



#310

APOLLO 17
DEMULPLEXED DATA
72-096C-07B

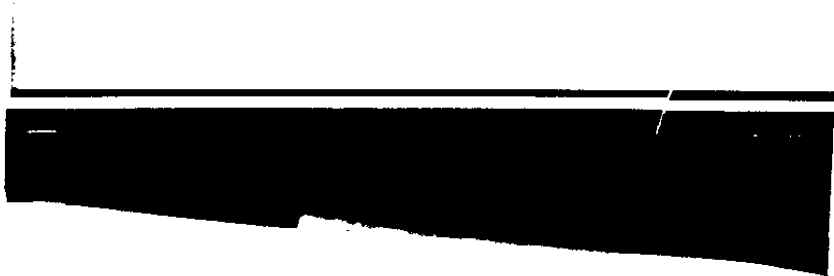


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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

APOLLO 17

LM/ALSEP DEMULTIPLEXED DATA ON TAPE

72-096C-07B

PSPG-00559

THIS DATA SET HAS BEEN RESTORED. THERE WAS ORIGINALLY ONE 7-TRACK, 556 BPI TAPE 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 TAPE WAS CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORESPONDING D NUMBER IS AS FOLLOWS:

DR#	DS#	D#	FILES
DR005507	DS005507	D014011	2

REQ. AGENT
CMT

RAND NO.
RC0022

ACQ. AGENT
RWV

APOLLO 17

DEMULTIPLEXED DATA

72-096C-07B

This data set consists of 1 tape written in ~~BCD~~^{ASC} in even parity.
It has 556 bits per inch (BPI) and is 7 track. This tape was created
on a 360 computer and has 2 files.

The first file contains straightened Science and Navigation data.
The second file contains only unstraightened Science data, the formats
for both files are on the following pages.

<u>D#</u>	<u>C#</u>
D-14011	C-15845

FILE 1

RECORD FORMAT CONTENTS

1 27(14A6), 8A6 TITLE: 27 card images plus padding.

2 38616 MODE: (MAR) 1.

M = 1 Data acquisition mode
M = 2 Sync acquisition mode
A = 1 X antenna, 32 or 16 MHz
A = 2 Y antenna, 8 or 4 MHz
A = 3 Z antenna, 2 or 1 MHz
R = 0 No receiver resync
R = 1 Receiver resync

3	386F6.1	TEMP	Temperature, degrees F.
4	386F6.1	TXOFF	X antenna, 32, 8, or 2 MHz
5	"	"	Y antenna, " " " MHz
6	"	"	Z antenna, " " " MHz
7	"	"	X antenna, 16, 4, or 1 MHz
8	"	"	Y antenna, " " " MHz
9	"	"	Z antenna, " " " MHz

Determined by "A" digit of mode word

10	"	CAL	Front-end noise, 32, 8 or 2 MHz
11	"	"	Diode + 20 DB, " " "
12	"	"	Diode, " " "
13	"	"	Front-end noise, 16, 4, or 1 MHz

14	386F6.1	CAL	Diode + 20 DB, 16, 4, or 1 MHz
15	"	"	Diode, " " "
16	"	RANGE ₁	Range array for 1 MHz data, meters
17	"	1MHz Endfire	X antenna power in dBm
18	"	"	Y " "
19	"	"	Z " "
20	"	Broadside	X " "
21	"	"	Y " "
22	"	"	Z " "
23	"	RANGE ₂	Range array for 2 MHz data
24	"	2 MHz Endfire	X
25	"	"	Y
26	"	"	Z
27	"	Broadside	X
28	"	"	Y
29	"	"	Z
30	2(386F6.1/)	RANGE ₄	
31			
32	"	4 MHz Endfire	X
33			

2

2(386F6.1/) 4 MHz Endfire Y

34

35

.

.

.

44

45

46

47

RANGE₈

4(386F6.1/)

48

.

51

8 MHz Endfire X

.

.

72

.

79

RANGE₁₆

8(386F6.1/)

80

.

87

16 MHz Endfire X

"

128	13(386F6.1/)	RANGE	32
.			
.			
140			
141	"	32 MHz Endfire	X
.			
.			
153			
.			
.			
206	"	32 MHz Broadside	Z
.			
218			
End-of-file			

FILE 2

Structured exactly like File 1 except range arrays are absent.

RECORD	CONTENTS	RECORD	CONTENTS
1	TITLE	112	32 MHz
2	MODE	.	"
3	TEMP	189	
4	TXOFF		
.	"		
10	CAL		
.	"		
16	1 MHz		
.	"		
22	2 MHz		
.	"		
28	4 MHz		
.	"		
40	8 MHz		
.	"		
64	16 MHz		
.	"		

(FILES,MODE,DENSITY,TAPE DESCRIPTION)
2 BCD 556 APOLLO 17 DEMULTIPLIED DATA

FILE NO. 1
218 RECORDS
89.7 FEET OF TAPE
0 READ ERRORS

FILE NO. 2
189 RECORDS
77.8 FEET OF TAPE
0 READ ERRORS

*** NO. OF FILES CHECKED = 2 NO. OF FEET OF TAPE = 167.4
TOTAL NO. OF PHYSICAL RECORDS = 407
TOTAL NO. OF READ ERRORS = 0

1. LENGTH 2316

MILLIWATTS) "

