

5
Data Set Catalog #151

Electron Spectrometer.

Experiment A15-1 Satellite

66-110A-04A

1 tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

6-MINUTE COUNT RATE DATA

66-110A-04A

THIS DATA SET HAS BEEN RESTORED. THERE WAS ORIGINALLY ONE 7-TRACK, 800 BPI TAPE, WRITTEN IN BCD. 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 DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR002945	DS002945	D007036	1	12/09/66 - 12/30/67

66-110A-04A

ELECTRON SPECTROMETER EXPERIMENT ATS-1 SATELLITE

The tapes contain BCD coded card images packed 5 cards per physical block (400 characters). The tapes are written at 800 BPI, BCD (even) parity, with two end file marks at the end of the data. The original tape number is DD-7036 and its copy is DC-5425.

Nov. 19, 1971

To: E. G. Stassinopoulos

From: ADP SERVICES

Subject: ATS-1 Tape (RAB614)

Data set processing has been completed on the University of Minnesota 6 minute average count rate tape (66-110A-04A).

There were no parity errors and the time period covered was December 9, 1966 to December 30, 1967. The tape was duped and put in the NSSDC Data Repository. The original tape as number DD-7036 and its copy as DC-5425.

Electron Spectrometer Experiment. S-1 Satellite

from launch (1966) through 1967

66-110A-C44

ATS 6-Minute Average Format

The tapes contain ECD coded card images packed 5 cards per physical block (400 characters). The tapes are written at 800 BPI, ECD (even) parity, with 2 endfile marks at the end of data. The format for each card is:

COLUMN	FORMAT	NAME
1	I1	End of day flag
2-4	I3	Time of day ordinal 1-240
5	1X	blank
6-7	I2	Year 66, 67 or 68
8-10	I3	Day of year 1-365
11	1X	blank
12-13	I2	Starting hour 0-23
14-15	I2	Starting minutes 00-54
16	1X	blank
17-18	I2	Ending hour 0-24
19-20	I2	Ending minutes 00-54
21	1X	blank
22-26	F7.2	Ch 1 count rate
29-34	F6.2	Ch 2 count rate
35-40	F6.2	Ch 3 count rate
41-46	F6.2	Ch 1 background rate
47-52	F6.2	Ch 2 background rate
53-58	F6.2	Ch 3 background rate
59-64	F6.2	Ch 1 statistical error
65-70	F6.2	Ch 2 statistical error
71-76	F6.2	Ch 3 statistical error.

The end of day flag is blank for cards containing data. If the flag is 1 the remainder of that card will be blank and there is no more data for that day. The remainder of the physical tape block is padded with cards having the end of day flag set to 1, thus a new day always starts on the first card of a physical record. An end of day flag is present for every day containing data, even if an extra physical record containing no data must be written. For days with no data there are no cards and no end of day flags.

The time of day ordinal is a number from 1 to 240 and is the "bin number" for the 6 minute time interval (i.e., 1 = 0000 to 0006 hrs., 240 = 2354 to 2400 hrs.)

Starting and ending time are in Universal Time.

The count rates are in counts/telemetry sample and have been corrected for background counts. A rate of -99.00 indicates no usable data for this interval. If all 3 channels are unusable the card is not written on the tape. Rates near 1000 counts/ sample may overflow the spacecraft scalars and give erroneously low rates.

[illegible]

