

DATA SET CATALOG #84

ATS-B Solid State Particle
66-110A-03A (input) 49 tapes
(output) 10 tapes

Table of Contents

1. Introduction
2. Errata/Change Log
3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM
4. Catalog Materials
 - a. Associated Documents
 - b. Core Catalog Materials

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ATS-1

REFORMATTED PROTON + ELECTRON FLUX, TAPE

66-110A-030

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY THERE WERE 10 7-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE ARE TWO RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI WRITTEN IN BINARY. THE TAPES WERE CREATED ON A 7094 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR03474	DS03474	005729	1	12/17/66 - 05/26/67
		005730	2	05/27/67 - 08/11/67
		005731	3	08/14/67 - 10/20/67
		005732	4	10/23/67 - 12/30/67
		005733	5	01/01/68 - 02/19/68
DR03475	DS03475	005734	1	02/20/68 - 04/23/68
		005735	2	04/24/68 - 06/14/68
		005736	3	06/15/68 - 08/14/68
		005737	4	08/15/68 - 10/08/68
		005738	5	10/09/68 - 12/05/68

ATS-B SOLID STATE PARTICLE

66-110A-03A

This data set consists of 49 input tapes and 10 merged and sorted output tapes. All tapes are 7-track, 800 BPI, binary. The input tapes were created on a CDC computer and each contain a header file followed by 10 data files. The output tapes were produced on the IBM 7094 computer and contain one file each.

The time spans for the output tapes are as follows:

D#	C#	TIME SPAN
D-5729	C-4434	12/17/66-05/26/67
D-5730	C-4435	05/17/67-08/11/67
D-5731	C-4436	08/14/67-10/20/67
D-5732	C-4437	10/23/67-12/3-/67
D-5733	C-4438	01/01/68-02/19/68
D-5734	C-4439	02/20/68-04/23/68
D-5735	C-4440	04/24/68-06/14/68
D-5736	C-4441	06/15/68-08/14/68
D-5737	C-4442	08/15/68-10/08/68
D-5738	C-4443	10/09/68-12/5/68

AEROSPACE CORPORATION

Post Office Box 95085, Los Angeles 45, California

2 December 1968

Jim Wolfe
National Space Science Data Center
Code 501
Cassini Space Flight Center
Greenbelt, Maryland 20771

Tape Format for AOS-B
Data Tapes

The data tape contains a tape ID file (file 1) followed by ten data files (files 2-11) followed by an end of tape file (file 12).

Each data file contains the data from one calendar day.

The first record of each data file is an ID record giving the following information:

Word 1	Number of words in ID record excluding words 1 and 2
Word 2	Record type ("2" is ID record)
Word 3	Ten character BOD ID
Word 4	Number of words/frame
Words 5-10	Word ID (function names)

The second through the 15th record in each data file contains a number of whole data frames. A data frame consists of a sample of each function at the time given. On the AOS data tape, there are ten functions (10 words/frame). Words 1 and 2 from each record contain control information. Words 3-102 contain 50 frames of data (500 words @ 10 words/frame).

Each frame of data contains the following functions in order:

Word 1	Time associated with this frame of data (universal time)
Word 2	STWNO - on board clock sequence number
Word 3	E1 - Electron Flux $E_0 > 300 \text{ kev}$ ($\text{cm}^{-2} \text{ sec}^{-1}$)
Word 4	E2 - Electron Flux $E_0 > 450 \text{ kev}$ ($\text{cm}^{-2} \text{ sec}^{-1}$)