3.	LENGTH	REC
2316	05:0	05:0
2317	05:0	05:0
2318	05:0	05:0
2319	05:0	05:0
2320	05:0	05:0
2321	05:0	05:0
2322	05:0	05:0
2323	05:0	05:0
2324	05:0	05:0
2325	05:0	05:0
2326	05:0	05:0
2327	05:0	05:0
2328	05:0	05:0
2329	05:0	05:0
2330	05:0	05:0
2331	05:0	05:0
2332	05:0	05:0
2333	05:0	05:0
2334	05:0	05:0
2335	05:0	05:0
2336	05:0	05:0
2337	05:0	05:0
2338	05:0	05:0
2339	05:0	05:0
2340	05:0	05:0
2341	05:0	05:0
2342	05:0	05:0
2343	05:0	05:0
2344	05:0	05:0
2345	05:0	05:0
2346	05:0	05:0
2347	05:0	05:0
2348	05:0	05:0
2349	05:0	05:0
2350	05:0	05:0
2351	05:0	05:0
2352	05:0	05:0
2353	05:0	05:0
2354	05:0	05:0
2355	05:0	05:0
2356	05:0	05:0
2357	05:0	05:0
2358	05:0	05:0
2359	05:0	05:0
2360	05:0	05:0
2361	05:0	05:0
2362	05:0	05:0
2363	05:0	05:0
2364	05:0	05:0
2365	05:0	05:0
2366	05:0	05:0
2367	05:0	05:0
2368	05:0	05:0
2369	05:0	05:0
2370	05:0	05:0
2371	05:0	05:0
2372	05:0	05:0
2373	05:0	05:0
2374	05:0	05:0
2375	05:0	05:0
2376	05:0	05:0
2377	05:0	05:0
2378	05:0	05:0
2379	05:0	05:0
2380	05:0	05:0
2381	05:0	05:0
2382	05:0	05:0
2383	05:0	05:0
2384	05:0	05:0
2385	05:0	05:0
2386	05:0	05:0
2387	05:0	05:0
2388	05:0	05:0
2389	05:0	05:0
2390	05:0	05:0
2391	05:0	05:0
2392	05:0	05:0
2393	05:0	05:0
2394	05:0	05:0
2395	05:0	05:0
2396	05:0	05:0
2397	05:0	05:0
2398	05:0	05:0
2399	05:0	05:0

Apollle 17
Demultiplexed Data
72-096C-07B

-7-130.1-130.1-134.0-125.2-133.0-132.6-130.6-134.5-132.3-127.9-132.2-133.5-131.8-134.6-130.1-131.0-1
34.6-130.7-130.6-134.6-133.9-131.3-134.6-134.3-130.1-134.5-134.0-130.3-134.6-134.3-132.6-132.8
-130.3-134.6-134.1-130.9-134.6-132.5-132.5-134.6-135.0-132.2-134.6-129.0-131.3-134.6-130.9-132.2-134
-6-134.3-130.9-134.6-133.3-132.4-134.6-135.0-131.9-134.6-134.9-132.6-134.6-135.0-133.4-134.6-130.7-1
26.2-134.6-130.7-133.2-134.6-135.0-128.9-134.6-134.2-128.6-134.6-135.0-130.5-130.1-133.7-126.1-134.6
-130.6-128.9-134.6-125.2-132.9-132.5-129.9-123.0-133.3-135.0-128.3-133.8-130.6-129.9-130.4-134.4-132
-5-134.5-133.6-125.7-134.6-132.9-124.0-126.4-133.1-122.1-134.4-133.0-122.8-134.1-134.1-131.5-134.6-1
31.5-129.1-134.6-133.6-129.6-134.6-133.8-133.7-128.5-133.3-128.3-133.2-132.9-126.5-134.0-132.9-128.2
-133.6-134.5-131.0-131.7-129.2-129.2-123.7-134.6-134.6-121.2-128.6-124.2-124.5-130.6-124.3-132.9-134
-6-134.6-128.1-128.5-124.7-130.2-129.6-128.4-127.9-134.6-134.6-122.7-127.4-126.3-127.7-130.5-119.8-1
34.6-134.6-134.6-124.0-125.5-128.1-128.1-127.7-128.9-125.1-134.6-134.6-120.7-128.5-130.0-126.1-133.2
-129.0-128.1-134.6-134.6-119.3-130.4-130.4-131.1-130.1-120.9-128.4-134.6-134.6-120.9-129.0-130.4-133
-6-132.6-132.9-133.5-134.6-134.6-125.5-135.0-133.9-133.5-132.1-133.6-134.6-134.6-135.0-134.6-1
35.0-133.3-133.9-130.6-134.6-134.6-134.6-123.6-130.9-125.4-133.2-129.0-131.3-129.6-134.6-134.6-124.4
-132.0-128.9-127.2-129.4-131.7-131.7-134.6-134.6-124.5-129.7-128.5-128.1-129.5-129.8-134.6-134.6-1
-6-120.4-131.9-128.8-125.7-132.1-121.9-124.3-134.6-134.6-120.3-130.0-128.2-128.1-131.0-125.3-131.8-1
34.6-134.6-120.9-127.9-129.1-129.5-133.2-129.6-134.6-134.6-120.6-129.3-127.8-129.5-132.4-130.2
-132.9-134.6-134.6-127.9-129.9-128.4-125.1-129.5-128.5-134.0-134.6-134.6-124.3-129.3-126.8-132.3-130
-4-131.5-134.6-134.6-134.6-135.0-133.2-134.5-133.4-133.3-133.0-134.6-134.6-134.6-135.0-133.8-134.7-1
34.2-129.3-134.2-132.5-134.6-134.6-125.0-129.9-131.1-125.8-126.5-130.5-126.1-134.6-134.6-126.2-131.2
-129.7-134.2-132.4-131.5-134.6-134.6-125.7-130.1-132.3-133.8-130.0-129.3-134.6-134.6-134.6-122
-5-128.9-130.6-132.9-128.2-129.2-133.3-134.6-134.6-127.8-135.0-134.7-133.2-133.8-131.7-134.6-134.6-1
34.6-135.0-134.2

