

Data Set Catalog #202

OGO-5, 147 sec. electron
40 sec. X-Ray

68-014A-04A

3 tapes

68-014A-04B

10 tapes

Table of Contents

1. Introduction
2. Errata/Change Log
3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM
4. Catalog Materials
 - a. Associated Documents
 - b. Core Catalog Materials

1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

OGO 5

SPHE 00725

147S AV ELECT&X-RAY CNT RATES TAPE

68-014A-04A

This data set has been restored. There were originally three 7-track, 556 BPI tapes written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tapes were created on a 7094 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR04003	DS04003	D10917	1 - 214	05/31/68 - 12/31/68
		D10918	215 - 395	01/01/69 - 06/30/69
		D10919	396 - 491	07/01/69 - 10/04/69

o Read errors occurred in records 14, & 15 of File 64.

SPHE 00122

OGO 5

40 SECOND AVERAGE X-RAY COUNT RATE, TAPE

68-014A-04B

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 10
7-TRACK, 556 BPI TAPES, WRITTEN IN BCD. THERE IS ONE
RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS
TAPE IS A 9-TRACK, 6250 BPI, WRITTEN IN ASCII. THE TAPES WERE
CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG
WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR03683	DS03683	D10920	1-60	03/08/68 - 05/15/68
		D10921	61-120	05/16/68 - 07/14/68
		D10922	121-180	07/15/68 - 09/12/68
		D10923	181-240	09/13/68 - 11/11/68
		D10924	241-290	11/12/68 - 12/31/68
		D10925	291-350	01/01/69 - 03/01/69
		D10926	351-410	03/02/69 - 04/30/69
		D10927	411-470	05/01/69 - 06/30/69
		D10928	471-531	07/01/69 - 08/31/69
		D10929	532-565	09/01/69 - 10/04/69

Req Agent
JCH

RASH No.
RB3173

Acq Agent
JJB

OGO-5

68-014A-04A

68-014A-04B

This data set catalogue consists of OGO-5 data from two experiments. 68-014A-04A consists of three tapes (D-10917 - D-10919) and is 147 Sec. Electron data. 68-014A-04B consists of ten tapes (D-10920 - D-10929) and is 40 Sec. x-Ray data. All thirteen tapes were generated on CDC 6000 series equipment and are 556 BPI, 7-track, even parity, BCD tapes.

68-014A-04A

D-10917

C-08325

D-10918

C-08326

D-10919

C-08327

5/31/68 - 12/31/68
1/1/69 - 6/30/69
7/1/69 - 10/4/69

68-014A-04B

D-10920

C-08328

D-10921

C-08329

D-10922

C-08330

D-10923

C-08331

D-10924

C-08332

D-10925

C-08333

D-10926

C-08334

D-10927

C-08335

D-10928

C-08336

D-10929

C-08337

3/8/68 - 5/15/68
5/16/68 - 7/14/68
7/15/68 - 9/12/68
9/13/68 - 11/11/68
11/12/68 - 12/31/68
1/1/69 - 3/1/69
3/2/69 - 4/30/69
5/1/69 - 6/30/69
7/1/69 - 8/31/69
9/1/69 - 10/4/69

X-ray activity was very low at the times of these measurements. The background counting rates of the seven differential energy channels, viz. channels 1 through 7, are primarily due to the diffuse cosmic X-ray flux. Therefore these rates are expected to remain essentially constant with time unless the detector calibration changes. The background rate of the integral energy channel, viz. channel 8, is primarily due to the galactic cosmic rays and is subject to solar cycle variation even if the detector calibration remains unchanged. Table 8 shows that over a period of nearly two and one-half years there is no detectable degradation in the performance of the solar X-ray experiment.

The detector D_7 in the proton- α telescope was found to be very noisy just prior to the launch. It was therefore disabled electronically. Consequently the data for protons >200 MeV and α -particles >800 MeV are not available. The rest of the experiment performed normally.

The performance of the electron spectrometer was normal since launch until 23 September 1969. On that day the 22-27 keV channel became erratic and later stopped counting completely. The cause of this malfunction is believed to be the failure of the corresponding GM counter. The 50-90 KeV electron channel, however, continued to function normally.

V. DATA TO BE SUPPLIED TO THE NATIONAL SPACE SCIENCE DATA CENTER

The magnetic tape supplied to the National Space Sciences Data Center contains the eight 39.864-second unnormalized counting rates from the X-ray detector. A second set of tapes contain 147.456-second averages from the two electron detectors and channels 1 and 8 from the X-ray experiment. A third set of tapes contain the data from the six proton channels.

TABLE 9

BCD CARD IMAGE OF THE TAPE RECORD FORMAT

	<u>COLUMN</u>	<u>FORMAT</u>	<u>DESCRIPTION</u>
X-ray 68-014A-04B	1 - 3	I 3	Day
	4 - 8	I 5	Time in seconds
	9 - 17	E 9.2	Un-normalized x-ray rate (UXR) of channel 1 *
	18 - 26	E 9.2	UXR of channel 2
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	72 - 80	E 9.2	UXR of channel 8
Electrons 68-014A-04A	1 - 3	I 3	Day
	4 - 8	I 5	Time in seconds
	9 - 17	E 9.2	Electrons (50-90 keV): B1
	18 - 26	E 9.2	Electrons (22-27 keV): B2
	27 - 35	E 9.2	X-rays channel 1
	36 - 44	E 9.2	X-rays channel 8
Protons	1 - 3	I 3	Day
	4 - 8	I 5	Time in seconds
	9 - 17	E 9.2	Proton channel 1 +
	17-25	E 9.2	Proton channel 2
	.	.	.
	.	.	.
	.	.	.
	.	.	.
	54 - 62	E 9.2	Proton channel 6

* X-ray channel 1 is the lowest energy channel (9.6-19.2 keV).

+ Proton channel 1 is the lowest energy channel (7-20 MeV).

The tapes were generated on CDC 6000 series equipment and are 556 bpi, 7 track, even parity (BCD) tapes. The tapes are formatted on a one file/day basis (each day's data is contained in one tape file with the files separated by a standard end of file mark). Each physical record within the file contains 37 eighty column card images for a total of 2960 BCD characters per record. Trailing blanks fill the last record of each file. A double end of file terminates the tape.

