

#450

DMSP-F2

PARTICLE DATA

77-044A-03A SPMS-00002

(CDAW)

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

DMSP 5D-1/F2
PARTICLE DATA ON TAPE

77-044A-03A SPMS-00002

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED TWO 9-TRACK, 1600 BPI TAPES WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005205	DS005205	D032369	1	12/01/77 - 12/12/77
		D046608	2	03/22/79 - 04/01/79

REQ. AGENT
VJP
LSM

RAND NO.
RD1068
V0144

ACQ. AGENT
MJT
DMS

DMSP-F2

PARTICLE DATA

77-044A-03A

This data set catalog consists of 2 data tapes. These tapes are 9 track, 1600 BPI, ASCII with one file of data. These tapes were created on an IBM 360 computer.

TIME SPANS ARE AS FOLLOWS:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-32369	C-20209	12/01/77 - 12/12/77
D-46608	C-21734	03/22/79,03/31/79,04/01/79

DUMP OF TAPE X-207

INPUT TAPE X-207 ON MS1
DATA INPUT H9 FL 1 1 1

D-32369

DMSP-F2

12/01/77-12/12/77

FILE 1 RECORD 204 LENGTH 2600BYTES

(0)	20373731	32103120	20313530	36323720	2034322E	36202020	35322E33	20202020	20383738	20203434
(40)	2E392020	2035342E	37202035	322E3220	3130392E	33202020	20313733	36202020	20202020	20202020
(80)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(120)	20202020	20202020	20202020	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(160)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(200)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(240)	20203120	20202020	20203120	20202020	20203120	20373731	32303120	20313530	36333120	2034322E
(280)	38202020	35322E33	20202020	20383738	20203435	2E322020	2035342E	36202035	322E3420	3130392E
(320)	30202020	20313733	35202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(360)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20203120
(400)	20202020	20203320	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(440)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(480)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(520)	20373731	32303120	20313530	36333520	2034332E	31202020	35322E32	20202020	20383738	20203435
(560)	2E342020	2035342E	36202035	322E3620	3130382E	38202020	20313733	34202020	20202020	20202020
(600)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(640)	20202020	20202020	20202020	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(680)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(720)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(760)	20203120	20202020	20203120	20202020	20203120	20373731	32303120	20313530	36333920	2034332E
(800)	33202020	35322E31	20202020	20383738	20203435	2E362020	2035342E	35202035	322E3720	3130382E
(840)	36202020	20313733	34202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(880)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20203220
(920)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(960)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(1000)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(1040)	20373731	32303120	20313530	36343320	2034332E	35202020	35322E30	20202020	20383830	20203435
(1080)	2E382020	2035342E	34202035	322E3920	3130382E	34202020	20313733	33202020	20202020	20202020
(1120)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(1160)	20202020	20202020	20202020	20202020	20203220	20202020	20203120	20202020	20203120	20202020
(1200)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(1240)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(1280)	20203120	20202020	20203120	20202020	20203120	20373731	32303120	20313530	36343720	2034332E
(1320)	38202020	35312E39	20202020	20383830	20203436	2E312020	2035342E	34202035	332E3120	3130382E
(1360)	31202020	20313733	32202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(1400)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20203120
(1440)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(1480)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(1520)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(1560)	20373731	32303120	20313530	36353120	2034342E	30202020	35312E38	20202020	20383830	20203436
(1600)	2E332020	2035342E	33202035	332E3220	3130372E	39202020	20313733	31202020	20202020	20202020
(1640)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(1680)	20202020	20202020	20202020	20202020	20203220	20202020	20203220	20202020	20203120	20202020
(1720)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(1760)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(1800)	20203120	20202020	20203120	20202020	20203120	20373731	32303120	20313530	36353520	2034342E
(1840)	32202020	35312E37	20202020	20383830	20203436	2E352020	2035342E	32202035	332E3420	3130372E
(1880)	36202020	20313733	30202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(1920)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20203220
(1960)	20202020	20203320	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(2000)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(2040)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120
(2080)	20373731	32303120	20313530	36353920	2034342E	34202020	35312E36	20202020	20383830	20203436
(2120)	2E372020	2035342E	32202035	332E3520	3130372E	35202020	20313732	39202020	20202020	20202020
(2160)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(2200)	20202020	20202020	20202020	20202020	20203120	20202020	20203120	20202020	20203120	20202020
(2240)	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020

