98	98	100	97	83
29																									
30	100	95	33	100	95	100		25	100	42			33	98	98	98	98	87	98					20	98

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR DEC 1977 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									98
2	98	98	97	83					88		100	95	100	97	97	95	90	97	98	95	8				
3																									
4									50	100	100	100	100	92					52	100	95	93	97	98	98
5	87	100	37	70	100	8																			
6																42	100	100	100	100	97	95	47		
7			12	98	100	100	100	100	87	100	100	100	100	98	95	100	100	8							
8																								98	100
9	100	100	97	100	97	70								15	53	100	100	97	42	48	52	60	68	72	27
10	95	100	102	100	92	13																			
11														72	100	100	100	97					3	98	100
12	100	98	100	100	100	87	98	102	100	100	100	67													
13																				50	100	87	75	98	98
14	92	100					8	98	100	92	97	100	100	100	100	78	25	93	100	95	100	100	98	23
15	43	100	32																		50	100	100	98	
16	57			65	97	93	100	100	100	95	95							72	100	98	100	100	100	97	100
17	97	100	98	93	93	98	100	100	100	100	100	100	97	100	100	62									
18					25	97	100	58			92	100	98	98	100	100	100	100	98	100	48				
19			100	102	100	85	100	93	98	100	100	100	100	100	77	100	100	7							
20																	67	42	33	100	77	83	98	97	
21	95	98	98	100	90	97	33					97	97	100	100	92	98	98	95	98	92	92	92	88	
22	95	68	42	102	33	100	100	100	92	97	75														
23										67	98	100	93	95	97	50						100	100	97	
24	98	95	98	98	98	100	100	63	78	100	50														
25																					82	100	100	100	
26	100	40				27	98	98	97	98	100	98	60	90	100	97	98	100	8				72	100	
27	20			32	83												28	98	100	100	95	82	90	100	
28	98	73	30	100	97	100	100	98	98	97	15					97	100	98	98	100	87	97	78		
29		17	95	100	100	100	98	50																	
30									67	100	102	97	100	98	97	100	100	100	97	47					
31	63	100	98	100	100	100	100	100	100	98	102	100	100	100	100	97	100	98	100	98	98	98	100	98	

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR JAN 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	92	98	100	98																17	88	30	58	100	100
2	100	97	97	35	38	40				23	98	100	100	100	98	90	98	93	98	95	100	100	98	97	
3	98	98	100	95	100	100	100	98	97	100	100	100	95	100	100	98	98	102	100	100	45		47	97	
4	93	82	100	100	97	100	98	98	97	100	98	98	48	97	50					83	100	97	100	100	
5	100	100	100	98	98	97	98	100	97	98	95	98	102	100	97	87	100	98	100	100	50				
6								67	97	100	100	100	100	97	98	97	98	90	77	43	100	45			
7					52	100	95	100	100	88				52	98	100	98	98	98	100	100	100	97	100	
8	97	100	100	98	100	33										62	100	100	97	100	98	98	98	98	
9	100	98	93	98	100	100	97	80						20	100	98	98	97	95	62	57	98	62	12	
10	97	98	97	100	100	100	100	100	95	100	100	100	98	100	100	98	100	98	100	100	100	100	88	17	
11	100	100	95	100	100	100	95	98	100	100	97	100	100	98	100	100	102	95						50	
12	98	98	88	100	98	100	100	100	100	100	100	98	102	100	98	100	100	100	98	93	97	102	67	40	
13	97	100	100	98	100	100	98	68	98	100	100	100	97	98	98	97	100	100	97	98	93	100	98	97	
14	100	100	65						47	68		65	98	100	100	98	98	98	98	98	100	100	102	98	
15	98	100	98	98	97	100	100	100	98	100	98	100	100	98	102	98	98	100	98	98	100	100	98	98	
16	100	97	100	98	100	100	100	95	98	100	98	95	50					8	40	98	100	100	98	52	
17	97	97	100	98	98	83	92	98	100	97	100	100	100	98	100	95	100	98	100	93	97	97	100	102	
18	97	98	100	100	95	98	98	98	98	100	95	100	97	98	100	98	100	98	98	93	12	95			
19				72	100	100	80	90	100	100	98	100	97	97	98	95	88	97	98	100	98	60	67	98	
20	100	100	98	100	98	97	90	100	100	100	98	100	90	100	100	97	98	98	100	98	92	100	100	100	
21	82	67	98	100	98	100	100						38	97	95	98	100	100	100	98	98	100	100	95	
22	100	98	100	97	98	100	100	100	100	100	93	100	100	100	100	98	100	100	100	100	98	98	100	60	
23	100	100	100	100	97	100	100	102	98	100	98	100	97	100	100	100	102						55	100	
24	100	97	100	100	98	98	100	100	100	98	100	90	97	100	98	100	48	70	98	97	98	98	98	100	
25	102	98	98	102	100	100	100	98	100	97	98	100	100	100	93	83	100	93	100	93	98	97	65	12	
26	98	73						40	100	82	85	87	87	100	98	97	100	100	98	98	93	28	98	100	
27	98	88	98	100	100	100	98	85	48	97	100	100	100	98	97	100	97	97	93	100	100	100	97	98	
28	98	98	95	73	97	98	98	98	100	83	95	100	35				33	100	98	87	95	100	100	100	
29	93	92	98	97	82			70	98	98	100	98	100	98	98	97	80	78	72	97	92	87	100	100	
30	100	100	100	100	98	100	100	98	88	10	33	100	98	100	100	98	100	98	97	98	100	80			
31			92	88	98	100	100	97	100	98	100	100	100	100	100	50	97	100	100	100	98	100	100	95	

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR FEB 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	100	100	100	52	102	100	100	90	92	97	93	97	98	100	97	98	98	97	85	23	52	95	93	28		
2	22	100	98	100	95	100	50					57	98	100	100	33			87	80	100	97	97	100		
3	100	100	100	100	100	97	100	100	93	100	100	100	95	100	100	100	98	97	100	100	97	98	100	100		
4	100	100	98	100	98	100	100	98	100	100	100	98	97	100	102	67							72	97		
5	100	100	100	98	100	100	100	102	98	100	102	97	100	102	22	98	100	100	100	88	100	75	100	95		
6	98	98	100	100	98	38	98	102	98	98	98	100	100	95	100	102	97	95	100	98	98	95	100	97		
7	82						90	100	100	97	100	102	100	98	100	97	98	98	100	97	100	100	100	100		
8	97	100	100	100	98	100	100	102	100	98	100	100	100	100	97	98	100	98	98	97	97	97	100	100		
9	100	83	100	100	100	97	100	100	100	97	97					50	40	98	100	100	98	97	100	102		
10	88	98	100	98	100	98	100	98	100	98	98	100	100	100	100	98	100	100	72	55	22	27	88	87		
11	100	100	100	97	97	98	98		40	98	98	98	100	98	100	97	100	98	100	98	62					
12			10	100	100	98	100	95	100	95	98	98	100	98	98	100	100	98	98	100	97	48	7	102		
13	100	98	98	100	100	100	98	100	87	100	100	100	90	100	100	100	100	100	97	98	98	93	95	98		
14	100	95	100	100	100	100					73	100	100	102	95	100	97	98	98	97	100	100	100	100		
15	102	100	100	98	100	100	100	100	98	98	100	100	98	95	98	100	98	100	97	97	100	95	98	100		
16	97	100	98	100	100	98	98	100	97	100	97	98	100	98	87	33				33		67	100	100		
17	100	100	100	100	100	98	100	93	95	98	100	100	97	100	97	92	100	98	98	98	100	100	87	100		
18	100	98	98	97	98	100	100	100	98	102	100	100	100	100	100	98	100	100	98	100	100	100	100	63		
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																					13	73	98	100	100	

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR MAR 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	100	100	100	100	100	97	97	100	100	97	100	100	100	97	100	100	95	97	98	100	95	78	98	100	
2	100	98	100	102	98	48	25	98	100	102	98	100	100	100	97	100	100	100	95	100	100	100	65		
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																			53	82	28	47	98	100	88
13	95	100	100	100	100	100	100	98	98	100	98	98	98	83	92	98	98	97	90	97	22				
14	77	88	40	90	60	80	100	100	97	38	98	98	100	98	97	95	100	98	100	92	98	72	48		
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																			78	67	48	13	87	100	100
25	100	100	100	100	100	100	100	97	100	100	95	100	100	100	97	95	97	98	100	65			100	98	98
26	100	100	98	98	97	100	100	98	100	100	100	100	98	100	100	97	100	97	57	43	98	40			
27																									
28																									
29																			90	100	97	98	100	100	98
30	100	98	95	100	100	98	90	100	97	100	100	100	100	98	98	100	100	98	93	98	100	83	82	98	
31	98	100	98	97	100	98	100	92																	