00	14	12	05	29	66353	230	236	38.19	25.72	4.97	2.27	.74	.13	.15	.11	.05			
27	66353	236	242	38.04	24.26	4.87	2.38	.75	.13	.15	.11	.05	28	66353	242	248	REC	12, LENGTH	402
35.89	24.73	4.86	2.31	.81	.11	.14	.11	.05	29	66353	248	254	33.09	25.97	4.86				
2.36	.74	.10	.14	.11	.05	30	66353	254	300	30.94	25.75	4.70	2.38	.76	.13				
.14	.11	.05	31	66353	300	306	29.75	25.34	4.71	2.44	.79	.12	.13	.11	.05				
00																			
32	66353	306	312	30.39	25.70	4.76	2.30	.81	.11	.13	.11	.05	33	66353	312	318	REC	13, LENGTH	402
30.99	25.54	4.71	2.32	.83	.12	.13	.11	.05	34	66353	318	324	31.68	25.36	4.62				
2.37	.76	.13	.14	.11	.05	35	66353	324	330	33.19	24.70	4.55	2.51	.76	.11				
.14	.11	.05	36	66353	330	336	35.02	24.96	4.64	2.67	.75	.12	.14	.11	.05				
00																			
37	66353	336	342	35.40	25.07	4.51	2.60	.76	.12	.14	.11	.05	38	66353	342	348	REC	14, LENGTH	402
35.06	25.21	4.53	2.59	.78	.10	.14	.11	.05	39	66353	348	354	34.22	25.50	4.73				
2.56	.76	.12	.14	.11	.05	40	66353	354	400	32.22	24.99	4.66	2.52	.83	.12				
.14	.11	.05	41	66353	400	406	31.23	25.09	4.70	2.50	.76	.14	.14	.11	.05				
00																			
42	66353	406	412	30.35	25.17	4.65	2.52	.76	.11	.14	.11	.05	43	66353	412	418	REC	15, LENGTH	402
29.47	24.51	4.56	2.47	.71	.09	.13	.11	.05	44	66353	418	424	29.17	23.93	4.38				
2.36	.73	.13	.14	.12	.05	45	66353	424	430	29.67	24.59	4.45	2.31	.79	.10				
.13	.11	.05	46	66353	430	436	30.33	24.00	4.40	2.27	.81	.11	.13	.11	.05				
00																			
47	66353	436	442	30.14	23.52	4.36	2.28	.75	.10	.13	.11	.05	48	66353	442	448	REC	16, LENGTH	402
29.81	23.73	4.46	2.21	.74	.10	.13	.11	.05	49	66353	448	454	29.90	23.79	4.27				
2.22	.75	.12	.13	.11	.05	50	66353	454	500	28.91	23.14	4.24	2.12	.78	.11				
.13	.11	.05	51	66353	500	506	28.85	22.87	4.22	2.01	.76	.11	.13	.11	.05				
00																			
52	66353	506	512	29.03	22.80	4.30	2.05	.75	.11	.13	.11	.05	53	66353	512	518	REC	17, LENGTH	402
28.05	22.87	4.29	1.98	.74	.10	.16	.13	.05	54	66353	518	524	28.26	23.26	4.22				
2.08	.71	.09	.13	.11	.05	55	66353	524	530	28.44	23.16	4.20	2.15	.71	.11				
.13	.11	.05	56	66353	530	536	28.55	23.22	4.19	2.13	.80	.12	.13	.11	.05				
00																			
57	66353	536	542	29.08	23.04	4.25	2.04	.77	.11	.13	.11	.05	58	66353	542	548	REC	18, LENGTH	402
28.43	22.87	4.12	2.10	1.00	.10	1.11	.93	.41	59	66353	548	554	29.47	22.86	4.28				
2.11	.69	.11	.19	.15	.07	60	66353	554	600	30.23	22.85	4.14	2.17	.76	.08				
.16	.13	.05	61	66353	600	606	30.86	23.08	4.07	2.26	.72	.12	.14	.11	.05				
00																			
62	66353	606	612	30.86	23.16	4.11	2.39	.67	.12	.17	.14	.06	63	66353	612	618	REC	19, LENGTH	402
30.66	22.30	4.03	2.17	.66	.16	.15	.12	.05	64	66353	618	624	29.50	22.30	3.98				
2.09	.73	.14	.14	.11	.05	65	66353	624	630	29.12	22.65	3.95	2.17	.76	.10				
.14	.12	.05	66	66353	630	636	27.86	22.12	3.94	2.12	.69	.09	.14	.11	.05				
00																			
67	66353	636	642	27.61	22.16	3.95	2.10	.67	.11	.13	.11	.05	68	66353	642	648	REC	20, LENGTH	402
28.04	22.57	4.07	3.09	.74	.11	.17	.15	.06	69	66353	648	654	28.47	23.74	4.35				
2.35	.73	.10	.14	.12	.05	70	66353	654	700	29.21	23.91	4.11	2.21	.74	.11				
.14	.11	.05	71	66353	700	706	30.57	23.70	4.10	2.23	.74	.14	.15	.12	.05				
00																			
72	66353	706	712	31.57	23.24	4.09	2.23	.82	.09	.14	.11	.05	73	66353	712	718	REC	21, LENGTH	402
31.92	22.50	3.88	2.34	.70	.10	.14	.11	.04	74	66353	718	724	30.77	21.38	3.84				
2.21	.68	.11	.11	.10	.04	75	66353	724	730	29.89	22.55	3.97	2.12	.76	.11				
.13	.11	.05	76	66353	730	736	29.36	23.27	3.94	2.21	.83	.19	.13	.11	.04				
00																			
77	66353	736	742	29.35	23.21	4.07	2.11	.79	.11	.14	.12	.05	78	66353	742	748	REC	22, LENGTH	402

