ISEE 1 AND 2
HIGH RESOLUTION BOW SHOCK MAGNETOMETER
77-102A-04J, 77-102B-04H

ISEE 3
3 CHANNEL FLUX, 256 SECOND OMNI SECTOR
78-079A-08A

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

HIGH RESOL. BOW SHOCK MAGNETOMETER

77-102A-04J SPMS-00290

77-102B-04H

These data sets have been restored. There was originally one 9-track, 1600 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 3081 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR005320	DS005320	D047107	1 - 92	10/25/77 - 12/25/78

ISEE 3

3-CH PROTN FLUX, 256-S OMNI&SECTOR

78-079A-08A SPMS-00248

This data set has been restored. There was originally one 9-track, 800 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 3081 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR005301	DS005301	D047399	1 - 139	08/15/78 - 12/31/78

REQ AGENT	REQ NUMBER	ACQ NUMBER
DEW	V0126	HKH

ISEE 3

3 CHANNEL FLUX 256 SECOND SECTOR DATA

78-079A-08A

THIS DATA SET CONSISTS OF 1 MAGNETIC TAPE. THE TAPE IS BINARY, 9 TRACK, 800 BPI, AND HAS 139 FILES. THE D AND C NUMBER ARE AS FOLLOWS:

D#	C#	TIME SPAN
D-47399	C-22164	08/15/78-12/31/78

REQ AGENT	REQ NUMBER	ACQ AGENT
DEW	V0128	HKH

ISEE 1 AND 2

HIGH RESOLUTION BOW SHOCK MAGNETOMETER

77-102A-04J AND 77-102B-04H

THIS DATA SET CONSISTS OF 1 MAGNETIC TAPE. THE TAPE IS BINARY. 9 TRACK, 1600 BPI, AND HAS 92 FILES. THE TAPE WAS CREATED ON AN IBM 360/91 COMPUTER. THE D AND C NUMBER ARE AS FOLLOWS:

D#	C#	TIME SPAN
D-47107	C-22180	10/25/77-12/25/78

78-079A-08A
ISEE 3

78-079A-08A

The Data Tape for the Energetic Proton Anisotropy Spectrometer (EPAS) on the ISEE-3 Spacecraft

1

The details of this experiment may be found in Balogh et al 1978 and van Rooijen et al 1979. From a data handling viewpoint the essential factor is that the experiment records data over an integral number of spacecraft spins, so that the data collection time is asynchronous with respect to the (fixed) telemetry sampling period, since the telemetry sampling period is not equivalent to an integral number of spin periods. To deal with the variability between these two time periods, the internal, on-board data processing 'adjusts' the number of spin periods over which data is sampled, so that two periods remain approximately in phase. Thus the telemetry sampling period is 16 seconds while the spin period is $\sim$ 3 seconds, so that a typical sequence of data sampling times would be 15 seconds (5 spins), 15 seconds (5 spins), 18 seconds (6 spins), corresponding to a total of 48 seconds ($\equiv$ 3 telemetry sampling periods).

This non-constancy of the data sampling time causes some complication in the production of a data tape containing data 'averaged' over 256 seconds. An additional problem is the desire to avoid explicit floating point numbers on the tape which would give a consequent machine dependence for reading the tape.

A complete cycle of the telemetry sampling procedure takes 128 seconds i.e. 8 x 16 or 8 Minor Frames $\equiv$ 1 Major Frame. To produce the output tape, data is sampled over 2 Major Frames, corresponding to the nearest integral number of spacecraft spins to 256 seconds. If there is a time break, or bad data in one of the Major Frames, then data may be averaged only over 128 seconds i.e. one complete Major Frame, but data is never averaged over less than a complete Major Frame.

The format of the data record is given in Table 2. To provide an exact time sampling period, the number of spin periods over which the data have been averaged is given for each telescope. It is possible that the number of spin periods 'sampled' will vary between telescopes, although this is rare. The spin period of the spacecraft varies slowly with time, but may be taken as 3.04 seconds in 1978.

The sector counts given for each telescope, for the energy channel 91-147 keV, have not been normalised in any way, i.e. they represent the number of counts that occurred within the given number of spin periods. Since they are expressed in integer form overflow is possible. If this occurs in any of the 24 values, an overflow flag is set, and the overflowed value is replaced by zeros.

The isotropic component values obtained by averaging over the 3 telescope of the experiment could conceivably overflow if expressed in integer form. To cope with this situation the values have been expressed as two integer values which are converted into floating point by the formula given in Table 2. It has been normalised and expressed in units of particles cm^{-2} $sterad^{-1}$ sec^{-1} keV^{-1}.

The method by which the isotropic component was calculated is given in Appendix I.

Format of the ISEE-3 (EPAS) tape

The tape is 9 track, 800 bytes per inch.

There is one file per day.

Each file contains equally organised physical records, with length of 1280 words (= 2560 bytes), in integer form.

Each physical record contains 32 logical records (each 40 words long).

The first logical record of the physical record is a record label. The remaining logical records are either data records or buffer records. Where buffer records exist, they are always at the end of the last physical record of the file (i.e. day).

Record Label

Index	Content	Length (16 bit word)
1	Year	1
2	+Day Number	1
3,4	*Time of the first data record in the physical record	2
5,6	*Time of the last data record in the physical record	2
7	Number of logical records containing data in the physical record	1
8-40	Spare	33
		40

TABLE 1

* Time is expressed in two integers. The first is the hours of the day, the second is the seconds of the hour.

+ January 1st ≡ Day Number 1

Data Record

Index	Content	Length (16 bit word)
1,2	*Start time of data record	2
3	Number of spins, telescope 1	1
4	Number of spins, telescope 2	1
5	Number of spins, telescope 3	1
6	+Overflow flag 1 if overflow occurred in the counts, 0 otherwise	1
7,8	**Isotropic component, 35-56 keV	2
9,10	Isotropic component, 91-147 keV	2
11,12	Isotropic component, 384-620 keV	2
13-20	8 sector counts, 91-147 keV, telescope 1	8
21-28	8 sector counts, 91-147 keV, telescope 2	8
29-36	8 sector counts, 91-147 keV, telescope 3	8
37-40	Spare	4
		40

TABLE 2

** The isotropic component is a floating point number, stored in two integers as follows : if I1 and I2 are the first and second integers respectively, R the floating point number can be obtained by the FORTRAN statement :

```
R = FLOAT(I1)*2.0**I2
```

+ This flag is set if overflow occurs in any of the sector counts. If overflow does occur the number is replaced by zeros.

Appendix I

Spherical harmonic analysis shows that the isotropic component of the counting rate is given by the formula

$$I = \frac{1}{\Sigma} [a_1 F_1 + a_2 F_2 + a_3 F_3]$$

where $F_i \equiv$ sum of the sector counts of telescope i

$a_i \equiv$ weighting factor for telescope i

$\Sigma = a_1 + a_2 + a_3$

and $a_1 = -0.12448$

$a_2 = 2.23879$

$a_3 = 1.43060$

PA

5

February 13,1986

Note on Data Set 78-079A-08A

In the data records the "istropic components", words 7 to 12, are expressed in units of differential flux, particles/cm^2-sterad-sec-Kev. They are caculated by computing the isotropic component of the counting rate as in Appendix I and dividing this by the geometrical factor (0.05 cm^2-sterad) and by the time period (number of spins x 3 sec/spin).

77-102A-04J,77-102B-04H
ISEE 1 AND 2

National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland
20771

NASA

Reply to Attn of: 601

Dr. C. T. Russell
Institute of Geophysics and Planetary Physics
University of California, Los Angeles
Los Angeles, CA 90024

Dear Dr. ~~Russell~~ Chris:

Thank you for the magnetic tape containing the highest resolution magnetometer data for ISEE 1 and 2 data across the bow shock together with documentation. As you have indicated in your letter of November 16, 1981, we will maintain this as a proprietary data set for all non-ISEE investigators. Since the ISEE community is rather large, we may occasionally send someone to you who is considered a member of that group. However, we would rather err on that side of criterion.

In response to your question concerning submissions by Paschmann, I am enclosing two data set brief descriptions that contain the information you wish. Notice the first is ISEE 1 data and the second is ISEE 2 data; the time period is in excess of one year. If you wish these data, please let us know.

I have heard the pre-CDAW (or CDAW 6.0, as I call it) went well. I would like your impressions at some convenient time.