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR APR 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1					98	98	98	100	100	100	93	100	97	100	98	100	100	100	98	88	95	98	95	100	
2	100	100	100	100	100	98	100	100	100	100	27	97	97	100	98	72	63								
3														90	100	97	98		88	42	97	98	100	100	
4	100	7	73	97	100	97	100	98	98	98	100	100	100	97	50	98	98	95	98	100	100	97	100	100	
5	100	80															45	2	13	47	92	95	98	100	
6	100	100	100	100	98	97	97	100	100	98	98	100	98	100	100	100	100	90	93	93	93	100	100	100	
7	100	100	100	100	100	100	100	93	100	100	100	97	100	100	45		58	98	95						
8									93	100	98	100	100	98	97	100	100	98	100	5	95	95	100	100	
9	100	100	100	97	98	100	100	100	98	100	100	15	92	92	98	97	42			3	100	100	20		
10																	18	98	100	95	100	100	98	100	
11	97	100	100	100	100	100	100	97	97	100	100	98	100	97	95	100	98	100	95	100	100	100	75	65	
12	97	88	98	98	100	100	100	100	100	98	100	100	97	100	100					68	93	95	97	98	
13	100	100	98	100	98	100	97	98	98	90	92	100	85	95	90	75	98	100	98	98	100	100	97	97	
14	97	93	82	97	100	100	93	98	100	100	98	100	100	98	93	98	27	18							
15													87	100	100	98	100	100	100	95	95	98	100	97	
16	98	65	90	100	100	100	98	98	100	100	100	97	88	90	100	100	98	100	95	85	100	100	98	100	
17	100	100	65											3	23		3		45	100	98	100	83	100	
18	100	88	100	92	10	17	97	98	98	97	53	100	98	98	93	58	30	33	82	98	98	82	100	98	
19	52	87	100	95	100	73	58	48	85	93	100	95	100	100	100	93	20	98	98						
20						28	100	98	100	100	100	100	100	98	98	98	65	95	100	100	97	98	100	100	
21	100	100	100	100	100	100	98	100	98	100	95	35	98	97	97	100	97	98	43	33	100	100	98	100	
22	100	100	17											·	20	52	100	100	100	98	98	98	100	98	
23	100	100	100	100	43	87	98	100	100	100	100	98	100	100	98	100	95	88	100	100	98	100	100	100	
24	83	67	100	100	83	100	72																		
25	17	100	100	100	100	98	100	100	72	98	100	90	100	95	100	97	90	97	98	98	100	97	100	98	
26	100	100	97	97	83	100	98	100	98	97	100	100	98	100	98	7									
27										17	100	100	100	75			97	97	100	98	98	100	95	98	
28	92	97	100	58	100	100	18	27	100	80	88	98	100	97	57		63	63	25	98	98	100	100	100	
29	95	68													43	53	42	87	100	100	100	100	100	100	
30	98	98	98	95	100	92	43	67	93	73	87	100	100	98	98	90	95	97	100	100	98	100	100	98	

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR MAY 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	90	93	100	97	100	98	92	95	82	97	97	98	98	97	82	97	92	85							
2					58	98	97	93	97	100	98	53	18	100	85	90	25	93	18		97	100	100	100	
3	18	63	58	37	100	97	57	42	18	98	100	52	27	98	100	87	88	77		83	92	23			
4														63	40			38	100	98	33	85	97	98	
5	98	100	43	22	98	95	100	33	83	100	95	100	100	93	23	63			48	98	100	98	98	100	
6	95	88	92	15	82	98	2																		
7	98	93	95	100	100	100	95	98	98	100	100	98	100	100	63	57	3		98	100	97	98	98	75	
8	100	100	100	100	100	100	88	98	100	82	88	100	82	100	67										
9										45	100	100	100	100	98			50		3	68	93	73	43	
10	2	37	2	48	98	100	100	100	95	95	92	100	100	100	98	52	52		75	100	68	100	65	98	
11	53												63	30								27	98	100	
12	95	40	90	95	98	100	97	100	100	98	98	97	98	97	100	38					2	88	93	35	
13	93	97	93	95	90	100	100	100	98	95	100	85	98	97	98	95	68								
14					85	85	100	98	100	100	87	90	100	98	100	97	97	73	97	98	92	100	97	92	
15	100	100	100	100	100	98	100	57	100	98	97	100	98	100	88	47	88	28	40						
16														72	100	95	37		82	100	98	92	100	100	
17	100	100	98	97	100	100	98	97	83	95	100	100	100	97	98	100	100	100	98	100	97	95	98	100	
18	25	98	98	98	2																			63	
19	98	68	18	98	100	100	68	90	95	97	97	100	100	92	100	100	100	95	98	97	98	100	100	97	
20	100	77		82	100	60	97	65	98	98	95	100	100	100	67										
21									67	100	100	98	98	98	100	97	67	98	97	100	98	100	93	97	
22	100	100	100	98	98	100	98	93	98	100	100	98	93	100	100	98	100	65	100	63	55	100	100	3	
23											42	20	8	98	98	98	3	5	12	12	100	100	100	100	
24	98	100	98	98	100	98	100	95	95	98	98	98	100	85	95	98	15	97	90	78	97	100	100	97	
25	100	67	27	98	100	87	98	100	98	98	98	100	100	100	98										
26				98	98	100	100	100	98	98	100	100	100	98	100	100	28		53	100	98	98	92	100	
27	100	100	100	100	93	100	100	100	97	97	97	100	100	100	88	98	100	38							
28													22	100	100	100	100	100	97	100	95	100	98	100	
29	97	100	97	98	98	100	100	98	98	100	98	100	98	80	83	100	100	30	57	100	42	82	98	100	
30	100	100	100	10																			98	100	
31	100	100	98	100	100	98	100	100	98	100	98	100	97	73	100	100	47	98	100	98	100	100	97	98	

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR JUN 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1	98	100	100	100	100	95	100	100	98	100	98	100	98												
2								73	100	100	92	98	98	97	52						98	98	100	98	100
3	82	97	98	98	100	100	100	100	100	100	98	95	100	98	97	95	100	100	100	100	100	67			
4										28	90	98	100	100	100	93	100	100	100	97	100	100	100	98	
5	100	100	100	100	100	98	98	97	100	98	100	100	67	100	98	82	93	97	98	100	97	90	93	98	
6	77	100	98	100	100	98	95	80			58	13	53		5					20		73	92	90	82
7	98	70	98	100	100	90	100	98	98	100	97	100	100	68	82	97	100	90	100	100	98	93	92	98	
8	98	100	100	98	100	98	100	58			92	100	98	98	93	73	57	98	98	97	83	95	92		
9					78	100	100	100	95	97	98	100	100	98		85	100	100	98	60	98	100	100	100	
10	100	95	98	98	100	100	97	98	98	98	100	97	100	100	100	100	100	100	100	98	98	100	97	97	
11	97	93	100	100	100	98	78	47							73	85	100	100	100	100	12	25	95	100	
12	100	100	98	100	98	98	100	98	100	98	98	100	90	42	40	100	95	100	98	98	100	100	100	100	
13	100	98	100	98	100	98	98	98	100	98	98	100	100	93	97	90	5	2	5				22	98	
14	97	100	98	98	100	100	100	98	100	98	95	100	100	72		75	100	100	100	100	98	100	100	100	
15	100	95	100	100	98	100	100	97	97	98	100	98	100	98	77	50	98	100	97	77	100	95	100	63	
16		28	100	38						73	100	85	45			42	95	67	83	98	70	100	97	100	
17	100	100	100	98	95	95	98	98	100	98	98	98	100	58	63	100	100	100	98	100	100	100	97	97	
18	100	93	97	100	98	85	97	70		97	92	82	97	17						4	28	100	95	98	
19	~~98~~	~~93~~	~~88~~	~~100~~	~~100~~	~~65~~	~~100~~	~~100~~	~~100~~	~~100~~	~~98~~	~~98~~	~~95~~	~~67~~	~~62~~	~~95~~	~~100~~	~~100~~	~~100~~	~~98~~	~~97~~	~~95~~	~~100~~	~~100~~	
20	~~7~~	~~13~~	~~48~~	~~25~~	~~23~~	~~100~~	~~75~~	~~100~~	~~92~~	~~100~~	~~98~~	~~98~~	~~100~~	~~53~~	~~62~~	~~38~~	~~97~~	~~93~~	~~97~~	~~25~~	~~33~~	~~100~~			
21			12	100	93	98	100	97	98	100	98	98	55	77	47										
22	95	100	100	98	88	88	98	98	95	98	97	97	100	92	100	62	98	100	40	35	95	100	98	73	
23	100	100	98	47	100	37	80									20		93	98	25	97	100	98	100	
24	100	100	98	97	100	100	100	97	97	100	100	98	98	88	98	95	100	100	97	82	25	93	100	100	
25	78	92	42	100	98	97	93	92	97	98	95	100	98	100	92	70			100	95	100	98	100	98	
26	98	97			75	98	95	98	98	100	100	97	73	100	7	73	80	73	93	98	95	43	95	83	
27		90	100	98	100	73		77	95	100	100	98	100	97	93		18	97	98	100	98	100	88	25	
28	98										40	83	85	43	35	23	12	2			63	92	92	97	
29	95	100	97	73	93	97	92	98	98	92	100	48			35	100	98	100	100	98	97	58	72	82	
30	55	98	100	100				27	77	97	97	85							37	67		98	77	92	
																								77	33

