#310

APOLLO 17

DEMULTIPLEXED DATA

72-096C-07B

APOLLO 17

LM/ALSEP DEMULTIPLEXED DATA ON TAPE

72-096C-07B

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	RAND NO.	ACQ. AGENT
CMT	RC0022	RWV

APOLLO 17

DEMULTIPLEXED DATA

72-096C-07B

This data set consists of 1 tape written in ~~BCD~~ ASCII 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.

D#	C#
D-14011	C-15845

FILE 1

RECORD	FORMAT	CONTENTS	
1	27(14A6),8A6	TITLE:	27 card images plus padding.
2	386I6	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				

34	2(386F6.1/)	4 MHz Endfire Y
35		
.		
.		
.		
44		
45	4(386F6.1/)	$RANGE_8$
46		
47		
48		
.	"	
51		8 MHz Endfire X
.		
.		
72		
.	8(386F6.1/)	$RANGE_{16}$
79		
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		
.	"		

```
*************************************************************************
(NFILES,MODE,DENSITY,TAPE DESCRIPTION)
  2 BCD 556   APOLLO 17 DEMULTIPLEXED DATA
*************************************************************************


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


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



***  NO. OF FILES CHECKED =  2            NO. OF FEET OF TAPE =  167.4
         TOTAL NO. OF PHYSICAL RECORDS =    407
         TOTAL NO. OF READ ERRORS =    0
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Apollo 17
Demultiplexed Data
72-096C-07B

SURFACE ELECTRICAL PROPERTIES EXPERIMENT -- LUNAR DATA SCIENCE SOURCE T REC 1. LENGTH 2316
APES* SEP400,SEP401,SEP402,SEP403 NAVIGATION DATA SOURCE TAPE* SEP
304 THE SCIENCE AND NAVIGATION DATA IN THIS FILE HAV
E BEEN 'STRAIGHTENED' THROUGH THE TURN AT THE SITE OF THE LUNAR
SEISMIC PROFILING EXPERIMENT'S EXPLOSIVE PACKAGE 4 (EP-4).
THE SCIENCE DATA FROM THE END OF RECORD 53 WAS DUPLICATED INTO RECORDS 54 T
HROUGH 66. NAVIGATION DATA UPDATED FOR THESE RECORDS WERE SUPPRESSED.
THE SCIENCE DATA ARE COMPLETELY CALIBRATED T
O THE RESULTS OF THE THERMAL-VACUUM TEST CALIBRATION OF THE RECEIVER. NOTE T
HAT ALL DATA TAKES ON DIFFERENT MEANING WHEN THE MODE CHANGES FROM
MODE 1 TO MODE 2. NORMAL XYZ CYCLING OF THE RECEIVING ANTENNAS IS SUPPR
ESSED, AND THE 'A' DIGIT (10'S DIGIT) OF THE MODE WORD INDICATES THE ANTENNA WH
ICH WAS ACTIVE (E.G. IF THE MODE WORD FOR A RECORD IS 220, THEN THE 10'S DIGIT IS
2, AND THE Y ANTENNA IS ACTIVE, SO THE X AND Z ARRAYS FOR THIS RECORD REALLY CONTAIN Y D
ATA). THIS MODE CHANGE HAS BEEN ACCOUNTED FOR IN THE CALIBRATION OF THE DATA.
ALL DISTANCES ARE GIVEN IN METERS.
RECEIVED POWERS ARE GIVEN IN DBM (DECIBELS REFERENCED TO MILLIWATTS). ALL

15 JAN 1974

111 121 131 111 121 131 111 121 131 111 121 131 111 121 131 111 1 REC 2. LENGTH 2316
21 131 111 121 130 111 121 131 111 120 131 111 121 131 111 121 131
111 121 131 111 121 131 111 121 131 110 120 130 111 121 131 111 121
130 111 121 131 111 121 130 111 121 131 111 121 130 111 120 131 1
11 121 130 110 120 131 111 121 130 110 120 131 111 121 130 110 120
131 111 121 130 111 121 131 110 120 130 111 121 131 110 121 130 111
