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MAGSAT

LOW LATITUDE SCALAR ANOMALY VALUE
79-094A-01M

65S - 65N VECTOR ANOMALY COMPS
79-094A-02T

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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inventory information is now no longer maintained in the DSCs, but is now managed in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

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE

9-TRACK, 1600 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 ORIGINAL TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED

ON THE MRS SYSTEM. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING

D NUMBER IS AS FOLLOWS:

DR#	DS#	D#	FILES
DR005285	DS005285	D047285	1

MAGSAT

LOW LATITUDE SCALAR ANOMALY VALUE

79-094A-01M

This data set consists of 1 data tape. This tape is 1600 BPI, 9 track, EBCDIC with one file of data. The tape was created on the IBM 360 computer. The D and C numbers are as follows:

D#   C#

D-47285   C-22067

January 19, 1982

MAGSAT LOW-LATITUDE SCALAR ANOMALY VALUE TAPE

Version 1, Relative to MGST(4/81) Spherical Harmonic Model. January 8, 1982.

Original Tape: OF 7527

FORMAT SPECIFICATIONS:
    NON LABELED,9track 1600 BPI
    DCB = (RECFM = FB, LRECL = 80, BLKSIZE = 800, DEN = 3)

CONTENTS:

READ (5,100) ALAT, ALON, AN, DB, ALT, SIG, CON, S
100 Format (8F10.4)

-   Obtains <u>one</u> 2° by 2° average scalar anomaly value

-   Where:
        ALAT: <u>Geocentric</u> Latitude ⎫ center of
        ALON: <u>Longitude</u>   ⎬ 2° x 2° area
        AN :   # of points in 2° x 2° average
        DB :   Average scalar anomaly value
        ALT :   Average altitude
        SIG :   Standard Deviation
        CON :   Standard Error of the mean
        S :   Spare (unused)

```
$ASS IN MT1
$EXE TPLIST BS

INPUT PARAMETERS ARE:    ED FL=3=3

TAPE NO.    1              FILE NO.    1
RECORD   1                LENGTH   800
  -50.0000       0.0      20.0000     3.8128    423.1992     4.4541     0.996099999.0000   -50.0000      2.000
0    18.0000       0.5111   421.8931      3.6449      0.859199999.0000   -50.0000     4.0000    23.0000      2.56
18    430.5181      3.7286      0.777599999.0000   -50.0000     6.0000    18.0000     1.8285   415.6279      3.9
929     0.941199999.0000   -50.0000     8.0000    20.0000     2.1950   407.3618     2.6312     0.588499999.
.0000   -50.0000    10.0000    18.0000     2.2404   413.9573     2.4640     0.580899999.0000   -50.0000     12
2.8374   405.1272      3.4467      0.790799999.0000   -50.0000    16.0000    22.0000     1.7005   438.3879
2.7673      0.590099999.0000   -50.0000    18.0000    24.0000     2.6934   412.0269     3.3274     0.679299
999.0000

TAPE NO.    1              FILE NO.    1
RECORD   2                LENGTH   800
  -50.0000      20.0000    20.0000     0.6765    432.2517     3.1158     0.696799999.0000   -50.0000     22.000
0    20.0000      -0.8610   432.6277      3.4950      0.781599999.0000   -50.0000    24.0000    17.0000     -2.12
53    426.9084      3.8800      0.941099999.0000   -50.0000    26.0000    20.0000    -3.9124   419.3650      3.8
404     0.858799999.0000   -50.0000    28.0000    20.0000    -2.4933   436.8601     4.0035     0.895299999.
0000   -50.0000    30.0000    19.0000    -3.4236   413.0251     4.1992     0.963499999.0000   -50.0000     32
.0000    17.0000      -1.8327   417.0596      3.5219      0.854299999.0000   -50.0000    34.0000    21.0000     -
2.3255   430.0151      2.9979      0.654299999.0000   -50.0000    36.0000    16.0000    -2.0638   382.5713
2.5029     0.625799999.0000   -50.0000    38.0000    20.0000    -1.6052   443.3689     2.6598     0.594799
999.0000

TAPE NO.    1              FILE NO.    1
RECORD   3                LENGTH   800
  -50.0000      40.0000    22.0000    -1.7168    428.7981     2.2242     0.474299999.0000   -50.0000     42.000
0    16.0000      -2.4504   411.2002      2.1499      0.537599999.0000   -50.0000    44.0000    20.0000     -3.78
82    428.8406      3.0283      0.677199999.0000   -50.0000    46.0000    19.0000    -5.8822   427.1887      3.1
343     0.719199999.0000   -50.0000    48.0000    21.0000    -8.0178   420.7122     2.6971     0.588699999.
0000   -50.0000    50.0000    24.0000    -7.5068   417.0618     2.3897     0.487899999.0000   -50.0000     52
.0000    17.0000      -6.8666   406.0293      3.4249      0.830799999.0000   -50.0000    54.0000    22.0000     -
6.5420   403.6897      4.8261      1.028999999.0000   -50.0000    56.0000    17.0000    -5.8822   413.4133
3.5594     0.863399999.0000   -50.0000    58.0000    24.0000    -5.2676   429.6816     4.3251     0.882999
999.0000

TAPE NO.    1              FILE NO.    1
RECORD   922              LENGTH   800
   50.0000     320.0000    22.0000    -6.5643    369.4958     2.8807     0.614299999.0000    50.0000    322.000
0    18.0000      -4.4754   380.3984      2.9530      0.696099999.0000    50.0000   324.0000    23.0000     -4.00
81    389.0247      2.7365      0.570699999.0000    50.0000   326.0000    18.0000    -2.6757   384.8826      2.5
759     0.607199999.0000    50.0000   328.0000    19.0000    -1.0849   399.7905     2.5638     0.588299999.
0000    50.0000   330.0000    21.0000    -2.9195   371.6702     3.0289     0.661099999.0000    50.0000    332
.0000    25.0000      -2.2246   374.1089      3.3051      0.661099999.0000    50.0000   334.0000    19.0000     -
0.7413   389.2327      2.4716      0.567099999.0000    50.0000   336.0000    22.0000    -1.9206   374.9121
2.7340     0.582999999.0000    50.0000   338.0000    25.0000     0.5857   402.7510     2.4220     0.484499
999.0000

TAPE NO.    1              FILE NO.    1
RECORD   923              LENGTH   800
   50.0000     340.0000    15.0000     0.7586    397.3850     1.6001     0.413299999.0000    50.0000    342.000
0    24.0000       0.8325   407.7896      2.2669      0.462799999.0000    50.0000   344.0000    15.0000      1.72
23    409.0171      2.3914      0.617499999.0000    50.0000   346.0000    25.0000     1.2078   373.4338      2.6
557     0.531199999.0000    50.0000   348.0000    17.0000    -0.3108   386.4072     2.9027     0.704099999.
0000    50.0000   350.0000    18.0000    -2.3779   397.3306     2.6254     0.618899999.0000    50.0000    352
.0000    22.0000      -3.4424   375.5967      3.9716      0.846899999.0000    50.0000   354.0000    22.0000     -
2.2132   377.9102      2.5327      0.540099999.0000    50.0000   356.0000    21.0000    -2.4441   373.6719
1.7890     0.390499999.0000    50.0000   358.0000    23.0000    -3.4354   379.4431     1.9262     0.400499
```