Sincerely,

James I. Vette
Director, NSSDC

Enclosure

UNIVERSITY OF CALIFORNIA, LOS ANGELES UCLA

BERKELEY · DAVIS · IRVINE · LOS ANGELES · RIVERSIDE · SAN DIEGO · SAN FRANCISCO SANTA BARBARA · SANTA CRUZ

Institute of Geophysics and Planetary Physics
Los Angeles, California 90024

November 16, 1981

Dr. J.A. Vette
Code 601/NSSDC
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Jim:

Enclosed please find a magnetic tape containing our highest resolution magnetometer data for 46 intervals of both ISEE-1 and -2 data across the bow shock together with documentation. I intend this for full release to the scientific community. However, for the time being I would like to restrict its distribution to the ISEE community. If there are requests from non-ISEE investigators I would like to deal with them on a case by case basis.

Also, could you tell me whether Paschmann has submitted summary plots or tapes of his fast plasma analyzer for a significant period of time?

Hope all is well with NSSDC.

Sincerely,

C.T. Russell

CTR:pr
enclosure

P.S. Also find enclosed a dump of the first and last record of each file.

The ISEE 1 and 2 Shock Tape

C.T. Russell and W.A. Livesey

Institute of Geophysics and Planetary Physics

University of California

Los Angeles, California 90024

Institute of Geophysics and Planetary Physics

Publication No. 2264

October 1981

Introduction

One of the most important attributes of the ISEE 1 and 2 missions is its dual spacecraft nature which allows timing of boundary motions, etc. However, to utilize this capability access to high resolution data on both spacecraft is necessary. To this end and to encourage the study of the bow shock, we have selected 46 intervals of high resolution ISEE 1 and 2 magnetometer data and placed them on a single tape. This report documents that tape and the solar wind conditions at the time of those shocks to the best of our knowledge at the time. We have used the NSSDC Interplanetary Data Book, the MIT Imp 7 and 8 solar wind data, data from the Los Alamos Solar Wind Experiment and/or the CNR/LPS Frascati Solar Wind Experiment whenever available. We are very grateful to these experimenters for their sharing of their data files with us. On the other hand, some of these data were preliminary and all plasma parameters should be rechecked before publication. The values in this document should be used only as a guide. The angles between the shock normal and the IMF, θ_{BN}, has been calculated using both a model normal and coplanarity and should be accurate to within $\pm 5°$. However, users of these data are encouraged to make their independent estimates also.

Included in this report are 4 second resolution plots covering the intervals on the tape plus intervals on either side for reference. The 4 second data are 12 second averages overlapped by 2/3 so they contain little high frequency information. The sample rate on the tape is either 4 or 16 samples per second. (These samples are overlapped by one-half in the instrument).

While providing this tape is meant to encourage work on the shock, it is not meant to discourage cooperation. We ourselves plan to continue study of these (and other) shocks and welcome interchange of data and ideas and stand willing to assist in the analysis.

The Tape

The tape is a 9-track 1600 BPI odd parity tape. Each block contains 100 logical records. Each logical record contains 12 32-bit integers.

Word	Description
1	Year eg '77
2	Day (1=Jan 1)
3	Month
4	Day of month
5	Hour
6	Minute
7	Second
8	Millisecond
9	Magnetic field x component in milligammas
10	Magnetic field Y "
11	Magnetic field Z "
12	Total magnetic field "

Missing data are filled with -9999999. The coordinate system is spacecraft coordinates which is close to solar ecliptic but is slightly ($\lesssim 2°$) different as well as slightly different from each other.

The Intervals

The following table gives the start and stop time, the bit rate, the magnetosonic Mach number, beta (the ratio of thermal to magnetic energy density) and θ_{BN} (the angle between the magnetic field upstream and the shock normal.) There are 92 files. The first 46 are ISEE 1 and the next 46 are ISEE 2 for the approximate same time intervals. Thus, files 1 and 47 form a pair and 46 and 92 form a pair.

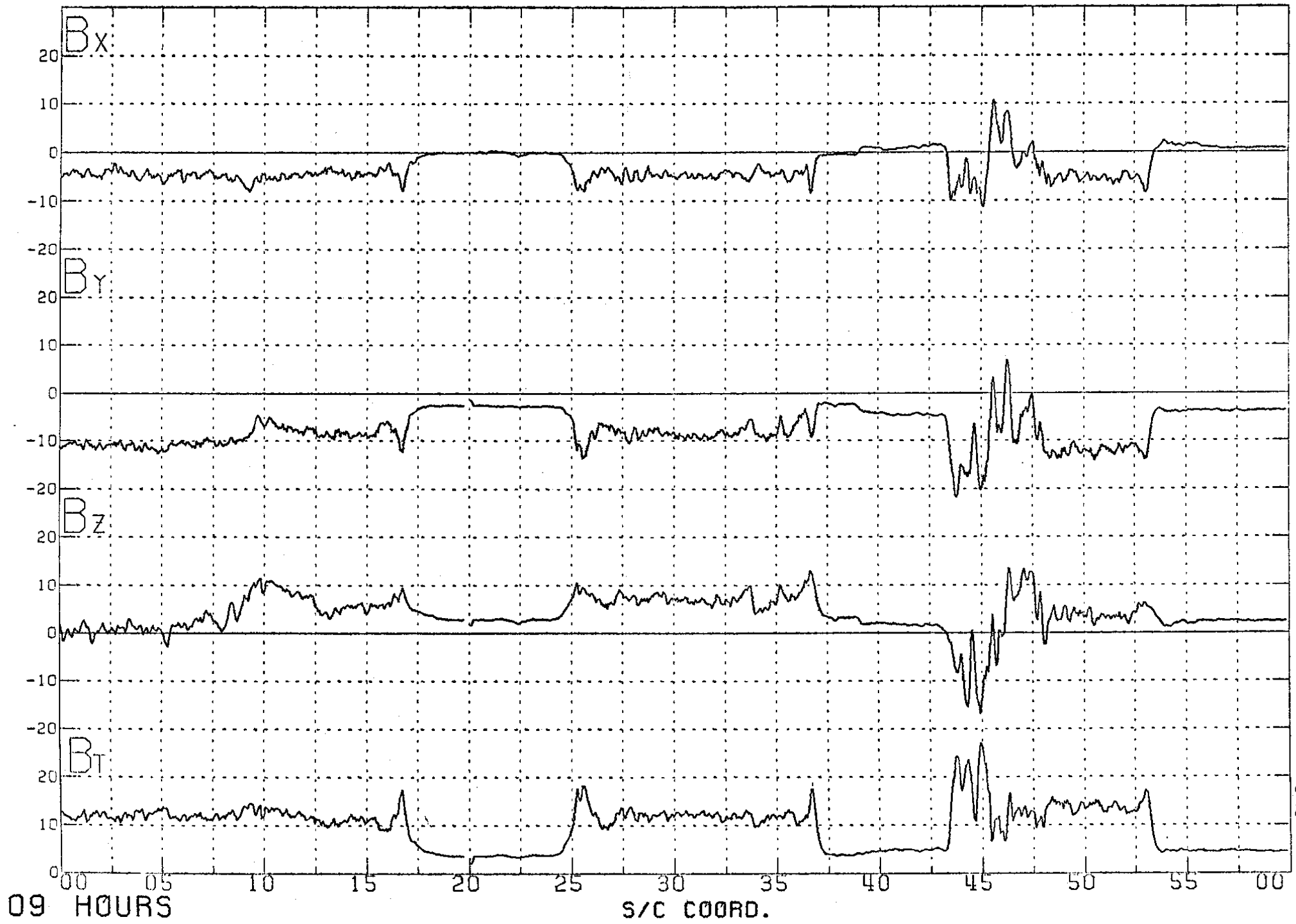
							Preliminary Solar Wind Conditions		
File	Year	Day of Year	Date	Start	Stop	Bit Rate	Mms	β	θ_{BN}
1.	77	298	10/25	0910	0949	L	6.0	4.0	62°
2.	77	309	11/5	1320	1325	L	4.4	1.0	69°
3.	77	311	11/7	2250	2255	H	2.0	12.0	82°
4.	77	312	11/8	1850	1855	L	4.0	10.0	61°
5.	77	320	11/16	0305	0310	H	3.5	1.0	76°
6	77	322	11/18	1148	1154	L	3.5	2.5	52°
7.	77	324	11/20	1946	1952	L	3.7	1.9	54°
8.	77	324	11/20	2043	2048	L	3.7	1.9	40°
9.	77	330	11/26	0617	0622	H	2.3	0.7	66°
10.	77	335	12/1	2217	2233	L	5.2	2.1	58°
11.	77	335	12/1	2250	2300	L	5.4	2.9	56°
12.	77	336	12/2	1907	1913	L	2.9	1.0	83°
13.	77	336	12/2	2011	2016	L	2.6	0.4	72°
14	77	336	12/2	2021	2033	L	2.9	0.5	63°
15.	77	339	1215	0532	0538	L	2.7	0.6	54°
16.	77	344	12/10	0630	0635	L	2.7	1.4	50°
17.	77	347	12/13	1705	1720	H	5.1	0.8	45°
18.	77	349	12/15	0307	0313	L	3.4	1.6	59°

