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4. CATALOG MATERIALS.

1. Introduction:

The documentation for this data set was originally on paper kept in NSSDC's Data Set Catalogs (DSCs). The offline tape datasets have now been migrated from the original magnetic tape to magnetic disk (starting in mid-2004). Accordingly, statements in the format descriptions that address such tape relevant factors as blocking and bit density are no longer applicable. The paper documentation in the DSCs have been scanned and made into digital images of the pages, 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. But this inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system, and the user should go to that interface (JIN) if further information is desired on possible later changes to the inventory information. The information existing in the DSCs is now not needed for locating data files, but we did not go to the trouble of removing that inventory information.

2. CHANGE LOG

Version	Date	Person	Page	Description of Change
01	10/19/2004	JManuel	1-6	Added to document

3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:
[NOTE: ANY OF THE INFORMATION FIELDS MIGHT BE BLANK.]
[THE "MATERIALS FOR DISTRIBUTION" FIELD IS HERE CALLED JUST "MATERIALS"]

"Remarks" for spacecraft SCNAME1":
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A--remark--

"Materials" for spacecraft SCNAME1":
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A--mat--

"Remarks" for SCNAME1 experiment EXNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A&ex=09--remark--

"Materials" for SCNAME experiment EXNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102&ex=09--mat--

"Remarks" for EXNAME1 data set DSNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--remark--

"Materials" for EXNAME1 data set DSNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--mat--

"Remarks" for EXNAME1 data set DSNAME2:
http://nssdc.gsfc.nasa,gov/database/MasterCatalog?ds=SPHE-00677--remark--

"Materials" for EXNAME1 data set DSNAME2:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--mat--

"Remarks" for EXNAME1 data set DSNAME3:

"Materials" for EXNAME1 data set DSNAME3:

"Remarks" for SCNAME1 experiment EXNAME2:

"Materials" for SCNAME1 experiment EXNAME2:

"Remarks" for EXNAME2 data set DSNAME1:
"Materials" for EXNAME2 data set DSNAME1:

"Remarks" for EXNAME2 data set DSNAME2:
"Materials" for EXNAME2 data set DSNAME2:

“Remarks” for spacecraft SCNAME2”:
http://nssdc.gsfc.nasa.gov/database/MaterCatalog?sc=1978-079A--??--

“Materials” for spacecraft SCNAME2:
http://nssdc.gsfc.nasa.gov/database/MaterCatalog?sc=1978-079A--??--

“Remarks” for SCNAME2 experiment EXNAME1:
http://nssdc.gsfc.nasa.gov/database/MaterCatalog?sc=1978-079A&ex=03--??--

“Materials” for SCNAME2 experiment EXNAME1”
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1978-079A&ex=03--??--

“Remarks” for EXNAME1 data set DSNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE--00011--remark--

“Materials” for EXNAME1 data set DSNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE--00011--remark--

“Remarks” for EXNAME1 data set DSNAME2:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00014--remark--

“Materials” for EXNAME1 data set DSNAME2:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00014--remark--

“Remarks” for EXNAME1 data set DSNAME3:

“Materials” for EXNAME1 data set DSNAME3:

“Remarks” for SCNAME2 experiment EXNAME2:

“Materials” for SCNAME2 experiment EXNAME2:

“Remarks” for EXNAME2 data set DSNAME1:

“Materials” for EXNAME2 data set DSNAME1:

“Remarks” for EXNAME2 data set DSNAME2:

“Materials” for EXNAME2 data set DSNAME2:

“Remarks” for data set DSNAME3:

“Materials” for EXNAME data set DSNAME3:

“Remarks” for SCNAME2 experiment EXNAME3:

“Materials” for SCNAME2 experiment EXNAME3:

“Remarks” for EXNAME3 data set DSNAME1:

“Materials” for EXNAME3 data set DSNAME1:

“Remarks” for EXNAME3 data set DSNAME2:

“Materials” for EXNAME3 data set DSNAME2:

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=-=-= -

ALTERNATE OPTION:

