813

ISEE-3

Plasma Wave E & B G-Z Encounter

78-079A-07D

SPIS-00007

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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-3

ISEE-3 PLASMA WAVE E&B FLD G-Z ENCTR

78-079A-07D SPIS-00007

This data set catalog consists of three tapes. The tapes are 6250 BPI, 9-track, multifiled, ASCII, and created on the 11/780.

The D and C numbers, timespan, and number of files are as follows:

| D# | C# | FILES | TIME SPANS |
|---|---|---|---|
| 088192 | 032952 | 41 | 09/10/85 - 09/10/85 |
| 088193 | 032953 | 92 | 09/11/85 - 09/12/85 |
| 088194 | 032954 | 102 | 09/13/85 - 09/14/85 |

78-079A-07D

PLASMA WAVE EXPERIMENT DATA FROM ICE (ISEE-3) FOR THE GIACOBINI-ZINNER COMET ENCOUNTER

This data set contains calibrated 16-channel wave electric field data and 8-channel wave magnetic field data from the Plasma Wave Experiment on ISEE-3 for the Giacobini-Zinner comet encounter period. Details of the instrument are given in "The ISEE-C Plasma Wave Investigation," Scarf, F.L., Fredericks, R.W., Gurnett, D.A., and Smith, E.J., IEEE Transactions on Geoscience Electronics, v. GE-16, No. 3, July 1978, pp. 191-195.

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TIME SPAN: 10Sep85-14Sep85

QUANTITY: 3 tapes

TAPE MEDIUM AND DENSITY: 9-track, 6250 bpi

TAPE FORMAT: ASCII, ANSI Standard labeled tapes

TAPE LABELS: ICEGZ1 (data for Sept. 10, 1985);
ICEGZ2 (data for Sept. 11 & 12, 1985);
ICEGZ3 (data for Sept. 13 & 14, 1985).

TAPE BLOCK SIZE: 2048 bytes

DATA FORMAT: See attachment

File names have the following format:

PEyymmddhh.# or PByymmddhh.#

where:

P: signifies processed data
E or B: signifies E-field or B-field data respectively
yy: indicates the year (85 for 1985)
mm: indicates the month number (09 for September)
dd: indicates the day of month
hh: indicates the starting hour of data in file
# : indicates the file number in sequence

Example: PB85091017.19 is file containing magnetic field data for (part or all of) hour 17 on 1985-Sep-10.

(Note: a given file may contain data for more than one hour; alternately, data for a given hour may be distributed in more than one file; precise timing information is contained in the data records within the files).

Data in ASCII format for the period September 10-14, 1985, are on three ANSI labeled tapes (labels: ICEGZ1, ICEGZ2, ICEGZ3); hence each data file has a header file and a trailer file associated with it. To restore all the files from tape to disk on a VAX, do the following:

```
$ ALLOCATE  <device_name>:
$ MOUNT  <device_name>:  <tape_label>
$ COPY  <device_name>:*.*  *.*
```

---

Tape label = ICEGZ1

(E- and B-field data for September 10, 1985)

| Data file name | Data file size in VAX blocks (1 VAX block = 512 bytes) | Data file size in tape blocks (1 tape block = 2048 bytes) |
|---|---|---|
| PB85090923.1;1 | 1459 | 381 |
| PB85091000.2;1 | 791 | 207 |
| PB85091001.3;1 | 869 | 227 |
| PB85091002.4;1 | 851 | 222 |
| PB85091004.5;1 | 864 | 226 |
| PB85091005.6;1 | 798 | 209 |
| PB85091006.7;1 | 794 | 207 |
| PB85091007.8;1 | 165 | 43 |
| PB85091008.9;1 | 706 | 184 |
| PB85091009.10;1 | 190 | 50 |
| PB85091010.11;1 | 1709 | 446 |
| PB85091012.12;1 | 96 | 26 |

