



#357

IMP-J

HOURLY AVERAGED MAGNETIC FIELD VECTORS

73-078A-01B



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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

HOURLY AVERAGE MAGNETIC FIELD VECTORS

73-078A-01B

SPHE-0036

This data set has been restored. Originally there were two tapes, one of which was created on an IBM 360 computer, 9 track, 1600 BPI, written in binary.

The other a VAX created, 6250 BPI, 9 track, with 36 files, written in ASCII, was converted to EBCDIC. This tape have not been assigned a DD number. A compilation of another 4 tapes, with a total of another 36 files, submitted for the OMNI tape updating, was added to this tape. All of these hourly data are available from the OMNI tape and the user should be encouraged to used the OMNI tape in place of these data. The DR and DS numbers along with their corresponding D number and time span are as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR-003425	DS-003425	DD-025184	1	01/02/74 - 05/20/75 (BIN)
DR-006196	DS-006196		72	04/09/86 - 07/01/94 (EBC)

An additional tape is added to this data set, the original is 6250 BPI, 9 track, written in ASCII. The DC is 3480 cartridge. The DD and DC number and time span is as follows:

DD#	DC#	FILES	TIME SPAN
DD-108653	DC-032784	19	01/01/95 - 07/31/96

TAPE FORMAT

This binary tape was created on an IBM/360 computer with the characteristics: RECFM=VBS, LRECL=72, BLKSIZE=1444, DEN=3. The tape is unlabelled. The data words of each record are as follows:

1. I*4 Year (74,75)
2. I*4 Day (Jan 1=Day 0)
3. I*4 Hour (0,1,...23)
4. I*4 Spacecraft (43=IMPI,50=IMP J)
5. I*4 Number of fine time scale points in hour
6. R*4 Averaged field magnitude $\frac{1}{N} \sum B_i$
7. R*4 Magnitude of average vector $(\overline{B_x^2} + \overline{B_y^2} + \overline{B_z^2})^{1/2}$
8. R*4 Field latitude angle Θ
9. R*4 Field longitude angle Φ
10. R*4 Average field X component
11. R*4 Average field Y component
12. R*4 Average field Z component
13. R*4 Standard deviation for word 6
14. R*4 $[\sigma_{B_x^2} + \sigma_{B_y^2} + \sigma_{B_z^2}]^{1/2}$
15. R*4 Standard deviation for word 10
16. R*4 Standard deviation for word 11
17. R*4 Standard deviation for word 12

The units of field magnitudes, components, and standard deviations are gammas, and of the angles are degrees. The coordinate system for components and angles is solar ecliptic.

IMP EYE H OR J HOURLY AVERAGE CARDS
PHASE II DATA DISPLAYS

Nomenclature used:

Note: Hourly averages are based on 15.36 sec averages and time designation refers to start of hourly average (see item 8).

Order
of Card

Item Format Symbol

Definition

Order of Card	Item Format	Symbol	Definition
1	I2	ORB	Orbit #
2	F5.1	R	Position of S/C in $R_E = 6,378$ km in Earth Centered coordinates (see item #13 below), where $R = \sqrt{X^2 + Y^2 + Z^2}$
3	F5.1	X	
4	F5.1	Y	
5	F5.1	Z	
6	I2	YR	Year of data
7	I3	DY	Decimal day of data (January 1 = 0)
8	I2	HR	Hour of data, i.e., at <u>start</u> of average.
9	F5.1	F1	Field magnitude, defined as $= \sum_i^N F_i / N$ in γ 's (see item 12)
10	F5.0	θ	Field inclination angle $\theta = \sin^{-1} (B_z / F)$ (F is defined in item 19) - in degrees.
11	F5.0	ϕ	Field azimuthal angle $\phi = \tan^{-1} (B_y / B_x)$ - in degrees.
12	I4	N	Number of 15.36 sec averages in the hourly average.
13	A2	Coord.	Coordinates: SE = Solar Ecliptic, SM = Solar Magnetospheric. Applies to both the field data and S/C position
14	F4.0	Geo. Lat.	Earth centered latitude of Sun's position in geomag. coords (deg.)
15	F5.1	σ_F	RMS of F1 (see item #9)
16	F5.1	σ_x	RMS of B_x RMS of B_y RMS of B_z All in γ 's
17	F5.1	σ_y	
18	F5.1	σ_z	
19	F5.1	F	Field magnitude, defined as $= \sqrt{\langle B_x \rangle^2 + \langle B_y \rangle^2 + \langle B_z \rangle^2}$
20	A1	S/C	I or H or J

