Data Set Catalog # 212
Explorer 41, Hourly Averaged Count Rates
69-053A-07C 1 tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

SPHE 00732

IMP-G

HOURLY AVERAGED COUNT RATES, TAPE

69-053A-07C

This data set has been restored. There was originally one 7-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 360 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 |
|---|---|---|---|---|
| DR005358 | DS005358 | D011557 | 1 - 4 | 06/21/69 - 12/31/72 |

| REQ. AGENT | RASH NO. | ACQ. AGENT |
|---|---|---|
| JCH | RB3677<br>RB3862 | JHK |

EXPLORER 41

69-053A-07C

This data set catalogue consists of Explorer 41 hourly averaged count rate data. It contains one experimenter - supplied tape, which is seven track, 800 BPI, IBM/360 binary format, and the data is written with "TRTCH=C". The tape has four files. Each logical record consists of 3120 eigth-bit bytes, and contains data for one day. There are six logical records per physical record, and one file for each calendar year of data on the tape. Data given on an hour by hour basis within each logical record include time, ephemeris data, and hourly averaged count rates for each of the five experiment counting modes. The breakdown of the files is as follows:

File 1: IMP-G data - June 21, 1969 - Dec. 31, 1969
(this data is identical to the IMP-G data found in file 4 of the single tape that comprises 67-051A-07D)

File 2: IMP-G data - Jan. 1, 1970 - Dec. 31, 1970

File 3: IMP-G data - Jan. 1, 1971 - Nov. 15, 1971

File 4: IMP-G data - Feb. 1, 1972 - Dec. 23, 1972

Due to lack of tracking, there is no data for the period:
Nov. 15, 1971 - Feb. 1, 1972.

| D# | C# |
|---|---|
| D-11557 | C-08863 |

# IMP F and G SPME Hourly Average Tapes

This note is based on an APL memo intended to describe the contents of the IMP F & G hourly average tapes. Briefly, the energy ranges corresponding to the channel designations used in the attached format statement are:

channel 1: 60 Mev, geometric factor: 6.28 $cm^2$ ster
channel 2: 30 Mev, geometric factor: 6.28 $cm^2$ ster
channel 3: 10 Mev, geometric factor: 0.80 $cm^2$ ster
channel 4: 1-10 Mev protons, geometric factor: 1.7 $cm^2$ ster
channel 5: 1-10 Mev/nucleon alphas, geometric factor: 1.7 $cm^2$ ster (not reliable on IMP-F)

These tapes have a logical record consisting of a day's worth of data: 24 hours plus two additional hours. The averages were originally processed on an orbit by orbit (4 days) basis; so, usually two orbits contain data for the same hour. The two extra slots are alloted to the partial averages from the two averages. If a change of orbit did not occur during a day then these slots contain zeroes. Since the average for the entire hour is placed into the proper position, these two extra columns of data can be ignored by the typical user. The data can be read into a Fortran array dimensioned HRLYAV (30, 26) and hours 1 through 24 of the day referenced by using 1 to 24 for the second subscript.

If an entire day of data is missing, then there will be no logical record for it. However, whenever data is missing for less than a full day, then the tape contains interpolated data in these positions. The user can identify this data by inspecting the samples associated with the average. If the number of samples equals minus one, then the average represents an interpolated value, if the number of samples equals zero, then there is no data for the hour and the last valid data was more than a day away. "Missing data" can be data that is truly missing for an entire hour (very seldom) or data that has been edited by the experimenters because it doesn't represent valid results.

The ephemeris associated with each hourly average represents data for the time closest to the beginning of the hour. Item 32 of each hour contains the first minute of the hour for which there was data. If the hour had no data at all, then there will be no ephemeris for it.

The APL tapes were written with VBS record format, have a logical record length of 3124 bytes and are blocked 10 to 1 for a blocksize of 31244 bytes. They are nine-track tapes recorded at 800 BPI. A copy of this data is being sent to Goddard Space Flight Center for use on either the IBM 360's or on the IBM 7094. The tapes are seven-track and are recorded at 800 BPI. The physical records have fixed-blocked format, and are blocked 6 to 1. The logical record length is 3,120 8-bit bytes and the blocksize is 18,720 8-bit bytes (4,160 36-bit words). The data is written with "TRTCH=C".*

The IMP-F tape contains four files: 1967-file 1, 1968-file 2, 1969-file 3, 1969 IMP F & G file 4.

The IMP-G tape contains four files: 1969-file 1, 1970-file 2, 1971-file 3, 1972-file 4.

There is no data in file 4 of the IMP-F tape which is not also found in file 3 of the IMP-F tape or file 1 of the IMP-G tape.

