

372

IMP-I,H,J
SOLAR WIND DATA
71-019A-11C
72-073A-10A
73-078A-10A

IMP-H,J
2-MINUTE SOLAR WIND PLASMA DATA
72-073A-10C
73-078A-10F

IMP-I
2 MINUTE PLASMA
71-019A-11D

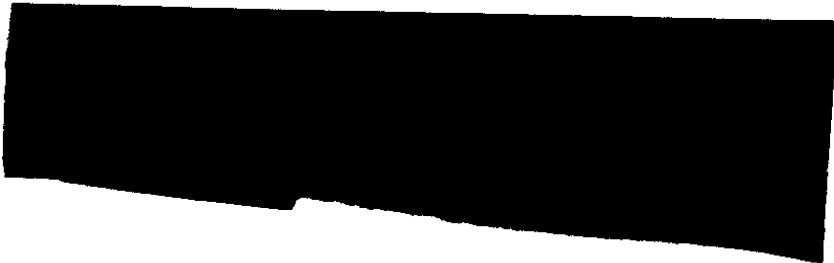


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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

IMP-H/J

2-MINUTE PLASMA

IMP-H (72-073A-10C)

SPMS-00203

IMP-J (73-078A-10F)

SPMS-00629

The tapes in these 2 datasets are 6250 bpi, ASCII, written in VAX-labelled format. Dataset 72-073A-10C (IMP-H) consists of one tape; dataset 73-078A-10F (IMP-J) consists of five tapes. Data records prior to April, 1986 contain 16 words. The rest contain 19 words. The data are written in unblocked, variable length records. Separate format statements for each set follow this sheet. The 'D' and 'C' numbers, time spans, VAX labels and number of data files follow:

72-073A-10C (IMP-H)

<u>D#</u>	<u>C#</u>	<u>VAX LABEL</u>	<u># FILES</u>	<u>TIME SPAN</u>
D-079736	C-027273	IMPH72	72	10/06/72 - 10/17/78

73-078A-10F (IMP-J)

<u>D#</u>	<u>C#</u>	<u>VAX LABEL</u>	<u># FILES</u>	<u>TIME SPAN</u>
D-079737	C-027274	IMPJ73	116	11/04/73 - 12/31/83
D-079738	C-027275	IMPJ84	60	01/01/84 - 12/24/88
D-086840	C-029407	89EPH	12	01/02/89 - 12/31/89
D-086832	C-029406	IMPEPH	24	01/02/90 - 12/31/91
D-101540	C-031126	M92IMP	12	01/04/92 - 12/29/92

FORMAT FOR IMPH/J 2 MINUTE PLASMA DATA
(Prior to April, 1986)

72-073A-10C
73-078A-10F

FILE ORGANIZATION: Sequential

RECORD FORMAT: Variable length, maximum 90 bytes

RECORD ATTRIBUTES: Fortran carriage control

<u>Word</u>	<u>Format</u>	<u>Name</u>	<u>Description</u>	<u>Units</u>
1	A4	BIRD ID	IMP6,IMP7,IMP8	
2	I6	IYYMMDD		
3	F8.1	SECONDS		
4	F8.1	UTIME	HHMMSS	
5	PE11.4	DENSITY	PROTON DENSITY	cm ⁻³
6	PE11.4	FLOW SPEED	PROTON FLOW SPEED	km/sec
7	PE11.4	FLOW AZIMUTH	PROTON FLOW AZIMUTH	deg
8	PE11.4	TPAR (MAX)	PROTON TEMP (MAX)	K
9	PE11.4	TPER (MIN)	PROTON TEMP (MIN)	K
10	PE11.4	PSIT	AZIMUTH ANGLE OF PRESSURE TENSOR SYMMETRY AXIS	deg
11	PE11.4	ALPHA/PROTON	FLUX RATIO	
12	PE11.4	FLOW SPEED AP	RELATIVE FLOW SPEED	km/sec
13	PE11.4	FLOW AZIMUTH AP	AZIMUTH ANGLE OF RELATIVE FLOW	deg
14	PE11.4	TRATIO	ALPHA TEMP/PROTON TEMP	
15	PE11.4	TEMP	ALPHA TEMP ANISOTROPY	
16	PE11.4	PSIT	AZIMUTH ANGLE OF ALPHA PARTICLE PRESSURE TENSOR SYMMETRY AXIS	deg

FORMAT:

2000 FORMAT(1X,A4,1X,I6,1X,2(F8.1,1X),5(1PE11.4,1X),/,
1 6(1PE11.4,1X),1PE11.4)

READ:

READ (2,2000) BIRD, IYYMMDD, SEC, UTIME, (PLASMA(I), I=5,16)

FORMAT FOR IMP J 2 MINUTE PLASMA DATA
(April, 1986 and After)

73-078A-10F

FILE ORGANIZATION: Sequential

RECORD FORMAT: Variable length, maximum 90 bytes

RECORD ATTRIBUTES: Fortran carriage control

<u>Word</u>	<u>Format</u>	<u>Name</u>	<u>Description</u>	<u>Units</u>
1	A4	BIRD ID	IMP6,IMP7,IMP8	
2	I6	IYYMMDD		
3	F8.1	SECONDS		
4	F8.1	UTIME	HHMMSS	
5	PE11.4	RADIUS	SPACECRAFT RADIAL DISTANCE	Re
6	PE11.4	SELAT	SPACECRAFT LATITUDE, SE	Deg
7	PE11.4	SELON	SPACECRAFT LONGITUDE, SE	Deg
8	PE11.4	DENSITY	PROTON DENSITY	cm ⁻³
9	PE11.4	FLOW SPEED	PROTON FLOW SPEED	km/sec
10	PE11.4	FLOW AZIMUTH	PROTON FLOW AZIMUTH	deg
11	PE11.4	TPAR (MAX)	PROTON TEMP (MAX)	K
12	PE11.4	TPER (MIN)	PROTON TEMP (MIN)	K
13	PE11.4	PSIT	AZIMUTH ANGLE OF PRESSURE TENSOR SYMMETRY AXIS	deg
14	PE11.4	ALPHA/PROTON	FLUX RATIO	
15	PE11.4	FLOW SPEED AP	RELATIVE FLOW SPEED	km/sec
16	PE11.4	FLOW AZIMUTH AP	AZIMUTH ANGLE OF RELATIVE FLOW	deg
17	PE11.4	TRATIO	ALPHA TEMP/PROTON TEMP	
18	PE11.4	TEMP	ALPHA TEMP ANISOTROPY	
19	PE11.4	PSIT	AZIMUTH ANGLE OF ALPHA PARTICLE PRESSURE TENSOR SYMMETRY AXIS	deg

FORMAT:

2000 FORMAT(1X,A4,1X,I6,1X,2(F8.1,1X),3(1PE11.4,1X),/,
1 2(1PE11.4,1X,1PE11.4,4(1PE11.4,1X)))

READ:

READ (2,2000)BIRD,IYYMMDD,SEC,UTIME,(PLASMA(I),I=5,19)

Directory MKA100:[]