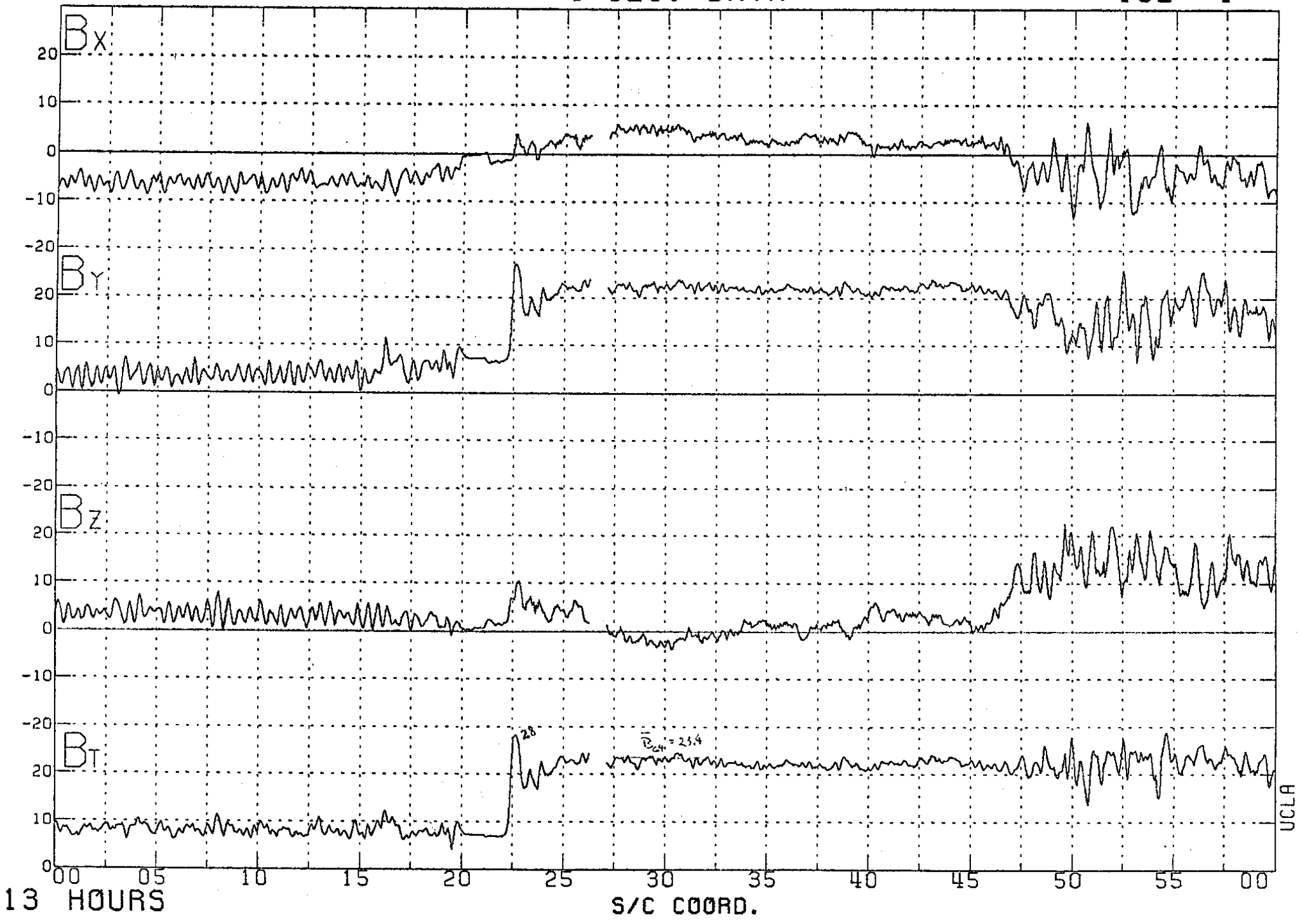
Preliminary Solar Wind Conditions

File	Year	Day of Year	Date	Start	Stop	Bit Rate	Mms	β	θ_{BN}
19.	77	363	12/29	0913	0923	L	1.6	0.2	66°
20.	78	1	1/1	1739	1754	H	6.0	6.5	87°
21.	78	6	1/6	0327	0333	L	4.0	0.5	65°
22.	78	6	1/6	0342	0347	L	4.0	0.5	75°
23.	78	6	1/6	0429	0436	L	3.0	0.2	53°
24.	78	6	1/6	0518	0523	L	3.0	0.2	52°
25.	78	6	1/6	0533	0546	L	4.0	0.2	42°
26.	78	6	1/6	0622	0627	L	3.5	0.4	49°
27.	78	6	1/6	0700	0705	L	3.7	0.3	49°
28.	78	6	1/6	0717	0722	L	3.5	0.6	50°
29.	78	204	7/23	0020	0050	H	3.8	0.8	71°
30.	78	206	7/25	0345	0400	L	4.4	1.2	86°
31.	78	216	8/4	1710	1725	H	4.4	1.0	87°
32.	78	239	8/27	2003	2010	H	2.1	0.1	70°
33.	78	239	8/27	2022	2028	H	1.9	0.1	65°
34.	78	239	8/27	2042	2048	H	2.0	0.1	64°
35.	78	239	8/27	2051	2057	H	2.0	0.1	65°
36.	78	239	8/27	2102	2116	H	2.0	0.1	65°
37.	78	240	8/28	0006	0012	H	1.7	0.03	62°
38.	78	240	8/28	0151	0157	H	2.0	0.1	84°
39.	78	240	8/28	0348	0354	H	2.3	0.1	63°
40.	78	248	9/5	0003	0019	L	5.8	1.9	65°
41.	78	251	9/8	0530	0544	H	4.1	1.0	78°

Preliminary Solar Wind Conditions

File	Year	Day of Year	Date	Start	Stop	Bit Rate	Mms	β	θ_{BN}
42	78	251	9/8	0558	0612	H	4.1	1.0	78°
43	78	269	9/26	1545	1615	L	4.0	0.4	58°
44.	78	269	9/26	1635	1645	L	4.8	0.6	63°
45.	78	275	10/2	0325	0355	H	5.7	1.0	64°
46.	78	359	12/25	1340	1410	H	2.2	0.3	85°


77 OCT 25 DAY: 298
4 SEC. DATA
ISEE-1
BX
BY
BZ
BT
20
10
0
-10
-20
00
05
10
15
20
25
30
35
40
45
50
55
00
09 HOURS
S/C COORD.
UCLA


77 NOV 5 DAY: 309 4 SEC. DATA ISE-1
Bx
By
Bz
BT
20
10
0
-10
-20
28
$\bar{B}_{CH}$ = 23.4
00 05 10 15 20 25 30 35 40 45 50 55 00
13 HOURS
S/C COORD.
UCLA
APR 8 80

S 379 IS A 9-TRACK, 1600-BPI, ODD-PARITY TAPE. 81 289 OCT 16 15:41:04.860
-- UCLA --

A RECORD (BLOCK) CONTAINS 100 LOGICAL RECORDS.
EACH LOGICAL RECORD CONTAINS 12 32-BIT INTEGER WORDS.

WORD 1 ...YEAR, E.G., 77
WORD 2 ...DAY OF YEAR, E.G., 234 (JAN 1 = 1)
WORD 3 ...MONTH OF YEAR, E.G., 8
WORD 4 ...DAY OF MONTH, E.G., 22
WORD 5 ...HOUR OF DAY, E.G., 13
WORD 6 ...MINUTE OF HOUR, E.G., 56
WORD 7 ...SECOND OF MINUTE, E.G., 59
WORD 8 ...MILLISECOND, E.G., 678
WORD 9 ...MAG. FIELD COMPONENT BX IN MILLIGAMMAS
WORD 10 ...MAG. FIELD COMPONENT BY IN MILLIGAMMAS
WORD 11 ...MAG. FIELD COMPONENT BZ IN MILLIGAMMAS
WORD 12 ...MAG. FIELD MAGNITUDE BT IN MILLIGAMMAS

MISSING DATA ARE FILLED WITH -9999999 .