*data conversion feature - 8 bit bytes are written in a packed format on 7-track tape.

Table 1: IMP F & G Hourly Average Format

| ITEM | TYPE | BYTE SIZE | IDENTIFICATION |
|---|---|---|---|
| 1 | integer | 2 | year |
| 2 | integer | 2 | day of year |
| 3 | integer | 2 | month |
| 4 | integer | 2 | day of month |
| 5 | integer | 4 | hour of day that average starts |
| 6 | real | 4 | geocentric longitude satellite posn. (degrees) |
| 7 | real | 4 | geocentric latitude satellite posn. (degrees) |
| 8 | real | 4 | radial distance from earth's center (km) |
| 9 | real | 4 | X solar ecliptic satellite posn. (km) |
| 10 | real | 4 | Y solar ecliptic satellite posn. (km) |
| 11 | real | 4 | Z solar ecliptic satellite posn. (km) |
| 12 | real | 4 | X solar magnetosphere satellite posn. (km) |
| 13 | real | 4 | Y solar magnetosphere satellite posn. (km) |
| 14 | real | 4 | Z solar magnetosphere satellite posn. (km) |
| 15 | real | 4 | $L_{SEP}$ (Sun-earth-probe angle in degrees) |
| 16 | real | 4 | L McIllwain magnetic shell radius |
| 17 | real | 4 | B magnetic field strength (gauss) |
| 18 | real | 4 | $B/B_0$ |
| 19 | real | 4 | Magnitude of velocity (km/sec) |
| 20 | real | 4 | $R_0$ geomagnetic coordinate |
| 21 | real | 4 | latitude geomagnetic coordinate |
| 22 | real | 4 | channel 1's average - counts/sec |
| 23 | integer | 4 | number * of samples in average |
| 24 | real | 4 | channel 2's average - counts/sec |
| 25 | integer | 4 | number of samples in average |
| 26 | real | 4 | channel 3's average - counts/sec |
| 27 | integer | 4 | number of samples in average |
| 28 | real | 4 | channel 4's average - counts/sec |
| 29 | integer | 4 | number of samples in average |
| 30 | real | 4 | channel 5's average - counts/sec |
| 31 | integer | 4 | number of samples in average |
| 32 | integer | 1 | first minute of hour that there was data |
| 33 | integer | 1 | data flag** |
| 34 | integer | 2 | orbit number corresponding to the data |
| 35 | Repeat of items 1 thru 34 for another 25 times. | | |
| | Data can be read into a full word array AVS (30,26). | | |

* if the number of samples is -1, then the corresponding average is a value found by interpolation.

** The flag has the following values:

0 - no data for this hour
1 - data for this hour - in middle of an orbit
2 - data for this hour - first hour of an orbit, unaveraged with the previous orbit
3 - data for this hour - last hour of an orbit, unaveraged with the previous orbit
4 - data for this hour - weighted average of two orbits containing the same hour

