

DATA SET CATALOG # 108

L- INTERPOLATED DATA (1 tape)

59-004A-02A, Expl. 6, Scint Counter 'F'

59-004A-03D, Expl. 6, GM & 10N Chamber  
Counter 'D'

63-046A-05E, Expl. 18, Beta counter 'E'

L- INTERPOLATED DATA (1 tape)

62-051A-03D, Expl. 14, GM Counter 'D'

61-020A-03C, Expl. 12, GM Counter 'C'

L- INTERPOLATED DATA (1 tape)

65-058C-01D, ERS 17, SSD, LEPM Counter 'D'

64-040C-01B, ERS 13, SSD, Counter 'B'

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

EXPLORER 6

IMP-A

59-004A-02F, 03D

63-046A-05E

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY THEY CONTAINED ONE 7-TRACK, 556 BPI TAPE WRITTEN IN BCD. IN JANUARY 2005, IT WAS DECIDED TO SEPARATE THE DATA SETS AND GIVE THEM THEIR OWN MEDIA NUMBER, SO THEY WOULD BE UNIQUELY IDENTIFIED FOR THE TAPE MIGRATION PROCESS. THESE D TAPES NEVER ACTUALLY EXISTED, EXCEPT ON PAPER. THEY HAVE BEEN RELEASED, JUST LIKE ANY OTHER NUMBER. THERE IS ONE RESTORED TAPE, WRITTEN IN EBCDIC. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON A 7094 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBER AND THE TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN	DATA SET
DR002838	DS002838	D109570	1-2	08/07/59 - 10/06/59	59-004A-03D
		D005519	3	08/08/59 - 09/04/59	59-004A-02F
		D109571	4	11/27/63 - 05/27/64	63-046A-05E

EXPLORER 12

PARTICLE COUNT RATE & EPHEMERIS

L-ORDERED ELECTRON COUNT RATE

61-020A-03A

61-020A-03C

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED FOUR 7-TRACK, 556 BPI TAPES WRITTEN IN BCD. THERE IS ONE RESTORED TAPE WRITTEN IN EBCDIC. FILES 1-3 ARE DATA SET 61-020A-03A AND FILE 4 IS DATA SET 61-020A-03C. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A 7094 COMPUTER. THE DR AND DS TAPES ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR01738	DS01738	D00042	1	08/01/61 - 10/01/61
		D00043	2	10/01/61 - 11/22/61
		D00044	3	11/22/61 - 12/06/61
		D05520	4	08/16/61 - 12/06/61

EXPLORER 14

ANTON 213, 302 GM COUNT RATE & EPHEMERIS  
 COMPACTED GM TUBE COUNT RATES AND ORBITS  
 L-ORDERED ELECTRON COUNT RATES TAPE

62-051A-03B

62-051A-03C

62-051A-03D

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED 11 7-TRACK, 556 BPI TAPES WRITTEN IN BCD. THERE ARE FIVE RESTORED TAPES. THE FIRST THREE TAPES ARE DATA SET 62-051A-03B, FILES 1 AND 2 ON THE FOURTH TAPE ARE DATA SET 62-051A-03B AND FILES 3-6 ARE DATA SET 62-051A0-03C AND FILES 1-4 ON THE FIFTH TAPE ARE DATA SET 62-051A-03C AND FILES 5-8 ARE 62-051A-03D. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI AND WRITTEN IN EBCDIC. THE ORIGINAL 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
DR02012	DS02012	D00168	1	10/02/62 - 11/12/62 (03B)
		D00169	2	11/12/62 - 12/23/62 (03B)
DR01995	DS01995	D00170	1	12/23/62 - 02/11/63 (03B)
		D00171	2	02/11/63 - 03/15/63 (03B) (a)
DR01996	DS01996	D00172	1	03/15/63 - 04/16/63 (03B)
		D00173	2	04/16/63 - 05/19/63 (03B)
DR01997	DS01997	D00174	1	05/19/63 - 06/25/63 (03B)
		D00175	2	06/25/63 - 08/11/63 (03B) (b)
		D05500	3-6	10/02/63 - 02/15/63 (03C)
DR02013	DS02013	D05501	1-4	02/15/63 - 08/11/63 (03C) (c)
		D05520	5-8	10/02/62 - 08/11/63 (03D)

