#331

MARINER 10

INFRARED RADIOMETER EXPERIMENT

73-085A-06A

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

MARINER 10

IR RAD. DATA OF MERCURY ON TAPE

73-085A-06A

This data set has been restored. There was originally one 9-track, 1600 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 370 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
DR005434	DS005434	D022835	1 - 2	03/29/74 - 03/29/74

REQ. AGENT	RAND NO.	ACQ. AGENT
WTJ	RC5253	JCL

MARINER 10

INFRARED RADIOMETER EXPERIMENT

73-085A-06A

This data set consists of one Infrared Radiometer Experiment tape that was created on an IBM 370. The tape is 1600 BPI, EBCDIC, 9 track and contains 2 files of data, File 1 contains data from the Mercury Forward Pass and File 2 contains data from the Mercury AFT Pass.

D#	C#	FILES	TIME SPAN
D-22835	C-17438	2	3/29/74
			20 HR 30 MIN TO 20 HR 56 MIN

MVM '73 RDR on magnetic tape: Infrared Radiometer Experiment

Physical characteristics of the tape:

9 track

Density = 1600 bits-per-inch

Record format = Fixed (F)

Blocksize = 92 8-bit characters

Tape character code = Extended Binary Coded Decimal Interchange Code (EBCDIC)

Number of files = 2

This tape was created on an IBM 370-158 computer.

File 1 contains data from the Mercury forward pass. File 2 contains data from the Mercury aft pass. Only data with limb angles $\leq$-3.5 degrees and with $|1.00-\text{FOVC}| \leq 0.10$ are included on this RDR tape. The last entry, immediately preceding the end-of-file mark, in each file contains the S/C GMT time $99^h99^m99.9^s$ to signal the end of the file.

Character No.	Format	Content
1	1X	Blank
2- 4	I3	S/C GMT hours of day for day No.88 in year 1974 (3/29/74)
5- 7	I3	S/C GMT minutes of hour
8-12	F5.1	S/C GMT seconds of minute
13-19	F7.2	Latitude on Mercury in degrees
20-26	F7.2	Longitude on Mercury in degrees
27-32	F6.2	Local time on Mercury in hours
33-38	F6.2	Emission angle in degrees
39-44	F6.0	Slant range to Mercury in kilometers
45-51	F7.2	Limb angle in degrees
52	1X	Blank
53-58	F6.2	Field of view correction (FOVC) for Channel 1
59-64	F6.2	Field of view correction (FOVC) for Channel 2
65-71	F7.1	Net corrected data number for Channel 1
72-78	F7.1	Net corrected data number for Channel 2
79-85	F7.2	Brightness temperature for Channel 1 in degrees Kelvin *
86-92	F7.2	Brightness temperature for Channel 2 in degrees Kelvin *

* -99.00 means measurement off scale (bottom) or measurement was removed because $|1.00 - \text{FOVC}| > 0.10$.

999.00 means measurement off scale (top). If the temperature is off scale the corresponding net corrected data number is not valid.

D-22835

3/29/74

20 hr 30 min 30. Sec to 20 hr 56 min 8 sec

RECORD 1 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F3F040 F3F54BF2 4060F2F1 4B=3F440 F3F5=14B F7F440F1 F94BF1F8 40F1F31B F3F840F8
F4F0F34B 4060F1F0 4BF3F540 4040F04B F1=24040 F04B=9F0 40404040 F04BF140 40=1F3=1 4BF54060
F9F94BF0 F040F1F2 F64BF9F5

RECORD 2 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F3F040 F3F74BF1 4060F2F1 4BF3F440 F3F5=14B F6F340F1 F94BF1F9 40F1F34B F2F740F8
F3F9F04B 4060F1F0 4BF0F940 4040F04B F1=24040 F04B=9F0 40404040 F04BF140 40F1=2=9 4BF94060
F9F94BF0 F040F1F2 F64BF4F2

RECORD 3 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F3F040 F4F44BF3 4060F2F1 4B=3F340 F3F5=04B F9F240F1 F94BF2F4 40F1F24B F6F240F8
F3=1F14B 4060F1F0 4BF3F040 4040F04B F1=24040 F04B=9F1 40404040 F04BF140 40=1F3=1 4BF54060
F9F94BF0 F040F1F2 F64BF9F4

RECORD 4 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F3F040 F4F54BF5 4060F2F1 4B=3F240 F3F5=04B F8F140F1 F94BF2F5 40F1F24B F5F140F8
F2F9F84B 4060F1F0 4BF3F440 4040F04B F1=24040 F04B=9F1 40404040 F04BF140 40F1F3=1 4BF54060
F9F94BF0 F040F1F2 F64BF9F4