The following Tables, 9 and 10, describe the format of the logical tape record (i.e. the BCD card image) for each type of tape.

VI. MAJOR COMPUTER PROGRAMS

Figure 8 shows a schematic of the major computer programs used to process the OGO-5 experiment data. All programs were initially written for the Berkeley Campus Computer Center CDC 6400 system. They were subsequently modified for the Lawrence Berkeley Laboratory CDC 6600/7600 system and currently run there.

1. LISTER

LISTER generates printer listings for electron and X-ray averages, produces cards containing these averages and data coverage cards which describe the bit rates and time periods covered by the input data tapes received from Goddard Space Flight Center. The program was written by G. Pitt and G. Sessler in August 1969.

2. X-RAY 24 and BETA 24

These programs produce one inch/hour 5 cycle semi-log plots of counting rates of selected X-ray and electron channels. These plots serve as the primary display of the OGO-5 X-ray and electron data. The plots are generated on a Cal Comp 565 incremented plotter at LBL.

152 29 2.44E01 1.29E01 9.62E01 2.54E01
21E01 1.00E02 2.45E01
E01

152 767 4.26E01 2.05E01 1.32E02 3.37E01
66E01 1.25E02 2.60E01
E01

152 1504 1.03E01 2.17E02 1.06E02 2.11E01
56E00 1.05E02 2.11E01
E01

152 2241 1.20E01 6.65E00 1.06E02 2.23E01
01E00 1.05E02 2.16E01
E01

152 2978 8.62E00 5.55E00 1.32E02 2.21E01
66E00 1.24E02 2.13E01
E01

152 3716 8.59E00 5.93E00 1.12E02 2.32E01
81E00 1.14E02 2.19E01
E01

152 4449 9.11E00 5.86E00 9.99E01 2.63E01
97E00 9.56E01 2.74E01
E01

152 5186 1.50E01 1.02E01 9.45E01 2.11E01
89E01 9.69E01 2.45E01

152 5481 3.36E01 2.11E01 9.26E01 2.41E01
63E01 9.02E01 2.30E01
E01

152 6218 3.36E01 1.17E01 8.15E01 2.66E01
11E00 7.77E01 2.72E01
E01

152 6955 1.63E01 7.81E00 9.27E01 2.70E01
90E00 8.47E01 2.77E01
E01

152 7693 1.35E01 1.71E01 7.34E01 2.30E01
63E01 7.31E01 2.19E01
E01

152 8430 1.09E01 1.09E01 8.64E01 2.24E01
45E01 8.28E01 2.27E01
E01

152 9167 1.97E01 2.41E01 8.38E01 2.48E01
19E01 8.99E01 3.00E01
E01

152 9904 2.41E01 2.45E01 9.84E01 2.37E01
53E01 1.33E02 2.78E01
E01

15210642 9.33E00 8.25E00 9.17E01 2.11E01
03E00 8.33E01 2.15E01

15210937 7.60E00 5.21E00 8.86E01 2.17E01

152 324 3.24E01 1.79E01 1.09E02 2.90
E01

152 472 5.09E01 1.87E01 1.24E02 3.38E01
E01

152 1062 2.60E01 1.15E01 1.20E02 2.33
E01

152 1799 1.17E01 6.39E00 1.04E02 2.18
E01

152 2536 9.74E00 2.23E02 1.12E02 2.17
E01

152 3273 7.96E00 5.01E00 1.17E02 2.18
E01

152 4011 8.41E00 5.63E00 1.13E02 2.27
E01

152 4743 1.80E01 1.28E01 9.98E01 2.74
E01

152 5776 3.54E01 1.93E01 9.40E01 2.48
E01

152 6513 1.80E01 7.38E00 7.67E01 2.39
E01

152 7250 1.50E01 1.06E01 8.07E01 2.55
E01

152 7988 1.09E01 1.13E01 7.32E01 2.18
E01

152 8725 1.19E01 1.54E01 7.72E01 2.23
E01

152 9462 2.63E01 2.93E01 9.10E01 2.60
E01

15210199 1.25E02 1.25E02 8.62E01 2.21
E01

15210789 9.11E00 8.
E01

15211084 6.94E00 4.
E01

152 177 2.19E01 1. REC

152 914 3.65E01 1.

152 1651 9.55E00 5.

152 2369 8.96E00 5.

152 3126 1.11E01 5.

152 3863 8.09E00 4.

152 4556 9.77E00 5.

152 5333 3.10E01 1.

152 5628 3.10E01 1. REC

152 6365 1.89E01 9.

152 7103 1.67E01 8.

152 7840 1.32E01 1.

152 8577 1.15E01 1.

152 9315 1.71E01 2.

15210052 4.84E01 5.

15210789 9.11E00 8.