-131.3-134.9-132.3-130.4-134.9-131.4-125.1-134.9-131.5-128.7-134.9-131.2-123.8-133.9-133.1-120.4-134
-9-133.2-121.2-134.9-132.1-122.2-134.9-130.5-125.7-134.9-131.7-122.9-134.9-130.8-123.1-134.9-133.6-1
23.0-134.9-133.7-124.4-134.9-134.6-124.0-134.9-130.4-123.4-134.9-131.0-127.4-134.9-133.3-126.7-134.9
-132.1-133.3-134.9-133.1-132.7-134.9-133.2-130.4-134.9-133.8-125.7-134.9-130.8-124.8-134.9-132.7-132

REC 7, LENGTH 2316

APOLLO 17 ----- EVA 11
AL PROPERTIES EXPERIMENT -- LUNAR DATA
S BEEN FULLY CALIBRATED

THIS FILE CONTAINS DATA WHICH HAS
SURFACE ELECTRIC REC

1. LENGTH 2316

ALL DATA ARE PRESENT EXCEPT NAVIGATION DATA.
BY THE THERMAL-VACUUM QUALIFYING TEST RESULTS.

PACKAGE 4 (E

P-4).
THERE HAS BEEN NO SPECIAL TREATMENT OF THE DATA IN THE
VICINITY OF THE LUNAR SURFACE PROFILING EXPERIMENT'S EXPLOSIVE

THE TRAVERSE ON THIS TAPE RUNS FROM THE SEP SITE WESTWARD TO
A RANGE OF 4.3 KM. ON THE LRV'S PATH TO STAT
ION 2. AT THAT TIME

FURTHER DATA.

SOURCE TAPES: SEP400, SEP401, SEP402, SEP403

15 JAN 1974

REC	1. LENGTH	2. LENGTH	3. LENGTH
1	2316	2316	2316
2	2316	2316	2316
3	2316	2316	2316
4	2316	2316	2316
5	2316	2316	2316
6	2316	2316	2316
7	2316	2316	2316
8	2316	2316	2316
9	2316	2316	2316
10	2316	2316	2316
11	2316	2316	2316
12	2316	2316	2316
13	2316	2316	2316
14	2316	2316	2316
15	2316	2316	2316
16	2316	2316	2316
17	2316	2316	2316
18	2316	2316	2316
19	2316	2316	2316
20	2316	2316	2316
21	2316	2316	2316
22	2316	2316	2316
23	2316	2316	2316
24	2316	2316	2316
25	2316	2316	2316
26	2316	2316	2316
27	2316	2316	2316
28	2316	2316	2316
29	2316	2316	2316
30	2316	2316	2316
31	2316	2316	2316
32	2316	2316	2316
33	2316	2316	2316
34	2316	2316	2316
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36	2316	2316	2316
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38	2316	2316	2316
39	2316	2316	2316
40	2316	2316	2316
41	2316	2316	2316
42	2316	2316	2316
43	2316	2316	2316
44	2316	2316	2316
45	2316	2316	2316
46	2316	2316	2316
47	2316	2316	2316
48	2316	2316	2316
49	2316	2316	2316
50	2316	2316	2316
51	2316	2316	2316
52	2316	2316	2316
53	2316	2316	2316
54	2316	2316	2316
55	2316	2316	2316
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58	2316	2316	2316
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85	2316	2316	2316
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88	2316	2316	2316
89	2316	2316	2316
90	2316	2316	2316
91	2316	2316	2316
92	2316	2316	2316
93	2316	2316	2316
94	2316	2316	2316
95	2316	2316	2316
96	2316	2316	2316

.2 96.3 95.7 95.9 95.4 96.0 95.2 96.8 95.7 96.5 95.9 96.4 96.7 96.1 96.3 96.0 95.6
96.0 96.4 95.3 96.3 95.5 96.6 96.7 96.0 96.3 96.4 97.4 95.8 95.9 96.1 96.0 96.5 97.3
96.2 96.7 96.0 96.3 97.8 96.8 95.8 97.1 96.6 97.1 97.3 96.7 96.1 97.6 96.8 96.8 97
5 97.3 96.5 97.2 97.0 96.3 97.5 97.4 97.5 97.2 97.5 97.7 96.9 97.2 97.5 96.7 96.4
96.7 98.3 98.1 98.0 98.1 96.8 97.4 97.6 96.7 98.2 96.8 98.3 97.6 97.6 98.4 97.3 98.1
97.9 98.5 96.3 98.4 97.4 97.7 98.4 98.7 99.0 96.8 98.0 98.7 97.3 98.2 97.9 99.3 97
2 98.4 97.8 98.6 97.4 98.3 98.7 98.4 99.6 98.3 98.5 99.4 99.1 99.0 97.8 99.3 98.0
99.0 97.9 98.9 99.3 98.7 98.3 98.8 98.7 99.2 99.0 98.8 99.6 100.5 98.4 99.2 98.6 99.8
99.5 99.8 99.7 98.7 98.9 98.7 100.4 95.8 99.9 98.7 98.7 100.3 100.0 99.2 100.3 95.5 98
8 100.5 99.8 100.3 99.7 99.6 99.6 100.7 100.3 95.8 98.5 100.0 99.9 99.5 99.5 100.4 101.0
99.8 99.3 100.0