THE FOLLOWING IS THE PARTIAL DUMP OF THIS TAPE
PRINTED BY FORTRAN FORMAT: (1X,8I4,4I8).

files 1-46 contain ISEE-1 data

files 47-92 contain ISEE-2 data

---------- FILE 1 ----------
>>>>>>> BLOCK # 1 <<<<<<<<

77	298	10	25	9	10	0	84	5895	7356	5499	10652
77	298	10	25	9	10	0	334	5989	7048	7445	11873
77	298	10	25	9	10	0	584	6573	6311	8850	12703
77	298	10	25	9	10	0	834	7206	5524	10083	13569
77	298	10	25	9	10	1	84	6938	4946	10329	13383
77	298	10	25	9	10	1	334	6985	4822	9169	12495
77	298	10	25	9	10	1	584	7488	5663	8749	12827
77	298	10	25	9	10	1	834	7977	6160	9568	13897
77	298	10	25	9	10	2	84	8613	6270	10401	14889
77	298	10	25	9	10	2	334	8868	6005	10716	15151
77	298	10	25	9	10	2	584	8723	5665	10649	14886
77	298	10	25	9	10	2	834	8299	5744	10912	14865
77	298	10	25	9	10	3	84	8067	5333	12043	15446
77	298	10	25	9	10	3	334	8214	4251	13693	16450
77	298	10	25	9	10	3	584	8388	4310	13766	16687
77	298	10	25	9	10	3	834	7906	5468	13087	16239
77	298	10	25	9	10	4	84	7406	6826	12805	16292
77	298	10	25	9	10	4	334	6930	7588	12573	16239
77	298	10	25	9	10	4	584	6957	7753	12471	16249
77	298	10	25	9	10	4	834	7114	7752	12470	16316
77	298	10	25	9	10	5	84	7041	7522	12137	15920
77	298	10	25	9	10	5	334	6893	6670	11550	15013
77	298	10	25	9	10	5	584	7255	5692	11231	14532
77	298	10	25	9	10	5	834	7964	4950	11098	14530
77	298	10	25	9	10	6	84	8511	4303	11036	14586
77	298	10	25	9	10	6	334	8691	3765	10940	14471
77	298	10	25	9	10	6	584	8527	3514	10783	14177
77	298	10	25	9	10	6	834	8086	3567	10522	13742
77	298	10	25	9	10	7	84	7753	3406	10501	13490
77	298	10	25	9	10	7	334	7672	3092	10991	13685
77	298	10	25	9	10	7	584	7872	2807	11487	14206
77	298	10	25	9	10	7	834	7776	2671	11590	14211
77	298	10	25	9	10	8	84	7297	2309	11641	13932
77	298	10	25	9	10	8	334	6823	2068	11873	13849
77	298	10	25	9	10	8	584	6621	2438	11845	13787
77	298	10	25	9	10	8	834	6409	2946	11639	13605
77	298	10	25	9	10	9	84	6176	3242	11180	13178
77	298	10	25	9	10	9	334	6016	3731	10846	12952
77	298	10	25	9	10	9	584	5848	4017	10958	13054
77	298	10	25	9	10	9	834	6082	4091	11411	13563
77	298	10	25	9	10	10	84	6273	4687	11472	13890
77	298	10	25	9	10	10	334	6170	4549	10738	13194
77	298	10	25	9	10	10	584	6647	4007	10093	12732
77	298	10	25	9	10	10	834	6748	3813	9459	12229
77	298	10	25	9	10	11	84	6460	3405	8908	11519
77	298	10	25	9	10	11	334	6554	3489	9078	11725
77	298	10	25	9	10	11	584	7021	3913	9333	12318
77	298	10	25	9	10	11	834	7641	3709	9530	12766
77	298	10	25	9	10	12	84	8074	3114	9852	13113
77	298	10	25	9	10	12	334	7977	2749	10248	13274
77	298	10	25	9	10	12	584	7346	2599	10365	12968
77	298	10	25	9	10	12	834	6660	2576	9962	12257
77	298	10	25	9	10	13	84	6407	2912	9763	12035
77	298	10	25	9	10	13	334	6059	3261	9937	12087
77	298	10	25	9	10	13	584	5715	3085	10361	12228
77	298	10	25	9	10	13	834	5597	2892	10828	12528
77	298	10	25	9	10	14	84	5426	3027	10851	12504
77	298	10	25	9	10	14	334	5383	3354	10858	12575

```
 77 298      25   9  10  14 584    5742    3979   11399   13369
 77 298  10  25   9  10  14 834    5799    4410   12175   14153
 77 298  10  25   9  10  15  84    5537    4296   11843   13761
 77 298  10  25   9  10  15 334    5712    4259   10865   12993
 77 298  10  25   9  10  15 584    5952    4108   10791   12990
 77 298  10  25   9  10  15 834    6468    3785   11273   13537
 77 298  10  25   9  10  16  84    6517    3772   11396   13659
 77 298  10  25   9  10  16 334    6121    3841   10994   13157
 77 298  10  25   9  10  16 584    5687    3666   10866   12801
 77 298  10  25   9  10  16 834    5689    2791   10894   12603
 77 298  10  25   9  10  17  84    5762    2227   11061   12669
 77 298  10  25   9  10  17 334    5419    1922   11471   12828
 77 298  10  25   9  10  17 584    5988    1990   11920   13113
 77 298  10  25   9  10  17 834    4318    2225   11554   12534
 77 298  10  25   9  10  18  84    4267    2213   10761   11786
 77 298  10  25   9  10  18 334    4604    2289   11176   12450
 77 298  10  25   9  10  18 584    4566    3480   11984   13289
 77 298  10  25   9  10  18 834    4853    3975   11579   13169
 77 298  10  25   9  10  19  84    5369    4577   10585   12721
 77 298  10  25   9  10  19 334    6019    4853    9983   12623
 77 298  10  25   9  10  19 584    6693    4958    9812   12871
 77 298  10  25   9  10  19 834    7479    4773    9868   13270
 77 298  10  25   9  10  20  84    8599    4268    9776   13639
 77 298  10  25   9  10  20 334    9434    3711    9589   13955
 77 298  10  25   9  10  20 584    9919    3315    9552   14164
 77 298  10  25   9  10  20 834    9763    2993    9797   14152
 77 298  10  25   9  10  21  84    9674    2540   10399   14429
 77 298  10  25   9  10  21 334    9903    2545   10903   14948
 77 298  10  25   9  10  21 584    9671    2856   10976   14905
 77 298  10  25   9  10  21 834    9251    3033   11135   14791
 77 298  10  25   9  10  22  84    8685    3224   11296   14609
 77 298  10  25   9  10  22 334    8092    3195   11248   14220
 77 298  10  25   9  10  22 584    7532    2906   11360   13936
 77 298  10  25   9  10  22 834    7318    2766   11807   14164
 77 298  10  25   9  10  23  84    6946    3202   11844   14100
 77 298  10  25   9  10  23 334    6594    3552   11421   13658
 77 298  10  25   9  10  23 584    6478    3989   11438   13737
 77 298  10  25   9  10  23 834    6144    4059   11553   13701
 77 298  10  25   9  10  24  84    6027    4270   11336   13530
 77 298  10  25   9  10  24 334    5548    4889   10852   13132
 77 298  10  25   9  10  24 584    5233    4816   10329   12541
 77 298  10  25   9  10  24 834    5251    4465    9099   11415

>>>>>>> BLOCK #      97 (THE LAST BLOCK)

 77 298  10  25   9  49  58 948   -6489   -4665    8068   11357
 77 298  10  25   9  49  59 198   -5858  -10412   10253   15744
 77 298  10  25   9  49  59 448   -4957  -14697   10025   18468
 77 298  10  25   9  49  59 698   -4792  -16865    7672   19138
 77 298  10  25   9  49  59 948   -4310  -17253    5132   18509
 77 298  10  25   9  50   0 198   -4697  -16757    2067   17525
 77 298  10  25   9  50   0 448   -5104  -16744    -644   17516