RECORD 1 OF FILE 1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 07B100AC | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5BF5F0 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000001 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5BBFC0 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000002 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5B81A0 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000003 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5B4780 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000004 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5B0C60 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000005 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5AD340 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000006 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5A9920 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000007 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5A5F00 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000008 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F5A24D0 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 00000009 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F59EAB0 | FFFFFFFF | 00000000 |
| 07B100AC | 00000000 | 0000000A | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 3F59B090 | FFFFFFFF | 00000000 |
| 07B100AC | 00060015 | 0000000B | 421B0C64 | C21886S8 | 44965C31 | 4460A115 | 4422592A | C46DF5AA | 4460A115 |
| 4391CFCA | C472D6A6 | 42322289 | 4178A95E | 3E71CA22 | 4125FA82 | 41410117 | 4175F5D1 | C219389B | 41844E37 |
| 00000000 | 415F1E11 | 00000000 | 434F1FFA | 00000000 | 411C46AA | 00000000 | 3F59765E | 0000001F | 0B020001 |
| 07B100AC | 00060015 | 0000000C | 41F24EEC | C2120BCC | 44BD2F04 | 4488211C | 442E53C8 | C47AEF60 | 4488211C |
| 4412EA4F | C482016F | 422BFB69 | 4186784E | 3E32FB22 | 4117ADB7 | 4138035F | 41841A0C | C210768F | 414F8E65 |
| 00000000 | 416C9BBD | 00000000 | 431CC3B4 | 00000000 | 40C3B2DE | 0000001F | 3F42AAAA | 00000020 | 0C010001 |
| 07B100AC | 00060015 | 0000000D | 4066D594 | C1CE2A81 | 44E6F2D6 | 44B2D4A1 | 443B0145 | C485B2CC | 44B2D4A1 |
| 44205D1A | C4BEB2DE | 42274187 | 4199A363 | 3E19E225 | 4111F3DB | 4130BCFD | 4197A445 | C188523D | 413F5592 |
| 00000000 | 414324DE | 00000000 | 427D5D33 | 00000000 | 4CCB5552 | 0000001C | 3F374F02 | 00000018 | 0C010001 |
| 07B100AC | 00060015 | 0000000E | C1F1C7BD | C1918A7D | 4510DC03 | 44DAAA65 | 4446SACS | C4BD4CEB | 44DAAA65 |
| 44307906 | C4565656 | 4223D801 | 41AF1A9C | 3DFBA862 | 41102682 | 412B5896 | 41AD7410 | C120C76A | 4133344B |
| 00000012 | 413A2355 | 00000011 | 4176BA72 | 00000000 | 40F0674D | 00000021 | 3F2F684E | 00000024 | 03010001 |
| 07B100AC | 00060015 | 0000000F | C21D52D6 | C1672295 | 4512DD9E | 44FBBA3C | 445012AB | C4921148 | 44FBBA3C |
| 44405366 | C459719D | 42217E7E | 41C385B4 | 3DB3CEFB | 41101C8A | 41278E13 | 41C24429 | 412AA5C5 | 413D19A |
| 00000016 | 41381962 | 00000016 | 49BAAAA0 | 00000000 | 40B28951 | 00000029 | 3F22BABA | 0000002B | 0C010001 |
| 07B100AC | 00060015 | 00000010 | C22C3E30 | C1431B14 | 4514C8A1 | 4511B9D5 | 44591194 | C49573DC | 4511B9D9 |
| 4452EF15 | C49BF1B2 | 421FB6E1 | 41D9D3A5 | 3D8BA1FE | 4110E152 | 41245341 | 41D877E5 | 416860E6 | 41324382 |
| 00000013 | 413SBADA | 00000014 | 40330E8C | 00000029 | 4CCD33ED | 00000029 | 3F565963 | 0000002A | 0C010001 |
| 07B100AC | 00060015 | 00000011 | C23B2EAB | C124F08D | 451693C2 | 45139224 | 44614617 | C49793D9 | 45139224 |
| 4464EF1B | C4952A4C | 421DE814 | 41EFBA28 | 3D6D206E | 4111FDC6 | 41219F3F | 41EF38E3 | 41950762 | 41344EC5 |
| 00000013 | 413849E1 | 00000016 | 4037DB16 | 00000025 | 4CAB7BF4 | 0000002E | 3F3FFFFE | 00000028 | 0C010001 |
| 07B100AC | 00060015 | 00000012 | C24A22E1 | C0623CEF | 45183B59 | 45154SC7 | 4468CD56 | C498BAB0 | 45154SC7 |
| 4475A77E | C4BF09DB | 421C8925 | 42103BD0 | 3D59DA02 | 4112D1F4 | 411F4D0F | 421027D3 | 41B0E425 | 4132D57A |

D-11557
EXPLORER 41
800 BIN, 9 track, 4 files
IMP-G
1969-1972
June 21, 1969 -
Dec. 31, 1969
(file 1)
1st & last records