15211084 6.94E00 4. REC

1. LENGTH 2960

060-5
5/31/68 - 12/31/68

147 Sec Aug Electron

Dupe of D 10917

214 files

2. LENGTH 2960

3. LENGTH 2960

56E00 1.17E02 2.00E01 15211232 7.60E00 4.99E00 2.30E02 2.01
E01 15211379 3.25E00 5.21E00 4.11E02 2.16E01
15211526 9.11E00 5.75E00 2.81E02 2.17E01
15211674 8.03E00 5.53E00 1.86E02 2.09E01 15211821 8.25E00 5.
21E00 1.35E02 2.04E01 15211969 8.25E00 4.56E00 1.14E02 2.12
E01 15212116 7.60E00 4.45E00 9.79E01 2.13E01
15212264 6.73E00 4.34E00 8.93E01 2.06E01
15212411 7.38E00 4.77E00 8.00E01 1.96E01 15212559 7.16E00 4.
56E00 7.55E01 2.10E01 15212706 9.98E00 7.38E00 7.39E01 2.26
E01 15212854 8.25E00 5.53E00 8.34E01 2.15E01
15213001 7.81E00 4.67E00 7.50E01 2.12E01
15213148 7.81E00 5.21E00 7.55E01 2.23E01 15213296 8.68E00 6.
29E00 7.81E01 2.37E01 15213443 1.32E01 9.77E00 7.51E01 2.45
E01 15213591 9.33E00 6.40E00 7.19E01 2.20E01
15213738 8.68E00 6.18E00 7.19E01 2.50E01
15213866 8.68E00 5.64E00 7.29E01 2.39E01 15214033 7.81E00 5.
75E00 6.96E01 2.62E01 15214181 9.11E00 6.51E00 7.22E01 2.73
E01 15214328 8.46E00 6.40E00 7.08E01 2.83E01
15214476 1.30E01 1.04E01 7.06E01 2.29E01
15214623 1.09E01 8.28E00 7.15E01 2.31E01 15214770 9.33E00 6.
94E00 7.06E01 2.88E01 15214918 1.26E01 1.13E01 6.83E01 2.65
E01 15215065 8.68E00 7.38E00 6.86E01 2.39E01
15215213 7.60E00 4.99E00 7.22E01 2.19E01
15215360 7.16E00 4.67E00 7.13E01 2.09E01 15215508 7.60E00 4.
99E00 7.09E01 2.29E01 15215655 7.60E00 5.53E00 7.00E01 2.26
E01 15215803 7.81E00 6.08E00 7.85E01 2.35E01
15215950 7.81E00 5.86E00 7.70E01 2.35E01
15216098 7.60E00 5.75E00 7.36E01 2.25E01 15216245 7.38E00 5.
97E00 7.16E01 2.29E01
15216393 7.38E00 5.75E00 7.38E01 2.18E01 15216540 7.16E00 5. REC 4, LENGTH 2960
E01 15217130 7.60E00 5.43E00 1.14E02 2.27
E01 15217425 8.25E00 5.97E00 8.90E01 2.20E01
15217572 8.90E00 5.64E00 3.50E01 2.22E01
15217720 9.11E00 7.16E00 8.53E01 2.23E01 15217867 9.33E00 7.
60E00 8.65E01 2.16E01 15218015 1.28E01 1.06E01 8.41E01 2.35
E01 15218162 1.41E01 1.13E01 8.05E01 2.29E01
15218309 2.63E01 2.45E01 8.30E01 2.79E01
15218457 3.10E01 2.93E01 8.15E01 2.49E01 15218604 2.54E01 2.
28E01 8.35E01 2.53E01 15218752 1.97E01 1.80E01 8.14E01 2.33
E01 15218899 1.50E01 1.37E01 8.16E01 2.24E01
15219047 1.32E01 1.22E01 7.87E01 2.29E01
15219194 1.41E01 1.35E01 7.87E01 2.56E01 15219342 2.67E01 2.
76E01 8.18E01 2.86E01 15219489 1.71E01 1.58E01 7.71E01 2.48
E01 15219637 1.54E01 1.35E01 7.49E01 2.49E01
15219784 1.15E01 1.24E01 7.62E01 2.27E01
15219931 1.32E01 1.58E01 7.75E01 2.22E01 15220079 1.15E01 1.
28E01 7.86E01 2.12E01 15220226 9.77E00 1.02E01 8.20E01 2.34
E01 15220374 1.22E01 1.63E01 7.90E01 2.13E01
15220521 9.98E00 1.24E01 7.80E01 2.13E01
15220964 1.67E01 2.02E01 8.43E01 2.55E01 15221956 3.10E01 4.
23E01 8.09E01 2.77E01 15222143 6.75E01 7.79E01 1.50E02 2.68
E01 15222291 2.11E01 2.71E01 1.50E02 2.80E01
15222438 2.02E01 2.76E01 1.27E02 2.50E01
15222586 9.77E00 9.11E00 1.18E02 2.56E01 15222733 5.36E01 6.
92E01 1.03E02 2.32E01 15222881 9.55E00 8.46E00 8.87E01 2.13
E01 15223028 1.13E01 1.13E01 9.92E01 2.30E01
15223175 3.28E01 3.97E01 1.10E02 2.66E01
15224318 6.94E01 5.34E01 1.12E02 2.48E01 15224465 8.62E01 4.
99E01 1.19E02 2.38E01
15224612 1.62E02 8.27E01 1.27E02 2.44E01 15224760 7.79E01 5. REC 5, LENGTH 2960
15E01 9.59E01 2.38E01 15224907 2.24E01 2.09E01 8.92E01 2.41

