

#337

IMP-F

HOURLY AVERAGED PLASMA

(67-051A-08C)

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

HOURLY AVERAGED PLASMA DATA

67-051A-08C

SPHE-00728

THIS DATA SET HAS BEEN RESTORED. THE ORIGINAL TAPE WAS 9-TRACK, 800 BPI WITH ONE FILE OF DATA. THE TAPE WAS CREATED ON AN IBM 360 COMPUTER. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBER AND THE TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02873	DS02873	D23432	1	06/04/67 - 12/02/67

REQ. AGENT  
CAW

RAND NO.

ACQ. AGENT  
DJH

IMP-F

HOURLY AVERAGED PLASMA

67-051A-08C

This data set contains Hourly Averaged Plasma Data from IMP-F.  
The tape was created on the 360/75 computer and the tape is 9 track, 800,  
BINARY, ODD, 1 FILE. The tape format is listed on the following pages, and  
the 'D' & 'C' numbers are listed below with time spans and orbits.

<u>D#</u>	<u>C#</u>	<u>Time Span</u>	<u>Orbits</u>
D-23432	C-17584	06/03/67 - 12/02/67	3 - 45

## HOURLY AVERAGED PLASMA

Data set (tape) 67-051A-08C IMP F Hourly Averaged Plasma (merged with magnetic field) data from Ogilvie's instrument.

Data are hourly averaged density, temperature, velocity, beta (defined as  $NKT/(B^2/8/\pi)$ ), energy density, pressure, VXB electric field and associated parameters locating the spacecraft in ecliptic coordinates and used for quality control of the averages.

Format as follows:

<u>WORD</u>	<u>FORMAT</u>	<u>DATA</u>
1	I	Day of year (Jan 1 = 1)
2	I	Hour of Day (1 to 24)
3	I	Orbit number
4	F	Mag (B)
5	F	Theta
6	F	PHI
7	F	GSE-BX
8	F	Standard deviation (SD) for BX
9	F	BY
10	F	SD-BY
11	F	BZ
12	F	SD-BZ
13	F	SD for mag (B)
14	I	Number of B vectors used in average
15	F	Number density for ions
16	F	SD for density
17	F	Average temperature
18	F	SD T
19	F	Bulk speed



<u>WORD</u>	<u>FORMAT</u>	<u>DATA</u>
20	F	SD V
21	F	Beta = $NKT / (B^{**2} / 8 / PI)$
22	F	SD Beta
23	F	Energy density
24	F	SD ED
25	F	Pressure = $RHO * V^{**2}$ , RHO=number density * proton mass ↗
26	F	SD Pressure
27	F	Electric field = $(V \times B) / C * Theta$
28	F	SD (E Theta)
29	F	Electric field PHI comp. = $(V \times B) / C * PHI$
30	F	SD (E PHI)
31	F	$(E+) / F ?$
32	F	SD word 31
33	I	Number of plasma data points in average
34	F	Satellite radial distance (ER)
35	F	GSE-satellite X position in ER
36	F	GSE-Y
37	F	GSE-Z
38	F	Geomagnetic latitude sun position
39	F	?
40		control word

Tape was written on an IBM 360 series computer, is 9 track 800 BPI, and contains all data for 1967. Physical record size apparently is 32004 bytes. LRECL=160 bytes.

```

IEF2265I SYS76103.T0E4505.SV000.YZJRJWA4.R0000147 SYSCUT
IEF2265I VOL SER NOS= K3SCR2.
IEF2265I SYS76103.T0E4505.RV000.YZJRJWA4.R0000148 DELETED
IEF2265I VOL SER NOS= K3SCR2.
IEF2265I SYS76103.T0E4505.RV000.YZJRJWA4.S0000149 SYSIN
IEF2265I VCL SER NOS= K3SCR4.
IEF2265I SYS76103.T0E4505.RV000.YZJRJWA4.S0000149 DELETED
IEF2265I VCL SER NOS= K3SCR4.
IEF3731I STEP /LINK / START 76103.1232
IEF3741I STEP /LINK / STOP 76103.1232 CPU 0MIN 01.34SEC MAIN 130K LCS 0K
- STEP 01 - RETURN CODE = 0000 STEP TIME = .20 MINS=(CPU= .02,IO= .18)

```

```

IO IN SECS. DISK= 10.32,DRUM= .56,TAPE= .00,CELL= .00,OTHR= .16
XXGO EXEC PGM=*.LINK.SYSLMCD,CCND=(4,LT),REGION=70K 00000230
XXFT05F001 DD DCNAME=CATA5 00000240
XXFT06F001 DD SYSOUT=&CUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE) 00000250
IEF6531 SUBSTITUTICN JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
XXFT07F001 DD SYSOUT=B,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80) 00000260
XXSPRINT DD SYSOUT=&CUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE), 00000270
IEF6531 SUBSTITUTICN JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
XX SPACE=(CYL,(0,1)),UNIT=(DISK,3) 00000280
//GO.FT08F001 DD UNIT=9TRACK,DISP=(CLD,KEEP),LABEL=(01,BLP,,IN),
// DCB=(BLKSIZE=32000,RECFM=C,DSN=2),
// VCL=SER=JJ0026
//GO.DATAS DC *
//

```

```

IEF236I ALLCC. FOR YZJRJWA4 GC
IEF237I 232 ALLCCATED TO PGM=*.DD
IEF237I 231 ALLCCATED TO FT05F001
IEF237I 332 ALLCCATED TO FT06F001
IEF237I 332 ALLCCATED TO FT07F001
IEF237I 332 ALLCCATED TO SYSPRINT
IEF237I 231 ALLCCATED TO SYSPRINT
IEF237I 232 ALLCCATED TO SYSPRINT
IEF237I 0C4 ALLCCATED TO FT08F001