RECORD 5 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F3F040 F4F64BF7 4060F2F1 4B=3F240 F3F5=04B F6F940F1 F94BF2F5 40F1F24B F4F040F8
F2F8F54B 4060F1F0 4BF3F840 4040F04B F1=24040 F04B=9F1 40404040 F04BF140 40F1F3=0 4BF64060
F9F94BF0 F040F1F2 F64BF6F5

RECORD 532 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F4F340 40F14BF1 4040F0F3 4B=8F640 F2F7=14B F2=14040 F04BF5F5 40F6F54B F4F040F2
F2F5F54B 4040F0F3 4BF7F040 4040F04B F9=94040 F14B=0F2 40404040 F04BF040 4040F4=8 4BF84060
F9F94BF0 F040F0F9 F44BF5F2

RECORD 533 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F4F340 40F24BF3 404060F3 4B=7F740 F2F7=04B F9F64040 F04BF5F7 40F6F54B F6F640F2
F2F5F24B 404060F3 4BF6F340 4040F04B F9F94040 F14B=0F1 40404040 F04BF040 4040F4=8 4BF74060
F9F94BF0 F04040F9 F44BF5F0

RECORD 534 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F4F340 40F34B=5 404060F3 4B=6F840 F2F7=04B F7=24040 F04BF5F9 40F6F54B F9F240F2
F2F5F04B 404060F3 4BF5F640 4040F04B F9=84040 F14B=0F1 40404040 F04BF040 4040F4=7 4BF74060
F9F94BF0 F04040F9 F34BF9F5

RECORD 535 OF FILE 1
LENGTH = 92 BYTES

4040F2F0 40F4F340 40F44BF7 404060F3 4B=5F840 F2F7=04B F4=74040 F04BF6F0 40F6F74B F1F940F2
F2E4F84B 404060F3 4BF5F040 4040F04B F9F84040 F14B=0F1 40404040 F04BF040 4040F4=7 4BF64060
F9F94BF0 F04040F9 F34BF9F0

RECORD 536 OF FILE 1
LENGTH = 92 BYTES

4040F9F9 40F9F940 F9F94BF9 40404040 40404040 40404040 40404040 40404040 40404040 40404040
40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040 40404040
40404040 40404040 40404040

536 RECORDS IN FILE 1 OF TAPE

RECORD 1 OF FILE 2
LENGTH = 92 BYTES

4040F2F0 40F4F640 F4F04BF7 404060F9 4B=9F740 F2F8=74B F5F740F2 F34BF4F6 40F7F04B F9F140F1
F3=4F74B 404060F3 4BF7F140 4040F14B F0=54040 F14B=0F3 40404040 F04BF040 4040F5=9 4BF94060
F9F94BF0 F040F1F0 F44BF3F6

RECORD 2 OF FILE 2
LENGTH = 92 BYTES

4040F2F0 40F4F640 F4F14B=9 404060F9 4B=7F640 F2F8=64B F9F640F2 F34BF5F0 40=7F04B F2F740F1
F3F3F24B 404060F3 4BF9F540 4040F14B F0=44040 F14B=0F2 40404040 F04BF040 4040F5=9 4BF74060
F9F94BF0 F040F1F0 F44BF2F7

RECORD 3 OF FILE 2
LENGTH = 92 BYTES

```
4040F2F0  40F4F640  F4F34BF1  404060F9  4BF5F640  F2F8F64B  F3F640F2  F34BF5F4  40F6F94B  F6F540F1
F3F1F74B  404060F4  4BF1F940  4040F14B  F0F44040  F14BF0F2  40404040  F04BF040  4040F5F8  4BF54060
F9F94BF0  F040F1F0  F34BF7F4
```

RECORD 4 OF FILE 2
LENGTH = 92 BYTES

```
4040F2F0  40F4F640  F5F04BF3  404060F8  4BF4F340  F2F8F34B  F1F140F2  F34BF7F6  40F6F64B  F2F440F1
F2F4F14B  404060F5  4BF6F140  4040F14B  F0F24040  F14BF0F1  40404040  F04BF040  4040F5F3  4BF74060
F9F94BF0  F040F1F0  F14BF6F4
```

RECORD 5 OF FILE 2
LENGTH = 92 BYTES

```
4040F2F0  40F4F640  F5F14BF5  404060F8  4BF2F540  F2F8F24B  F6F140F2  F34BF7F9  40F6F54B  F7F140F1
F2F3F14B  404060F5  4BF8F440  4040F14B  F0F24040  F14BF0F1  40404040  F04BF040  4040F6F3  4BF64060
F9F94BF0  F040F1F0  F14BF6F1
```

