

#451

NASA GRENADE + P PROBE OBS

RN-21E

REQ. AGENT  
VPL

NO.  
V0016

ACQ. AGENT  
BCD

RN-21E

NASA GRENADE + P PROBE OBS

This data set catalog consists of 1 data tape. The tape is 9 track EBCDIC, 1600 BPI and has 2 files of data. The tape was created on an IBM 360/75 computer.

Time span is as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-35359	C-20900	7/09/60 5/17/72

UNITED STATES GOVERNMENT

# Memorandum

TO : John S. Theon, Head  
Meteorology Branch

DATE: August 27, 1974

FROM : R. A. Minzner  
Meteorology Branch

SUBJECT: Contents and Generation of the following Magnetic Computer  
Tapes: #10-235, #10-273, #10-461 and #10-615

Magnetic tape #10-273, known hereafter as the geometric tape, contains in a single format the grenade-derived and pitot-tube-derived atmospheric sounding data published in NASA Technical Reports R-211, R-245, R-263, R-288, R-316, R-340, R-360-R391 and R-416, along with the data from three other pitot-tube soundings not included in the nine reports cited above. The atmospheric data listed consists of temperature ( $^{\circ}\text{K}$ ), pressure ( $\text{N}/\text{m}^2$ ), density ( $\text{kg}/\text{m}^3$ ) and geopotential (geopotential meters) as a function of geometric height in integer multiples of 1000 geometric meters. Tape #10-235, known hereafter as the geopotential tape, contains values of temperature ( $^{\circ}\text{K}$ ) pressure ( $\text{N}/\text{m}^2$ ) and density ( $\text{kg}/\text{m}^3$ ) as a function of geopotential height in integer multiples of 1000 geopotential meters.

The data listed on the geometric tape do not necessarily agree exactly with the values previously published in the above listed reports with the differences related primarily to differences in the number of significant figures used in the generation of this tape, compared with the number used in the preparation of the original reports. This situation applies particularly to all the grenade-derived soundings made after 1963. The grenade soundings for the years 1960 through 1963 were listed in TR-R-211 for geometric heights which were non-integer multiples of 1000 meters, and consequently, the data on this tape which is only for integer multiples of 1000 meters have no direct correspondence with the original data published for those four years, even though there is consistency between the two presentations.

The grenade sounding data on the geometric tape were generated in a different manner from that used in the generation of the pitot-tube data. The grenade data were all generated from limited input data and are not the result of a key punch copy of the originally published detailed sounding results. The primary grenade input data for each sounding consisted of an abbreviated temperature-height table of n-1 entries,



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FROM: R. A. Minzner

where  $n$  is the number of grenade bursts associated with the sounding. The second piece of input data was a single temperature-height value key punched to be consistent with the lowest height of the originally published detailed tables, and originally derived presumably from a radio-sonde source. This data pair was necessary to extend each derived sounding down to the lowest height of the originally published table for that sounding, particularly where the lowest grenade burst occurred above 30 km. The third piece the input data was a single pressure value consistent with the pressure for the greatest integer multiple of 1000 meters within the range of the primary grenade input data. This value was taken directly from the original detailed table or interpolated for soundings listed in TR-R-211.

The primary input data consisted of the mean temperature for each of a number of successive atmospheric layers (defined by the heights of successive grenade bursts) versus the mid-point height of the related layers. These data were supplied in key-punch form by Globe Universal Science Inc. with temperatures given to the nearest tenth of a degree, and geometric height given to the nearest tenth of a meter. This precision, while very adequate, is not consistent with the precision used in the generation of the first five data reports referred to above.

The height values of the basic, temperature-height, grenade data were converted to geopotential in accordance with the sea-level value of the acceleration of gravity for the latitude of the launch site. The temperature was considered to vary linearly with geopotential between the basic data points. Then, using the high-altitude pressure value as a starting point, pressures and densities were calculated from temperatures and geopotentials for each geopotential associated with an integer-kilometer geometric height. This calculation<sup>\*\*45</sup> performed using a well-known equation.

A similar calculation was made for each integer multiple of 1000 geopotential meters. This latter calculation provided the grenade-sounding data for the geopotential tape.