EE01 15225055 6.84EE01 4.44EE01 1.08EE02 2.59EE01
15225202 1.03EE02 5.54EE01 1.17EE02 2.37EE01
15225350 5.15EE01 3.03EE01 9.80EE01 2.14EE01 15225497 3.68EE01 2.
07EE01 8.98EE01 2.23EE01 15225645 3.23EE01 1.87EE01 9.35EE01 2.29
EE01 15225792 2.90EE01 1.76EE01 1.05EE02 2.30EE01
15225940 2.57EE01 1.43EE01 1.01EE02 2.22EE01
15226087 3.97EE01 1.89EE01 9.73EE01 2.24EE01 15226234 1.88EE01 1.
20EE01 8.46EE01 2.20EE01 15226382 2.52EE01 1.64EE01 8.69EE01 2.11
EE01 15226529 1.97EE01 1.25EE01 8.28EE01 2.10EE01
15226677 2.51EE01 1.30EE01 8.19EE01 2.06EE01
15226824 1.64EE01 8.95EE00 8.08EE01 2.18EE01 15226972 1.03EE01 5.
93EE00 8.49EE01 2.19EE01 15227119 1.25EE01 7.24EE00 9.31EE01 2.12
EE01 15227267 9.79EE00 6.05EE00 8.55EE01 2.08EE01
15227414 9.96EE00 5.94EE00 7.99EE01 2.17EE01
15227562 1.01EE01 6.51EE00 7.26EE01 2.07EE01 15227709 8.76EE00 5.
07EE00 7.04EE01 2.11EE01 15227856 7.62EE00 4.83EE00 6.70EE01 2.19
EE01 15228004 7.27EE00 5.05EE00 6.77EE01 2.17EE01
15228151 7.51EE00 4.72EE00 6.62EE01 2.13EE01
15228299 7.22EE00 4.53EE00 6.80EE01 2.01EE01 15228446 7.84EE00 5.
11EE00 6.89EE01 2.03EE01 15228594 7.27EE00 4.86EE00 7.57EE01 2.09
EE01 15228741 7.49EE00 4.46EE00 7.85EE01 2.05EE01
15228889 1.29EE01 7.68EE00 7.99EE01 2.13EE01
15229036 7.81EE00 4.96EE00 8.26EE01 2.14EE01 15229184 7.32EE00 4.
54EE00 7.57EE01 2.16EE01 15229331 7.27EE00 4.27EE00 7.69EE01 2.16
EE01 15229478 7.32EE00 4.42EE00 7.35EE01 2.09EE01
15229626 7.66EE00 4.67EE00 7.63EE01 2.16EE01
15229773 6.94EE00 4.33EE00 8.83EE01 2.13EE01 15229921 7.08EE00 4.
54EE00 8.86EE01 2.12EE01
15230068 6.56EE00 4.52EE00 7.80EE01 2.10EE01 15230216 6.81EE00 4.
06EE00 7.97EE01 2.06EE01 15230363 7.43EE00 4.67EE00 7.60EE01 2.16
EE01 15230511 7.11EE00 4.75EE00 7.80EE01 2.09EE01
15230658 6.70EE00 4.15EE00 7.89EE01 1.99EE01
15230806 7.51EE00 5.66EE00 7.56EE01 2.17EE01 15231027 7.48EE00 5.
87EE00 7.60EE01 2.17EE01 15231174 7.57EE00 4.56EE00 8.44EE01 2.13
EE01 15231322 7.65EE00 5.15EE00 9.00EE01 2.29EE01
15231469 8.94EE00 5.25EE00 1.14EE02 2.14EE01
15231617 7.92EE00 5.21EE00 1.23EE02 2.23EE01 15231764 7.98EE00 5.
36EE00 9.78EE01 2.10EE01 15231911 8.17EE00 5.60EE00 8.50EE01 2.18
EE01 15232059 7.76EE00 5.17EE00 8.09EE01 2.17EE01
15232206 7.13EE00 4.30EE00 9.44EE01 2.08EE01
15232354 1.17EE01 8.03EE00 8.88EE01 2.24EE01 15232501 1.63EE01 1.
16EE01 8.15EE01 2.30EE01 15232649 1.69EE01 1.17EE01 1.24EE02 2.28
EE01 15232796 2.00EE01 1.25EE01 1.38EE02 2.24EE01
15232944 1.88EE01 1.17EE01 1.08EE02 2.18EE01
15233091 1.61EE01 1.11EE01 9.84EE01 2.29EE01 15233239 4.64EE01 3.
24EE01 9.57EE01 2.55EE01 15233386 3.36EE01 2.17EE01 8.58EE01 2.38
EE01 15233533 3.96EE01 2.62EE01 1.07EE02 2.44EE01
15233681 5.58EE01 3.74EE01 9.36EE01 2.55EE01
15233828 7.96EE01 4.71EE01 1.39EE02 2.48EE01 15233976 5.70EE01 3.
07EE01 3.71EE02 2.48EE01 15234123 3.59EE01 1.82EE01 2.82EE02 2.24
EE01 15234271 2.23EE01 1.20EE01 3.63EE02 2.28EE01
15234418 1.86EE01 1.00EE01 3.52EE02 2.14EE01
15234566 1.93EE01 1.13EE01 2.10EE02 2.16EE01 15234713 1.80EE01 9.
93EE00 1.37EE02 2.17EE01 15234861 4.17EE01 2.30EE01 1.05EE02 2.43
EE01 15235008 4.23EE01 2.18EE01 9.20EE01 2.18EE01
15235155 4.13EE01 2.33EE01 8.75EE01 2.33EE01
15235303 5.70EE01 3.04EE01 9.05EE01 2.32EE01 15235450 4.11EE01 2.
37EE01 8.56EE01 2.30EE01

REC 6, LENGTH 2960

15235598 4.75EE01 2.55EE01 8.46EE01 2.33EE01 15235745 4.34EE01 2.
35EE01 8.94EE01 2.25EE01 15235893 6.94EE01 3.69EE01 9.54EE01 2.39
EE01 15236040 5.65EE01 3.00EE01 9.27EE01 2.35EE01