(2360)	37202020	35312E36	20202020	20202020	20203120	20203436	2E392020	2035342E	20313530	37303320	2034342E
(2400)	32202020	20313732	39202020	20202020	20202020	20202020	20202020	20202020	20202020	332E3620	3130372E
(2440)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
(2480)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20203120	20202020	20203120
(2520)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20202020	20203120
(2560)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20202020	20203120

FILE	1	RECORD	1370	LENGTH	1040BYTES						
(0)	20373731	32313220	20203730	36303320	2038302E	36202031	30312E31	20202020	20383834	20203830	
(40)	2E302020	3130372E	36202038	322E3820	2034332E	37202020	20203532	32202020	20202020	20202020	
(80)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	
(120)	20202020	20202020	20202020	20202020	20202020	20333120	20202020	20343420	20202020	20343220	20202020
(160)	20343720	20202020	20333620	20202020	20323020	20202020	20203520	20202020	20203220	20202020	
(200)	20313520	20202020	20203420	20202020	20203220	20202020	20203120	20202020	20203120	20202020	
(240)	20203120	20202020	20203120	20202020	20203120	20373731	32313220	20203730	36303720	2038302E	
(280)	36202020	39392E37	20202020	20383834	20203830	2E312020	3130362E	35202038	322E3620	2034342E	
(320)	33202020	20203532	35202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	
(360)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	
(400)	20202020	20363520	20202020	20373320	20202020	31303420	20202020	20363920	20202020	20333820	
(440)	20202020	20313620	20202020	20203820	20202020	20323120	20202020	20203820	20202020	20203220	
(480)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	
(520)	20373731	32313220	20203730	36313120	2038302E	37202020	39382E34	20202020	20383834	20203830	
(560)	2E322020	3130352E	33202038	322E3420	2034352E	30202020	20203532	38202020	20202020	20202020	
(600)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	
(640)	20202020	20202020	20202020	20202020	20202020	20313220	20202020	20313920	20202020	20333020	20202020
(680)	20333220	20202020	20323520	20202020	20323020	20202020	20203720	20202020	20203520	20202020	
(720)	20313420	20202020	20203720	20202020	20203320	20202020	20203220	20202020	20203120	20202020	
(760)	20203120	20202020	20203120	20202020	20203120	20373731	32313220	20203730	36313520	2038302E	
(800)	37202020	39372E30	20202020	20383834	20203830	2E332020	3130342E	31202038	322E3220	2034352E	
(840)	34202020	20203532	39202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	
(880)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20313220	
(920)	20202020	20313520	20202020	20313820	20202020	20323720	20202020	20323320	20202020	20313320	
(960)	20202020	20203620	20202020	20203420	20202020	20313120	20202020	20203520	20202020	20203220	
(1000)	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	20202020	20203120	

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY				INPUT RETRIES	
	RECS.	INPUT	SIZE	PERM	ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#
1	1370	1371	2600	0	2	0	0	7	7

EOJ DUMP STOPPED AFTER FILE 1 # OF PERMANENT READ ERRORS 0

START TIME 10/26/78 10:39:02 STOP TIME 10/26/78 10:39:53

REQ. AGENT

LSM

REQ NUMBER

V0144

ACQ. AGENT

DMS

77-044A-03A

PRECIPITATING ELECTRON SPECTROMETER

This data set consists of 1 tape(s). The tape(s) is 9 track, 1600 bpi, ASCII with 1 file(s) of data. The time span and D and C numbers are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-46608	C-21734	3/22/79, 3/31/79, 4/1/79