120 130 110 120 130 110 121 131 110 120 130 111 121 130 110 120 1
30 110 120 130 110 120 130 110 120 130 110 120 130 110 120 130 110
120 130 110 120 130 110 120 130 110 120 130 110 120 130 110 120 130
110 120 130 110 120 130 210 210 210 220 220 220 230 230 230 210 2
10 210 220 220 220 230 230 230 210 210 220 220 220 230 230 230
210 210 210 220 220 220 230 230 230 210 210 210 220 220 220 230 230
230 210 210 210 220 220 220 230 230 230 210 210 210 220 220 220 2
30 230 230 210 210 210 220 220 220 230 230 230 210 210 210 220 220
220 230 230 230 210 210 210 220 220 220 230 230 230 210 210 210 220
220 220 230 230 230 210 210 210 220 220 220 230 230 230 210 210 2
10 220 220 220 230 230 230 210 210 210 220 220 220 230 230 230 210
210 210 220 220 220 230 230 230 210 210 210 220 220 220 230 230 230
210 210 210 220 220 220 230 230 230 210 210 210 220 220 220 230 2
30 230 210 210 210 220 220 220 230 230 230 210 210 210 220 220 220
230 230 230 210 210 210 220 220 220 230 230 230 210 210 210 220 220
220 230 230 230 210 210 210 220 220 220 230 230 230 210 210 210 2
20 220 220 230 230 230 210 210 210 220 220 220 230 230 230 210 210
210 220 220

84.3 84.0 85.5 85.1 84.9 84.5 84.5 84.5 85.3 85.0 86.9 85.8 85.3 85.3 85.6 86.2 86 REC 3. LENGTH 2316
.6 86.2 87.2 85.3 85.7 87.0 86.6 86.5 86.9 87.5 86.6 87.2 87.8 87.0 87.4 86.7 86.5
86.7 87.1 87.4 87.9 88.2 88.4 87.3 87.9 87.9 89.0 88.4 88.5 88.5 88.8 88.2 88.0 88.7
88.6 88.4 88.8 89.5 88.7 89.0 89.0 88.9 88.2 88.8 89.6 88.9 88.9 89.2 89.0 89.6 89
.2 88.5 89.7 90.3 89.2 90.1 90.1 89.8 90.5 91.0 91.1 90.7 90.1 90.1 90.3 88.9 90.6
90.3 91.1 90.6 90.7 90.2 90.8 90.3 89.8 91.1 90.9 91.3 90.4 91.1 90.3 91.5 91.0 91.4
90.8 91.0 91.8 91.2 91.8 91.4 91.3 90.9 92.1 92.1 91.8 91.5 92.1 91.7 91.4 92.0 92
.0 92.7 92.4 92.3 91.8 92.6 92.5 91.4 91.8 92.4 92.8 91.4 92.8 93.4 92.2 93.8 92.2
93.0 93.7 91.8 92.4 92.3 93.1 92.8 91.9 92.6 92.6 93.7 93.0 93.7 93.0 92.7 93.6 93.9
93.0 93.7 92.7 93.4 93.2 94.5 93.3 93.9 93.4 93.2 93.0 93.4 94.2 93.0 94.7 93.0 93
.3 93.5 94.4 93.3 93.1 93.9 93.6 93.9 94.9 94.1 92.1 95.3 94.4 93.9 95.3 94.3 94.2
94.5 95.0 94.7 93.4 94.0 95.5 95.2 94.5 94.5 94.9 94.9 94.7 95.6 95.6 95.1 94.5 94.4
95.1 95.9 94.8 96.1 95.1 95.5 95.1 95.0 94.5 96.1 95.7 95.3 96.0 95.5 95.0 96.0 96

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.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  96.5  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  99.8  99.9  98.7  98.7 100.3 100.0  99.2 100.3  99.5  98
.8 100.5  99.8 100.3  99.7  99.6  99.6 100.7 100.3  99.8  98.5 100.0  99.9  99.5  99.5 100.4 101.0
99.8  99.3 100.0

-134.6-131.6-129.7-134.4-131.5-128.5-130.3-134.2-129.7-131.4-133.9-129.3-134.6-133.1-130.5-126.2-133   REC      4, LENGTH  2316
.5-129.7-128.0-135.0-131.4-126.7-132.7-131.9-131.2-133.9-128.5-128.2-133.8-130.5-130.7-131.9-131.5-1
26.7-132.9-130.2-132.8-134.6-129.3-131.8-134.1-129.7-126.2-134.6-134.2-134.1-134.9-132.6-134.6-135.0