IMP7_APR73.NSS;1	IMP7_APR74.NSS;1	IMP7_APR75.NSS;1	IMP7_APR76.NSS;
IMP7_APR77.NSS;1	IMP7_APR78.NSS;1	IMP7_AUG73.NSS;1	IMP7_AUG74.NSS;
IMP7_AUG75.NSS;1	IMP7_AUG76.NSS;1	IMP7_AUG77.NSS;1	IMP7_AUG78.NSS;
IMP7_DEC72.NSS;1	IMP7_DEC73.NSS;1	IMP7_DEC74.NSS;1	IMP7_DEC75.NSS;
IMP7_DEC76.NSS;1	IMP7_DEC77.NSS;1	IMP7_FEB73.NSS;1	IMP7_FEB74.NSS;
IMP7_FEB75.NSS;1	IMP7_FEB76.NSS;1	IMP7_FEB77.NSS;1	IMP7_FEB78.NSS;
IMP7_JAN73.NSS;1	IMP7_JAN74.NSS;1	IMP7_JAN75.NSS;1	IMP7_JAN76.NSS;
IMP7_JAN77.NSS;1	IMP7_JAN78.NSS;1	IMP7_JUL73.NSS;1	IMP7_JUL74.NSS;
IMP7_JUL75.NSS;1	IMP7_JUL76.NSS;1	IMP7_JUL77.NSS;1	IMP7_JUL78.NSS;
IMP7_JUN73.NSS;1	IMP7_JUN74.NSS;1	IMP7_JUN75.NSS;1	IMP7_JUN76.NSS;
IMP7_JUN77.NSS;1	IMP7_JUN78.NSS;1	IMP7_MAR73.NSS;1	IMP7_MAR74.NSS;
IMP7_MAR75.NSS;1	IMP7_MAR76.NSS;1	IMP7_MAR77.NSS;1	IMP7_MAR78.NSS;
IMP7_MAY73.NSS;1	IMP7_MAY74.NSS;1	IMP7_MAY75.NSS;1	IMP7_MAY76.NSS;
IMP7_MAY77.NSS;1	IMP7_MAY78.NSS;1	IMP7_NOV72.NSS;1	IMP7_NOV73.NSS;
IMP7_NOV74.NSS;1	IMP7_NOV75.NSS;1	IMP7_NOV76.NSS;1	IMP7_NOV77.NSS;
IMP7_OCT72.NSS;1	IMP7_OCT73.NSS;1	IMP7_OCT74.NSS;1	IMP7_OCT75.NSS;
IMP7_OCT76.NSS;1	IMP7_OCT77.NSS;1	IMP7_SEP73.NSS;1	IMP7_SEP74.NSS;
IMP7_SEP75.NSS;1	IMP7_SEP76.NSS;1	IMP7_SEP77.NSS;1	IMP7_SEP78.NSS;

Total of 72 files.

Directory of D-079737 (C-027274)

IMP8_APR74.NSS;1	IMP8_APR75.NSS;1	IMP8_APR76.NSS;1	IMP8_APR77.NSS;
IMP8_APR78.NSS;1	IMP8_APR79.NSS;1	IMP8_APR80.NSS;1	IMP8_APR81.NSS;
IMP8_APR82.NSS;1	IMP8_APR83.NSS;1	IMP8_AUG74.NSS;1	IMP8_AUG75.NSS;
IMP8_AUG76.NSS;1	IMP8_AUG77.NSS;1	IMP8_AUG78.NSS;1	IMP8_AUG79.NSS;
IMP8_AUG80.NSS;1	IMP8_AUG81.NSS;1	IMP8_AUG82.NSS;1	IMP8_AUG83.NSS;
IMP8_DEC73.NSS;1	IMP8_DEC74.NSS;1	IMP8_DEC76.NSS;1	IMP8_DEC77.NSS;
IMP8_DEC78.NSS;1	IMP8_DEC79.NSS;1	IMP8_DEC80.NSS;1	IMP8_DEC81.NSS;
IMP8_DEC83.NSS;1	IMP8_FEB74.NSS;1	IMP8_FEB75.NSS;1	IMP8_FEB76.NSS;
IMP8_FEB77.NSS;1	IMP8_FEB78.NSS;1	IMP8_FEB79.NSS;1	IMP8_FEB80.NSS;
IMP8_FEB81.NSS;1	IMP8_FEB82.NSS;1	IMP8_FEB83.NSS;1	IMP8_JAN74.NSS;
IMP8_JAN75.NSS;1	IMP8_JAN76.NSS;1	IMP8_JAN77.NSS;1	IMP8_JAN78.NSS;
IMP8_JAN79.NSS;1	IMP8_JAN81.NSS;1	IMP8_JAN82.NSS;1	IMP8_JUL74.NSS;
IMP8_JUL75.NSS;1	IMP8_JUL76.NSS;1	IMP8_JUL77.NSS;1	IMP8_JUL78.NSS;
IMP8_JUL79.NSS;1	IMP8_JUL80.NSS;1	IMP8_JUL81.NSS;1	IMP8_JUL82.NSS;
IMP8_JUL83.NSS;1	IMP8_JUN74.NSS;1	IMP8_JUN75.NSS;1	IMP8_JUN76.NSS;
IMP8_JUN77.NSS;1	IMP8_JUN78.NSS;1	IMP8_JUN79.NSS;1	IMP8_JUN80.NSS;
IMP8_JUN81.NSS;1	IMP8_JUN82.NSS;1	IMP8_JUN83.NSS;1	IMP8_MAR74.NSS;
IMP8_MAR75.NSS;1	IMP8_MAR76.NSS;1	IMP8_MAR77.NSS;1	IMP8_MAR78.NSS;
IMP8_MAR79.NSS;1	IMP8_MAR80.NSS;1	IMP8_MAR81.NSS;1	IMP8_MAR82.NSS;
IMP8_MAR83.NSS;1	IMP8_MAY74.NSS;1	IMP8_MAY75.NSS;1	IMP8_MAY76.NSS;
IMP8_MAY77.NSS;1	IMP8_MAY78.NSS;1	IMP8_MAY79.NSS;1	IMP8_MAY80.NSS;
IMP8_MAY81.NSS;1	IMP8_MAY82.NSS;1	IMP8_MAY83.NSS;1	IMP8_NOV73.NSS;
IMP8_NOV74.NSS;1	IMP8_NOV75.NSS;1	IMP8_NOV76.NSS;1	IMP8_NOV77.NSS;
IMP8_NOV78.NSS;1	IMP8_NOV79.NSS;1	IMP8_NOV80.NSS;1	IMP8_NOV81.NSS;
IMP8_NOV83.NSS;1	IMP8_OCT74.NSS;1	IMP8_OCT75.NSS;1	IMP8_OCT76.NSS;
IMP8_OCT77.NSS;1	IMP8_OCT78.NSS;1	IMP8_OCT79.NSS;1	IMP8_OCT80.NSS;
IMP8_OCT81.NSS;1	IMP8_OCT83.NSS;1	IMP8_SEP74.NSS;1	IMP8_SEP75.NSS;
IMP8_SEP76.NSS;1	IMP8_SEP77.NSS;1	IMP8_SEP78.NSS;1	IMP8_SEP79.NSS;
IMP8_SEP80.NSS;1	IMP8_SEP81.NSS;1	IMP8_SEP82.NSS;1	IMP8_SEP83.NSS;

Total of 116 files.