For SCNAME2:

“Remarks” for EXNAME1 data set DSNAME2:

http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00014--remark--

“Materials” for EXNAME1 data set DSNAME2:

http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00014--mat--

can be shown as

“Remarks” for EXNAME1 data set DSNAME2:

http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=78-079A-03C--remark--

“Materials” for EXNAME1 data set DSNAME2:

http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=78-079A-03C--mat--

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=-=-= -

4. CATALOG MATERIALS:

DATA SET CATALOG #18

INTERIM DATA SET CATALOG
EXPLORER 28 TRAJECTORY

65-042A-00G 4 tapes

65-042A-00G

EXPLORER 28 TRAJECTORY

Tape #1 - D-1458 (unmerged)

Partial Listing

of beginning and end

5-25-65 to 8-3-65

4 tapes

May 31, 1972

To: Data Repository

From: ADP Services JPJ

Subject: Release of data tapes (RB0059)

Please release the 'DD' tapes and copies of the following data sets:

63-046A-00D, 00E, and 00F

64-060A-00D, 00E, and 00F

65-042A-00D, 00E, and 00F

These data sets have been sucessfully merged into the 00G data set.

63-046A-00D -00E - 00F		64-060A-00D -00E -00F	
DD00295	DC00128	DD00300	DC00132
DD00296	DC00129	DD00301	DC00130
DD05564	DC03912	DD00302	DC00131
DD00293	DC03911	DD00303	
DD05565		DD00297	
DD00294		DD00298	
DD00339		DD00299	
DD00340		DD00343	
DD01517		DD00341	
DD01518		DD00342	
DD01519		DD01525	
DD01520		DD01526	DD01523
DD01516		DD01527	DD01524
DD01521		DD01533	DD01522

65-042A-00D -00E -00F

DD01464	DD01482	DD01506	DC01072
DD01470	DD02897	DD01497	
DD01476	DD01483	DD01507	
DD01465	DD02896	DD01498	
DD01466	DD01479	DD01508	
DD01477	DD01484	DD01509	
DD01467	DD01480	DD01667	
DD01478	DD02898	DD01499	
DD01468	DD01485	DD01510	
DD01458	DD01481		
DD01469	DD01500		
DD01459	DD01511		
DD01460	DD01501		
DD01471	DD01512		
DD01472	DD01502		
DD01461	DD01513		
DD01473	DD01503		
DD01462	DD01514		
DD01474	DD01504		
DD01463	DD01495		
DD01475	DD01505		
DD01486	DD01496		

65-042A-00D Explorer 28, Ephemeris (Inertial - Unmerged)
65-042A-00E Explorer 28, Ephemeris (Inertial - Merged)

Theoretical Field and Parameters
Definition of Symbols Used in the Printout

M(-69.,11.7)	- Longitude and co-latitude of the earth magnetic dipole in rotating geocentric coordinates measured in degrees.
SA(125.1,-22.8)	- Right ascension and declination in degrees of the satellite spin axis.
SUN(X,Y)	- Right ascension and declination in degrees of the sun.
THETA	- The angle in degrees between the celestial inertial X-axis and the rotating geocentric X-axis.

DY, HR, MN	- Day count of year, hour and minutes of day.
GLAT, GLONG	- Geodetic latitude and longitude in degrees of satellite.
ELEV	- Elevation in kilometers of satellite.
MLAT, MLONG	- Geomagnetic latitude and longitude in degrees of satellite.
BN, BE, BV	- North, east and vertical components of the earth magnetic field (vertical is positive towards the earth) at probe position.
B	- Magnitude of field at probe position.
BPER, BPAR	- Payload coordinate decomposition of field into components perpendicular and parallel to the spin axis.
ALPHA	- The angle in degrees between the spin axis and the field vector.
PSI	- The angle in degrees between BPER and the perpendicular-to-the-spin-axis component of the satellite sun vector.
SUNA	- The angle in degrees between the probe spin axis and the satellite sun vector.
XI, YI, ZI	- Celestial inertial coordinates in earth radii of the satellite.