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.6-133.8-132.4-134.6-135.0-131.1-134.6-132.8-131.9-133.0-134.4-129.8-134.6-134.3-130.0-134.6-135.0-1
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.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
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-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
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-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
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-134.5-134.6-134.6-124.5-128.4-127.0-125.3-129.3-127.4-129.7-134.6-134.6-123.5-128.3-128.0-128.7-130
.8-129.2-134.6-134.6-134.6-135.0-134.7-133.1-134.2-132.2-131.9-134.6-134.6-134.6-135.0-135.0-135.0-1
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
-130.7-134.2-130.4-129.0-134.6-134.6-134.6-126.9-130.5-130.7-130.2-131.9-123.2-134.1-134.6-134.6-124
.3-130.4-130.0-129.6-127.8-129.0-134.6-134.6-134.6-125.8-133.7-135.0-133.6-134.2-129.2-134.6-134.6-1
34.6-135.0-135.0

-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   REC      5, LENGTH  2316
.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
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-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
.6-134.6-131.3-134.6-131.9-129.2-134.6-134.6-129.8-134.6-135.0-129.8-134.6-132.8-129.4-134.6-130.0-1
27.0-129.0-128.9-126.0-129.3-130.5-126.4-128.9-130.6-125.0-134.4-130.4-125.6-124.9-131.2-124.5-130.3
-125.1-127.1-128.4-129.5-124.8-126.3-129.1-125.9-124.0-131.0-126.6-127.3-131.0-126.7-124.7-128.7-125
.0-129.1-128.5-126.5-123.4-129.5-127.9-125.8-130.2-125.4-125.9-129.4-127.4-122.5-129.6-128.9-129.1-1
30.8-127.1-125.7-128.6-122.5-127.0-134.3-122.3-121.7-129.8-127.0-123.4-126.7-123.4-125.8-132.6-128.1
-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
34.6-134.6-134.6-125.9-130.0-128.0-124.0-128.8-129.1-131.6-134.6-134.6-121.8-128.5-130.9-125.0-130.7
-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
.5-134.1-128.0-132.6-134.6-134.6-125.6-135.0-135.0-132.4-130.1-129.3-134.6-134.6-134.6-135.0-135.0-1
35.0-129.9-128.9-129.9-134.6-134.6-134.6-122.5-128.4-123.4-131.9-128.9-128.0-130.4-134.6-134.6-122.9
-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
.6-119.4-130.2-128.2-126.4-131.6-119.7-131.6-134.6-134.6-121.2-130.3-129.8-127.6-127.2-119.9-130.1-1
34.6-134.6-125.6-127.4-129.4-129.7-129.0-128.5-127.6-134.6-134.6-120.1-130.1-128.1-129.8-131.0-129.4
-132.5-134.6-134.6-127.7-131.5-126.9-119.8-127.8-123.1-129.9-134.6-134.6-125.8-130.5-125.5-127.6-131
.2-127.5-134.6-134.6-134.6-135.0-133.6-133.9-132.3-134.1-128.4-134.6-134.6-134.6-134.6-135.0-134.1-135.0-1
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
-132.4-132.4-127.4-127.8-134.6-134.6-134.6-127.6-129.0-133.3-129.0-128.9-127.3-134.6-134.6-134.6-122
.3-129.2-129.7-129.6-128.2-128.0-134.6-134.6-134.6-124.8-129.2-133.6-134.2-134.2-129.5-134.6-134.6-1
34.6-135.0-132.0

-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   REC      6, LENGTH  2316
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.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