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR JUL 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	UT
1	100	82	100	97	97	97	98	98	93	97	98	98	97	97	35	97	67		65	92	87	97	98	7		
2	100	95	100	98	100	53	77	85	75	72	43	28	100	98	85	53										
3		38	100	50		80	7	62	98	85	5															
4							92	97	32		47	98	55	23	85	95	97	42					27	98		
5	90	98	98	93	60	100	52					23	37	65	25	90	93	47	30		83	98	20	42		
6		23	52	68	100	53	25		33	93	97	73	97	48									63	98		
7		17	98	98	98	85	22	100	98	100	100	100	100	93	95	2					40	98	97	98		
8	98	98	100	88	57	95	58	37	38	40	55	28														
9						50	100	100	98	95	87	93	93	97	45	50	42	23		40	98					
10											100	17	45	68	7	12	7	68	63	40	98	60				
11	63		48	25	27	77	58			38	72	48	83	58	100	8	77	2	98	25				70		
12	38	97	93	78		78		68	98							60	72			22	10		3	18		
13																		15	80	55		82	55	50		
14		17	97	93	100	98	100	100	47	30	28	22	45	17		67	98	3	30							
15		45	98		87	98	100	95	98	100	30				25		85	100	100	100	98	90	35	33		
16								93	93	87	83	85	100	23		93	72			37	33	100	77			
17	50	100	75	38									58	5	42	97	72	67	100	75	100	98	25			
18																					92	45	50	23		
19	75	100	97	100	100	100	98	100	98	100	95	100	98	98	18					92	100	100	78	98		
20	100	100	100	98	98	97	85	65	95	98	75	98	70	100	75		68	92				85	100	100		
21	100	100	98	100	93	98	87	95	98	95	98	93	67	37	10	93	95	5		88	100	75				
22					23	93	52	67	68	3	98	73	8	60		93	3	92	92		97	97				
23						70	75	75	65	75	60	65	40		33	63	82	50	95	100	92	100	55	5		
24	33	98	98	97	97	92	53	88	95	22				22	63	97	88	37	67	23	97	53	67	70		
25			62		25	98	87	62	35	87	98	100	38	68		43	87	93	8	50	100	98	100	58		
26	98	97	98	97	98	95	97	100	98	98	98	80	98	35	95	100	97	100	55					95		
27	97	100	95	98	100	100	100	98	97																	
28															92	100	98	98	100	5	87	97	92	100		
29	93	100	50						27	100	20		65	98	72											
30				48	83					17	97	98	100	98	100	95	87	100	98	62	93	98	92	95		
31	100	98	100	100	98	98	97	98	100	98	45	8	98	20				30	97	98	100	100	100	100		

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR AUG 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		98	8																				27		
2			58	100	80	100	100	100	95	100	82	88	92	55	60	23	55	98	100	37					
3					70	67														70	98	98	98	100	97
4																82	100	100	98	50					
5		63	95	100	100	97	92	97	82																
6																									83
7			50	98	100	100	98	93	90	22	50	98	68	52		58	48								
8		98	100	98	98	97	60	58					13	98	38	13	7	100	97	5	87	98	95	95	100
9																									
10		73							37	75	100	100	90	62	67										
11																		57	100	98	7	100	10	57	100
12					8	97	98	98	100	92	92														
13		88											80		45	53	48	95	100	97	78	18			
14																									
15			40	90	33	73		65	57	63	60	92	92	32									73	75	25
16																									
17		70	63	57		60	97	50						17	97	80	88	85	75						
18																						57	62	98	100
19				57	98	98	97	100	100	100	97	100	72	48	97	43									
20		100	82	97	50																				
21																		90	98	100	55	68	48	97	95
22		67	20				27	82	95	100	97	98	42												
23																	47	98	100	100	50				
24			50	100	83	100	58	78	98	95	95	62													
25																									
26										58	98	42			2	98	93	100	90	92	93				
27		35	92	100	27																	48	100	100	98
28		75	92	72	57							80	100	82	100	97	33								
29		98	43	33	100	100	27																		
30																									
31									75	100	98	95		52							98	92	97	100	100

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR SEP 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		98	33															82	100	92	97	100	98	15	
2									82	95	92	48													
3																									
4															33	85	90	90	98	68					
5		67	95	98	100	100	90	93	97	87	28														
6												25	100	32	60	13	10	50							82
7																									
8		98	98	95	42	73	57																78	100	98
9																									
10		98	100	95	42	7				37	47	83	97	97	80										
11																			18	100	92	97	100	98	98
12									65	98	80														
13		30	97	82												55	58	97	98	98	95	93	48		
14																									
15							48	60	100	98	33														
16																									
17			42	97	95	83	23	45						57	100	95	98	100	97	17					
18																									
19										3	40	98	98	55	25		68	50					18	92	15
20		97	40	88	97	57																			
21																				8	100	100	100	100	97
22		73		43							48	100	98	83											
23																									
24																									
25																									
26																									
27				85	93	23	37																		
28																									
29			75	95	22	70		25					85	87	90	95	95	95	23			13	75	98	97
30		73	97	93	17																				

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR OCT 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1														25		43	40					20	53	100	100
2		95	95	87															12	98	77	37	30		70
3																									
4		97	63									33	38	45											
5																									
6						98	98	92	40	18							67	98	97	97	97	98	90	83	
7																									
8																		42		85	50				
9		38	100	97	98	43																		42	55
10																									
11			72		53	100	55					12	88	22		90									
12																									
13												58	23	3	78	48					45	77	20		
14																									
15																					98	58		45	100
16																									
17																									
18							97		50	5						90	83	47	83	83	95	30			
19																									
20																5	33	97	88						
21		92	68			38																			
22																							98	87	13
23		63	10							20		60	100	98	100	85									
24																									
25												7	53	23	48					52	85		47		65
26		48																							
27																					25	50	98	82	
28						42	28	53	42		60	87	100	28											
29																									
30		42	65		33	8	3	92	100	22				15	100	95	100	92	32	47	98	100	2	23	100
31		73		10	93	8																			

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR NOV 1978

(1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1																									
2		8	97	8	68	98	43							35	43		73	72					5	73	47
3																									
4																									
5									22	87	13	57	38				42		50		50				
6																									
7																		15	8		5	58	62		
8																									
9															75	67			90		72	100			
10																							45		
11					~~50~~	~~98~~	~~75~~																		
12													~~78~~	~~97~~	~~100~~	~~100~~	~~93~~	~~98~~	~~75~~						
13																									
14		37	10	68			90		98	3		60	98	67			75					17	50	93	2
15										25	32	83	63	98	82	75	100	100	98				63	78	53
16		72										52	100	100	100	98	98	72				32	97	33	72
17								15	47	82	38	45				47			78	100	50				
18																									
19								22	63			33					35	23							
20																				3	88	100	100	58	25
21		20	45	82	7	53													28		25	5			
22								5	95	100	98	100	17												
23		32	72				17																		
24											2	98	98	2	25	87	77	100					17	8	17
25			98	98	27	50		92	100			42	100	78	75	50					85				
26																					52	80	98	97	72
27																									
28							30	58	50	88	57	75	98	40	98	100	95	100	83		13	98	95	100	57
29																80	53	52	20	62	70	60	18		93
30			2		55	95		5	93	47															

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR DEC 1978 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		50																							
2						73									2	97	98			5					
3			28			40	98	100	95	98	97	95	82												
4																									
5			67	97	2				18		33	27	48	100	45	70		17	100	58	73			25	53
6																									
7									75		88	88	97	100							42	2			57
8								75	67																
9																		58	100	23		80	98	97	25
10						43		10	58	93	100	85	33	100	97	97	78		45	50					
11																									
12					55					5					62	98	43	17	72	17	97	60	80	7	
13										73	73	10	38												
14																17	25	22	58	7				12	
15		28						60	100	95	97	98	100	98	58										
16																							50	8	33
17		3	57							23	95	98	100	98	100	100	70	18	62	95	50				
18																									
19							93		15	98	58		83	22					10	97	15	98	98	12	
20				58	97			90	100	78															
21										23	75		25	100	75	100	82	98	98	98	52	93	50		
22								22	98	97	100	87	30	40	60	100	100	98	97	80	98	83	25		
23																			82	88	77	100	78	50	
24		45	52	2	43				20					38	100	100	88	98	100	23	35	80	18		63
25		2		50	97	50	92																		
26					98	93	100	98	38	100	100	83	87		38	80	90	70					33	27	93
27		43	70	33	98	100	97	97	95	100	55	15	100	97	100	100	60	98	42	98	83	48	87	57	53
28							98	98	25	58	100	47	5	77	78			48	93	48	80	23	12	73	
29				7				30	100	95	100	98	100	100	98	98	100	65	98	33	93	100	52	68	17
30			30	48	97	25																			
31			33	37	83	97	100	100	95	90	100	95							98	97	100	97	100	70	52

