

#359

MARINER 10

HR. AVG. INTERPLANETARY MAG FIELD VECTORS

73-085A-04C

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

MARINER 10

HR AVG INPL MAG VECTORS ON TAPE

73-085A-04C SPHE-00084

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in EBCDIC. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a MODCOMP 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
-----	-----	-----	-----	-----
DR005321	DS005321	D025191	1	11/03/73 - 09/18/74

REQ. AGENT

REQ. NO.

ACQ. AGENT

CMP
PAR

RC6807

JHK

MARINER 10

HOURLY AVERAGED INTERPLANETARY MAGNETIC FIELD VECTORS

73-085A-04C

THIS DATA SET CATALOG CONSISTS OF ONE 9 TRACK, 1600 BPI, EBCDIC, TAPE
CREATED FROM CARD IMAGES ON THE MODCOMP IV COMPUTER. THE RECORDS ARE BLOCKED
WITH 80 CARD IMAGES PER BLOCK. THE TIME SPAN FOR THE DATA WITH THE D AND
C NUMBERS ARE AS FOLLOW:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-25191	C-18426	11/3/73-9/18/74

Mariner 10 Magnetic Field
Hourly Average Card Format

<u>Item</u>	<u>Cols.</u>	<u>Format</u>	<u>Quantity Name</u>
1.	1-2	A2	Coordinate system SQ=SEQ (See GSFC document X-692-76-208 for definition of SEQ system)
2.	3-7	I5	R-Heliocentric radial distance in AU
3.	8-12	I5	X S/C position (SEQ) in AU
4.	13-17	I5	Y S/C position (SEQ) in AU
5.	18-22	I5	Z S/C position (SEQ) in AU

Note: Items 2-5 have been multiplied by 10,000.

6.	23-24	I2	Year (73, 74, or 75)
7.	25-27	I3	Decimal day of the year (Jan. 1 = day 0).
8.	28-29	I2	Hour (0-23)
9.	30-34	F5.1	Fl=Field Magnitude N $F_l = \sum_{i=1} F_i/N$
10.	35-39	F5.1	θ =SEQ elevation angle of field vector (<u>+</u> 90°)

11.	40-44	F5.1	ϕ -SEQ azimuth angle of field vector (0-360°)
12.	45-49	I5	N=Count of 42-sec averages included in the hourly average.
13.	50-54	F5.2	σ_c =Pythagorean mean field component rms deviation $\sigma_c = (\sigma_x^2 + \sigma_y^2 + \sigma_z^2)^{\frac{1}{2}}$
14.	55-59	F5.1	σ_F =rms deviation of 42 sec F1 values over the hour.
15.	60-64	F5.1	X component rms (SEQ)
16.	65-69	F5.1	Y component rms (SEQ)
17.	70-74	F5.1	Z component rms (SEQ)
18.	75-79	F5.1	$F2 = (\langle BX \rangle^2 + \langle BY \rangle^2 + \langle BZ \rangle^2)^{\frac{1}{2}}$
19.	80	A1	S/C ID = M for Mariner 10