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No punch-card data were available from Globe Universal Science Inc. for the generation of the pitot-tube soundings on the tape, and this generation process began therefore with a considerable key-punch effort. The key punching was not done, however, from the above-mentioned data reports containing the grenade-sounding data, rather from a recent University of Michigan summary report of the pitot-tube soundings, i.e., "Neutral Atmospheric Structure Measurements by Pitot Tube Techniques". University of Michigan 05776-1-F, May 1972, by J. J. Horvath under NASA contract NAS 5-3335. This report, which provides the data for 48 pitot-tube soundings for the period June 1962 through March 1971; represents revisions from the data published earlier, and includes three soundings not published in the reports with the grenade soundings. Because of the revisions, this source was considered preferable to the earlier reports for key punching. The sounding data tabulated in this revision as well as in the earlier reports indicate, however, that latitudinal variations in sea-level gravity had not been accounted for in the calculations. Consequently, only the initial temperature, i.e., the temperature for the greatest height, and the density-height data for the remainder of the sounding were key punched, while the temperatures for all other heights were calculated. Because of this recalculation neither the temperatures nor the pressures of the pitot-tube soundings on the geometric tape agree exactly with comparable values in either the recent summary report or in the older reports.

The calculation of pitot-tube temperatures for the geometric tape involved the conversion of the integer-kilometer geometric heights to the comparable geopotential for the latitude of the sounding followed by the downward integration of the density versus geopotential. This process used with the initial temperature in accordance with a well-known equation and a numerical integration procedure known as the logarithmic tropoidal rule, produced the required pitot-tube temperatures. The calculated temperatures and the related densities for each integer-kilometer geometric height yielded the pressure from gas-law considerations. These processes generated the pitot-tube data for the geometric tape.

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By means of a logarithmic interpolation procedure, the densities corresponding to integer geometric-kilometer heights were converted to values corresponding to integer geopotential-kilometer heights. These data, when subjected to the same downward integration procedure described above yield the pitot-tube temperatures for the geopotential tape. Again, gas-law considerations yielded the appropriate pressures.

Tape #10-461 is a two file tape: The first file consists of the geopotential related data from Tape #10-235 while the second file consists of the geometrically related data of Tape #10-273.

Tape #10-615 is an exact copy of Tape #10-461.

The information needed to access the tapes as well as the format of header and data records is given in memo of 24 July 1974 prepared by Albert West of GTE Information Systems Inc.

*R.A. Minzner*

R. A. Minzner

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PROGRAMMING METHODS  
FEDERAL SYSTEMS DIVISION  
962 WAYNE AVENUE  
SILVER SPRING, MARYLAND 20910  
301 589-8371

July 24, 1974

MEMORANDUM

TO: Dr. R. Minzner  
NASA Goddard Space Flight  
Code 911

FROM: Albert West  
Programming Methods

SUBJECT: Tapes Containing Rocket Sounding Data Versus  
Geopotential Height

Calculations of atmospheric properties Versus Geometric and Geopotential heights have been completed in accordance with your equations and the results recorded on tape. All tapes have been assigned to GSFC programmer ID (SIRAM).

A total of four tapes have been produced. Initially two single file tapes were written, one containing Geopotential related data and one with Geometric related data. Data from these two tapes were copied onto two backup tapes as file 1 and file 2. The tapes were produced on the IBM 360/75 and are standard label, 1600 BPI, 9 track with the following data control block (DCB) subparameters:

RECFM = FB  
LRECL = 80  
BLKSIZE = 3520

Tape numbers and JCL information needed to access the tapes follows:

Tape 10-235: Geopotential file

//TAPEUNIT DD UNIT=9TRACK, DISP=(OLD, KEEP), LABEL=(, , IN),  
// DSN=GRENADE. SOUNDING. GEOPOT, VOL=SER=10-235

Tape 10-273: Geometric file

//TAPEUNIT DD UNIT=9TRACK, DISP=(OLD, KEEP), LABEL=(, , IN),  
// DSN=GRENADE. SOUNDING. GEOMET, VOL=SER=10-273

Tape 10-615 and 10-461: Both of these tapes have two files. File one on each tape is Geopotential related data and file two is Geometric related data.

## File 1:

```
//TAPEUNIT DD UNIT=9TRACK, DISP=(OLD, KEEP), LABEL=(1, , , IN),
// DSN=GRENADE. SOUNDING. GEOPOT, VOL=SER=10-615 or 10-461
```

## File 2:

```
//TAPEUNIT DD UNIT=9TRACK, DISP=(OLD, KEEP), LABEL=(2, , , IN),
// DSN=GRENADE. SOUNDING. GEOMET, VOL=SER=10-615 or 10-461
```

The order of the records as they appear on tape is the same for both Geopotential and Geometric type files. There are two header records, a title record and then a variable number of detail records. The Header records have the same format for both the Geopotential and Geometric files. The format and description of these records are given below.