| | | |
|---|---|---|
| PB85091012.13;1 | 692 | 181 |
| PB85091012.14;1 | 866 | 226 |
| PB85091013.15;1 | 858 | 224 |
| PB85091014.16;1 | 839 | 219 |
| PB85091015.17;1 | 865 | 226 |
| PB85091016.18;1 | 861 | 225 |
| PB85091017.19;1 | 860 | 225 |
| PB85091018.20;1 | 866 | 226 |
| PB85091019.21;1 | 1897 | 495 |
| PB85091021.22;1 | 3101 | 809 |
| PE85090923.1;1 | 2716 | 705 |
| PE85091000.2;1 | 1471 | 382 |
| PE85091001.3;1 | 1616 | 419 |
| PE85091002.4;1 | 1583 | 411 |
| PE85091004.5;1 | 1607 | 417 |
| PE85091005.6;1 | 1484 | 385 |
| PE85091006.7;1 | 1477 | 383 |
| PE85091007.8;1 | 307 | 80 |
| PE85091008.9;1 | 1313 | 341 |
| PE85091009.10;1 | 352 | 92 |
| PE85091010.11;1 | 3180 | 825 |
| PE85091012.12;1 | 179 | 47 |
| PE85091012.13;1 | 1287 | 334 |
| PE85091012.14;1 | 1611 | 418 |
| PE85091013.15;1 | 1596 | 414 |
| PE85091014.16;1 | 1561 | 405 |
| PE85091015.17;1 | 1610 | 418 |
| PE85091016.18;1 | 1602 | 416 |
| PE85091017.19;1 | 1601 | 415 |
| PE85091018.20;1 | 1611 | 418 |
| PE85091019.21;1 | 3529 | 915 |
| PE85091021.22;1 | 5771 | 1497 |

Total of 44 files, 60061 VAX blocks.

---

Tape label = ICEGZ2

(E- and B-field data for September 11 & 12, 1985)

| Data file name | Data file size in VAX blocks (1 VAX block = 512 bytes) | Data file size in tape blocks (1 tape block = 2048 bytes) |
|---|---|---|
| PB85091100.24;1 | 850 | 222 |
| PB85091101.25;1 | 858 | 224 |
| PB85091102.26;1 | 852 | 222 |
| PB85091103.27;1 | 853 | 223 |
| PB85091104.28;1 | 858 | 224 |
| PB85091105.29;1 | 848 | 222 |
| PB85091106.30;1 | 858 | 224 |
| PB85091107.31;1 | 170 | 45 |
| PB85091108.33;1 | 743 | 194 |
| PB85091108.34;1 | 728 | 190 |
| PB85091109.36;1 | 1886 | 492 |

| | | |
|---|---|---|
| PB85091111.38;1 | 829 | 217 |
| PB85091112.39;1 | 91 | 24 |
| PB85091113.40;1 | 759 | 198 |
| PB85091113.41;1 | 857 | 224 |
| PB85091114.42;1 | 862 | 225 |
| PB85091115.43;1 | 860 | 225 |
| PB85091116.44;1 | 860 | 225 |
| PB85091117.45;1 | 843 | 220 |
| PB85091118.47;1 | 1573 | 411 |
| PB85091120.48;1 | 1107 | 289 |
| PB85091122.49;1 | 1412 | 369 |
| PB85091123.50;1 | 1021 | 267 |
| PB85091200.52;1 | 855 | 223 |
| PB85091201.53;1 | 866 | 226 |
| PB85091202.54;1 | 863 | 226 |
| PB85091203.55;1 | 851 | 222 |
| PB85091204.56;1 | 891 | 233 |
| PB85091205.57;1 | 832 | 218 |
| PB85091206.58;1 | 862 | 225 |
| PB85091207.59;1 | 855 | 223 |
| PB85091208.60;1 | 895 | 234 |
| PB85091209.61;1 | 798 | 209 |
| PB85091210.62;1 | 855 | 223 |
| PB85091211.63;2 | 132 | 35 |
| PB85091212.64;1 | 788 | 206 |
| PB85091213.65;1 | 780 | 204 |
| PB85091213.66;1 | 849 | 222 |
| PB85091214.67;1 | 866 | 226 |
| PB85091215.68;1 | 854 | 223 |
| PB85091216.69;1 | 856 | 224 |
| PB85091217.70;1 | 550 | 144 |
| PB85091218.71;1 | 130 | 34 |
| PB85091218.72;2 | 48 | 13 |
| PB85091219.73;1 | 1801 | 470 |
| PB85091223.75;1 | 733 | 192 |
| PE85091100.24;1 | 1582 | 411 |
| PE85091101.25;1 | 1596 | 414 |
| PE85091102.26;1 | 1584 | 411 |
| PE85091103.27;1 | 1587 | 412 |
| PE85091104.28;1 | 1596 | 414 |
| PE85091105.29;1 | 1577 | 409 |
| PE85091106.30;1 | 1596 | 414 |
| PE85091107.31;1 | 316 | 82 |
| PE85091108.33;1 | 1382 | 359 |
| PE85091108.34;1 | 1354 | 352 |
| PE85091109.36;1 | 3510 | 910 |
| PE85091111.38;1 | 1543 | 400 |
| PE85091112.39;1 | 168 | 44 |
| PE85091113.40;1 | 1412 | 367 |
| PE85091113.41;1 | 1595 | 414 |
| PE85091114.42;1 | 1604 | 416 |
| PE85091115.43;1 | 1600 | 415 |
| PE85091116.44;1 | 1600 | 415 |
| PE85091117.45;1 | 1569 | 407 |
| PE85091118.47;1 | 2927 | 759 |
| PE85091120.48;1 | 2061 | 535 |
| PE85091122.49;1 | 2628 | 682 |
| PE85091123.50;1 | 1900 | 493 |
| PE85091200.52;1 | 1591 | 413 |
| PE85091201.53;1 | 1611 | 418 |