Directory D-079738 (C-027275)

IMP8_APR84.NSS;1	IMP8_APR85.NSS;1	IMP8_APR86.NSS;1	IMP8_APR87.NSS;
IMP8_APR88.NSS;1	IMP8_AUG84.NSS;1	IMP8_AUG85.NSS;1	IMP8_AUG86.NSS;
IMP8_AUG87.NSS;1	IMP8_AUG88.NSS;1	IMP8_DEC84.NSS;1	IMP8_DEC85.NSS;
IMP8_DEC86.NSS;1	IMP8_DEC87.NSS;1	IMP8_DEC88.NSS;1	IMP8_FEB84.NSS;
IMP8_FEB85.NSS;1	IMP8_FEB86.NSS;1	IMP8_FEB87.NSS;1	IMP8_FEB88.NSS;
IMP8_JAN84.NSS;1	IMP8_JAN85.NSS;1	IMP8_JAN86.NSS;1	IMP8_JAN87.NSS;
IMP8_JAN88.NSS;1	IMP8_JUL84.NSS;1	IMP8_JUL85.NSS;1	IMP8_JUL86.NSS;
IMP8_JUL87.NSS;1	IMP8_JUL88.NSS;1	IMP8_JUN84.NSS;1	IMP8_JUN85.NSS;
IMP8_JUN86.NSS;1	IMP8_JUN87.NSS;1	IMP8_JUN88.NSS;1	IMP8_MAR84.NSS;
IMP8_MAR85.NSS;1	IMP8_MAR86.NSS;1	IMP8_MAR87.NSS;1	IMP8_MAR88.NSS;
IMP8_MAY84.NSS;1	IMP8_MAY85.NSS;1	IMP8_MAY86.NSS;1	IMP8_MAY87.NSS;
IMP8_MAY88.NSS;1	IMP8_NOV84.NSS;1	IMP8_NOV85.NSS;1	IMP8_NOV86.NSS;
IMP8_NOV87.NSS;1	IMP8_NOV88.NSS;1	IMP8_OCT84.NSS;1	IMP8_OCT85.NSS;
IMP8_OCT86.NSS;1	IMP8_OCT87.NSS;1	IMP8_OCT88.NSS;1	IMP8_SEP84.NSS;
IMP8_SEP85.NSS;1	IMP8_SEP86.NSS;1	IMP8_SEP87.NSS;1	IMP8_SEP88.NSS;

Total of 60 files.

Directory of D-086840 (C-029407)

IMP8_APR89.NSS;1	IMP8_AUG89.NSS;1	IMP8_DEC89.NSS;1	IMP8_FEB89.NSS;
IMP8_JAN89.NSS;1	IMP8_JUL89.NSS;1	IMP8_JUN89.NSS;1	IMP8_MAR89.NSS;
IMP8_MAY89.NSS;1	IMP8_NOV89.NSS;1	IMP8_OCT89.NSS;1	IMP8_SEP89.NSS;

Total of 12 files.

Directory D-086832 (C-029406)

IMP8_JAN90.NSS;1	IMP8_FEB90.NSS;1	IMP8_MAR90.NSS;1	IMP8_APR90.NSS;
IMP8_MAY90.NSS;1	IMP8_JUN90.NSS;1	IMP8_JUL90.NSS;1	IMP8_AUG90.NSS;
IMP8_SEP90.NSS;1	IMP8_OCT90.NSS;1	IMP8_NOV90.NSS;1	IMP8_DEC90.NSS;
IMP8_JAN91.NSS;1	IMP8_FEB91.NSS;1	IMP8_MAR91.NSS;1	IMP8_APR91.NSS;
IMP8_MAY91.NSS;1	IMP8_JUN91.NSS;1	IMP8_JUL91.NSS;1	IMP8_AUG91.NSS;
IMP8_SEP91.NSS;1	IMP8_OCT91.NSS;1	IMP8_NOV91.NSS;2	IMP8_DEC91.NSS;

Total of 24 files.

Directory of D-101540 (C-031126)

IMP8_9201.NSS;1	IMP8_9202.NSS;1	IMP8_9203.NSS;1	IMP8_9204.NSS;1
IMP8_9205.NSS;1	IMP8_9206.NSS;1	IMP8_9207.NSS;1	IMP8_9208.NSS;1
IMP8_9209.NSS;1	IMP8_9210.NSS;1	IMP8_9211.NSS;1	IMP8_9212.NSS;1

Total of 12 files.

