Data Set Catalog #126

OSO-4

Reduced Proton Electron

67-100A-04A 11 tapes

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

OSO 4

ELECTRON, PROTON COUNT RATES

67-100A-04A

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 11 7-TRACK, 556 BPI TAPES, WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THERE WAS ONE BAD TAPE, D006061. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 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#	DD#	FILES	TIME SPAN
DR005956	DR005956	DD006069	1-104	10/25/67 - 10/31/67
		DD006065	105-209	10/31/67 - 11/07/67
		DD006068	210-309	11/07/67 - 11/14/67
		DD006067	310-413	11/14/67 - 11/20/67
		DD006070	414-512	11/20/67 - 11/27/67
		DD006060	513-609	11/27/67 - 12/04/67
		DD006062	610-711	12/04/67 - 12/10/67
		DD006063	712-812	12/10/67 - 12/17/67
		DD006064	813-909	12/17/67 - 12/23/67
		DD006066	910-1006	12/24/67 - 12/30/67

OSO-4

PROTON & ELECTRON COUNT RATE TAPES

67-100A-04A

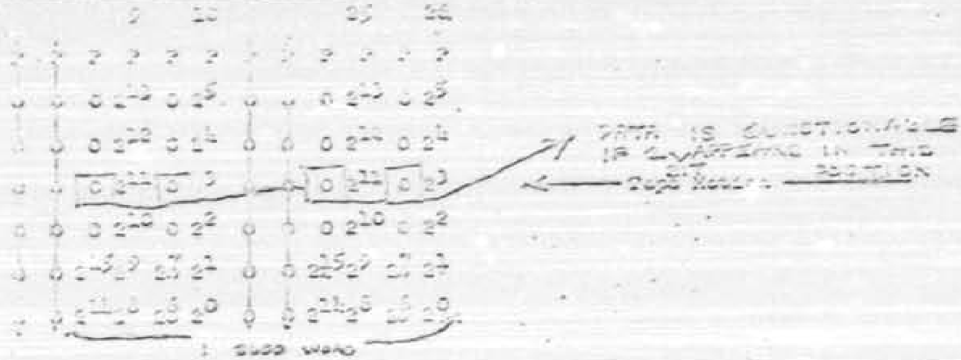
This data set consists of 11 Experimenter generated 7-track 556 BPI, Binary, multi-file tapes generated on a CDC 3600 computer. Data from one orbit fills one tape file which itself has a maximum of 18 records. The time period October 23, 1967 to December 30, 1967 is covered by these tapes with essentially 100 percent completeness

D#	C#	START	STOP	# OF FILES
D-06061	C-05116	10/23/67	10/25/67	106
D-06069	C-05117	10/25/67	10/31/67	104
D-06065	C-05118	10/31/67	11/07/67	105
D-06068	C-05119	11/07/67	11/14/67	100
D-06067	C-05120	11/14/67	11/20/67	104
D-06070	C-05121	11/20/67	11/27/67	99
D-06060	C-05122	11/27/67	12/04/67	97
D-06062	C-05123	12/04/67	12/10/67	102
D-06063	C-05124	12/10/67	12/17/67	101
D-06064	C-05125	12/17/67	12/24/67	97
D-06066	C-05126	12/24/67	12/30/67	97

Cambridge Radiation Laboratory | [illegible] | University of California

OGO-D Data Reduction Format, Tape 1 [illegible]

UPDATED 2/[illegible]/[illegible]



Main Frame Data Word

1 TAPE CELL = [illegible] BINARY BITS = 1 [illegible]

1. A file will consist of one ground station readout. Exception--the start of each data tape consists of a label followed by an end of file.
2. Each file will start with a label. This will be a [illegible] bit field [illegible] [illegible] may be filled out with zeros. Total label length will be [illegible] ([illegible]) characters. The label will include our experiment number (43).

Format:

char.	meaning	char.	meaning
1-5	Satellite I.D.	51	Unprocessible data
6,7	[illegible]		1 = unprocessible
[illegible]-10	Station I.D.		0 = processible [illegible]
11-14	Station tape number	32-36	End time of unprocessible file (msec of day)
15,16	Station file number		
17,18	Buffer file number	37-38	Experiment I.D. (43)
19-21	Day of year	39-42	zeros
22-24	Real time frame period	[illegible]	Edit file number
	[illegible] milliseconds per frame	[illegible]-48	Edit tape number
25	Time accuracy code		
	[illegible] = 100 msec uncertainty		Then [illegible] identical lines
	1 = 2500 msec uncertainty		Last line same as above except
26-30	Start time of data (msec. of day)	37-42	Blank (12 zero)
		[illegible]	May have different numbers

[illegible]

Data for the complete pass follows.

Approximately 100 orbits will be on a tape. ≈ 105 files

End of tape will be signified by [illegible] end of file marks.

No.	Name	Description	Units
1	TSC	Time	Day count
2	TMD	Time	Milliseconds of day
3	SPVX	Satellite position vector	X-component (km)
4	SPVY	Satellite position vector	Y-component (km)
5	SPVZ	Satellite position vector	Z-component (km)
6	RASPV	Right ascension of satellite position vector	Degrees
7	DCSPV	Declination of satellite position vector	Degrees
8	VVX	Velocity vector	X-component (km/sec)
9	VVY	Velocity vector	Y-component (km/sec)
10	VVZ	Velocity vector	Z-component (km/sec)
11	RAVV	Right ascension of velocity vector	Degrees
12	DCVV	Declination of velocity vector	Degrees
13	GLAT	Geodetic latitude	Degrees
14	GLONG	Geodetic longitude	Degrees
15	GALT	Geodetic altitude	Kilometers
16	USVX	Unit solar vector	X-component
17	USVY	Unit solar vector	Y-component
18	USVZ	Unit solar vector	Z-component
19	RASSV	Right ascension of unit solar vector	Degrees
20	DCSV	Declination of unit solar vector	Degrees
21	TL	McIlwain's "L" parameter	Earth radii
22	TB	Magnetic field strength	Gauss
23	UMVX	Unit magnetic vector	X-component
24	UMVY	Unit magnetic vector	Y-component
25	UMVZ	Unit magnetic vector	Z-component
26	RAMV	Right ascension of magnetic vector	Degrees
27	DCMV	Declination of magnetic vector	Degrees
28	PA	Pitch angle	Radians
29	RA	Roll angle: Smoothed value using roll angles with less than 2° roll angle error	Radians
30	AA	Aspect angle (between roll axis and aspect reference axis)	Radians
31	DELTA	Time increment (Δt) since digital subcommutator word number one	Milliseconds
32	RAX	Roll-axis orientation	X-component
33	RAY	Roll-axis orientation	Y-component

INDEX OF PARAMETERS ON OSO-D EPHEMERIS TAPES.

TABLE I