| | | |
|---|---|---|
| PE85091202.54;1 | 1606 | 417 |
| PE85091203.55;1 | 1583 | 411 |
| PE85091204.56;1 | 1657 | 430 |
| PE85091205.57;1 | 1549 | 402 |
| PE85091206.58;1 | 1603 | 416 |
| PE85091207.59;1 | 1591 | 413 |
| PE85091208.60;1 | 1664 | 432 |
| PE85091209.61;1 | 1485 | 385 |
| PE85091210.62;1 | 1590 | 413 |
| PE85091211.63;1 | 245 | 64 |
| PE85091212.64;1 | 1466 | 380 |
| PE85091213.65;1 | 1450 | 376 |
| PE85091213.66;1 | 1580 | 410 |
| PE85091214.67;1 | 1611 | 418 |
| PE85091215.68;1 | 1590 | 412 |
| PE85091216.69;1 | 1593 | 413 |
| PE85091217.70;1 | 1023 | 266 |
| PE85091218.71;1 | 242 | 63 |
| PE85091218.72;2 | 88 | 23 |
| PE85091219.73;1 | 3352 | 870 |
| PE85091223.75;1 | 1364 | 354 |

Total of 92 files, 109809 VAX blocks.

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Tape label = ICEGZ3

(E- and B-field data for September 13 & 14, 1985)

| Data file name | Data file size in VAX blocks (1 VAX block = 512 bytes) | Data file size in tape blocks (1 tape block = 2048 bytes) |
|---|---|---|
| PB85091300.76;1 | 128 | 34 |
| PB85091301.77;1 | 392 | 103 |
| PB85091301.78;1 | 429 | 112 |
| PB85091302.79;1 | 436 | 114 |
| PB85091303.80;1 | 428 | 112 |
| PB85091304.81;1 | 420 | 110 |
| PB85091305.82;1 | 315 | 82 |
| PB85091306.83;1 | 130 | 34 |
| PB85091307.84;1 | 345 | 90 |
| PB85091307.85;1 | 391 | 102 |
| PB85091308.86;1 | 370 | 97 |
| PB85091309.88;1 | 106 | 28 |
| PB85091310.90;1 | 830 | 217 |
| PB85091311.91;1 | 413 | 108 |
| PB85091312.92;1 | 100 | 27 |
| PB85091313.93;1 | 361 | 95 |
| PB85091313.94;1 | 431 | 113 |
| PB85091314.95;1 | 417 | 109 |
| PB85091315.96;1 | 432 | 113 |
| PB85091316.97;1 | 427 | 112 |
| PB85091317.98;1 | 424 | 111 |