FATAR DETAIL REPORT

BLOCK NUMBER LNTH/ DISPL MESSAGE/ BLOCK TYPE 1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
 (COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

4	80	PRINT REQUESTED	cy 32.2 -1.6-26.9-17.794 5916	5.9	36.	120.	235se	4.	2.3	1.5	1.1	1.4	5.3j
5	80	PRINT REQUESTED	cy 32.3 -0.8-26.9-17.894 5917	5.7	-5.	151.	235se	4.	1.7	0.6	1.1	1.1	5.4j
***** END OF FILE			69	-- FILE CONTAINED		511 BLOCKS							
***** START FILE			70										
1	80	PRINT REQUESTED	cy 36.2 8.4 29.4 19.594 91 0	5.6	17.	116.	2se	-2.	0.2	0.1	0.1	0.1	5.6j
2	80	PRINT REQUESTED	cy 36.2 8.4 29.4 19.594 91 1	5.5	3.	125.	235se	-2.	2.4	0.9	1.0	2.0	5.0j
3	80	PRINT REQUESTED	cy 36.2 7.7 29.5 19.494 91 2	5.5	14.	149.	231se	-5.	2.7	1.2	1.3	2.0	4.8j
4	80	PRINT REQUESTED	cy 36.1 7.0 29.7 19.394 91 3	5.7	-10.	119.	222se	-6.	1.7	1.3	0.8	0.8	5.4j
5	80	PRINT REQUESTED	cy 36.1 6.3 29.9 19.194 91 4	5.9	-13.	133.	209se	-7.	1.6	1.2	0.9	0.7	5.6j
***** END OF FILE			70	-- FILE CONTAINED		511 BLOCKS							
***** START FILE			71										
1	80	PRINT REQUESTED	cn 31.8-14.7-23.5-15.69412112	22.3	-80.	25.	2se	22.	0.8	0.1	0.7	0.5	21.3j
2	80	PRINT REQUESTED	cn 31.8-14.7-23.5-15.69412113	19.8	-74.	14.	226se	22.	11.7	4.5	5.1	9.5	16.2j
3	80	PRINT REQUESTED	cn 31.9-14.1-24.0-15.49412114	21.2	-52.	21.	233se	24.	12.0	5.5	8.1	6.9	17.7j
4	80	PRINT REQUESTED	cn 31.9-13.6-24.6-15.29412115	17.7	-60.	14.	227se	26.	13.5	3.8	8.3	10.0	13.9j
5	80	PRINT REQUESTED	cn 32.0-12.9-25.1-15.09412116	14.3	10.	330.	222se	27.	6.7	2.1	2.7	5.7	12.5j
***** END OF FILE			71	-- FILE CONTAINED		556 BLOCKS							
***** START FILE			72										
1	80	PRINT REQUESTED	cy 37.7 30.3 11.6 19.29415123	5.5	-8.	24.	6se	17.	1.1	0.4	0.5	0.9	5.3j
2	80	PRINT REQUESTED	cy 37.7 30.3 11.6 19.294152 0	5.1	-1.	4.	227se	17.	3.0	1.2	1.8	2.0	4.2j
3	80	PRINT REQUESTED	cy 37.6 30.0 12.2 19.094152 1	5.0	9.	339.	230se	15.	2.9	0.8	1.5	2.4	3.9j
4	80	PRINT REQUESTED	cy 37.5 29.8 12.8 18.894152 2	5.1	3.	329.	235se	13.	2.5	0.9	1.1	2.0	4.4j
5	80	PRINT REQUESTED	cy 37.4 29.5 13.4 18.694152 3	5.0	-38.	310.	204se	11.	2.7	1.1	1.3	2.0	4.2j
***** END OF FILE			72	-- FILE CONTAINED		514 BLOCKS							
***** START FILE			73										
***** END OF FILE			73	-- FILE CONTAINED		0 BLOCKS							

Year 97 day 152

FATAR DETAIL REPORT

Year 86 day 100

BLOCK LNTH/ MESSAGE/
NUMBER DISPL BLOCK TYPE

1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...80
(COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA)