79-050A-03A

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
National Geophysical and Solar-Terrestrial Data Center
Boulder, Colorado 80303

August 20, 1981

D64:HWK

Dr. D. Sawyer
Code 601, NSSDC
NASA/GSFC
Greenbelt, MD 20771

Dear Don:

The DMSP precipitating electron data for CDAW-6 is on the enclosed tape. I believe the data format is identical to what was given to you before, namely 4 second averages of the counts of each of the 16 channels along with the ephemeris data, also every 4 seconds, combine to form a logical record. However, the tape format is probably different. This tape is unlabeled, 1600 bpi, ASCII coded, 200 characters per record, 25 records per block, and 20,012 total records. The enclosed listing shows you every 20th record on the tape. I'll be happy to answer any questions you may have.

We are now stripping the integrated energy flux values and the >40 keV electron channels data off the NOAA/TIROS data archive tapes. That should be sent to you in a couple of weeks. And finally, we are preparing a tape of the location of the auroral zone using all available DMSP, NOAA and TIROS data and the Feldstein oval to get all magnetic local times for the Rice group. Do you also want a copy?

Sincerely,

Herb Kroehl
Physicist

Enclosures

questions: what spectrum?
what are units?

DMSP-SD-F4

20.6 LT
8.6 LT



DMSF - FY Format

This format information is derived from an examination of the tape dump.

Each 200 character record contains the following quantities in order:

YYMMDD	Year, Month, Day
HHMMSS	ZT TIME in Hours, Minutes, seconds
GLAT	Geographic latitude of satellite
GLON	Geographic long. of satellite
HT	Height of satellite (KM)
CLAT	
CLON	
MLAT	Magnetic latitude
MLON	Magnetic Longitude
CONTIN	
L1	Counts in 0.75 seconds for channel 1 (511 keV)
L2	
L3	
L4	
L5	
L6	
L7	
L8	
H1	
H2	
H3	
H4	
H5	
H6	
H7	
H8	
H9	
H10	
H11	
H12	
H13	
H14	
H15	
H16	
H17	
H18	
H19	
H20	
H21	
H22	
H23	
H24	
H25	
H26	
H27	
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H51	
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H53	
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H64	
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H70	
H71	
H72	
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H93	
H94	
H95	
H96	
H97	
H98	
H99	
H100	

Counts in 0.75 seconds for channel 16 (2048 keV)

DMSP-F4 Documentation

Normalization Factors for DMSP-F4 electron spectrometer.

Note: FWHM ~ 590 Flux (#/cm²-ster-keV-sec) = (channel/N) * 10³ * (1/590)

Each channel has the counts in 0.095 seconds.

Ch Center Energy (eV) Normalization = N

L1	51.1	1.67×10^{-3}
L2	76.8	3.31×10^{-3}
L3	110	4.73×10^{-3}
L4	133	7.86×10^{-3}
L5	264	1.13×10^{-2}
L6	434	1.86×10^{-2}
L7	661	2.84×10^{-2}
L8	1075	4.49×10^{-2}
H1	1560	4.36×10^{-1}
H2	1570	1.94×10^{-1}
H3	2270	2.47×10^{-1}
H4	3790	3.25×10^{-1}
H5	5500	4.00×10^{-1}
H6	8770	5.57×10^{-1}
H7	13700	7.16×10^{-1}
H8	20000	1.05×10^0