The format for items 5 (DY) through 20 (ZI) respectively on the master orbital trajectory data tape is: FORMAT (1X, 3I3, 2F7.2, F8.0, 2F6.1, 6F8.1, 3F6.1, 3F6.2).

The first four items are not included on the data tape.

IMP-C TRAJ, FROM 05/29/65 TO 06/03/65 DEFINITIVE BEGIN C
END DATE= 65 6 3

149 12 10 13.36 -48.39 397. 24.2 22.1 22778.1 -6517.5 20206.2 31138.6 18070.4
18.0 32.6 0.57 0.37 0.24

149 12 15 0.12 -29.22 1243. 9.1 40.4 15747.8 -5024.7 1969.2 14646.9 15217.3
16.7 32.6 0.90 0.79 0.00

149 12 20 -9.98 -15.17 2520. -2.9 52.8 9255.4 -2777.9 -3206.0 10181.2 9840.5
22.6 32.6 0.76 1.15 -0.24

149 12 25 -16.94 -4.69 4006. -11.5 61.7 5632.5 -1582.1 -3602.9 6870.8 5394.8
15.8 32.6 0.57 1.45 -0.47

149 12 30 -21.65 3.31 5576. -17.6 68.4 3659.1 -995.8 -3058.2 4871.7 3051.4
2.1 32.6 0.37 1.70 -0.69

149 12 35 -24.90 9.54 7167. -22.0 73.6 2511.0 -679.6 -2459.6 3580.0 1917.3
47.1 32.6 0.16 1.92 -0.89

149 12 40 -27.19 14.46 8748. -25.2 77.8 1800.7 -489.6 -1964.7 2709.7 1366.2
31.2 32.6 -0.05 2.11 -1.08

149 12 45 -28.84 18.39 10306. -27.6 81.1 1339.2 -366.4 -1580.1 2103.4 1075.1
17.5 32.6 -0.26 2.28 -1.26

149 12 50 -30.06 21.57 11835. -29.4 83.9 1026.9 -282.2 -1284.9 1658.8 896.4
07.9 32.6 -0.47 2.43 -1.43

149 12 55 -30.98 24.15 13332. -30.8 86.1 808.1 -222.7 -1057.6 1349.5 769.5
00.6 32.6 -0.67 2.56 -1.59

149 13 0 -31.67 26.25 14796. -31.9 88.0 650.1 -179.3 -880.9 1109.4 670.5
95.4 32.6 -0.88 2.69 -1.74

149 13 5 -32.20 27.95 16229. -32.8 89.5 533.0 -146.9 -742.1 925.4 589.6
91.5 32.6 -1.08 2.80 -1.89

149 13 10 -32.61 29.34 17632. -33.5 90.7 444.2 -122.2 -631.7 781.8 521.
88.7 32.6 -1.27 2.90 -2.03

149 13 15 -32.93 30.45 19006. -34.0 91.7 375.4 -103.1 -542.8 667.9 463.
86.4 32.6 -1.47 3.00 -2.16

149 13 20 -33.18 31.34 20353. -34.5 92.5 321.2 -88.0 -470.4 576.7 413.
84.7 32.6 -1.65 3.09 -2.29

149 13 25 -33.37 32.04 21673. -34.8 93.2 277.8 -75.9 -410.9 501.7 371.
83.4 32.6 -1.84 3.18 -2.42

149 13 30 -33.52 32.56 22969. -35.0 93.6 242.6 -66.1 -361.4 440.2 334.
82.3 32.6 -2.03 3.26 -2.54

149 13 35 -33.64 32.95 24241. -35.2 94.0 213.6 -58.0 -318.9 388.1 302.
81.4 32.6 -2.21 3.33 -2.66

149 13 40 -33.72 33.20 25491. -35.4 94.2 189.5 -51.4 -284.9 346.0 274.
80.7 32.6 -2.39 3.40 -2.77

