

Data Set Catalog # 199

Explorer 41, Count Rate Encyclopedia Tapes
69-053A-07B 37 tapes

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

IMF-G

COUNT RATES ON ENCYCLOPEDIA TAPES

69-053A-07B

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 37 9-TRACK, 800 BPI TAPES. THERE ARE 6 RESTORED TAPES AT 9-TRACK, 6250 BPI. THE TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE ROUND. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02930	DS02930	D10499	1	06/21/69 - 07/26/69
		D10500	2	07/26/69 - 08/29/69
		D10501	3	08/29/69 - 10/03/69
		D10502	4	10/03/69 - 12/09/69
		D10503	5	12/09/69 - 12/17/69
		D10504	6	12/17/69 - 01/17/70
DR02931	DS02931	D10505	1	01/17/70 - 02/20/70
		D10506	2	02/20/70 - 03/27/70
		D10507	3	03/27/70 - 04/30/70
		D10508	4	04/30/70 - 06/03/70
		D10509	5	06/03/70 - 07/06/70
		D10510	6	07/06/70 - 08/09/70
DR02932	DS02932	D10511	1	08/09/70 - 08/25/70
		D10512	2	08/25/70 - 09/28/70
		D11867	3	09/28/70 - 11/01/70
		D11868	4	11/02/70 - 12/09/70
		D11869	5	12/10/70 - 01/13/71
		D11870	6	01/14/71 - 02/15/71
DR02933	DS02933	D11871	1	02/15/71 - 03/21/71
		D11872	2	03/21/71 - 04/11/71
		D11873	3	04/11/71 - 05/15/71
		D11874	4	05/15/71 - 06/17/71
		D11875	5	06/17/71 - 07/22/71
		D11876	6	07/22/71 - 08/24/71
DR02937	DS02937	D11877	1	08/24/71 - 09/27/71
		D11878	2	09/27/71 - 10/31/71
		D11879	3	10/31/71 - 11/15/71
		D11880	4	02/01/72 - 03/06/72
		D11881	5	03/06/72 - 04/10/72
		D11882	6	04/10/72 - 05/13/72

DR#	DS#	D#	FILES	TIME SPAN
DR02938	DS02938	D11883	1	05/13/72 - 06/17/72
		D11884	2	06/17/72 - 07/23/72
		D11885	3	07/23/72 - 08/28/72
		D11886	4	08/28/72 - 10/03/72
		D11887	5	10/03/72 - 11/06/72
		D11888	6	11/06/72 - 12/12/72
		D11889	7	12/12/72 - 12/24/72

EXPLORER 41

COUNT RATE ENCYCLOPEDIA TAPES

69-053A-07B

This data set consists of Explorer 41 Count Rate Encyclopedia tapes.

The tapes are 800 BPI, Binary, 9 track. *C-tapes are 7 1/2* Each contains one file of Count Rate Encyclopedia data.

Physical records are blocked with 20 logical records. Each logical record contains 176 32-bit words. The ID and data records are interspaced throughout each record. See the attached formats for the data and identification record formats.

The time spans are as follows:

<u>D#</u>	<u>C#</u>	<u>ORBITS</u>	<u>START TIME</u>	<u>STOP TIME</u>
D-10499	C-08030	1- 11	6/21/69	7/26/69
D-10500	C-08031	11- 21	7/26/69	8/29/69
D-10501	C-08032	21- 31	8/29/69	10/03/69
D-10502	C-08033	31- 42	10/03/69	12/09/69
D-10503	C-08034	42- 52	12/09/69	12/17/69
D-10504	C-08035	52- 63	12/17/69	1/17/70
D-10505	C-08036	63- 73	1/17/70	2/20/70
D-10506	C-08037	73- 83	2/20/70	3/27/70
D-10507	C-08205	83- 94	3/27/70	4/30/70
D-10508	C-08038	94-104	4/30/70	6/03/70
D-10509	C-08039	104-114	6/03/70	7/06/70
D-10510	C-08040	114-124	7/06/70	8/09/70
D-10511	C-08041	124-129	8/09/70	8/25/70
D-10512	C-08042	129-139	8/25/70	9/28/70