low range

High range

SNOP

SNOP ***** X-393 *****
\$EXEC TPLIST BS

D-~~47285~~

3/22/79, 3/31/79

4/1/79

D-46608

INPUT PARAMETERS ARE: AS FL=10=10 1

TAPE NO.	1	FILE NO.	1											
RECORD	1	LENGTH	5000											
790322	151948	5.6	258.6	864	15.1	260.1	23.5	326.1	81818	3	21	5		
9	6	4	4	1	1	2	2	2	1	2	1	1		
0	790322	151952	5.9	258.6	864	15.3	260.0	23.6	326.0	81801	3	41	0	
8	9	6	4	1	1	2	2	2	1	1	2	1		
1	0	790322	151956	6.1	258.5	864	15.4	260.0	23.8	325.9	81744	2	6	91
3	5	3	5	1	1	2	2	2	2	1	1	1		
1	0	790322	152000	6.3	258.5	864	15.5	259.9	23.9	325.9	81728	3	7	91
0	5	3	4	2	1	4	1	1	2	1	1	1		
1	0	790322	152004	6.6	258.4	864	15.7	259.8	24.0	325.8	81711	3	71	
2	7	5	6	5	1	1	2	1	2	2	1	1		
1	0	790322	152008	6.8	258.4	864	15.8	259.8	24.2	325.7	81654	3	6	
9	8	7	4	3	1	1	2	2	1	1	1	1		
1	1	0	790322	152012	7.0	258.3	864	16.0	259.7	24.3	325.6	81638	4	21
0	7	5	3	3	1	1	1	3	1	1	1	2		
1	1	0	790322	152016	7.2	258.3	864	16.1	259.6	24.4	325.5	81621	3	61
31	1	4	3	5	1	1	3	1	1	2	1	1		
1	2	0	790322	152020	7.5	258.2	864	16.2	259.6	24.6	325.4	81604	3	
61	51	1	5	4	4	1	1	1	1	2	1	1		
2	1	0	790322	152024	7.7	258.1	864	16.4	259.5	24.7	325.3	81547	3	
4	91	0	4	3	3	1	1	2	2	2	1	3		
1	1	0	790322	152028	7.9	258.1	864	16.5	259.4	24.9	325.2	81530	3	
6	81	1	4	5	5	1	1	3	1	2	1	1		
1	1	0	790322	152032	8.2	258.0	864	16.7	259.4	25.0	325.1	81514	3	
71	2	8	6	3	5	1	1	2	2	2	2	1		
2	1	0	790322	152036	8.4	258.0	864	16.8	259.3	25.2	325.1	81457		
3	31	3	8	4	2	4	1	1	2	1	2	2		
1	1	0	790322	152040	8.6	257.9	864	17.0	259.2	25.3	325.0	81440		
3	91	2	7	4	4	7	2	1	1	2	1	1		
1	1	0	790322	152044	8.9	257.9	862	17.1	259.2	25.5	324.9	81422		
3	71	0	7	5	3	5	1	1	2	1	1	1		
1	1	0	790322	152048	9.1	257.8	862	17.3	259.1	25.6	324.8	81405		
4	0	9	9	4	4	4	1	1	2	2	2	2		
1	1	0	790322	152052	9.3	257.8	862	17.4	259.0	25.8	324.7	813		
48	3	61	2	9	4	3	1	1	2	2	2	2		
1	1	0	790322	152056	9.6	257.7	862	17.6	259.0	25.9	324.6	8		
1331	3	51	11	3	6	5	4	1	1	3	2			
1	2	1	1	1	0	790322	152100	9.8	257.7	862	17.7	258.9	26.1	324.5
81314	3	5	9	9	5	4	3	2	1	3	2			
2	1	1	2	1	0	790322	152104	10.0	257.6	862	17.9	258.8	26.2	324.4
81256	4	31	31	0	7	4	4	1	1	2	2			
1	1	1	1	1	0	790322	152108	10.3	257.5	862	18.0	258.8	26.4	324
.3	81239	3	8	8	8	7	4	5	1	1	2	2		
1	1	1	1	1	0	790322	152112	10.5	257.5	862	18.2	258.7	26.5	3
24.2	81222	3	51	31	1	6	4	3	1	1	4			
2	1	1	2	1	0	790322	152116	10.7	257.4	862	18.3	258.7	26.7	
324.1	81205	3	91	1	8	4	3	5	1	1	1			
2	1	2	1	2	1	0	790322	152120	11.0	257.4	862	18.5	258.6	26
.9	324.1	81148	3	91	3	9	8	3	4	1	1	2		
1	2	1	1	1	1	0	790322	152124	11.2	257.3	862	18.7	258.5	
27.0	324.0	81131	4	21	51	0	5	4	6	1	1	1		
1	2	1	2	2	1	0								