+00880	75	36.2	31.6	-12.2	12.7	8610020	6.3	22.	249.	233SE	15.	0.1	0.9	0.2	0.5	6.2J
+00960	75	36.3	32.0	-11.7	12.6	8610021	6.3	19.	258.	232SE	12.	0.4	1.1	0.5	1.0	6.1J
+01040	75	36.3	32.3	-11.1	12.4	8610022	6.6	15.	262.	235SE	9.	0.2	1.4	0.4	0.5	6.4J
+01120	75	36.4	32.7	-10.5	12.2	8610023	7.1	15.	243.	235SE	6.	0.2	1.1	0.6	0.8	6.9J
+01200	75	36.4	33.0	-9.9	12.0	86101 0	6.9	6.	257.	233SE	3.	0.3	0.6	0.3	0.5	6.8J
+01280	75	36.5	33.3	-9.3	11.8	86101 1	7.1	10.	239.	235SE	0.	0.2	0.4	0.2	0.2	7.0J
+01360	75	36.5	33.5	-8.9	11.6	86101 2	7.1	9.	240.	63SE	-1.	0.1	0.2	0.1	0.2	7.1J
+01440	75	36.6	33.9	-7.8	11.2	86101 3	6.3	1.	245.	17SE	-3.	0.2	3.2	1.9	0.2	5.2J
+01520	75	36.6	34.0	-7.5	11.1	86101 4	6.2	-9.	228.	168SE	-3.	0.2	1.0	1.0	1.1	6.0J
+01600	75	36.7	34.4	-6.7	10.8	86101 5	6.7	-30.	225.	105SE	-3.	0.2	1.4	0.8	0.8	6.5J
+01680	75	36.7	34.6	-6.2	10.7	86101 6	6.8	0.	232.	234SE	-2.	0.6	0.7	1.6	3.1	5.8J
+01760	75	36.7	34.8	-5.6	10.4	86101 7	8.0	-5.	237.	220SE	-0.	0.2	1.7	0.6	1.7	7.5J
+01840	75	36.8	35.0	-5.0	10.2	86101 8	8.0	-4.	246.	234SE	2.	1.1	1.1	2.7	4.6	6.0J
+01920	75	36.8	35.2	-4.4	9.9	86101 9	9.4	15.	251.	233SE	5.	0.2	0.6	0.2	1.1	9.3J

