

#239

EXPLORER 33 EPHEMERIS DATA

66-058A-00H (5 tapes)

EXPLORER 35 EPHEMERIS DATA

67-070A-00F (2 tapes)

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

IMP-D

COMPACT VERSION OF DATA SET -00F

66-058A-00H

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY FIVE 7-TRACK, 800 BPI TAPES, WRITTEN IN BCD. THERE IS ONE RESTORED TAPE WRITTEN IN ASCII. THE DATA ARE BLOCKED WITH 20 LOGICAL RECORDS PER PHYSICAL RECORD, EACH LOGICAL RECORD CONTAINING 51 WORDS (204 CHARACTERS), FOR A TOTAL BLOCK SIZE OF 4080 CHARACTERS. THE LOGICAL RECORDS ARE FORMATTED THE SAME AS 66-058A-00F, AND A COPY OF THAT FORMAT FOLLOWS. THIS DATA SET WAS CREATED TO ELIMINATE TIME OVERLAPS FROM THE ORIGINAL DATA TAPES (00F), AND ONCE THE OVERLAPS WERE ELIMINATED, THE TAPES WERE COMBINED AND THE DATA WERE BLOCKED IN A DIFFERENT RATIO. EACH ORIGINAL TAPE IN THIS DATA SET IS THE COMBINED OUTPUT (AS SPECIFIED IN THE PREVIOUS EXPLANATION) FROM APPROXIMATELY TEN DATA TAPES FROM DATA SET -00F. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TARCK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 7094 COMPUTER AND WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005402	DS005402	D012783	1	07/01/66 - 04/29/67 (a)
		D012784	2	04/29/67 - 02/28/68 (b)
		D012785	3	02/28/68 - 12/31/68 (c)
		D012786	4	01/01/69 - 09/30/69
		D012787	5	09/30/69 - 12/31/70 (d)

- (a) D012783 - 1 ERROR, REC. 2283, FILE 1
(b) D012784 - 1 ERROR, REC. 6, FILE 1
(c) D012785 - 1 ERROR, REC. 2551, FILE 1
(d) D012787 - 1 ERROR, REC. 6, FILE 5

EXPLORER 33 EPHEMERIS DATA

66-058A-00H

This data set consists of five Explorer 33 Ephemeris data tapes. The tapes were created from 66-058A-00F. They are ~~800~~ BPI, BCD, 7 track, IBM 7094 generated, single file tapes. The data are blocked with 20 logical records per physical record, each logical record containing 51 words (204 characters), for a total block size of 4080 characters. The logical records are formatted the same as 66-058A-00F, and a copy of that format follows. This data set was created to eliminate time overlaps from the original data tapes (00F), and once the overlaps were eliminated, the tapes were combined and the data were blocked in a different ratio. Each tape in this data set is the combined output (as specified in the previous explanation) from approximately ten data tapes from data set -00F. D and C numbers, along with time spans are listed below. Any time gaps are noted.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-12783	C-09587	July 1, 1966 - April 29, 1967
D-12784	C-09588	April 29, 1967 - Feb. 28, 1968
D-12785	C-09589	Feb. 28, 1968 - Dec. 31, 1968
D-12786	C-09590	Jan. 1, 1969 - Sept. 30, 1968
D-12787	C-09591	Sept. 30, 1969 - Dec. 31, 1970

(gap from March 2, 1970 - November 30, 1970)

IMP-E

COMPACT VERSION OF DATA SET-00E

67-070A-00F

This data set has been restored. There were originally two 7-track, 800 BPI tapes written in BCD. There is 1 restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on a 7094 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR03948	DS03948	D12788	1	11/29/68 - 01/30/70
		D12789	2	01/30/70 - 08/31/70

- * Read errors occurred records 8, 9 , 13, 1538, 2670, 2671, 2672, 2673, 2674, 2675, 3582, & 3583 File 1.
- * Read errors occurred records 6, 15, 491 File 2.

EXPLORER 35 EPHEMERIS DATA

67-070A-00F

This data set consists of two Explorer 35 Ephemeris data tapes. The tapes were created from 67-070A-00E. They are ~~800~~ BPI, 7 track, IBM 7094 generated, single file tapes. The data are blocked with 20 logical records per physical record, each logical record containing 51 words (204 characters), for a total blocksize of 4080 characters. The logical records are formatted the same as 67-070A-00E, and a copy of that format follows. This data set was created to eliminate time overlaps from the original data tapes (-00E), and once the overlaps were eliminated, the tapes were combined and the data were blocked in a different ratio. The first tape in this data set is the combined output (as specified in the previous explanation) from ten data tapes from data set -00E, while the second tape is the combined output from the remaining seven data tapes from -00E. D and C numbers, along with time spans are listed below. Any time gaps are noted.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-1 2 788	C-09592	Nov. 30, 1968 - Jan. 31, 1970 (gap from Jan. 1, 1969 - March 31, 1969 and from Nov. 1, 1969 - Nov. 30, 1969)
D-1 2 789	C-09593	Jan. 31, 1970 - Sept. 1, 1970

EXPLORER 33 & 35 EPHEMERIS DATA

66-058A-00H & 67-070A-00F

DATA RECORD FORMAT

<u>CHARACTER</u>	<u>FORMAT</u>	<u>DESCRIPTION</u>
1- 2	I2	Last 2 digits of year
3- 5	I3	Julian Day (Day 0 = Jan. 1)
6- 13	F8.8	Decimal Fraction of the day
14- 37	3F8.1	Geocentric equatorial inertial courtesian coordinates of the moon (using 1950 mean equator and equinox), .1km.
38- 52	3F5.2	Geocentric solar ecliptic cartesian coordinates of the moon, .01 RE.
53- 67	3F5.2	Geocentric solar magnetospheric cartesian coordinates of the moon, .01 RE.
68- 75	2F4.1	Geocentric equatorial inertial right ascension and declination of the sun (using 1950 mean equator and equinox), .1 deg.
76- 99	3F8.1	Geocentric equatorial inertial cartesian coordinates of the spacecraft (using 1950 mean equator and equinox), .1 km.
100-114	3F5.2	Geocentric solar ecliptic cartesian coordinates of spacecraft, .01 RE.
115-129	3F5.2	Geocentric solar magnetospheric cartesian coordinates of spacecraft, .01 RE.
130-144	3F5.2	Selerocentric solar ecliptic cartesian coordinates of spacraft, .01 RL.
145-152	2F4.1	Geomagnetic latitude and longitude of spacecraft subsatellite point, .1 deg.
153-160	2F4.1	Equatorial Inertial right ascension and declination of spin axis (using mean equator and equinox of 1950), .1 deg.
161-168	2F4.1	Geocentric solar ecliptic right ascension and declination of spin axis, .1 deg.
169-176	2F4.1	Geocentric solar magnetospheric right ascension and declination of spin axis, .1 deg.
177-204	I28	Blanks.

6618150000000-0428968-3476178-1692176-5869 1632-0265-5869 1493-07111000. 231-0132810 0335393 0186632 REC
0524 0110 0059 0624 0122 0026 3833-5586 1192 28508772252-2121296-0391316-163
6618150347222-0425966-3476489-1692576-5871 1628-0265-5871 1489-07091000 231-0141332 0327064 0182
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1. LENGTH 4080

D12783
7/1/66-4/29/67

2. LENGTH 4080

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39 1400-0285-5939 1375-03901002 231-0242600-0288363-0158929-0444 0459-0048-0444 0454-0082 0163-3453
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5618170833333-0248384-3491032-1714326-5945 1379-0287-5945 1363-03541002 231-0214728-0336786-0185911- REC 4, LENGTH 4080