TAPE NO.	1	FILE NO.	1									
RECORD	2	LENGTH	5000									
790322	152128	11.4	257.3	862	18.8	258.5	27.2	323.9	81114	3	81	11
0	6	4	4	1	1	2	1	1	3	1	1	1

37	245	435	411	42	11	5	31	5	2	2	1			
1	0	790401	055900	80.3	328.8	823	80.7	326.0	82.5	101.2	80405	25	918	
132	844	338	220	54	31	4	51	9	6	2	1			
1	1	0	790401	055904	80.4	327.6	823	80.8	324.7	82.7	101.3	80427	9	87
811	721	152	4105	672	216	29	99	43	11	0	3			
4	2	0	790401	055908	80.5	326.3	823	80.9	323.4	82.9	101.4	80507	9	57
9	512	713	22	41	5	8	8	4	3	1	1			
1	1	0	790401	055912	80.5	324.8	823	80.9	321.9	83.1	101.1	80401	8	
77	211	821	823	225	42	0	3	9	4	2	1	1		
1	1	0	790401	055916	80.5	323.4	823	80.9	320.4	83.3	100.8	80256	1	
82	12	81	91	3	9	3	2	8	4	1	2			
1	1	0	790401	055920	80.6	321.9	823	80.9	318.9	83.6	100.5	80147	11	
512	613	229	9106	641	6122	356	5292	834	34	1	6			
3	2	1	0	790401	055924	80.6	320.4	823	80.9	317.5	83.8	100.2	80036	7
714	64	78	614	517	913	44	36	12	3	9	5			
2	1	0	790401	055928	80.6	318.9	823	80.9	316.0	84.0	99.9	75928		
38	879	22	64	13	33	1	81	23	21	2	4	1		
2	1	0	790401	055932	80.6	317.4	823	80.9	314.5	84.2	99.6	75817		
10	729	93	72	82	61	5	6	2	9	5	2			
1	1	0	790401	055936	80.7	315.9	823	80.9	313.0	84.5	99.3	75658		
16	617	118	413	521	329	11	8	41	9	8	2			
1	1	0	790401	055940	80.7	314.5	823	80.9	311.6	84.7	98.9	75540		
0	2	3	3	5	3	3	2	1	3	1	1			
1	1	0	790401	055944	80.7	313.0	823	80.9	310.1	84.9	98.6	754		
23	0	1	2	2	2	2	2	1	1	1	1			
1	1	0	790401	055948	80.7	311.5	821	80.9	308.6	85.1	98.8	7		
5510	0	1	1	1	1	1	1	1	1	1	1			
1	1	0	790401	055952	80.7	310.0	821	80.9	307.2	85.3	99.0			
75611	0	7	5	2	3	3	1	1	1	1	1			
1	1	0	790401	055956	80.8	308.5	821	80.9	305.7	85.6	99.2			
75714	33	92	4	8	6	2	1	1	1	1	1			
1	1	0	790401	060004	80.8	305.6	821	81.0	302.8	86.0	99			
.2	75725	0	2	4	2	1	2	1	1	1	1			
1	1	0	790401	060008	80.8	304.1	821	80.9	301.4	86.2				
98.9	75607	0	3	2	3	2	1	1	1	1				
1	1	0	790401	060012	80.7	302.7	821	80.9	300.1	86.4				
97.6	75058	0	1	1	1	2	1	1	1	1				
1	1	0	790401	060016	80.7	301.3	821	80.8	298.8	86				
.7	97.0	74838	4	2	6	3	2	1	1	1				
1	1	0	790401	060020	80.6	299.9	821	80.7	297.4					
86.9	96.3	74555	0	5	2	2	2	1	1	1				
1	1	0												