 77 298  10  25   9  50   0 698   -4586  -14723   -1721   15517
 77 298  10  25   9  50   0 948   -4455  -11157      66   12014
 77 298  10  25   9  50   1 198   -5633   -8512    2254   10453
 77 298  10  25   9  50   1 448   -6666   -7045    2495   10015
 77 298  10  25   9  50   1 698   -6148   -6269    5460   10340
 77 298  10  25   9  50   1 948   -4153   -9171    9110   13578
 77 298  10  25   9  50   2 198   -1699  -13382    9313   16391
 77 298  10  25   9  50   2 448   -2087  -17061    8352   19110
 77 298  10  25   9  50   2 698   -3289  -19336    4790   20190
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------------------- FILE 2 ------------------

>>>>>>> BLOCK # 1 <<<<<<<<

77	309	11	5	13	20	0	200	-1298	8363	399	8472
77	309	11	5	13	20	0	450	-1334	8375	526	8497
77	309	11	5	13	20	0	700	-1202	8351	669	8464
77	309	11	5	13	20	0	950	-1164	8346	534	8444
77	309	11	5	13	20	1	200	-1130	8132	259	8214
77	309	11	5	13	20	1	450	-842	8433	261	8479
77	309	11	5	13	20	1	700	-941	8486	573	8558
77	309	11	5	13	20	1	950	-1032	7923	530	8008
77	309	11	5	13	20	2	200	-1145	7617	346	7710
77	309	11	5	13	20	2	450	-1132	7583	600	7690
77	309	11	5	13	20	2	700	-579	7738	517	7777
77	309	11	5	13	20	2	950	66	8307	97	8308
77	309	11	5	13	20	3	200	22	8581	169	8583
77	309	11	5	13	20	3	450	-99	8214	442	8226
77	309	11	5	13	20	3	700	-196	7972	422	7986
77	309	11	5	13	20	3	950	-216	7913	664	7943
77	309	11	5	13	20	4	200	69	8071	736	8105
77	309	11	5	13	20	4	450	152	7934	387	7945
77	309	11	5	13	20	4	700	-37	7699	407	7710
77	309	11	5	13	20	4	950	-216	7812	704	7847
77	309	11	5	13	20	5	200	-131	8059	563	8080
77	309	11	5	13	20	5	450	-30	8112	529	8129
77	309	11	5	13	20	5	700	-76	7965	620	7989
77	309	11	5	13	20	5	950	-162	7711	283	7718
77	309	11	5	13	20	6	200	14	7705	174	7707
77	309	11	5	13	20	6	450	66	7769	204	7772
77	309	11	5	13	20	6	700	-39	7796	149	7798
77	309	11	5	13	20	6	950	-342	7647	256	7659
77	309	11	5	13	20	7	200	-294	7514	405	7531
77	309	11	5	13	20	7	450	-257	7617	274	7626
77	309	11	5	13	20	7	700	-211	7581	340	7591
77	309	11	5	13	20	7	950	108	7596	258	7601
77	309	11	5	13	20	8	200	-113	7760	173	7763
77	309	11	5	13	20	8	450	-288	7482	392	7498
77	309	11	5	13	20	8	700	-231	7454	361	7466
77	309	11	5	13	20	8	950	-518	7259	540	7297
77	309	11	5	13	20	9	200	-184	7380	652	7411
77	309	11	5	13	20	9	450	-224	7589	215	7595
77	309	11	5	13	20	9	700	-340	7351	333	7366
77	309	11	5	13	20	9	950	-197	7585	565	7609
77	309	11	5	13	20	10	200	-166	7338	439	7353
77	309	11	5	13	20	10	450	-76	7053	179	7055

77	309		5	13	20	10	700	-153	7269	-4	7270
77	309	11	5	13	20	10	950	-256	7252	181	7259
77	309	11	5	13	20	11	200	-257	7171	99	7177
77	309	11	5	13	20	11	450	-390	7127	-92	7138
77	309	11	5	13	20	11	700	-336	7075	-197	7085
77	309	11	5	13	20	11	950	-250	7173	-170	7180
77	309	11	5	13	20	12	200	-126	7274	56	7275
77	309	11	5	13	20	12	450	42	7536	206	7539
77	309	11	5	13	20	12	700	-145	7588	143	7591
77	309	11	5	13	20	12	950	-119	7443	69	7444
77	309	11	5	13	20	13	200	-34	7440	8	7441
77	309	11	5	13	20	13	450	-205	7345	70	7348
77	309	11	5	13	20	13	700	-281	7291	232	7300
77	309	11	5	13	20	13	950	-300	7276	270	7287
77	309	11	5	13	20	14	200	-466	7164	48	7176
77	309	11	5	13	20	14	450	-568	7120	134	7144
77	309	11	5	13	20	14	700	-514	7117	396	7147
77	309	11	5	13	20	14	950	-371	7157	334	7174
77	309	11	5	13	20	15	200	-372	7109	292	7124
77	309	11	5	13	20	15	450	-618	7150	396	7188
77	309	11	5	13	20	15	700	-787	7292	576	7268
77	309	11	5	13	20	15	950	-662	7280	420	7322
77	309	11	5	13	20	16	200	-468	7331	194	7348
77	309	11	5	13	20	16	450	-360	7314	165	7325
77	309	11	5	13	20	16	700	-307	7294	274	7306
77	309	11	5	13	20	16	950	-358	7321	320	7337
77	309	11	5	13	20	17	200	-461	7313	341	7340
77	309	11	5	13	20	17	450	-643	7310	423	7350
77	309	11	5	13	20	17	700	-634	7284	459	7326
77	309	11	5	13	20	17	950	-524	7366	423	7397
77	309	11	5	13	20	18	200	-630	7334	390	7372
77	309	11	5	13	20	18	450	-684	7315	454	7361
77	309	11	5	13	20	18	700	-902	7353	440	7421
77	309	11	5	13	20	18	950	-907	7192	498	7267
77	309	11	5	13	20	19	200	-769	7242	430	7296
77	309	11	5	13	20	19	450	-645	7196	248	7229
77	309	11	5	13	20	19	700	-597	7204	247	7233
77	309	11	5	13	20	19	950	-441	7224	201	7240
77	309	11	5	13	20	20	200	-371	7314	74	7324
77	309	11	5	13	20	20	450	-310	7302	-85	7310
77	309	11	5	13	20	20	700	-425	7313	-162	7327
77	309	11	5	13	20	20	950	-508	7135	118	7155
77	309	11	5	13	20	21	200	-544	7166	306	7193
77	309	11	5	13	20	21	450	-782	7170	497	7230
77	309	11	5	13	20	21	700	-779	7165	962	7272
77	309	11	5	13	20	21	950	-529	7452	943	7531
77	309	11	5	13	20	22	200	-660	7379	692	7441
77	309	11	5	13	20	22	450	-573	7075	563	7121
77	309	11	5	13	20	22	700	-471	7173	435	7202
77	309	11	5	13	20	22	950	-373	7167	519	7196
77	309	11	5	13	20	23	200	-259	7328	665	7363
77	309	11	5	13	20	23	450	-374	7340	474	7365
77	309	11	5	13	20	23	700	-285	7256	441	7275
77	309	11	5	13	20	23	950	-171	7342	263	7349
77	309	11	5	13	20	24	200	-272	7324	-104	7330
77	309	11	5	13	20	24	450	-223	7348	-51	7352
77	309	11	5	13	20	24	700	-325	7502	2	7510
77	309	11	5	13	20	24	950	-349	7386	194	7396

>>>>>>> BLOCK # 13 (THE LAST BLOCK)

77	309	11	5	13	25	0	80	4836	21023	4639	22065
77	309	11	5	13	25	0	330	4944	20552	5650	21880
77	309	11	5	13	25	0	580	4451	20706	6860	22263

D 47399
8/15/78 - 12/31/78
78-079A-08A

DUMP OF TAPE D01

INPUT TAPE D01 ON TD3
DATA INPUT H9 NF 139 FL 1 1 1 SR 139 1 1 SR 139 LAST 1

FILE 1 RECORD (YR Day) 1 LENGTH 2560BYTES

(0)	07BA00E3	001300B1	0015070D	00200000	00000000	00000000	00000000	00000000	00000000	00000000
(40)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(80)	001300B1	00520053	00530000	3965FFEF	36C9FFEC	3816FFE7	00030000	00000003	00010002	00020001
(120)	00000000	00000003	00000001	00010002	00030002	00010003	00000002	00030000	00000000	00000000
(160)	001301B1	00540055	00550000	2360FFF0	248EFFED	3704FFE6	00020000	00010001	00010000	00010001
(200)	00010002	00030001	00020003	00000001	00010000	00020003	00020001	00010002	00000000	00000000
(240)	001302B0	00260026	00260000	224BFFEE	26C6FFED	213BFFEA	00000001	00000000	00000002	00010000
(280)	00000000	00020000	00000000	00000000	00040002	00000002	00010001	00000002	00000000	00000000