Sample of file IMP7-APR73.NSS on Tape D-079736

```

IMP7 730401 25638.0 70718.0 8.9990E+00 4.2770E+02 -2.5570E+00 3.2750E+04 1.5020E+04
8.8670E+01 -9.9990E+02 4.2840E+02 -8.7899E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02
IMP7 730401 25905.0 71145.0 9.8100E+00 4.2770E+02 -2.6990E+00 2.5870E+04 1.3740E+04
7.0460E+01 2.4351E-02 4.2800E+00 3.1985E+01 4.5505E+00 1.6160E+00 1.2370E+02
IMP7 730401 26171.0 71611.0 7.8860E+00 4.3060E+02 -2.0880E+00 4.3190E+04 1.7030E+04
6.7520E+01 3.5962E-02 4.3280E+00 7.6797E+01 2.8972E+00 3.7170E+00 1.4190E+02
IMP7 730401 26437.0 72037.0 6.9280E+00 4.3050E+02 -2.0360E+00 3.9580E+04 1.5960E+04
6.9570E+01 2.9500E-02 6.6736E+00 9.4061E+00 1.8774E+00 2.5610E+00 1.2530E+02
IMP7 730401 26703.0 72503.0 5.8810E+00 4.2720E+02 -2.1500E+00 6.7250E+04 2.3070E+04
7.3620E+01 9.1504E-03 8.0880E+01 1.7035E+01 9.2656E-01 3.8310E+00 7.8350E+01
IMP7 730401 26902.0 72622.0 6.1590E+00 4.3000E+02 -2.6250E+00 8.0590E+04 2.9150E+04
6.9940E+01 5.1856E-02 5.9469E+00 -3.6867E+01 3.7789E+00 2.1680E+00 5.8240E+01
IMP7 730401 27103.0 73143.0 6.0210E+00 4.3090E+02 -1.1100E+00 6.1420E+04 2.0590E+04
7.4440E+01 5.5299E-02 1.6016E+00 3.4724E+01 3.0873E+00 6.2340E+00 7.8930E+01
IMP7 730401 27302.0 73502.0 5.3860E+00 4.2740E+02 -1.6700E+00 5.9790E+04 2.0230E+04
7.2310E+01 5.9439E-02 1.2204E+01 -1.5451E+01 5.1035E+00 1.9250E+00 1.5430E+02
IMP7 730401 27502.0 73822.0 6.7240E+00 4.3300E+02 -2.3050E-01 2.6200E+04 9.2010E+03
7.8780E+01 7.8036E-02 1.8076E+01 2.8702E+00 3.3152E+00 1.9910E+00 9.4520E+01
IMP7 730401 27768.0 74248.0 6.8210E+00 4.3080E+02 -9.1540E-01 3.2630E+04 1.2320E+04
7.4260E+01 1.4934E-02 2.8997E+01 2.7807E+01 1.0241E+00 1.2280E+00 7.1430E+01
IMP7 730401 28034.0 74714.0 7.2390E+00 4.3060E+02 -8.1530E-01 3.3460E+04 1.1200E+04
7.2700E+01 1.4278E-02 2.4899E+01 2.2896E+01 5.6240E-01 9.1300E+00 7.8430E+01
IMP7 730401 28233.0 75033.0 4.2030E+00 4.3260E+02 -1.2880E+00 5.4770E+04 1.4660E+04
7.7640E+01 3.7820E-02 1.2771E+01 7.4129E+00 2.6753E+00 2.8610E+00 8.3240E+01
IMP7 730401 28500.0 75500.0 4.8420E+00 4.2990E+02 -2.1250E+00 5.6790E+04 1.4340E+04
7.6660E+01 -9.9990E+02 4.3080E+02 -8.8450E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02
IMP7 730401 28700.0 75820.0 7.5350E+00 4.3040E+02 -1.6440E+00 5.4480E+04 1.8910E+04
7.2330E+01 1.4118E-02 1.3514E+01 4.7722E+01 1.0532E+01 1.3180E+00 1.0950E+02
IMP7 730401 29032.0 80352.0 6.7950E+00 4.2880E+02 -2.5950E+00 3.6630E+04 1.5080E+04
7.8220E+01 4.1456E-02 6.0169E+00 5.2289E+01 4.3962E+00 3.4610E+00 1.1670E+01
IMP7 730401 29431.0 81031.0 8.3360E+00 4.3160E+02 -1.8430E+00 6.8910E+04 2.3290E+04
7.8350E+01 4.4053E-02 4.4593E+00 4.3968E+01 3.9599E+00 2.1720E+00 4.7980E+01
IMP7 730401 29632.0 81352.0 7.1040E+00 4.3260E+02 -7.9960E-01 7.2160E+04 2.5390E+04
7.6010E+01 2.5948E-02 1.1016E+01 9.8604E+00 3.9005E+00 1.6600E+00 7.1730E+01
IMP7 730401 29997.0 81817.0 7.4470E+00 4.3140E+02 -1.1080E+00 8.3840E+04 2.5450E+04
7.4270E+01 3.3026E-02 7.1990E+00 -6.5745E+01 6.7756E+00 2.5960E+00 4.9920E+01
IMP7 730401 30230.0 82350.0 8.2160E+00 4.3040E+02 -1.5080E+00 6.2810E+04 2.4260E+04
7.2610E+01 7.6660E-02 1.0971E+01 -2.1105E+01 4.9784E+00 1.6710E+00 9.5490E+01
IMP7 730401 30429.0 82709.0 5.9430E+00 4.2580E+02 -6.2810E-01 5.9460E+04 2.3430E+04
7.6800E+01 3.7723E-02 7.1894E+00 1.6511E+01 3.0786E+00 1.4460E+00 3.0310E+01
IMP7 730401 30529.0 83029.0 6.2170E+00 4.2600E+02 -1.8090E+00 4.8140E+04 1.7470E+04
7.8100E+01 5.1794E-02 2.1565E+00 -4.6011E+01 4.1634E+00 1.0720E+00 5.2850E+01
IMP7 730401 30829.0 83349.0 6.9400E+00 4.2940E+02 -6.6800E-01 4.3600E+04 1.6680E+04
7.5440E+01 3.8639E-02 1.0795E+01 -3.8780E+01 3.6960E+00 2.3070E+00 1.6570E+02
IMP7 730401 31029.0 83709.0 4.8750E+00 4.2740E+02 -1.2150E+00 5.2220E+04 1.7000E+04
7.2430E+01 4.5455E-02 6.7416E+00 -4.1399E+01 5.9772E+00 4.0560E+00 4.5410E+01
IMP7 730401 31228.0 84028.0 6.8140E+00 4.3450E+02 -1.0420E-01 7.8530E+04 3.2020E+04
6.6250E+01 4.7551E-02 8.0584E+00 -4.7173E+01 4.8137E+00 1.4990E+00 6.8200E+01
IMP7 730401 31428.0 84348.0 4.7640E+00 4.2960E+02 -2.5270E-01 6.9040E+04 2.9130E+04
7.5470E+01 3.4185E-02 1.4338E+01 -1.8085E+00 3.2248E+00 1.8340E+00 8.9040E+01
IMP7 730401 31627.0 84707.0 9.2930E+00 4.3180E+02 1.9290E+00 4.4300E+04 2.3000E+04
8.1180E+01 5.2742E-02 1.2450E+01 -2.1191E+00 3.1388E+00 1.7890E+00 3.5940E+02
IMP7 730401 31827.0 85027.0 4.6030E+00 4.3340E+02 1.9730E-01 9.6830E+04 3.7860E+04
7.1970E+01 7.8100E-02 1.2149E+01 6.4137E+01 6.2950E+00 2.2120E+00 1.3660E+02
IMP7 730401 32094.0 85454.0 4.9480E+00 4.3160E+02 4.4830E-01 1.1240E+05 4.4600E+04
7.1750E+01 7.4331E-02 1.2259E+01 4.3565E+01 6.6428E+00 1.4490E+00 1.4130E+02
IMP7 730401 32293.0 85813.0 6.5640E+00 4.3080E+02 6.7530E-01 7.6010E+04 4.0790E+04
7.4460E+01 9.8164E-02 5.4987E+01 2.7472E+01 2.4032E+01 4.4960E+00 7.5670E+01
IMP7 730401 32494.0 90134.0 5.0980E+00 4.2930E+02 6.3910E-01 1.0400E+05 4.0140E+04
6.9640E+01 7.1672E-02 1.1777E+01 4.1752E+01 7.0235E+00 1.2150E+00 1.6630E+02
IMP7 730401 32695.0 90455.0 5.9830E+00 4.3230E+02 9.6000E-01 7.1870E+04 3.8660E+04
7.3130E+01 4.2734E-02 1.6438E+00 -3.9615E-01 4.1263E+00 1.5420E+00 7.8770E+01
IMP7 730401 32894.0 90814.0 5.1230E+00 4.2480E+02 6.8100E-01 9.1480E+04 3.9580E+04

