#156

IMP D + E

HOURLY AVRG B FIELD VECTORS

66-058A-03B

67-070A-03B

Table of Contents

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

HOUR AVG B FIELD VECTORS ON TAPE

66-058A-03B

67-070A-03B

These data sets have 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 a 6600 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
DR005413	DS005413	D007065	1	07/23/67 - 12/15/68

REQ AGENT	RAND NO.	ACQ. AGENT
VJP	RC2561	JHK

IMP D + E

HOURLY AVRG B FIELD VECTORS

66-058A-03B

67-070A-03B

This data set catalog consists of 1 Explorer 33 and 35 Hourly Averaged B Field Vectors data tape. The tape is 800 BPI, EBCDIC, 7 track, 1 File and was made on the IBM 360/75.

The time spans are as follow:

	D-07065	C-05587
IMP-D		1/01/67 - 12/31/69
IMP-E		7/23/67 - 12/31/69

Explorer 33 and 35 Ames Magnotometer Data Description

Hourly averaged interplanetary magnetic field data from the Ames magnetometers on Explorer 33 (Data Set D) and Explorer 35 (Data Set E) for the years 1967, 1968, and 1969 have been placed on magnetic tape in chronological order as EBCDIC card images. The tapes are binary, 7-track, EBCDIC, RECFM=FB,LRECL=80,BLKSIZE=10240 (must use TRTCH=C).

The identification of the contents of each field is as follows:

WORD	FORMAT	IDENTIFICATION
1	I3	Day number of year (January 1 is day 0).
2	I6	The Universal Time hour, minute and second when last telemetry sequence in that hourly average begins (2 characters each).
3	F5.1	Hourly average magnetic field in gammas.
4	F6.1	Hourly average field latitude in degrees (S.E.*).
5	F6.1	Hourly average field longitude in degrees (S.E.).
6	F6.1	Hourly average field Y component in gammas (S.E.).
7	F6.1	Hourly average field Z component in gammas (S.E.).
8	F6.1	Hourly average field latitude in degrees (S.M.*).
9	F6.1	Hourly average field longitude in degrees (S.M.).
10	F6.1	Hourly average field X component in gammas (S.M.).
11	F6.1	Hourly average field Y component in gammas (S.M.).
12	F6.1	Hourly average field Z component in gammas (S.M.).
13	I4	Number of individual vector sample available during hour.
14	F5.1	a) Hourly average magnetic field normal to the earth-sun line in gammas (for data prior to 1969). b) The year (1969 = 69.0) for data after 1968.
15	A3	a) Data group number ID-44D for Explorer 33, IE-22E for Explorer 35 (for data prior to 1969). b) 0D for Explorer 33, 0E for Explorer 35 (for data after 1968).

* S.E. is for solar equatorial coordinate system.
** S.M. is for solar magnetospheric coordinate system.

The solar equatorial coordinate system has the positive X direction towards the sun along the Earth-sun line. The positive Z direction has a northward sense and is in the plane of both the X axis and the sun's spin axis. The Y axis completes a right-handed, orthogonal coordinate system, X Y Z.

The definition of the solar magnetospheric coordinate system is the same as that of the solar equatorial system except that the positive Z direction is northward, parallel to the plane of the X axis and Earth's magnetic dipole, and normal to the X axis.

A description common to the Explorer 33 and Explorer 35 magnetometers is found in the article by Sonett et al. (pp. 461-484) in "Physics of the Magnetosphere", edited by R. L. Carovillano et al., D. Reidel Publishing Co., Dordrecht-Holland, 1968, and also in J. Geophys. Res. 73, 943-959, 1968. The above reference also describe the Explorer 33 orbit. The Explorer 35 orbit is described in Science 158, 1040-1042, 1967.

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xplore s 33 and 35 Ames Magnetometer Data

by Dr. P. J. Fougere

ly average interplanetary magnetic field da from
ters on Explorer 33 and Explorer 35 for the years
been placed on magnetic tape as BCD card
I3, I5, F5.1, 9F6.1, I4, , A3. The id
ats of each field or BCD word is as follows