INPUT PARAMETERS ARE: ED FL=1=1

TAPE NO.	1	FILE NO.	1
RECORD	1	LENGTH	6400
SQ 9918-5850-7977	7097330614	11.9 62.5195.0	84 4.92 2.9 2.9 2.4 3.2 10.8MSQ 9918-5926-7921
7087330615	6.3 56.3108.9	86 3.41 2.3 1.3 1.5 2.8 5.7MSQ 9918-6003-7863	7087330616 5.8 43.
4 96.5	86 1.42 1.1 0.6 2.8 1.4 5.8MSQ 9918-6079-7804	7087330617 4.5 45.0112.5	86 1.85 1
2 1.1 1.0	1.1 4.2MSQ 9918-6155-7745	7087330618 4.2 33.3356.6	85 1.81 1.7 1.5 0.4 0.9
4.2MSQ 9918-6229-7685	7077330619 4.3 70.3 83.2	86 2.41 1.7 0.7 1.6 1.6 3.9MSQ 9918-6303-76	
25 7077330620	5.5 38.0 21.3 83 1.78 0.9 0.9 1.1 1.1 5.3MSQ 9918-6377-7563	7077330621 6.7	
17.8359.7	85 2.69 0.8 0.5 1.8 1.0 6.3MSQ 9918-6450-7501	7077330622 6.4 -1.6300.4	86 2.5
2 0.5 1.0 0.8 2.1	5.9MSQ 9918-6522-7438	7067330623 7.0-29.7321.0	86 1.33 0.4 0.7 0.8 0
8 6.9MSQ 9918-6594-7375	70673307 0 7.5 -6.7322.4	86 3.17 0.5 1.2 1.4 2.6 6.7MSQ 9918-666	
5-7311 70673307 1	7.3 5.7344.3 85 3.37 1.7 1.7 1.7 2.3 6.7MSQ 9918-6735-7246	70673307 2	
8.2 -3.6331.1	86 1.13 0.4 0.6 0.7 0.6 8.1MSQ 9918-6807-7178	70573307 3 8.0 5.5327.6	72
2.39 1.2 1.1 1.2 1.7	7.7MSQ 9918-6875-7114	70573307 4 7.8 17.2315.3	85 2.93 1.2 1.3 1.
6 2.1 7.3MSQ 9918-6943-7047	70573307 5 8.8 21.8228.0	85 2.55 0.5 1.2 1.3 1.8 8.5MSQ 9918	
-7069-6981 70473307 6	8.8 -3.9301.5 71 1.39 0.2 0.5 0.5 1.2 8.7MSQ 9918-7179-6911	7047330	
7 7 8.8-18.0314.0	85 0.93 0.2 0.6 0.4 0.6 8.7MSQ 9918-7145-6843	70473307 8 8.7-24.5320.8	
85 1.20 0.2 0.6 0.9 0.5	8.6MSQ 9918-7211-6773	70473307 9 8.5-28.0323.8	86 1.07 0.2 0.7
0.7 0.4 8.4MSQ 9918-7277-6703	7037330710 8.6-28.5307.8	86 2.76 0.3 1.8 2.0 0.7 8.1MSQ	
9918-7341-6632 7037330711	8.3 17.7313.1 85 7.03 1.1 1.6 4.9 4.8 4.5MSQ 9918-7405-6561	703	
7330712 7.4-26.1 67.5	86 4.02 0.7 0.9 1.3 3.7 6.2MSQ 9918-7468-6489	7027330713 10.1 32.4 5	
0.8 86 3.11 0.4 0.8 2.1 2.2	9.6MSQ 9918-7531-6416	7027330714 10.6 57.4 20.7	86 1.98 0.3
0.7 1.8 0.6 11.4MSQ 9919-7592-6343	7027330715 9.7 44.1 7.2	85 2.31 0.5 1.2 1.3 1.4 9.4	
MSQ 9919-7653-6270 7027330716	8.2 6.8 28.8 85 4.84 0.9 1.4 1.3 4.4 6.6MSQ 9919-7714-6195		
7017330717 7.1-55.5340.5	86 1.85 0.6 1.1 1.3 0.8 6.8MSQ 9919-7774-6120	7017330718 7.8-46	
2 16.5 86 4.16 0.9 1.2 3.0 2.6	6.6MSQ 9919-7833-6044	7017330719 7.5-26.7 46.6	85 1.96
1.4 1.3 1.0 1.1 7.2MSQ 9919-7891-5968	7007330720 7.3-53.9 39.9	86 4.21 1.0 0.9 4.3 1.0	
6.1MSQ 9919-7948-5891 7007330721	8.4 38.2 75.5 84 5.21 0.8 0.9 3.2 4.0 6.6MSQ 9919-8005-5		
814 7007330722 8.9 53.4 81.6	85 1.81 0.6 0.9 0.9 1.3 8.7MSQ 9919-8061-5737	6997330723 7.	
7 55.2 89.9 86 3.91 1.3 1.3 3.4 1.6	6.7MSQ 9919-8116-5658	69973308 0 7.4 40.1 16.2	86 5.
74 1.0 3.3 4.3 1.9 4.7MSQ 9919-8170-5579	69973308 1 6.7-12.5315.9	86 3.99 1.3 2.5 2.2	
2.2 5.5MSQ 9919-8223-5501 69973308 2	11.8 -1.5284.9 81 1.97 0.6 0.7 0.7 1.7 11.6MSQ 9919-82		