## First Header Record:

<u>Format</u>	<u>Definition of Variable</u>	<u>Columns</u>
1X	Blank Field of 1 Space	01
5I2	Year, Month, Day, Hour, Minute (GMT) of Sounding	02-11
A2	Launch Site of Sounding	12-13
A1	Technique Letter Code (S=Sound, G=Gage)	14
F6.1	10.7 cm Solar Flux Index Observed on Day Preceding Sounding	15-20
F6.1	10.7 cm Solar Flux Index Observed on Day of Sounding	21-26
F6.2	Local Apparent Time	27-32
F6.1	Sub Solar Angle	33-38
E10.3	Shadow Height Above Launch Site, km	39-48
I3	Highest Altitude of Sounding (Integer), km	49-51
I2	Lowest Altitude of Sounding (Integer), km	52-53
I3	Number of Alt -Data Points in Sounding	54-56
F6.2	Latitude (Degrees) of Launch Site	57-62
F7.2	Longitude (Degrees) of Launch Site	63-69
4X	Blank Field of 4 Spaces	70-73
F6.2	Sounding Number	74-79

## Second Header Record:

<u>Format</u>	<u>Definition of Variable</u>	<u>Columns</u>
1X	Blank Field of 1 Space	01
5I2	Year, Month, Day, Hour, Minute (GMT) of Sounding	02-11
A2	Launch Site of Sounding	12-13
A1	Technique Letter Code (S=Sound, G=Gage)	14
F10.1	Effective Earth Radius at Launch Site (m)	15-24
F8.6	Ratio of Gravity (go/g)	25-32
I3	Ap Geomagnetic Index (-24 hours)	33-35
I3	Ap Geomagnetic Index (-21 hours)	36-38
I3	Ap Geomagnetic Index (-18 hours)	39-41
I3	Ap Geomagnetic Index (-15 hours)	42-44
I3	Ap Geomagnetic Index (-12 hours)	45-47
I3	Ap Geomagnetic Index (-9 hours)	48-50
I3	Ap Geomagnetic Index (-6 hours)	51-53
I3	Ap Geomagnetic Index (-3 hours)	54-56
I3	Ap Geomagnetic Index (current)	57-59
E11.5	Pressure at greatest height (nt/sq meter)	60-70
3X	Blank Field of 3 Spaces	71-73
F6.2	Sounding Number	74-79

## Title Record:

Provides title for each column of data on Geopotential or Geometric file.

## Detail Record for Geopotential File:

<u>Format</u>	<u>Definition of Variable</u>	<u>Columns</u>
F10.0	Geopotential Height in Geopotential Meters	1-10
6X	Field of 6 Blank Spaces	11-16
F6.2	Temperature at given Geopotential height (deg. Kelvin)	17-22
6X	Field of 6 Blank Spaces	23-28
E10.4	Pressure at given geopotential height (nt/sq meter)	29-38
6X	Field of 6 Blank Spaces	
E10.4	Density at given geopotential height (Kg/cubic meter)	45-54

## Detail Record for Geometric File:

<u>Format</u>	<u>Definition of Variable</u>	<u>Columns</u>
F10.0	Geometric Height in geometric meters	1-10
7X	Field of 7 Blank Spaces	11-17
F6.2	Temperature at given geometric height (deg Kelvin)	18-23
6X	Field of 6 Blank Spaces	24-29
E10.4	Pressure at given geometric height (nt/sq meter)	30-39
6X	Field of 6 Blank Spaces	40-45
E10.4	Density at given geometric height (Kg/cubic meter)	46-55
6		
6X	Field of 6 Blank Spaces	56-61
E12.6	Geopotential height (geopotential meters) Corresponding to Geometric height	62-73

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DATA FORMAT

I. Grenade Data

Card #1. Experiment Number, station key, number of data cards to follow, pressure (NT/M<sup>2</sup>) at the altitude listed on the last data card. Latitude (degrees), Latitude (minutes).

The format for this card is:

FORMAT (2X, F10.3, 7X, I3, 14X, E14.3, 11X, F4.2, 6X, F2.0)

The station key is strictly a card identifier and is not read by the computer.

Remaining Cards Altitude (m), Pressure (nt/m<sup>2</sup>), Temperature (°k), Temperature Error (°k), Wind Speed (m/sec), Wind Speed Error (m/sec), Wind Direction (degrees), Wind Direction Error (degrees), Error Key.