TAPE NO.	1	FILE NO.	1											
RECORD	701	LENGTH	1800											
790401	060024	80.6	298.5	821	80.6	296.1	87.1	95.4	74227	0	2	2		
3	2	3	1	1	1	1	1	1	1	1	1	1		
0	790401	060028	80.5	297.1	821	80.6	294.8	87.4	94.4	73816	0	3	1	
3	2	2	1	1	1	1	1	1	1	1	1	1		
1	0	790401	060032	80.4	295.7	821	80.5	293.5	87.6	93.2	73334	0	2	1
2	2	1	1	1	1	1	1	1	1	1	1	1		
1	0	790401	060036	80.4	294.4	821	80.4	292.1	87.8	91.7	72755	0	2	1
2	2	2	1	1	1	1	1	1	1	1	1	1		
1	0	790401	060040	80.3	293.0	821	80.3	290.8	88.0	90.1	72122	0	2	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	0	790401	060044	80.2	291.6	821	80.3	289.5	88.3	88.1	71329	0	2	
4	3	2	1	1	1	1	1	1	1	1	1	1	1	
1	1	0	790401	060048	80.2	290.2	821	80.2	288.2	88.5	85.6	70321	0	2
3	1	3	1	1	1	1	1	1	1	1	1	1	1	
1	1	0	790401	060052	80.1	288.8	821	80.1	286.9	88.7	82.6	65136	2	3
6	5	2	2	1	1	1	1	1	1	1	1	1	1	
1	1	0	790401	060056	80.0	287.4	821	80.1	285.6	89.0	79.2	63814	9	
52	71	9	7	3	1	1	1	1	1	1	1	1	1	
1	1	0												

2	0	790322	152136	11.9	257.2	862	19.1	258.3	27.5	323.7	81040	4	21	0	
1	0	790322	152140	12.1	257.1	862	19.3	258.3	27.7	323.6	81022	3	41	1	
1	0	790322	152144	12.4	257.0	862	19.5	258.2	27.8	323.5	81005	4	11		
21	1	0	790322	152148	12.6	257.0	862	19.6	258.1	28.0	323.4	80948	4	2	
7	1	0	790322	152152	12.8	256.9	862	19.8	258.1	28.2	323.3	80931	3	41	
2	1	0	790322	152156	13.1	256.9	862	20.0	258.0	28.3	323.2	80914	4	31	
0	1	0	790322	152200	13.3	256.8	862	20.1	258.0	28.5	323.1	80856	4		
31	1	0	790322	152204	13.5	256.8	862	20.3	257.9	28.7	323.1	80838	4		
61	1	0	790322	152208	13.8	256.7	862	20.5	257.8	28.8	323.0	80820	3		
2	9	1	0	790322	152212	14.0	256.7	862	20.6	257.8	29.0	322.9	80802	4	
1	1	0	790322	152216	14.2	256.6	862	20.8	257.7	29.2	322.8	80744	1		
4	61	2	0	790322	152220	14.5	256.5	862	21.0	257.6	29.4	322.7	80725		
3	91	0	0	790322	152224	14.7	256.5	862	21.1	257.6	29.5	322.6	80707		
1	3	61	1	0	790322	152228	14.9	256.4	862	21.3	257.5	29.7	322.5	80648	
1	3	4	91	1	0	790322	152232	15.2	256.4	862	21.5	257.5	29.9	322.4	806
30	3	81	2	9	5	2	5	1	1	1	1	1	1		
0611	2	1	1	2	0	790322	152236	15.4	256.3	862	21.7	257.4	30.1	322.3	8
1	80552	3	91	11	0	790322	152240	15.6	256.3	862	21.8	257.3	30.2	322.2	
2	1	1	1	1	0	790322	152244	15.9	256.2	860	22.0	257.3	30.4	322.1	
80533	4	31	1	0	4	3	4	1	1	2	2	2			
1	1	2	2	1	0	790322	152248	16.1	256.1	860	22.2	257.2	30.6	322	
.0	80515	3	61	0	9	5	4	3	1	1	2	1			
2	2	1	1	2	1	0	790322	152252	16.3	256.1	860	22.4	257.1	30.8	3
21.9	80456	4	11	11	2	5	4	4	1	1	1	1			
2	1	1	1	1	1	0	790322	152256	16.6	256.0	860	22.5	257.1	31.0	
321.8	80437	3	31	2	8	6	6	3	1	1	2	31			
2	2	1	1	1	1	0	790322	152300	16.8	256.0	860	22.7	257.0	31	
.1	321.7	80418	4	11	1	1	5	3	4	1	1	1			
2	2	1	2	1	1	0	790322	152304	17.0	255.9	860	22.9	257.0		
31.3	321.6	80359	3	4	9	9	3	3	5	1	1	1			
1	2	1	1	1	1	0									