REC 7, LENGTH 2960

EE00 3.58E00 3.31E00 1.57E00 1.97E0127778703 1.35E02 1.62E01 1.13E01 5.70E00 3.91E00 3.26E00
00 2.06E00 1.76E0127778740 1.30E02 1.90E01 1.04E01 6.02E00 3.04E00 3.80E00 9.77E-01 1.73E01
27778777 1.30E02 1.88E01 1.08E01 5.32E00 3.80E00 2.77E00 1.03E00 1.88E0127778814 1.28E02 1.
81E01 9.49E00 4.94E00 3.80E00 3.09E00 1.63E00 1.67E0127778851 1.21E02 1.58E01 1.06E01 5.15
E00 3.42E00 3.04E00 1.84E00 1.86E0127778888 1.15E02 1.76E01 9.71E00 5.81E00 2.98E00 1.79E0
00 1.57E00 1.88E0127778925 1.08E02 1.80E01 1.01E01 6.13E00 3.58E00 2.82E00 8.68E-01 1.59E01
27778961 1.05E02 1.66E01 1.09E01 5.15E00 3.36E00 2.44E00 1.79E00 1.67E0127778998 1.06E02 1.
75E01 9.49E00 5.32E00 2.71E00 2.77E00 1.74E00 1.56E0127779035 1.03E02 1.86E01 9.87E00 5.86
E00 3.63E00 2.71E00 1.25E00 1.68E0127779072 9.81E01 1.77E01 1.12E01 5.10E00 2.82E00 2.39E0
00 9.77E-01 1.82E0127779109 9.54E01 1.79E01 9.11E00 4.94E00 3.15E00 2.50E00 1.30E00 1.69E01
27779146 9.29E01 1.75E01 1.07E01 4.72E00 3.69E00 2.77E00 1.79E00 1.91E0127779183 9.15E01 1.
68E01 9.28E00 5.43E00 2.98E00 2.06E00 1.30E00 1.71E0127779219 9.42E01 1.97E01 1.02E01 6.84
E00 3.26E00 3.42E00 1.46E00 1.80E0127779256 9.43E01 1.81E01 9.82E00 5.59E00 3.04E00 3.04E0
00 1.30E00 1.74E0127779293 9.70E01 1.70E01 9.60E00 5.21E00 3.53E00 2.77E00 1.63E00 1.88E01
27779330 9.00E01 1.79E01 1.07E01 5.32E00 3.58E00 2.93E00 1.25E00 1.83E0127779367 8.57E01 1.
76E01 9.87E00 5.64E00 2.55E00 2.66E00 2.06E00 1.78E0127779404 9.01E01 1.56E01 9.22E00 5.53
E00 3.47E00 2.77E00 2.28E00 1.85E0127779441 8.57E01 1.76E01 1.02E01 5.32E00 3.42E00 3.53E0
00 1.57E00 1.92E0127779478 8.65E01 1.83E01 9.93E00 5.64E00 3.47E00 3.04E00 1.79E00 2.06E01
27779514 8.47E01 1.60E01 9.93E00 5.32E00 3.04E00 2.77E00 1.52E00 2.21E0127779551 7.92E01 1.
77E01 9.33E00 6.62E00 3.42E00 2.71E00 2.12E00 2.18E0127779588 7.98E01 1.84E01 1.05E01 6.18
E00 3.85E00 3.31E00 1.52E00 1.95E0127779625 7.64E01 1.70E01 9.01E00 6.24E00 3.47E00 3.47E0
00 2.06E00 1.87E0127779662 7.88E01 1.73E01 9.01E00 5.43E00 3.96E00 2.93E00 1.30E00 2.06E01
27779699 7.64E01 1.60E01 9.44E00 6.29E00 3.96E00 2.66E00 1.57E00 1.83E0127779736 7.26E01 1.
74E01 9.06E00 5.37E00 3.20E00 2.50E00 1.46E00 1.75E0127779772 8.53E01 1.63E01 8.90E00 6.13
E00 3.20E00 2.44E00 1.14E00 1.94E0127779809 9.96E01 1.74E01 8.79E00 5.05E00 3.53E00 2.60E0
00 1.41E00 1.63E0127779846 1.20E02 1.81E01 7.70E00 5.59E00 2.60E00 2.98E00 1.57E00 1.60E01
27779883 1.18E02 1.76E01 1.04E01 5.53E00 3.15E00 2.71E00 1.19E00 1.69E0127779920 1.22E02 1.
70E01 9.39E00 5.37E00 3.20E00 3.58E00 1.90E00 1.70E01

27779957 1.15E02 1.77E01 8.90E00 5.26E00 3.36E00 2.98E00 1.41E00 1.75E0127779954 1.11E02 1.
78E01 9.01E00 5.53E00 2.88E00 3.04E00 1.63E00 1.71E0127780030 1.04E02 1.64E01 1.05E01 5.64
E00 3.47E00 2.71E00 1.19E00 1.83E0127780067 1.01E02 1.55E01 8.68E00 4.88E00 3.96E00 2.71E0
00 2.01E00 1.83E0127780104 1.05E02 1.78E01 1.13E01 4.56E00 3.42E00 2.66E00 7.60E-01 1.79E01
27780141 1.02E02 1.78E01 9.39E00 5.97E00 3.09E00 2.98E00 1.63E00 1.94E0127780178 9.98E01 1.
84E01 8.84E00 4.67E00 3.36E00 2.77E00 1.03E00 1.82E0127780215 9.60E01 1.76E01 8.41E00 5.67
E00 3.36E00 2.50E00 1.19E00 1.90E0127780252 9.72E01 1.69E01 9.55E00 5.97E00 3.26E00 2.55E0
00 1.68E00 1.90E0127780289 9.42E01 1.74E01 8.25E00 5.37E00 3.31E00 2.98E00 1.03E00 2.12E01
27780325 8.91E01 1.69E01 1.06E01 5.48E00 3.31E00 2.88E00 1.46E00 2.03E0127780362 9.11E01 1.
77E01 1.03E01 5.10E00 4.23E00 2.55E00 2.22E00 2.21E0127780399 8.43E01 1.62E01 1.04E01 5.37
E00 3.63E00 3.04E00 2.50E00 2.34E0127780436 8.04E01 1.48E01 1.16E01 5.32E00 3.91E00 3.42E0
00 1.68E00 2.21E0127780473 7.58E01 1.75E01 1.03E01 5.85E00 4.12E00 2.88E00 2.01E00 2.37E01
27780510 7.58E01 1.68E01 9.39E00 5.91E00 3.80E00 2.93E00 1.79E00 2.30E0127780547 7.42E01 1.
73E01 1.04E01 5.48E00 3.58E00 3.91E00 1.95E00 2.30E0127780583 7.62E01 1.71E01 9.49E00 6.18
E00 3.91E00 3.31E00 1.41E00 2.29E0127780620 7.45E01 1.93E01 8.63E00 6.56E00 4.18E00 3.09E0
00 2.33E00 2.17E0127780657 7.62E01 1.72E01 1.06E01 5.59E00 4.29E00 3.42E00 1.63E00 1.88E01
27780694 8.79E01 1.57E01 1.03E01 6.18E00 3.26E00 2.88E00 1.74E00 2.01E0127780731 8.09E01 1.
62E01 9.77E00 4.67E00 2.71E00 3.47E00 1.68E00 1.90E0127780768 7.90E01 1.62E01 1.11E01 6.56
E00 4.39E00 2.71E00 1.36E00 2.26E0127780805 7.24E01 1.58E01 9.66E00 6.02E00 3.15E00 3.09E0
00 1.90E00 2.06E0127780841 7.14E01 1.75E01 1.13E01 6.84E00 3.80E00 3.20E00 2.06E00 1.99E01
27780878 6.86E01 1.70E01 9.60E00 6.29E00 3.26E00 2.71E00 1.95E00 2.02E0127780915 6.64E01 1.
60E01 9.93E00 5.86E00 3.04E00 3.09E00 2.22E00 2.00E0127780952 6.76E01 1.62E01 1.02E01 5.64
E00 3.53E00 2.98E00 1.14E00 2.15E0127780989 6.85E01 1.63E01 9.49E00 5.75E00 4.07E00 2.39E0
00 1.84E00 1.89E0127781026 6.90E01 1.80E01 9.11E00 5.15E00 3.47E00 2.44E00 1.41E00 2.11E01
27781063 6.35E01 1.61E01 9.44E00 5.43E00 3.42E00 3.09E00 1.74E00 2.10E0127781100 6.52E01 1.
84E01 8.68E00 5.70E00 3.15E00 3.20E00 1.25E00 1.97E0127781136 6.68E01 1.69E01 9.82E00 5.75
E00 3.85E00 3.42E00 1.79E00 2.14E0127781173 6.89E01 1.63E01 9.49E00 5.32E00 3.58E00 3.47E0
00 2.17E00 1.95E0127781210 7.41E01 1.92E01 9.22E00 6.35E00 3.53E00 3.09E00 1.95E00 1.92E01
27781247 7.37E01 1.65E01 1.06E01 6.89E00 4.18E00 2.66E00 1.95E00 2.09E0127781284 7.73E01 1.
77E01 9.77E00 5.21E00 3.47E00 4.01E00 1.90E00 2.28E01