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-11867	C-09205	9/28/70	11/01/70
D-11868	C-09206	11/02/70	12/09/70
D-11869	C-09207	12/10/70	1/13/71
D-11870	C-09208	1/14/71	2/15/71
D-11871	C-09209	2/15/71	3/21/71
D-11872	C-09210	3/21/71	4/11/71
D-11873	C-09211	4/11/71	5/15/71
D-11874	C-09212	5/15/71	6/17/71
D-11875	C-09213	6/17/71	7/22/71
D-11876	C-09214	7/22/71	8/24/71
D-11877	C-09215	8/24/71	9/27/71
D-11878	C-09216	9/27/71	10/31/71
D-11879	C-09217	10/31/71	11/15/71
D-11880	C-09218	2/01/72	3/06/72
D-11881	C-09219	3/06/72	4/10/72
D-11882	C-09220	4/10/72	5/13/72
D-11883	C-09221	5/13/72	6/17/72
D-11884	C-9472	6/17/72	7/23/72
D-11885	C-09222	7/23/72	8/28/72
D-11886	C-09223	8/28/72	10/03/72
D-11887	C-09224	10/03/72	11/06/72
D-11888	C-09225	11/06/72	12/12/72
D-11889	C-09226	12/12/72	12/24/72

TAPE FORMAT INFORMATIONID Record Format
67-059A-07B

<u>Item Number</u>	<u>Identification</u>	<u>Format</u>
1	= 1 (ID Record)	I
2	Unused	
3	ID record/data record link	I
4	Start record unique number	I
5	Stop record unique number	I
6	Start pseudo-sequence count	I
7	Stop pseudo-sequence count	I
8	Unused	
9	Unused	
10	Unused	
11	Experimenter ID	I
12	Satellite ID	I
13	Orbit number	I
14	Telemetry recording station number	I
15	Analog tape number	I
16	Analog-to-digital line ID (1 = F9, 2 = F8)	I
17	Day of year Start time	I
18	Milliseconds of day for this file	I
19	Day of year Stop time	I
20	Milliseconds of day for this file	I
21	Average sequence time (milliseconds)	I
22	*Quick-look data flag	I
23	*Orbit/no orbit data flag	I
24	Decom process date year	I
25	Decom process date month	I
26	Decom process date day	I
27	Decom process date hour	I
28	Orbit tape ID reel number	I
29	Orbit tape date of generation year	I
30	Orbit tape date of generation month	I
31	Orbit tape date of generation day	I
32	Average spin period (milliseconds)	I
33	Year of start time (right adjusted, 2 digits)	I
34	Year of stop time (right adjusted, 2 digits)	I
35-176	Unused	

*See explanation on following page.

Item 22 - Quick-Look Data Flag for ID Records

- 0 = no sequence clock corrections, no frame time corrections applied to this file, therefore data is quick-look.
- 1 = Phase I sequence clock corrections and frame time corrections have been applied to this file, but final corrections have not been made, therefore, data is quick-look.

Item 23 - Orbit/No Orbit Data Flag for ID Records

- 0 = no orbit data included on this file. Fill characters are used in orbit item locations.
- 1 = "final" orbit data included on this file.
- 2 = preliminary orbit data included on this file.
- 3 = predicted orbit data included on this file.

Data Record Format

<u>Item Number</u>	<u>Identification</u>	<u>Format</u>
1	= 2 (data record)	I
2	= 1 - no other record has overlapped with this one (on input experimenter decom tapes)	I
	= 2 - overlap, choice made on time quality	
	= 3 - overlap, choice made on data quality (no difference in time quality)	
	= 4 - overlap, choice made on missing data (no difference in time or data quality)	
3	ID record/data record link	I
4	On/off flags all eight sequences	I
5	Number of bad time quality flags in record	I
6	Number of times Data Quality Flag-4 was bad in record	I
7	Number of missing data in record	I
8	Data quality index for record	I
9	Unique number for record	I
10-14	Unused	
15-22	Standard deviation for eight sequences	F
23-158	Eight consecutive sequences of 17 words are arranged as shown on the following page.	
159	Day of orbit data (Jan 1 = Day 1)	I
160	Milliseconds of day	I
161	Geocentric longitude satellite position (deg)	F
162	Geocentric latitude satellite position (deg)	F
163	Radial distance from center of earth (km)	F
164	X solar ecliptic satellite position (km)	F
165	Y solar ecliptic satellite position (km)	F
166	Z solar ecliptic satellite position (km)	F
167	Magnitude of velocity (km/sec)	F
168	R geomagnetic coordinate (earth radii)	F
169	λ geomagnetic coordinate (deg)	F
170	L McIlwain magnetic shell radius (earth radii)	F
171	B magnetic field strength (gammas)	F
172	B/B ₀	F
173	L _{SEP} (sun-earth-probe angle) (deg)	F
174	X solar magnetosphere satellite position (km)	F
175	Y solar magnetosphere satellite position (km)	F
176	Z solar magnetosphere satellite position (km)	F