The format for these cards is:

FORMAT (F8.1, 4X, E10.3, 5X, 6F5.1, I2)

The card identifiers found at the extreme right-hand side of the card are: month, last three digits of the experiment number, sound ranging array number, year, card number. This data is not read by the computer and is used only for card identification purposes. A few of the data decks have errors in the card numbering. Since this data is not used in the computations, these numeration errors were not corrected.

For all grenade data prior to 1968, the pressure is listed only for the top altitude point and only temperature errors are listed (error code 1). For all grenade data 1968, and 1969, the pressure is listed for each altitude level along with all the errors (error code 2).

II. Pitot Data

Card #1. Experiment Number, station key, number of data cards to follow, Latitude (degrees), Latitude (minutes)

The format for this card is:

FORMAT (19X, I3)

The only parameter read by the computer is the number of data cards to follow. All the rest are merely for card identification.

Remaining Cards. Altitude (m), Pressure (nt/m<sup>2</sup>), Temperature (°k)

The format for these cards is:

FORMAT (F7.0, E15.3, F10.1)

These data cards have the same identifiers at the end as do the grenade data cards.

Station Keys:

A - Ascension  
B - Barrow  
C - Churchill  
N - Natal  
W - Wallops

D-85359

DUMP OF TAPE X-210

7/09/60 - 5/17/72

INPUT TAPE X-210 ON MT1  
DATA INPUT HP OF 2 FL 2 1 1

FILE	1	RECORD	1	LENGTH	350	BYTES
( )	050003F1	F1F000F6	F1F5F040	40404040	40404040	40404040
( 40)	40C14B60	C502E340	40404040	40404040	40404040	40404040

FILE	1	RECORD	3	LENGTH	BYTES
( )	050409F2	C6F0F8F5	F2F5F0F1	F0F8F0F3	F0E9C4C1
( 40)	40404040	40404040	40404040	40404040	40404040

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY	INPUT RETRIES
	1	3	4	PERM ZERO B SHORT UNDEF.	#RECS. TOTAL#

FILE	2	RECORD	7/09/60	3/59/72	352	BYTES
( )	40F0F0F0	F0F0F0F0	F0F0F0F0	F0F0F0F0	C9E24 F1	F7E640F1
( 4)	40F0F0F0	C541F F3	40F0F0F0	F6414 F8	40F3F740	F8F34140
( 80)	40F0F0F0	F7F0F0F0	F3F5F9E6	C9E240F6	F3F5F1F0	F5F640F2
( 120)	F44 40F3	4040F340	40F24040	F34040F3	4040F3F1	40F1F0F1
( 160)	C7C5D0D7	D6E3C9D5	E3C9C1D3	40414140	41E3C5D4	D7414140
( 200)	40404040	4040C4C5	D5E2C9E3	E6404040	40404040	40404040
( 240)	40404040	F2F0F0F0	F7484040	40404040	F2F2F040	F9F54040
( 280)	41414141	F140F3F4	F1F4C551	F0F14141	41414141	41414141
( 320)	4 4 4 4	F2F7F0F0	F1404141	414 4 4	F2F2F540	F1F54141
( 360)	40404040	F040F2F9	F1F2C560	F0F14040	40404040	40404040
( 400)	4 4 4 4	F2F0F0F0	F1404141	414 4 4	F2F3F140	F1F54040
( 440)	4 4 4 4	F140F2F4	F0F3C561	F1F14141	41414141	41414141
( 480)	40404040	F2F5F0F0	F0484040	40404040	F2F3F340	F2F74040
( 520)	40404040	F040F2F1	F2F0C560	F0F14040	40404040	40404040
( 560)	41414141	F3F1F0F0	F1404141	4 4 4 4	F2F3F540	F3F64041
( 600)	41404040	F040F1F5	F2F3C560	F1F14140	414 4 4	4 4 4 4
( 640)	40404040	F3F1F0F0	F0404040	40404040	F2F3F740	F4F94040
( 680)	41414141	F140F1F5	F0F4C561	F1F14141	41414141	40404040
( 720)	41414141	F3F2F0F0	F1404141	4 4 4 4	F2F3F940	F6F14141
( 760)	40404040	F040F1F3	F4F3C560	F0F14040	40404040	40404040
( 800)	40404040	F3F3F0F0	F0434040	40404040	F2F4F140	F7F24040
( 840)	41414141	F140F1F1	F5F6C561	F0F14140	41414141	41414141
( 880)	40404040	F3F4F0F0	F1404141	40404040	F2F4F340	F8F34140
( 920)	40404040	F040F0F9	F5F3C560	F0F24040	40404040	40404040
( 960)	41414141	F3F5F0F0	F1404141	414 4 4	F2F4F540	F9F44040
( 1000)	41414141	F140F0F5	F2F4C561	F1F24141	41414141	40404040
( 1040)	40404040	F3F6F0F0	F0404040	40404040	F2F4F840	F0F64040
( 1080)	40404040	F040F7F4	F1F2C560	F0F24040	40404040	40404040
( 1120)	41414141	F3F7F0F0	F1404141	41414141	F2F5F140	F1F74141
( 1160)	40404040	F140F6F4	F0F3C561	F0F24140	41414141	41414141
( 1200)	40404040	F3F8F0F0	F0404040	40404040	F2F5F240	F2F94040
( 1240)	41414141	F140F5F5	F4F7C561	F1F24141	41414040	40404040
( 1280)	41414141	F3F9F0F0	F1404141	40414140	F2F5F440	F4F14141
( 1320)	40404040	F040F4F8	F0F7C560	F0F24040	40404040	40404040
( 1360)	40404040	F40F0F00	F0404040	40404040	F2F5F640	F5F24040
( 1400)	4 4 4 4	F140F4F1	F7F1C561	F0F24140	41414141	41414141
( 1440)	41414141	F4F1F1F0	F1404141	41414141	F2F5F840	F6F64141
( 1480)	40404040	F040F3F5	F2F3C560	F0F24040	40404040	40404040
( 1520)	4 4 4 4	F4F2F0F0	F1404141	4 4 4 4	F2F6F140	F8F04040
( 1560)	41414141	F140F3F1	F5F0C561	F1F24140	41414141	41414141
( 1600)	40404040	F40F3F00	F0404040	40404040	F2F6F340	F1F44040
( 1640)	40404040	F040F2F7	F4F1C560	F0F24040	40404040	40404040
( 1680)	41414141	F4F4F0F0	F1404141	41414141	F2F6F540	F4F24141
( 1720)	4 4 4 4	F140F2F3	F5F9C561	F0F24141	4 4 4 4	4 4 4 4

