

DSC # 1

DATA SET CATALOG INDEX

EXPLORER 4 (1958 Epsilon I)
Charged Particle Experiment

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A. 58-005A-01A

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B. 58-005A-01B

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3. Partial listing of D-00618
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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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 4

Charged Particle 'A'
58-005A-01A

556 BPI, BCD, 7 Track, 1 File, CDC TAPE

D #	C #	START	STOP
D-00290	C-00100	7/26/58	9/21/58
D-00291	C-02557	7/26/58	9/21/58

Note: These tapes are not chronologically ordered.

COMMENTS FOR CDC FORMAT TO EXPLORER IV DATA PAGE
NSSDC TAPE NUMBER D00290 AND D00291

- OIA The previous page shows the tape format for the CDC tapes of Explorer IV. This format shows that the title record occurs every 60th record - this is in error, the title record occurs every 61st record. The format page also lists the density as being 200 BPI - this is in error, the density is 556 BPI.
- OIB A new tape - NSSDC tape number D00618 - which is time ordered and eliminates all the Title Records has been produced on the IBM 7094/2 combining both aforementioned tapes. The format for this new tape is shown on the following page.

ITEM 4-

58-005A-01A

FORM FOR REVIEW IN MIA

FORM

IDENTITY

LOGICAL RECORD LENGTH

530 BPI
← 530 BPI → NOTE COMMENTS, NEXT PAGE.

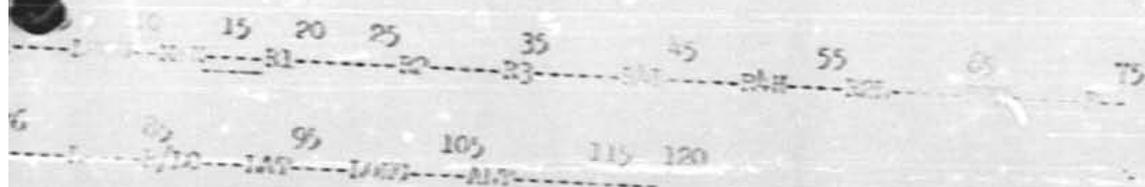
10 633 words or 120 characters

PHYSICAL RECORDS- LOGICAL RECORDS

15734 RECORDS EVERY 60th RECORD → NOTE COMMENTS, NEXT PAGE.

CHARACTERS	PARAMETER	RECORD
1	Blank	1X
2-3	Month	1A
4-6	Day	1B
7-9	Year	1C
10	Blank	1X
11-	Minutes to nearest tenth	F8.1
15-	Directional (Channel 1)	F8.1
23-24	Directional Average (Channel 2)	F8.1
31-32	Directional (Channel 3)	F8.1
39-40	Directional Minimum (Channel 4)	F8.1
47-	Directional Maximum (Channel 5)	F8.1
55-	Directional Minimum (Channel 2)	F7.1
63-64	Directional Maximum (Channel 2)	F7.1
69-	B	F7.1
77-	L	F8.1
85-86	E/10	F8.3
93-	Latitude	F7.2
99-105	Longitude	F7.2
106-112	Altitude in kilometers	F7.1
113-120	Blanks	8X

*For... record(-) indicates blanks



DATA SET CATALOG # 1

Explorer 4 Charged Particle

58-005A-01A	2 tapes
58-005A-01B	1 tape
58-005A-01C	1 tape

EXPLORER 4

ST. ORDERED UCSD COUNT RATE

[58-005A-01A](#)

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED TWO 7-TRACK, 556 BPI TAPES WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS NUMBER IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A 6600 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
DR002857	DS002857	D000290	1	07/26/58 - 09/21/58
		D000291	2	07/26/58 - 09/21/58

EXPLORER 4

TIME ORDERED COUNT RATES

58-005A-01B

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT
CONTAINED ONE 7-TRACK, 556 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
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#	DD#	FILES	TIME SPAN
DR003100	DS003100	DD000618	1	07/26/58 - 09/21/58

EXPLORER 4

ST. ORDERED UCSD COUNT RATE

[58-005A-01A](#)

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED TWO 7-TRACK, 556 BPI TAPES WRITTEN IN ASCII. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS NUMBER IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON A 6600 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
DR002857	DS002857	D000290	1	07/26/58 - 09/21/58
		D000291	2	07/26/58 - 09/21/58

EXPLORER 4

TIME ORDERED COUNT RATES, TAPE

58-005A-01B

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 7-TRACK, 556 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 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
DR003100	DS003100	D000618	1	07/26/58 - 09/21/58

EXPLORER 4

COUNT RATES - RECAL. B AND L, TAPE

58-005A-01C

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 7-TRACK, 556 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 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#	DD#	FILES	TIME SPAN
DR004160	DS004160	D000080	1	07/26/58 - 09/21/58

EXPLORER 4

COUNT RATES - RECAL. B AND L

58-005A-01C

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 7-TRACK, 556 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 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#	DD#	FILES	TIME SPAN
DR004160	DS004160	D000080	1	07/26/58 - 09/21/58

58-005A-01A

2	LHOU	MIN	R1	R2	R3	R4L	R4H	R2L	R2H
LCNG	ALT								
7027002	59.5		.0	6770.0	4826.0	.0	.0	.0	.0
77.99	2200.1								
7027003	7.0	1097.0		4357.0	1681.0	.0	.0	.0	.0
94.09	2217.8								
7027003	7.6		.0	4344.0	1512.0	.0	.0	.0	.0
95.63	2213.1								
7027003	8.1		.0	4216.0	1377.0	.0	.0	.0	.0
96.94	2208.5								
7027003	8.5		.0	4007.0	.0	.0	.0	.0	.0
98.01	2204.4								
7027003	8.6		.0	.0	1205.0	.0	.0	.0	.0
98.29	2203.3								
7027003	9.5	411.0		3781.0	.0	.0	.0	.0	.0
00.79	2192.3								
7027003	10.0		.0	3657.0	.0	.0	.0	.0	.0
02.23	2185.4								
7027003	10.3		.0	815.0	.0	.0	.0	.0	.0
03.11	2180.9								
7027010	57.0		.0	3442.0	2090.0	.0	.0	.0	.0
32.73	1114.8								
7027010	57.5		.0	3328.0	2090.0	.0	.0	.0	.0
34.01	1086.2								
7027010	58.5		.0	2926.0	1873.0	.0	.0	.0	.0
36.51	1029.1								
7027010	59.0		.0	2477.0	1665.0	.0	.0	.0	.0
37.73	1000.7								
7027010	59.5		.0	2103.0	1484.0	.0	.0	.0	.0
38.94	972.4								
7027010	59.8		.0	1792.0	1313.0	.0	.0	.0	.0
39.65	955.4								
7027011	.5		.0	1256.0	994.0	.0	.0	.0	.0
01.31	916.2								
7028002	52.0		.0	6715.0	4708.0	.0	.0	.0	.0
06.78	2191.3								
7028002	54.2		.0	5605.0	3641.0	.0	.0	.0	.0
11.12	2213.4								
7028002	54.5		.0	5501.0	3471.0	.0	.0	.0	.0
11.74	2215.5								
7028002	54.9		.0	5389.0	3303.0	.0	.0	.0	.0
12.58	2218.0								
7028002	55.6		.0	5120.0	2970.0	.0	.0	.0	.0

R2L	R2H	B	PARTIAL L	BCD LISTING OF B/80	D-00290 LAT	REC	NOT TIME ORDERED 1. LENGTH	120
.0	.0	.1271	1.4777	1.387	-28.19	2	REC	2. LENGTH 120
.0	.0	.1342	1.7205	1.420	-40.24	2	REC	3. LENGTH 120
.0	.0	.1351	1.7450	1.422	-41.08	2	REC	4. LENGTH 120
.0	.0	.1358	1.7659	1.424	-41.75	2	REC	5. LENGTH 120
.0	.0	.1365	1.7838	1.425	-42.28	2	REC	6. LENGTH 120
.0	.0	.1366	1.7884	1.425	-42.41	2	REC	7. LENGTH 120
.0	.0	.1381	1.8286	1.427	-43.55	3	REC	8. LENGTH 120
.0	.0	.1390	1.8519	1.428	-44.15	3	REC	9. LENGTH 120
.0	.0	.1395	1.8662	1.429	-44.50	3	REC	10. LENGTH 120
.0	.0	.1439	1.3139	1.228	-29.83	2	REC	11. LENGTH 120
.0	.0	.1827	1.2953	1.225	-28.68	2	REC	12. LENGTH 120
.0	.0	.1810	1.2622	1.219	-26.31	2	REC	13. LENGTH 120
.0	.0	.1805	1.2479	1.215	-25.09	2	REC	14. LENGTH 120
.0	.0	.1304	1.2347	1.211	-23.84	2	REC	15. LENGTH 120
.0	.0	.1805	1.2276	1.209	-23.09	2	REC	16. LENGTH 120
.0	.0	.1812	1.2126	1.203	-21.29	2	REC	17. LENGTH 120
.0	.0	.1296	1.4930	1.384	-29.33	2	REC	18. LENGTH 120
.0	.0	.1309	1.5560	1.396	-33.08	2	REC	19. LENGTH 120
.0	.0	.1311	1.5654	1.398	-33.58	2	REC	20. LENGTH 120
.0	.0	.1314	1.5781	1.400	-34.23	2	REC	21. LENGTH 120
.0	.0	.1320	1.6004	1.403	-35.36	2	REC	22. LENGTH 120

34.08 2221.3

7028002 57.0 .0 4625.0 2276.0 .0 .0 .0 .0 .1
37.23 2224.2

7028002 58.0 1280.0 4404.0 1958.0 .0 .0 .0 .0 .1
39.60 2223.3

7028002 58.6 1097.0 4216.0 1689.0 .0 .0 .0 .0 .1
31.08 2221.5

7028002 59.1 .0 4096.0 1575.0 .0 .0 .0 .0 .1
32.34 2219.4

7028002 59.5 1024.0 4007.0 1418.0 .0 .0 .0 .0 .1
33.37 2217.2

1070

8019012	56.5	183.0	1755.0	341.0	.3	1.8	853.0	4096.0
21.83	1266.5							
8021020	21.6	404.0	3012.0	.0	.5	3.8	1463.0	6827.0
33.18	2038.5							
8021020	22.0	427.0	3103.0	956.0	.7	4.9	1138.0	6827.0
33.68	2028.6							
8021020	22.5	512.0	3614.0	.0	.7	4.2	1575.0	10240.0
34.75	2015.8							
8022019	58.8	12.9	.0	.0	.3	.7	.0	.0
22.76	2141.1							
8022019	59.0	14.3	1205.0	103.0	.4	1.8	.0	.0
23.18	2139.3							
8022019	59.6	15.2	890.0	.0	.3	.9	.0	.0
24.42	2133.2							
8022020	.0	22.3	1321.0	141.0	.3	1.2	1024.0	1707.0
25.23	2128.7							
8022020	.5	30.3	1536.0	.0	.3	1.2	931.0	2276.0
26.22	2122.5							
8022020	1.0	42.7	1280.0	197.0	.0	.0	931.0	2048.0
27.20	2115.7							