(320)	001303B0	00540054	00540000	0000FFCE	2F78FFED	3347FFE7	00000002	00000002	00000001	00000002
(360)	00030001	00020001	00030001	00050001	00030002	00020003	00010000	00030002	00000000	00000000
(400)	001304B0	003F0040	00400000	22BBFFEF	2B70FFED	268DFFE8	00000000	00000000	00000002	00010002
(440)	00010003	00010001	00000002	00010003	00000001	00020002	00010001	00010002	00000000	00000000
(480)	00130A30	00540055	00550000	3228FFF0	3B33FFEC	2922FFE7	00030002	00020001	00010001	00010001
(520)	00010000	00010002	00000000	00010004	00000000	00070001	00020000	00010002	00000000	00000000
(560)	00130B2F	00550055	00550000	2760FFF0	2151FFED	3304FFE8	00020001	00000001	00010002	00020000
(600)	00030000	00020000	00000001	00040002	00010001	00040000	00010001	00030000	00000000	00000000
(640)	00130C2F	00530054	00540000	3B65FFEF	21B7FFED	3678FFE6	00050000	00010000	00010001	00020000
(680)	00030001	00020000	00000000	00040003	00030000	00020001	00020000	00010002	00000000	00000000
(720)	00130D2F	00540055	00550000	20FEFFF0	2D8BFFED	2030FFE7	00030000	00030001	00030000	00000000
(760)	00030001	00010004	00010002	00010003	00050002	00020001	00000000	00040003	00000000	00000000
(800)	0014001F	00550055	00550000	252AFFF0	2839FFED	2A77FFE8	00010001	00010001	00010002	00020001
(840)	00020003	00010001	00000000	00010001	00020003	00020003	00020006	00030003	00000000	00000000
(880)	0014011F	00540054	00540000	22CBFFF0	2714FFED	3B6EFFE7	00020000	00030001	00010000	00010001
(920)	00020001	00010002	00040002	00020000	00040000	00010001	00020002	00020001	00000000	00000000
(960)	0014021F	00540055	00550000	35E4FFF0	23F5FFED	3704FFE6	00030000	00010001	00010001	00020001
(1000)	00030001	00010002	00030001	00010002	00010002	00010002	00000002	00000002	00000000	00000000
(1040)	0014031F	00540055	00550000	22ECFFF0	38A2FFEC	3706FFE5	00000000	00000002	00010000	00100002
(1080)	00000001	00020001	00000000	00020002	00020000	00030000	00010002	00040001	00000000	00000000
(1120)	0014041F	00540054	00540000	2610FFF0	3754FFED	28DDFFE7	00000000	00000001	00010002	00010002
(1160)	00030003	00030003	00020003	00010003	00050003	00010001	00000003	00010002	00000000	00000000
(1200)	0014051F	00540055	00550000	29CBFFF0	34CBFFEC	2E79FFE8	00000002	00020000	00010005	00010002
(1240)	00020000	00000001	00020002	00030000	00020002	00000001	00000001	00020001	00000000	00000000
(1280)	0014061E	00540055	00550000	21ABFFF0	3A52FFEC	2030FFE7	00000003	00010001	00030003	00020001
(1320)	00010000	00020000	00000000	00030003	00020000	00020001	00020002	00030001	00000000	00000000
(1360)	0014071E	00550055	00550000	269AFFF0	2925FFED	3818FFE5	00030000	00010001	00000000	00000002
(1400)	00010003	00000000	00020002	00050002	00010001	00000002	00030002	00020002	00000000	00000000
(1440)	0014081E	00530054	00540000	26ABFFF0	38F2FFEC	2A77FFE8	00000002	00020000	00020001	00010002
(1480)	00040001	00030000	00020000	00000001	00020002	00000002	00000000	00000003	00000000	00000000
(1520)	0014091E	00540055	00550000	27AEFFF0	2CC0FFED	2765FFE7	00020003	00020002	00010002	00010001
(1560)	00040001	00020000	00040005	00010003	00010001	00030001	00040000	00010000	00000000	00000000
(1600)	00140A1E	00550055	00550000	2285FFF0	3C9BFFEC	39B0FFE6	00030001	00010000	00000000	00010001
(1640)	00010001	00010002	00020001	00010003	00010004	00000002	00010000	00000001	00000000	00000000
(1680)	00140B1E	00540054	00540000	24AFFFF0	3D15FFEC	27B8FFE8	00000001	00010001	00020001	00000003
(1720)	00000001	00000002	00020000	00000002	00020001	00020002	00010003	00050000	00000000	00000000
(1760)	00140C1E	00540055	00550000	3818FFEF	205EFFED	2EDFFFE8	00020001	00040001	00000002	00010002
(1800)	00020001	00010003	00010002	00020004	00010000	00000001	00010001	00010000	00000000	00000000
(1840)	00140D1E	00540055	00550000	253BFFF0	2C1BFFED	2C11FFE7	00000000	00010003	00020003	00010001
(1880)	00020004	00020000	00030001	00020003	00010000	00020001	00030002	00020001	00000000	00000000
(1920)	0015000E	00540054	00540000	2D97FFF0	2C30FFED	0000FFCE	00010000	00010002	00020001	00020001
(1960)	00030002	00030001	00030001	00000003	00000002	00030002	00020001	00000003	00020001	00000000
(2000)	00150100	00540055	00550000	234FFFF0	3D03FFEC	2151FFE8	00010000	00020001	00000002	00000003
(2040)	00000002	00010002	00010001	00000001	00000003	00020000	00010002	00010006	00000000	00000000
(2080)	0015020D	00540055	00550000	27AAFFF0	28C0FFED	2354FFE8	00010003	00020002	00010003	00010001
(2120)	00010001	00020002	00000005	00010000	00020006	00010001	00040002	00000002	00000000	00000000
(2160)	0015030D	00550055	00550000	3E21FFEF	2D9AFFED	23DAFFE9	00010001	00000002	00050002	00040000
(2200)	00030000	00020004	00030002	00010001	00030002	00030002	00020003	00010000	00000000	00000000
(2240)	0015040D	00530054	00540000	2ADBFFF0	28FCFFED	39C2FFE8	00010002	00000000	00000001	00020001
(2280)	00030002	00020003	00010000	00000000	00010002	00020003	00030003	00030004	00000000	00000000

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(  2160)  00170DF6  002B002B  002B0000  3B46FFF2  3CA1FFF0  20A1FFED  000E0009  00070009  0009C006  000C000E
(  2200)  0013000D  000A0007  00080010  000D000A  000F0006  000A0009  0002000A  0009000C  00000000  00000000
(  2240)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2280)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2320)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2360)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2400)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2440)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2480)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
(  2520)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000

          FILE   INPUT     DATA RECORDS      MAX.          READ ERROR SUMMARY          INPUT RETRIES
                 RECS.        INPUT          SIZE       PERM  ZERO B   SHORT  UNDEF.  #RECS.  TOTAL#
           139        9        10           2560          0      0       0      0       1       1

 EOJ        DUMP STOPPED AFTER FILE   139        # OF PERMANENT READ ERRORS  0

START TIME 03/04/82  08:24:46        STOP TIME 03/04/82  08:25:59


$$
$ASS IN MT4
$EXE TPNRCF BS
```