	29.64	22.84	4.09	2.19	.69	.13	.13	.11	.05	79	66353	754	754	29.79	22.80	3.93			
	2.21	.71	.12	.13	.11	.04	80	66353	754	800	30.13	22.58	4.07	2.19	.76	.08			
	.14	.11	.05	81	66353	800	806	30.49	20.32	3.47	2.04	.70	.10	.22	.16	.07			
00																			
	111	66353	1100	1106	27.75	21.64	3.64	2.09	.72	.10	.13	.11	.04	112	66353	1106	1112	REC	23. LENGTH
	28.27	21.72	3.91	2.19	.74	.11	.13	.11	.05	113	66353	1112	1118	28.29	21.62	3.99			402
	2.19	.71	.08	.13	.11	.04	114	66353	1118	1124	28.00	21.92	4.06	2.17	.75	.10			
	.13	.11	.05	115	66353	1124	1130	27.10	21.99	4.09	2.10	.75	.11	.13	.11	.04			
00																			
	116	66353	1130	1136	25.88	22.88	4.18	2.09	.69	.12	.13	.11	.05	117	66353	1136	1142	REC	24. LENGTH
	27.19	23.30	4.29	2.14	.76	.10	.13	.11	.05	118	66353	1142	1148	27.39	23.59	4.27			402
	2.17	.74	.09	.13	.11	.05	119	66353	1148	1154	27.81	22.98	4.35	2.16	.75	.10			
	.13	.11	.05	120	66353	1154	1200	28.22	22.94	4.92	2.10	.68	.18	.33	.27	.12			
00																			
	138	66353	1342	1348	30.69	24.44	4.04	2.11	1.07	.16	.38	.38	.16	139	66353	1348	1354	REC	25. LENGTH
	30.30	25.16	4.98	2.35	.80	.11	.15	.12	.05	140	66353								

INCLUSIVE TIMES

DATE	INCLUSIVE TIMES								
06343	735- 744	754- 800	806- 824	830- 906	1018-1024	1030-1042	1100-1106	1212-1218	1400-1406
06346	448- 454	524- 530	700- 706	748- 754	900- 906	924- 942	948-1000	1112-1130	
06353	36- 806	1100-1200	1342-1536						
06357	2230-2400								
06358	0- 824	900-2400							
06359	0-2312								
06360	240-2400								
06362	0- 234								
06363	348- 436	524-2230	2236-2400						
06364	200- 424	436-2248	2254-2400						
06365	0-2400								
07001	0-2400								
07002	0-2400								
07004	36- 200	212-2400							
07005	0-2400								
07006	0-2400								
07007	0-2105								
07008	130- 636	642- 700	730-2400						
07009	0-1736	1448-2142	2230-2400						
07010	0-1718	1806-2400							
07011	0-2400								
07012	0-2400								
07013	0- 812	900-2400							
07014	0-2400								
07015	0-2400								
07016	0-2042	2142-2400							
07017	0-2400								
07018	0-2330								
07019	12-2400								
07020	0-2400								
07021	0-2400								
07022	0-2400								
07023	0-2400								
07024	0-2200	2230-2400							
07025	0- 42	54-1642	1712-2400						
07026	0-2400								
07027	0-2400								
07028	0-2400								
07029	0-2400								
07030	0-2000	2242-2400							
07031	0-2400								
07032	0-2400								
07033	0-2400								
07034	0-1500	1742-2400							
07035	0- 236	524- 624	712-1830						
07036	242-1900	2206-2400							
07037	0-2400								
07038	0-2400								
07039	0-2400								
07040	0-2400								
07041	0- 518								
07044	1418-1424	1542-2324	2330-2400						
07045	0-2400								
07046	0-2400								
07047	0-2400								