8/22

853.0	4096.0	.1961	1.8113	1.294	-27.81	REC	1. LENGTH	120
1463.0	6827.0	.1532	1.8217	1.386	-23.62	REC	2. LENGTH	120
1138.0	6827.0	.1535	1.7942	1.382	-22.86	REC	3. LENGTH	120
1575.0	10240.0	.1538	1.7598	1.376	-21.89	REC	4. LENGTH	120
.0	.0	.1500	2.2042	1.437	-33.28	REC	5. LENGTH	120
.0	.0	.1501	2.1908	1.436	-32.94	REC	6. LENGTH	120
.0	.0	.1502	2.1500	1.432	-31.92	REC	7. LENGTH	120
1024.0	1707.0	.1504	2.1212	1.429	-31.23	REC	8. LENGTH	120
931.0	2276.0	.1505	2.0857	1.425	-30.35	REC	9. LENGTH	120
931.0	2048.0	.1507	2.0505	1.421	-29.47	REC	10. LENGTH	120

8022020 1.0	42.7	1280.0	197.0	.0	.0	931.0	2048.0	.15
27.20 2115.7								
8022020 1.5	54.5	2353.0	.0	.0	.0	.0	.0	.15
28.15 2106.3								
8024019 22.0	9.1	.0	.0	.4	1.1	.0	.0	.14
21.32 2148.7								
8024019 22.4	10.7	.0	81.9	.0	.0	.0	.0	.14
22.18 2147.2								
8024019 23.1	12.9	.0	102.0	.2	.8	.0	.0	.14
23.64 2145.3								
8024019 23.5	.0	.0	.0	.4	1.1	.0	.0	.14
24.46 2143.3								
8024019 24.0	.0	1138.0	126.0	.0	.0	.0	.0	.14
25.46 2140.3								
8024019 24.1	23.1	.0	.0	.4	1.1	.0	.0	.14
25.66 2139.6								
8024019 24.5	.0	.0	150.0	.0	.0	.0	.0	.14
26.45 2136.7								
8027018 26.0	.0	.0	.0	.2	.6	.0	.0	.150
25.24 2136.2								
8027018 26.3	18.8	.0	119.0	.0	.0	.0	.0	.150
25.84 2136.9								
8027018 26.5	.0	.0	.0	.2	1.0	.0	.0	.150
26.84 2137.5								
8028018 .7	5.6	.0	.0	.0	.0	.0	.0	.154
13.69 2065.9								
8028018 .8	.0	89.4	.0	.0	.0	26.7	.0	.154
13.65 2057.7								
8028018 1.2	.0	.0	108.0	.0	.0	.0	.0	.154
14.68 2074.7								
8028018 1.4	.0	106.0	.0	.0	.0	17.8	.0	.154
15.49 2078.0								
8028018 1.7	5.9	.0	.0	.1	.4	.0	.0	.1539
16.24 2082.8								
8028018 1.9	.0	110.0	.0	.0	.0	32.0	160.0	.1537
16.74 2085.9								
8028018 2.1	.0	.0	87.2	.0	.0	.0	.0	.1536
17.23 2086.9								
8028018 2.3	6.1	.0	.0	.0	.0	.0	.0	.1534
17.71 2091.8								
8028018 2.4	.0	108.0	.0	.0	.0	17.8	160.0	.1533
17.95 2093.2								
8028018 2.9	6.6	.0	79.0	.0	.0	.0	.0	.1530

PARTIAL BCD LISTINGS OF D-09291 DOT TIME Ordered

0	2048.0	.1507	2.0505	1.421	-29.47	REC	1. LENGTH	120
.0	.0	.1509	2.0151	1.416	-28.58	REC	2. LENGTH	120
.0	.0	.1498	2.2479	1.442	-34.38	REC	3. LENGTH	120
.0	.0	.1497	2.2222	1.440	-33.72	REC	4. LENGTH	120
.0	.0	.1497	2.1763	1.436	-32.54	REC	5. LENGTH	120
.0	.0	.1497	2.1493	1.433	-31.86	REC	6. LENGTH	120
.0	.0	.1497	2.1138	1.430	-30.99	REC	7. LENGTH	120
.0	.0	.1498	2.1068	1.429	-30.82	REC	8. LENGTH	120
.0	.0	.1498	2.0791	1.426	-30.12	REC	9. LENGTH	120
.0	.0	.1505	2.1525	1.431	-31.85	REC	10. LENGTH	120
.0	.0	.1504	2.1316	1.430	-31.73	REC	11. LENGTH	120
.0	.0	.1503	2.1104	1.428	-30.81	REC	12. LENGTH	120
.0	.0	.1547	2.4597	1.445	-40.20	REC	13. LENGTH	120
.0	.0	.1546	2.4543	1.444	-40.06	REC	14. LENGTH	120
.0	.0	.1542	2.4349	1.444	-39.47	REC	15. LENGTH	120
.0	.0	.1541	2.4244	1.444	-39.17	REC	16. LENGTH	120
.0	.0	.1539	2.4098	1.443	-38.72	REC	17. LENGTH	120
160.0	.0	.1537	2.3996	1.443	-38.41	REC	18. LENGTH	120
.0	.0	.1536	2.3885	1.443	-38.11	REC	19. LENGTH	120
.0	.0	.1534	2.3774	1.442	-37.80	REC	20. LENGTH	120
160.0	.0	.1533	2.3718	1.442	-37.64	REC	21. LENGTH	120
.0	.0	.1530	2.3438	1.441	-36.86	REC	22. LENGTH	120

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19.14 2059.9

8028018 3.0 .0 147.0 .0 .0 .0 80.0 .0
19.37 2101.2

8029017 45.6 .0 853.0 .0 .0 .0 .0 .0
26.74 2115.8

8029017 45.8 17.7 .0 .0 .0 .0 .0 .0
27.14 2117.3

8029017 46.0 .0 621.0 .0 .2 1.3 .0 .0
27.54 2118.7

8029017 47.0 58.2 2048.0 .0 .2 1.0 .0 .0
29.49 2124.2

8029017 47.4 533.0 .0 209.0 .0 .0 .0 .0
30.25 2125.7

8029017 47.6 .0 2458.0 .0 .3 1.0 .0 .0
30.63 2126.3

8029017 48.0 .0 2363.0 .0 .0 .0 .0 .0
31.37 2127.3

80.0	.0	.1529	2.3382	1.441	-36.70	REC	23. LENGTH	120
.0	.0	.1521	2.1417	1.426	-31.51	REC	24. LENGTH	120
.0	.0	.1520	2.1275	1.425	-31.16	REC	25. LENGTH	120
.0	.0	.1519	2.1132	1.424	-30.81	REC	26. LENGTH	120
.0	.0	.1513	2.0435	1.418	-29.05	REC	27. LENGTH	120
.0	.0	.1511	2.0157	1.416	-28.33	REC	28. LENGTH	120
.0	.0	.1510	2.0017	1.415	-27.97	REC	29. LENGTH	120
.0	.0	.1506	1.9739	1.412	-27.25	REC	30. LENGTH	120

9004005 30.7 32.16 598.7	2.3	.0	.0	.0	.0	.0	.0	.0
9004005 31.2 34.58 568.8	2.0	.0	.0	.0	.0	.0	.0	.0
9004005 31.7 37.15 547.4	2.1	.0	.0	.0	.0	.0	.0	.0
9004007 25.2 28.91 386.0	1.5	.0	.0	.0	.0	.0	.0	.0
9004007 26.0 31.87 362.9	1.8	.0	.0	.0	.0	.0	.0	.0
9004007 28.1 39.03 312.6	1.7	.0	.0	.0	.0	.0	.0	.0
9004023 21.8 35.59 1578.2	38.7	.0	.0	.0	.0	.0	.0	.0
9004023 22.4 37.05 1550.9	37.2	.0	.0	.0	.0	.0	.0	.0
9004023 23.9 40.92 1489.3	.0	.0	35.1	.0	.0	.0	.0	.0
9005001 14.5 17.92 1405.3	3.4	.0	.0	.0	.0	.0	.0	.0

.0	.0	.3737	2.8013	1.118	47.31	3	REC	1. LENGTH	120
.0	.0	.3725	2.6383	1.114	46.61	3	REC	2. LENGTH	120
.0	.0	.3713	2.4854	1.110	45.85	3	REC	3. LENGTH	120
.0	.0	.3757	1.8826	1.078	36.55	3	REC	4. LENGTH	120
.0	.0	.3673	1.7123	1.073	34.50	3	REC	5. LENGTH	120
.0	.0	.3429	1.3806	1.058	28.70	3	REC	6. LENGTH	120
.0	.0	.2159	1.8900	1.267	32.08	3	REC	7. LENGTH	120
.0	.0	.2202	1.9184	1.263	33.25	3	REC	8. LENGTH	120
.0	.0	.2314	1.9929	1.251	36.11	3	REC	9. LENGTH	120
.0	.0	.2656	2.6523	1.237	39.04	3	REC	10. LENGTH	120

58-005A-01B

EXPLORER 4

Charged Particle 'B'

58-005A-01B

556 BPI, 7Track, BCD, 1 File, IBM 7094

D #	C #	START	STOP
D-00618		7/26/58	9/21/58

Note: Data Set 58-005A-01B is time ordered.

April 29, 1968

Data Set Catalog

58-005A-018

Explorer 4 (1968 Epsilon I)
Charged Particle Experiment

This Data Set consists of a single magnetic tape (D00618) with a nomenclature of; BCD, Even parity, 556 BPI, 7 track, one (1) file, 120 characters (20 words) per logical and physical record, and 23866 records on the tape.

At present, there is no Data Users' Note available for this data set but documentation of the program used to produce this Data Set Catalog is available at the National Space Science Data Center library. This Data Set Catalog consists of:

1. A BCD listing of the first few records of the file.
2. An octal dump of the first few records of the file.
3. A table of samples for the, Shielded GM Tube Detector, Scintillation Counter, Unshielded GM Tube Detector and the Cesium Iodide Counter of:
 - (a) B/BO vs. L
 - (b) L vs. Local Time
 - (c) Time gaps between data gatherings of greater than one (1) hour.
4. A listing of the program used to produce 3.
5. A listing of the program used to make corrections to records 17962 and 17965.
6. A listing of the record format for D00618.