	Format	Identification
	I3	Day number of year (January 1 is
	I6	The Universal Time hour, minute last telemetry sequence in that begins (2 col each).
	F5.1	Hourly average magnetic field ma
	F6.1	Hourly average field latitude in
	F6.1	Hourly average field longitude in degrees
	F6.1	Hourly average field Y component in
	F6.1	Hourly average field Z component in
	F6.1	Hourly average field latitude in
	F6.1	Hourly average field longitude in degrees
	F6.1	Hourly average field X component in
	F6.1	Hourly average field Y component in
	F6.1	Hourly average field Z component in
	I4	Number of individual vector samples during hour.
	F5.1	Hourly average magnetic field n sun line in
	A3	Data group number -D to 44-D fo 1-E to 22-E for Explorer 35.

for solar equatorial coordinate system.
for solar magnetospheric coordinate system.

solar equatorial coordinate system has the positive
he sun along the earth-sun line. The positive Z d
rd sense and is in the plane of both the X axis and
. The Y axis completes a right-handed, or
Y Z.

The definition of the solar magnetospheric coordinate system is the same as that of the solar equatorial system except that the positive Z direction is northward, parallel to the plane of the X axis and earth's magnetic dipole, and normal to the X axis.

A description common to the Explorer 33 and Explorer 35 magnetometers is found in the article by Sonett et al., "Configuration and Reconnection of the Geomagnetic Tail," Physics of the Magnetosphere, edited by R. L. Carovillano et al., D. Reidel Publishing Co., Dordrecht-Holland, 461-484, 1968. The article is also in J. Geophys. Res., 73, 943-959, 1968. The above references also describe the Explorer 33 orbit. The Explorer 35 orbit is described in Science, 158, 1040-1042, 1967.

Hourly Average Interplanetary Magnetic Field Data: 1967-1968

by [illegible]

Hourly average interplanetary magnetic field data were compiled from the Ames magnetometer aboard Explorer 33 and Explorer 35 spacecraft. Only interplanetary data appear; i.e., hourly averages do not include any data taken in the earth's magnetic tail or anywhere else behind the earth's bow shock and also do not include data taken in the diamagnetic solar wind cavity behind the moon. There are gaps in the data because of these conditions. Explorer 33 data were used where possible; for those time periods where Explorer 33 was behind the earth's bow shock an attempt was made to supplement the data with data from Explorer 35. The latter is characteristically blacked out approximately 2 hours out of every 11.5 because it passes through the diamagnetic cavity once each orbit.

The magnetic tape as produced by the CDC 3600 was blocked according to a format called (in CDC terminology) "BCDIC standard." It may be necessary to recopy this tape on a CDC machine to produce an unblocked BCD tape generally compatible with any machine. The latter format is called "STRANGER" in CDC terminology.

When the number of individual vector samples is given as greater than 1000, the averages given are actually 3-hour averages for the preceding 3 hours (rather than for the preceding 1 hour) from the time given. This occurred mainly for some of the records for days 81-83 and 82-83 of the year 1968.

Due to the method of editing used, in perhaps 15 cases hourly averages for the same hour and the same spacecraft are computed in two different data sets. In a similar number of cases there are Explorer 33 and Explorer 35 records covering the same day and hour. The Ames group appreciates the assistance of Ronald L. Rosenberg of the University of California, Los Angeles, for calling these points to our attention.

The following tabulation indicates the times covered by each data set.

[illegible]

Year [illegible]

	Begin Time Day-Hour	End Time Day-Hour	Tape Number
	[illegible]	[illegible]	1-D
	[illegible]-06	[illegible]	2-D
	[illegible]-23	[illegible]	3-D
	32-17	44-01	4-D
	[illegible]	[illegible]	5-D
	60-03	73-[illegible]	6-D
	[illegible]-23	[illegible]	7-D
	[illegible]4-05	107-04	8-D
	115-[illegible]	120-19	9-D
	[illegible]	132-03	10-D
	[illegible]	[illegible]-13	11-D
	[illegible]-06	133-05	11-D
	133-07	133-[illegible]	11-D
	133-11	133-14	11-D
	134-00	134-06	11-D
	134-17	135-08	12-D
	135-08	135-11	12-D
	137-08	[illegible]	12-D
1E →	146-05	14[illegible]-20	13-D
2E	237-05	237-17	14-D
2E	238-17	239-[illegible]	14-D
2E	240-17	241-14	15-D
2E	242-16	243-05	15-D
3E →	250-23	260-06	16-D
	2[illegible]8-06	281-11	17-D
4E →	281-12	281-15	17-D
5E →	286-01	300-13	18-D
	307-01	322-24	19-D
6E →	326-02	342-02	20-D
7E →	344-21	360-21	21-D
	363-09	*014-2[illegible]	22-D