149 13 45 -33.79 33.35 26720. -35.5 94.3 169.3 -45.8 -255.1 309.6 249.
80.2 32.6 -2.55 3.47 -2.88

BEGIN DATE= 65 5 29 REC 1. LENGTH 132

206.2	31138.6	18070.4	-25358.9	144.5	3	REC	2. LENGTH	132
969.2	16646.9	15217.3	-6749.4	113.9		REC	3. LENGTH	132
206.0	10181.2	9840.5	2611.7	75.1		REC	4. LENGTH	132
602.9	6870.8	5394.8	4254.9	51.7		REC	5. LENGTH	132
058.2	4871.7	3051.4	3797.7	38.8		REC	6. LENGTH	132
459.6	3580.0	1917.3	3023.3	32.4	3	REC	7. LENGTH	132
964.7	2709.7	1366.2	2340.0	30.3	3	REC	8. LENGTH	132
1580.1	2103.4	1075.1	1807.8	30.7	3	REC	9. LENGTH	132
1284.9	1658.8	896.4	1407.6	32.5	3	REC	10. LENGTH	132
1057.6	1349.5	769.5	1108.6	34.8	3	REC	11. LENGTH	132
-880.9	1109.4	670.5	883.9	37.2	2	REC	12. LENGTH	132
-742.1	925.4	589.4	713.5	39.6	2	REC	13. LENGTH	132
-631.7	781.8	521.3	582.6	41.8	2	REC	14. LENGTH	132
-542.8	667.9	463.5	481.0	43.9	2	REC	15. LENGTH	132
-470.4	576.3	413.9	401.0	45.9	2	REC	16. LENGTH	132
-410.9	501.7	371.3	337.4	47.7	2	REC	17. LENGTH	132
-361.4	440.2	334.4	286.3	49.4	2	REC	18. LENGTH	132
-319.9	389.1	302.4	244.8	51.0	2	REC	19. LENGTH	132
-284.9	346.0	274.4	210.8	52.5	2	REC	20. LENGTH	132
-255.1	309.6	249.9	182.7	53.8	2	REC	21. LENGTH	132

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149 13 50 -33.83  33.40  27929. -35.5  94.4   152.2   -41.0  -229.5   278.4   228.
79.7  32.6 -2.74  3.53 -2.99

149 13 55 -33.86  33.36  29119. -35.5  94.3   137.6   -37.0  -207.4   251.6   209.
79.4  32.6 -2.91  3.59 -3.10

149 14  0 -33.88  33.25  30290. -35.5  94.2   125.0   -33.6  -188.2   228.3   192.
79.1  32.6 -3.08  3.65 -3.20

149 14  5 -33.88  33.06  31445. -35.5  94.0   114.0   -30.6  -171.4   208.1   177.
78.8  32.6 -3.24  3.70 -3.30

149 14 10 -33.88  32.81  32583. -35.4  93.8   104.5   -28.0  -156.6   190.4   164.
78.7  32.6 -3.41  3.76 -3.40

149 14 15 -33.87  32.51  33704. -35.4  93.5    96.1   -25.7  -143.7   174.8   152.
78.6  32.6 -3.57  3.81 -3.50

149 14 20 -33.86  32.15  34811. -35.3  93.1    88.8   -23.7  -132.1   160.9   141.
78.5  32.6 -3.73  3.85 -3.59

149 14 25 -33.84  31.75  35903. -35.2  92.7    82.2   -21.9  -121.9   148.6   131.
78.4  32.6 -3.89  3.90 -3.69

149 14 30 -33.81  31.30  36981. -35.1  92.3    76.4   -20.3  -112.7   137.7   122.
78.4  32.6 -4.04  3.94 -3.78

149 14 35 -33.78  30.82  38046. -34.9  91.8    71.2   -18.9  -104.5   127.8   114.
78.4  32.6 -4.20  3.99 -3.87

149 14 40 -33.75  30.30  39098. -34.8  91.3    66.5   -17.6   -97.1   119.0   107.
78.4  32.6 -4.35  4.03 -3.96