ISEE-2 FPE (LASL/MPE, G. PASCHMANN, PI) 2D IONS

DATA COVERAGE (%) FOR JAN 1979 (1 MIN. RESOLUTION, SOLAR WIND AND INNER MAGNETOSPHERE EXCLUDED)

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 UT
1		37	100	100	97	90	53	100	100	98	92	100	100	95	98	100	100	90	92	85	100	42	53	38	
2	25	2	65	82	95	100	95	98	98	75		10	100	62	100	100	100	97	98	98	72				
3			70	98	100	100	85	87	92	98	97	100	97	98	100	98	97	28	100	100	100	95	30	92	
4		3	98	52	88	97	100	98	100	97	88	98	100	50		73	100	85	100	100	100	100	42	83	
5		63	32		12	97					47	98	98	100	100	30	25	100	100	100	12	43	75	42	
6	28	47	20	80	65	87	37												20	98	100	100	25		
7				57	100	100	100	100	100	100	32	100	95	100	80	40						22	7	28	
8	48	72	97	97	98	95	98	100	100	98	98	98	100	98	3	50	20	97	97	100	97	98	93	52	
9		42	100	53						40	95	48		50	80		83	23		95	100	90	95	73	
10	12					72	98	97	100	93	100	100	100	100	67	98	100	93	2	100	97	35	93	63	
11	47	100	100	98	98	100	98	100	95	100	97	100	100	100	100	100	98	100	97	100	97	95	98	97	
12	67		5	95	98	62	93	100	98	93					47	100	70	98	78	42	100	97		58	
13	20	100	98	100	63	45	100	98	100	100	100	100	97	98	97	95	75	100	95	75	37	100	100	80	
14	62	37	32	100	22	2	100	100	98	100	100	100	98	100	100	97	100	95	98	28				25	
15	100	40	75	98	97	90	100	97	100	100	100	100	98	97	97	100	48	42	100	98	100	37	70	80	
16		20	67	68	100	98	95	82	98	97	100	100	100	100	100	97	30	100	100	100	98	98	95	100	
17	55				8					78	98	98	100	100	98	33	57	98	100	75	83	100	58	60	
18	12		7	58	100	100	98	10	3	95	98	95	98	75			62	95	100	97	100	98	93	98	
19	78	13	73		37	98	100	100	100	70			78	90											
20																									
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B-1

PRINTOUT OF FILE-HEADER + FIRST 4 DATA RECORDS, ISEE1

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
1	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	4	10	1977 302	82200.	1977 319	32400.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1977 302	82221.0	4	3.266	-7.875	2.769	1	1.362	8.70E-09	0	27.1	11.6	4.63E+07
2	1977 302	82280.9	4	3.286	-7.893	2.781	1	1.331	7.95E-09	0	-14.9	-17.2	4.33E+07
3	1977 302	82340.9	4	3.302	-7.907	2.790	1	1.284	8.20E-09	0	-5.7	-6.3	4.62E+07
4	1977 302	82400.9	4	3.322	-7.924	2.802	1	1.240	7.82E-09	0	19.8	2.1	4.57E+07
⋮													
4677	1977 319	32349.3	10										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
2	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	11	20	1977 319	57000.	1977 343	23400.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1977 319	57001.1	11	0.369	-7.686	2.475	1	0.850	3.68E-09	0	16.1	-17.6	3.14E+07
2	1977 319	57061.0	11	0.382	-7.710	2.487	1	0.774	2.45E-09	0	16.7	7.5	2.30E+07
3	1977 319	57121.0	11	0.396	-7.734	2.499	1	0.781	2.93E-09	0	-0.2	32.3	2.72E+07
4	1977 319	57181.0	11	0.410	-7.757	2.511	1	0.871	4.71E-09	0	-0.7	32.1	3.92E+07
⋮													
9886	1977 343	23385.7	20										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
3	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	21	30	1977 343	44400.	1978 2	20100.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1977 343	44446.5	21	-2.935	-4.970	1.659	1	1.565	4.35E-09	0	4.0	21.9	2.01E+07
2	1977 343	44506.5	21	-2.935	-5.006	1.674	1	1.536	4.39E-09	0	6.5	7.7	2.07E+07
3	1977 343	44566.5	21	-2.935	-5.034	1.686	1	1.599	4.06E-09	0	-2.2	8.0	1.84E+07
4	1977 343	44626.4	21	-2.935	-5.070	1.701	1	1.398	3.94E-09	0	25.6	22.6	2.04E+07
⋮													
16081	1978 2	20046.8	30										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
4	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	31	40	1978 2	35400.	1978 26	4800.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 2	35546.7	31	-4.670	-3.353	1.738	1	0.979	1.86E-09	0	6.6	-16.2	1.37E+07
2	1978 2	35606.7	31	-4.684	-3.386	1.753	1	0.958	1.80E-09	0	-13.0	5.4	1.36E+07
3	1978 2	35666.7	31	-4.699	-3.419	1.768	1	1.019	1.73E-09	0	-1.6	13.4	1.23E+07
4	1978 2	35726.6	31	-4.713	-3.452	1.784	1	1.039	1.76E-09	0	-9.2	15.0	1.23E+07
⋮													
24101	1978 26	4745.3	40										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
5	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	41	50	1978	26	26700.	1978	49	86400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	26	26843.9	41	-5.660	-1.241	1.845	1	0.050	4.11E-11	1	-33.2	-58.9	5.74E+06
2	1978	26	26903.9	41	-5.686	-1.266	1.860	1	0.022	1.77E-11	1	28.8	-46.5	5.64E+06
3	1978	26	26963.9	41	-5.706	-1.284	1.872	1	0.056	3.47E-11	1	-75.5	7.6	4.13E+06
4	1978	26	27023.8	41	-5.733	-1.308	1.887	1	0.041	2.66E-11	1	-97.9	59.0	3.95E+06
...														
23031	1978	49	86366.5	50										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
6	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	55	60	1978	59	67200.	1978	73	80700.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	59	67308.6	55	-5.329	1.934	2.028	1	0.270	4.25E-09	0	-208.4	-80.4	1.11E+08
2	1978	59	67344.6	55	-5.349	1.930	2.037	1	0.312	5.30E-09	0	130.1	64.9	1.22E+08
3	1978	59	67380.6	55	-5.369	1.926	2.045	1	0.226	2.94E-09	0	-32.0	-15.7	9.39E+07
4	1978	59	67416.6	55	-5.389	1.922	2.054	1	0.280	4.79E-09	0	-242.0	3.2	1.20E+08
...														
5119	1978	73	80686.6	60										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
7	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	65	70	1978	83	59700.	1978	97	69000.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	83	59886.8	65	-4.625	3.892	2.346	1	0.853	1.49E-09	0	13.9	-13.7	1.27E+07
2	1978	83	59946.8	65	-4.657	3.898	2.359	1	0.739	1.41E-09	0	36.3	15.9	1.38E+07
3	1978	83	60006.8	65	-4.689	3.904	2.373	1	0.722	1.44E-09	0	8.9	-2.6	1.45E+07
4	1978	83	60066.7	65	-4.720	3.910	2.386	1	0.679	1.29E-09	0	1.3	17.8	1.37E+07
...														
12634	1978	97	68977.1	70										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
8	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	71	80	1978	98	27300.	1978	121	64800.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	98	27344.2	71	-12.002	6.854	5.820	1	0.114	5.00E-10	0	2.3	59.8	3.15E+07
2	1978	98	27404.2	71	-12.017	6.855	5.825	1	0.092	5.01E-10	1	-16.6	-22.2	3.96E+07
3	1978	98	27464.2	71	-12.033	6.856	5.831	1	0.081	4.12E-10	1	-25.1	-108.6	3.59E+07
4	1978	98	27524.2	71	-12.048	6.857	5.836	1	0.095	5.65E-10	1	-102.4	-71.4	4.20E+07
...														
22269	1978	121	64587.8	80										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
9	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	81	90	1978 122	18600.	1978 145	51000.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 122	18892.8	81	-8.401	10.991	5.811	1	0.875	5.11E-10	0	3.7	1.6	4.23E+06
2	1978 122	18952.8	81	-8.415	10.998	5.816	1	0.819	5.33E-10	0	-6.5	-8.8	4.71E+06
3	1978 122	19012.8	81	-8.429	11.004	5.821	1	0.895	4.91E-10	0	8.7	-13.9	3.96E+06
4	1978 122	19072.7	81	-8.443	11.011	5.827	1	0.752	5.45E-10	0	5.0	14.3	5.24E+06
..													
18916	1978 145	50751.3	90										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
10	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	91	100	1978 146	9600.	1978 169	46800.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 146	9814.0	91	-3.350	13.311	5.732	1	0.091	1.66E-10	1	49.5	21.2	1.29E+07
2	1978 146	9874.0	91	-3.362	13.323	5.737	1	0.016	5.02E-11	1	-10.3	45.0	2.32E+07
3	1978 146	9934.0	91	-3.370	13.333	5.741	1	0.112	1.15E-10	0	-104.2	11.6	6.73E+06
4	1978 146	9993.9	91	-3.381	13.345	5.747	1	0.089	1.10E-10	1	-113.0	79.0	7.78E+06
..													
24859	1978 169	46745.0	100										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
11	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	101	110	1978 169	65700.	1978 193	36000.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 169	65726.2	101	3.426	6.087	3.025	1	0.624	3.78E-09	0	-14.7	-6.5	4.38E+07
2	1978 169	65786.2	101	3.426	6.118	3.037	1	0.640	3.30E-09	0	15.7	-6.5	3.74E+07
3	1978 169	65846.2	101	3.425	6.149	3.049	1	0.596	2.89E-09	0	7.7	9.9	3.51E+07
4	1978 169	65906.1	101	3.425	6.173	3.058	1	0.628	2.86E-09	0	21.2	-11.8	3.30E+07
..													
21114	1978 193	35994.9	110										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
12	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	111	120	1978 193	52800.	1978 217	28200.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 193	53010.9	111	4.783	2.768	2.379	1	0.583	4.78E-09	0	20.3	-6.0	5.95E+07
2	1978 193	53070.8	111	4.795	2.792	2.390	1	0.611	4.61E-09	0	-42.9	29.0	5.45E+07
3	1978 193	53130.8	111	4.812	2.825	2.404	1	0.403	4.79E-09	0	34.5	43.2	8.60E+07
4	1978 193	53190.8	111	4.828	2.857	2.419	1	0.600	4.56E-09	0	-3.2	15.9	5.51E+07
..													
16794	1978 217	27972.7	120										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
13	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	121	130	1978	217	46500.	1978	241	19500.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	217	46563.7	121	6.574	1.756	2.985	1	0.498	4.09E-09	0	32.8	-32.7	5.94E+07
2	1978	217	46623.7	121	6.595	1.778	2.996	1	0.440	3.86E-09	0	52.5	14.1	6.33E+07
3	1978	217	46683.6	121	6.616	1.799	3.007	1	0.546	4.47E-09	0	2.3	-22.6	5.92E+07
4	1978	217	46743.6	121	6.637	1.820	3.018	1	0.489	4.11E-09	0	-32.0	-17.8	6.07E+07
...														
8343	1978	241	19427.2	130										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
14	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	131	140	1978	241	37200.	1978	265	10800.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	241	37358.7	131	6.463	-0.951	2.932	1	0.753	3.34E-09	0	-19.0	-28.4	3.21E+07
2	1978	241	37418.7	131	6.492	-0.939	2.943	1	0.831	3.14E-09	0	10.5	-18.3	2.73E+07
3	1978	241	37478.6	131	6.520	-0.927	2.954	1	0.784	3.56E-09	0	9.0	-31.1	3.28E+07
4	1978	241	37538.6	131	6.549	-0.916	2.966	1	0.387	3.00E-09	0	-17.6	-33.1	5.61E+07

