S15

COUNT RATE, LONG, LAT, B, L, UT

61-013A-02A

This data set has been restored. The original tape was 7-track, 556 BPI, and BCD. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The restored data is written in EBCDIC, with one file of data. The DR, DS, and DD numbers along with the time spans are given as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR002940	DS002940	DD00137	1	04/28/61 - 11/12/61

EXPL 11 Charged Particle 'A'

61-013A-02A

The data from each orbit were processed through this system in a little over 2 min; the rate of recording camera film was 200 in./min. The 100 min of data recorded during each orbit were transferred to about 36 ft of film.[2]

Satellite position is listed in an ephemeris giving the geographical longitude, latitude, and altitude of Explorer 11 for each minute of time. Ephemerides have been supplied by both GSFC and the Marshall Space Flight Center, based upon separate observations and, hence, separate orbital elements. These ephemerides provide a means of determining the accuracy of the satellite's position as a function of time. The variance between these two ephemerides covers a range of approximately 10 min of arc in latitude and longitude and about 6 km in altitude.[3]

Timespan of Data

Data on this experiment are available at NSSDC for the period of April 28 to November 12, 1961.

Format of Available Data

Uncalibrated data are available on one BCD card image magnetic tape written at a density of 556 bpi.

The format is as follows:

Col. 1-3	Channel
Col. 12-17	Longitude in degrees (west)
Col. 20-24	Latitude (sign in Col. 20)
	+ = north, - = south
Col. 27-32	Altitude (km)
Col. 34-40	B
Col. 43-47	L
Col. 50-55	B/B_o
Col. 59-62	Month (59-60) Day (61-62)
Col. 66-69	Hour (66-67) Minute (68-69)
Col. 72-77	Count rate for Channels 1-5

EBCDIC LIST OF DR002940

FILE 1 RECORD 1 84 BYTES

CH1	283.00	-2.50	727.0	0.23174	1.176	1.210	0428	1930	32

EBCDIC LIST OF DR002940

FILE 1 RECORD 2 84 BYTES

288.00	-5.50	779.0	0.21650	1.182	1.147	0428	1933	800

EBCDIC LIST OF DR002940

FILE 1 RECORD 3 84 BYTES

289.00	-6.50	800.0	0.21160	1.184	1.126	0428	1933	1600

EBCDIC LIST OF DR002940

FILE 1 RECORD 4 84 BYTES

292.50	-8.00	838.0	0.20305	1.192	1.104	0428	1934	8000

EBCDIC LIST OF DR002940

FILE 1 RECORD 5 84 BYTES

295.00	-9.73	867.0	0.19570	1.197	1.077	0428	1935	16000

EBCDIC LIST OF DR002940

FILE 1 RECORD 1215 84 BYTES

183.30	-0.05	941.0	0.22872	1.128	1.054	1111	0722	480

EBCDIC LIST OF DR002940

FILE 1 RECORD 1216 84 BYTES

185.10	1.08	965.0	0.22414	1.131	1.040	1111	0723	1200

EBCDIC LIST OF DR002940

FILE 1 RECORD 1217 84 BYTES

186.60	1.50	980.0	0.22168	1.133	1.035	1111	0723	2400

EBCDIC LIST OF DR002940

FILE 1 RECORD 1218 84 BYTES

212.28	-1.47	840.0	0.22789	1.121	1.030	1112	0455	520

EBCDIC LIST OF DR002940

FILE 1 RECORD 1219 84 BYTES

CH5	215.65	0.83	882.0	0.22305	1.131	1.034	1112	0457	1300