REC 6, LENGTH 2960

27781321 7.52E01 1.81E01 1.11E01 6.29E00 4.12E00 2.88E00 1.84E00 2.02E0127781358 8.03E01 1.
92E01 1.03E01 6.56E00 3.74E00 3.20E00 2.22E00 1.97E0127781394 7.68E01 1.59E01 9.87E00 5.32
E00 3.69E00 3.91E00 2.17E00 2.29E0127781431 7.71E01 1.94E01 1.11E01 6.24E00 3.80E00 3.36E0

REC 7, LENGTH 2960

00 1.74E00 2.15E01 27781468 7.73E01 2.04E01 1.12E01 6.35E00 3.95E00 3.42E00 1.68E00 2.22E01
27781505 7.90E01 2.09E01 1.21E01 5.43E00 3.69E00 3.53E00 2.55E00 2.19E01 27781542 8.03E01 1.
88E01 1.39E01 5.26E00 3.74E00 3.31E00 2.01E00 2.50E01 27781579 8.57E01 2.14E01 1.20E01 6.78
E00 3.35E00 2.71E00 2.71E00 2.69E01 27781616 9.04E01 2.01E01 1.22E01 7.16E00 4.39E00 4.34E0
00 2.88E00 3.23E01 27781652 8.14E01 2.16E01 1.36E01 6.51E00 4.29E00 4.12E00 2.22E00 3.26E01
27781689 8.72E01 2.11E01 1.24E01 7.49E00 4.07E00 4.07E00 2.60E00 3.17E01 27781726 8.36E01 2.
18E01 1.21E01 7.00E00 4.61E00 4.77E00 2.55E00 3.27E01 27781763 8.83E01 2.20E01 1.14E01 7.60
E00 3.85E00 3.80E00 3.26E00 3.23E01 27781800 8.79E01 2.14E01 1.27E01 5.97E00 4.07E00 2.82E0
00 2.39E00 2.64E01 27781837 8.44E01 1.97E01 1.16E01 6.13E00 3.36E00 3.80E00 1.63E00 2.39E01
27781874 8.42E01 2.03E01 9.93E00 6.46E00 3.58E00 2.71E00 2.01E00 2.12E01 27781911 7.90E01 2.
09E01 1.19E01 6.35E00 4.07E00 2.93E00 1.52E00 2.41E01 27781947 7.75E01 1.95E01 1.16E01 5.64
E00 3.80E00 3.31E00 2.12E00 2.05E01 27781984 8.06E01 1.99E01 9.64E00 4.69E00 3.30E00 2.86E0
00 1.91E00 2.53E01 27782021 7.77E01 2.00E01 1.01E01 6.51E00 3.69E00 3.63E00 1.57E00 2.47E01
27782058 6.75E01 1.87E01 1.01E01 5.26E00 4.23E00 3.20E00 1.57E00 2.05E01 27782095 6.63E01 1.
73E01 1.09E01 6.29E00 3.69E00 2.66E00 2.12E00 2.09E01 27782132 6.66E01 1.77E01 9.17E00 6.24
E00 3.63E00 2.66E00 1.19E00 1.75E01 27782169 6.69E01 1.70E01 9.77E00 5.86E00 3.91E00 2.71E0
00 2.06E00 1.84E01 27782205 5.83E01 1.73E01 9.55E00 5.70E00 3.58E00 3.09E00 1.46E00 1.81E01
27782242 5.97E01 1.82E01 1.08E01 5.70E00 3.58E00 3.20E00 1.63E00 1.74E01 27782279 5.96E01 1.
73E01 9.87E00 4.61E00 3.15E00 3.15E00 1.41E00 1.69E01 27782316 5.96E01 1.87E01 8.90E00 5.26
E00 3.26E00 3.04E00 1.52E00 1.83E01 27782353 6.49E01 1.67E01 8.90E00 5.81E00 2.88E00 2.50E0
00 1.25E00 1.70E01 27782390 6.12E01 1.67E01 8.79E00 4.45E00 3.20E00 2.77E00 1.63E00 1.66E01
27782427 6.11E01 1.62E01 8.84E00 4.61E00 3.74E00 2.55E00 1.46E00 1.62E01 27782463 6.52E01 1.
50E01 9.98E00 4.88E00 3.53E00 2.93E00 1.57E00 1.65E01 27782500 6.25E01 1.63E01 9.33E00 6.13
E00 3.53E00 3.04E00 1.57E00 1.67E01 27782537 6.24E01 1.51E01 1.00E01 5.15E00 3.31E00 1.79E0
00 1.25E00 1.88E01 27782574 6.23E01 2.08E01 1.01E01 6.08E00 3.26E00 2.98E00 1.14E00 1.92E01
27782611 6.32E01 1.98E01 9.01E00 5.53E00 3.63E00 2.39E00 1.63E00 1.73E01 27782648 6.07E01 1.
88E01 9.11E00 6.35E00 2.66E00 3.26E00 1.30E00 1.79E01