| | | |
|---|---|---|
| PB85091318.99;1 | 467 | 122 |
| PB85091320.100;1 | 342 | 90 |
| PB85091320.101;1 | 457 | 119 |
| PB85091321.102;1 | 422 | 110 |
| PB85091322.103;1 | 399 | 104 |
| PB85091323.104;1 | 273 | 72 |
| PB85091400.105;1 | 219 | 57 |
| PB85091400.106;1 | 430 | 112 |
| PB85091401.107;1 | 425 | 111 |
| PB85091402.108;1 | 60 | 16 |
| PB85091403.109;1 | 431 | 113 |
| PB85091404.110;1 | 360 | 94 |
| PB85091404.111;1 | 441 | 115 |
| PB85091405.112;1 | 412 | 108 |
| PB85091406.113;1 | 427 | 112 |
| PB85091407.114;1 | 429 | 112 |
| PB85091408.115;1 | 464 | 121 |
| PB85091409.116;1 | 390 | 102 |
| PB85091410.118;1 | 433 | 113 |
| PB85091411.120;1 | 196 | 52 |
| PB85091412.121;1 | 310 | 81 |
| PB85091412.122;1 | 136 | 36 |
| PB85091413.123;1 | 356 | 93 |
| PB85091413.124;1 | 417 | 109 |
| PB85091414.125;1 | 588 | 154 |
| PB85091415.126;1 | 458 | 120 |
| PB85091416.127;1 | 408 | 107 |
| PB85091417.128;1 | 496 | 130 |
| PB85091419.129;1 | 210 | 55 |
| PB85091419.130;1 | 393 | 103 |
| PE85091300.76;1 | 238 | 62 |
| PE85091301.77;1 | 729 | 189 |
| PE85091301.78;1 | 798 | 207 |
| PE85091302.79;1 | 811 | 211 |
| PE85091303.80;1 | 795 | 206 |
| PE85091304.81;1 | 781 | 203 |
| PE85091305.82;1 | 585 | 152 |
| PE85091306.83;1 | 241 | 63 |
| PE85091307.84;1 | 641 | 166 |
| PE85091307.85;1 | 727 | 189 |
| PE85091308.86;1 | 687 | 178 |
| PE85091309.88;1 | 195 | 51 |
| PE85091310.90;1 | 1545 | 401 |
| PE85091311.91;1 | 768 | 199 |
| PE85091312.92;1 | 186 | 49 |
| PE85091313.93;1 | 671 | 174 |
| PE85091313.94;1 | 802 | 208 |
| PE85091314.95;1 | 775 | 201 |
| PE85091315.96;1 | 802 | 208 |
| PE85091316.97;1 | 794 | 206 |
| PE85091317.98;1 | 789 | 205 |
| PE85091318.99;1 | 868 | 225 |
| PE85091320.100;1 | 636 | 165 |
| PE85091320.101;1 | 849 | 221 |
| PE85091321.102;1 | 784 | 204 |
| PE85091322.103;1 | 741 | 192 |
| PE85091323.104;1 | 508 | 132 |
| PE85091400.105;1 | 406 | 106 |
| PE85091400.106;1 | 799 | 208 |
| PE85091401.107;1 | 791 | 205 |

| | | |
|---|---|---|
| PE85091402.108;1 | 112 | 29 |
| PE85091403.109;1 | 801 | 208 |
| PE85091404.110;1 | 670 | 174 |
| PE85091404.111;1 | 820 | 213 |
| PE85091405.112;1 | 766 | 199 |
| PE85091406.113;1 | 793 | 206 |
| PE85091407.114;1 | 798 | 207 |
| PE85091408.115;1 | 863 | 224 |
| PE85091409.116;1 | 725 | 188 |
| PE85091410.118;1 | 805 | 209 |
| PE85091411.120;1 | 364 | 95 |
| PE85091412.121;1 | 576 | 150 |
| PE85091412.122;1 | 253 | 66 |
| PE85091413.123;1 | 662 | 172 |
| PE85091413.124;1 | 775 | 201 |
| PE85091414.125;1 | 1094 | 284 |
| PE85091415.126;1 | 851 | 221 |
| PE85091416.127;1 | 759 | 197 |
| PE85091417.128;1 | 923 | 240 |
| PE85091419.129;1 | 389 | 101 |
| PE85091419.130;1 | 730 | 190 |

Total of 102 files, 54245 blocks.

# ICE Plasma Wave Archive Data Format

## E - channel data file

Header - two lines:

Year and Julian day number (Jan 1 = Day 1)

File starting time ( in milliseconds from the start of the day and in hh:mm:ss.ss ) and file ending time (in the same format)

Subheader - one line ( flagged by a " -99 " at the beginning of the line ) :

Bit rate ( values : 1 = 1 second data samples, 2 = 0.5 second, 3 = 2 second, 4 = 8 second ) and antenna modes ( values : 1 = u, 2 = v, 0 = bad ) separated by commas. Note that subheaders may not always be followed by data. If there was bad header data, the frame was zeroed out.

Data - Time in milliseconds, calibrated 16 channel data ( in order of lowest to highest frequency. Values : 17.8, 31.6, 56.2, 100, 178, 316, 562, 1000, 1780, 3160, 5620, 10000, 17800, 31600, 56200, 100000 Hz )

in units of Volts / (meter - $Hz^{1/2}$)

## B - channel data file

Header - two lines :

Year and Julian day number (Jan 1 = Day 1)

File starting and ending time ( in same format as E - channel )

Subheader - one line ( flagged by a " -99 " at the beginning of the line ) :

Four calibration flags ( ignore, only used for processing the data into archive format ), bit rate ( same as for E ), antenna modes ( same as for E )

Data - Time in milliseconds, calibrated 8 channel data ( in order of lowest to highest frequency. Values : 17.8, 31.6, 56.2, 100, 178, 316, 562, 1000 Hz). Notice that the lines are padded with zeroes. We only get one B sample at a time.