REC

4. LENGTH 2316

-134.6-131.6-129.7-134.4-131.5-128.5-130.3-134.2-129.7-131.4-133.5-129.3-134.6-133.1-130.5-126.2-133
5-129.7-128.0-135.0-131.4-126.7-132.7-131.9-131.2-133.5-128.5-128.2-133.8-130.5-130.7-131.9-131.5-1
26.7-132.9-130.2-132.8-129.3-131.8-134.1-129.7-126.2-134.6-134.2-134.9-132.6-134.6-135.0
-130.9-134.6-133.7-133.3-134.6-133.9-128.5-134.6-134.3-130.0-134.0-135.0-131.8-133.9-134.9-129.8-134
6-133.8-132.4-134.6-135.0-131.1-134.6-132.8-131.9-134.4-129.8-134.6-134.3-130.0-134.6-135.0-1
30.1-127.8-133.0-129.0-128.9-135.0-129.6-127.7-132.2-129.2-134.6-135.0-132.5-129.8-135.0-129.6-130.9
134.5-131.3-128.7-135.0-132.5-127.5-135.0-129.6-122.9-135.0-130.3-131.8-135.0-131.6-127.7-132.3-133
0-126.5-133.5-129.5-127.1-131.5-134.2-121.1-133.6-129.9-125.3-132.6-129.7-128.6-133.9-132.5-130.3-1
34.6-127.1-128.4-134.5-130.3-124.7-134.5-134.2-124.6-134.1-128.7-121.7-135.0-134.2-127.1-134.9-132.1
-128.9-132.4-130.2-126.4-134.7-129.9-127.3-134.6-134.2-121.8-129.0-128.9-125.0-131.7-133.1-131.7-134
6-134.6-134.6-125.0-129.4-128.6-127.8-132.9-130.9-127.3-134.6-134.6-121.8-127.5-130.0-127.4-127.8
-132.0-133.2-134.6-134.6-117.1-129.2-128.5-129.2-133.1-129.0-128.2-134.6-134.6-121.4-129.2-128.9-128
9-129.3-129.8-134.6-134.6-117.1-129.2-128.5-129.2-133.1-129.0-128.2-134.6-134.6-121.4-129.2-128.9-128
34.3-134.2-134.2-134.2-134.6-134.6-125.4-135.0-133.5-130.5-131.8-131.1-134.6-134.6-134.6-135.0-133.4-1
-130.9-129.5-128.1-128.8-128.3-126.0-134.6-134.6-126.5-130.2-127.0-128.2-127.6-131.5-134.6-134.6-134
6-121.9-128.9-128.9-126.5-130.0-121.1-129.3-134.6-134.6-122.6-131.4-129.6-128.6-128.2-128.1-127.3-1
-134.5-134.6-134.6-124.5-128.4-127.0-125.3-125.3-125.3-127.4-125.7-134.6-134.6-123.5-128.3-128.0-128.7-130
8-129.2-134.6-134.6-134.6-135.0-134.7-133.1-134.2-132.2-131.9-134.6-134.6-135.0-135.0-135.0-1
32.3-129.2-132.5-131.9-134.6-134.6-125.1-133.3-130.2-129.6-128.0-129.6-128.4-134.6-134.6-128.6-130.6
-130.7-134.2-130.4-129.0-134.6-134.6-126.9-130.5-130.7-130.2-131.9-123.2-134.1-134.6-134.6-124
3-130.4-130.0-129.6-127.8-129.0-134.6-134.6-125.8-125.8-133.7-135.0-133.6-134.2-129.2-134.6-134.6-124
34.6-135.0-135.0