RECORD 367 OF FILE 2
LENGTH = 92 BYTES

```
4040F2F0  40F5F640  40F44BF7  4040F2F0  4BF7F340  F1F6F24B  F1F14040  F74BF8F3  40F5F54B  F3F840F5
F1F7F14B  404060F3  4BF8F140  4040F14B  F0F74040  F14BF0F4  4040F2F5  F34BF840  F1FJF4F3  4BF240F4
F2F14BF1  F340F9F9  F94BF0F0
```

RECORD 368 OF FILE 2
LENGTH = 92 BYTES

```
4040F2F0  40F5F640  40F54BF9  4040F2F0  4BF7F040  F1F6F14B  F7F34040  F74BF8F6  40F5F54B  F7F440F5
F1F9F34B  404060F3  4BF7F340  4040F14B  F0F74040  F14BF0F4  4040F2F5  F54BF140  F1F0F4F3  4BF240F4
F2F14BF7  F940F9F9  F94BF0F0
```

RECORD 369 OF FILE 2
LENGTH = 92 BYTES

```
4040F2F0  40F5F640  40F74BF1  4040F2F0  4BF6F740  F1F6F14B  F3F34040  F74BF8F8  40F5F54B  F1F040F5
F2F1F54B  404060F3  4BF6F540  4040F14B  F0F74040  F14BF0F4  4040F2F5  F84BF640  F1F0F4F4  4BF240F4
F2F34BF5  F140F9F9  F94BF0F0
```

```
                                        RECORD    370  OF FILE    2
                                        LENGTH =      92  BYTES

      4040F2F0  40F5F640  40F84BF3  4040F2F0  4B=6F440  F1F6=04B  F9=44040  F74BF9F1  40F5F64B  F4F640F5
      F2F3F74B  404060F3  4BF5F740  4040F14B  F0=74040  F14B=0F4  4040F2F6  F14BF04C  F1F0F4=5  4BF240F4
      F2F44BF6  F840F9F9  F94BF0F0

                                        RECORD    371  OF FILE    2
                                        LENGTH =      92  BYTES

      4040F9F9  40F9F940  F9F94B=9  40404040  40404040  40404040  40404040  40404040  40404040  40404040
      40404040  40404040  40404040  40404040  40404040  40404040  40404040  40404040  40404040  40404040
      40404040  40404040  404C4040

                                     371 RECORDS IN FILE    2 OF TAPE

   IEF142I - STEP WAS EXECUTED - COND CODE 0000
   IEF285I    SYS76012.T084258.RV000.YZJRJTJ1.LODMOD        PASSED
   IEF285I    VOL SER NOS= K3SCR3.
   IEF285I    SYS76012.T084258.RV000.YZJRJTJ1.SC001140      SYSIN
   IEF285I    VOL SER NOS= K3SCR3.
   IEF285I    SYS76012.T084258.RV000.YZJRJTJ1.S0001140      DELETED
   IEF285I    VOL SER NOS= K3SCR3.
   IEF285I    SYS76012.T084258.SV000.YZJRJTJ1.R0001136      SYSOUT
   IEF285I    VOL SER NOS= K3SCR5.
   IEF285I    SYS76012.T084258.SV000.YZJRJTJ1.R0001137      DELETED
   IEF285I    VOL SER NOS= K3SCR3.
   IEF285I    SYS76012.T084258.SV000.YZJRJTJ1.R0001138      DELETED
   IEF285I    VOL SER NOS= K3SCR4.
   IEF285I    SYS76012.T084258.RV000.YZJRJTJ1.R0001139      KEPT
   IEF285I    VOL SER NOS= JJ0102.
   IEF280E K 0D3,JJ0102,YZJRJTJ1,GO
   IEF373I STEP /GO       / START 76012.1839
   IEF374I STEP /GO       / STOP  76012.1841 CPU    0MIN 04.44SEC MAIN 186K LCS    0K
   - STEP 03 -      RETURN CODE = 0000                                STEP TIME =      .40 MINS=(CPU=      .07,IO=      .33)
                                    IO IN SECS. DISK=     1.45,DRUM=      .44,TAPE=    18.35,CELL=      .00,OTHR=      .11
   IEF285I    SYS76012.T084258.RV000.YZJRJTJ1.LODMOD        DELETED
   IEF285I    VOL SER NOS= K3SCR3.
   IEF375I  JOB /YZJRJTJ1/ START 76012.1826
   IEF376I  JOB /YZJRJTJ1/ STOP  76012.1841 CPU    0MIN 09.75SEC
   -  SYSIEM=MVT=21 (11-21-73)   K3                                                    TIME=18.41.56.71 DATE=01-12-76
   - JOB 0379-                                                  TOTAL TIME =      .99 MINS=(CPU=      .16,IO=      .83)
                                    IO IN SECS. DISK=    12.30,DRUM=     1.22,TAPE=    36.67,CELL=      .00,OTHR=      .34
    THERE WERE 03 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE WAS 00.0 MINUTES.
```