Item Numbers 23-158

<u>Definition</u>	<u>Seq-0</u>	<u>Seq-1</u>	<u>Seq-2</u>	<u>Seq-3</u>	<u>Seq-4</u>	<u>Seq-5</u>	<u>Seq-6</u>	<u>Seq-7</u>	<u>Format</u>
Day of Year	23	40	57	74	91	108	125	142	I
Milliseconds	24	41	58	75	92	109	126	143	I
Time Quality Flag	25	42	59	76	93	110	127	144	I
Data Quality Flag-1	26	43	60	77	94	111	128	145	I
Data Quality Flag-2	27	44	61	78	95	112	129	146	I
Data Quality Flag-3	28	45	62	79	96	113	130	147	I
Data Quality Flag-4	29	46	63	80	97	114	131	148	I
Count Rate	30	47	64	81	98	115	132	149	F
Pseudo-Seq-CT QF	31	48	65	82	99	116	133	150	I
Pseudo-Seq-Ct	32	49	66	83	100	117	134	151	I
Seq-ID-QF	33	50	67	84	101	118	135	152	I
Seq-ID	34	51	68	85	102	119	136	153	I
Satellite Clock	35	52	69	86	103	120	137	154	I
Volts	36	53	70	87	104	121	138	155	F
Temperature	37	54	71	88	105	122	139	156	F
Accumulation Mode	38	55	72	89	106	123	140	157	I
-Unused-	39	56	73	90	107	124	141	158	

NOTES ON DATA WORDS

<u>Data Word</u>	<u>Explanation</u>										
4	On/off flags - to be read as sequence of eight binary bits, where a 0 in a particular location means the counting was "off" for the corresponding sequence, and a 1 means counting on.										
8	Data quality index for record - numerical value between -32 and +128 determined as follows: take all 32 data quality flags per record; convert each 0 to -1, each 1 to 4, each 2 to 1, and each 3 to 0; sum the converted numbers to obtain a number between -32 and +128.										
15 - 22	Standard deviation - computed as dead-time corrected count rate divided by square root of number of counts in accumulation period for count rates up to 1700 cps, as dead time corrected count rate divided by square root of observed count rate for observed count rates between 1.7×10^3 and 10^4 cps, or as percentage dead time for observed count rates above 10^4 cps.										
24, 42, etc.	Time quality flag -										
	<table border="0"> <tr> <td>bit configuration</td> <td>time quality</td> </tr> <tr> <td>00</td> <td>Good</td> </tr> <tr> <td>01</td> <td>Corrected</td> </tr> <tr> <td>10</td> <td>Bad</td> </tr> <tr> <td>11</td> <td>Undetermined</td> </tr> </table>	bit configuration	time quality	00	Good	01	Corrected	10	Bad	11	Undetermined
bit configuration	time quality										
00	Good										
01	Corrected										
10	Bad										
11	Undetermined										
26, 27, etc.	Data quality flag -										
	<table border="0"> <tr> <td>bit configuration</td> <td>data quality</td> </tr> <tr> <td>11</td> <td>Good</td> </tr> <tr> <td>10</td> <td>Fair</td> </tr> <tr> <td>01</td> <td>Undetermined</td> </tr> <tr> <td>00</td> <td>Bad</td> </tr> </table>	bit configuration	data quality	11	Good	10	Fair	01	Undetermined	00	Bad
bit configuration	data quality										
11	Good										
10	Fair										
01	Undetermined										
00	Bad										

Data Word

Explanation

In generating these tapes, the fourth of the original data quality flags associated with a given detector reading was replaced by the worst of the original four data quality flags associated with that reading. Thus "Data Quality Flag-4" (words 29, 46, 63,...148) suffices for data quality information. Note that data quality flags relate to the noisiness of bit transmission.

30, 47, etc.

Count rate - These are dead-time corrected count rates (cps) computed by the experimenter from the detector readings.

32, 49, etc.
35, 52, etc.