REC

5. LENGTH 2316

-134.6-134.5-128.5-134.6-130.1-124.1-125.1-127.8-122.5-130.3-128.7-124.2-126.7-131.6-127.5-123.2-129
0-125.9-121.6-128.0-119.3-124.3-130.2-125.3-124.2-127.6-123.7-122.6-129.1-125.6-128.1-129.3-128.5-1
25.4-126.9-126.5-125.6-133.1-126.9-124.7-130.8-119.0-125.0-131.1-126.4-128.1-131.0-130.1-134.6-134.9
-130.3-134.6-135.0-132.3-134.6-134.8-130.3-134.6-132.0-131.0-130.8-129.4-130.4-126.7-135.0-134.2-134
6-134.6-131.3-134.6-131.5-129.2-134.6-134.6-128.9-130.6-125.0-134.4-130.4-125.6-132.8-129.4-134.6-130.0-1
27.0-129.0-128.9-126.0-129.3-130.5-126.4-128.9-130.6-125.0-134.4-130.4-125.6-132.8-129.4-134.6-130.0-1
-125.1-127.1-128.4-125.5-124.8-126.3-125.1-125.9-124.0-131.0-126.6-127.3-131.0-126.7-124.7-128.7-125
30.8-127.1-125.7-128.6-122.5-127.0-134.3-122.3-121.7-129.8-127.0-123.4-123.4-122.5-129.6-128.9-129.1-1
-128.4-127.9-121.7-122.3-128.4-124.5-123.4-134.6-134.6-120.8-128.8-126.3-126.3-132.0-123.9-133.5-134
6-134.6-124.8-129.5-128.6-131.3-128.3-126.3-127.8-134.6-134.6-120.1-128.9-125.9-126.5-126.9-123.6-1
34.6-134.6-134.6-125.0-130.0-128.0-124.0-128.8-129.1-131.6-134.6-134.6-121.8-121.8-128.5-130.9-125.0-130.7
-129.8-133.2-134.6-134.6-117.3-127.8-128.8-129.6-133.3-121.5-123.3-134.6-134.6-123.1-129.8-125.5-129
5-134.1-128.0-132.6-134.6-134.6-125.6-135.0-132.4-130.1-129.3-134.6-134.6-134.6-135.0-135.0-1
35.0-129.9-128.9-129.9-134.6-134.6-134.6-122.5-128.4-123.4-131.9-128.9-128.0-130.4-134.6-134.6-134.6-134
-129.6-129.0-128.1-127.5-128.8-132.8-134.6-134.6-125.2-131.5-129.9-127.6-129.1-127.6-134.6-134.6-134
6-119.4-130.2-128.2-126.4-129.4-131.6-119.7-131.6-134.6-134.6-121.2-130.3-129.8-127.6-127.2-119.9-130.1-1
34.6-134.6-125.6-127.4-129.4-129.7-129.0-128.5-127.6-134.6-134.6-120.1-130.1-129.8-131.0-129.4
-132.5-134.6-134.6-127.7-131.5-126.9-119.8-127.8-123.1-125.9-134.6-134.6-125.8-130.5-125.5-127.6-131
2-127.5-134.6-134.6-135.0-133.6-133.9-132.3-134.1-128.4-134.6-134.6-135.0-134.6-135.0-1
31.1-132.0-129.7-133.3-134.6-134.6-124.9-132.8-133.0-127.7-127.3-128.8-127.3-134.6-134.6-127.0-129.3
-132.4-132.4-127.4-127.8-134.6-134.6-127.6-129.0-133.3-129.0-128.9-127.3-134.6-134.6-134.6-122
3-129.2-129.7-129.6-126.2-128.0-134.6-134.6-124.8-129.2-133.6-134.2-134.2-129.5-134.6-134.6-1
34.6-135.0-132.0

REC

6. LENGTH 2316

-134.6-134.2-131.0-134.6-131.1-126.4-134.6-128.8-122.8-134.6-129.6-126.5-134.6-133.3-131.1-134.6-132

7-130.1-130.1-134.0-125.2-133.0-132.6-130.6-134.5-132.3-127.9-132.2-133.5-131.8-134.6-130.1-131.0-1
34.6-130.7-130.6-134.6-133.9-131.3-134.6-134.3-130.1-134.5-134.0-130.3-134.6-134.3-132.6-134.6-132.8
-130.3-134.6-134.1-130.5-134.6-132.5-132.5-134.6-135.0-132.2-134.6-129.0-131.3-134.6-130.9-132.2-134
6-134.3-130.9-134.6-133.3-132.4-134.6-135.0-131.9-134.6-134.9-132.6-134.6-135.0-133.4-134.6-130.7-1
26-2-134.6-130.7-133.2-134.6-135.0-128.9-134.6-134.2-128.6-134.6-135.0-130.5-130.1-133.7-126.1-134.6
-130.6-128.9-134.6-129.2-132.9-132.5-129.9-123.0-133.3-135.0-128.3-133.8-130.6-129.9-130.4-134.4-132
5-134.5-133.6-129.7-134.6-132.9-124.0-126.6-133.1-122.1-134.4-133.0-122.8-134.1-134.1-131.5-134.6-1
31.5-129.1-134.6-133.6-129.6-134.6-133.8-133.7-128.5-133.3-128.3-133.2-132.9-126.5-134.0-132.9-128.2
-135.6-134.5-131.0-131.7-129.2-129.2-123.7-134.6-134.6-121.2-128.6-124.2-124.5-130.6-124.3-132.9-134
6-134.6-128.1-128.5-124.7-129.2-129.6-128.4-127.9-134.6-134.6-122.7-127.4-126.3-127.7-130.5-119.8-1
34.6-134.6-134.6-124.0-129.5-128.1-128.1-127.7-128.9-125.1-134.6-134.6-120.7-128.5-130.0-126.1-133.2
-129.0-128.1-134.6-134.6-119.3-130.4-130.4-131.1-130.1-120.9-128.4-134.6-134.6-120.9-129.0-130.4-133
6-132.6-132.9-133.5-134.6-134.6-125.5-135.0-133.9-133.5-132.1-133.6-134.6-134.6-135.0-134.6-1
35.0-133.3-133.9-130.6-134.6-134.6-123.6-123.6-130.9-125.4-133.2-129.0-131.3-129.6-134.6-134.6-124.4
-132.0-128.9-127.2-129.4-131.7-131.7-134.6-134.6-124.5-129.7-128.5-128.1-129.5-129.8-134.6-134.6-134
6-120.4-131.9-128.8-125.7-132.1-121.9-124.3-134.6-134.6-120.3-130.0-128.2-128.1-131.0-125.3-131.8-1
34.6-134.6-120.9-127.9-129.1-129.5-133.2-125.6-129.8-134.6-134.6-120.6-129.3-127.8-129.5-132.4-130.2
-132.9-134.6-134.6-127.9-129.9-128.4-125.1-129.5-128.5-134.0-134.6-134.6-124.3-129.3-126.8-132.3-130
4-131.5-134.6-134.6-134.6-135.0-133.2-134.5-133.4-133.3-133.0-134.6-134.6-134.6-135.0-133.8-134.7-1
34.2-129.3-134.2-132.5-134.6-135.0-129.9-131.1-129.8-126.5-130.5-126.1-134.6-134.6-126.2-131.2
-129.7-134.2-132.4-131.5-134.6-134.6-125.7-130.1-132.3-133.8-130.0-129.3-134.6-134.6-134.6-122
5-128.9-130.6-132.9-128.2-129.2-133.3-134.6-134.6-127.8-135.0-134.7-133.2-133.8-131.7-134.6-134.6-1
34.6-135.0-134.2