Units : nT / (~~meter~~ $Hz^{1/2}$)

```
1985 DAY 254
TIME     43156471   11:59:16.47 TO     46613916 12:56:53.92
-99,    0,    0,    0,    0, 1,1,1,1,1
     43156472,0.0000E+00,0.0000E+00,0.0000E+00,0.1140E-04,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43157468,0.0000E+00,0.0000E+00,0.0000E+00,0.1140E-04,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43158468,0.0000E+00,0.0000E+00,0.0000E+00,0.1140E-04,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43159468,0.0000E+00,0.0000E+00,0.6870E-05,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43160468,0.0000E+00,0.0000E+00,0.6870E-05,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43161468,0.0000E+00,0.0000E+00,0.6870E-05,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43162468,0.0000E+00,0.0000E+00,0.6870E-05,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43163468,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43164468,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43165464,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43166464,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43167464,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43168464,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43169464,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43170464,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
-99,    5,  124,  159,  249, 1,1,1,1,1
     43171464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.3822E-04
     43172464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.3139E-04
     43173464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.3139E-04
     43174464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.3396E-04
     43175464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.2793E-04,0.0000E+00
     43176460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.2716E-02,0.0000E+00
     43177460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.2685E-04,0.0000E+00
     43178460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.3021E-04,0.0000E+00
     43179460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.3399E-04,0.0000E+00,0.0000E+00
     43180460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.3833E-04,0.0000E+00,0.0000E+00
     43181460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.3538E-04,0.0000E+00,0.0000E+00
     43182460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.3683E-04,0.0000E+00,0.0000E+00
     43183460,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.1729E-02,0.0000E+00,0.0000E+00,0.0000E+00
```

File:

PB8509 1111.38

Sample B-channel data

```
1985 DAY 254
TIME     43156471   11:59:16.47 TO     46613916 12:56:53.92
-99, 1, 1, 1, 1, 1
     43156472,0.0000E+00,0,0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43157468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43158468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43159468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43160468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43161468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43162468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43163468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43164468,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43165464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43166464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43167464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43168464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43169464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
     43170464,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,
              0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
-99, 1, 1, 1, 1, 1
     43171464,0.1781E-04,0.6684E-05,0.5382E-05,0.9255E-05,0.8934E-05,0.6357E-05,
              0.3411E-05,0.6455E-05,0.5602E-04,0.1720E-04,0.1119E-05,0.3818E-07,
              0.3736E-07,0.1200E-07,0.3256E-08,0.2527E-08
     43172464,0.1240E-04,0.2637E-05,0.5484E-06,0.1056E-05,0.5177E-06,0.5628E-06,
              0.1007E-05,0.1510E-05,0.3239E-04,0.1308E-04,0.6665E-06,0.2583E-07,
              0.8521E-08,0.4832E-08,0.2575E-08,0.2431E-08
     43173464,0.6066E-04,0.3737E-05,0.1821E-05,0.3916E-05,0.3457E-05,0.1782E-05,
              0.5801E-06,0.3069E-05,0.4402E-05,0.1644E-05,0.1024E-06,0.1329E-07,
              0.5948E-08,0.4124E-08,0.2477E-08,0.2527E-08
     43174464,0.3415E-04,0.7222E-05,0.2787E-05,0.3463E-05,0.2727E-05,0.2008E-05,
              0.1145E-04,0.1786E-04,0.1041E-04,0.2248E-05,0.1652E-06,0.1382E-07,
```

File
PE 8509111 38

Sample E-channel data

D 022194

9/13/85 - 9/14/85

ASCII LIST OF LIZ-3

FILE 1 RECORD 1 80 BYTES

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VOL1ICEGZ3                                                                      3
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ASCII LIST OF LIZ-3