149 14 45 -33.71  29.74  40137. -34.7  90.8    62.3   -16.5   -90.4   111.0   100.
78.5  32.6 -4.50  4.07 -4.04

149 14 50 -33.68  29.15  41164. -34.5  90.2    58.5   -15.5   -84.3   103.8    94.
78.5  32.6 -4.65  4.10 -4.13

149 14 55 -33.64  28.54  42180. -34.4  89.6    55.0   -14.5   -78.8    97.2    89.
78.6  32.6 -4.80  4.14 -4.21

149 15  0 -33.60  27.90  43184. -34.2  89.0    51.9   -13.7   -73.8    91.3    84.
78.7  32.6 -4.95  4.18 -4.30

149 15  5 -33.56  27.23  44178. -34.0  88.4    49.0   -12.9   -69.3    85.8    79.
78.8  32.6 -5.09  4.21 -4.38

149 15 10 -33.51  26.54  45161. -33.8  87.7    46.4   -12.2   -65.1    80.8    75.
79.0  32.6 -5.23  4.24 -4.46

149 15 15 -33.47  25.83  46134. -33.6  87.0    43.9   -11.5   -61.2    76.2    71.
79.1  32.6 -5.38  4.27 -4.54

149 15 20 -33.43  25.10  47097. -33.5  86.3    41.7   -10.9   -57.7    72.0    67.
79.2  32.6 -5.52  4.30 -4.62

149 15 25 -33.38  24.35  48051. -33.3  85.6    39.7   -10.4   -54.4    68.1    64.
79.4  32.6 -5.66  4.33 -4.69

149 15 30 -33.34  23.58  48995. -33.1  84.9    37.8    -9.9   -51.4    64.5    60
```

29.5	278.4	228.3	159.2	55.1	2	REC	22. LENGTH	132
07.4	251.6	209.3	139.6	56.3	2	REC	23. LENGTH	132
88.2	228.3	192.4	122.9	57.4	2	REC	24. LENGTH	132
71.4	208.1	177.4	109.8	58.5	2	REC	25. LENGTH	132
56.6	190.4	164.0	96.7	59.5	2	REC	26. LENGTH	132
43.7	174.8	152.0	86.3	60.4	2	REC	27. LENGTH	132
32.1	160.9	141.2	77.3	61.3	2	REC	28. LENGTH	132
21.9	148.6	131.4	69.4	62.2	2	REC	29. LENGTH	132
12.7	137.7	122.6	62.6	63.0	2	REC	30. LENGTH	132
04.8	127.8	114.6	56.6	63.7	2	REC	31. LENGTH	132
97.1	119.0	107.4	51.3	64.5	2	REC	32. LENGTH	132
90.4	111.0	100.7	46.6	65.2	2	REC	33. LENGTH	132
84.3	103.8	94.7	42.5	65.8	2	REC	34. LENGTH	132
78.8	97.2	89.1	38.8	66.5	2	REC	35. LENGTH	132
73.8	91.3	84.1	35.5	67.1	2	REC	36. LENGTH	132
69.3	85.8	79.4	32.6	67.7	2	REC	37. LENGTH	132
65.1	80.8	75.1	29.9	68.3	2	REC	38. LENGTH	132
61.2	76.2	71.1	27.5	68.8	2	REC	39. LENGTH	132
57.7	72.0	67.4	25.4	69.3	2	REC	40. LENGTH	132
54.4	68.1	64.0	23.5	69.9	2	REC	41. LENGTH	132
51.4	64.5	60.8	21.7	70.4	2	REC	42. LENGTH	132

```
97.8  32.6-14.73  5.18 -9.15

 149 22 35 -30.35 -65.95 109612. -18.7   3.4    4.9    -0.1    -3.2    5.8
97.8  32.6-14.81  5.18 -9.19

 149 22 40 -30.33 -66.41 110178. -18.6   2.4    4.8    -0.0    -3.2    5.8
97.9  32.6-14.90  5.18 -9.22