78-079A-08A
EXPERIMENT DFH, ISEE-? FIRST 3 DAYS, LAST DAY. 1 FILE/DAY, DOUBLE EOF AT END OF TAPE

YEAR=1980 DAY= 95 TIME FROM=14:42:51 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.193 0.629 0.329 0.119 0.065 0.017 0.016 0.004 1.18 1.18 1.70 1.14 2.42 0.63 2.71

YEAR=1980 DAY= 95 TIME FROM=14:43: 7 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.270 0.667 0.323 0.148 0.088 0.025 0.011 0.001 1.19 1.27 1.34 1.05 2.17 1.38 13.00

YEAR=1980 DAY= 95 TIME FROM=14:43:23 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.316 0.629 0.417 0.141 0.079 0.021 0.013 0.002 1.30 0.93 1.82 1.11 2.33 1.00 3.75

YEAR=1980 DAY= 95 TIME FROM=14:43:39 1 FORMATS FROM 1 FORMATS SPIN= 6 6 6

1.173 0.691 0.387 0.139 0.062 0.044 0.008 0.002 1.06 1.10 1.72 1.39 0.87 3.45 2.75

YEAR=1980 DAY= 95 TIME FROM=14:43:55 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.086 0.610 0.300 0.155 0.081 0.025 0.008 0.002 1.11 1.25 1.19 1.19 2.00 2.00 2.25

YEAR=1980 DAY= 95 TIME FROM=14:44:11 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.224 0.543 0.247 0.116 0.047 0.022 0.008 0.007 1.40 1.36 1.31 1.52 1.31 1.78 0.64

YEAR=1980 DAY= 95 TIME FROM=14:44:27 1 FORMATS FROM 1 FORMATS SPIN= 6 6 6

1.122 0.723 0.323 0.148 0.079 0.036 0.009 0.003 0.97 1.38 1.35 1.17 1.35 2.58 2.00

YEAR=1980 DAY= 95 TIME FROM=14:44:43 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

0.887 0.620 0.376 0.163 0.059 0.026 0.013 0.001 0.89 1.02 1.42 1.73 1.37 1.27 15.00

YEAR=1980 DAY= 95 TIME FROM=14:44:59 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.209 0.582 0.329 0.195 0.061 0.025 0.017 0.004 1.30 1.09 1.04 2.00 1.50 0.90 2.86

YEAR=1980 DAY= 95 TIME FROM=14:45:15 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.346 0.610 0.335 0.188 0.077 0.031 0.015 0.003 1.38 1.12 1.10 1.53 1.55 1.29 3.40

YEAR=1980 DAY= 95 TIME FROM=14:45:31 1 FORMATS FROM 1 FORMATS SPIN= 6 6 6

0.854 0.612 0.382 0.136 0.058 0.048 0.012 0.007 0.87 0.99 1.73 1.45 0.76 2.56 1.00

YEAR=1980 DAY= 95 TIME FROM=14:45:47 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.040 0.524 0.300 0.112 0.077 0.015 0.016 0.001 1.24 1.08 1.65 0.91 3.09 0.58 9.50

YEAR=1980 DAY= 95 TIME FROM=14:46: 3 1 FORMATS FROM 1 FORMATS SPIN= 5 5 5

1.178 0.524 0.259 0.152 0.050 0.022 0.012 0.006 1.27 1.27 1.05 1.91 1.38 1.14 1.27

DUMP OF TAPE DE-1

0 47107
10/25/77-12/25/78
77-002A-04H

INPUT TAPE DE-1 ON MT2
DATA INPUT H9 NF 92 FL 1 1 1 SR 92 1 1 SR 92 LAST 1

FILE	1 RECORD (YR)	1 (DAY) LENGTH	48COBYTES							
(0)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000000	00000054	00001513	00001CBC
(40)	00001578	0000299C	0000004D	0000012A	0000000A	00000019	0000000A	00000000	00000014E	
(80)	00001765	00001B88	00001D15	00002E61	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(120)	00000000	00000248	000019AD	00001EA7	00002292	0000319F	0000004D	0000012A	0000000A	00000019
(160)	00000009	0000000A	00000000	00000342	00001C26	00001594	00002763	00003501	0000004D	0000012A
(200)	0000000A	00000019	00000009	0000C00A	00000001	00000054	00001B1A	00001352	00002850	00003447
(240)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000001	0000014E	00001849	00001206
(280)	000023D1	000030CF	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000001	00000248
(320)	00001D40	0000161F	00002224	00003213	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(360)	00000001	00000342	00001F29	00001810	00002560	00003649	0000004D	0000012A	0000000A	00000019
(400)	00000009	0000000A	00000002	00000054	000021A5	0000187E	000028A1	00003A29	0000004D	0000012A
(440)	0000000A	00000019	00000009	0000000A	00000002	0000014E	000022A4	00001775	000029DC	0000382F
(480)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000002	00000248	00002213	00001621
(520)	00002999	00003A26	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000002	00000342
(560)	00002068	00001670	00002AA0	00003A11	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(600)	00000003	00000054	00001F83	000014D5	00002F08	00003C56	0000004D	0000012A	0000000A	00000019
(640)	00000009	0000000A	00000003	0000014E	00002016	00001098	00003523	00004042	0000004D	0000012A
(680)	0000000A	00000019	00000009	0000000A	00000003	00000248	000029C4	000010D6	000035C6	0000412F
(720)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000003	00000342	00001EE2	0000155C
(760)	0000331F	00003F6F	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000004	00000054
(800)	00001CEE	00001AAA	00003205	00003FA4	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(840)	00000004	0000014E	00001B12	00001DA4	00003110	00003F6F	0000004D	0000012A	0000000A	00000019
(880)	00000009	0000000A	00000004	00002248	00001B2D	00001E49	000030B7	00003F79	0000004D	0000012A
(920)	0000000A	00000019	00000009	0000000A	00000004	00000342	00001BCA	00001E48	00003056	00003FBC
(960)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000005	00000054	00001B81	00001D62
(1000)	00002F69	00003E30	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000005	0000014E
(1040)	00001AED	00001A0E	00002D1E	00003AA5	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(1080)	00000005	00000248	00001C57	0000163C	00002BDF	000038C4	0000004D	0000012A	0000000A	00000019
(1120)	00000009	0000000A	00000005	00000342	00001F1C	00001356	00002B5A	000038C2	00000040	00000012A
(1160)	0000000A	00000019	00000009	0000000A	00000006	00000054	0000213F	000010CE	00002B1C	000036FA
(1200)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000006	0000014E	000021F3	00000E85
(1240)	00002ABC	00003887	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000006	00000248
(1280)	0000214F	00000E1E	000029ED	00003761	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(1320)	00000006	00000342	00001F96	00000DEF	0000291A	000035AE	0000004D	0000012A	0000000A	00000019
(1360)	00000009	0000000A	00000007	00000054	00001E49	00000D4E	00002905	00003482	0000004D	0000012A
(1400)	0000000A	00000019	00000009	0000000A	00000007	0000014E	00001DF8	00000C14	00002A95	00003575
(1440)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000007	00000248	00001EC0	00000AF7
(1480)	00002CDF	0000377E	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000007	00000342
(1520)	00001E60	00000A6F	00002D46	00003783	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(1560)	00000008	00000054	00001C81	00000905	00002D79	0000366C	0000004D	0000012A	0000000A	00000019
(1600)	00000009	0000000A	00000008	0000014E	00001AA7	00000814	00002E61	00003619	0000004D	0000012A
(1640)	0000000A	00000019	00000009	0000000A	00000008	00000248	000019DD	00000986	00002E45	000035D8
(1680)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000008	00000342	00001900	00000B82
(1720)	00002D77	00003525	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000009	00000054
(1760)	00001820	00000CAA	00002BAC	0000337A	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(1800)	00000009	0000014E	00001780	00000E93	00002A5E	00003298	0000004D	0000012A	0000000A	00000019
(1840)	00000009	0000000A	00000009	00000248	00001608	00000FB1	00002ACE	000032FE	0000004D	0000012A
(1880)	0000000A	00000019	00000009	0000000A	00000009	00000342	000017C2	00000FFB	00002C93	000034FB
(1920)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	00000009	0000000A	00000054	00001881	0000124F
(1960)	00002CD0	00003642	0000004D	0000012A	0000000A	00000019	00000009	0000000A	0000000A	0000014E
(2000)	0000181A	000011C5	000029F2	0000338A	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(2040)	0000000A	00000248	000019F7	00000FA7	00002760	000031BC	0000004D	0000012A	0000000A	00000019
(2080)	00000009	0000000A	0000000A	00000342	00001A5C	00001EE5	000024F3	00002FC5	00000040	00000012A
(2120)	0000000A	00000019	00000009	0000000A	00000004	00000054	00001938	0000004D	00002CC	00002CFF
(2160)	0000004D	0000012A	0000000A	00000019	00000009	0000000A	0000000B	0000014E	00001994	00000D9X
(2200)	00002376	00002DCD	0000004D	0000012A	0000000A	00000019	00000009	0000000A	0000000B	00000243
(2240)	00001B6D	00000F49	00002475	0000301E	0000004D	0000012A	0000000A	00000019	00000009	0000000A
(2280)	0000000B	00000342	00001DD9	00000E7D	0000253A	000031DE	0000004D	0000012A	0000000A	00000019

