

#346

IMF-GSM

DATA BOOK TAPE

SM-12B

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

REQ. AGENT
VJP

RAND NO.
RC6127

ACQ. AGENT
CHK

IMF-GSM

DATA BOOK TAPE

SM-12B

This data set catalog consists of 1 IMF-GSM DATA BOOK TAPE. The tape is 9 trk, 1600, bin and containing 1 file. The tape was created on an IBM/360 Computer.

The time span is as follows:

D#
D-23754

C#
C-17878

TIME SPAN
11/27/63 - 05/14/74

IMF-GSM DATA BOOK TAPE

FORMAT

The GSM-IMF Data Book Tape is an unlabeled, 9-track, 1600 BPI binary tape created on an IBM/360 computer. Each logical record consists of 13 INTEGER*2 words (LRECL=26), and each physical record consists of 100 logical records (BLKSIZE=2600). The record format is fixed block (RECFM=FB). The first logical record on the tape is a summary record, followed by data records for each hour of the day. A new summary record is written at the beginning of each 27-day solar rotation period. The tape covers the period 11/27/63 - 05/14/74 with the spacecraft position and average field vector in the GSM coordinate system. All words in data records for hours for which no data exists are filled with zeros. Note that not all data words are available for all spacecraft. The meaning of the words are as follows (with 10ths of earth radii for spacecraft ephemeris words and 10ths of gammas for field magnitudes, components, and standard deviations):

<u>WORD NUMBER</u>	<u>SUMMARY RECORD</u>	<u>DATA RECORD</u>
1	A negative number (for record identification purposes) the absolute value of which is Bartels solar rotation number	Year (63,64,etc)
2	The number of hours in this solar rotation period for which there are data	Day (Jan 1 = day 0)
3	Year of beginning of solar rotation period (63,64,etc)	Hr (0,1,...23)
4	Day of beginning of solar rotation period (Jan 1 = day 0)	X Spacecraft x position in GSM
5	Year of end of solar rotation period	Y Spacecraft y position in GSM
6	Day of end of solar rotation period	Z Spacecraft z position in GSM
7	Minimum value of B, average field magnitude, for this period	B Average field magnitude (12 B) N

WORD NUMBERSUMMARY RECORDDATA RECORD

8	Maximum value of B, average field magnitude, for this period	Bx GSM x component of average vector, $(\sum B_x) / N$
9	Not used (set to zero)	By GSM y component of average field vector
10	Not used (set to zero)	Bz GSM z component of average field vector
11	Not used (set to zero)	σ_B Rms standard deviation in average field magnitude (wd. 7)
12	Not used (set to zero)	σ_B Vector field rms standard deviation
13	Not used (set to zero)	Spacecraft identifier

This tape was created by C. T. Russell by transforming the geocentric solar ecliptic data of the original IMF Data Book tape into geocentric solar magnetospheric coordinates.

0.23754
11/27/83 - 5/14/94
SM-12B

```

XXGO      EXEC PGM=*,LINK,SYSLMCD,COND=(4,LT),REGION=70K                00000230
XXFT05F001 DD DNAME=DATA5                                              00000240
XXFT06F001 DC SYSOUT=ECUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=8BLKSIZE)  00000250
IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
XXFT07F001 DC SYSOUT=E,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80)          00000260
XXSYSPRINT DC SYSOUT=ECUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=8BLKSIZE), 00000270
IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
XX      SPACE=(CYL,(0,1)),UNIT=(DISK,3)                              00000280
//GO.FT08F001 DD UNIT=STRACK,DISP=(CLD,KEEP),LABEL=(01,BLP.,IN),
//      DCB=(BLKSIZE=32000,RECFM=U,DEN=3),
//      VOL=SER=JJ0002
//GO.DATA5 CC *
//

```

```
IEF236I ALLCC. FOR YZJRJJC3 GO
IEF237I 231 ALLCCATED TO PGM=*.DD
IEF237I 232 ALLCCATED TO FTC5F001
IEF237I 332 ALLCCATED TO FTC6F001
IEF237I 332 ALLCCATED TO FTC7F001
IEF237I 331 ALLCCATED TO SYSPRINT
IEF237I 231 ALLCCATED TO SYSPRINT
IEF237I 232 ALLCCATED TC SYSPRINT
IEF237I 0C3 ALLCCATED TO FTC8F001
```

```
RECORD      1  CF  FILE  1
LENGTH =    2600  BYTES
```

[illegible]