IFY218I VSIOS : I/O ERROR, FILE FT10F001, DMSSVT120S INPUT ERROR 003 ON FT10F001,.
STANDARD CORRECTIVE ACTION TAKEN. EXECUTION CONTINUING.

I/O ERROR: INPUT FILE / DS: 165 212

...					
5881	1978	265	10778.6	140	

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
15	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	141	150	1978	265	27600.	1978	289	1200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	265	27889.0	141	4.960	-3.286	2.763	1	0.340	1.86E-09	0	29.3	123.1	3.86E+07
2	1978	265	27949.0	141	4.992	-3.288	2.775	1	0.508	2.97E-09	0	3.3	18.4	4.24E+07
3	1978	265	28008.9	141	5.025	-3.289	2.787	1	0.478	2.65E-09	0	56.3	33.0	3.99E+07
4	1978	265	28068.9	141	5.057	-3.290	2.799	1	0.419	2.52E-09	0	-10.9	19.3	4.36E+07
...														
4595	1978	289	1130.0	150										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
16	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	151	160	1978	289	27900.	1978	312	79200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	289	28146.1	151	6.898	-6.291	4.097	1	0.569	4.61E-09	0	2.7	-1.6	5.87E+07
2	1978	289	28206.0	151	6.921	-6.297	4.104	1	0.399	4.32E-09	0	33.3	19.5	7.84E+07
3	1978	289	28266.0	151	6.944	-6.304	4.111	1	0.559	4.66E-09	0	15.2	19.9	6.04E+07
4	1978	289	28326.0	151	6.966	-6.310	4.119	1	0.448	4.90E-09	0	-5.9	13.8	7.93E+07
...														
5126	1978	312	79087.1	160										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
17	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	161	170	1978	313	15600.	1978	336	68400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	313	15918.7	161	2.440	-7.430	3.572	1	0.732	4.90E-09	0	61.1	19.1	4.83E+07
2	1978	313	15978.7	161	2.460	-7.448	3.580	1	0.774	4.78E-09	0	-9.5	-7.0	4.48E+07
3	1978	313	16038.6	161	2.480	-7.467	3.589	1	0.622	4.48E-09	0	31.2	27.6	5.21E+07
4	1978	313	16098.6	161	2.500	-7.486	3.597	1	0.737	4.55E-09	0	31.5	1.9	4.47E+07
..														
6391	1978	336	68345.2	170										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
18	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	171	180	1978	337	8100.	1978	360	61200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	337	8114.9	171	-0.820	-8.013	3.640	1	1.556	6.87E-09	0	6.4	19.7	3.20E+07
2	1978	337	8174.9	171	-0.810	-8.038	3.648	1	1.308	6.58E-09	0	-15.7	-0.3	3.65E+07
3	1978	337	8234.9	171	-0.799	-8.062	3.656	1	1.410	7.07E-09	0	-5.0	15.2	3.63E+07
4	1978	337	8294.9	171	-0.788	-8.087	3.664	1	1.511	7.24E-09	0	14.4	-4.7	3.47E+07
..														
8998	1978	360	61092.9	180										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
19	ISEE1 FPE 2D IONS 85. LANL/MPE, S.J. BAME, PI	181	190	1978	360	85800.	1979	19	54300.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	360	85961.9	181	-4.084	-7.026	3.651	1	0.710	3.92E-09	0	44.6	-21.9	3.98E+07
2	1978	360	86021.9	181	-4.084	-7.053	3.659	1	0.602	3.36E-09	0	17.4	43.2	4.02E+07
3	1978	360	86081.9	181	-4.085	-7.080	3.667	1	0.642	2.88E-09	0	47.2	-16.2	3.23E+07
4	1978	360	86141.8	181	-4.085	-7.106	3.675	1	0.625	3.86E-09	0	-0.4	-10.0	4.48E+07
..														
11665	1979	19	54197.5	190										

