

#356

ASTP APOLLO

APOLLO-SOYUZ EPHEMERIS DATA

75-066A-00G

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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XXNO-00035

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 an IBM 360 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
-----	-----	-----	-----
DR005694	DS005694	D024553	1

REQ. AGENT
WKD

RAND NO.
RC6503

ACQ. AGENT
EGS

ASTP APOLLO

APOLLO-SOYUZ EPHEMERIS DATA

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This data set consists of one Apollo-Soyuz Ephemeris data tape created on an IBM 360 computer. The tape is 1600, EBCDIC, 9 track, 1 file. The tape contains Apollo command-service module (CSM) and docking module (DM) position in geodetic coordinates. The data is written in card images 72 characters long followed by zero bytes to make 80 characters total.

D#
D-24553

C#
C-18243

75-066A-0

SMITHSONIAN INSTITUTION
ASTROPHYSICAL OBSERVATORY
60 GARDEN STREET CAMBRIDGE, MASSACHUSETTS 02138
TELEPHONE 617 554-7910

4 June 1976

Dr. E. G. Stassinopoulos
Code 601.1
Goddard Space Flight Center
Greenbelt, Md. 20771

Dear Dr. Stassinopoulos:

The magnetic tape containing Apollo command-service module (CSM) and docking module (DM) position in geodetic coordinates has been shipped. The tape format is as follows:

9-track, phase encoded (¹⁶3200 bpi)
block size 4960 characters (EBCDIC)
card image length: 672 char. + 8 blanks
card images per block: 62

Each card image is 72 char long followed by zero bytes to make 80 char total. Each pair of card images contains the following data in 4E18.8 format:

card #1 DM coordinates
time in sec. from epoch
geodetic latitude in degrees
longitude in degrees east from Greenwich
altitude in km above reference ellipsoid.

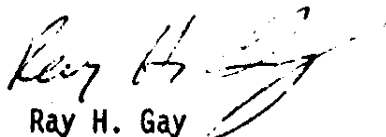
card #2 CSM coordinates, same format

The reference figure for the earth is an ellipsoid of revolution with equatorial radius 6378.160 km and polar radius 6356.774 km. Altitude is along the normal to the reference ellipsoid.

There are a total of 195 blocks of 62 images each on the file. The positions are given at a 10 second interval throughout.

I am leaving SAO immediately so please contact Dr. Grossi if there are any problems and he can consult with me.

Sincerely,


Ray H. Gay

IEF2361 ALLOC. FOR YZJRJKDE GC
IEF2371 332 ALLOCATED TO PGM=*.DD
IEF2371 232 ALLOCATED TO FT05F001
IEF2371 231 ALLOCATED TO FT06F001
IEF2371 232 ALLOCATED TO FT07F001
IEF2371 231 ALLOCATED TO SYSPRINT
IEF2371 232 ALLOCATED TO SYSPRINT
IEF2371 331 ALLOCATED TO SYSPRINT
IEF2371 003 ALLOCATED TO FT08F001

1.09812846E+02

RECCRD = 1 OF FILE 1
LENGTH = 4950 BYTES

card # 1
card # 2

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40404040	F04E4C40	F04E4C40	40404040	40404040	4060F34B	F2F5F5F9	F8F2F3F4	C54EF0F1	40404040	40404040
F14BF0F7	F5F5F7F3	F3F4C54E	F0F24040	4C40F24B	F1F9F9F2	F5F1F7F4	C54EF0F2	40404040	40404040	40404040
40404040	F14EFCF0	F0F0F0F0	F0F0C54E	F0F14040	4060F34B	F0F2F6F0	F9F0F1F0	C54EF0F1	40404040	40404040
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40404040	F44EFCF0	F0F0F0F0	F0F0C54E	F0F14040	4060F24B	F9F2F2F8	F9F2F6F4	C54EF0F1	40404040	40404040
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F14BF2F1	F7F5F6F4	F1F4C54E	F0F24040	4040F24B	F1F8F3F6	F4F5F1F0	C54EF0F2	40404040	40404040

RECORD 2 OF FILE 1
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F34BF2F5	F5F7F5F8	F6F0C54E	F0F24040	4040F24B	F2F7F1F6	F9F9F3F1	C54EF0F2	40404040	40404040

195 RECORDS IN FILE 1 OF TAPE

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IEF142I - STEP WAS EXECUTED - CJCND CODE 0000
IEF285I SYS76238.T112028.RV000.YZJRJKDE.LGDMOD PASSED
IEF285I VCL SER NOS= K3SCR5.
IEF285I SYS76238.T112028.RV000.YZJRJKDE.S0000031 SYSIN
IEF285I VCL SER NOS= K3SCR3.
IEF285I SYS76238.T112028.RV000.YZJRJKDE.S0000031 DELETED
IEF285I VCL SER NOS= K3SCR3.
IEF285I SYS76238.T112028.SV000.YZJRJKDE.R0000027 SYSOUT
IEF285I VCL SER NOS= K3SCR2.
IEF285I SYS76238.T112028.SV000.YZJRJKDE.F0000028 DELETED
IEF285I VCL SER NOS= K3SCR3.
IEF285I SYS76238.T112028.SV000.YZJRJKDE.F0000029 DELETED
IEF285I VCL SER NOS= K3SCR2.
IEF285I SYS76238.T112028.RV000.YZJRJKDE.R0000030 KEPT
IEF285I VCL SER NOS= JJ0200.
IEF280E K CC3,JJC200,YZJRJKDE,GC
IEF373I STEP /GC / START 76238.1142
IEF374I STEP /GO / STOP 76238.1152 CPU 0MIN 52.67SEC MAIN 186K LCS 0K
- STEP 02 - RETURN CODE = 0000

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IO IN SECS.	DISK=	20.20,DRUM=	STEP TIME =	1.24 MINS=(CPU=	.87,IO=	.37)
			.44,TAPE=	2.01,CELL=	.00,OTHR=	.23
IEF285I SYS76238.T112028.RV000.YZJRJKDE.LGDMOD DELETED IEF285I VCL SER NOS= K3SCR5. IEF375I JOB /YZJRJKDE/ START 76238.1138 IEF376I JOB /YZJRJKDE/ STJP 76238.1153 CPU 0MIN 54.31SEC - SYSTEM=MVT-21 (11-21-73) K3 - JOB 0019-						
TOTAL TIME =			1.46 MINS=(CPU=	.90,IO=	.56)	
			2.01,CELL=	.00,OTHR=	.39	

THERE WERE 01 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE WAS 00.0 MINUTES.