-130.3-134.6-134.1-130.9-134.6-132.5-132.5-134.6-135.0-132.2-134.6-129.0-131.3-134.6-130.9-132.2-134
.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
-130.6-128.9-134.6-129.2-132.9-132.5-129.9-123.0-133.3-135.0-128.3-133.8-130.6-129.9-130.4-134.4-132
.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
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-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
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.6-132.6-132.9-133.5-134.6-134.6-125.5-135.0-133.9-133.5-132.1-133.6-134.6-134.6-134.6-135.0-134.6-1
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
-132.0-128.9-127.2-129.4-131.7-131.7-134.6-134.6-124.5-129.7-128.5-128.1-129.5-129.8-134.6-134.6-134
.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
34.6-134.6-120.9-127.9-129.1-129.5-133.2-129.6-129.8-134.6-134.6-120.6-129.3-127.8-129.5-132.4-130.2
-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
34.2-129.3-134.2-132.5-134.6-134.6-125.0-129.9-131.1-129.8-126.5-130.5-126.1-134.6-134.6-126.2-131.2
-129.7-134.2-132.4-131.9-134.6-134.6-134.6-125.7-130.1-132.3-133.8-130.0-129.3-134.6-134.6-134.6-122
.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 REC 7, LENGTH 2316
.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

APOLLO 17 ---- EVA II
AL PROPERTIES EXPERIMENT -- LUNAR DATA SURFACE ELECTRIC REC 1. LENGTH 2316
S BEEN FULLY CALIBRATED THIS FILE CONTAINS DATA WHICH HA
BY THE THERMAL-VACUUM QUALIFYING TEST RESULTS.
ALL DATA ARE PRESENT EXCEPT NAVIGATION DATA.
THERE HAS BEEN NO SPECIAL TREATMENT OF THE DATA IN THE
VICINITY OF THE LUNAR SURFACE PROFILING EXPERIMENT'S EXPLOSIVE
P-4). PACKAGE 4 (E
NS FROM THE SEP SITE WESTWARD TO THE TRAVERSE ON THIS TAPE RU
ION 2. AT THAT TIME A RANGE OF 4.3 KM, ON THE LRV'S PATH TO STAT
A FALSE RESYNCHRONIZATION OF THE RECEIVER TIMING INVALIDATED
FURTHER DATA.
SOURCE TAPES: SEP400, SEP401, SEP402, SEP403

15 JAN 1974

111 121 131 111 121 131 111 121 131 111 121 131 111 121 131 111 1 REC 2. LENGTH 2316
21 131 111 121 130 111 121 131 111 120 131 111 121 131 111 121 131
111 121 131 111 121 131 111 121 131 110 120 130 111 121 131 111 121
130 111 121 131 111 121 130 111 121 131 111 121 130 111 120 131 1
11 121 130 110 120 131 111 121 130 110 120 131 111 121 130 110 120
131 111 121 130 111 121 131 110 120 130 111 121 131 110 121 130 111
120 130 110 120 130 110 121 131 110 120 130 111 121 130 110 120 1
30 110 120 130 110 120 130 110 120 130 110 120 130 110 120 130 110
120 130 110 120 130 110 120 130 110 120 130 110 120 130 110 120 130
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210 220 220

84.3 84.0 85.5 85.1 84.9 84.5 84.5 84.5 85.3 85.0 86.9 85.8 85.3 85.3 85.6 86.2 86 REC 3. LENGTH 2316
.6 86.2 87.2 85.3 85.7 87.0 86.6 86.5 86.9 87.5 86.6 87.2 87.8 87.0 87.4 86.7 86.5
86.7 87.1 87.4 87.9 88.2 88.4 87.3 87.9 87.9 89.0 88.4 88.5 88.5 88.8 88.2 88.0 88.7
88.6 88.4 88.8 89.5 88.7 89.0 89.0 88.9 88.2 88.8 89.6 88.9 88.9 89.2 89.0 89.6 89