WDCTAPE: END OF INPUT

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

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B-2

PRINTOUT OF FILE-HEADER + FIRST 4 DATA RECORDS, ISEE 2

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
1	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	2	10	1977 300	10800.	1977 319	32400.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1977 300	10809.4	2	11.401	-1.270	5.251	0	79.567	2.94E-08	0	-104.4	72.7	1.69E+06
2	1977 300	10869.4	2	11.385	-1.260	5.242	0	86.860	3.05E-08	0	-117.0	56.3	1.52E+06
3	1977 300	10929.4	2	11.370	-1.250	5.234	0	83.632	2.91E-08	0	-112.5	60.5	1.53E+06
4	1977 300	10989.4	2	11.354	-1.240	5.226	0	84.128	2.98E-08	0	-130.9	50.2	1.37E+06
...													
4233	1977 319	32383.3	10										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
2	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	11	20	1977 319	51000.	1977 343	20700.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1977 319	52770.2	11	-0.602	-5.792	1.571	1	1.232	3.47E-09	0	10.2	8.2	2.04E+07
2	1977 319	52830.2	11	-0.589	-5.824	1.585	1	1.070	4.92E-09	0	-0.6	53.8	3.31E+07
3	1977 319	52890.2	11	-0.575	-5.855	1.599	1	0.909	3.71E-09	0	-30.0	2.5	2.95E+07
4	1977 319	52950.2	11	-0.562	-5.886	1.613	1	0.866	3.45E-09	0	11.2	-28.0	2.89E+07
...													
9312	1977 343	20641.0	20										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
3	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	21	30	1977 343	45900.	1978 2	19800.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1977 343	46004.1	21	-2.919	-5.965	2.082	1	0.872	2.74E-09	0	1.0	-11.4	2.28E+07
2	1977 343	46064.1	21	-2.918	-5.990	2.092	1	0.896	3.13E-09	0	-4.3	9.5	2.53E+07
3	1977 343	46124.1	21	-2.916	-6.023	2.106	1	0.931	2.96E-09	0	11.5	4.6	2.30E+07
4	1977 343	46184.1	21	-2.914	-6.055	2.120	1	0.947	3.19E-09	0	7.9	5.0	2.44E+07
...													
15872	1978 2	19628.4	30										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
4	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	31	40	1978 2	35100.	1978 26	6300.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 2	35184.1	31	-4.681	-3.356	1.742	1	0.686	1.62E-09	0	3.9	11.0	1.71E+07
2	1978 2	35244.1	31	-4.695	-3.390	1.758	1	0.755	1.52E-09	0	-4.3	-8.4	1.46E+07
3	1978 2	35304.1	31	-4.710	-3.423	1.773	1	0.581	1.40E-09	0	-21.9	12.8	1.74E+07
4	1978 2	35364.1	31	-4.721	-3.448	1.784	1	0.764	1.38E-09	0	8.5	15.9	1.31E+07
...													
28227	1978 26	6240.6	40										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
5	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	41	50	1978	26	27000.	1978	49	85200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	26	27164.7	41	-5.987	-1.539	2.032	1	0.067	1.06E-10	1	-79.6	46.9	1.09E+07
2	1978	26	27404.7	41	-6.079	-1.629	2.086	1	0.203	6.22E-10	0	19.4	17.1	2.22E+07
3	1978	26	27464.7	41	-6.097	-1.647	2.097	1	2.723	1.37E-09	0	8.5	-177.2	1.74E+06
4	1978	26	27524.7	41	-6.121	-1.671	2.111	1	0.131	4.55E-10	0	-1.8	19.5	2.52E+07
..														
29586	1978	49	85137.5	50										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
6	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	55	60	1978	59	71400.	1978	73	81000.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	59	71568.2	55	-7.705	1.340	3.062	1	0.037	2.71E-11	1	33.6	17.7	5.18E+06
2	1978	59	71628.2	55	-7.730	1.332	3.073	1	0.033	2.74E-11	1	-7.8	9.4	6.02E+06
3	1978	59	71688.2	55	-7.756	1.324	3.084	1	0.038	2.76E-11	1	15.4	-22.8	5.15E+06
4	1978	59	71748.2	55	-7.781	1.316	3.095	1	0.033	1.84E-11	1	-27.4	-69.5	3.74E+06
..														
5571	1978	73	80937.4	60										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
7	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	65	70	1978	83	61800.	1978	97	68400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	83	61992.3	65	-6.009	4.110	2.932	1	0.037	1.94E-11	1	-27.3	-55.7	3.58E+06
2	1978	83	62052.3	65	-6.039	4.113	2.945	1	0.054	3.07E-11	1	45.2	10.1	4.01E+06
3	1978	83	62112.3	65	-6.062	4.116	2.954	1	0.010	1.44E-11	1	-23.6	12.8	1.07E+07
4	1978	83	62172.3	65	-6.091	4.119	2.966	1	0.033	1.38E-11	1	57.6	47.6	2.70E+06
..														
11993	1978	97	68167.1	70										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
8	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	71	80	1978	98	28800.	1978	121	64800.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	98	29043.7	71	-12.533	6.895	6.018	1	0.087	1.39E-10	1	-50.0	25.5	1.13E+07
2	1978	98	29103.7	71	-12.547	6.895	6.024	1	0.060	1.63E-10	1	-66.3	11.2	1.95E+07
3	1978	98	29163.7	71	-12.562	6.896	6.029	1	0.072	1.91E-10	1	-26.6	-31.0	1.91E+07
4	1978	98	29223.7	71	-12.577	6.896	6.034	1	0.101	1.69E-10	0	3.1	-30.0	1.22E+07
..														
23700	1978	121	64513.0	80										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
9	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	81	90	1978 122	15900.	1978 145	54000.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 122	15919.9	81	-7.691	10.655	5.554	1	0.752	5.61E-10	0	-8.5	-1.1	5.40E+06
2	1978 122	15979.9	81	-7.705	10.663	5.560	1	0.618	5.31E-10	0	12.1	4.8	6.21E+06
3	1978 122	16039.9	81	-7.720	10.671	5.565	1	0.634	4.70E-10	0	-2.8	1.3	5.38E+06
4	1978 122	16099.9	81	-7.735	10.678	5.571	1	0.668	5.30E-10	0	-11.8	-6.5	5.73E+06
..													
20557	1978 145	53967.1	90										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
10	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	91	100	1978 146	10800.	1978 169	47400.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 146	10875.0	91	-3.459	13.462	5.804	1	0.057	1.21E-10	1	9.3	-22.9	1.53E+07
2	1978 146	10935.0	91	-3.468	13.471	5.808	1	0.034	1.20E-10	1	22.8	-60.2	2.55E+07
3	1978 146	10995.0	91	-3.479	13.484	5.813	1	0.063	7.96E-11	1	8.1	29.0	9.05E+06
4	1978 146	11055.0	91	-3.490	13.496	5.818	1	0.049	1.22E-10	1	-38.8	88.1	1.74E+07
..													
25289	1978 169	47399.5	100										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
11	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	101	110	1978 169	69000.	1978 193	32400.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 169	69044.1	101	3.386	7.296	3.494	1	0.621	4.03E-09	0	-6.5	2.7	4.70E+07
2	1978 169	69104.1	101	3.384	7.324	3.505	1	0.641	4.52E-09	0	22.3	-1.8	5.10E+07
3	1978 169	69164.1	101	3.382	7.352	3.515	1	0.580	4.07E-09	0	14.0	-4.5	5.08E+07
4	1978 169	69224.1	101	3.380	7.373	3.523	1	0.657	4.56E-09	0	-10.5	-2.5	5.03E+07
..													
17261	1978 193	32390.3	110										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
12	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	111	120	1978 193	55200.	1978 217	28200.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 193	55329.4	111	5.175	3.558	2.732	1	0.337	3.75E-09	0	-2.5	-40.6	8.06E+07
2	1978 193	55389.4	111	5.188	3.589	2.745	1	0.363	3.62E-09	0	26.9	-11.6	7.22E+07
3	1978 193	55509.5	111	5.212	3.642	2.768	1	0.395	3.69E-09	0	-6.6	22.8	6.77E+07
4	1978 193	55569.5	111	5.226	3.673	2.780	1	0.411	3.71E-09	0	12.6	-12.7	6.54E+07
..													
15602	1978 217	28174.2	120										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
13	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	121	130	1978	217	50700.	1978	241	19200.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	217	50943.7	121	7.877	3.175	3.689	1	15.563	1.30E-08	0	-50.2	156.5	4.42E+06
2	1978	217	51003.7	121	7.893	3.194	3.698	1	20.792	1.77E-08	0	-31.1	143.9	4.86E+06
3	1978	217	51063.7	121	7.909	3.214	3.707	1	15.698	1.15E-08	0	-11.7	165.4	3.66E+06
4	1978	217	51123.7	121	7.925	3.233	3.716	1	15.592	1.45E-08	0	-77.4	166.7	4.69E+06
...														
8061	1978	241	18938.4	130										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
14	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	131	140	1978	241	36600.	1978	265	9600.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	241	36627.1	131	6.324	-1.019	2.882	1	0.670	3.35E-09	0	17.0	8.6	3.63E+07
2	1978	241	36687.1	131	6.353	-1.008	2.893	1	0.536	3.51E-09	0	-4.1	-1.1	4.74E+07
3	1978	241	36747.1	131	6.382	-0.996	2.905	1	0.522	3.46E-09	0	26.4	-10.0	4.80E+07
4	1978	241	36807.1	131	6.411	-0.985	2.916	1	0.538	3.27E-09	0	-12.8	-31.3	4.40E+07
...														
6116	1978	265	9402.9	140										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
15	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	141	150	1978	265	34200.	1978	288	86400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	265	34202.3	141	8.390	-3.164	3.954	1	0.307	3.02E-09	0	6.3	-15.9	7.12E+07
2	1978	265	34262.3	141	8.414	-3.162	3.962	1	0.313	2.72E-09	0	-23.3	-5.1	6.30E+07
3	1978	265	34322.3	141	8.438	-3.159	3.970	1	0.323	2.74E-09	0	26.8	-10.9	6.15E+07
4	1978	265	34382.3	141	8.463	-3.156	3.977	1	0.349	3.02E-09	0	36.7	25.2	6.26E+07
...														
3670	1978	288	86349.3	150										

(FIL#)	TEXT	ORS	ORE	YR	DAY	SECS	YR	DAY	SECE
16	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	151	160	1978	291	18000.	1978	312	77400.