TAPE NO.	1	FILE NO.	1											
RECORD	3	LENGTH	5000											
790322	152308	17.3	255.9	860	23.1	256.9	31.5	321.5	80340	3	71	11		
0	7	2	3	1	1	1	1	1	1	1	1	1		
0	790322	152312	17.5	255.8	860	23.3	256.8	31.7	321.4	80320	3	8	8	
5	5	4	5	2	1	2	2	2	2	1	2	1		
1	0	790322	152316	17.7	255.7	860	23.4	256.8	31.9	321.3	80301	3	61	1
8	3	3	3	1	1	2	1	1	1	1	1	1		
1	0	790322	152320	18.0	255.7	860	23.6	256.7	32.0	321.2	80241	3	41	31
0	5	4	5	1	1	1	2	1	2	1	2	1	1	
1	0	790322	152324	18.2	255.6	860	23.8	256.6	32.2	321.1	80221	3	71	
0	9	5	4	3	1	1	1	2	2	2	1	1	1	
1	0	790322	152328	18.4	255.6	860	24.0	256.6	32.4	321.0	80202	4	7	
9	8	7	4	4	1	1	2	1	1	2	1	1		
1	1	0	790322	152332	18.6	255.5	860	24.2	256.5	32.6	320.9	80141	3	71
21	0	6	4	3	1	1	2	2	1	1	1	1		