```

Sample of file IMP8-JAN92.NSS

Data file: 1 Record: 1 IMP8_9201.NSS

D-101540

Start date: 01/04/92

D-101540

```

IMP8 920104 70424.0 193344.0 4.0480E+01 -2.6310E+01 5.6890E+01
6.1980E+00 4.2470E+02 1.0980E+00 7.9130E+04 6.0390E+04 9.7110E+01
-9.9990E+02 4.2380E+02 8.8852E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02
IMP8 920104 70645.0 193725.0 4.0480E+01 -2.6300E+01 5.6950E+01
6.0450E+00 4.4260E+02 -1.2440E+00 8.0360E+04 7.8190E+04 4.6110E+01
7.1503E-02 1.2061E+01 -2.1510E+01 1.6449E+01 4.8570E+00 1.7100E+02
IMP8 920104 70798.0 193958.0 4.0470E+01 -2.6290E+01 5.6990E+01
5.7560E+00 4.3580E+02 -2.0560E+00 8.2090E+04 7.1340E+04 5.7340E+01
5.3128E-02 2.9575E+01 5.8521E+01 8.4007E+00 1.2630E+00 4.5160E+01
IMP8 920104 70954.0 194234.0 4.0470E+01 -2.6280E+01 5.7030E+01
6.8500E+00 4.6280E+02 -3.6400E+00 1.1200E+05 7.9430E+04 5.8330E+01
3.1338E-02 2.9759E+01 3.2218E+01 6.5733E+00 2.4970E+00 6.2500E+01
IMP8 920104 71189.0 194629.0 4.0470E+01 -2.6270E+01 5.7090E+01
7.2350E+00 4.7400E+02 -1.9380E+00 1.0530E+05 8.0560E+04 5.4950E+01
4.2171E-02 2.0767E+01 1.3718E+01 7.8849E+00 1.4400E+00 6.7010E+01
IMP8 920104 71409.0 195009.0 4.0470E+01 -2.6260E+01 5.7150E+01
5.8270E+00 4.6730E+02 -3.3950E+00 1.2530E+05 6.8060E+04 5.9890E+01
4.1363E-02 2.6333E+01 1.7795E+01 4.7210E+00 2.2590E+00 7.2720E+01
IMP8 920104 71562.0 195242.0 4.0460E+01 -2.6250E+01 5.7190E+01
7.4510E+00 4.6570E+02 -3.0500E+00 1.0910E+05 8.3970E+04 4.9570E+01
4.3218E-02 2.6689E+01 2.7867E+01 6.1967E+00 2.1880E+00 4.4470E+01
IMP8 920104 71742.0 195542.0 4.0460E+01 -2.6240E+01 5.7240E+01
7.6270E+00 4.5280E+02 -2.8770E+00 1.0700E+05 9.5590E+04 4.3810E+01
3.9726E-02 3.4199E+01 3.8462E+01 5.8114E+00 1.2840E+00 4.3180E+01
IMP8 920104 71901.0 195821.0 4.0460E+01 -2.6230E+01 5.7280E+01
6.9620E+00 4.4910E+02 -4.7830E+00 1.3180E+05 7.6010E+04 5.9060E+01
-9.9990E+02 4.3990E+02 -8.3894E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02
IMP8 920104 72052.0 200052.0 4.0460E+01 -2.6220E+01 5.7320E+01
7.4420E+00 4.5990E+02 -3.0280E+00 1.3710E+05 9.8000E+04 5.6260E+01
2.9965E-02 4.2425E+01 4.0796E+01 3.6335E+00 2.2660E+00 7.2740E+01
IMP8 920104 72278.0 200438.0 4.0450E+01 -2.6210E+01 5.7380E+01
7.4910E+00 4.6380E+02 -2.3730E+00 1.4560E+05 9.8670E+04 5.6510E+01
4.4716E-02 3.5743E+01 2.2552E+01 6.0953E+00 1.3570E+00 4.8500E+01
IMP8 920104 72430.0 200710.0 4.0450E+01 -2.6200E+01 5.7420E+01
7.6690E+00 4.6550E+02 -3.2190E+00 1.4360E+05 9.9380E+04 5.6190E+01
3.9496E-02 5.2635E+01 2.8915E+01 4.9086E+00 1.8870E+00 6.4620E+01
IMP8 920104 72658.0 201058.0 4.0450E+01 -2.6190E+01 5.7480E+01
6.9190E+00 4.5600E+02 -3.0300E+00 1.4280E+05 9.9690E+04 5.3250E+01
3.6187E-02 5.0824E+01 3.1715E+01 4.1958E+00 2.3080E+00 5.8460E+01
IMP8 920104 72889.0 201449.0 4.0450E+01 -2.6180E+01 5.7540E+01
7.0550E+00 4.6440E+02 -3.0040E+00 1.2750E+05 9.1030E+04 4.9640E+01
4.8587E-02 4.3729E+01 1.9805E+01 6.7346E+00 1.1630E+00 6.8970E+01
IMP8 920104 73047.0 201727.0 4.0450E+01 -2.6170E+01 5.7580E+01
7.2080E+00 4.6720E+02 -3.5530E+00 1.2980E+05 9.4560E+04 5.2190E+01
3.9171E-02 4.3595E+01 2.6323E+01 5.1966E+00 1.7990E+00 8.0780E+01

```

IMP-H, IMP-I, IMP-J

Merged IMP I,H,J 3 Hr Plasma Parm

71-019A-11C (IMP-I) SPMS-00202

72-073A-10A (IMP-H)

73-078A-10A (IMP-J)

This data set has been restored. There was originally 1 9-track, 800 BPI tape written in EBCDIC. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on a 360 computer. The DR and DS number along with the corresponding D number and the time spans is as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR03651	DS03651	D28815	1	03/18/71 - 12/31/74

REQ. AGENT
DBN

RAND NO.
RC7192

ACQ. AGENT
DJH

IMP I,H,J

SOLAR WIND DATA

71-019A-11C

72-073A-10A

73-078A-10A

This data set consists of 1 tape. The tape is 1 file, 800 BPI, EBCDIC, 9-track and was created on an IBM 360 computer.

Each physical record will contain 4 logical records. Also each physical record will contain 20 bytes of padding at the end.

These data tapes contain merged IMP data, with no indication as to which space-craft the data is from. According to Feldom, (Bame) IMP I density may be 20 percent high.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-28815	C-18684	03/18/71 - 12/31/74

Format For

IMP I,H,J

71-019A-11C
72-073A-10A
73-078A-10A

<u>DISCRIPTION</u>	<u>BYTES</u>	<u>FORMAT</u>	<u>UNITS</u>
BLANKS	1-2		
YEAR	3-4		
MONTH	5-6		
DAY	7-8		
AVG. COUNT *	9		
BLANK	10		
DENS.	11-15	P5.2	CM ⁻³
BLANK	16		
VELOC.	17-21	P5.1	CM/SEC
BLANK	22		
TEMP.	23-29		°K

* (3*N)=HR. OF DAY (N=AVG. COUNT)

UNITED STATES GOVERNMENT

Memorandum

TO : 71-019A-11

DATE: December 7, 1976

FROM : J. King

SUBJECT: Normalization of Ion Density Values

According to Bill Feldman on December 3, 1976, the LASL IMP 6 plasma density values must be increased by 20% to bring them into line with IMP 7 and 8 plasma density values. This is true of the IMP 6 hourly values we have received from LASL for 1971-1973. We will have to determine whether their yet-to-be-submitted 1974 density values have already been increased by 20%. This 20% correction will have been made in a composite IMP 6/7/8 3-hour-average data tape now being provided for incorporation into the master NSSDC composite plasma data set.



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

REQ. AGENT

BMW

ACQ. AGENT

SK

IMP-I

2-MINUTE PROTON ALPHA SOLAR WIND MOMENTS

71-019A-11D

SPMS-00638

This data set consists of one magnetic tape. The tape is 6250 bpi, 9-track, binary, with 90 files (VAX back-up format, 30 data & label files). It was created on a VAX computer. The D and C numbers and time span are as follows:

D# ---	C# ---	FILES -----	TIME SPAN -----
D-79704	C-27526	90	03/18/71 - 08/03/74

71-019A-11D

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

DATE: July 14, 1989
IN REPLY REFER TO: ESS-8:89-52-719
MAIL STOP: D438
TELEPHONE: (505) 667-5389

Dr. Sumant Krishnaswamy
Code 633
NSSDC
NASA/Goddard Space Flight Center
Greenbelt, MD 20771

Dear Sumant,

Under separate cover I am sending you one magnetic tape containing high temporal resolution solar wind ion moments derived from measurements obtained by the Los Alamos plasma experiment on IMP 6. The tape contains 30 files, one for each month when IMP 6 was in the solar wind from March 1971 through atmospheric entry in August 1974. The temporal resolution of these data is approximately 126 seconds. Each data record in these files contains:

- 1) the s/c ID,
- 2) the date yymmdd,
- 3) the time in seconds,
- 4) UT time (hhmmss),
- 5) proton density (cm^{-3}),
- 6) flow speed (km/sec),
- 7) flow azimuth (degrees),
- 8) proton temperature max. (K),
- 9) proton temperature min. (K),
- 10) angle of pressure tensor symmetry axis (degrees),
- 11) alpha particle abundance ratio (relative to protons),
- 12) relative alpha-proton flow speed (km/s),
- 13) azimuth of the relative flow speed (degrees),
- 14) alpha/proton temperature ratio,
- 15) alpha temperature anisotropy ($T_{\text{max}}/T_{\text{min}}$),
- 16) angle of alpha particle pressure tensor symmetry axis (degrees).