 149 22 45 -30.30 -67.56 110742. -18.6   1.3    4.7    -0.0    -3.1    5.7
97.9  32.6-14.98  5.18 -9.26

 149 22 50 -30.28 -68.71 111304. -18.6   0.3    4.7     0.0    -3.1    5.6
98.0  32.6-15.07  5.18 -9.30

 149 22 55 -30.26 -69.87 111863. -18.5  -0.8    4.6     0.0    -3.0    5.5
98.0  32.6-15.15  5.18 -9.34

 149 23  0 -30.23 -71.02 112420. -18.5  -1.8    4.5     0.0    -3.0    5.4
98.0  32.6-15.24  5.18 -9.37

 149 23  5 -30.21 -72.18 112975. -18.5  -2.9    4.5     0.1    -3.0    5.4
98.0  32.6-15.32  5.18 -9.41

 149 23 10 -30.18 -73.34 113528. -18.5  -4.0    4.4     0.1    -2.9    5.3
98.0  32.6-15.40  5.18 -9.45
```

.2	5.8	5.8	-0.9	99.3	2	REC	127. LENGTH	132
.2	5.8	5.7	-1.0	99.6	2	REC	128. LENGTH	132
.1	5.7	5.6	-1.0	100.0	2	REC	129. LENGTH	132
.1	5.6	5.5	-1.0	100.3	2	REC	130. LENGTH	132
.0	5.5	5.4	-1.0	100.6	2	REC	131. LENGTH	132
.0	5.4	5.3	-1.0	100.9	2	REC	132. LENGTH	132
.0	5.4	5.3	-1.0	101.2	2	REC	133. LENGTH	132
.9	5.3	5.2	-1.1	101.5	2	REC	134. LENGTH	132

215 10 45 -25.77 63.12 235159. -33.2 127.0 0.5 -0.1 -0.6 0.8
46.2 73.3-34.03 2.28-16.46

215 10 50 -25.76 61.85 235310. -33.0 125.7 0.5 -0.1 -0.6 0.8
46.5 73.3-34.05 2.26-16.46

215 10 55 -25.74 60.66 235460. -32.8 124.4 0.5 -0.1 -0.6 0.8
46.7 73.3-34.08 2.25-16.47

215 11 0 -25.73 59.44 235610. -32.6 123.1 0.5 -0.1 -0.6 0.8
47.0 73.3-34.10 2.24-16.47

215 11 5 -25.72 58.21 235760. -32.4 121.8 0.5 -0.1 -0.6 0.8
47.2 73.3-34.13 2.22-16.47

215 11 10 -25.70 56.98 235909. -32.1 120.6 0.5 -0.1 -0.6 0.8
47.5 73.3-34.16 2.21-16.47

215 11 15 -25.69 55.75 236057. -31.9 119.3 0.5 -0.1 -0.6 0.8
47.7 73.4-34.18 2.20-16.48

215 11 20 -25.66 54.52 236204. -31.7 118.0 0.5 -0.1 -0.6 0.8
48.0 73.4-34.21 2.18-16.48

215 11 25 -25.67 53.29 236352. -31.4 116.7 0.5 -0.1 -0.6 0.8
48.3 73.4-34.23 2.17-16.48

-0.6	0.8	0.8	-0.2 106.5 3	REC	1. LENGTH	132
-0.6	0.8	0.8	-0.2 106.4 3	REC	2. LENGTH	132
-0.6	0.8	0.8	-0.2 106.3 3	REC	3. LENGTH	132
-0.6	0.8	0.7	-0.2 106.3 3	REC	4. LENGTH	132
-0.6	0.8	0.7	-0.2 106.2 3	REC	5. LENGTH	132
-0.6	0.8	0.7	-0.2 106.1 3	REC	6. LENGTH	132
-0.6	0.8	0.7	-0.2 106.0 3	REC	7. LENGTH	132
-0.6	0.8	0.7	-0.2 105.9 3	REC	8. LENGTH	132
-0.6	0.8	0.7	-0.2 105.9 3	REC	9. LENGTH	132