27782685 6.14E01 1.67E01 9.39E00 5.15E00 3.96E00 3.09E00 1.46E00 1.83E01 27782722 6.16E01 1.
60E01 9.98E00 6.02E00 3.80E00 3.09E00 1.63E00 1.90E01 27782758 5.86E01 1.64E01 9.17E00 5.59
E00 3.15E00 2.66E00 2.06E00 1.82E01 27782795 7.01E01 2.06E01 1.22E01 7.32E00 3.96E00 3.09E0
00 2.22E00 1.99E01 27782832 7.60E01 1.93E01 1.22E01 6.56E00 4.83E00 3.58E00 2.50E00 2.08E01
27782869 7.53E01 1.93E01 1.23E01 6.08E00 3.80E00 2.82E00 1.30E00 2.06E01 27782906 6.98E01 1.
84E01 1.13E01 6.18E00 3.69E00 3.69E00 1.82E01 27782943 6.58E01 2.06E01 9.39E00 5.64
E00 2.71E00 3.04E00 1.41E00 1.90E01 27782980 6.43E01 1.82E01 9.60E00 6.02E00 2.93E00 2.39E0
00 1.25E00 1.73E01 27783016 6.15E01 1.75E01 1.05E01 4.83E00 4.29E00 2.22E00 1.41E00 1.65E01
27783053 5.58E01 1.57E01 1.03E01 5.37E00 3.69E00 3.04E00 1.52E00 1.55E01 27783090 5.98E01 1.
80E01 9.77E00 5.86E00 2.88E00 2.55E00 1.19E00 1.70E01 27783127 5.90E01 1.81E01 8.46E00 4.99
E00 4.18E00 2.60E00 1.36E00 1.61E01 27783164 6.35E01 1.83E01 8.63E00 5.10E00 2.88E00 2.06E0
00 1.52E00 1.75E01 27783201 6.26E01 1.75E01 1.06E01 5.48E00 2.93E00 2.66E00 1.25E00 1.63E01
27783238 7.34E01 1.68E01 9.49E00 5.53E00 4.01E00 2.71E00 1.30E00 1.70E01 27783275 7.81E01 1.
70E01 1.01E01 6.35E00 3.63E00 3.04E00 1.95E00 1.80E01 27783311 8.02E01 1.76E01 1.00E01 7.16
E00 4.07E00 2.66E00 1.09E00 1.78E01 27783348 8.42E01 1.70E01 1.04E01 4.83E00 3.96E00 2.88E0
00 1.90E00 1.81E01 27783385 7.96E01 1.80E01 9.77E00 5.43E00 3.36E00 3.26E00 1.41E00 1.74E01
27783422 7.80E01 1.82E01 1.07E01 5.21E00 3.91E00 2.60E00 1.90E00 1.63E01 27783459 7.87E01 1.
73E01 9.17E00 5.64E00 3.85E00 2.82E00 1.46E00 1.75E01 27783496 8.22E01 1.65E01 9.82E00 6.08
E00 3.47E00 3.77E00 1.25E00 1.70E01 27783533 8.91E01 1.97E01 1.20E01 7.05E00 4.29E00 3.26E0
00 1.63E00 1.99E01 27783569 1.94E02 1.97E01 1.05E01 7.65E00 4.72E00 3.36E00 1.68E00 2.08E01
27783606 3.94E02 2.24E01 1.49E01 8.73E00 5.26E00 4.29E00 2.66E00 2.07E01 27783643 2.35E02 2.
24E01 1.31E01 7.05E00 4.72E00 3.96E00 2.93E00 2.28E01 27783680 2.01E02 2.50E01 1.49E01 8.03
E00 5.75E00 5.75E00 3.47E00 2.55E01 27783717 1.81E02 2.47E01 1.44E01 8.57E00 4.94E00 4.61E0
00 3.20E00 2.84E01 27783754 1.91E02 2.25E01 1.38E01 7.81E00 4.99E00 5.21E00 1.95E00 2.43E01
27783791 1.33E02 2.18E01 1.28E01 7.00E00 4.34E00 4.39E00 3.09E00 2.84E01 27783827 1.29E02 2.
62E01 1.66E01 8.14E00 5.91E00 6.94E00 4.23E00 3.43E01 27783864 1.13E02 2.45E01 1.50E01 9.01
E00 5.97E00 5.26E00 4.12E00 3.26E01 27783901 1.03E02 2.29E01 1.26E01 7.32E00 4.61E00 4.61E0
00 2.44E00 2.28E01 27783938 1.02E02 2.28E01 1.33E01 7.49E00 5.15E00 4.07E00 2.66E00 2.53E01
27783975 1.03E02 2.79E01 1.81E01 6.84E00 5.05E00 4.56E00 2.50E00 2.83E01 27784012 1.13E02 3.
29E01 1.94E01 1.05E01 6.46E00 6.62E00 3.96E00 3.33E01

REC

8, LENGTH 2960

27784049 1.07E02 2.95E01 1.82E01 1.10E01 5.53E00 5.81E00 4.01E00 3.08E01 27784086 1.10E02 2.
82E01 1.52E01 9.49E00 5.81E00 5.26E00 3.96E00 3.23E01 27784122 1.13E02 3.05E01 1.91E01 1.05
E01 6.46E00 5.21E00 4.12E00 3.26E01 27784159 1.19E02 3.21E01 1.89E01 9.87E00 5.53E00 5.21E0
00 2.88E00 3.20E01 27784196 1.25E02 3.26E01 1.96E01 9.44E00 7.05E00 5.59E00 3.69E00 3.35E01