FORMAT FOR EXPLORER IV (1958 EMISSION-1) DATA

MODE
 DENSITY
 LOGICAL RECORD LENGTH
 1 PHYSICAL RECORD = 1 LOGICAL RECORD

BCD Area Prefix - 58-005A-01
 556 LPI 7 Track
 20 IBM 7094/2 Words of 120 Characters

<u>CHARACTER POSITION</u>	<u>PARAMETER</u>	<u>DENSITY</u>
1	Blank	1X
2-3	Month	I2
4-6	Day	I3
7-9	Hour	I3
10	Blank	1X
11-14	Minutes to nearest tenth	F4.1
15-22	Shielded (Channel 1)	F8.1
23-30	Directional Average (Channel 2)	F8.1
31-38	Unshielded (Channel 3)	F8.1
39-46	Directional Minimum (Channel 4)	F8.1
47-54	Directional Maximum (Channel 4)	F8.1
55-62	Directional Minimum (Channel 2)	F7.1
63-70	Directional Maximum (Channel 2)	F7.1
69-75	B	F7.4
76-83	L	F8.4
84-91	B/BO	F8.3
92-98	Latitude	F7.2
99-105	Longitude	F7.2
106-112	Altitude in kilometers	F7.1
113-120	Blanks	8X

MODE BCD Error Parity - 58-005A-01B
 DENSITY 500 LPI 7 Track
 LOGICAL RECORD LENGTH 20 IBM 7094/2 Words or 20 Characters
 1PHYSICAL RECORD = 1LOGICAL RECORD

<u>CHARACTER POSITION</u>	<u>PARAMETER</u>	
1	Blank	1X
2-3	Month	I2
4-5	Day	I3
7-9	Hour	I3
10	Blank	1X
11-14	Minutes to nearest tenth	F4.1
15-22	Shielded (Channel 1)	F8.1
23-30	Directional Average (Channel 2)	F8.1
31-38	Unshielded (Channel 3)	F8.1
39-46	Directional Minimum (Channel 4)	F8.1
47-54	Directional Maximum (Channel 4)	F8.1
55-62	Directional Minimum (Channel 2)	F7.1
63-70	Directional Maximum (Channel 2)	F7.1
69-73	B	F7.4
74-83	L	F8.4
84-91	B/BO	F8.3
92-98	Latitude	F7.2
99-105	Longitude	F7.2
106-112	Altitude in kilometers	F7.1
113-120	Blanks	8X

Fertil listing

D-00618

7/26/58 - 9/21/58

Fertilizer ID	Rate	Area	Weight	Value	Value	Value	Value	Value	Value
7026022 46.4	67.76	821.6	.4	.4	110.0	.0	.0	.0	.32
7026022 46.6	69.70	848.1	.0	.0	138.0	.0	.0	.0	.381
7026022 47.0	71.19	369.6	8.6	360.0	.0	.0	.0	.0	.291
7026022 47.1	71.55	874.9	.0	.0	141.0	.0	.0	.0	.379
7026022 47.5	72.99	896.5	.0	.0	121.0	.0	.0	.0	.373
7026022 47.9	74.38	918.2	.0	.0	91.5	.0	.0	.0	.367
7026022 48.0	74.72	923.7	4.8	231.0	.0	.0	.0	.0	.366
7026022 48.4	76.06	945.6	.0	.0	56.5	.0	.0	.0	.359
7026022 48.5	76.39	951.0	.0	163.0	.0	.0	.0	.0	.358
7026022 49.0	77.99	978.6	3.4	130.0	34.6	.0	.0	.0	.350
7026022 49.4	79.24	1000.6	2.2	110.0	.0	.0	.0	.0	.344
7026022 49.6	79.84	1011.7	.0	.0	21.3	.0	.0	.0	.3409
7026022 50.0	81.03	1033.9	2.5	122.0	.0	.0	.0	.0	.3345
7026022 50.6	82.75	1067.3	.0	.0	13.5	.0	.0	.0	.3248
7026022 51.0	83.85	1089.6	.0	171.0	.0	.0	.0	.0	.3184
7026022 51.1	84.12	1095.1	2.0	.0	.0	.0	.0	.0	.3168
7026022 51.6	85.45	1123.0	2.2	213.0	.0	.0	.0	.0	.3087
7026022 51.8	85.97	1134.2	.0	.0	15.4	.0	.0	.0	.3055
7026022 52.0	86.49	1145.3	2.5	246.0	.0	.0	.0	.0	.3023
7026022 52.5	87.74	1173.2	2.9	276.0	.0	.0	.0	.0	.2943
7026022 52.9	88.71	1195.5	.0	.0	17.7	.0	.0	.0	.2879
7026022 52.9			.0	.0	17.5	.0	.0	.0	.2879

62-68 B

62-68 | .394 | 3.2040 | 41.692 | 42.1 | 2 REC | 58-005A-01B
 B | L | BIBO LAT | 1. LENGTH 120

.0	.0	.3870	3.1131	37.464	41.20	2	REC	2. LENGTH	120
.0	.0	.3812	3.6353	34.205	40.42	2	REC	3. LENGTH	120
.0	.0	.3797	3.0168	33.451	40.22	2	REC	4. LENGTH	120
.0	.0	.3737	2.9445	30.612	39.42	2	REC	5. LENGTH	120
.0	.0	.3677	2.8703	27.900	38.60	2	REC	6. LENGTH	120
.0	.0	.3661	2.8516	27.239	38.40	2	REC	7. LENGTH	120
.0	.0	.3599	2.7752	24.683	37.56	2	REC	8. LENGTH	120
.0	.0	.3584	2.7567	24.092	37.35	2	REC	9. LENGTH	120
.0	.0	.3505	2.6664	21.320	36.29	2	REC	10. LENGTH	120
.0	.0	.3441	2.5970	19.339	35.43	2	REC	11. LENGTH	120
.0	.0	.3409	2.5634	18.425	35.00	2	REC	12. LENGTH	120
.0	.0	.3345	2.4962	16.694	34.13	2	REC	13. LENGTH	120
.0	.0	.3248	2.3999	14.405	32.80	2	REC	14. LENGTH	120
.0	.0	.3184	2.3393	13.079	31.91	2	REC	15. LENGTH	120
.0	.0	.3168	2.3246	12.769	31.69	2	REC	16. LENGTH	120
.0	.0	.3087	2.2533	11.332	30.56	2	REC	17. LENGTH	120
.0	.0	.3055	2.2259	10.811	30.11	2	REC	18. LENGTH	120
.0	.0	.3023	2.1991	10.316	29.66	2	REC	19. LENGTH	120
.0	.0	.2943	2.1341	9.178	28.52	2	REC	20. LENGTH	120
.0	.0	.2879	2.0856	8.380	27.60	2	REC	21. LENGTH	120
.0	.0	.2879	2.0856	8.380	27.60	2	REC	22. LENGTH	120

88.71	1195.5									
7026022	53.0	3.1	306.0	.0	.0	.0	.0	.0	.2863	2.07
88.95	1201.0									
7026022	53.4	3.7	366.0	.0	.0	.0	.0	.0	.2800	2.02
89.90	1273.2									
7026022	53.7	.0	.0	26.0	.0	.0	.0	.0	.2753	1.99
90.59	1239.9									
7026022	54.0	6.2	443.0	.0	.0	.0	.0	.0	.2706	1.96
91.27	1256.5									
7026022	54.5	11.8	541.0	.0	.0	.0	.0	.0	.2630	1.91
92.38	1284.0									
7026022	54.9	.0	.0	30.3	.0	.0	.0	.0	.2569	1.87
93.25	1306.0									
7026022	55.2	25.2	723.0	.0	.0	.0	.0	.0	.2524	1.84
93.89	1322.4									
7026022	55.6	.0	.0	84.8	.0	.0	.0	.0	.2465	1.81
94.72	1344.3									
7026022	56.0	65.9	968.0	.0	.0	.0	.0	.0	.2406	1.78
95.54	1366.0									
7026022	56.3	.0	.0	136.0	.0	.0	.0	.0	.2363	1.75
96.14	1382.2									
7026022	56.8	.0	.0	207.0	.0	.0	.0	.0	.2293	1.72
97.13	1409.0									
7026022	56.9	147.0	1357.0	.0	.0	.0	.0	.0	.2279	1.71
97.32	1414.3									
7027000	37.1	.0	56.3	.0	.0	.0	.0	.0	.3645	2.44
93.27	865.6									
7027000	37.2	2.6	.0	.0	.0	.0	.0	.0	.3633	2.43
93.63	870.9									
7027000	37.5	.0	60.7	.0	.2	.2	.0	.0	.3599	2.41
94.72	887.1									
7027000	37.7	1.9	.0	.0	.0	.0	.0	.0	.3576	2.39
95.43	897.9									
7027000	38.0	.0	74.3	.0	.2	.2	.0	.0	.3540	2.38
96.47	914.2									
7027000	38.2	1.9	.0	.0	.0	.0	.0	.0	.3516	2.37
97.15	925.1									
7027000	38.5	.0	91.8	.0	.2	.2	27.6	.0	.3479	2.36
98.15	941.5									
7027000	38.5	2.2	89.8	.0	.0	.0	28.6	160.0	.3479	2.36
98.15	941.5									
7027000	38.6	2.1	.0	.0	.0	.0	.0	.0	.3467	2.29

.0	.0	.0	.2863	2.0738	8.193	27.38	2	REC	23, LENGTH	120
.0	.0	.0	.2800	2.0261	7.495	26.46	2	REC	24, LENGTH	120
.0	.0	.0	.2753	1.9950	7.014	25.77	2	REC	25, LENGTH	120
.0	.0	.0	.2706	1.9633	6.571	25.08	2	REC	26, LENGTH	120
.0	.0	.0	.2630	1.9135	5.912	23.93	2	REC	27, LENGTH	120
.0	.0	.0	.2569	1.8758	5.441	23.00	2	REC	28, LENGTH	120
.0	.0	.0	.2524	1.8490	5.120	22.31	2	REC	29, LENGTH	120
.0	.0	.0	.2465	1.8148	4.728	21.39	2	REC	30, LENGTH	120
.0	.0	.0	.2406	1.7824	4.372	20.46	2	REC	31, LENGTH	120
.0	.0	.0	.2363	1.7592	4.128	19.77	2	REC	32, LENGTH	120
.0	.0	.0	.2293	1.7228	3.762	18.62	2	REC	33, LENGTH	120
.0	.0	.0	.2279	1.7158	3.694	18.39	2	REC	34, LENGTH	120
.0	.0	.0	.3645	2.4495	17.189	40.44	2	REC	35, LENGTH	120
.0	.0	.0	.3633	2.4399	16.932	40.24	2	REC	36, LENGTH	120
.2	.0	.0	.3599	2.4106	16.177	39.64	2	REC	37, LENGTH	120
.0	.0	.0	.3576	2.3906	15.676	39.24	2	REC	38, LENGTH	120
.2	.0	.0	.3540	2.3595	14.921	38.63	2	REC	39, LENGTH	120
.0	.0	.0	.3516	2.3389	14.435	38.21	2	REC	40, LENGTH	120
.2	27.6	.0	.3479	2.3079	13.723	37.59	2	REC	41, LENGTH	120
.0	28.6	160.0	.3479	2.3079	13.723	37.59	2	REC	42, LENGTH	120
.0	.0	.0	.3467	2.2975	13.491	37.38	2	REC	43, LENGTH	120