FILE 1 RECORD 2 80 BYTES

9/13/85

```
HDR1PB85091300.76    ICEGZ300010001000100 90081 00000 000000DECFILE11A
```

FILE 2 RECORD 1 2048 BYTES

```
0017 1985 DAY 2560064 TIME      2582954    0:43: 2.95 TO      3656470  1: 0:56.470043 -99,    0,    0,    0,    0, 0,1,1,1,10043 -99
,    0,    0,    0,    0, 3,1,1,1,10063       2582953,0.0000E+00,0.0000E+00,0.6870E-05,0.0000E+00,0062               0.0000E+00,0.00
00E+00,0.0000E+00,0.0000E+000063       2584952,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,
0.0000E+00,0.0000E+000063       2586951,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E
+00,0.0000E+000063       2588950,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.0
000E+000063       2590949,0.0000E+00,0.2160E-04,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00
0063       2592949,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+000063
    2594948,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+000063       259
6947,0.1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+000063       2598946,0.
1250E-03,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+000043 -99,    5,  124,  159,
 249, 3,1,1,1,10063       2600946,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.
3396E-040063       2602945,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.3018E-0
40063       2604944,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.3018E-040063
     2606943,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.0000E+00,0.3139E-040063       26
08942,0.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,0062               0.0000E+00,0.0000E+00,0.2793E-04,0.0000E+000063       2610941,0
.0000E+00,0.0000E+00,0.0000E+00,0.0000E+00,^^^^^^^^^^^^^^^^^^^^^^^^^^
```

ASCII LIST OF LIZ-3

FILE 305 RECORD 1 2048 BYTES

0017 1985 DAY 2570064 TIME 71804797 19:56:44.80 TO 75073323 20:51:13.320023 -99, 0, 1, 1, 1, 10023 -99, 0, 1, 1, 1, 10023
-99, 3, 1, 1, 1, 10085 71804800,0.2741E-03,0.3509E-04,0.1123E-04,0.1952E-05,0.3221E-06,0.5184E-07,0085 0.4670E-07
,0.2131E-07,0.1453E-07,0.1187E-07,0.1101E-07,0.6583E-08,0062 0.4154E-08,0.5026E-08,0.2477E-08,0.2431E-080085 7180
6792,0.1158E-03,0.1106E-04,0.7474E-06,0.5053E-06,0.1460E-06,0.4984E-07,0085 0.4858E-07,0.2049E-07,0.1397E-07,0.1141E-0
7,0.1101E-07,0.6583E-08,0062 0.4154E-08,0.4832E-08,0.2575E-08,0.2431E-080085 71808792,0.4551E-04,0.5950E-05,0.358
2E-06,0.3091E-06,0.1107E-06,0.4984E-07,0085 0.4490E-07,0.2049E-07,0.1397E-07,0.1141E-07,0.1101E-07,0.6583E-08,0062
0.4154E-08,0.5026E-08,0.2575E-08,0.2431E-080085 71810792,0.2841E-03,0.3789E-04,0.1591E-04,0.2300E-05,0.3351E-06,0.51
84E-07,0085 0.4316E-07,0.2049E-07,0.1397E-07,0.1141E-07,0.1101E-07,0.6583E-08,0062 0.4154E-08,0.4832E-08
,0.2477E-08,0.2431E-080085 71812792,0.1289E-03,0.1195E-04,0.8076E-06,0.5485E-06,0.1580E-06,0.5184E-07,0085 0.5053
E-07,0.2049E-07,0.1397E-07,0.1141E-07,0.1101E-07,0.6583E-08,0062 0.4154E-08,0.5026E-08,0.2575E-08,0.2431E-080085
71814792,0.4890E-04,0.6429E-05,0.3871E-06,0.3091E-06,0.1107E-06,0.4984E-07,0085 0.4670E-07,0.2049E-07,0.1397E-07,0.114
1E-07,0.1101E-07,0.6583E-08,0062 0.4154E-08,0.5026E-08,0.2575E-08,0.2431E-080085 71816792,0.1658E-03,0.4252E-04,0
.2525E-04,0.2822E-05,0.3773E-06,0.5184E-07,0085 0.4316E-07,0.2049E-07,0.1397E-07,0.1141E-07,0.1101E-07,0.6583E-08,0062
0.4154E-08,0.5026E-08,0.2575E-08,0.2431E-080085 71818792,0.1385E-03,0.1243E-04,0.8726E-06,0.5714E-06,0.1580E-06,
0.4984E-07,0085 0.5053E-07,0.2049E-07,0.1397E-07,0.1141E-07,0.1101E-07,0.6583E-08,0062 0.4154E-08,0.4832
E-08,0.2575E-08,0.2431E-08^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

ASCII LIST OF LIZ-3

FILE 306 RECORD 1 80 BYTES

9/14/85

EOF1PE85091419.130 ICEGZ300010102000100 90082 00000 000190DECFILE11A