REC

9, LENGTH 2960

27784233 1.36E02 3.66E01 1.97E01 1.18E01 6.35E00 5.53E00 4.50E00 3.89E01 27784270 1.02E02 2.
84E01 1.73E01 8.79E00 4.67E00 4.23E00 3.80E00 3.21E01 27784307 1.25E02 3.15E01 1.94E01 1.04
E01 5.86E00 5.43E00 4.01E00 3.59E01 27784344 1.17E02 3.31E01 1.97E01 9.60E00 6.13E00 5.48E0
00 4.12E00 3.77E01 27784380 1.56E02 6.46E01 3.59E01 1.84E01 1.04E01 1.07E01 7.00E00 5.06E01
27784417 1.22E02 3.57E01 1.71E01 9.11E00 6.08E00 5.75E00 4.23E00 3.03E01 27784454 1.10E02 2.
82E01 1.64E01 7.92E00 5.59E00 4.07E00 3.36E00 3.18E01 27784491 1.15E02 3.26E01 1.68E01 8.46
E00 5.97E00 4.12E00 2.88E00 3.14E01 27784528 1.14E02 2.88E01 1.83E01 8.73E00 5.70E00 4.99E0
00 2.82E00 3.13E01 27784565 9.31E01 2.57E01 1.24E01 6.73E00 4.61E00 3.63E00 2.66E00 3.22E01
27784602 1.04E02 2.81E01 1.47E01 8.46E00 5.97E00 5.53E00 3.26E00 3.47E01 27784638 1.25E02 3.
63E01 1.93E01 1.20E01 6.08E00 5.53E00 3.42E00 3.84E01 27784675 1.17E02 3.33E01 1.88E01 9.55
E00 6.24E00 4.56E00 2.98E00 3.31E01 27784712 1.24E02 3.27E01 1.80E01 9.60E00 4.83E00 5.05E0
00 2.98E00 2.73E01 27784749 1.35E02 3.94E01 1.89E01 1.00E01 5.53E00 3.80E00 3.04E00 3.33E01
27784786 1.47E02 4.18E01 1.93E01 1.03E01 6.46E00 5.43E00 3.69E00 3.37E01 27784823 1.55E02 4.
34E01 2.06E01 1.06E01 5.53E00 7.32E00 4.01E00 3.95E01 27784860 1.22E02 3.06E01 1.64E01 7.92
E00 5.05E00 3.96E00 2.88E00 3.42E01 27784897 8.40E01 2.30E01 1.30E01 6.51E00 4.01E00 3.63E0
00 3.04E00 2.97E01 27784933 8.21E01 2.24E01 1.11E01 6.67E00 4.07E00 4.18E00 2.22E00 3.07E01
27784970 1.01E02 2.46E01 1.55E01 7.87E00 5.26E00 4.45E00 3.36E00 3.95E01 27785007 9.87E01 2.
61E01 1.50E01 8.30E00 4.23E00 5.26E00 2.98E00 3.82E01 27785044 9.30E01 2.39E01 1.14E01 6.46
E00 5.48E00 4.88E00 3.42E00 3.39E01 27785081 8.56E01 2.19E01 1.24E01 7.49E00 5.15E00 4.99E0
00 3.04E00 3.25E01 27785118 8.79E01 2.25E01 1.20E01 8.08E00 5.21E00 4.45E00 3.36E00 3.06E01
27785155 8.18E01 2.19E01 1.18E01 5.91E00 4.99E00 4.45E00 3.20E00 2.75E01 27785191 1.01E02 2.
12E01 1.13E01 8.86E00 4.12E00 3.42E00 1.74E00 2.35E01 27785228 9.99E01 2.22E01 1.12E01 6.84
E00 4.01E00 4.29E00 2.06E00 2.64E01 27785265 1.23E02 3.22E01 1.55E01 9.77E00 5.86E00 4.50E0
00 3.20E00 3.23E01 27785302 9.57E01 2.60E01 1.32E01 7.70E00 4.99E00 4.01E00 2.66E00 2.46E01
27785339 1.10E02 3.02E01 1.60E01 7.32E00 5.70E00 4.83E00 3.09E00 3.14E01 27785376 1.00E02 2.
67E01 1.41E01 8.25E00 5.48E00 5.26E00 3.31E00 3.23E01

27785413 9.61E01 2.47E01 1.42E01 8.46E00 5.10E00 4.77E00 3.47E00 3.26E01 27785449 8.04E01 2.
20E01 1.15E01 6.24E00 3.42E00 3.09E00 2.22E00 2.48E01 27785486 9.04E01 2.46E01 1.54E01 8.14
E00 4.88E00 5.05E00 3.85E00 4.05E01 27785523 1.12E02 3.22E01 2.09E01 1.31E01 7.32E00 8.90E0
00 6.78E00 5.44E01 27785560 1.09E02 3.01E01 1.75E01 1.13E01 6.24E00 5.10E00 4.99E00 4.46E01
27785597 9.30E01 2.91E01 1.60E01 1.17E01 6.94E00 6.94E00 3.96E00 4.96E01 27785634 9.14E01 2.
65E01 1.45E01 1.07E01 5.91E00 4.94E00 4.07E00 3.58E01 27785671 8.42E01 2.60E01 1.49E01 9.01
E00 5.26E00 5.21E00 3.31E00 2.78E01 27785708 8.53E01 2.30E01 1.37E01 7.16E00 4.01E00 5.48E0
00 4.12E00 2.76E01 27785744 9.36E01 2.46E01 1.54E01 7.22E00 5.05E00 4.50E00 3.42E00 3.09E01
27785781 1.25E02 3.01E01 1.70E01 9.71E00 6.08E00 7.05E00 3.58E00 3.09E01 27785818 1.33E02 3.
43E01 2.00E01 1.34E01 9.49E00 9.39E00 6.46E00 4.48E01 27785855 1.11E02 2.75E01 1.84E01 1.09
E01 6.51E00 7.87E00 4.29E00 3.66E01 27785892 1.23E02 2.96E01 1.78E01 1.11E01 7.27E00 6.94E0
00 4.94E00 3.84E01 27785929 8.20E01 2.20E01 1.23E01 7.11E00 4.45E00 4.01E00 2.28E00 2.54E01
27785966 6.94E01 1.89E01 1.12E01 5.75E00 3.96E00 2.66E00 1.79E00 2.06E01 27786002 7.11E01 1.
96E01 1.03E01 6.62E00 3.85E00 3.36E00 2.50E00 2.03E01 27786039 9.96E01 3.02E01 1.71E01 9.55
E00 5.32E00 5.97E00 3.63E00 3.24E01 27786076 8.90E01 2.90E01 1.5

REC 10, LENGTH 2960