Year 1968

Begin Time Day-Hour	End Time Day-Hour	Tape Number
[illegible]	032-07	23-D
[illegible]	036-[illegible]	24-D
037-[illegible]	041-23	25-D
042-22	043-[illegible]	25-D
044-[illegible]	045-20	26-D
045-[illegible]	047-1[illegible]	27-D
048-1[illegible]	049-18	28-D
052-19	053-18	29-D
054-1[illegible]	068-18	30-D
071-06	086-16	31-D
089-21	104-09	32-D
108-02	125-07	33-D
130-05	142-03	34-D
149-19	150-03	35-D
150-05	160-19	35-D
172-15	179-02	36-D
194-06	194-16	37-D
254-08	254-15	38-D
255-01	258-09	38-D
265-19	265-23	39-D
266-23	273-23	39-D
281-17	297-17	40-D
303-03	321-19	41-D
321-13	321-17	42-D
321-21	322-02	42-D
322-05	322-05	42-D
322-16	322-22	42-D
326-18	346-07	43-D
349-15	366-24	44-D

*Year 1968

			342-16	357-17	8-E
			358-20	374-23	9-E
			378-24	389-25	10-E
			390-26	395-01	11-E
			396-02	408-09	12-E
			409-10	424-25	13-E
			425-26	441-03	14-E
			442-04	457-13	15-E
			458-14	472-21	16-E
			478-17	485-14	17-E
			486-15	216-00	17-S
			224-11	244-02	18-E
			264-00	267-00	19-E
			297-14	301-22	20-E
			321-01	326-17	21-E
			346-09	349-19	22-E