I am enclosing a sample listing of the data with the read format indicated. Please contact me (Ph: (505) 667-5389; SPAN:ESSDP1::073500) if you have any questions concerning this submission.

Sincerely,


J. T. Gosling

JTG:jlt

Enc. a/s

Cy: J. H. King, Code 633, GSFC
CRM-4(2)/A150

Documentation for IMP Proton data files submitted to NSSDC

FILE ORGANIZATION: Sequential

RECORD FORMAT: Variable length, maximum 90 bytes

RECORD ATTRIBUTES: Fortran carriage control

C
C DEFINITION: 16 ELEMENTS OF IMP PROTONS
C ELEMENTS:
C 1 BIRD ID IMP6,IMP7,IMP8
C 2 IYYMDD
C 3 SECONDS
C 4 UTIME HHMMSS
C 5 DENSITY PROTON NUMERICAL (cm-3)
C 6 FLOW SPEED PROTON NUMERICAL (km/sec)
C 7 FLOW AZIMUTH PROTON NUMERICAL (deg)
C 8 TPAR (MAX) PROTON NUMERICAL (K)
C 9 TPER (MIN) PROTON NUMERICAL (K)
C 10 PSIT PRESSURE TENSOR SYMMETRY AXIS, AZ (deg)
C 11 ALPHA/PROTON FLUX RATIO
C 12 FLOW SPEED AP RELATIVE FLOW SPEED (km/sec)
C 13 FLOW AZIMUTH AP RELATIVE FLOW ANGLE (deg)
C 14 TRATIO ALPHA TEMP/PROTON TEMP
C 15 TEMP ALPHA TEMP ANISOTROPY
C 16 PSIT ALPHA PRESSURE ASYMMETRY AXIS (deg)

FORMAT:

2000 FORMAT (1X,A4,1X,I6,1X,2(F8.1,1X),5(1PE11.4,1X),/,7(1PE11.4,1X))

READ:

READ (2,2000) BIRD, IYYMDD, SEC, UTIME, (PLASMA(I), I=5,16)

SAMPLE:

IMP6 720102 73917.0 203157.0 6.3520E+00 4.3980E+02 -2.3450E+00 9.1740E+04 6.0630E+04
7.4800E+01 3.7762E-02 1.5620E+01 1.2953E+01 3.1398E+00 1.6850E+00 8.9540E+01
IMP6 720102 74043.0 203403.0 6.9130E+00 4.4410E+02 -1.3690E+00 7.5660E+04 4.9010E+04
6.7980E+01 3.8666E-02 7.0618E+00 -5.4206E+01 4.5909E+00 1.9530E+00 1.0730E+02
IMP6 720102 74169.0 203609.0 5.4410E+00 4.2870E+02 -2.6520E+00 1.0260E+05 6.4780E+04
5.5580E+01 4.7272E-02 1.0697E+01 -2.5007E+01 5.6153E+00 1.3010E+00 6.4110E+01
IMP6 720102 74295.0 203815.0 5.2580E+00 4.2310E+02 -1.1270E+00 8.2170E+04 6.1860E+04
4.5920E+01 5.1602E-02 5.2378E+00 3.8679E+01 3.7137E+00 1.4450E+00 1.8570E+01
IMP6 720102 74421.0 204021.0 6.4190E+00 4.2500E+02 -1.5950E+00 8.0450E+04 6.7040E+04
3.6020E+01 3.4329E-02 9.2325E+00 3.8060E+01 4.1087E+00 1.2080E+00 8.9800E+01

\$JOB 17:46:13

\$NOP***** DUMP OF X-455 *****

\$ASS IN MS4 SI TY

\$NOTE 80J 17:46:44

\$EXEC DPHEX BS

INPUT TAPE ON MS4

DATA INPUT 1 10 10

FILE 1	RECORD 1	LENGTH 136	BYTES	428	4	6760	0			
(0)	4040F7F1	F0F3F1F8	F34040F3	40F2F940	F4F2F84B	F4404040	F8F7F6F0	F04040F7	F1F0F3F1	F8F44040
(40)	F34BF9F1	40F4F3F1	4BF54040	40F6F2F3	F4F34040	F7E1F0F3	F1F8F54B	40F44BF0	F840F4F2	F54BF240
(80)	4040F5F0	F3F6F440	40F7F1F0	F3F1F8F6	4040F44B	F1F540F4	F1F34BF6	404040F5	F2F0F7F6	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 2	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F1F8	F74040F4	4BF1F940	F4F1F84B	F6404040	F5F1F7F2	F94040F7	F1FLF3F1	F8F44040
(40)	F44BF5F4	40F4F0F6	4BF84040	40F5F3F3	F8F94040	F7F1F0F3	F1F9F140	40F44BF8	F440F4F0	F34BF040
(80)	4040F5F7	F4F2F240	40F7F1F0	F3F1F9F2	4040F54B	F0F940F4	F0F44BF3	404040F5	F4F9F0F9	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 3	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F1F9	F34040F5	4BF2F140	F3F9F94B	F7404040	F6F2F2F3	F54040F7	F1F0F3F1	F9F44040
(40)	F54BF7F1	40F4F0F0	4BF74040	40F6F6F7	F8F84040	F7F1F0F3	F1F9F540	F1F44BF1	F640F4F5	F34BF240
(80)	40F1F6F6	F0F7F840	40F7F1F0	F3F1F9F6	40F1F04B	F4F940F4	F1F74BF9	4040F1F2	F5F9F2F3	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 4	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F1F9	F74040F9	4BF7F440	F3F9F44B	F1404040	F9F2F0F3	F14040F7	F1F0F3F1	F9F84040
(40)	F84BF4F9	40F3F8F0	4BF44040	40F8F1F7	F4F94040	F7F1F0F3	F2F0F140	40F54BF6	F140F3F8	F54BF440
(80)	4040F6F1	F5F0F740	40F7F1F0	F3F2F0F2	4040F34B	F7F540F4	F0F44BF9	404040F4	F3F4F1F6	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 5	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F2F0	F34040F5	4BF3F440	F4F3F34B	F4404040	F5F4F2F3	F84040F7	F1F0F3F2	F0F44040
(40)	F64BF7F5	40F4F4F4	4BF24040	40F5F1F3	F0F24040	F7F1F0F3	F2FLF540	40F54BF4	F140F4F3	F94BF240
(80)	4040F4F5	F6F2F840	40F7F1F0	F3F2F0F6	4040F54B	F4F540F4	F2F14BF3	404040F3	F3F4F9F3	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 6	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F2F0	F74040F4	4BF8F140	F4F0F34B	F7404040	F4F2F7F4	F54040F7	F1F0F3F2	F0F84040
(40)	F44BF5F5	40F3F9F6	4BF24040	40F8F0F1	F6F34040	F7F1F0F3	F2F1F140	40F44BF6	F040F3F9	F94BF040
(80)	4040F8F5	F2F6F540	40F7F1F0	F3F2F1F2	4040F44B	F7F540F3	F9F74BF3	404040F8	F9F0F7F3	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 7	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F2F1	F34040F5	4BF3F840	F3F9F84B	F9404040	F7F7F6F1	F24040F7	F1F0F3F2	F1F44040
(40)	F54BF1F8	40F3F7F9	4BF44040	40F8F2F6	F4F24040	F7F1F0F3	F2F1F540	40F44BF8	F340F3F5	F24BF540
(80)	4040F8F3	F0F4F940	40F7F1F0	F3F2F1F6	4040F54B	F5F940F3	F6F04BF6	404040F6	F5F8F9F6	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 8	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F2F2	F44040F6	4BF0F840	F3F3F24B	F7404040	F3F2F4F9	F94040F7	F1F0F3F2	F2F54040
(40)	F64BF7F3	40F3F3F3	4BF64040	40F2F7F0	F4F74040	F7F1F0F3	F2F2F640	40F84BF1	F840F3F3	F44BF140
(80)	4040F1F9	F5F4F740	40F7F1F0	F3F2F2F7	4040F74B	F2F440F3	F2F24BF5	404040F1	F5F4F9F7	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 9	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F2F2	F84040F9	4BF9F140	F3F1F24B	F4404040	F1F2F0F6	F14040F7	F1F0F3F2	F3F140F1
(40)	F44BF5F2	40F3F1F0	4BF64040	40F1F4F0	F0F14040	F7F1F0F3	F2F3F240	F2F04BF1	F140F3F1	F24BF440
(80)	4040F1F3	F3F6F940	40F7F1F0	F3F2F3F3	40F2F24B	F9F940F3	F1F14BF3	404040F1	F6F6F0F4	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 10	LENGTH 136	BYTES							
(0)	4040F7F1	F0F3F2F3	F440F2F2	4BF5F240	F3F1F44B	F8404040	F2F5F3F0	F84040F7	F1F0F3F2	F3F540F1
(40)	F24BF0F0	40F3F6F9	4BF94040	F1F0F1F3	F4F84040	F7F1F0F3	F2F3F640	F1F74BF2	F940F3F6	F04BF940
(80)	4040F9F2	F4F6F040	40F7F1F0	F3F2F3F7	40F1F64B	F6F840F3	F8F24BF3	4040F1F1	F6F2F6F0	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 1814	LENGTH 136	BYTES							
(0)	4040F7F4	F1F2F2F7	F140F1F3	4BF4F140	F4F1F64B	F0404040	F4F9F4F4	F94040F7	F4F1F2F2	F7F240F2
(40)	F04BF3F8	40F4F5F6	4BF74040	F1F1F9F3	F1F04040	F7F4F1F2	F2F7F340	F1F74BF3	F940F5F0	F44BF840
(80)	40F1F8F3	F0F4F240	40F7F4F1	F2F2F7F4	40F1F24B	F5F640F5	F2F94BF0	4040F2F7	F7F0F7F4	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD 1815	LENGTH 136	BYTES							
(0)	4040F7F4	F1F2F2F7	F540F1F0	4BF7F940	F5F3F74B	F74040F2	F8F0F0F4	F64040F7	F4F1F2F2	F7F64040