.2 88.5 89.7 90.3 89.2 90.1 90.1 89.8 90.5 91.0 91.1 90.7 90.1 90.1 90.3 88.9 90.6
90.3 91.1 90.6 90.7 90.2 90.8 90.3 89.8 91.1 90.9 91.3 90.4 91.1 90.3 91.5 91.0 91.4
90.8 91.0 91.8 91.2 91.8 91.4 91.3 90.9 92.1 92.1 91.8 91.5 92.1 91.7 91.4 92.0 92
.0 92.7 92.4 92.3 91.8 92.6 92.5 91.4 91.8 92.4 92.8 91.4 92.8 93.4 92.2 93.8 92.2
93.0 93.7 91.8 92.4 92.3 93.1 92.8 91.9 92.6 92.6 93.7 93.0 93.7 93.0 92.7 93.6 93.9
93.0 93.7 92.7 93.4 93.2 94.5 93.3 93.9 93.4 93.2 93.0 93.4 94.2 93.0 94.7 93.0 93
.3 93.5 94.4 93.3 93.1 93.9 93.6 93.9 94.9 94.1 92.1 95.3 94.4 93.9 95.3 94.3 94.2
94.5 95.0 94.7 93.4 94.0 95.5 95.2 94.5 94.5 94.9 94.9 94.7 95.6 95.6 95.1 94.5 94.4
95.1 95.9 94.8 96.1 95.1 95.5 95.1 95.0 94.5 96.1 95.7 95.3 96.0 95.5 95.0 96.0 96

.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 96.5 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 99.8 99.9 98.7 98.7 100.3 100.0 99.2 100.3 99.5 98
.8 100.5 99.8 100.3 99.7 99.6 99.6 100.7 100.3 99.8 98.5 100.0 99.9 99.5 99.5 100.4 101.0
99.8 99.3 100.0

-134.6-131.6-129.7-134.4-131.5-128.5-130.3-134.2-129.7-131.4-133.9-129.3-134.6-133.1-130.5-126.2-133 REC 4, LENGTH 2316
.5-129.7-128.0-135.0-131.4-126.7-132.7-131.9-131.2-133.9-128.5-128.2-133.8-130.5-130.7-131.9-131.5-1
26.7-132.9-130.2-132.8-134.6-129.3-131.8-134.1-129.7-126.2-134.6-134.2-134.1-134.9-132.6-134.6-135.0
-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
.6-133.8-132.4-134.6-135.0-131.1-134.6-132.8-131.9-133.0-134.4-129.8-134.6-134.3-130.0-134.6-135.0-1
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
.6-134.6-127.0-129.9-132.3-131.3-128.5-130.4-124.8-134.6-134.6-118.1-130.5-128.7-127.5-126.6-127.4-1
34.6-134.6-134.6-125.0-129.4-128.6-127.8-132.9-130.9-127.3-134.6-134.6-121.8-127.5-130.0-127.4-127.8
-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
.9-129.3-129.8-134.6-134.6-134.6-125.4-135.0-133.5-130.5-131.8-131.1-134.6-134.6-134.6-135.0-133.4-1
34.3-134.2-134.2-134.2-134.6-134.6-134.6-124.3-130.2-129.3-132.6-132.4-127.6-128.2-134.6-134.6-123.5
-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
34.6-134.4-121.9-128.1-128.3-127.6-129.8-129.5-128.5-134.6-134.6-122.6-130.8-128.5-131.3-133.2-129.0
-134.5-134.6-134.6-124.5-128.4-127.0-125.3-129.3-127.4-129.7-134.6-134.6-123.5-128.3-128.0-128.7-130
.8-129.2-134.6-134.6-134.6-135.0-134.7-133.1-134.2-132.2-131.9-134.6-134.6-134.6-135.0-135.0-135.0-1
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
-130.7-134.2-130.4-129.0-134.6-134.6-134.6-126.9-130.5-130.7-130.2-131.9-123.2-134.1-134.6-134.6-124
.3-130.4-130.0-129.6-127.8-129.0-134.6-134.6-134.6-125.8-133.7-135.0-133.6-134.2-129.2-134.6-134.6-1
34.6-135.0-135.0

-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 REC 5, LENGTH 2316
.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
.6-134.6-131.3-134.6-131.9-129.2-134.6-134.6-129.8-134.6-135.0-129.8-134.6-132.8-129.4-134.6-130.0-1
27.0-129.0-128.9-126.0-129.3-130.5-126.4-128.9-130.6-125.0-134.4-130.4-125.6-124.9-131.2-124.5-130.3