48.48 947.0

7027000 38.8 2.2 95.7 .0 .0 .0 .0 .0 .3442
49.13 957.9

7027000 39.0 2.0 .0 .0 .2 .2 .0 .0 .3416
49.77 968.9

7027000 39.1 .0 101.0 .0 .0 .0 .0 .0 .3404
50.09 974.4

7027000 39.2 1.8 102.0 .0 .0 .0 53.3 218.0 .3391
50.40 980.0

7027000 39.5 1.7 83.3 .0 .0 .0 .0 .0 .3339
51.63 1002.0

7027000 39.8 .0 .0 .0 .2 .2 .0 .0 .3313
52.24 1013.1

7027000 40.0 .0 .0 .0 .2 .2 .0 .0 .3286
52.83 1024.2

7027000 40.1 .0 58.5 .0 .0 .0 .0 .0 .3273
53.13 1029.8

7027000 40.3 1.4 .0 .0 .0 .0 .0 .0 .3246
53.71 1040.9

7027000 40.4 .0 .0 .0 .2 .2 .0 .0 .3233
54.00 1046.4

7027000 40.6 .0 41.7 .0 .0 .0 .0 .0 .3206
54.57 1057.5

7027000 40.9 1.6 .0 .0 .0 .0 .0 .0 .3165
55.40 1074.2

7027000 41.0 .0 29.9 .0 .2 .2 .0 .0 .3151
55.68 1079.8

7027002 59.5 .0 6770.0 4826.0 .0 .0 .0 .0 .1271
77.99 2200.1

7027003 7.0 1097.0 4357.0 1681.0 .0 .0 .0 .0 .1342
94.09 2217.8

7027003 7.6 .0 4344.0 1512.0 .0 .0 .0 .0 .1351
95.63 2213.1

7027003 8.1 .0 4216.0 1377.0 .0 .0 .0 .0 .1358
96.94 2208.5

7027003 8.5 .0 4007.0 .0 .0 .0 .0 .0 .1365
98.01 2204.4

7027003 8.6 .0 .0 1205.0 .0 .0 .0 .0 .1366
98.29 2203.3

7027003 9.5 411.0 3781.0 .0 .0 .0 .0 .0 .1381
90.79 2192.3

7027003 10.0 .0 3657.0 .0 .0 .0 .0 .0 .1390

.0	.0	.3442	2.2768	13.035	36.96	2	REC	44.	LENGTH	120
.0	.0	.3416	2.2561	12.587	36.53	2	REC	45.	LENGTH	120
.0	.0	.3404	2.2458	12.372	36.32	2	REC	46.	LENGTH	120
53.3	218.0	.3391	2.2356	12.157	36.10	2	REC	47.	LENGTH	120
.0	.0	.3339	2.1947	11.326	35.24	2	REC	48.	LENGTH	120
.0	.0	.3313	2.1742	10.926	34.80	2	REC	49.	LENGTH	120
.0	.0	.3286	2.1537	10.533	34.37	2	REC	50.	LENGTH	120
.0	.0	.3273	2.1435	10.343	34.15	2	REC	51.	LENGTH	120
.0	.0	.3246	2.1234	9.972	33.71	2	REC	52.	LENGTH	120
.0	.0	.3233	2.1134	9.792	33.49	2	REC	53.	LENGTH	120
.0	.0	.3206	2.0936	9.440	33.04	2	REC	54.	LENGTH	120
.0	.0	.3165	2.0644	8.935	32.38	2	REC	55.	LENGTH	120
.0	.0	.3151	2.0548	8.772	32.15	2	REC	56.	LENGTH	120
.0	.0	.31271	1.4777	1.316	-28.19	2	REC	57.	LENGTH	120
.0	.0	.31342	1.7205	2.193	-40.24	2	REC	58.	LENGTH	120
.0	.0	.31351	1.7450	2.303	-41.08	2	REC	59.	LENGTH	120
.0	.0	.31358	1.7659	2.400	-41.75	2	REC	60.	LENGTH	120
.0	.0	.31365	1.7838	2.486	-42.28	2	REC	61.	LENGTH	120
.0	.0	.31366	1.7884	2.507	-42.41	2	REC	62.	LENGTH	120
.0	.0	.31381	1.8286	2.709	-43.55	3	REC	63.	LENGTH	120
.0	.0	.31390	1.8519	2.833	-44.15	3	REC	64.	LENGTH	120

02.23 2185.4									
7027003 10.3	.0	815.0	.0	.0	.0	.0	.0	.0	.1395 1
03.11 2180.9									
7027003 30.5	.0	288.0	.0	.0	.0	.0	.0	.0	.1927 2
17.47 1428.2									
7027003 31.0	.0	334.0	72.6	.0	.0	.0	.0	.0	.1946 2
19.06 1400.9									
7027003 31.5	6.1	402.0	70.2	.0	.0	.0	.0	.0	.1966 2
20.63 1373.3									
7027003 32.0	.0	500.0	73.5	.0	.0	.0	.0	.0	.1987 2
22.17 1345.6									
7027003 32.5	.0	.0	79.4	.0	.0	.0	.0	.0	.2008 2
23.68 1317.7									
7027003 33.0	.0	714.0	86.8	.0	.0	.0	.0	.0	.2031 2
25.15 1289.6									
7027003 33.5	12.1	856.0	99.1	.0	.0	.0	.0	.0	.2053 2
26.60 1261.4									
7027003 34.0	13.1	945.0	104.7	.0	.0	.0	.0	.0	.2077 2
28.02 1233.0									
7027003 34.5	18.6	1115.0	128.3	.0	.0	.0	.0	.0	.2101 2
29.42 1204.5									
7027003 35.0	25.0	1155.0	151.0	.0	.0	.0	.0	.0	.2126 2
30.79 1176.0									
7027003 35.5	36.4	1368.0	169.0	.0	.0	.0	.0	.0	.2151 1
32.13 1147.4									
7027003 36.0	53.3	1446.0	197.0	.0	.0	.0	.0	.0	.2177 1
33.45 1118.8									
7027003 37.0	111.0	1485.0	236.0	.0	.0	.0	.0	.0	.2231 1
36.03 1061.6									
7027003 37.5	156.0	1352.0	244.0	.0	.0	.0	.0	.0	.2258 1
37.29 1033.1									
7027003 38.0	160.0	1107.0	244.0	.0	.0	.0	.0	.0	.2285 1
38.53 1004.6									
7027010 57.0	.0	3442.0	2090.0	.0	.0	.0	.0	.0	.1839 1
82.73 1114.8									
7027010 57.5	.0	3328.0	2090.0	.0	.0	.0	.0	.0	.1827 1
84.01 1086.2									
7027010 58.5	.0	2926.0	1873.0	.0	.0	.0	.0	.0	.1810 1
86.51 1029.1									
7027010 59.0	.0	2477.0	1665.0	.0	.0	.0	.0	.0	.1805 1
87.73 1000.7									
7027010 59.5	.0	2103.0	1484.0	.0	.0	.0	.0	.0	.1804 1

.0	.1395	1.8652	2.909	-44.50	3	REC	65.	LENGTH	120
.0	.1927	2.4318	8.892	-41.36		REC	66.	LENGTH	120
.0	.1946	2.3975	8.605	-40.53		REC	67.	LENGTH	120
.0	.1966	2.3608	8.300	-39.66		REC	68.	LENGTH	120
.0	.1987	2.3218	7.980	-38.76		REC	69.	LENGTH	120
.0	.2008	2.2802	7.639	-37.83		REC	70.	LENGTH	120
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.0	.2177	1.9357	5.066	-30.56		REC	77.	LENGTH	120
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.0	.2285	1.7219	3.743	-25.85		REC	80.	LENGTH	120
.0	.1839	1.3139	1.338	-29.83	2	REC	81.	LENGTH	120
.0	.1827	1.2953	1.274	-28.68	2	REC	82.	LENGTH	120
.0	.1810	1.2622	1.168	-26.31	2	REC	83.	LENGTH	120
.0	.1805	1.2479	1.125	-25.09	2	REC	84.	LENGTH	120
.0	.1804	1.2347	1.090	-23.84	2	REC	85.	LENGTH	120

88.74 972.4

7027010 59.8 .0 1792.0 1313.0 .0 .0 .0 .0 .18
89.65 955.4

7027011 .5 .0 1256.0 994.0 .0 .0 .0 .0 .18
91.31 916.2

.0 .0 .1805 1.2276 1.071 -23.09 2 REC 86. LENGTH 120

.0 .0 .1812 1.2126 1.037 -21.29 2 REC 87. LENGTH 120

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.0	.2734	1.2326	1.643	26.24	REC	3. LENGTH	120
.0	.3077	1.2027	1.718	-12.93	REC	4. LENGTH	120
.0	.3117	1.2328	1.874	-14.93	REC	5. LENGTH	120
.0	.3159	1.2657	2.055	-16.11	REC	6. LENGTH	120
.0	.3203	1.3031	2.274	-17.69	REC	7. LENGTH	120
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.0	.3766	1.8653	7.843	-31.56	REC	10. LENGTH	120

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	0057	010420020607	730706202010	020173062020	2020202020
FILE 0001 REC 0002 CF 0120	0001	202007120206	120202200406	730620202020	2020731220
	0045	202020207312	202020202073	122020202020	7312202073
	0057	021220020611	730712202010	041073012020	2020202020
FILE 0001 REC 0003 CF 0120	0001	202007120206	120202200407	731220202020	2010730620
	0045	202020207312	202020202073	122020202020	7312202073
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FILE 0001 REC 0004 CF 0120	0001	202007120206	120202200407	730120202020	2020731220
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	0057	020220020701	730505202010	070473112020	2020202020
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	0057	021120020707	731111202011	071073062020	2020202020
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	0057	040320020711	730204200112	121273062020	2020202020
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	0057	121220020711	731004200112	010173072020	2020202020
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0049 202020207312 202020202073 122020202020 73122020
0097 050620021005 730405200101 020373122020 20202020

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FILE 0001 REC 0021 CF 0120
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0049 202020207312 202020202073 122020202020 73122020
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FILE 0001 REC 0029 CF 0120
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FILE 0001 REC 0032 CF 0120

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73022020	202020202020				
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20202020	731220207302	071206202001	731106030320	202006730507	012020020573
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7122020	202020202020				
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7122020	202020202020				
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20202020	731220207302	050204202001	731004111220	202005730102	122020020273
042020	202020202020				
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032020	202020202020				
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20202020	731220207302	041206202001	730710020420	202004730307	022020021273
122020	202020202020				

EOF-PARITY-ERROR TAPE CHECK RUN BEGINS.

AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO. 2386

INPUT TAPE HAS 1921.12 FEET OF DATA

EOF-PARITY-ERROR TAPE CHECK RUN HAS ENDED.

AL RECORD NO. 23867 OF FILE NO. 1

EOF PARITY
ON D-00618

58-005 A-01 C

EXPLORER 4

Charged Particle 'C'
58-005A-01C

556 BPI, BCD, 7 Track, 1 File, IBM 704

D #	C #	START	STOP
D-00080	C-00973	7/26/58/	9/21/58

Note: This data set is E ordered.

NEW EXPLORER 4 TAPE

characteristics and format of the magnetic tape with the Explorer 4 data are on the attached sheet. The tape was created on an IBM 360 computer. The magnitude of the Earth's magnetic field, B , and the L -parameter were recomputed with a modified version of the program (Reference 1). The routines were changed to double-precision and the computations were done on an IBM 360 model 75. A subroutine was added that uses the magnetic field's spherical harmonic coefficients and their first and second time derivatives to adjust the coefficients to the desired time. The adjusted coefficients are then transferred to the subroutine NEM2IG, where they are used in computing B . For the Explorer 4 data, the 120 term magnetic field representation of Cain et al (Reference 2) was used with the time set at 1958.8. The Explorer 4 charged particle data is in the form of uncorrected count rates. Reference 3 contains some basic information about the shielded Geiger tube, while Reference 4 presents B, L maps of the corrected count rates.

References:

1. Massitt, A., and Mellvain, C.E. "Computer Programs for the Computation of B and L (May 1966)," NSSDC 67-27, May 1967.
2. Cain, J.C., Hendricks, S.J., Langel, R.A., and Hudson, W.V., "A Proposed Model for the International Geomagnetic Reference Field - 1965," J. Geomag and Geoelect 19:335-355, 1967.
3. Mellvain, C.E., and Pizzella, G., "On the Energy Spectrum of Protons Trapped in the Earth's Inner Van Allen Zone," J. of Geophys. Res. 68:1811-1823, 1963.
4. Mellvain, C.E., "Coordinates for Mapping the Distribution of Magnetically Trapped Particles," J. of Geophys. Res. 66:3681-3691, 1961.

FORMAT FOR EXPLORER IV (1950 EPSILON-1) DATA

500 BYTES PARTY
 556321 7 TRACK
 3.0 IBM 7094 WORDS OR 120 CHARACTERS
 PHYSICAL RECORD LENGTH
 LOGICAL RECORD - LOGICAL RECORD
 THIS TAPE HAS 1 FILE WITH 23865 RECORDS

<u>CHARACTER POSITION</u>	<u>PARAMETER</u>	<u>READ BY</u>
1	Blank	1X
2 - 3	Month	I2
4 - 5	Day	I3
6 - 9	Hour	I3
10	Blank	1X
11 - 14	Minutes to nearest tenth	F4.1
15 - 23	Shielded (Channel 1) (GEIGER TUBE)	F3.1
24 - 30	Directional Average (Channel 2)	F8.1
31 - 38	Unshielded (Channel 3) (GEIGER TUBE)	F3.1
39 - 46	Directional Minimum (Channel 4)	F8.1
47 - 54	Directional Maximum (Channel 4)	F8.1
55 - 62	Directional Minimum (Channel 2)	F7.1
63 - 68	Directional Maximum (Channel 2)	F7.1
69 - 75	B	F7.4
76 - 83	L	F8.4
84 - 90	B (with 120 term field)	F7.4
91 - 98	L (with 120 term field)	F8.4
99 - 105	Latitude	F7.2
106 - 112	Longitude	F7.2
113 - 119	Altitude in Kilometers	F7.1
120	Blank	1X

EXPLORER 4

Partial listing

D-00080

7 26 22 46.1 0. 0. 110.0 0. 0. 0. 0. 0.39
 42.19 267.75 821.6

LAT

B

7 26 22 46.6 0. 0. 138.0 0. 0. 0. 0. 0.38
 41.20 269.70 848.1

7 26 22 47.0 8.6 360.0 0. 0. 0. 0. 0. 0.38
 40.42 271.19 869.6

7 26 22 47.1 0. 0. 141.0 0. 0. 0. 0. 0.37
 40.22 271.55 874.9

7 26 22 47.5 0. 0. 121.0 0. 0. 0. 0. 0.37
 39.42 272.99 896.5

7 26 22 47.9 0. 0. 91.5 0. 0. 0. 0. 0.36
 38.60 274.38 918.2

7 26 22 48.0 4.8 231.0 0. 0. 0. 0. 0. 0.35
 38.40 274.72 923.7

7 26 22 48.4 0. 0. 56.5 0. 0. 0. 0. 0.35
 37.56 276.06 945.6

7 26 22 48.5 0. 163.0 0. 0. 0. 0. 0. 0.35
 37.35 276.39 951.0

7 26 22 49.0 3.4 130.0 34.6 0. 0. 0. 0. 0.35
 36.29 277.99 978.6

7 26 22 49.4 2.2 110.0 0. 0. 0. 0. 0. 0.34
 35.43 279.24 1000.6

7 26 22 49.6 0. 0. 21.3 0. 0. 0. 0. 0.34
 35.00 279.84 1011.7

7 26 22 50.0 2.5 122.0 0. 0. 0. 0. 0. 0.33
 34.13 281.03 1033.9

7 26 22 50.6 0. 0. 13.5 0. 0. 0. 0. 0.32
 32.80 282.75 1067.3

7 26 22 51.0 0. 171.0 0. 0. 0. 0. 0. 0.31
 31.91 283.85 1089.6

7 26 22 51.1 2.0 0. 0. 0. 0. 0. 0. 0.31
 31.69 284.12 1095.1

7 26 22 51.6 2.2 213.0 0. 0. 0. 0. 0. 0.30
 30.56 285.45 1123.0

7 26 22 51.8 0. 0. 15.4 0. 0. 0. 0. 0.30
 30.11 285.97 1134.2

7 26 22 52.0 2.5 246.0 0. 0. 0. 0. 0. 0.30
 29.66 286.49 1145.3

7 26 22 52.5 2.9 276.0 0. 0. 0. 0. 0. 0.29
 28.52 287.74 1177.2

7 26 22 52.9 0. 0. 17.7 0. 0. 0. 0. 0.28
 27.60 288.71 1195.5

7 26 22 52.9 0. 0. 17.5 0. 0. 0. 0. 0.28

ing

D-00080

7/24/58 - 9/21/58

58-005A-0

0.	0.	0.	0.3941	3.2040	0.3940	3.0217	REC	1. LENGTH	120
			B	L	B	L			
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0.	0.	0.	0.3812	3.0353	0.3812	3.0588	REC	3. LENGTH	120
0.	0.	0.	0.3797	3.0168	0.3797	3.0394	REC	4. LENGTH	120
0.	0.	0.	0.3737	2.9445	0.3738	2.9649	REC	5. LENGTH	120
0.	0.	0.	0.3677	2.8703	0.3677	2.8889	REC	6. LENGTH	120
0.	0.	0.	0.3651	2.8516	0.3652	2.8710	REC	7. LENGTH	120
0.	0.	0.	0.3599	2.7752	0.3599	2.7945	REC	8. LENGTH	120
0.	0.	0.	0.3584	2.7567	0.3584	2.7762	REC	9. LENGTH	120
0.	0.	0.	0.3505	2.6664	0.3505	2.6862	REC	10. LENGTH	120
0.	0.	0.	0.3441	2.5970	0.3442	2.6161	REC	11. LENGTH	120
0.	0.	0.	0.3409	2.5634	0.3410	2.5818	REC	12. LENGTH	120
0.	0.	0.	0.3345	2.4962	0.3346	2.5151	REC	13. LENGTH	120
0.	0.	0.	0.3248	2.3999	0.3249	2.4186	REC	14. LENGTH	120
0.	0.	0.	0.3184	2.3393	0.3184	2.3577	REC	15. LENGTH	120
0.	0.	0.	0.3168	2.3246	0.3168	2.3429	REC	16. LENGTH	120
0.	0.	0.	0.3087	2.2533	0.3087	2.2705	REC	17. LENGTH	120
0.	0.	0.	0.3055	2.2259	0.3055	2.2430	REC	18. LENGTH	120
0.	0.	0.	0.3023	2.1991	0.3023	2.2161	REC	19. LENGTH	120
0.	0.	0.	0.2943	2.1341	0.2943	2.1507	REC	20. LENGTH	120
0.	0.	0.	0.2879	2.0856	0.2879	2.1012	REC	21. LENGTH	120
0.	0.	0.	0.2879	2.0856	0.2879	2.1012	REC	22. LENGTH	120

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0.	0.2800	2.0281	0.2800	2.0432	REC	24. LENGTH	120	
0.	0.2753	1.9950	0.2753	2.0100	REC	25. LENGTH	120	
0.	0.2706	1.9633	0.2707	1.9781	REC	26. LENGTH	120	
0.	0.2630	1.9135	0.2630	1.9277	REC	27. LENGTH	120	
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0.	0.2524	1.8490	0.2525	1.8622	REC	29. LENGTH	120	
0.	0.2465	1.8148	0.2466	1.8275	REC	30. LENGTH	120	
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0.	0.2363	1.7592	0.2365	1.7711	REC	32. LENGTH	120	
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9 21 23 59.4 6.4 0. 0. 0. 0. 0. 0.
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9 21 24 0.1 2.9 0. 0. 0. 0. 0. 0.
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FILE 0001 REC 0016 CF 0120	0057 021120200301	730611200210	047301022001	121105
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EOF-PARITY-ERROR TAPE CHECK RUN BEGINS.

AN END-OF-FILE HAS BEEN ENCOUNTERED ON PHYSICAL RECORD NO. 23867

INPUT TAPE HAS 1921.12 FEET OF DATA

EOF-PARITY-ERROR TAPE CHECK RUN HAS ENDED.