RECORD 1 OF FILE 1
LENGTH = 10240 BYTES

D-07065
Explorer 33 & 35
33 - 01/01/67 - 12/31/69
35 - 07/23/67 - 12/31/69

0	0592	9bb7	.1bb	b9.5	b104	.9bb	b5.1	bbb0	.9bb
4060F040	F055F0F2	F94040F7	4BF14040	40F94BF5	40F1F0F4	4BF94040	40F54BF1	404040F0	4BF94040
60F44BF1	40F1F0F4	4BF54040	60F14BF3	404040F5	4BF14040	60F04BF4	40F5F4F8	4040F64B	F840F1C4
4060F040	F1F5F9F2	F84C40F6	4BF74040	60F64BF3	4040F9F6	4BF04040	40F54BF7	404060F0	4BF64060
F2F04BF4	4040F9F6	4BF24040	60F04BF6	404040F5	4BF44040	60F24BF0	40F5F8F0	4040F64B	F340F1C4
4060F040	F2F5F9F2	F84C40F8	4BF04C40	40F44BF7	40F1F1F4	4BF44040	40F54BF9	404040F0	4BF54040
60F84BF0	40F1F1F4	4BF54040	60F24BF7	404040F5	4BF84040	60F04BF9	40F5F8F1	4040F74B	F240F1C4
4060F040	F3F5F9F2	F74040F7	4BF84040	60F14BF9	40F1F1F5	4BF34040	40F64BF8	404060F0	4BF24060
F1F44BF6	40F1F1F6	4BF14040	60F34BF2	404040F6	4BF54040	60F14BF9	40F5F5F0	4040F74B	F040F1C4
4060F040	F4F5F2F3	F84040F8	4BF04C40	60F04BF6	40F1F1F5	4BF14040	40F74BF1	404060F0	4BF14060
F1F34BF3	40F1F1F5	4BF74040	60F34BF3	404040F6	4BF94040	60F14BF8	40F4F6F5	4040F74B	F240F1C4
4060F040	F5F5F9F2	F74C40F6	4BF34C60	F2F34BF4	40F1F3F9	4BF24040	40F34BF6	404060F2	4BF44060
F3F24BF2	40F1F4F5	4BFC4040	60F44BF2	404040F2	4BF94040	60F34BF2	40F5F5F0	4040F44B	F740F1C4
4060F040	F6F5F9F2	F64C40F4	4BF64C40	40F34BF3	4CF1F1F4	4BF34040	40F34BF9	404040F0	4BF24C40
60F94BF5	40F1F1F4	4BF54040	60F14BF8	404040F3	4BF94040	60F04BF7	40F5F7F7	4040F44B	F140F1C4
4060F040	F7F4F8F3	F24040F5	4BF54C60	F2F64BF0	40F1F6F3	4BF54040	40F14BF5	404060F2	4BF54060
F2F94BF2	40F1F7F0	4BF74040	60F44BF9	404040F0	4BF84040	60F24BF8	40F4F6F3	4040F34B	F140F1C4
4060F040	F8F5F9F2	F64040F6	4BF34060	F1F94BF1	40F1F7F2	4BF84040	40F04BF7	404060F2	4BF04060
F2F04BF3	40F1F7F7	4BF84040	60F54BF8	404040F0	4BF24040	60F24BF1	40F5F6F6	4040F24B	F340F1C4
4060F040	F9F5F9F2	F54040F6	4BF34060	F2F84BF0	40F1F8F1	4BF74040	60F04BF2	404060F2	4BF94060
F2F64BF7	40F1F8F9	4BFC4040	60F54BF5	404060F0	4BF94040	60F24BF8	40F5F7F4	4040F34B	F040F1C4
4060F0F1	F0F5F9F2	F54040F6	4BF44C60	F3F64BF5	40F1F3F7	4BF64040	40F34BF0	404060F3	4BF24060
F4F54BF3	40F1F4F7	4BF54040	60F34BF2	404040F2	4BF14040	60F34BF9	40F4F7F3	4040F54B	F240F1C4
4060F0F1	F1F5F9F2	F54040F8	4BF64060	F2F84BF7	40F1F2F9	4BF24040	40F54BF4	404060F3	4BF84060
F3F94BF3	40F1F3F5	4BFE4040	60F44BF4	404040F4	4BF24040	60F54BF0	40F5F7F6	4040F74B	F340F1C4
4060F0F1	F2F5F9F2	F44C40F9	4BF84060	F4F44BF3	40F1F5F4	4BF34040	40F24BF8	404060F6	4BF44060
F4F84BF8	40F1F6F8	4BF14040	60F54BF9	404040F1	4BF24040	60F64BF6	40F6F7F4	4040F74B	F640F1C4
4060F0F1	F3F5F9F2	F44CF1F0	4BF34C60	F2F34BF5	40F1F4F7	4BF94040	40F44BF4	404060F3	4BF64060
F2F94BF1	40F1F5F2	4BF54040	60F74BF0	404040F3	4BF64040	60F44BF4	40F5F6F0	4040F74B	F240F1C4
4060F0F1	F4F5F9F2	F44CF1F0	4BFC4060	F6F44BF3	40F1F7F9	4BF14040	40F04BF1	404060F8	4BF64060
F6F24BF8	40F1F9F8	4BF34040	60F44BF1	404060F1	4BF44040	60F84BF5	40F5F6F6	4040F84B	F940F1C4
4060F0F1	F5F5F9F2	F34040F9	4BF24060	F4F34BF1	40F1F4F5	4BF34040	40F34BF7	404060F6	4BF24060
F4F64BF7	40F1F5F1	4FF14040	60F54BF4	404040F3	4BF04040	60F64BF5	40F5F5F3	4040F74B	F440F1C4
4060F0F1	F6F5F9F2	F34C40F6	4BF24060	F2F54BF4	40F1F3F0	4BF04040	40F44BF0	404060F2	4BF54060
F2F74BF7	40F1F3F0	4BF84040	60F34BF3	404040F3	4BF94040	60F24BF7	40F6F7F2	4040F54B	F040F1C4
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F2F64BF3	40F1F0F1	4BF34040	60F14BF7	404040F8	4BF34040	40F44BF2	40F5F6F4	40F1F04B	F240F1C4
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F6F24BF0	4040F5F5	4BF84040	40F24BF2	404040F3	4BF24040	40F74BF4	40F5F5F9	4040F94B	F340F1C4
4060F0F2	F0F5F9F2	F14040F9	4BF24040	F1F34BF9	4CF2F7F8	4BF34040	60F44BF8	404040F1	4BF24C40
40F54BF8	40F2F7F8	4BFC4040	40F04BF7	404060F4	4BF94040	40F04BF5	40F4F6F1	4040F84B	F540F1C4
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4060F0F2	F2F5F9F2	F14CF1F0	4BF24C40	F2F94BF7	4CF2F8F2	4BF44040	60F84BF5	404040F4	4BF94C40
F1F94BF6	40F2F8F1	4BF34040	40F14BF3	404060F9	4BF24040	40F34BF3	40F5F7F7	4040F94B	F940F1C4
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F1F14BF5	40F2F6F2	4BF14040	60F14BF3	404060F9	4BF04040	60F14BF9	40F5F7F2	4040F94B	F540F1C4
4040F140	F0F5F9F2	F04C40F8	4BF44040	F1F44BF5	4CF2F6F4	4BF94040	60F84BF0	404040F2	4BF14040
40F44BF7	40F2F6F4	4BF54040	60F04BF7	404060F8	4BF24040	40F04BF7	40F5F7F2	4040F84B	F340F1C4
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40F54BF6	40F2F6F9	4BF54040	60F04BF1	404060F6	4BF44040	40F04BF6	40F4F7FC	4040F74B	F640F1C4
4040F140	F5F5F9F1	F84C40F7	4BF14C40	60F84BF0	4CF2F6F7	4BF64040	60F64BF6	404060F0	4BF94040
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F1F64BF3	40F2F9F4	4BFC4040	40F24BF7	4C4060F6	4BF04040	40F14BF9	40F5F8F3	4040F64B	F640F1C4
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RECORD 184 OF FILE 1
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364