-125.1-127.1-128.4-129.5-124.8-126.3-129.1-125.9-124.0-131.0-126.6-127.3-131.0-126.7-124.7-128.7-125
.0-129.1-128.5-126.5-123.4-129.5-127.9-125.8-130.2-125.4-125.9-129.4-127.4-122.5-129.6-128.9-129.1-1
30.8-127.1-125.7-128.6-122.5-127.0-134.3-122.3-121.7-129.8-127.0-123.4-126.7-123.4-125.8-132.6-128.1
-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
34.6-134.6-134.6-125.9-130.0-128.0-124.0-128.8-129.1-131.6-134.6-134.6-121.8-128.5-130.9-125.0-130.7
-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
.5-134.1-128.0-132.6-134.6-134.6-125.6-135.0-135.0-132.4-130.1-129.3-134.6-134.6-134.6-135.0-135.0-1
35.0-129.9-128.9-129.9-134.6-134.6-134.6-122.5-128.4-123.4-131.9-128.9-128.0-130.4-134.6-134.6-122.9
-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
.6-119.4-130.2-128.2-126.4-131.6-119.7-131.6-134.6-134.6-121.2-130.3-129.8-127.6-127.2-119.9-130.1-1
34.6-134.6-125.6-127.4-129.4-129.7-129.0-128.5-127.6-134.6-134.6-120.1-130.1-128.1-129.8-131.0-129.4
-132.5-134.6-134.6-127.7-131.5-126.9-119.8-127.8-123.1-129.9-134.6-134.6-125.8-130.5-125.5-127.6-131
.2-127.5-134.6-134.6-134.6-135.0-133.6-133.9-132.3-134.1-128.4-134.6-134.6-134.6-135.0-134.1-135.0-1
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
-132.4-132.4-127.4-127.8-134.6-134.6-134.6-127.6-129.0-133.3-129.0-128.9-127.3-134.6-134.6-134.6-122
.3-129.2-129.7-129.6-128.2-128.0-134.6-134.6-134.6-124.8-129.2-133.6-134.2-134.2-129.5-134.6-134.6-1
34.6-135.0-132.0

-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 REC 6, LENGTH 2316

.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
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-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
-130.6-128.9-134.6-129.2-132.9-132.5-129.9-123.0-133.3-135.0-128.3-133.8-130.6-129.9-130.4-134.4-132
.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
-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
34.6-134.6-134.6-124.0-129.5-128.1-128.1-127.7-128.9-125.1-134.6-134.6-120.7-128.5-130.0-126.1-133.2
-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
.6-132.6-132.9-133.5-134.6-134.6-125.5-135.0-133.9-133.5-132.1-133.6-134.6-134.6-134.6-135.0-134.6-1
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-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
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-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
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-129.7-134.2-132.4-131.9-134.6-134.6-134.6-125.7-130.1-132.3-133.8-130.0-129.3-134.6-134.6-134.6-122
.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 REC 7, LENGTH 2316
.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
.7-134.9-133.6-129.9-134.9-134.6-132.4-134.9-133.6-127.6-134.9-132.9-129.7-134.9-131.1-130.1-134.9-1
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-134.9-130.5-122.3-134.9-133.7-121.7-134.9-132.6-122.3-134.9-130.4-123.2-134.9-134.3-121.8-134.9-134
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