3 3200 PRINT REQUESTED

+00080	75	37.5	36.2	9.2	3.8	86102 7	5.2	26.	233.	226SE	0.	0.5	0.7	1.3	2.3	4.5J
+00160	75	37.5	36.0	9.9	3.5	86102 8	6.5	22.	235.	235SE	3.	0.1	0.4	0.4	0.5	6.4J
+00240	75	37.6	35.9	10.5	3.2	86102 9	6.6	4.	229.	229SE	5.	0.2	0.3	0.3	0.5	6.6J
+00320	75	37.6	35.8	11.0	2.9	8610210	6.7	-6.	225.	234SE	8.	0.2	0.4	0.2	0.6	6.6J
+00400	75	37.6	35.7	11.6	2.6	8610211	5.7	-22.	219.	235SE	12.	0.5	0.7	0.6	0.9	5.6J
+00480	75	37.6	35.5	12.3	2.2	8610212	5.1	-16.	224.	163SE	15.	0.2	0.3	0.5	0.8	5.0J
+00560	75	37.6	35.3	12.8	1.9	8610213	4.9	-19.	230.	235SE	17.	0.1	0.2	0.1	0.3	4.9J
+00640	75	37.6	35.1	13.4	1.6	8610214	4.1	-20.	227.	226SE	19.	0.7	0.4	0.6	0.6	4.0J
+00720	75	37.7	35.0	13.9	1.3	8610215	3.5	7.	216.	231SE	20.	0.4	0.2	0.7	0.9	3.3J
+00800	75	37.7	34.7	14.5	1.0	8610216	3.9	-5.	222.	221SE	21.	0.1	0.2	0.2	0.6	3.9J
+00880	75	37.7	34.5	15.1	0.7	8610217	3.9	3.	219.	235SE	21.	0.1	0.1	0.1	0.2	3.9J
+00960	75	37.7	34.3	15.6	0.4	8610218	4.1	2.	222.	228SE	19.	0.1	0.5	0.4	0.4	4.0J
+01040	75	37.7	34.1	16.2	0.1	8610219	4.5	-2.	228.	231SE	18.	0.2	0.6	0.7	1.2	4.2J
+01120	75	37.7	33.8	16.7	-0.2	8610220	4.8	-3.	223.	225SE	15.	0.2	0.4	0.2	0.9	4.7J
+01200	75	37.7	33.5	17.3	-0.6	8610221	5.0	-9.	219.	217SE	12.	0.3	0.3	0.3	0.3	5.0J
+01280	75	37.7	33.3	17.8	-0.9	8610222	5.3	-6.	214.	235SE	9.	0.1	0.1	0.2	0.3	5.2J
+01360	75	37.8	33.0	18.3	-1.2	8610223	5.1	-8.	218.	224SE	6.	0.2	0.4	0.4	0.3	5.0J
+01440	75	37.8	32.7	18.9	-1.5	86103 0	5.2	-5.	219.	212SE	4.	0.2	0.3	0.6	0.3	5.1J
+01520	75	37.8	29.8	22.9	-4.0	86103 8	5.3	-7.	243.	117SE	4.	0.2	0.3	0.3	0.3	5.2J
+01600	75	37.8	29.5	23.3	-4.3	86103 9	5.3	-3.	253.	235SE	6.	0.1	0.5	0.1	0.4	5.3J
+01680	75	37.8	29.1	23.7	-4.6	8610310	5.1	-7.	257.	228SE	9.	0.2	0.6	0.3	0.2	5.1J
+01760	75	37.8	28.7	24.2	-4.9	8610311	5.0	-2.	252.	234SE	12.	0.1	0.4	0.2	0.3	4.9J
+01840	75	37.8	28.3	24.6	-5.2	8610312	5.0	-3.	249.	233SE	15.	0.1	0.2	0.1	0.2	4.9J
+01920	75	37.8	27.8	25.0	-5.5	8610313	4.6	-3.	254.	230SE	17.	0.1	0.3	0.1	0.1	4.6J
+01920	75	37.8	27.5	25.3	-5.7	8610314	4.6	-18.	236.	83SE	19.	0.1	0.2	0.4	0.5	4.5J

4 3200 PRINT REQUESTED

+00080	75	37.5	13.6	32.8	-12.1	8610415	6.2	49.	87.	195SE	21.	1.3	3.0	2.0	4.2	3.0J
+00160	75	37.5	13.0	33.0	-12.3	8610416	8.2	42.	5.	184SE	22.	1.3	1.1	4.0	2.0	6.9J
+00240	75	37.5	12.3	33.1	-12.5	8610417	9.2	51.	26.	221SE	21.	0.5	1.8	2.0	0.9	8.8J
+00320	75	37.4	11.7	33.2	-12.7	8610418	8.6	31.	347.	217SE	20.	0.9	1.4	3.7	3.5	6.9J
+00400	75	37.4	11.0	33.4	-12.9	8610419	9.4	37.	73.	235SE	18.	0.7	1.6	1.0	1.6	9.1J
+00480	75	37.4	10.4	33.5	-13.1	8610420	9.1	24.	83.	230SE	16.	0.7	1.5	1.3	2.9	8.4J
+00560	75	37.4	9.8	33.6	-13.2	8610421	8.1	41.	62.	154SE	14.	1.0	2.1	1.8	2.4	7.3J
+00640	75	37.3	8.9	33.7	-13.4	8610422	7.5	-41.	189.	120SE	9.	1.6	1.8	1.1	1.1	7.3J
+00720	75	37.3	8.4	33.7	-13.6	8610423	7.7	-34.	177.	234SE	7.	0.7	1.5	1.4	0.7	7.4J
+00800	75	37.3	7.8	33.8	-13.7	86105 0	6.9	-23.	160.	235SE	4.	0.2	0.4	0.9	1.1	6.8J
+00800	75	37.3	7.1	33.8	-13.9	86105 1	6.9	-20.	156.	235SE	2.	0.2	0.3	0.6	0.9	6.8J

From: NCFMRB::OPERATOR 19-DEC-1996 07:40:35.82
To: NCF::ALOPEZ
CC:
Subj: dd108653 ascii listing