DUMP OF TAPE X-210

INPUT TAPE X-21 ON KIT  
DATA INPUT RECFE 2 SK 0 1 3 SK 2 LAST 3

FILE	INPUT RECS.	DATA RECORDS			MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
		INPUT	PARA	ZERO B		SHORT	UNDEF.	#RECS.	TOTAL#		
		yr <sup>2</sup>	no	day	hr	min					
		600	7	9	LE3	54					
					352	BYTES					
( 0 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 40 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 80 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 120 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 160 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 200 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 240 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 280 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 320 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 360 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 400 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 440 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 480 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 520 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 560 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 600 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 640 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 680 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 720 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 760 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 800 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 840 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 880 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 920 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 960 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1000 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1040 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1080 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1120 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1160 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1200 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1240 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1280 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1320 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1360 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1400 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1440 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1480 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1520 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
( 1560 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
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( 1840 )	40404040	F7F64BF0	40F1F7F6	48FC40F2	F24BF8F7	40F1F1F7	48F740F0				
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( 340 )	4040404	F04BF1F6	F3F6C560	F0F34040	4040404	4040404	4040404	4040404	4040404	4040404
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( 387 )	40404040	F0F3F1F0	F14B4040	40404040	F2F2F04B	F5F34040	40404040	F14BF1F2	F9F1C541	F1F24040
( 388 )	40404040	F04BF1F9	F3F6C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 400 )	40404040	F6F4F0F0	F04B4040	40404040	F2F2F04B	F9F14040	40404040	F04BF1F1	F1F1C540	F0F24040
( 440 )	40404040	F14BF1F2	F1F0C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 480 )	40404040	F6F3F1F0	F14B4040	40404040	F2F2F74B	F2F34040	40404040	F14BF2F5	F5F7C540	F1F14040
( 520 )	40404040	F04BF1F4	F6F5C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 560 )	40404040	F6F0F1F0	F04B4040	40404040	F2F2F74B	F6F54040	40404040	F04BF2F2	F2F5C540	F0F14040
( 580 )	40404040	F14BF1F2	F5F0C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 640 )	40404040	F6F7F0F0	F04B4040	40404040	F2F2F64B	F7F94040	40404040	F04BF7F5	F8F2C540	F1F14040
( 680 )	40404040	F04BF1F0	F7F2C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 720 )	40404040	F6F0F1F0	F04B4040	40404040	F2F3F04B	F3F14040	40404040	F04BF6F1	F5F3C540	F0F14040
( 760 )	40404040	F14BF9F2	F3F2C560	F0F44040	40404040	40404040	40404040	40404040	40404040	40404040
( 800 )	40404040	F6F9F0F0	F04B4040	40404040	F2F3F14B	F8F54040	40404040	F04BF5F2	F6F5C540	F0F14040
( 840 )	40404040	F14BF7F9	F1F1C560	F0F44040	40404040	40404040	40404040	40404040	40404040	40404040
( 880 )	40404040	F7F1F0F0	F04B4040	40404040	F2F3F34B	F4F04040	40404040	F14BF4F5	F4F7C540	F1F14040
( 920 )	40404040	F04BF6F2	F8F6C560	F0F44040	40404040	40404040	40404040	40404040	40404040	40404040