EO

RD NO. 23857 OF FILE NO. 1

EDF party check on D-pod 80

BCD Listing

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7027003	31.0	.0	334.0	72.6	.0	.0	.0	.0	.19
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7027003	32.5	.0	.0	79.4	.0	.0	.0	.0	.20
7027003	33.0	.0	714.0	86.8	.0	.0	.0	.0	.20
7027003	33.5	12.1	856.0	99.1	.0	.0	.0	.0	.20
7027003	34.0	13.1	945.0	104.7	.0	.0	.0	.0	.20
7027003	34.5	13.5	1115.0	128.3	.0	.0	.0	.0	.21
7027003	35.0	23.0	1155.0	151.0	.0	.0	.0	.0	.21
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7027003	37.0	111.0	1485.0	236.0	.0	.0	.0	.0	.22
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7027010	59.8	.0	1772.0	1313.0	.0	.0	.0	.0	.18
7027011	.5	.0	1256.0	694.0	.0	.0	.0	.0	.18
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7027012	6.0	256.0	2380.0	410.0	.0	.0	.0	.0	.20
7027012	7.1	107.0	2180.0	252.0	.0	.0	.0	.0	.20
7027012	8.1	51.2	2010.0	193.0	.0	.0	.0	.0	.20
7027012	9.0	23.1	1504.0	148.0	.0	.0	.0	.0	.21
7027012	10.4	8.8	.0	.0	.0	.0	.0	.0	.21
7027012	11.0	5.4	911.0	70.1	.0	.0	.0	.0	.22
7027012	12.0	5.3	179.0	61.3	.0	.0	.0	.0	.22

8	F7.4
DIRECTIONAL MAXIMUM (CHANNEL 2)	F7.1
DIRECTIONAL MINIMUM (CHANNEL 2)	F7.1
DIRECTIONAL MAXIMUM (CHANNEL 4)	F8.1
DIRECTIONAL MINIMUM (CHANNEL 4)	F8.1
UNSHIELDED (CHANNEL 3)	F8.1
DIRECTIONAL AVERAGE (CHANNEL 2)	F8.1
SHIELDED (CHANNEL 1)	F8.1
MINUTES TO NEXT TBM	F9.1
BLANK	IX
HOUR	IS
DAY	IS
MONTH	IX
YEAR	IX

BCD LIST

.0	.1390	1.8517	2.833	-44.15	302.23	2185.4
.0	.1395	1.8662	2.909	-44.50	307.11	2180.9
.0	.1927	2.4318	8.892	-41.36	17.47	1428.2
.0	.1946	2.3975	8.605	-40.53	19.06	1400.9
.0	.1956	2.3608	8.300	-39.66	20.63	1373.3
.0	.1987	2.3218	7.980	-38.76	22.17	1345.6
.0	.2008	2.2802	7.639	-37.83	23.68	1317.7
.0	.2031	2.2364	7.289	-36.88	25.15	1289.6
.0	.2053	2.1908	6.927	-35.89	26.60	1261.4
.0	.2077	2.1432	6.561	-34.88	28.02	1233.0
.0	.2101	2.0926	6.178	-33.84	29.42	1204.5
.0	.2126	2.0408	5.798	-32.77	30.79	1176.0
.0	.2151	1.9886	5.428	-31.68	32.13	1147.4
.0	.2177	1.9357	5.066	-30.56	33.45	1118.8
.0	.2231	1.8291	4.381	-28.26	36.03	1061.6
.0	.2258	1.7747	4.050	-27.07	37.29	1033.1
.0	.2285	1.7219	3.743	-25.85	38.53	1004.6
.0	.1839	1.7139	1.758	-24.83	232.73	1114.8
.0	.1827	1.2953	1.274	-28.68	284.01	1086.2
.0	.1810	1.2622	1.168	-26.31	286.51	1029.1
.0	.1805	1.2479	1.125	-25.09	287.73	1000.7
.0	.1804	1.2347	1.090	-23.84	288.94	972.4
.0	.1805	1.2276	1.071	-23.09	289.65	955.4
.0	.1812	1.2126	1.037	-21.29	291.31	916.2
.0	.2033	1.6605	2.987	-19.37	126.60	2093.4
.0	.2063	1.7380	3.475	-20.31	131.22	2117.5
.0	.2096	1.8317	4.133	-22.40	133.04	2141.3
.0	.2125	1.9250	4.864	-24.27	134.74	2160.5
.0	.2152	2.0163	5.660	-25.92	136.31	2175.6
.0	.2191	2.1703	7.187	-28.44	138.85	2195.4
.0	.2208	2.2411	7.975	-29.49	139.97	2202.3
.0	.2235	2.3659	9.497	-31.22	141.90	2212.0

DIRECTIONAL
MAY 1958

B
F7.4

L
F8.4

B/R4
F8.3

LATITUDE
F7.2

LONGITUDE
F7.2

ALTITUDE IN
METERS
F7.2

BLANK BX

from Sept 4 doc

7026022	46.1	.0	.0	110.0	.0	.0	.0	.0	.3941
7026022	46.5	.0	.0	138.0	.0	.0	.0	.0	.3870
7026022	47.0	8.5	360.0	.0	.0	.0	.0	.0	.3812
7026022	47.1	.0	.0	141.0	.0	.0	.0	.0	.3797
7026022	47.3	.0	.0	121.0	.0	.0	.0	.0	.3737
7026022	47.9	.0	.0	91.5	.0	.0	.0	.0	.3677
7026022	48.0	4.8	231.0	.0	.0	.0	.0	.0	.3661
7026022	48.4	.0	.0	56.5	.0	.0	.0	.0	.3599
7026022	48.5	.0	163.0	.0	.0	.0	.0	.0	.3584
7026022	49.0	3.4	130.0	34.6	.0	.0	.0	.0	.3505
7026022	49.4	2.2	110.0	.0	.0	.0	.0	.0	.3441
7026022	49.6	.0	.0	21.3	.0	.0	.0	.0	.3409
7026022	50.0	2.5	122.0	.0	.0	.0	.0	.0	.3345
7026022	50.6	.0	.0	13.5	.0	.0	.0	.0	.3248
7026022	51.0	.0	171.0	.0	.0	.0	.0	.0	.3184
7026022	51.1	2.0	.0	.0	.0	.0	.0	.0	.3168
7026022	51.6	2.2	213.0	.0	.0	.0	.0	.0	.3087
7026022	51.8	.0	.0	15.4	.0	.0	.0	.0	.3055
7026022	52.0	2.5	246.0	.0	.0	.0	.0	.0	.3023
7026022	52.5	2.9	276.0	.0	.0	.0	.0	.0	.2943
7026022	52.9	.0	.0	17.7	.0	.0	.0	.0	.2879
7026022	52.9	.0	.0	17.5	.0	.0	.0	.0	.2879
7026022	53.0	3.1	305.0	.0	.0	.0	.0	.0	.2863
7026022	53.4	3.7	366.0	.0	.0	.0	.0	.0	.2800
7026022	53.7	.0	.0	26.0	.0	.0	.0	.0	.2753
7026022	54.0	6.2	443.0	.0	.0	.0	.0	.0	.2706
7026022	54.5	11.8	541.0	.0	.0	.0	.0	.0	.2630
7026022	54.9	.0	.0	30.3	.0	.0	.0	.0	.2569
7026022	55.2	25.2	723.0	.0	.0	.0	.0	.0	.2524
7026022	55.5	.0	.0	44.8	.0	.0	.0	.0	.2465
7026022	56.0	55.9	958.0	.0	.0	.0	.0	.0	.2406
7026022	56.3	.0	.0	136.0	.0	.0	.0	.0	.2363
7026022	56.8	.0	.0	207.0	.0	.0	.0	.0	.2293
7026022	56.9	147.0	1357.0	.0	.0	.0	.0	.0	.2279
7027000	37.1	.0	56.3	.0	.0	.0	.0	.0	.3645
7027000	37.2	2.6	.0	.0	.0	.0	.0	.0	.3633
7027000	37.3	.0	60.7	.0	.2	.2	.0	.0	.3599
7027000	37.7	1.9	.0	.0	.0	.0	.0	.0	.3576
7027000	38.0	.0	74.3	.0	.2	.2	.0	.0	.3540
7027000	38.2	1.9	.0	.0	.0	.0	.0	.0	.3516
7027000	38.5	.0	91.8	.0	.2	.2	27.6	.0	.3479
7027000	38.5	2.2	89.8	.0	.0	.0	28.6	150.0	.3479
7027000	38.6	2.1	.0	.0	.0	.0	.0	.0	.3467
7027000	38.8	2.2	55.7	.0	.0	.0	.0	.0	.3442
7027000	39.0	2.0	.0	.0	.2	.2	.0	.0	.3416
7027000	39.1	.0	101.0	.0	.0	.0	.0	.0	.3404
7027000	39.2	1.8	102.0	.0	.0	.0	53.3	218.0	.3391
7027000	39.6	1.7	83.3	.0	.0	.0	.0	.0	.3339
7027000	39.8	.0	.0	.0	.2	.2	.0	.0	.3313
7027000	40.0	.0	.0	.0	.2	.2	.0	.0	.3286
7027000	40.1	.0	58.5	.0	.0	.0	.0	.0	.3273
7027000	40.3	1.4	.0	.0	.0	.0	.0	.0	.3246
7027000	40.4	.0	.0	.0	.2	.2	.0	.0	.3233
7027000	40.5	.0	41.7	.0	.0	.0	.0	.0	.3206
7027000	40.9	1.5	.0	.0	.0	.0	.0	.0	.3165
7027000	41.0	.0	29.9	.0	.2	.2	.0	.0	.3151
7027002	59.5	.0	6770.0	4826.0	.0	.0	.0	.0	.1271
7027003	7.0	1097.0	4357.0	1681.0	.0	.0	.0	.0	.1342
7027003	7.6	.0	4344.0	1512.0	.0	.0	.0	.0	.1351
7027003	8.1	.0	4216.0	1377.0	.0	.0	.0	.0	.1358
7027003	8.5	.0	4007.0	.0	.0	.0	.0	.0	.1365
7027003	8.5	.0	.0	1205.0	.0	.0	.0	.0	.1366
7027003	9.5	411.0	3781.0	.0	.0	.0	.0	.0	.1381