ASCII LIST OF DD108653

FILE 1 RECORD 1 80 BYTES

cy 39.3 3.8 35.6 16.295 1 1 2.8 -20. 112. 233se-29. 1.4 0.3 0.6 1.2 2.5j

ASCII LIST OF DD108653

FILE 1 RECORD 584 80 BYTES

cn 31.1-18.4-21.6-12.795 3121 13.9 48. 249. 116se-12. 5.4 4.0 1.8 3.2 12.7j

ASCII LIST OF DD108653

FILE 2 RECORD 1 80 BYTES

cn 31.0-16.2-22.6-13.695 32 0 7.0 33. 287. 21se-21. 6.0 3.0 3.8 3.5 4.9j

ASCII LIST OF DD108653

FILE 2 RECORD 499 80 BYTES

cy 34.2 31.6-13.0 -0.295 5923 7.8 27. 330. 232se -8. 5.0 3.9 0.9 3.0 6.0j

ASCII LIST OF DD108653

FILE 3 RECORD 1 80 BYTES

cy 34.2 31.6-13.0 -0.295 5922 8.1 46. 271. 2se -8. 9.4 9.3 0.8 0.6 4.5j

ASCII LIST OF DD108653

FILE 3 RECORD 568 80 BYTES

cn 34.9-13.1 31.9 5.095 9022 7.1 -48. 125. 166se 6. 6.7 4.3 2.8 4.4 3.1j

ASCII LIST OF DD108653

FILE 4 RECORD 1 80 BYTES

cn 34.6-14.1 31.3 4.195 9023 7.2 -11. 140. 3se 0. 0.4 0.1 0.2 0.3 7.1j

ASCII LIST OF DD108653

FILE 4 RECORD 461 80 BYTES

cy 37.4 16.2-32.3 9.49512016 4.6 47. 145. 232se 26. 3.3 1.9 2.5 1.0 3.2j

ASCII LIST OF DD108653

FILE 5 RECORD 1 80 BYTES

cy 38.5 21.0-29.6 12.995121 1 4.9 5. 125. 23se 6. 0.4 0.2 0.2 0.3 4.8j

ASCII LIST OF DD108653

FILE 5 RECORD 529 80 BYTES

cy 33.7 8.6 31.9 -6.29515123 5.7 -25. 312. 235se 20. 3.3 1.1 2.6 1.7 4.6j

ASCII LIST OF DD108653

FILE 6 RECORD 1 80 BYTES

cy 33.7 8.6 31.9 -6.29515122 5.6 21. 325. 5se 20. 1.2 0.6 0.9 0.5 5.4j

ASCII LIST OF DD108653

FILE 6 RECORD 450 80 BYTES

cn 36.5-14.4-30.5 13.99518123 20.3 -38. 226. 235se 22. 7.0 3.7 3.7 4.6 20.1j

ASCII LIST OF DD108653

FILE 7 RECORD 1 80 BYTES

cn 36.5-14.2-30.6 14.09518123 17.2 -36. 226. 122se 20. 8.3 4.6 4.4 5.4 16.9j

ASCII LIST OF DD108653

FILE 7 RECORD 446 80 BYTES

cy 29.9 23.7 14.7-10.99521222 4.7 -26. 108. 215se 20. 4.0 1.8 2.2 2.8 3.3j

ASCII LIST OF DD108653

FILE 8 RECORD 1 80 BYTES

cy 29.7 22.4 15.6-11.59521223 6.6 3. 97. 8se 14. 0.3 0.2 0.2 0.2 6.6j

ASCII LIST OF DD108653

FILE 8 RECORD 577 80 BYTES

cn 40.2-22.7-24.2 22.69524323 9.6 -13. 46. 217se 7. 7.1 3.8 3.6 4.8 6.4j

ASCII LIST OF DD108653

FILE 9 RECORD 1 80 BYTES

cn 40.2-22.5-24.4 22.69524323 9.0 -17. 35. 107se 6. 4.9 2.4 2.7 3.3 7.6j

ASCII LIST OF DD108653

FILE 9 RECORD 581 80 BYTES

cy 32.2 26.2-13.8-12.79527317 4.5 3. 324. 235se 9. 1.6 0.6 0.7 1.3 4.1j

ASCII LIST OF DD108653

FILE 10 RECORD 1 80 BYTES

cy 30.6 25.6 1.6-16.89527412 3.7 9. 305. 101se 3. 1.3 0.6 1.0 0.6 3.4j

ASCII LIST OF DD108653