( 960 )	40404040	F7F1F0F0	F04B4040	40404040	F2F3F44B	F9F54040	40404040	F04BF3F9	F3F0C540	F0F14040
( 1000 )	40404040	F14BF5F6	F2F7C560	F0F44040	40404040	40404040	40404040	40404040	40404040	40404040
( 1040 )	40404040	F7F2F1F0	F04B4040	40404040	F2F3F64B	F5F14040	40404040	F14BF3F4	F1F0C540	F1F14040
( 1080 )	40404040	F04BF5F0	F0F3C560	F0F44040	40404040	40404040	40404040	40404040	40404040	40404040
( 1120 )	40404040	F2F1F7F0	F2F2F560	C9E24040	F9F64BFO	4040F9F6	40F040F2	F14BF1F7	40F1F3F4	4BF340F0
( 116 )	40404040	F04BF3F2	F5F1F1F4	F14F1F1F1	40F3F74B	F8F34040	F7F54BF4	F8404140	4040F1F0	4BF1F840
( 1200 )	40404040	F2F1F7F0	F2F2F686	C9E240F6	F3F5F1F0	F5F64BF2	F04BF9F9	F9F2F9F7	40F2F240	F2F240F3
( 1240 )	F940F5F6	40F3F940	F1F64040	F940F1F2	4040F0F1	4BF7F9F5	F6F6C540	F0F04040	4040F1F0	4BF0F240
( 1280 )	C7C5D8D7	D6E3C5B5	E3C9C1D3	40404040	40F3C5D4	D7414040	40404040	40D7D9C5	E2E2E4D9	C5404040
( 1320 )	40404040	4040C4C5	D5E2C9E3	E8404040	40404040	40404040	40404040	40404040	40404040	40404040
( 1360 )	40404040	F3F1F0F0	F04B4040	40404040	F2F3F14B	F6F44040	40404040	F04BF1F0	F4F9C540	F1F44040
( 1400 )	40404040	F04BF1F5	F7F7C560	F0F14040	40404040	40404040	40404040	40404040	40404040	40404040
( 144 )	40404040	F3F2F0F1	F04B4040	40404040	F2F3F24B	F9F54040	40404040	F14BF5F1	F5F3C540	F1F34040
( 1480 )	40404040	F14BF1F3	F5F4C560	F0F14040	40404040	40404040	40404040	40404040	40404040	40404040
( 1520 )	40404040	F3F3F0F0	F04B4040	40404040	F2F3F44B	F2F34040	40404040	F04BF7F6	F2F2C540	F0F34040
( 156 )	40404040	F14BF1F1	F5F3C560	F0F14040	40404040	40404040	40404040	40404040	40404040	40404040
( 1600 )	40404040	F3F4F0F0	F04B4040	40404040	F2F3F54B	F6F94040	40404040	F14BF6F7	F6F5C540	F1F34040
( 1640 )	40404040	F04BF9F9	F9F2C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1680 )	40404040	F3F3F0F0	F04B4040	40404040	F2F3F74B	F2F14040	40404040	F04BF5F0	F5F5C540	F5F34040
( 1720 )	40404040	F14BF3F5	F9F9C560	F1F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1760 )	40404040	F3F0F0F1	F14B4040	40404040	F2F3F84B	F7F34040	40404040	F14BF5F0	F7F3C540	F1F34040
( 1800 )	40404040	F04BF7F4	F3F2C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1840 )	40404040	F3F7F0F0	F04B4040	40404040	F2F4F04B	F2F54040	40404040	F04BF4F3	F9F9C540	F0F34040
( 1880 )	40404040	F14BF6F3	F7F6C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1920 )	40404040	F3F0F0F0	F04B4040	40404040	F2F4F14B	F7F34040	40404040	F14BF3F8	F1F0C540	F1F34040
( 1960 )	40404040	F04BF3F5	F0F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2000 )	40404040	F3F9F0F0	F04B4040	40404040	F2F4F34B	F7F44040	40404040	F14BF3F3	F1F7C540	F0F34040
( 2040 )	40404040	F14BF4F7	F4F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2080 )	40404040	F4F0F0F0	F04B4040	40404040	F2F4F74B	F6F44040	40404040	F04BF2F3	F6F7C540	F0F34040
( 2120 )	40404040	F04BF4F0	F6F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2160 )	40404040	F4F1F0F0	F14B4040	40404040	F2F5F54B	F3F74040	40404040	F14BF2F5	F1F9C540	F1F34040
( 2200 )	40404040	F04BF3F4	F6F3C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2240 )	40404040	F4F2F0F0	F04B4040	40404040	F2F5F94B	F3F94040	40404040	F14BF2F2	F0F5C540	F0F34040
( 2280 )	40404040	F14BF2F9	F6F4C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 232 )	40404040	F4F3F0F0	F14B4040	40404040	F2F6F44B	F2F34040	40404040	F14BF1F9	F3F5C540	F1F34040
( 2360 )	40404040	F04BF2F5	F5F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2400 )	40404040	F4F4F0F0	F04B4040	40404040	F2F6F64B	F6F04040	40404040	F04BF1F7	F0F1C540	F0F34040
( 244 )	40404040	F14BF2F2	F2F3C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2480 )	40404040	F4F5F0F0	F04B4040	40404040	F2F6F54B	F9F64040	40404040	F14BF1F4	F9F7C540	F1F34040
( 2520 )	40404040	F04BF1F9	F5F3C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2560 )	40404040	F4F1F0F0	F04B4040	40404040	F2F6F54B	F3F24040	40404040	F04BF1F3	F1F6C540	F0F34040
( 2600 )	40404040	F14BF1F7	F2F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2640 )	40404040	F4F7F0F0	F04B4040	40404040	F2F6F44B	F0F74040	40404040	F04BF1F1	F5F7C540	F1F34040
( 2680 )	40404040	F04BF1F5	F2F3C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2720 )	40404040	F4F0F0F0	F14B4040	40404040	F2F6F34B	F2F94040	40404040	F14BF1F1	F1F7C540	F1F34040
( 2760 )	40404040	F14BF1F3	F4F2C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 2800 )	40404040	F4F0F0F0	F04B4040	40404040	F2F6F24B	F7F64040	40404040	F04BF0F9	F3F7C540	F1F24040