Pseudo-sequence count and sequence clock - These items increment by one each 20.454-sec sequence, except that there are time intervals near apogee shadows (~~March 1968 and March 1969~~) during which only the pseudo-sequence count increments.

32, 51, etc.

Sequence ID - This item runs from 0 through 7 for each 8-sequence logical record. The bit configuration of this 3-bit item is the same as the configuration for the three low order bits of the satellite clock. The Sequence-ID may be used to identify the counting mode for the count rate preceding it according to:

Sequence ID	Mode
0	60 Mev protons
1	1-10 Mev protons
2	3.6 Mev energy 1-10 MeV/N deposition Alpha Particles
3	10 Mev protons
4	30 Mev protons
5	1-10 Mev protons
6	3.6 Mev energy 1-10 MeV/N deposition Alpha Particles
7	10 Mev protons

<u>Data Word</u>	<u>Explanation</u>
36, 53, etc.	Volts - Taken off a nominal 11.7-volt line. The voltage was never outside the range of reliable instrument performance during data acquisition.
37, 54, etc.	Temperature - Taken at BTL experiment (near APL experiment). The temperature was never outside the range of reliable instrument performance during data acquisition.
58, 55, etc.	Accumulation mode - =0 for S (scalar) mode and =1 for T (time) mode. These were two modes of experiment operation used according to whether more than 15 bits were required to count particles in a given 19.2-sec accumulation period (count rate 1700 cps). This information is not important because count rates as derived by the experimenter from detector readings are given on these tapes.
159, 160	Time of ephemeris data - Coincides with time of first sequence of eight in logical record.
161, 162	Geocentric longitude and latitude - In celestial inertial coordinate system (X axis points to Aries; Z axis along earth spin axis).
164 - 166	Solar ecliptic coordinates - (X axis towards sun; X axis normal to ecliptic plane)
168, 169	Geomagnetic radial distance and latitude - As defined by McIlwain, <u>J. Geophys. Res.</u> , <u>66</u> , 3681, 1961, in terms of B, L: $B = \frac{M}{L^3} \left(4 - 3 \frac{R}{L} \right)^{1/2}$ $L = R \sec^2 \lambda$
174 - 176	Solar magnetospheric coordinates - (X axis towards sun; Z axis northward in plane containing X axis and geomagnetic dipole axis).