131.3-134.9-132.3-130.4-134.9-131.4-125.1-134.9-131.5-128.7-134.9-131.2-123.8-133.9-133.1-120.4-134
9-133.2-121.2-134.9-132.1-122.2-134.9-130.5-125.7-134.9-131.7-122.9-134.9-130.8-123.1-134.9-133.6-1
23.0-134.9-133.7-124.4-134.9-134.6-124.0-134.5-130.4-123.4-134.5-131.0-127.4-134.9-133.3-126.7-134.9
-132.1-133.3-134.9-133.1-132.7-134.9-133.2-130.4-134.9-133.8-125.7-134.9-130.8-124.8-134.9-132.7-132
7-134.9-133.6-125.9-134.9-134.6-132.4-134.5-133.6-127.6-134.9-132.9-129.7-134.9-131.1-130.1-134.9-1
30.8-126.7-134.9-131.3-119.8-134.9-130.3-119.8-134.9-130.3-127.8-134.9-131.1-120.4-134.9-131.0-125.6
-134.9-130.5-122.3-134.5-133.7-121.7-134.9-132.6-122.3-134.5-130.4-123.2-134.9-134.3-121.8-134.5-134
6-123.0-134.9-129.8-120.5-134.5-126.0-120.8-134.9-130.6-119.0-134.9-129.6-123.5-134.9-133.2-124.1-1
34.9-132.5-122.3-134.9-133.2-119.4-134.9-133.2-124.0-134.9-132.6-122.5-134.9-131.9-123.2-134.9-133.5
-123.1-134.8-133.9-122.1-134.9-131.9-122.4-133.5-132.0-122.5-128.9-125.9-126.6-130.4-127.5-124.7-133
5-133.5-122.7-134.1-131.6-127.7-132.4-125.6-121.1-131.5-133.1-119.3-128.7-134.2-129.9-130.3-131.4-1
29.4-133.5-133.5-122.6-134.9-134.0-127.1-124.5-129.5-123.8-133.5-133.5-120.1-134.9-134.9-126.7-128.4
-129.6-124.7-133.5-132.1-118.2-134.9-132.2-125.7-132.2-126.4-123.4-133.5-133.5-116.8-131.3-134.9-127
8-131.8-131.7-123.3-129.9-133.5-121.4-134.5-134.9-134.1-134.6-134.3-133.5-133.5-133.5-134.9-134.9-1
34.9-134.6-134.6-132.4-128.6-132.7-133.5-119.3-128.6-134.5-130.2-128.1-132.7-122.9-133.5-133.0-120.7
-134.9-128.8-124.9-134.0-133.0-121.9-132.5-133.5-125.9-134.9-130.7-128.9-129.4-130.9-131.1-133.5-133

REC 7, LENGTH 2316

-128.8-127.9-128.5-129.5-129.4-131.1-123.7-124.2-122.7-125.1-124.6-123.6-127.2-125.8-123.9-124.7-125
-2.125.0-120.6-117.7-121.4-122.5-123.9-122.4-121.4-123.6-124.1-120.2-127.8-131.0-124.4-132.7-127.2-1
26.6-127.3-121.8-124.4-116.7-124.7-127.9-123.5-126.3-121.7-123.5-126.4-124.1-125.9-122.8-124.8-125.7
-123.1-124.0-125.0-125.8-124.4-126.7-124.6-122.8-126.5-122.8-124.3-123.4-122.8-125.3-126.1-127
7-123.1-125.9-124.2-126.1-123.5-129.2-126.3-126.6-128.3-126.3-118.7-126.2-128.5-122.9-128.0-1
26.8-133.3-131.3-134.1-133.5-132.8-133.1-133.5-132.3-132.6-132.4-132.4-133.5-132.8-133.5
-133.5-133.5-133.5-132.6-132.5-133.5-133.5-132.4-131.3-132.0-133.5-130.8-129.1-131.5-131.5-132
-0.133.2-133.5-133.5-130.4-129.2-133.5-129.1-123.6-126.8-128.6-124.8-129.1-123.8-129.7-128.1-125.9-1
28.1-127.7-124.4-125.8-129.3-133.5-133.5-133.5-133.5-133.5-133.5-132.4-133.5-133.0-130.7-133.5-133.5
-131.6-128.4-125.8-129.3-133.5-133.5-132.0-126.8-125.5-121.4-120.0-126.1-131.8-125.9-127.9-128.3-124
4-124.0-127.4-125.7-125.3-129.3-124.0-126.2-122.8-123.5-126.1-127.9-128.0-126.4-127.9-127.1-126.9-1
27.8-128.4-127.6-127.8-126.3-123.8-127.3-124.4-126.0-125.3-124.8-126.0-125.7-125.2-122.1-123.6-126.3
-124.2-133.4-133.5-132.3-131.5-132.2-132.3-131.5-130.0-132.9-128.8-132.0-132.6-133.5-133.5-133
0-133.5-132.6-132.8-133.0-128.9-129.9-130.8-132.6-133.5-133.5-129.3-128.5-130.7-130.4-129.0-129.1-1
29.2-132.8-132.7-130.3-129.3-128.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-131.1-130.7
-128.5-127.3-126.6-125.4-127.8-125.3-125.7-128.3-128.0-124.1-125.7-127.1-126.8-126.0-123.6-124.7-128
2-126.6-127.3-125.2-121.3-128.2-129.0-133.1-131.0-127.3-132.8-125.4-122.2-124.1-124.1-126.8-1
26.4-123.7-126.0-122.8-124.4-122.0-124.8-127.0-124.6-125.9-124.2-118.4-117.3-119.5-124.4-123.1-122.2
-122.1-125.7-123.3-120.6-122.9-122.1-122.9-124.9-123.6-123.6-126.5-125.0-124.0-124.3-122.5-121.5-121
6-120.2-132.3-133.5-130.8-129.3-126.9-130.2-127.0-133.1-133.0-133.0-129.5-130.6-130.8-133.5-133.5-1
31.7-133.5-133.5-133.5-133.5-133.5-133.5-132.5-126.7-131.2-128.8-133.5-132.5-131.1-128.9-129.5
-128.8-128.3-127.3-126.7-128.3-127.5-121.9-128.7-126.8-127.6-129.0-127.9-123.3-127.7-126.0-127
5-127.3-128.8-127.2-125.8-128.8-126.6-124.1-127.5-128.4-125.6-127.7-128.8-126.6-126.6-127.4-122.4-1
22.7-122.4-123.0