( 282 )	40404040	F048F1F0	F4F5C560	F0F24040	F2F0F14B	F4F04040	40404040	F048F7F8	F4F1C540	F1F24040
( 298 )	40404040	F5F1F0F0	F0484040	40404040	F2F0F040	F1F04040	40404040	F048F6F6	F7F0C540	F0F24040
( 314 )	40404040	F148F5F8	F3F2C560	F1F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 330 )	40404040	F5F2F1F1	F1484040	40404040	F2F5F840	F7F34040	40404040	F148F0F0	F3F1C540	F1F24040
( 346 )	40404040	F048F4F1	F2F1C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 362 )	40404040	F5F3F1F0	F0484040	40404040	F2F5F540	F8F94040	40404040	F048F5F2	F8F2C540	F0F24040
( 378 )	40404040	F148F7F1	F2F1C560	F1F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 394 )	40404040	F5F4F0F0	F0484040	40404040	F2F5F14B	F6F54040	40404040	F048F4F6	F1F7C540	F1F24040
( 410 )	40404040	F248F6F3	F2F1C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 426 )	40404040	F5F5F1F0	F1484040	40404040	F2F4F74B	F4F24040	40404040	F148F4F7	F2F7C540	F1F24040
( 442 )	40404040	F148F5F6	F2F1C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 458 )	40404040	F5F6F0F0	F0484040	40404040	F2F4F34B	F1F64040	40404040	F048F3F5	F0F3C540	F0F24040
( 474 )	40404040	F148F5F1	F1F9C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 490 )	40404040	F5F7F7F1	F1484040	40404040	F2F3F94B	F2F14040	40404040	F148F3F0	F4F1C540	F1F24040
( 506 )	40404040	F048F4F4	F2F1C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040