(40)	F44BFF2	F0F5F7F4	48F04040	F1F4F6F2	F9F14040	F7F4F1F2	F2F7F740	40F340F7	F84F5F6	F140F140
(80)	40F1F3F9	F5F5F540	40F7F4F1	F2F2F7F8	4040F440	F2F840F5	F5F44BF9	4040F1F2	F6F9F1F2	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1816	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F2F8	F14040F8	4BF7F640	F5F3F940	F44040F1	F6F1F5F6	F14040F7	F4F1F2F2	F8F24040
(40)	F94BF8F6	40F5F3F5	4BF94040	F1F5F1F9	F1F94040	F7F4F1F2	F2F8F340	F1F04BF1	F340F5F6	F94BF640
(80)	40F1F8F1	F1F1F340	40F7F4F1	F2F2F8F4	4040F740	F3F240F5	F8F54BF8	4040F1F8	F0F3F6F7	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1817	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F2F8	F54040F5	4BF3F340	F5F4F740	F34040F1	F8F6F5F1	F24040F7	F4F1F2F2	F8F64040
(40)	F44BF6F7	40F5F4F4	4BF34040	F1F2F3F0	F5F24040	F7F4F1F2	F2F8F740	40F44BF4	F840F5F1	F24BF240
(80)	40F1F0F8	F1F2F340	40F7F4F1	F2F2F8F8	4040F540	F8F440F4	F7F84BF9	404040F8	F9F7F8F4	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1818	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F2F9	F14040F6	4BF1F540	F4F5F240	F3404040	F8F6F2F0	F14040F7	F4F1F2F2	F9F240F1
(40)	F04BF1F5	40F4F4F9	4BF24040	40F9F9F4	F4F54040	F7F4F1F2	F2F9F340	F1F34BF3	F540F4F5	F84BF040
(80)	40F1F3F0	F1F9F440	40F7F4F1	F2F2F9F4	40F1F140	F8F740F4	F6F74BF7	4040F1F0	F9F9F9F4	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1819	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F2F9	F540F1F1	4BF5F640	F4F5F340	F1404040	F6F1F6F2	F14040F7	F4F1F2F2	F9F64040
(40)	F94BF8F9	40F4F3F5	4BF84040	40F5F0F6	F7F64040	F7F4F1F2	F2F9F740	40F94BF4	F140F4F3	F84BF540
(80)	4040F3F3	F4F1F840	40F7F4F1	F2F2F9F8	40F1F440	F6F140F4	F3F54BF3	404040F3	F1F2F5F6	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1820	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F3F0	F14040F9	4BF9F640	F4F3F240	F4404040	F1F8F2F3	F74040F7	F4F1F2F3	F0F240F1
(40)	F14BF2F7	40F4F2F5	4BF34040	40F2F3F3	F0F94040	F7F4F1F2	F3F0F340	40F94BF0	F840F4F1	F84BF640
(80)	4040F1F7	F0F5F640	40F7F4F1	F2F3F0F4	4040F940	F2F240F4	F0F14BF5	404040F2	F2F8F0F9	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1821	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F3F0	F54040F9	4BF3F540	F3F9F940	F0404040	F2F8F6F7	F74040F7	F4F1F2F3	F0F64040
(40)	F84BF9F1	40F3F9F1	4BF34040	40F3F5F4	F3F84040	F7F4F1F2	F3F0F740	40F84BF8	F340F3F8	F94BF040
(80)	4040F3F6	F7F8F840	40F7F4F1	F2F3F0F8	40F2F640	F4F040F4	F1F64BF8	404040F3	F5F9F3F4	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1822	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F3F1	F140F1F8	4BF0F440	F4F4F140	F74040F1	F2F7F4F4	F44040F7	F4F1F2F3	F1F240F2
(40)	F14BF4F9	40F4F4F5	4BF54040	40F8F9F8	F2F24040	F7F4F1F2	F3F1F340	F1F64BF7	F540F4F5	F44BF640
(80)	4040F9F1	F1F6F040	40F7F4F1	F2F3F1F4	4040F840	F5F840F4	F5F74BF8	4040F1F4	F0F0F4F7	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	RECORD	1823	LENGTH	136	BYTES					
(0)	4040F7F4	F1F2F3F1	F140F1F8	4BF0F440	F4F4F140	F74040F1	F2F7F4F4	F44040F7	F4F1F2F3	F1F240F2
(40)	F54BF0F9	40F4F7F6	4BF44040	F1F8F0F1	F1F54040	F7F4F1F2	F3F1F740	F1F34BF2	F940F5F1	F14BF140
(80)	40F2F0F0	F5F9F640	40F7F4F1	F2F3F1F8	40F1F140	F1F640F5	F0F44BF0	4040F2F0	F9F8F7F3	40404040
(120)	40404040	40404040	40404040	40404040						
FILE 1	# OF DATA RECORDS	1823	# SUCCESSFUL READS	1833						
	# PERMANENT READ ERRORS	0	# ZERO BYTE ERRORS	0	# SHORT RECORDS	0	# UNDEFINED ERRORS	0		
	# OF RECORDS RETRIED	0	TOTAL # OF RETRIES	0						