REC 1. LENGTH 2316

-124.0-125.4-124.4-123.0-123.3-125.2-127.8-133.5-133.5-133.5-126.8-127.5-126.6-126.3-128.1-126.6-126
-2.122.3-123.3-126.0-121.6-121.8-123.4-120.4-124.5-121.7-119.3-125.4-119.5-122.9-121.1-124.5-121.8-1
25.0-121.6-124.6-131.7-126.7-131.7-128.9-125.8-128.7-128.4-131.8-125.6-127.4-130.9-128.3-128.5-128.3
-129.2-128.9-129.5-127.3-128.9-129.5-132.4-126.3-129.1-131.2-129.5-128.1-131.4-126.8-130.7-130
4-127.7-129.2-126.4-126.4-131.4-131.3-129.2-133.0-125.2-125.4-121.6-122.9-122.7-125.3-125.7-123.2-1
23.9-124.5-124.2-121.7-132.8-123.8-121.4-125.4-124.6-124.6-123.5-122.9-128.3-127.4-123.2-124.5-119.4
-125.0-125.9-124.9-123.4-123.1-123.4-123.9-119.1-126.4-123.7-119.7-128.0-125.1-125.9-123.6-122.3-124
3-122.4-123.0-121.0-120.8-121.4-118.7-124.3-121.0-122.8-123.7-123.7-122.0-117.9-122.5-123.1-122.5-1
19.5-124.4-121.9-121.9-122.6-121.7-122.9-127.5-123.2-124.3-125.0-125.1-123.4-125.1-124.8-126.4-124.3
-124.3-125.0-126.0-130.5-132.3-130.0-130.9-131.3-130.5-132.2-131.0-133.3-128.8-131.3-129.0-131.4-132
1-132.6-131.5-132.4-131.8-129.2-132.8-131.7-130.8-131.5-130.8-128.7-130.5-132.7-131.5-131.7-132.1-1
32.9-132.1-130.9-129.8-132.7-126.4-130.4-125.4-128.7-125.7-122.2-123.5-123.9-126.3-126.4-125.3-118.9
-122.2-120.8-129.0-122.9-127.9-126.0-124.8-123.0-128.6-130.9-129.6-129.1-128.8-127.8-128.0-123.7-123
1-124.6-129.3-126.7-123.3-120.5-124.0-124.3-120.4-125.6-123.9-126.6-124.7-128.5-126.0-125.4-124.3-1
21.3-121.5-127.4-125.0-124.8-125.4-124.6-122.4-122.8-124.8-124.8-123.2-123.2-122.3-122.3-123.3-122.8-120.3
-125.5-122.4-121.6-123.5-123.9-124.4-125.9-123.3-122.9-122.1-128.5-125.7-127.4-125.3-133.5-133.0-132
5-129.6-131.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-132.9-133.5-133.3-133.5-132.5-133.5-1
32.7-131.4-131.8-133.5-133.5-133.5-133.5-132.8-133.4-132.8-133.5-131.1-133.5-131.7-133.5
-133.5-133.5-133.3-132.7-132.4-133.5-131.7-133.5-133.0-127.6-127.5-126.0-127.1-128.4-129.3-128.4-128
5-129.0-125.1-129.1-128.9-126.6-128.7-128.6-129.1-125.0-127.2-127.1-127.3-133.5-126.9-127.5-127.7-1
28.0-128.0-125.0-125.9-126.7-127.4-129.1-127.3-127.4-129.6-129.3-125.3-128.8-127.5-125.2-127.0-124.7
-125.6-125.5-125.1-126.1-124.1-129.2-126.6-124.7-124.5-125.3-126.3-126.3-124.9-121.9-124.2-121.2-120
4-122.1-124.7-121.0-121.5-124.2-116.9-122.9-122.0-118.3-118.6-118.0-122.3-125.5-120.4-119.3-121.2-1
33.5-133.5-133.5