999.0000

```
TAPE NO.    1            FILE NO.    1
RECORD    924            LENGTH   80
   50.0000  360.0000   16.0000   -3.3252   406.8567    1.5906    0.397699999.0000
```

***** JOB DONE.
$WEO LPS

$$

MAGSAT

65S - 65N VECTOR ANOMALY COMPS

79-094A-02T SPMS-00457

This data set consists of one tape with four files, the first three being data files, and the last a documentation file. The tape is 6250 bpi, EBCDIC and was created on an IBM 3101. The 'D' number and 'C' number follow.

D-74943   C-26396

Listing of File 4 of tape

```
//XRMEPRD7 JOB (F8002,X22,2),'PURUCKER',TIME=(0,20),
//      CLASS=A,NOTIFY=XRMEP,MSGCLASS=X,REGION=2000K
/*JOBPARM LINES=100
//*
//*     JCL + FORTRAN = LIB.CNTL(READ7)
//*     READS MAGSAT VECTOR DATA AND WRITES OUT X,Y,OR Z
//*     COMPONENT DATA AND TO HARD COPY.
//*     THIS DATA FORMS THE BASIS FOR THE DELTA X, Y, AND Z
//*     PLOTS WHICH APPEAR IN THE GRL SPECIAL ISSUE
//*       FILE 1 ON DTO142 CONTAINS THE DELTA X DATA
//*       FILE 2 ON DTO142 CONTAINS THE DELTA Y DATA
//*       FILE 3 ON DTO142 CONTAINS THE DELTA Z DATA
//*       FILE 4 ON DTO142 CONTAINS THIS PROGRAM
//*
// EXEC FORTVCLG
//FORT.SYSIN DD *
      REAL*4  LAT,LON
      READ(12,30) IMIN,IMAX,JMIN,JMAX
  30  FORMAT(4I10)
      WRITE(6,31) IMIN,IMAX,JMIN,JMAX
  31  FORMAT(1X,4I10)
      WRITE(6,39)
  39  FORMAT(//,6X,'LATITUDE',5X,'LONGITUDE',5X,'COMPONENT VALUE',//)
      DO 333 I=JMIN,JMAX
      DO 334 J=IMIN,IMAX
      READ(12,40) LAT,LON,DC
  40  FORMAT(3F10.2)
      WRITE(6,335) LAT,LON,DC
 335  FORMAT(1X,3F15.2)
 334  CONTINUE
 333  CONTINUE
      END
//LKED.SYSLIB DD
//*0.FT12F001 DD DUMMY
//GO.FT12F001 DD DISP=(OLD,KEEP),UNIT=(6250,,DEFER),
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=6400),
//    LABEL=(1,NL,,IN),VOL=SER=DTO142
// EXEC NTSO
```