DATE INCLUSIVE TIMES

67048 0-2400
 67049 0-2400
 67050 0-2400
 67051 0-2400
 67052 0-2400
 67053 0-2218 2230-2400
 67054 0-30 36-2400
 67055 0-2400
 67056 0-600 730-2142 2254-2400
 67057 0-2400
 67058 0-254 300-2200 2212-2400
 67059 0-442 954-1606 1818-1648 1654-1830 1836-1906 1912-2400
 67060 0-2400
 67061 0-2400
 67062 0-2400
 67063 0-2400
 67064 0-336
 67067 1636-1642 1646-1654 1706-1812 1818-1824 1836-1848 1942-1948 2018-2024 2112-2124 2142-2312 2330-2342
 67067 2348-2400
 67068 0-24 36-106 136-142 442-454 518-524 1500-1506 1542-1548 1654-1730 1736-1812 1818-1830
 67068 1648-1854 1912-1918 1936-1948 2012-2018 2030-2036 2042-2048 2100-2106 2124-2130 2136-2254 2330-2400
 67069 0-6 48-160 118-124 1242-1248 1318-1324 1546-1500 1654-1742 1748-1812 1818-1848 1854-1924
 67069 1936-1954 2000-2006 2018-2024 2030-2048 2118-2130 2142-2248 2300-2306 2330-2336 2342-2348
 67070 36-100 130-136 200-218 324-330 336-342 354-406 412-442 930-936 1630-1636 1812-1942
 67070 1948-2006 2012-2042 2048-2054 2100-2118 2124-2130 2136-2212 2218-2312 416-412 424-442
 67071 6-24 112-118 200-212 218-236 248-254 300-306 330-336 354-400 416-412 424-442
 67071 448-454 518-548 600-612 648-654 1312-1318 2006-2018 2036-2042 2048-2118 2130-2136 2142-2312
 67071 2330-2336 2354-2400
 67072 0-6 30-36 106-112 136-142 512-518 524-536 612-618 636-642 848-854 1212-1218
 67075 1606-2400
 67076 0-2400
 67077 0-2400
 67078 0-2400
 67079 0-848 942-1606
 67082 1600-1812 1814-2400
 67083 0-248 342-2400
 67084 0-2400
 67085 0-512 954-1348 1424-2400
 67086 0-1600
 67090 1500-2400
 67091 0-1536 1624-2400
 67092 0-2400
 67093 0-1606
 67096 1600-2400
 67097 0-12 24-2400
 67098 0-2400
 67099 0-530 1218-2400
 67100 0-148 218-1606
 67103 1606-2400
 67104 0-2400
 67105 0-2248 2300-2400
 67106 0-1412 1442-1818 1618-1854 1906-2400
 67107 0-2230 2236-2400
 67108 0-1818
 67109 1400-2400

DATE INCLUSIVE TIMES

07110 0-2400
 07111 0-2336
 07112 6- 400 406-1012 1025-1700
 07114 0-224 242-2400
 07116 100-2400
 07117 0-224 236- 848 936-1142 1148-1218 1230-1254 1312-1330 1354-1412 1436-1442 1524-2324 2336-2400
 07118 0-1506 1930-2006 2306-2512 2318-2400
 07119 0- 44 100-2400
 07120 0- 200 218-1024 1036-2300 2318-2324 2336-2400
 07121 0-1400
 07122 442-1212 1642-2106 2130-2400
 07123 0-1036 1406-1518 1524-1530 1536-2230 2236-2400
 07124 0- 300 306-2400
 07125 0- 54
 07140 1600-2400
 07141 0-2400
 07142 0-1600
 07146 1600-1942 2000-2254 2300-2400
 07146 0- 6 18-1518
 07147 800- 900
 07152 24- 154 212- 218 242- 248 312-1648 1724-2400
 07153 118- 736 742-2400
 07154 0- 214 224-1106 1124-2400
 07155 0-2400
 07156 0-1000
 07158 1054-1924 1930-1936 2024-2030 2200-2206 2224-2242 2254-2306 2318-2324
 07159 406-1754 1800-2400
 07160 0-1442 1500-2142
 07164 1424-2400
 07165 0- 18 54-2400
 07166 0-1424 1430-2254
 07167 12-1454 1500-2400
 07168 0-2400
 07169 0-1930 1936-2400
 07170 0-2400
 07171 0- 6 48-2400
 07172 0-1130 1348-2400
 07173 0-2400
 07174 0- 44 100-2400
 07175 0-1406 1412-2400
 07176 0- 636 648-2024 2112-2400
 07177 0-2400
 07178 0-2400
 07179 0-2118 2130-2400
 07180 0-2400
 07181 0-2400
 07182 0-1312 1442-1724 1800-1806 1824-2318 2324-2400
 07183 0- 18
 07210 0-1006 1036-2400
 07211 0- 854 906-1618 1654-2400
 07212 0- 854 906-2400
 07213 0-2400
 07214 0-1218 1224-2336 2348-2400
 07215 0-2400
 07216 0-2400