REC 2. LENGTH 2316

-133.5-130.7-133.5-133.5-131.9-132.3-133.5-133.5-133.5-132.7-133.5-133.5-132.3-133.5-131.0-132.5-132
6-133.5-133.4-131.6-132.6-133.2-132.7-132.6-133.2-133.5-133.0-128.1-131.2-129.6-127.2-132.3-1
24.1-128.6-132.1-133.5-133.5-133.5-125.1-133.1-133.5-133.2-132.6-131.8-131.8-129.9-132.4-129.2-129.8
-128.7-128.4-128.1-128.8-127.8-130.6-129.0-127.7-128.4-133.5-131.4-129.3-128.1-128.8-127.5-129.4-124
7-123.8-126.7-125.6-124.6-124.7-123.3-122.0-120.4-120.4-123.7-119.3-120.0-121.8-126.9-130.5-127.5-1
26.0-126.2-125.0-125.5-126.7-125.4-124.8-125.2-121.1-124.6-133.5-126.4-126.9-133.5-133.5-133.5
-133.5-130.0-128.1-126.0-124.8-132.7-133.4-132.0-133.5-132.2-133.5-133.5-133.0-132.0-133
4-132.3-130.7-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-1
33.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5
-132.5-132.2-132.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-129
2-131.0-131.0-133.5-128.6-129.1-131.0-129.0-129.8-127.6-128.1-127.5-133.5-133.5-133.5-131.3-1
32.3-133.5-133.5-133.5-133.5-133.5-125.4-126.8-127.6-126.3-127.2-133.5-133.5-133.5-133.5-133.5-133.5
-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5

REC 3. LENGTH 2316

[illegible]

-128.5-128.6-127.7-130.5-129.8-127.5-128.4-126.7-127.9-128.2-125.1-128.8-128.2-127.9-127.3-125.3-121
 -9.131.7-124.6-123.6-124.2-127.4-123.3-124.4-126.0-125.9-121.3-125.1-126.7-125.6-125.3-124.9-125.8-1
 23.6-125.1-125.0-126.0-124.3-124.8-125.7-123.6-124.7-125.5-127.9-128.2-126.8-126.1-127.8-126.0-126.4
 -126.0-126.2-125.2-124.8-130.0-124.9-128.7-133.5-133.5-133.5-133.2-133.4-133.5-132.9-132.7-132.9-130
 -124.0-132.3-133.5-133.6-133.1-133.4-133.5-131.3-132.4-133.1-133.2-133.5-133.5-133.5-127.9-129.5-126.2
 32.3-133.5-131.1-132.7-133.5-132.5-132.7-133.5-131.9-131.2-132.7-133.5-132.0-126.9-127.9-129.5-126.2
 -125.8-127.1-127.9-126.5-126.1-125.2-128.6-122.5-128.1-127.7-128.7-126.9-125.4-121.7-125.4-127.0-133
 -5-133.5-133.5-132.4-125.6-126.7-122.5-127.7-130.5-128.4-133.5-133.5-133.5-133.5-129.9-125.0-1
 28.7-128.1-126.9-127.5-126.7-127.7-125.6-126.3-127.2-125.2-127.0-126.7-124.8-124.3-125.2-125.6-126.8
 -126.8-124.9-126.6-126.1-126.2-125.0-125.3-125.7-126.1-126.3-127.4-125.4-125.9-123.6-124.8-127.1-125.7-126
 -5-123.2-125.6-128.4-127.0-127.1-127.9-128.1-133.5-133.5-133.5-133.5-133.5-131.2-130.9-133.5-133.2-132.0-133.5-5
 33.5-133.5-132.6-133.5-133.5-133.5-133.5-133.5-133.5-133.5-133.5-131.2-130.9-133.5-133.2-132.1-125.1-128
 -133.6-132.8-132.1-133.5-133.5-133.3-133.2-133.5-133.6-133.2-9-132.7-131.5-133.5-132.4-132.1-125.1-128
 0-130.1-132.3-133.5-130.6-128.9-125.4-128.8-130.9-130.8-127.8-130.2-132.7-127.1-127.3-133.5-133.5-1
 33.6-133.5-133.5-133.5-133.5-128.9-122.9-127.3-126.8-125.2-128.0-122.5-127.1-128.5-133.5-128.9-127.1
 -126.3-126.5-127.0-124.6-123.1-125.4-124.2-125.0-128.6-124.5-125.8-123.8-121.9-125.4-127.1-125.0-1
 5-128.1-125.9-126.3-125.6-125.3-126.9-126.1-124.1-125.3-123.5-125.8-123.5-133.5-133.5-132.2-133.1-133.1
 25.8-128.8-132.2-128.4-123.7-126.2-126.5-133.5-133.5-133.5-133.5-129.5-132.2-133.5-131.3-133.5-133
 -133.0-133.5-133.1-133.2-133.5-133.5-133.5-125.1-133.5-133.5-133.5-133.5-132.2-132.8-131.8-1
 5-130.3-133.4-131.1-131.9-132.4-133.5-133.5-133.5-133.5-125.1-133.5-133.5-132.2-132.8-131.8-1
 33.5-133.2-131.2-130.8-133.3-131.3-132.7-129.5-130.8-133.6-126.9-126.4-131.8-130.7-132.5-132.2-122
 -128.3-128.3-128.6-125.6-127.8-128.3-128.3-125.3-128.7-127.3-127.1-128.6-129.0-127.8-127.0-127.2-122
 -6-128.7-126.7-123.8-124.4-123.8-122.2-120.1-122.6-124.5-121.3-123.8-124.4-124.0-121.6-123.1-123.5-
 22.4-123.5-122.9

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