File 1 is IMP-G
Data for 1969

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 00000014 | 4137B5F4 | 00000014 | 4039FC9B | 00000025 | 40D22B6B | 00000024 | 3F37DF7C | 0000002A | 0C010C01 |
| 07B100AC | 00060015 | 00000013 | C2591BFE | 40B82197 | 4519C667 | 4516E489 | 446FBD2A | C49905E5 | 4516E489 |
| 44942A7B | C487C566 | 421EEA17 | 42115744 | 3D4B65FC | 41133FEE | 411D4ABE | 42114606 | 418CA09A | 41349540 |
| 00000011 | 41392857 | 00000011 | 4034EDE2 | 00000021 | 40D10AF0 | 00000022 | 3F540A56 | 00000021 | 00010001 |
| 07B100AC | 00060015 | 00000014 | C2681317 | 411FAC44 | 451B37FF | 45186607 | 44762657 | C498AA5B | 451B6607 |
| 448FFE97 | C48096B8 | 421AE023 | 42124430 | 3D401949 | 4113209A | 411B7610 | 42123753 | 41899833 | 41310402 |
| 00000016 | 4139021F | 00000016 | 4031EC24 | 0000002B | 40D14D41 | 0000002B | 3F594D62 | 0000002B | 00010001 |
| 07B100AC | 00060015 | 00000015 | C2770F75 | 4131ED7D | 41C926FF | 4519D05C | 447C09CF | C497B589 | 4519D05C |
| 4498F556 | C47A78F7 | 421561EC | 421306B1 | 3D3715BC | 41129342 | 4119D529 | 4212FE8F | 41A9FE41 | 4132EC85 |
| 00000013 | 4138241A | 00000013 | 40343EDF | 00000024 | 40B76C53 | 00000025 | 3F3823ED | 00000026 | 00010001 |
| 07B100AC | 00060015 | 00000016 | C2860FD1 | 4142882C | 451DD806 | 451B254F | 4481882E | C4964875 | 451B254F |
| 449F6EBC | C4761A52 | 421E8D19 | 4213AA9F | 3D2FB842 | 4111D177 | 411859FE | 4213A664 | 41908C9D | 413DCACB |
| 00000014 | 41377A12 | 00000015 | 4039E2D8 | 00000029 | 40B175C3 | 0000002A | 3F4FFFFF | 00000028 | 00010001 |
| 07B100AC | 00060015 | 00000017 | C2950526 | 4151CEC9 | 451F0A54 | 451C66AE | 4486A44A | C4946F69 | 451C66AE |
| 44A39242 | C473C897 | 4217C5B | 42143E89 | 3D2A0CD1 | 41111AD5 | 4116FE05 | 42143CC7 | 41709088 | 41316381 |
| 0000000F | 41365BBF | 0000000E | 4037B6D8 | 0000001C | 40BE7BE4 | 0000001C | 3F337E86 | 0000001D | 00010001 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000030 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 | 00000000 |
| 07B100AC | 00060015 | 00000018 | 42180C64 | C2186658 | 44965C31 | 4460A115 | 4422592A | C46DF5AA | 4460A115 |
| 4391CFCA | C472D6A6 | 42322239 | 4178A55E | 3E71CA22 | 4125FA82 | 41410117 | 4175F5D1 | C2193583 | 41844837 |
| 0000000E | 419F1E11 | 0000000F | 434F1FFA | 0000001F | 411046AA | 00000020 | 3F59765F | 0000001F | 0B020001 |
| 07B100AD | 00060016 | 00000000 | C2A4074 | 415FFB1B | 45202AAD | 451D95DC | 448B62CE | C4923699 | 451D95DC |
| 44A5B34F | C473BAF4 | 42171C42 | 4214CEF4 | 3D257029 | 41108309 | 4115BC54 | 4214CE3E | 41AD9833 | 41358BFA |
| 00000016 | 4135935F | 00000016 | 403A7C1B | 0000002C | 40B476FA | 0000002B | 3F5C1FC7 | 0000002C | 00010001 |
| 07B100AC | 00060016 | 00000001 | C2B30622 | 416D38CD | 45213A40 | 451EB406 | 448FCA36 | C48FA905 | 451EB406 |
| 44A6102D | C4753443 | 42167A53 | 421561B4 | 3D21C55E | 411029AC | 4114910F | 421562A3 | 412AF0B7 | 413DD889 |
| 0000000E | 413832DA | 00000010 | 4039EFAA | 00000021 | 40B7FFF7 | 0000001E | 3F4BB2EF | 0000001F | 00010001 |
| 07B100AD | 00060016 | 00000002 | 42A5FA33 | 417BAAC2 | 45223A0F | 451FC22C | 4493E019 | C48CCFDC | 451FC22C |
| 44A4E56C | C47B6F24 | 4215E496 | 4215FCC7 | 3D1ED4C1 | 411004C3 | 41137929 | 4215FBE5 | 40C1AE91 | 4131F4EA |
| 00000013 | 413C2DB | 00000010 | 402DE1DC | 00000022 | 40BC30EE | 00000023 | 3F4AF476 | 00000025 | 00010001 |
