Data Set Catalog #124
Mariner 5, Pioneer 6, 7, 8, 9
Two Frequency Beacon

D-06047 C-05015

1 tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

PIONEER 6
PIONEER 7
PIONEER 8
PIONEER 9
MARINER 5

CORRECTED ELECT DENSITY TAPE

65-105A-04D, 66-075A-04D,
67-123A-03C, 68-100A-03C,
67-060A-02C

These data set have been restored. Originally there was one 9-track, 6250 BPI tape, written in Binary. In January 2005, it was decided to separate these data sets and give them their own media number so they would be uniquely indentified for the tape migration process. These D numbers never actually existed, except on paper. They have been released, just like any other number. There is one restored tape. These data sets were all merged onto one file. The original tape was created on an IBM 7094 computer. The restored tape was created on an IBM 9021 computer. The DR is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The DR and DS numbers along with the corresponding D number and time spans are as follows:

DR#	DS#	D#	FILES	TIME SPAN	DATA SET
DR005157	DS005157	D006047	1	01/09/66 - 05/25/66	65-105A-04D
		D109572	1	08/17/66 - 10/26/67	66-075A-04D P10-7
		D109573	1	12/19/67 - 03/07/71	67-123A-03C P10-8
		D109574	1	11/11/68 - 03/07/71	68-100A-03C P10-9
		D109575	1	09/01/67 - 10/26/67	67-060A-02C Mar-5

MARINER 5, PIONEER 6,7,8,9

TWO FREQUENCY BEACON

D-06047 and C-05015

SATELLITE	NSSDC ID	START TIME	STOP TIME
MARINER 5	67-060A-02C	SEPTEMBER 1, 1967	OCTOBER 26, 1967
PIONEER 6	65-105A-04D	JANUARY 9, 1966	May 25,1966
PIONEER 7	66-075A-04D	AUGUST 15, 1966	OCTOBER 26, 1967
PIONEER 8	66-123A-03C	DECEMBER 19, 1967	MARCH 7, 1971
PIONEER 9	68-100A-03C	NOVEMBER 11, 1968	MARCH 7, 1971

Tapes are 800, Binary, 7-Track, 3 Files.

File 1 contains data from Mariner 5 and Pioneer 7

File 2 contains data from Pioneer 6

File 3 contains data from Pioneer 8 and Pioneer 9

START-STOP TIMES

The third word is the time given in hours with a base of 1/1/66. To acquire date convert hexadecimal to decimal then divide by 24, to obtain the number of days from 1/1/66. If this number is less than 365, add 1 then convert Julien day to Calander day to obtain Start-Stop time, if this number is greater than 365, divid by 365 add quotient to 66 to obtain year, then take remainder add one and convert to Cakander day unless leap year.

ex. $3B96_{16}=25254_{10}$ ÷ 24 = 1052 + 365 = 2 with remainde~ of 322. 66+2=1968 (year). 322= November 18 (day).

Time = November 18, 1968

STOP-START TIMES

MARINER 5

START-TIME

$3908_{16} = 14602_{10}$

$\div 24$

608

$\div 365$

1r.243 Day = 243 +1=244 = Sept. 1, 1967

Year = 1966 + 1 = 1967

STOP-TIME

$3E25_{16} = 15909_{10}$

$\div 24$

663

$\div 365$

1r.298 Day = 298 + 1 = 299 = Oct. 26. 1967

Year = 1966 + 1 = 1967.

PIONEER 6

START-TIME

$CA_16 = 192_{10}$

$\div 24$

8 Day = 8 + 1 = 9 = January 9.1966

STOP-TIME

$D95_{16} = 3477_{10}$

$\div 24$

144 Day = 144 + 1 = 145 = May 25. 1966

PIONEER 7

START-TIME

$153C_{16} = 15909_{10}$

$\div 24$

$\div 365$

226 Day = 226 + 1 = 227 = Aug. 15, 1966

STOP-TIME

3E25 = 15909

$\div 24$

663

$\div 365$

1r.298 Day = 298 + 1 = 299 = Oct. 26, 1967

PIONEER 8

START-TIME

4344 = 17220
÷ 24
717
÷ 365
1r.352 Day = 352 + 1 = 353 = December 19, 1967
Year = 1966 + 1 = 1967

STOP-TIME

B13C = 45372
÷ 24
1890
÷ 365
5r,65 Day = 65 + 1 = 66 = March 7, 1971
Year = 1966 + 5 = 1971

PIONEER 9

START-TIME

61F2 = 25094
÷ 24
1045
÷ 365
2r.315 Day = 315 = November 11, 1968
Year = 1966 + 2 = 1968

STOP-TIME

B13C = 45372
÷ 24
1890
÷ 365
5r.65 Day = 65 + 1 = 66 = March 7, 1971
Year = 1966 + 5 = 1971