\$ASS IN LPS
\$NOP
\$NOP
\$NCF
\$NCF ***** LIST OF IMP-CUT *****
\$EXE TPLIST BS

IMP-I
D-79704
71-019A-11D
3/18/71 - 8/03/74

INPUT PARAMETERS ARE: AS SR=1=1 1 1 2

TAPE NO. 1 FILE NO. 2
RECORD 1 LENGTH 248
0094 IMP6 710318 26119.0 71510.0 1.7570E+00 4.1870E+02 -6.1770E-01 8.4590E+04 4.7710E+04 0087
4.7110E+01 8.9766E-02 2.4901E+01 2.7714E+01 3.9785E+00 1.9430E+00 5.3300E+01 0094 IMP6 710318
26334.0 71854.0 2.3990E+00 4.1370E+02 -1.5220E+00 7.4080E+04 4.5750E+04 0087 4.3730E+01 4.541
6E-02 4.0678E+01 2.2241E+01 3.5903E+00 1.7460E+00 6.2590E+01 0094 IMP6 710318 26445.0 72045.0
2.0950E+00 4.2120E+02 -1.8000E+00 7.5380E+04 6.7590E+04 0087 5.3670E+01 3.7649E-02 3.2257E+01
4.7264E+00 3.3475E+00 1.4190E+00 1.1550E+02 0094 IMP6 710318 27226.0 73346.0 2.1780E+00 4.3
57.0E+02 -2.5260E+00 7.5370E+04 3.2940E+04 0087 6.9720E+01 4.5650E-02 2.9817E+01 1.0983E+01 4.2
560E+00 3.4030E+00 8.1250E+01 0094 IMP6 710318 27338.0 73538.0 1.8110E+00 4.1070E+02 2.7790E-
02 8.7720E+04 4.4260E+04 0087 6.4040E+01 1.0963E-02 6.2263E+01 -4.7183E+01 1.5176E+00 1.9390E+
00 4.9960E+01 0094 IMP6 710318 27450.0 73730.0 2.0090E+00 4.1650E+02 -1.5020E+00 1.3640E+05 4
6320E+04 0087 3.8140E+01 6.3556E-02 3.5214E+01 4.8215E+01 2.5160E+00 1.8560E+00 5.1870E+01 0095
4 IMP6 710318 27561.0 73921.0 2.0620E+00 4.1730E+02 -1.5390E+00 9.3520E+04 4.4230E+04 0087 5.1
820E+01 5.7715E-02 1.9925E+01 3.4379E+01 4.2468E+00 2.8080E+00 5.3300E+01 0094 IMP6 710318 27
673.0 74113.0 2.1800E+00 4.2330E+02 -1.9310E+00 6.4250E+04 5.9510E+04 0087 1.6140E+02 4.7286E-
02 2.8550E+01 -3.3351E+00 3.9727E+00 1.1570E+00 1.6060E+02 0094 IMP6 710318 27785.0 74305.0 2
0870E+00 4.3580E+02 -2.1010E+00 7.7980E+04 5.3980E+04 0087 8.3460E+01 4.2387E-02 2.7769E+01 4
0359E+00 3.1331E+00 2.1730E+00 9.2150E+01 0094 IMP6 710318 27896.0 74456.0 2.0810E+00 4.3960
E+02 -2.0010E+00 6.5250E+04 2.4460E+04 0087 8.6050E+01 9.3408E-02 1.8715E+01 -2.6193E+01 6.6380
E+00 2.3640E+00 1.3590E+02 0094 IMP6 710318 28007.0 74647.0 2.2910E+00 4.4570E+02 -2.0400E+01
7.2460E+04 3.5400E+04 0087 8.5650E+01 5.9372E-02 1.7739E+01 -1.6215E+01 4.6657E+00 1.8130E+00
1.3640E+02

***** JOB DONE.
\$EXE TPLIST BS

INPUT PARAMETERS ARE: AS SR=1=1 1 1 89

TAPE NO. 1 FILE NO. 89
RECORD 1 LENGTH 248
0094 IMP6 740803 15997.0 42637.0 6.7390E+00 5.6970E+02 -1.9550E+00 4.8590E+05 3.5570E+05 0087
8.5800E+01 -9.9990E+02 5.6170E+02 -8.7739E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803
16134.0 42854.0 6.3330E+00 5.1640E+02 2.3570E+00 4.2800E+05 3.6560E+05 0087 8.8430E+01 -9.999
0E+02 4.9540E+02 8.7524E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803 16271.0 43111.0
6.7240E+00 5.4470E+02 1.5120E+00 5.8550E+05 4.2820E+05 0087 1.5530E+02 -9.9990E+02 5.3240E+02
8.6649E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803 16409.0 43329.0 5.7220E+00 5.9
10E+02 2.0080E+00 4.3910E+05 4.700E+05 0087 1.2380E+02 -9.9990E+02 5.8680E+02 8.8077E+01 -9.9
990E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803 16545.0 43545.0 5.3030E+00 5.8160E+02 7.0440E-
01 5.6980E+05 4.4680E+05 0087 1.0560E+02 -9.9990E+02 5.7790E+02 8.9744E+01 -9.9990E+02 -9.9990E+
02 -9.9990E+02 0094 IMP6 740803 16682.0 43802.0 5.1580E+00 5.4120E+02 -1.2920E+00 4.6210E+05 3
0228E+05 0087 1.0640E+02 -9.9990E+02 5.3080E+02 -8.7825E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02 0095
4 IMP6 740803 16820.0 44020.0 3.6330E+00 5.4950E+02 -1.4250E-01 4.0040E+05 2.4190E+05 0087 8.1
240E+01 -9.9990E+02 5.4290E+02 -8.9835E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803 16
957.0 44237.0 4.2770E+00 5.0410E+02 2.9900E+00 4.6210E+05 3.3030E+05 0087 6.0460E+01 -9.9990E+
02 4.9760E+02 8.7854E+01 -9.9990E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803 17094.0 44454.0 5
0130E+00 5.7630E+02 2.1940E+00 5.0190E+05 2.6880E+05 0087 7.7250E+01 2.6803E+00 3.0148E+02 8
0370E+01 5.1298E+00 3.9590E+00 1.3750E+01 0094 IMP6 740803 17232.0 44712.0 4.8020E+00 5.6580
E+02 3.3100E+01 5.1800E+05 3.6360E+05 0087 8.0280E+01 -9.9990E+02 5.5640E+02 8.6726E+01 -9.9990
E+02 -9.9990E+02 -9.9990E+02 0094 IMP6 740803 17369.0 44929.0 5.5930E+00 5.6990E+02 3.8950E+00
4.6140E+05 4.3010E+05 0087 1.0440E+02 -9.9990E+02 5.5910E+02 8.6385E+01 -9.9990E+02 -9.9990E+02
-9.9990E+02

***** JOB DONE.
\$WEO LPS