DATE INCLUSIVE TIMES

67217 0-1105 1118-2400
 67218 0-1200 1206-2400
 67219 0-2400
 67220 0- 48 130-2400
 67221 0-2400
 67222 0-1130 1136-2200 2218-2400
 67223 0- 148 912-2400
 67224 0- 118 1100-2400
 67225 0- 342 348-2400
 67226 0-2400
 67227 0-1506 1536-2330
 67228 0-1148 1512-2400
 67229 0- 248 254- 412 418-2400
 67230 0-1436 1442-2400
 67231 0-2400
 67232 0-2400
 67233 0-2400
 67234 0- 18 36-2400
 67235 12-2342 2348-2400
 67236 0- 848 2218-2348
 67237 830-2400
 67238 0- 324 342-1218 1254-2330
 67239 6-2400
 67240 0- 236 242-2400
 67241 0- 206 212-2400
 67242 0- 218 230-1206 1236-2400
 67243 0-2400
 67244 0- 36 100-2400
 67245 0-2224 2248-2400
 67246 0-2400
 67247 0-2400
 67248 0-2400
 67249 0-2400
 67250 0-2400
 67251 0-2400
 67252 0- 230 312-2248 2306-2312 2330-2400
 67253 0- 242 248-2400
 67254 0-2106 2154-2400
 67255 0- 12 18- 130 136-1342 1424-2400
 67256 0- 818 1118-2400
 67257 0- 900 954-2400
 67258 42- 130 224-2118 2154-2400
 67259 0- 142 236- 830 1106-1642 1700-2036 2100-2400
 67260 0- 324 330- 830 1100-2400
 67261 0-2400
 67262 0- 842 1100-1806 1818-2136 2142-2400
 67263 0- 30 48-1024 1206-2054 2100-2400
 67264 0- 836 1100-2400
 67265 0- 754 1100-2400
 67266 0- 806 1100-2400
 67267 0- 18 124- 800 1142-2400
 67268 0-2400
 67269 24-1618 1624-2054 2100-2400
 67270 0- 742 754-1954 2012-2400
 67271 0- 800

DATE INCLUSIVE TIMES

67272 318- 324 1135-2400
 67273 0-2400
 67274 0-2000 2018-2400
 67275 0- 800 1100-1812 1830-2400
 67276 0-1800 1812-2400
 67277 0- 224 230-2400
 67278 0- 124 130-2230 2310-2400
 67279 0- 648 654-2400
 67280 0-2400
 67281 0- 206 212-2400
 67282 0-2400
 67283 0-1824 1836-2400
 67284 0- 924 954-1048 1700-2400
 67285 0-2400
 67286 0- 24 36- 806 1200-2318
 67287 200-2400
 67288 0-2048 2130-2400
 67289 0- 24 48-2400
 67290 0-1054 1654-2400
 67291 0-2400
 67292 0-1200 1218-1930 1936-2400
 67293 0-1100 1700-1812 1818-2400
 67294 0-2212 2218-2400
 67295 0-2400
 67296 0- 518 554- 606 648- 706 742- 812 836- 848 930- 948 1030-1054 1124-2400
 67297 0-2400
 67298 0-2400
 67299 0- 930 936-2030
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DATE INCLUSIVE TIMES

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