77-5420 69873308 3 10.7 5.9301.1	86 4.30 0.8 1.9 2.4 3.0 9.7MSQ 9918-8329-5340	69873308 4	
12.1 15.3301.0 86 2.35 0.5 1.3 1.1 1.6 11.8MSQ 9918-8380-5259	69873308 5 11.3 17.8303.0	8	
5 3.78 0.9 1.6 1.3 3.2 10.6MSQ 9918-8432-5175	69773308 6 10.8 -4.9301.4	78 5.93 1.4 4.1 2	
4 3.6 9.0MSQ 9918-8480-5096 69773308 7	9.9-69.6249.2 86 7.60 0.9 5.4 3.8 3.7 6.3MSQ 991		
8-8530-5013 69773308 8 11.2 -2.1310.7	86 5.39 0.5 2.1 1.4 4.8 9.9MSQ 9918-8578-4931	696733	
08 9 10.1 -8.5305.9 85 4.61 0.4 1.9 1.1 4.0	9.0MSQ 9918-8625-4847	6967330810 12.9-17.6309.8	
8612.19 1.6 3.4 9.2 7.3 4.1MSQ 9918-8671-4764	6967330811 12.4 55.2 75.1	86 8.66 1.1 4.	
5 6.2 4.0 8.7MSQ 9918-8717-4680 6967330812	13.7 42.2 35.1 85 2.15 1.1 0.7 1.4 1.5 13.6MSQ		
9918-8762-4595 6957330813 10.9 21.8333.8	85 4.19 0.6 1.0 3.7 1.7 10.1MSQ 9918-8806-4509	69	
57330814 9.4 35.2328.2 70 7.57 1.3 4.4 4.1 4.6	5.6MSQ 9918-8849-4424	6957330815 8.5 22.33	
38.2 86 3.69 1.1 1.1 1.9 3.0 7.7MSQ 9918-8892-4339	6947330816 8.5 34.6347.5	85 6.88 1.1	
3.8 3.8 4.3 5.1MSQ 9918-8933-4252 6947330817	8.9 32.6 9.5 86 4.06 2.1 3.0 2.4 1.4 8.		
1MSQ 9918-8974-4166 6947330818 5.9 4.6 7.4	85 5.28 1.3 2.6 4.0 2.3 2.6MSQ 9918-9014-4079		
6937330819 6.3 17.3332.4 85 2.73 0.4 1.0 1.6 2.0	5.7MSQ 9918-9053-3992	6937330820 5.4	
2.9348.3 86 3.60 0.9 0.9 2.5 2.4 4.1MSQ 9918-9091-3903	6937330821 5.3 -9.3351.8	86 2.79	
0.5 1.0 1.8 1.9 4.4MSQ 9918-9129-3815	6927330822 5.3 3.4337.6	86 3.36 0.5 2.3 1.2 2.1	
4.1MSQ 9918-9165-3726 6927330823 4.7 -2.1352.9	85 0.94 0.1 0.2 0.9 0.3 4.6MSQ 9918-9201-		
3638 69273309 0 4.8 9.2 8.6 86 0.39 0.1 0.1 0.3 0.3	4.8MSQ 9918-9236-3548	69273309 1 4	
8 -5.6355.1 86 0.67 0.3 0.3 0.5 0.3 4.8MSQ 9918-9269-3459	69173309 2 5.3 -6.4355.2	85 1	
0.3 0.1 0.2 1.0 0.3 5.2MSQ 9918-9302-3369	69173309 3 5.4 -4.5339.7	86 1.18 0.2 0.2 0.3	
1.1 5.3MSQ 9918-9335-3279 69173309 4 5.5 5.4336.1	86 1.20 0.2 0.3 0.7 0.9 5.3MSQ 9918-9		
366-3188 69073309 5 5.2 0.1327.7 86 2.30 0.5 1.1 1.5 1.3	4.7MSQ 9918-9396-3097	69073309	
6 5.3-24.3318.9 85 2.65 0.9 1.1 1.1 2.1 4.7MSQ 9918-9424-3012	69073309 7 5.5 39.7335.4		
70 1.89 0.9 0.6 1.2 1.4 5.3MSQ 9918-9455-2914	68973309 8 6.0 33.4342.3	84 2.29 0.3 0.6	
1.6 1.5 5.5MSQ 9918-9482-2823 68973309 9 5.7-15.0319.1	85 1.68 0.2 0.9 0.9 1.1 5.4MSQ 99		
18-9509-2732 6897330910 5.6-26.7316.1	86 2.01 0.3 0.8 1.3 1.4 5.2MSQ 9918-9535-2639	68873	
30911 5.4 -7.7309.4 86 1.71 0.2 0.8 0.9 1.2 5.1MSQ 9918-9560-2546	6887330912 5.6 -5.5331.		
5 86 1.53 0.3 0.7 0.6 1.2 5.4MSQ 9917-9584-2454	6887330913 5.7 12.2332.3	85 1.70 0.7 1	
1 0.6 1.1 5.5MSQ 9917-9607-2361 6877330914 4.4-18.8300.4	86 2.27 0.3 1.2 0.9 1.7 3.7MS		
4 9917-9630-2268 6877330915 5.0-17.2321.8	86 2.34 0.4 1.0 0.9 1.9 4.4MSQ 9917-9651-2175	6	
877330916 5.9 6.9330.2 85 1.47 0.3 0.7 1.0 0.9	5.7MSQ 9917-9672-2081	6877330917 5.6-41.4	