FILE 10 RECORD 514 80 BYTES

cn 41.5-34.2 1.0 23.59530423 12.1 2. 119. 229se-16. 7.2 5.3 4.6 1.8 9.7j

ASCII LIST OF DD108653

FILE 11 RECORD 1 80 BYTES

cn 41.5-34.2 1.0 23.59530422 11.1 0. 118. 12se-16. 2.4 0.9 1.8 1.2 10.9j

ASCII LIST OF DD108653

FILE 11 RECORD 519 80 BYTES

cy 28.6 18.8-14.2-16.39533423 2.5 1. 171. 234se-23. 1.6 1.4 0.7 0.5 1.8j

ASCII LIST OF DD108653

FILE 12 RECORD 1 80 BYTES

cy 28.6 18.8-14.2-16.39533422 2.4 -17. 40. 14se-23. 0.2 0.1 0.1 0.1 2.4j

ASCII LIST OF DD108653

FILE 12 RECORD 578 80 BYTES

cn 39.5-20.5 26.1 21.49536522 12.3 51. 272. 98se-21. 8.2 3.6 6.6 3.2 9.7j

ASCII LIST OF DD108653

FILE 13 RECORD 1 80 BYTES

cn 39.5-21.5 25.5 21.196 1 0 12.6 55. 254. 230se-27. 4.3 3.4 2.1 1.7 11.8j

ASCII LIST OF DD108653

FILE 13 RECORD 572 80 BYTES

cy 29.1 11.2-23.5-13.096 3121 4.2 11. 207. 150se-12. 1.2 0.5 0.5 0.9 4.1j

ASCII LIST OF DD108653

FILE 14 RECORD 1 80 BYTES

cy 29.2 13.8-22.8-11.896 32 0 4.2 17. 213. 96se-22. 0.9 0.5 0.6 0.4 4.1j

ASCII LIST OF DD108653

FILE 14 RECORD 624 80 BYTES

cy 41.0 19.5 27.5 23.396 6023 3.8 13. 316. 235se -8. 0.9 0.5 0.5 0.6 3.7j

ASCII LIST OF DD108653

FILE 15 RECORD 1 80 BYTES

cy 41.0 18.6 28.2 23.196 61 1 3.7 2. 308. 207se-14. 0.9 0.6 0.6 0.5 3.6j

ASCII LIST OF DD108653

FILE 15 RECORD 659 80 BYTES

cn 31.0-17.1-22.0-13.696 92 0 12.4 -22. 195. 118se 0. 7.5 6.1 2.0 4.0 10.2j

ASCII LIST OF DD108653

FILE 16 RECORD 1 80 BYTES

cn 31.0-17.1-22.0-13.696 9123 11.2 -20. 177. 13se 1. 3.8 3.2 1.6 1.2 10.3j

ASCII LIST OF DD108653

FILE 16 RECORD 642 80 BYTES

cy 39.1 32.3 -3.1 21.89612122 6.0 25. 346. 235se 16. 1.2 0.7 0.8 0.6 5.8j

ASCII LIST OF DD108653

FILE 17 RECORD 1 80 BYTES

cy 39.2 32.9 -0.5 21.396122 2 4.4 -44. 161. 4se 5. 4.1 3.5 2.2 0.1 2.5j

ASCII LIST OF DD108653

FILE 17 RECORD 637 80 BYTES

cn 28.7-23.3 8.9-14.39615223 17.1 -8. 169. 223se 20. 2.4 1.5 1.9 0.2 16.9j

ASCII LIST OF DD108653

FILE 18 RECORD 1 80 BYTES

cn 28.7-24.6 6.5-13.396153 2 16.9 -10. 116. 3se 12. 3.3 3.0 1.5 0.1 16.7j

ASCII LIST OF DD108653

FILE 18 RECORD 531 80 BYTES

cy 40.3 21.2-27.4 20.69618219 4.7 24. 340. 225se 33. 1.3 0.8 0.6 0.9 4.6j

ASCII LIST OF DD108653

FILE 19 RECORD 1 80 BYTES

cy 40.2 25.2-25.0 18.896183 2 4.1 -22. 304. 4se 12. 0.3 0.2 0.1 0.1 4.1j

ASCII LIST OF DD108653

FILE 19 RECORD 488 80 BYTES

cn 32.2-12.2 26.9-12.79621322 11.0 -26. 153. 235se 20. 8.5 3.6 4.3 6.4 7.0j