- (a) READ ERRORS OCCURRED ON RECORDS 8344 AND 8649 OF FILE 2
- (b) READ ERROR OCCURRED ON RECORD 27582 OF FILE 3
- (c) READ ERROR OCCURRED ON RECORD 783 OF FILE 1



ERS 13

ERS 17

ELECTRONS ABOVE 700 KEV, L-ORDERED  
L-ORDERED ELEC & PROT CNT RATES, TAPE

64-040C-01B

65-058C-01D

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY THERE WAS ONE 7-TRACK, 556 BPI TAPE, WRITTEN IN BCD. THERE IS ONE RESTORED TAPE, WRITTEN IN EBCDIC. FILES 1-3 ARE DATA SET 65-058C-01D AND FILE 4 IS DATA 64-040C-01B. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 7094 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR003400	DS003400	D005521	1	07/20/65 - 10/31/65 (01D)
			2	07/20/65 - 10/21/65 (01D)
			3	07/20/65 - 09/07/65 (01D)
		D109576	4	07/18/64 - 11/29/64 (01B)

59-004A-02F  
Expl 6, Scintillation Counter 'F'  
L - Interpolated Data

59-004A-03D  
Expl 6, Ion CH+GM (E/1.55,2.86,P) 'D'  
L - Interpolated Data

63-046A-05E  
Expl 18, Energetic Particle Exp 'E'  
L - Interpolated Electron Count Rate

556 BPI, BCD, 7 Track, 4 Files, IBM 7094

	<u>Data Set</u>	<u>Files</u>	<u>Start</u>	<u>Stop</u>
D-05519	59-004A-02F	1	08/08/59	09/04/59
C-04044	59-004A-03D	2	08/07/59	10/06/59
	59-004A-03D	3	08/07/59	10/06/59
	63-046A-05E	4	11/27/63	05/27/64

DOCUMENTATION FOR  
59-004A-02F  
EXPLORER 6 SCINTILLATION COUNTER  
L- INTERPOLATED DATA

Data set 59-004A-02F is L- interpolated data from the Explorer 6 scintillation counter experiment. Data were interpolated to  $L = 2.2, 2.4, 2.6, 2.8, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0$ , then sorted on these L-values.

The times for which Explorer 6 crossed the above L-shells were found by linearly interpolating ephemeris data from data set 59-004A-00D. The count rates for these times were then read from the count rate versus time plots of data set 59-004A-02A. Local time and solar rotation times were calculated using time and position data. The interpolated data were punched on cards, then sorted by L-value. Tape was made by loading cards on tape. The tape characteristics and data format are given in Appendix A.

APPENDIX A  
TAPE CHARACTERISTICS

EXPLORER 6 SCINTILLATION COUNTER  
L- INTERPOLATED ELECTRON COUNT RATES  
59-004A-02F

Tape Number: D-5519

File 1

(files 2 and 3 are Explorer 6 GM and Ion chamber counters,  
respectively: 59-004A-03C)

(file 4 is Explorer 18 "BETA" counter 63-046A-03E)

Density: 556 BPI

Mode: BCD

Parity: EVEN

Track: 7

Record Length: 84 characters (card to tape)

Machine: IBM 360/30 for IBM 7094 using 7094 utility program.

EXPLORER 6  
SCINTILLATION COUNTER  
DATA SET 59-004A-02F

Page 1 of 3

	COLUMNS	FORMAT	SYMBOL	DESCRIPTION
HEADER RECORD	1-60	A		Alpha Numeric description of data which follows.
DATA RECORD	1-8	1P8.2	XJ	P Count rate in counts/sec.
	9-15	E7.3	DBO	w B/B <sub>0</sub> - Ratio of magnetic field strength to equatorial magnetic field strength for the same L-value.
	16-22	F7.3	PHI	C Local time = HR + $\frac{FLONG}{15}$ ( in hours)
	23-29	F7.3	SRT	C Solar Rotation time in days since beginning of current solar rotation. 0 ≤ SRT ≤ 26.
	30-36	F7.3	HR	* Universal time in hours and decimal fractions.
	38-39	I2	MO	* Month (1-12)
	41-42	I2	MDA	* Day of month
	44-45	I2	MYR	* Last two digits of year.
	46-52			BLANK
	53-58	F6.1	FLONG	* Geographic longitude in degrees East. 0 ≤ FLONG ≤ 360
	60-69	F10.6	FLAT	* Geographic latitude in degrees North. -90 ≤ FLAT ≤ 90
76-80	F5.2	XL	L-value	