| 07B100AD | 00060016 | 00000003 | 4296EA1C | 41856CEA | 45232AF2 | 4520C126 | 4497A930 | C489B2FB | 4520C126 |
| 44A27379 | C47CC967 | 4215E579 | 4216E2F8 | 3D1C6A8A | 41100130 | 41127234 | 4216B699 | C0BEE3EC | 4132B907 |
| 0000000F | 41360C5C | 0000000E | 4036955I | 00000020 | 40A2AAA2 | 0000001E | 3F5C71C4 | 0000001E | 00010001 |
| 07B100AD | 00060016 | 00000004 | 4286B669 | 4191A3A2 | 452422DA | 4521C837 | 449B7CAB | C486031D | 4521C837 |
| 449EA933 | C4823D24 | 4214CB9C | 41735BBF | 3D1A334D | 41100A02 | 411162F2 | 42173A4A | C11BC380 | 41335AD1 |
| 00000010 | 413B903C | 00000010 | 402AEAA6 | 00000020 | 40A7EAAB | 00000020 | 3F495553 | 00000020 | 06010001 |
| 07B100AD | 00060016 | 00000005 | 4273F869 | 419B3BB8 | 4524E2E5 | 45229482 | 449E6573 | C482C7BF | 45229482 |
| 449B01E1 | C486C79F | 4214EE31 | 4217B36C | 3D1B9E6A | 41100C2B | 41108F7A | 4217B6FF | C11EC629 | 41324745 |
| 00000006 | 413BAADD | 00000006 | 403D1C6E | 0000000C | 40D31C9B | 0000000C | 3F8E38E0 | 0000000C | 00010001 |
| 07B100AD | 00060016 | 00000006 | 425F0D13 | 41AC9341 | 45263505 | 4523FD75 | 44A3625B | C47C2A75 | 4523FD75 |
| 4493F8BA | C4B82ECC | 4213BD57 | 421B8DDA | 3D161355 | 41100025 | 40F15870 | 421889E8 | C09228A4 | 4136AE65 |
| 00000006 | 413E0E65 | 00000006 | 403AE38D | 0000000C | 40C15572 | 0000000C | 3F238E33 | 0000000C | 20010001 |
| 07B100AD | 00060016 | 00000007 | 425A46AB | 41AFA4A1 | 45266F4D | 45243BDB | 44A43967 | C47AE3F5 | 45243BDB |
| 4492D394 | C4BF39D2 | 42137DEE | 421B84A4 | 3D15AC86 | 41100083 | 40ED3999 | 4218AEB5 | C013F86E | 41352348 |
| 00000011 | 413764BC | 00000011 | 402B231E | 00000022 | 40B9E1DA | 00000022 | 3F2BEBEA | 00000022 | 03010001 |
| 07B100AD | 00060016 | 00000008 | 424BF36C | 41B8A324 | 452716F0 | 4524EFAD | 44A69A7A | C476F79F | 4524EFAD |
| 448FF87E | C4918AA6 | 42131B4A | 42192CA9 | 3D149ADE | 41101B6A | 40E133C4 | 421920DD | 411D2695 | 41319A8B |
| 00000015 | 413BBC5E | 00000015 | 40341C3B | 0000002A | 40BA0806 | 0000002A | 3F2FD449 | 00000029 | 00010001 |
| 07B100AC | 00060016 | 00000009 | 423B7DF2 | 41C29E34 | 4527CA87 | 4525B0F6 | 44A91575 | C4724A8A | 4525B0F6 |
| 448E26EA | C49270BC | 42128274 | 421BCAF8 | 3D13A789 | 41108326 | 40D40B5E | 4219B9CB | 41481997 | 41322104 |
| 00000013 | 413A06FC | 00000013 | 40371672 | 00000026 | 40BB554A | 00000026 | 3F3DC11F | 00000026 | 00010001 |
| 07B100AD | 00060016 | 0000000A | 422DCEA9 | 41CA9692 | 45285459 | 452645CF | 44AAEE6E | C46E50EF | 45264EDF |
| 448E269F | C4918D7 | 421260AC | 421A6A7C | 3D131CFF | 41113FEF | 40C9B376 | 421A58FE | 4177EF1B | 4132FB1C |
| 00000015 | 413BAD2 | 00000015 | 40370F7A | 0000002A | 40CD65B0 | 0000002A | 3F32CB2E | 0000002A | 00010001 |
| 07B100AD | 00060016 | 0000000B | 421EEC0D | 41D32CA7 | 452BE28A | 4526DFF0 | 44ACC6F1 | C469C8B8 | 4526DFF0 |
| 448FF39C | C4BFBE9B | 42120A9D | 421B4863 | 3D12C4A2 | 4112A946 | 40BEC07C | 421B3B0A | 41AE7D85 | 413276A8 |
| 00000012 | 4136AE62 | 00000012 | 403A84BA | 00000024 | 40B45EC0 | 00000024 | 3F3B425C | 00000024 | 00010001 |
| 07B100AD | 00060016 | 0000000C | 41FEE243 | 41DBBA15 | 45256610 | 45276F29 | 44AF6BBF | C4652B3B | 45276F29 |
| 449384BD | C4B9407F | 4211BBF1 | 421C6C26 | 3D12A887 | 4114DF21 | 40B45025 | 421C5B01 | 41E77555 | 41343CC7 |
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55 RECORDS IN FILE  4 OF TAPE