298.9 86 4.01 0.6 2.5 2.0 2.4 3.9MSQ 9917-9692-1988 6867330918 5.4-27.1294.7 86 3.90 0.
5 2.0 1.9 2.7 3.6MSQ 9917-9710-1893 6867330919 5.9 34.7327.4 86 2.04 0.5 0.8 0.6 1.8 5
.5MSQ 9917-9728-1799 6867330920 5.5 3.5339.7 85 1.32 0.3 0.4 1.0 0.9 5.4MSQ 9917-9745-173
6 6857330921 6.2-13.1319.6 85 2.53 0.2 1.3 1.2 1.8 5.6M

TAPE NO. 1

FILE NO. 1

RECORD 65

LENGTH 1440

SQ 4761-1855-4371 -3497426016 26.2-10.3328.1 8610.70 1.0 3.4 4.9 8.9 24.1MSQ 4759-1889-4354 -
34774260 7 25.1 4.8336.6 8313.26 0.6 6.7 7.6 8.5 20.8MSQ 4758-1923-4338 -34674260 8 24.1 1.
8337.4 8416.87 1.0 5.2 11.7 10.9 16.5MSQ 4756-1956-4321 -34574260 9 24.4 5.3342.0 8515.22 1
0 5.5 8.1 11.7 18.6MSQ 4755-1990-4304 -3447426010 25.1 7.2336.4 7915.04 1.4 7.0 8.3 10.4 1
9.8MSQ 4753-2023-4287 -3437426011 25.4 -1.5337.1 8110.42 0.8 3.1 3.6 9.3 23.2MSQ 4752-2056-42
70 -3427426012 25.6 1.2342.5 77 8.18 0.5 2.7 5.4 5.5 24.4MSQ 4750-2090-4252 -3407426013 24.7
-2.5326.4 7711.90 0.9 5.5 5.5 9.0 21.4MSQ 4749-2123-4234 -3397426014 24.2 -6.4322.4 8311.2
0 1.1 5.1 6.5 7.6 21.0MSQ 4748-2156-4216 -3387426015 24.7-13.2317.3 8615.18 1.1 9.5 6.4 10
0 19.6MSQ 4746-2188-4198 -3377426016 24.5 -5.6340.1 8311.77 0.9 3.6 6.8 8.9 21.7MSQ 4745-222
1-4179 -3367426017 25.3 30.6331.2 7614.79 0.9 11.5 6.2 7.0 19.4MSQ 4743-2253-4160 -3357426018
26.4 1.5336.7 83 8.15 0.9 3.0 6.1 4.5 25.5MSQ 4742-2287-4140 -3337426019 26.4 4.6349.5 69
8.35 0.9 1.8 5.1 6.3 25.4MSQ 4741-2317-4122 -3327426020 27.2 13.1359.8 8311.96 0.7 3.1 7.
8 8.5 24.4MSQ 4739-2349-4102 -3317426021 26.1 10.3350.3 84 7.08 0.6 1.8 5.2 4.4 25.2MSQ 4738
-2381-4083 -3307426022 25.4 4.8341.1 85 6.64 0.6 2.3 3.6 5.1 24.8MSQ 4736-2413-4062 -3297426
023 26.5 9.9335.9 6910.22 0.9 4.1 5.3 7.7 24.2M

***** JOB DONE.

\$WEO LPS

\$1
\$ASS OUT TUI
\$EXE TPDUPC BS