BCD LIST

.0	.3941	3,2040	41,592	42,14	267,76	821,6
.0	.3879	3,1131	37,464	41,20	269,70	848,1
.0	.3812	3,0353	34,205	40,42	271,19	869,6
.0	.3797	3,0168	33,451	40,22	271,55	874,9
.0	.3737	2,9445	30,612	39,42	272,99	896,5
.0	.3677	2,8703	27,900	38,60	274,38	918,2
.0	.3661	2,8516	27,239	38,40	274,72	923,7
.0	.3599	2,7752	24,683	37,56	276,06	945,6
.0	.3584	2,7567	24,092	37,35	276,39	951,0
.0	.3505	2,6664	21,320	36,29	277,99	978,6
.0	.3441	2,5970	19,339	35,43	279,24	1000,6
.0	.3409	2,5634	18,425	35,00	279,84	1011,7
.0	.3345	2,4962	16,694	34,13	281,03	1033,9
.0	.3248	2,3999	14,405	32,80	282,75	1067,3
.0	.3184	2,3393	13,079	31,91	283,85	1089,6
.0	.3168	2,3246	12,769	31,69	284,12	1095,1
.0	.3087	2,2533	11,332	30,56	285,45	1123,0
.0	.3055	2,2259	10,811	30,11	285,97	1134,2
.0	.3023	2,1991	10,316	29,66	286,45	1145,3
.0	.2943	2,1341	9,178	28,52	287,74	1173,2
.0	.2879	2,0856	8,380	27,60	288,71	1195,5
.0	.2879	2,0856	8,380	27,60	288,71	1195,5
.0	.2863	2,0738	8,193	27,38	288,95	1201,0
.0	.2800	2,0281	7,495	26,46	289,90	1223,2
.0	.2753	1,9950	7,014	25,77	290,59	1239,9
.0	.2706	1,9633	6,571	25,08	291,27	1256,5
.0	.2630	1,9135	5,912	23,93	292,38	1284,0
.0	.2569	1,8758	5,441	23,00	293,25	1306,0
.0	.2524	1,8490	5,120	22,31	293,89	1322,4
.0	.2465	1,8148	4,728	21,39	294,72	1344,3
.0	.2406	1,7824	4,372	20,46	295,54	1366,0
.0	.2363	1,7592	4,128	19,77	296,14	1382,2
.0	.2293	1,7228	3,762	18,62	297,13	1409,0
.0	.2279	1,7158	3,694	18,39	297,32	1414,3
.0	.3645	2,4495	17,189	40,44	243,27	865,6
.0	.3633	2,4399	16,932	40,24	243,63	870,9
.0	.3599	2,4106	16,177	39,64	244,72	887,1
.0	.3576	2,3906	15,676	39,24	245,43	897,9
.0	.3540	2,3595	14,921	38,63	246,47	914,2
.0	.3516	2,3389	14,435	38,21	247,15	925,1
.0	.3479	2,3079	13,723	37,59	248,15	941,5
.0	.3479	2,3079	13,723	37,59	248,15	941,5
.0	.3467	2,2975	13,491	37,38	248,48	947,0
.0	.3442	2,2768	13,035	36,96	249,13	957,9
.0	.3416	2,2561	12,587	36,53	249,77	968,9
.0	.3404	2,2458	12,372	36,32	250,09	974,4
.0	.3391	2,2356	12,157	36,10	250,40	980,0
.0	.3339	2,1947	11,326	35,24	251,53	1002,0
.0	.3313	2,1742	10,926	34,80	252,24	1013,1
.0	.3286	2,1537	10,533	34,37	252,83	1024,2
.0	.3273	2,1435	10,343	34,15	253,13	1029,8
.0	.3246	2,1234	9,972	33,71	253,71	1040,9
.0	.3233	2,1134	9,792	33,49	254,00	1046,4
.0	.3206	2,0936	9,440	33,04	254,57	1057,5
.0	.3165	2,0644	8,935	32,38	255,40	1074,2
.0	.3151	2,0548	8,772	32,15	255,68	1079,8
.0	.1271	1,4777	1,316	-28,19	277,99	2200,1
.0	.1342	1,7205	2,193	-40,24	294,09	2217,8
.0	.1351	1,7450	2,303	-41,08	295,63	2213,1
.0	.1358	1,7659	2,400	-41,75	296,94	2208,5
.0	.1365	1,7838	2,486	-42,28	298,01	2204,4
.0	.1366	1,7884	2,507	-42,41	298,29	2203,3
.0	.1381	1,8266	2,709	-43,55	300,79	2192,3

THIS PROGRAM READS DATA TAKEN FROM EXPLORER
GREATER THAN ONE HOUR DURATION, IF A ONE HOUR
CATERINGS, THEN A MESSAGE IS PRINTED WITH THE L
RECORD IN THE GREL BEFORE THE HOUR TIME GAP OCC
TIME - IN HOURS AND MINUTES, FINALLY, THE 'E/EC
'LOCAL TIME', FOR THE FOUR DETECTORS USED IN THE
RECORDED IN EIGHT SEPERATE MATRICES WITH 50 VALU
FOR THE 'E/EC VS. L' MATRICES AND 50 VALUES OF
FOR THE 'L VS. LOCAL TIME' MATRICES.

PROGRAM NUMBER A6.0

ON FROM EXPLORER 4 AND DETERMINES DATA GAPS OF
IF A ONE HOUR TIME GAP HAS ELAPSED BETWEEN DATA
PRINTED WITH THE LOCATION OF THE FIRST AND LAST
HOUR TIME GAP OCCURRED, THE DATE, AND THE UNIVERSAL
INITIALLY, THE 'B/ED' AND 'L' AND THE 'L' VERSUS
CURVES USED IN THE CHARGED PARTICLE EXPERIMENT. ARE
CURVES WITH 50 VALUES OF 'L' AND 30 VALUES OF 'B/ED'
AND 50 VALUES OF 'L' AND 24 VALUES OF 'LOCAL TIME'
CURVES.

NUMBER A6.02.014

IBLOR

UNUSED CORE

77726 THRU 77

RECORD NO. 17962 HAS HAD ERRORS DETECTED IN IT AND IS S
THE FIRST LINE SHOWS THE RECORD BEFORE THE CORRECTION A

9007002 34.0 1.4 .0 .0 .0 .0 .0

9007002 34.0 1.4 .0 .0 .0 .0 .0

RECORD NO. 17965 HAS HAD ERRORS DETECTED IN IT AND IS S
THE FIRST LINE SHOWS THE RECORD BEFORE THE CORRECTION A

9007002 34.7 1.5 .0 .0 .0 .0 .0

9007002 34.7 1.5 .0 .0 .0 .0 .0

U.S. GOVERNMENT PRINTING OFFICE: 1969 O-308-000

THRU 77777

AND IS SHOWN BELOW.

SECTION AND THE SECOND LINE SHOWS THE RECORD AFTER CORRECTION.

.0 .0 2444 0 6044 0 083 42 02 18 04 548.0

.0 .0 .2444 0.6044 0.083 42.02 18.04 548.0

AND IS SHOWN BELOW.

SECTION AND THE SECOND LINE SHOWS THE RECORD AFTER CORRECTION.

.0 .0 .3574 1.6151 1.073 40.67 20.97 518.5

.0 .0 .3574 1.6151 1.073 40.67 20.97 518.6

SB-C05A-013 EXPLORER-4 (1958 EPSILON 1) CHARGED PARTICLE

THE FOLLOWING RECORDS WERE FOUND TO HAVE TIME GAPS
THE FIRST AND THE LAST RECORD IN EACH TIME PERIOD

RECORD	DATE	UNIV. TIME	RECORD
1	7/26/58	22.46	34
16	7/27/58	6.37	226
57	7/27/58	2.59	24
81	7/27/58	10.57	7
88	7/27/58	12.5	8
96	7/27/58	14.8	8
104	7/27/58	16.46	19
123	7/27/58	18.6	76
199	7/27/58	22.39	42
241	7/28/58	0.44	31
272	7/28/58	2.12	11
283	7/28/58	4.54	9
292	7/28/58	6.53	12
304	7/28/58	8.49	16
320	7/28/58	10.50	18
338	7/28/58	14.48	13
351	7/28/58	16.42	19
370	7/28/58	18.40	67
437	7/28/58	22.27	65
502	7/28/58	23.50	34
536	7/29/58	2.46	37
573	7/29/58	6.2	24
597	7/29/58	8.42	18
612	7/29/58	10.42	38
650	7/29/58	13.26	13
663	7/29/58	17.51	24
687	7/29/58	19.47	54
741	7/29/58	22.20	35
776	7/29/58	23.40	69
845	7/30/58	2.37	54
899	7/30/58	6.0	12
911	7/30/58	8.33	17
928	7/30/58	10.32	64
992	7/30/58	13.20	2
994	7/30/58	14.32	3
997	7/30/58	16.23	7
1004	7/30/58	17.41	65
1059	7/30/58	22.15	35
1094	7/30/58	23.31	51
1145	7/31/58	2.28	30
1175	7/31/58	4.30	8
1183	7/31/58	6.56	5
1188	7/31/58	8.25	17
1205	7/31/58	10.24	6
1214	7/31/58	11.33	23
1237	7/31/58	13.35	69
1286	7/31/58	15.30	13
1339	7/31/58	22.2	22
1361	7/31/58	23.23	77
1438	8/ 1/58	2.20	20

D PARTICLE EXPERIMENT, ASSOC MAGNETIC TAPE NUMBER D-00618.

E TIME GAPS OF GREATER THAN ONE (1) HOUR BETWEEN THEM
LINE PERIOD IS GIVEN

E RECORD DATE UNIV. TIME

SAMPLE PROGRAM OUTPUT

34	7/26/58	22.56
22 ⁵⁸	7/27/58	0.41
24	7/27/58	3.36
7	7/27/58	11.0
8	7/27/58	12.12
8	7/27/58	14.14
19	7/27/58	16.55
76	7/27/58	20.52
42	7/27/58	22.54
31	7/28/58	0.55
11	7/28/58	2.59
9	7/28/58	4.57
12	7/28/58	7.21
16	7/28/58	8.55
18	7/28/58	12.6
13	7/28/58	15.4
19	7/28/58	16.58
67	7/28/58	20.44
65	7/28/58	22.47
34	7/29/58	0.48
37	7/29/58	4.51
24	7/29/58	6.50
15	7/29/58	8.48
38	7/29/58	11.56
13	7/29/58	14.44
24	7/29/58	18.40
54	7/29/58	20.46
15	7/29/58	22.38
69	7/30/58	0.46
64	7/30/58	4.9
12	7/30/58	7.7
17	7/30/58	8.39
64	7/30/58	11.52
2	7/30/58	13.23
3	7/30/58	14.36
7	7/30/58	16.31
55	7/30/58	20.3
35	7/30/58	22.30
51	7/31/58	0.36
30	7/31/58	3.2
8	7/31/58	4.36
5	7/31/58	6.58
17	7/31/58	8.32
6	7/31/58	10.30
23	7/31/58	11.41
69	7/31/58	18.16
13	7/31/58	19.36
22	7/31/58	22.21
77	8/ 1/58	0.27
20	8/ 1/58	2.28

SR-005A-01E EXPLORER-4 (1958 EPSILON 1) CHARGED PARTICLE

THE FOLLOWING RECORDS WERE FOUND TO HAVE TIME GAPS
THE FIRST AND THE LAST RECORD IN EACH TIME PERIOD

RECORD	DATE	UNIV. TIME	RECORD
1458	8/ 1/58	3.17	25
1483	8/ 1/58	8.16	101
1554	8/ 1/58	16. 6	50
1634	8/ 1/58	19.23	21
1655	8/ 1/58	21.56	16
1671	8/ 1/58	23.17	68
1739	8/ 2/58	2.10	21
1760	8/ 2/58	4.10	11
1771	8/ 2/58	5.29	31
1802	8/ 2/58	8. 6	78
1883	8/ 2/58	16. 4	42
1922	8/ 2/58	19.12	24
1946	8/ 2/58	21.44	14
1960	8/ 2/58	23. 1	34
1994	8/ 3/58	2. 0	15
2009	8/ 3/58	4. 0	8
2017	8/ 3/58	5.27	11
2028	8/ 3/58	7.58	14
2042	8/ 3/58	10. 0	45
2067	8/ 3/58	15.46	51
2148	8/ 3/58	19. 2	31
2179	8/ 3/58	21.35	18
2197	8/ 3/58	23.27	64
2261	8/ 4/58	2.20	57
2318	8/ 4/58	7.50	10
2328	8/ 4/58	9.46	49
2376	8/ 4/58	12. 8	4
2380	8/ 4/58	13.42	19
2398	8/ 4/58	14.57	140
2539	8/ 4/58	21.24	19
2558	8/ 4/58	23.17	31
2589	8/ 5/58	1.40	63
2652	8/ 5/58	5.17	7
2659	8/ 5/58	7.35	108
2767	8/ 5/58	11.57	3
2770	8/ 5/58	13.39	8
2778	8/ 5/58	14.45	117
2895	8/ 5/58	18.40	52
2947	8/ 5/58	21.13	22
2969	8/ 5/58	22.28	35
3004	8/ 6/58	1.31	66
3070	8/ 6/58	5.27	7
3077	8/ 6/58	7.25	170
3187	8/ 6/58	13.28	6
3193	8/ 6/58	14.36	112
3305	8/ 6/58	21. 4	68
3373	8/ 7/58	1.18	38
3411	8/ 7/58	5.16	9
3420	8/ 7/58	7.14	141
3561	8/ 7/58	14.26	81

LARGE PARTICLE EXPERIMENT, NSSDC MAGNETIC TAPE NUMBER C-00616.