00000001	00000000	00000065	0006206E	00062086	00007060	00007120	00000000	00000000	00000000
00000007	0000000E	00000001	00000010	00000002	00000000	00000000	026703A6	000000AC	02A2A0D2
00004FE7	00000002	00000001	00000045	00000008	00000014	00000000	00000001	00000045	00000008
0000000F	000000B1	00000045	00000045	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
409DC447	402C38C5	40120B2E	41895F45	40B1651F	4038919A	40120B2E	418B0508	000000AC	026703A6
00000001	00000003	00000003	00000003	00000003	4174AB89	00000000	00007060	00000000	00000000
00007060	41BB15B5	41DC89CD	00000000	00000000	000000AC	0267538C	00000001	00000003	00000003
00000003	00000003	4092AAC1	00000000	00007061	00000000	00000001	00007061	41BB15B5	C1D3D7C8
00000000	00001A40	000000AC	0267A373	00000001	00000003	00000003	00000003	00000003	401AAAAA
00000000	00007062	00000000	00000002	00007062	41BB15B5	41DC89CD	00000000	404040E2	000000AC
0267F35A	00000001	00000003	00000003	00000003	00000003	4357F68F	00000000	00007063	00000000
00000003	00007063	41BB15B5	C9E3E222	00000000	00000000	000000AC	02684341	00000001	00000003
00000003	00000003	00000003	41938165	00000000	00007064	00000000	00000004	00007064	41BB15B5
41DC89CD	00000000	41128004	000000AC	02689328	00000001	00000003	00000003	00000003	00000003
40F0003C	00000000	00007065	00000000	00000005	00007065	41BB15B5	00000000	00000000	00000065
000000AC	0268E30E	00000001	00000003	00000003	00000003	00000003	401AAAAA	00000000	00007066
00000000	00000006	00007066	41BB15B5	41DC89CD	00000000	982CD01C	000000AC	026932F5	00000001
00000003	00000003	00000003	00000003	435A12D5	00000000	00007067	00000000	00000007	00007067
41BB15B5	D11C58F0	00000000	6C00D1B8	000000AC	026703A6	42180664	C2188698	44965C31	4460A115
4422592A	C46DF5AA	41410117	4175F5D1	C2193583	4178A95E	42AC7C17	4125FA82	423202B9	4460A115
4391CFCA	C472D6A6	00000002	00000001	00000065	000000FF	00000000	00000000	00000000	00000003
0006206F	00000000	00000000	00000000	00000000	00000000	409F72BE	4033A3D3	00000000	418563A2
40C0C423	40280005	00000000	418BF5E7	000000AC	026982DC	00000001	00000002	00000002	00000003
00000002	41772B93	00000000	00007068	00000000	00000000	00007068	41BB15B5	41DC89CD	00000000
00000000	000000AC	0269D2C3	00000001	00000003	00000003	00000003	00000003	40C8002A	00000000
00007069	00000000	00000001	00007069	41BB15B5	C1D3D7C8	00000000	00001A40	000000AC	026A22A9
00000001	00000003	00000003	00000003	00000003	00000000	00000000	0000706A	00000000	00000002
0000706A	41BB15B5	41DC89CD	00000000	404040E2	000000AC	026A7290	00000001	00000003	00000003
00000003	00000003	43543461	00000000	00007065	00000000	00000003	0000706B	41BB15B5	C9E3E222
00000000	00000000	000000AC	026AC277	00000001	00000003	00000003	00000003	00000003	41A2E2C9C
00000000	0000706C	00000000	00000004	0000706C	41BB15B5	41DC89CD	00000000	41128004	000000AC
026B125E	00000001	00000003	00000003	00000003	00000003	4078000F	00000000	0000706D	00000000
00000005	0000706D	41BB15B5	00000000	00000000	00000065	000000AC	026B6244	00000001	00000003
00000003	00000003	00000003	00000003	00000000	0000706E	00000000	00000006	0000706E	41BB15B5
41DC89CD	00000000	982CD01C	000000AC	026B522B	00000001	00000003	00000003	00000003	00000003
43577091	00000000	0000706F	00000000	00000007	0000706F	41BB15B5	D11C58F0	00000000	6C00D1B8
000000AC	026982DC	421A64DA	C21813E2	4498A7A3	4462F53E	44230FE5	C46ED25D	41406369	4176A84B
C218A3A6	41795307	42A3A139	4124A01F	42319740	4462F53E	439A2D61	C473D5FC	00000002	00000001
00000065	000000FF	00000000	00000000	00000000	00000000	00062070	00000000	00000000	00000000
00000000	00000000	40B063CE	4047CD76	3FD55559	418975C3	40C80266	404EE1AE	00000000	4189A162
000000AC	026C0212	00000001	00000003	00000003	00000003	00000003	4191D6B2	00000000	00007070
00000000	00000000	00007070	41BB15B5	41D597B7	00000000	00000000	000000AC	026C51F9	00000001
00000003	00000003	00000003	00000003	41182AB3	00000000	00007071	00000000	00000001	00007071
41BB15B5	C1D3D7C8	00000000	00001A40	000000AC	026CA1DF	00000001	00000003	00000003	00000003
00000003	3FD55559	00000000	00007072	00000000	00000002	00007072	41BB15B5	41D597B7	00000000
404040E2	000000AC	026CF1C6	00000001	00000003	00000003	00000003	00000003	43581337	00000000
00007073	00000000	00000003	00007073	41BB15B5	C9E3E222	00000000	00000000	000000AC	026D41AD
00000001	00000003	00000003	00000003	00000003	41BB8240	00000000	00007074	00000000	00000004
00007074	41BB15B5	41DC89CD	00000000	00000000	00000000	00000000	00000001	00000003	00000003

START DAY

YES

NO

D-10499
C-08030

800, BIN, 1, File

6/21/69 -
7/26/69

ORBITS 1-11

C-Tapes are 27 by

2

00000003	00000003	411D2AB7	00000000	00007075	00000000	00000005	00007075	41B515B5	00000000
00000000	00000065	000000AC	026DE17B	00000001	00000003	00000003	00000003	00000003	00000000
00000000	00007076	00000000	00000006	00007076	41B515B5	41DC89CD	00000000	982CD01C	000000AC
026E3161	00000001	00000003	00000003	00000003	00000003	43584AD6	00000000	00007077	00000000
00000007	00007077	41B515B5	D11C58F0	00000000	6C00D1B8	000000AC	026C0212	4219A4B3	C21794AB
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