TAPE NO.	1	FILE NO.	1												
RECORD	699	LENGTH	5000												
790401	055700	76.3	359.2	827	77.2	358.0	75.8	102.7	80823	20	845	2161			
77	663	27	32	61	12	52	31	52	1	61	2	2			
0	790401	055704	76.5	358.6	827	77.4	357.3	76.1	102.8	80836	13	421	436		
238	239	218	62	7	41	8	5	3	2	1	2				
1	0	790401	055708	76.7	357.9	827	77.5	356.6	76.3	102.8	80835	81	328	241	
451	48	625	73	0	41	9	5	4	4	5	5				
3	0	790401	055712	76.8	357.1	825	77.7	355.7	76.5	102.6	80751	96	797	491	
7108	4214	484	913	71	915	52	91	62	3	5	6				
2	0	790401	055716	77.0	356.2	825	77.8	354.7	76.7	102.4	80710	24	627	3	
38	143	837	216	3	1	74	53	11	81	11	2	6			
1	0	790401	055720	77.1	355.3	825	77.9	353.8	77.0	102.2	80637	23	740		
578	455	647	219	52	5	84	93	63	84	2	91				
1	2	0	790401	055724	77.3	354.5	825	78.1	352.9	77.2	102.2	80629	42	443	
6127	1235	2189	761	64	8	64	3	13	42	41	0				
7	1	0	790401	055728	77.4	353.6	825	78.2	352.0	77.4	102.1	80623	93	669	
158	667	854	720	81	6	62	51	31	1	2	7				
5	1	0	790401	055732	77.6	352.7	825	78.4	351.0	77.6	102.1	80618	19	1	
33	937	639	630	18	9	7	2	81	2	8	5	3			
1	1	0	790401	055736	77.7	351.8	825	78.5	350.1	77.8	102.1	80614	30		
939	887	4113	877	827	22	2	62	82	21	91	81				
2	8	1	0	790401	055740	77.9	351.0	825	78.6	349.2	78.1	102.0	80611	28	
1145	535	426	216	85	6	8	61	21	1	8	7				
3	2	1	0	790401	055744	78.1	350.1	825	78.8	348.2	78.3	102.0	80611	43	
27	58	375	983	821	41	5	2	5	4	2	2				
2	1	1	0	790401	055748	78.2	349.2	825	78.9	347.3	78.5	102.0	80616		
3	57	78	77	84	41	2	2	2	6	4	3	2			
2	1	1	0	790401	055752	78.4	348.4	825	79.1	346.4	78.7	102.0	80625		
4	97	711	18	65	41	8	4	3	7	5	3				
3	2	1	1	0	790401	055756	78.5	347.5	825	79.2	345.5	78.9	102.1	80638	
72	879	298	688	6159	1167	836	51	4	71	1	7				
6	5	2	1	0	790401	055800	78.7	346.6	825	79.3	344.5	79.1	102.1	80658	
59	135	926	318	14	725	92	5	4	8	6	4				
2	1	1	1	0	790401	055804	78.8	345.7	825	79.5	343.6	79.4	102.3	807	
28	21	357	759	760	519	94	5	4	2	8	6	3			
2	1	1	1	0	790401	055808	79.0	344.8	825	79.6	342.6	79.6	102.3	8	
0741	32	717	416	114	89	24	0	6	2	7	7				
5	2	1	1	1	0	790401	055812	79.1	343.5	825	79.7	341.3	79.8	102.1	
80655	41	656	34	451	116	23	6	4	21	0	6				
6	3	2	1	1	0	790401	055816	79.2	342.3	825	79.8	340.0	80.0	101.9	
80613	16	921	138	458	8128	615	71	1	71	7	9				
9	4	2	1	1	0	790401	055820	79.3	341.1	825	79.9	338.7	80.3	101	
.6	80506	13	614	113	313	48	52	3	5	1	4	2			
2	2	1	1	1	0	790401	055824	79.4	339.9	825	80.0	337.4	80.5	1	
01.3	80401	7	99	913	722	34	67	4	3	2	5				
2	2	1	1	1	1	0	790401	055828	79.5	338.6	825	80.0	336.2	80.7	
101.1	80323	8	15	826	138	925	53	6	6	3	7				
4	3	2	1	1	1	0	790401	055832	79.6	337.4	823	80.1	334.9	81	
.0	101.0	80254	45	323	549	656	567	5110	287	69	4152	33			
0	8	4	3	1	1	0	790401	055836	79.7	336.2	823	80.2	333.6		
81.2	101.0	80304	28	24	559	8101	6149	312	7351	413	332	43			
41	2	5	4	5	1	0									

TAPE NO.	1	FILE NO.	1												
RECORD	700	LENGTH	5000												
790401	055840	79.8	335.0	823	80.3	332.3	81.4	101.1	80321	31	237	743			
68	4152	300	5409	117	132	23	11	0	9	7	6	2			
0	790401	055844	79.9	333.7	823	80.4	331.1	81.6	101.2	80343	19	421	343		
441	123	27	11	7	41	7	7	4	2	1	1				
1	0	790401	055848	80.0	332.5	823	80.5	329.8	81.8	101.2	80407	17	719	511	
18	44	31	8	7	51	9	9	5	3	1	1				
1	0	790401	055852	80.1	331.3	823	80.5	328.5	82.0	101.2	80400	52	830	324	
114	6	72	31	0	52	61	2	6	4	1	1				