DATA SET CATALOG #108

L- INTERPOLATED DATA (1 tape)

59-004A-02F, Expl. 6, Scint counter 'F'
59-004A-03D, Expl. 6, GM & ION 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'

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

	Data Set	Files	Start	Stop
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-5529

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

	COLUMNS	FORMAT	SYMBOL		DESCRIPTION
HEADER RECORD	1-60	A			Alpha Numeric description of data which follows.
DATA RECORD	1-8	1PE8.2	XJ	P	Count rate in counts/sec.
	9-15	E7.3	DBo	*	B/Bo - 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. $0 \leq SRT \leq 26$.
	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. $0 \leq FLONG \leq 360$
	60-69	F10.6	FLAT	*	Geographic latitude in degrees North. $-90 \leq FLAT \leq 90$
	76-80	F5.2	XL		L-value