(DR#)	YR	DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978	291	18057.9	151	12.308	2.032	1.216	1	22.884	1.40E-08	0	-136.3	72.7	2.99E+06
2	1978	291	18117.9	151	12.289	2.037	1.210	1	23.919	1.42E-08	0	-122.7	60.2	3.18E+06
3	1978	291	18177.9	151	12.270	2.042	1.205	1	19.325	9.59E-09	0	-122.8	26.1	2.64E+06
4	1978	291	18237.9	151	12.251	2.047	1.199	1	25.003	1.28E-08	0	-138.9	25.8	2.51E+06
...														
3554	1978	312	77221.1	160										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
17	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	161	170	1978 315	16200.	1978 336	66600.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 315	16251.9	161	9.622	-1.252	0.185	1	13.727	9.23E-09	0	-10.0	-35.6	4.79E+06
2	1978 315	16311.9	161	9.600	-1.239	0.179	1	15.724	1.07E-08	0	-18.1	-41.2	4.80E+06
3	1978 315	16371.9	161	9.579	-1.225	0.174	1	16.899	1.35E-08	0	-6.1	5.7	5.76E+06
4	1978 315	16431.9	161	9.557	-1.212	0.168	1	13.897	1.25E-08	0	-2.2	-25.0	6.49E+06
...													
5748	1978 336	66507.7	170										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
18	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	171	180	1978 337	4500.	1978 360	61200.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 337	4607.6	171	-0.727	-8.258	3.731	1	0.976	6.14E-09	0	7.4	-18.6	4.58E+07
2	1978 337	4667.6	171	-0.717	-8.282	3.739	1	0.861	5.54E-09	0	-30.4	-0.2	4.66E+07
3	1978 337	4727.6	171	-0.706	-8.306	3.747	1	0.943	5.77E-09	0	-38.3	32.3	4.42E+07
4	1978 337	4787.6	171	-0.695	-8.330	3.754	1	0.867	5.80E-09	0	-7.3	-20.8	4.84E+07
...													
7103	1978 360	60660.6	180										

(FIL#)	TEXT	ORS	ORE	YR DAY	SECS	YR DAY	SECE
19	ISEE2 FPE 2D IONS 85. LANL/MPE, G. PASCHMANN, PI	181	190	1978 360	77400.	1979 19	50400.

(DR#)	YR DAY	SEC	ORB	GSE-X	GSE-Y	GSE-Z	E	DEN	ENDEN	F	VX	VY	T
1	1978 360	77580.3	181	-3.869	-4.273	2.785	1	0.425	4.20E-09	0	-17.8	23.8	7.15E+07
2	1978 360	77640.4	181	-3.874	-4.306	2.797	1	0.443	4.16E-09	0	3.3	-8.7	6.80E+07
3	1978 360	77700.4	181	-3.879	-4.339	2.808	1	0.408	4.56E-09	0	-3.6	9.1	8.09E+07
4	1978 360	77760.4	181	-3.884	-4.372	2.820	1	0.460	4.69E-09	0	-28.7	-19.8	7.39E+07
...													
21807	1979 19	49997.1	190										

WDCTAPE: END OF INPUT

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

218 2

D-42231
ISEE-1
10/29/77 – 11/19/79

DUMP OF TAPE X395

INPUT TAPE X395 ON MT3
DATA INPUT HO NF CL

DATA INPUT 40 NF 19 FL 1 2 2 SR 91 1 2 SR 19 LAST 2

FILE 1 RECORD 1 / LENGTH / 44000 BYTES 1477 | 302

(0)	C9E3C5C5	60F140C6	D7C54040	D3C1E2D3	61D4D7C5	6B40E24B	D14B40C2	C1D4C56B	40D74BC9	4B594040
(40)	40F2C440	C9D6D5E2	404040F4	4040F1F0	40F1F9F7	F7F3F1F2	40F8F2F2	F0F04BF0	40F1F9F7	F7F3F1F9
(80)	40F3F2F4	F0F04BF0	F1F9F7F7	40F3F0F2	40F3F2F2	F2F14BF0	404040F4	404040F3	4BF2F6F6	404060F7
(120)	4BF3F7F5	4040403F2	4BF7F6F9	40F14040	40F14BF3	F6F240F8	4BF7F0C5	60F0F940	F0404060	F2F54BF7
(160)	4040360F1	F44BF540	F44BF6F3	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F2	F8F04BF9	404040F4	404040F3
(200)	4BF2F8F6	404060F7	40F8F9F3	404040F2	4BF7F8F1	40F14040	40F14BF3	F3F140F7	4BF9F5C5	60F0F940
(240)	F0404060	F2F14BF0	40404060	F84BF540	F44BF3F3	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F3	F4F04BF9
(280)	404040F4	404040F3	4BF3F0F2	404060F7	4BF9F0F7	404040F2	4BF7F9F0	40F14040	40F14BF2	F8F440F8
(320)	4BF2F3C5	60F1F940	F0404040	60F540F4	40404060	F14BF340	F44BF6F2	C54EF0F7	F1F9F7F7	40F3F0F2
(360)	4BF8F2F4	F0F04BF9	404040F4	404040F3	43F3F2F2	404060F7	4BF9F2F4	404040F2	4BF8F0F2	40F14040
(400)	40F14BF2	F4F140F7	42F8F2C5	60F0F940	F0404060	F1F34BF7	40404060	F64BF840	F44BF5F7	C54EF0F7
(440)	F1F9F7F7	40F3F0F2	40F3F2F4	F6F04BF9	404040F4	404040F3	4BF3F4F2	404060F7	4BF9F4F2	404040F2
(480)	4BF8F1F4	40F14040	40F14BF2	F1F840F7	4BF4F9C5	60F0F940	F0404060	F2F94BF8	404060F2	F24BF940
(520)	F44BF4F5	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F5	F2F04BF8	404040F4	404040F3	4BF3F6F2	404060F7
(560)	4BF9F5F9	4040403F2	4BF3F2F6	40F14040	40F14BF1	F4F340F6	4BF9F2C5	60F0F940	F0404060	F1F94BF9
(600)	404040G0	F74BF840	F44BF3F8	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F5	F8F04BF8	404040F4	404040F3
(640)	45F3F7F7	404060F7	4BF9F7F3	404040F2	4BF8F3F5	40F14040	40F14BF2	F3F540F6	4BF9F4C5	60F0F940
(680)	F0404060	F2F84BF2	404060F1	F94BF140	F44BF0F7	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F6	F4F04BF7
(720)	404040F4	404040F3	43F3F9F7	404060F7	4BF9F9F0	404040F2	4BF8F4F6	40F14040	40F14BF1	F8F840F7
(760)	43F3F2C5	60F0F940	F0404040	60F74BF6	40404060	F14BF040	F44BF5F0	C54EF0F7	F1F9F7F7	40F3F0F2
(800)	40F3F2F7	F0F04BF7	404040F4	404040F3	4BF4F1F8	404060F8	4BF0F0F7	404040F2	4BF8F5F8	40F14040
(840)	40F143F2	F0F040F7	4BF3F8C5	60F0F940	F0404060	F1F64BF9	40404060	F54BF440	F44BF4F5	C54EF0F7
(880)	F1F9F7F7	40F3F0F2	40F8F2F7	F6F04BF7	404040F4	404040F3	4BF4F3F8	404060F8	4BF0F2F5	404040F2
(920)	4BF3F7F0	40F14040	40F14BF1	F4F540F6	43F7F6C5	60F0F940	F0404060	F2F34BF1	404060F1	F14BF140
(960)	F44BF2F7	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F8	F2F04BF7	404040F4	404040F3	4BF4F5F3	404060F8
(1000)	4BF0F3F8	404040F2	4BF8F7F8	40F14040	40F14BF1	F6F140F6	4BF8F5C5	60F0F940	F0404060	F2F84BF3
(1040)	4040360F1	F94BF240	F44BF2F7	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F8	F8F04BF7	404040F4	404040F3
(1080)	43F4F7F3	404060F8	4BF0F5F5	404040F2	4BF8F9F0	40F14040	40F14BF1	F9F140F6	4BF9F1C5	60F0F940
(1120)	F0404060	F2F74BF6	404060F1	F74BF940	F44BF2F0	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F2F9	F4F048F6
(1160)	404040F4	404040F3	43F4F9F3	404060F8	43F0F7F2	404040F2	4BF9F0F2	40F14040	40F14BF1	F7F040F6
(1200)	43F7F4C5	60F0F940	F0404060	F2F64BF7	404060F1	F643F140	F44BF1F7	C54EF0F7	F1F9F7F7	40F3F0F2
(1240)	40F8F3F0	F0F04BF6	404040F4	404040F3	4BF5F1F3	404060F8	4BF8F8F9	404040F2	4BF9F1F3	40F14040
(1280)	40F143F1	F6F640F6	4BF8F5C5	60F0F940	F0404060	F2F645F4	404060F1	F54BF840	F44BF2F5	C54EF0F7
(1320)	F1F9F7F7	40F3F0F2	40F8F3F0	F6F04BF6	404040F4	404040F3	4BF5F2F8	404060F8	4BF1F0F2	404040F2
(1360)	4BF9F2F2	40F14040	40F14BF1	F4F440F6	4BF6F8C5	60F0F940	F0404040	60F84BF7	40404060	F14BF340
(1400)	F44BF2F3	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F3F1	F2F04BF6	404040F4	404040F3	4BF5F4F8	404060F8
(1440)	4BF1F1F9	404040F2	43F9F3F4	40F14040	40F14BF2	F2F140F6	4BF9F9C5	60F0F940	F0404040	60F64BF9
(1480)	40404060	F04BF840	F44BF1F5	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F3F1	F8F04BF5	404040F4	404040F3
(1520)	40F5F6F8	404060F8	4BF1F3F6	404040F2	4BF9F4F5	40F14040	40F14BF2	F6F640F6	4BF7F6C5	60F0F940
(1560)	F0404060	F1F24BF5	40404060	F24BF940	F34BF8F7	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F3F2	F4F04BF5
(1600)	404040F4	404040F3	43F5F8F7	404060F8	4BF1F5F3	404040F2	4BF9F5F7	40F14040	40F14BF1	F6F340F6
(1640)	43F7F3C5	60F0F940	F0404040	60F44BF6	40404060	F04BF440	F44BF1F9	C54EF0F7	F1F9F7F7	40F3F0F2
(1680)	40F8F3F3	F0F04BF4	404040F4	404040F3	4BF6F0F2	404060F8	4BF1F6F5	404040F2	4BF9F6F5	40F14040
(1720)	40F14BF1	F1F340F6	4BF3F6C5	60F0F940	F0404060	F1F64BF6	40404060	F54BF240	F44BF1F4	C54EF0F7
(1760)	F1F9F7F7	40F3F0F2	40F8F3F3	F6F04BF4	404040F4	404040F3	4BF6F2F2	404060F8	4BF1F8F2	404040F2
(1800)	43F9F7F7	40F14040	40F14BF2	F0F040F6	4BF7F6C5	60F0F940	F0404060	F2F24BF0	40404060	F94BF840
(1840)	F44BF0F9	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F3F4	F2F04BF4	404040F4	404040F3	4BF6F4F2	404060F8
(1880)	4BF1F9F8	404040F2	4BF9F8F8	40F14040	40F14BF0	F8F340F5	4BF9F5C5	60F0F940	F0404060	F1F24BF1
(1920)	40404060	F243F640	F34BF9F8	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F3F4	F8F04BF4	404040F4	404040F3
(1960)	43F6F6F2	404060F8	4BF2F1F5	404040F3	4BF0F0F0	40F14040	40F14BF2	F3F240F7	4BF0F6C5	60F0F940
(2000)	F0404060	F2F345F6	404060F1	F143F640	F44BF1F6	C54EF0F7	F1F9F7F7	40F3F0F2	40F8F3F5	F4F04BF4
(2040)	404040F4	404040F3	4BF6F7F6	404060F8	4BF2F2F7	404040F3	4BF0F0F8	40F14040	40F14BF2	F5F440F6
(2080)	4BF4F6C5	60F0F940	F0404060	F2F44BF8	404060F1	F34BF240	F34BF7F3	C54EF0F7	F1F9F7F7	40F3F0F2
(2120)	40F8F3F6	F0F04BF3	404040F4	404040F3	4BF6F9F6	404060F8	4BF2F4F4	404040F3	4BF0F2F0	40F14040
(2160)	40F14BF2	F0F740F6	4BF3F9C5	60F0F940	F0404060	F1F84BF3	40404060	F64BF540	F34BF8F3	C54EF0F7
(2200)	F1F9F7F7	40F3F0F2	40F8F3F6	F6F04BF3	404040F4	404040F3	4BF7F1F6	404060F8	4BF2F6F0	404040F3