(2960)	FFFFF5EE	00000411	FFFFBE69	0000427B	0000004E	00000167	0000000C	00000019	0000000D	00000028
(3000)	00000003	00000391	FFFFF5E8	00000408	FFFFBE64	0000428C	0000004E	00000167	0000000C	00000019
(3040)	0000000D	00000028	00000003	000003D0	FFFFF5E5	000003DF	FFFFBE5E	0000428C	0000004E	00000167
(3080)	0000000C	00000019	0000000D	00000028	00000004	00000026	FFFFF5DB	000003B2	FFFF5E67	0000427B
(3120)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000004	00000065	FFFFF628	0000033A
(3160)	FFFFBE89	00004248	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000004	000000A3
(3200)	FFFFF696	000002E0	FFFFBE52	0000426A	0000004E	00000167	0000000C	00000019	0000000D	00000028
(3240)	00000004	000000E2	FFFFF68F	000002E5	FFFFBE2B	00004292	0000004E	00000167	0000000C	00000019
(3280)	0000000D	00000028	00000004	00000120	FFFFF6A8	000002BF	FFFFBE44	00004274	0000004E	00000167
(3320)	0000000C	00000019	0000000D	00000028	00000004	0000015F	FFFFF706	00000279	FFFFBE56	00004253
(3360)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000004	000001BD	FFFFF754	000002B1
(3400)	FFFFBE2E	0000426F	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000004	000001DC
(3440)	FFFFF71F	000002F9	FFFFBE0D	0000429C	0000004E	00000167	0000000C	00000019	0000000D	00000028
(3480)	00000004	0000021A	FFFFF6C9	0000033A	FFFFBE1D	0000429B	0000004E	00000167	0000000C	00000019
(3520)	0000000D	00000028	00000004	00000259	FFFFF692	0000034B	FFFFBDFE	000042C1	0000004E	00000167
(3560)	0000000C	00000019	0000000D	00000028	00000004	00000297	FFFFF66C	0000035E	FFFFBDF8	000042CF
(3600)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000004	000002D6	FFFFF635	00000383
(3640)	FFFFBE21	000042AF	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000004	00000314
(3680)	FFFFF5FC	000003AB	FFFFBE3B	000042A1	0000004E	00000167	0000000C	00000019	0000000D	00000028
(3720)	00000004	00000353	FFFFF5D3	000003D0	FFFFBE47	0000429E	0000004E	00000167	0000000C	00000019
(3760)	0000000D	00000028	00000004	00000391	FFFFF5CF	000003E1	FFFFBE54	00004292	0000004E	00000167
(3800)	0000000C	00000019	0000000D	00000028	00000004	000003D0	FFFFF5E6	000003E2	FFFFBE63	00004280
(3840)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	00000026	FFFFF5E9	00000412
(3880)	FFFFBE73	00004273	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	00000065
(3920)	FFFFF5D6	0000043E	FFFFBE5B	00004290	0000004E	00000167	0000000C	00000019	0000000D	00000028
(3960)	00000005	000000A3	FFFFF5DA	0000044E	FFFFBE4D	0000429E	0000004E	00000167	0000000C	00000019
(4000)	0000000D	00000028	00000005	000000E2	FFFFF5D8	0000044F	FFFFBE58	00004293	0000004E	00000167
(4040)	0000000C	00000019	0000000D	00000028	00000005	00000120	FFFFF5C0	00000475	FFFFBE74	0000427E
(4080)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	0000015F	FFFFF585	00000483
(4120)	FFFFBE78	00004286	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	000001BD
(4160)	FFFFF565	000004B6	FFFFBE86	0000427F	0000004E	00000167	0000000C	00000019	0000000D	00000028
(4200)	00000005	000001DC	FFFFF577	000004B7	FFFFBEC5	0000423E	0000004E	00000167	0000000C	00000019
(4240)	0000000D	00000028	00000005	0000021A	FFFFF5A8	000004CA	FFFFBEBE	0000423F	0000004E	00000167
(4280)	0000000C	00000019	0000000D	00000028	00000005	00000259	FFFFF5D3	000004D7	FFFFBEA7	00004250
(4320)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	00000297	FFFFF5C7	000004CA
(4360)	FFFFBE7F	00004279	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	000002D6
(4400)	FFFFF57C	000004BB	FFFFBE5E	000042A3	0000004E	00000167	0000000C	00000019	0000000D	00000028
(4440)	00000005	00000314	FFFFF583	000004B2	FFFFBE67	00004299	0000004E	00000167	0000000C	00000019
(4480)	0000000D	00000028	00000005	00000353	FFFFF5B5	000004AE	FFFFBE70	000042B8	0000004E	00000167
(4520)	0000000C	00000019	0000000D	00000028	00000005	00000391	FFFFF5A5	000004BA	FFFFBE66	00004274
(4560)	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	000003D0	FFFFF599	000004B1
(4600)	FFFFBE88	00004275	0000004E	00000167	0000000C	00000019	0000000D	00000028	00000005	00000026
(4640)	FFFFF5C8	0000048C	FFFFBE6E	00004284	0000004E	00000167	0000000C	00000019	0000000D	00000028
(4680)	00000006	00000065	FFFFF5FA	00000470	FFFFBE74	00004275	0000004E	00000167	0000000C	00000019
(4720)	0000000D	00000028	00000006	000000A3	FFFFF5FF	00000486	FFFFBE72	00004278	0000004E	00000167
(4760)	0000000C	00000019	0000000D	00000028	00000006	000000E2	FFFFF5EE	000004A5	FFFFBE60	00004256

FILE 92 RECORD 289 LENGTH 4800BYTES

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(40)	FFFF5AE6	0000AA32	0000004E	00000167	0000000C	00000019	0000000E	0000000A	00000000	00000054
(80)	FFFFEFA0	FFFFD7AB	FFFF5B02	0000AAA4	0000004E	00000167	0000000C	00000019	0000000E	0000000A
(120)	00000000	00000093	FFFFEF84	FFFFD623	FFFF5ACC	0000AB37	0000004E	00000167	0000000C	00000019
(160)	0000000E	0000000A	00000000	000000D1	FFFFEF03	FFFFD4E0	FFFF5AD8	0000AB69	0000004E	00000167
(200)	0000000C	00000019	0000000E	0000000A	00000000	00000110	FFFFEE54	FFFFD343	FFFF5B31	0000ABB0
(240)	0000004E	00000167	0000000C	00000019	0000000E	0000000A	00000000	00000148	FFFFEE26	FFFFD1C8
(280)	FFFF5B80	0000ABCD	0000004E	00000167	0000000C	00000019	0000000E	0000000A	00000000	000001ED
(320)	FFFFEDDC	FFFFD08E	FFFF5BBB	0000ABF2	0000004E	00000167	0000000C	00000019	0000000E	0000000A
(360)	00000000	000001CB	FFFFEDE2	FFFFCF39	FFFF5BDF	0000AC2E	0000004E	00000167	0000000C	00000019
(400)	0000000E	0000000A	00000000	0000020A	FFFFEE05	FFFFCDE5	FFFF5BB2	0000AC37	0000004E	00000167
(440)	0000000C	00000019	0000000E	0000000A	00000000	00000248	FFFFEDB4	FFFFCCE1	FFFF5B89	0000AD4E
(480)	0000004E	00000167	0000000C	00000019	0000000E	0000000A	00000000	00000287	FFFFED84	FFFFCB9C
(520)	FFFF5BB2	0000AD71	0000004E	00000167	0000000C	00000019	0000000E	0000000A	00000000	000002C5
(560)	FFFFED73	FFFFCA66	FFFF5C1C	0000AD6E	0000004E	00000167	0000000C	00000019	0000000E	0000000A
(600)	00000000	00000304	FFFFED03	FFFFC93C	FFFF5C66	0000AD92	0000004E	00000167	0000000C	00000019
(640)	0000000E	0000000A	00000000	00000342	FFFFEC2D	FFFFC8AA	FFFF5C5A	0000ADE3	FF676981	FF676981
(680)	FF676981	FF676981	FF676981	FF676981	FF676981	FF676981	FF676981	FF676981	FF676981	FF676981