HAVE TIME GAPS OF GREATER THAN ONE (1) HOLE BETWEEN THEM
 - TIME PERIOD IS GIVEN

TIME	RECORD	DATE	UNIV. TIME
	25	8/ 1/58	3.52
	101	8/ 1/58	14.22
	50	8/ 1/58	18. 9
	21	8/ 1/58	20. 7
	16	8/ 1/58	22.10
	68	8/ 2/58	0.20
	21	8/ 2/58	2.49
	11	8/ 2/58	4.17
	31	8/ 2/58	6.15
	78	8/ 2/58	14.12
	42	8/ 2/58	18. 0
	24	8/ 2/58	19.56
	14	8/ 2/58	21.57
	34	8/ 3/58	0. 7
	15	8/ 3/58	2.41
	8	8/ 3/58	4. 4
	11	8/ 3/58	6. 4
	14	8/ 3/58	8.21
	45	8/ 3/58	14.15
	61	8/ 3/58	17. 7
	31	8/ 3/58	19.48
	18	8/ 3/58	21.47
	64	8/ 3/58	23.59
	57	8/ 4/58	3.24
	10	8/ 4/58	8.20
	49	8/ 4/58	11. 2
	4	8/ 4/58	12. 9
	19	8/ 4/58	13.46
	140	8/ 4/58	19.40
	19	8/ 4/58	21.36
	31	8/ 4/58	23.47
	63	8/ 5/58	3.13
	7	8/ 5/58	5.43
	108	8/ 5/58	10.84
	3	8/ 5/58	11.59
	8	8/ 5/58	13.43
	117	8/ 5/58	17.33
	52	8/ 5/58	19.31
	22	8/ 5/58	21.26
	35	8/ 5/58	23.37
	66	8/ 6/58	3.36
	7	8/ 6/58	5.32
	110	8/ 6/58	11.31
	6	8/ 6/58	13.33
	112	8/ 6/58	19.20
	68	8/ 6/58	23.49
	58	8/ 7/58	2.37
	9	8/ 7/58	5.22
	141	8/ 7/58	13.21
	91	8/ 7/58	17.11

88-005A-01B EXPLORED-A (1958 EPSILON 1) CHARGED PARTICL

THE FOLLOWING RECORDS WERE FOUND TO HAVE TIME CA
THE FIRST AND THE LAST RECORD IN EACH TIME PERIOD

RECORD	DATE	UNIV. TIME	RECO
22307	9/15/58	16.45	2
22327	9/15/58	18.39	5
22386	9/15/58	20.3	15
22536	9/16/58	0.3	14
22706	9/16/58	7.45	
22711	9/16/58	8.57	
22712	9/16/58	11.20	11
22727	9/16/58	16.10	21
22751	9/16/58	17.37	5
22802	9/16/58	19.40	21
23019	9/17/58	1.23	21
23044	9/17/58	2.51	21
23067	9/17/58	11.50	14
23081	9/17/58	15.45	21
23104	9/17/58	17.9	31
23134	9/17/58	19.7	21
23155	9/17/58	21.4	16
23322	9/18/58	2.55	11
23337	9/18/58	5.3	
23342	9/18/58	11.22	11
23359	9/18/58	17.11	41
23401	9/18/58	19.1	
23403	9/18/58	20.6	100
23503	9/19/58	2.42	
23508	9/19/58	4.35	
23516	9/19/58	8.30	
23518	9/19/58	10.50	
23525	9/19/58	14.45	
23532	9/19/58	16.50	
23539	9/19/58	19.11	31
23572	9/19/58	20.32	31
23603	9/19/58	22.7	31
23636	9/20/58	0.1	11
23653	9/20/58	2.0	21
23674	9/20/58	7.46	
23677	9/20/58	12.19	
23684	9/20/58	15.5	14
23700	9/20/58	19.59	31
23734	9/20/58	21.33	74
23810	9/20/58	23.25	51
23860	9/21/58	23.54	

CHARGED PARTICLE EXPERIMENT, NSSDC MAGNETIC TAPE NUMBER D-CC616.

DO HAVE TIME GAPS OF GREATER THAN ONE (1) HOUR BETWEEN THEM
EACH TIME PERIOD IS GIVEN

TIME	RECORD	DATE	UNIV. TIME
.45	20	9/15/58	17.2
.39	59	9/15/58	19.1
.2	163	9/15/58	22.47
.3	147	9/16/58	6.2
.45	5	9/16/58	7.50
.57	1	9/16/58	8.57
.20	15	9/16/58	12.20
.10	24	9/16/58	16.32
.37	51	9/16/58	18.29
.40	217	9/17/58	0.12
.23	25	9/17/58	1.45
.51	23	9/17/58	5.36
.60	14	9/17/58	11.59
.45	23	9/17/58	16.5
.6	30	9/17/58	18.2
.7	21	9/17/58	19.59
.4	167	9/18/58	1.18
.55	15	9/18/58	3.13
.3	5	9/18/58	5.6
.22	17	9/18/58	11.31
.11	42	9/18/58	17.29
.1	2	9/18/58	19.1
.6	100	9/19/58	0.50
.42	5	9/19/58	2.44
.35	8	9/19/58	4.36
.30	2	9/19/58	8.30
.50	7	9/19/58	11.1
.45	7	9/19/58	14.49
.50	7	9/19/58	16.54
.11	33	9/19/58	19.1
.32	31	9/19/58	20.52
.7	33	9/19/58	22.45
.1	17	9/20/58	0.20
.0	21	9/20/58	4.9
.16	3	9/20/58	7.45
.10	7	9/20/58	12.22
.5	16	9/20/58	16.29
.59	34	9/20/58	20.22
.33	76	9/20/58	22.19
.26	50	9/21/58	0.10
.54	7	9/21/58	24.0

GED PARTICLE EXPERIMENT, NSDDC MAGNETIC TAPE NUMBER D-CC616,
AND L FOR THE SHIELDED GM TUBE DETECTOR

	-10.	-12.	-14.	-16.	-18.	-20.	-30.	-35.	-40.	-45.	-50.	-60+
C	0	0	0	0	0	0	0	C	C	0	0	0
0	0	0	0	0	0	0	C	C	0	0	0	0
0	C	C	C	C	C	C	0	0	C	C	C	C
0	0	0	0	0	0	0	C	C	0	0	0	0
0	C	0	C	C	C	0	0	0	C	C	C	C
0	0	0	0	0	0	0	C	C	0	0	0	0
0	C	C	C	C	C	0	0	0	C	C	C	C
12	0	0	0	0	0	0	C	C	0	0	0	0
90	C	C	C	C	C	0	0	0	C	C	C	C
114	63	0	0	0	0	0	C	C	0	0	0	0
143	54	43	C	C	0	0	0	0	C	C	C	C
103	129	117	37	2	0	0	C	C	0	0	0	0
43	122	153	137	25	4	0	0	C	C	C	C	C
45	110	239	119	70	32	E	C	0	0	0	0	0
11	81	123	52	63	58	47	0	C	C	C	C	C
8	22	101	100	69	51	117	C	C	0	0	0	0
1	6	23	120	75	66	167	7	C	C	C	C	C
C	1	0	23	78	83	155	26	1	0	0	0	0
0	0	C	1	21	36	209	51	20	C	C	C	C
C	0	0	0	0	16	167	52	45	13	0	0	0
0	C	C	C	C	2	126	44	33	37	E	C	C
C	0	0	0	0	0	75	53	36	33	38	E	C
0	0	C	C	C	C	40	43	39	30	31	35	C
C	0	0	0	0	0	10	69	32	40	20	52	C
0	C	C	C	C	0	1	25	27	22	31	66	C
C	0	0	0	0	0	C	5	29	46	33	93	C
0	C	C	C	C	0	0	0	E	31	34	126	C
C	0	0	0	0	0	C	C	0	16	21	155	C
0	C	C	C	C	0	0	0	C	2	10	139	C
C	0	0	0	0	0	C	C	0	0	6	158	C
0	C	C	C	C	0	0	0	C	C	C	134	C
C	0	0	0	0	0	C	C	0	0	0	126	C
0	0	C	C	0	0	0	C	C	C	C	156	C
C	0	0	0	0	0	C	C	0	0	0	122	C
0	C	C	C	C	0	0	0	C	C	C	122	C
C	0	0	0	0	0	C	C	0	0	0	124	C
0	C	C	C	C	0	0	0	C	C	C	140	C
C	0	0	0	0	0	C	C	0	0	0	141	C
0	C	C	C	C	0	0	0	C	C	C	111	C
C	0	0	0	0	0	C	C	0	0	0	147	C
0	C	C	C	C	0	0	0	C	C	C	131	C
C	0	0	0	0	0	C	C	0	0	0	73	C
0	C	C	C	C	0	0	0	C	C	C	57	C
C	0	0	0	0	0	C	C	0	0	0	64	C
0	C	C	C	C	0	0	0	C	C	C	43	C
C	0	0	0	0	0	C	C	0	0	0	52	C
0	C	C	C	C	C	0	0	C	C	C	11	C
C	0	0	0	0	0	C	C	0	0	0	8	C
0	0	C	C	0	0	C	0	C	C	C	E	C
C	0	0	0	0	0	C	C	0	0	0	3	C