(320)	4BF3F7C5	60F0F940	F0404060	F1F64BF2	40404060	F64BF440	F14BF1F1	C54EF0F8	F1F9F7F9	4040F1F9
(360)	40F5F3F4	F7F74BF5	40F1F9F0	404040F2	4BF6F7F9	404060F5	4BF7F4F1	404060F0	4BF8F4F4	40F14040
(400)	40F04BF4	F4F640F6	4BF3F6C5	60F0F940	F0404060	F2F84BF7	404060F2	F04BF140	F14BF0F3	C54EF0F8
(440)	F1F9F7F9	4040F1F9	40F5F3F5	F3F74BF8	40F1F9F0	404040F2	4BF6F8F1	404060F5	4BF7F0F5	404060F0
(480)	4BF8F4F8	40F14040	40F04BF4	F9F240F6	4BF3F1C5	60F0F940	F0404060	F1F54BF7	40404060	F44BF640
(520)	F94BF2F9	C54EF0F7	F1F9F7F9	4040F1F9	40F5F3F5	F9F74BF8	40F1F9F0	404040F2	4BF6F8F2	404060F5
(560)	4BF6F7F0	404060F0	4BF8F5F2	40F14040	40F04BF3	F8F540F6	4BF1F1C5	60F0F940	F0404060	F2F04BF2
(600)	40404060	F54BF040	F14BF1F5	C54EF0F8	F1F9F7F9	4040F1F9	40F5F3F6	F5F74BF7	40F1F9F0	404040F2
(640)	4BF6F8F4	404060F5	4BF6F3F4	404060F0	4BF8F5F5	40F14040	40F04BF4	F2F440F6	4BF4F6C5	60F0F940
(680)	F0404060	F2F04BF5	40404060	F84BF340	F14BF1F0	C54EF0F8	F1F9F7F9	4040F1F9	40F5F3F7	F1F74BF7
(720)	40F1F9F0	404040F2	4BF6F8F6	404060F5	4BF5F9F8	404060F0	4BF8F5F9	40F14040	40F04BF4	F6F940F6
(760)	4BF3F0C5	60F0F940	F0404040	60F44BF7	40404060	F04BF440	F94BF8F5	C54EF0F7	F1F9F7F9	4040F1F9
(800)	40F5F3F7	F7F74BF7	40F1F9F0	404040F2	4BF6F8F7	404060F5	4BF5F6F3	404060F0	4BF8F6F3	40F14040
(840)	40F04BF4	F6F840F5	4BF7F9C5	60F0F940	F0404060	F1F14BF0	40404060	F24BF240	F84BF9F7	C54EF0F7
(880)	F1F9F7F9	4040F1F9	40F5F3F5	F3F74BF7	40F1F9F0	404040F2	4BF6F8F9	404060F5	4BF5F2F7	404060F0
(920)	4BF0F6F7	40F14040	40F04BF4	F1F640F5	4BF8F3C5	60F0F940	F0404060	F3F24BF1	404060F3	F74BF640
(960)	F14BF0F1	C54EF0F8	F1F9F7F9	4040F1F9	40F5F3F8	F9F74BF6	40F1F9F0	404040F2	4BF6F9F0	404060F5
(1000)	4BF4F9F0	404060F0	4BF8F7F1	40F14040	40F04BF3	F4F340F5	4BF8F0C5	60F0F940	F0404060	F3F04BF9
(1040)	404060F0	F64BF540	F14BF2F2	C54EF0F8	F1F9F7F9	4040F1F9	40F5F3F9	F5F74BF6	40F1F9F0	404040F2
(1080)	4BF6F9F2	404060F5	4BF4F5F4	404060F0	4BF8F7F4	40F14040	40F04BF4	F2F140F6	4BF0F0C5	60F0F940
(1120)	F0404040	60F54BF9	40404060	F04BF640	F14BF0F3	C54EF0F8	F1F9F7F9	4040F1F9	40F5F4F0	F1F74BF6
(1160)	40F1F9F0	404040F2	4BF6F9F3	404060F5	4BF4F1F8	404060F0	4BF8F7F8	40F14040	40F04BF3	F9F740F6
(1200)	4BF1F6C5	60F0F940	F0404060	F2F94BF8	404060F2	F24BF940	F14BF1F2	C54EF0F8	F1F9F7F9	4040F1F9
(1240)	40F5F4F0	F7F74BF6	40F1F9F0	404040F2	4BF6F9F5	404060F5	4BF3F8F1	404060F0	4BF8F8F2	40F14040
(1280)	40F04BF3	F7F140F5	4BF8F0C5	60F0F940	F0404060	F1F74BF9	40404060	F64BF140	F14BF1F3	C54EF0F8
(1320)	F1F9F7F9	4040F1F9	40F5F4F1	F3F74BF5	40F1F9F0	404040F2	4BF6F9F6	404060F5	4BF3F4F5	404060F0
(1360)	4BF8F0F6	40F14040	40F04BF3	F8F640F5	4BF6F3C5	60F0F940	F0404060	F3F24BF1	404060F3	F54BF840
(1400)	F14BF0F6	C54EF0F8	F1F9F7F9	4040F1F9	40F5F4F1	F9F74BF5	40F1F9F0	404040F2	4BF6F9F7	404060F5
(1440)	4BF3F0F8	404060F0	4BF8F8F9	40F14040	40F04BF3	F9F140F5	4BF9F1C5	60F0F940	F0404060	F2F44BF5
(1480)	404060F1	F24BF940	F14BF0F9	C54EF0F8						

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
19	234	235	4400	0	0	0	0	0	0

EOJ DUMP STOPPED AFTER FILE 19 # OF PERMANENT READ ERRORS 0

START TIME 01/30/81 14:03:27 STOP TIME 01/30/81 14:06:44