```

IMP-F HOURLY AVERAGED  
PLASMA

06/03/67 - 02/02/67  
ORBIT - 3-45

0-23432  
C-17584

06/03/67

ORBIT - 3

67-051A-08L

RECCRD 1 / OF FILE 1  
LENGTH = 3200 BYTES

154

19

3

7EC40000	00A0C000	0000009A	00000013	00000003	41480000	41D00000	43117000	40AD810A	405E6B9B
C144A61B	4046E960	40F9170E	406007EA	4097EEF0	000000AE	415E1C4C	41217E85	444BF306	437E0A28
C13A3CBE	4148A9E2	40335A63	4015386B	425E50ED	41AF9E70	42AD5613	423E9614	4317C791	42A2BF69
C26FE02A	425A2C0C	4319DF56	41658EAA	0000000F	42208000	C1366666	421FCCCC	C1533333	C21D0000
CC00057F	00A0C000	0000009A	00000014	00000003	41499999	42170000	4311E000	41130453	404D10ED
C140BC77	4053F3CE	4111CF4DB	40442504	4084C803	000000AF	41726A49	40E078DD	445113BD	4410E4DB
431A2A4B	414E4238	403F36C8	3FD45C39	426700B9	419E72E0	42D1865A	42186D64	432DF343	4267639E
C368F25F	4279E2E5	43193879	4186E0B2	00000010	4220B333	C1366666	42201999	C1500000	C21B0000
C000057F	00A0C000	0000009A	00000015	00000003	41499999	42200000	43122000	4115FE9F	4050462E
C13ACD90	4067AF2F	412682F4	405FEF29	40A2794D	000000B0	416884C7	41187BB9	4473A6A1	44872E10
431AAC1C	421EAC33	4039CB65	4013E0A9	426AF35C	41D16F59	42CC7545	423109A1	4340FA15	429C95DF
C361EC02	42DB09EF	4319510C	421F07FE	00000011	4220E666	C1366666	42204CCC	C14E6666	C2180000
CC000580	00A0C000	0000009A	00000016	00000003	41480000	42250000	43126000	41171CE2	406E9FFB
C134422E	408CA6A3	412B39D7	4071CAF8	40CC4C56	C00000B0	4161F7C9	40B94D6E	4455E1ED	4418B64B
431A23A4	414A6780	403CS287	4020701B	426664BB	419F4E2C	4282DA2A	42150EBD	43478007	42C3CFA6
C355A775	42B0E5BC	4318A9F9	41E3CA14	0000000F	42211999	C1366666	42208000	C1483333	C2150000
C000057F	00A0C000	0000009A	00000017	00000003	41433333	42270000	43129000	41163A02	406A882F
C12BES10	40966103	412898D1	4114EBF3	4117B598	000000B0	41633AF2	40F73EAC	4450C887	43FEC842
431A3055	414DF96F	4043F390	40242478	425A826E	41E21FA1	42B5F920	421D12F9	43473087	431C0F09
C348B9EF	42DAD67C	4318C695	418A7638	00000011	42214CCC	C1366666	4220CCCC	C1499999	C2120000
CC00057A	00A0C000	0000009B	00000001	00000003	41399999	42130000	4312C000	411AFFD6	40871C41
C12E6621	4056AAC7	41121E1F	409D4D39	40E08E6F	000000AE	415B275A	41100D62	4467DBBE	443043CD
431A0ECF	4159437F	40670B8C	40233660	4246D130	4189C496	42A5C8D0	421FB5EE	431D0334	43120900
C348D91D	4289ACAF	43167EAF	422B2C8F	00000013	42219999	C1366666	42211999	C1433333	C1D00000
CC00057F	00A0C000	0000009B	00000002	00000003	41419999	422F0000	43113000	403CCEB4	40BE2E2B
C12B36B3	407BCA25	412E37E9	40A728EF	41119D76	000000AA	4161094B	4110708C	4481F1E6	441BF1C5
431932E0	419BCB73	407C75A3	402CC886	425EF7E0	41DFACB2	42A4F07E	421A68CE	4348F159	43102145
C3424889	42F05A99	43189D1D	4178EF7A	00000012	4221B333	C1366666	42213333	C1400000	C1B00000
CC000580	00A0C000	0000009B	00000003	00000003	41499999	42350000	43108000	C043ECBB	407FF750
C12A5691	40742179	41395AD8	4049779D	4088D010	00000082	42A5C35B	407E9B0E	4499D1E8	441B5BA6
4318D206	415C79FA	4066135C	40157491	426FA7EA	4190E581	42957448	41D31B4A	4358FA2C	4276DFB6
C33FC869	42E8E694	43189999	417C31E2	0000000E	4221CCCC	C1366666	42216666	C13E6666	C1B00000
CC000580	00A0C000	0000009B	00000004	00000003	413CCCCC	42380000	4310C000	BFF503FC	40AE116E
C120C7FE	411A2ED8	412FB535	4110C7C0	4120FA83	000000A2	416A52D4	41104D8C	4492C92C	435B5E0D
43190284	4148A9E2	40B661F6	40E45617	425A5313	41D487AE	42B1A7F3	42181F69	434CCABA	42AED937
C32FF1C9	43101C73	43189F3C	417E8DE8	00000011	4221E666	C134CCCC	42218000	C13B3333	C1B00000
CC00057F	00A0C000	0000009B	00000005	00000003	41366666	422E0000	43103000	C06F0595	40B1FC8F