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F3F6F4F2	F0F5F9F1	FC4C40F5	4BF24060	F5F548F4	40F1F9F7	4BF14040	60F04BF6	404060F3	4BF04060

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F3F64BF6  40F1F3F7  4BF24040  60F14BF2  404040F1  4BF14040  60F04BF5  40F6F0F0  40F6F94B  F0F0F0C4
F3F6F4F2  F3F5F940  F94C40F3  4BF54C40  60F84BF5  4CF1F4F5  4BF94040  40F14BF7  404060F0  4BF54040
60F24BF7  40F1F4F5  4BFC4040  60F24BF5  404040F1  4BF84040  60F04BF1  40F4F2F6  40F6F94B  F0F0F0C5
40F9ABF3  40F1F2F3  4BF24040  60F1ABF8  404040F2  4BF74040  40F04BF5  4040F4F0  40F6F94B  F0F0F0C5
```

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184 RECORDS IN FILE 1 OF TAPE

```
IEC209I YZJRJJJ5 Y0907  CC1 TR=001,TW=000,EG=000,CL=000,N=000,SIO=00186
IEF142I - STEP WAS EXECUTED - COND CODE 0000
IEF285I    SYS75153.T140033.RV000.YZJRJJJ5.LODMOD          PASSED
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75153.T140033.RV000.YZJRJJJ5.S0000913        SYSIN
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75153.T140033.RV000.YZJRJJJ5.S0000913        DELETED
IEF285I    VOL SER NOS= K3SCR2.
IEF285I    SYS75153.T140033.SV000.YZJRJJJ5.P0000909        SYSOUT
IEF285I    VOL SER NOS= K3SCR4.
IEF285I    SYS75153.T140033.SV000.YZJRJJJ5.P0000910        DELETED
IEF285I    VOL SER NOS= K3SCR4.
IEF285I    SYS75153.T140033.SV000.YZJRJJJ5.R0000911        DELETED
IEF285I    VOL SER NOS= K3SCR4.
IEF285I    SYS75153.T140033.RV000.YZJRJJJ5.R0000912        KEPT
IEF285I    VOL SER NOS= YC9C7 .
IEF280E K 0C1,Y0907 ,YZJRJJJ5,GO
IEF373I STEP /GO        / START 75153.1953
IEF374I STEP /GO        / STOP  75153.2007 CPU   0MIN 02.24SEC MAIN 186K LCS    0K
- STEP 02 -      RETURN CODE = 0000                    STEP TIME =      .12 MINS=(CPU=      .03,IO=      .09)
                                  IO IN SECS. DISK=     1.65,DRUM=      .36,TAPE=     3.77,CELL=      .00,OTHR=      .13
IEF285I    SYS75153.T140033.RV000.YZJRJJJ5.LODMOD          DELETED
IEF285I    VOL SER NOS= K3SCR2.
IEF375I  JOB /YZJRJJJ5/ START 75153.1952
IEF376I  JOB /YZJRJJJ5/ STOP  75153.2007 CPU   0MIN 03.41SEC
-  SYSTEM=MVT-21 (11-21-73)   K3                                          TIME=20.07.45.93 DATE=06-02-75
- JOB 0388-                                          TOTAL TIME =      .32 MINS=(CPU=      .05,IO=      .27)
                                  IO IN SECS. DISK=    12.07,DRUM=      .92,TAPE=     3.77,CELL=      .00,OTHR=      .31
 THERE WERE 01 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE WAS 00.0 MINUTES.
```