FILE 2 RECORD 459 LENGTH 3520BYTES

( 522 )	40404040	F0F9F1F1	F1484040	40404040	F2F1F54B	F9F34040	40404040	F148F1F1	F3F1C540	F1F14040
( 538 )	40404040	F148F3F2	F1F2C560	F1F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 554 )	40404040	F9F0F0F0	F0484040	40404040	F2F1F94B	F6F94040	40404040	F048F9F6	F2F5C560	F0F14040
( 570 )	40404040	F148F1F5	F2F1C560	F0F34040	40404040	40404040	40404040	40404040	40404040	40404040
( 586 )	40404040	F0F1F7F1	F7F4F0F7	C2E240F1	F5F840F2	40F1F8F5	40F540F2	F148F2F8	4040F8F5	40F140F0
( 602 )	40404040	40404040	40F9E2F3	E440E2F9	40F2E14B	F3F340F1	F5F640F2	F3404040	4040F1F0	40F3E9F7
( 618 )	40404040	F5F1F7F0	F7F4F0F7	C2E240F6	F3F7F3F4	F3F640F2	F148F0F0	F2F0F4F9	4040F940	F1F24040
( 634 )	40404040	40404040	40F540E1	E540E9	40F1F2E1	40F1F6F5	F6F7C560	F0F14040	4040F1F0	40F3E9F7
( 650 )	40404040	40404040	40F3C9C1F3	40404040	40F3C5D4	D7404040	40404040	40D709C5	E2E2E409	C5404040
( 666 )	40404040	40404040	40F5E2C9E3	E8404040	40404040	40404040	40404040	40404040	40404040	40404040
( 682 )	40404040	F3F4F0F1	F1484040	40404040	F2F4F34B	F9F44040	40404040	F148F7F1	F0F1C540	F0F34040
( 698 )	40404040	F148F1F0	F1F5C560	F0F14040	40404040	40404040	40404040	40404040	40404040	40404040
( 714 )	40404040	F3F5F0F0	F0484040	40404040	F2F4F64B	F4F44040	40404040	F148F6F1	F8F2C540	F1F34040
( 730 )	40404040	F248F1E7	F3F9C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 746 )	40404040	F3F4F7F1	F3484040	40404040	F2F4F24B	F8F44040	40404040	F148F5F3	F8F6C540	F0F34040
( 762 )	40404040	F148F7F2	F3F4C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 778 )	40404040	F3F7F1F0	F0484040	40404040	F2F5F14B	F4F84040	40404040	F048F4F6	F9F1C540	F0F34040
( 794 )	40404040	F048F3F5	F0F5C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 810 )	40404040	F3F0F1F1	F1484040	40404040	F2F5F44B	F1F94040	40404040	F148F4F1	F0F1C540	F1F34040
( 826 )	40404040	F048F5F6	F2F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 842 )	40404040	F3F9F0F0	F0484040	40404040	F2F5F64B	F9F14040	40404040	F048F3F5	F8F7C540	F0F34040
( 858 )	40404040	F148F4F8	F6F9C560	F1F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 874 )	40404040	F4F0F1F1	F1484040	40404040	F2F5F94B	F8F24040	40404040	F148F3F1	F4F2C540	F1F34040
( 890 )	40404040	F048F4F2	F1F3C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 906 )	40404040	F4F1F0F0	F0484040	40404040	F2F6F34B	F1F14040	40404040	F048F2F7	F5F6C540	F0F34040
( 922 )	40404040	F148F2F6	F4F2C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 938 )	40404040	F4F2F3F0	F0484040	40404040	F2F6F74B	F7F34040	40404040	F148F2F4	F2F3C540	F1F34040
( 954 )	40404040	F048F3F1	F5F2C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 970 )	40404040	F4F3F1F0	F1484040	40404040	F2F7F24B	F2F74040	40404040	F048F2F1	F3F4C540	F0F34040
( 986 )	40404040	F148F2F2	F3F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1002 )	40404040	F4F4F0F0	F3484040	40404040	F2F7F54B	F5F74040	40404040	F048F1F6	F6F4C540	F0F34040
( 1018 )	40404040	F048F4F3	F3F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1034 )	40404040	F4F5F1F0	F1484040	40404040	F2F7F64B	F7F54040	40404040	F148F1F6	F0F4C540	F1F34040
( 1050 )	40404040	F148F1F1	F3F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1066 )	40404040	F4F6F0F0	F0484040	40404040	F2F7F74B	F8F94040	40404040	F148F1F3	F0F1C540	F1F34040
( 1082 )	40404040	F048F1F6	F1F9C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1098 )	40404040	F4F7F0F0	F0484040	40404040	F2F0F14B	F0F04040	40404040	F048F1F1	F5F1C540	F0F34040
( 1114 )	40404040	F148F1F4	F2F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1130 )	40404040	F4F8F1F0	F1484040	40404040	F2F7F74B	F8F14040	40404040	F148F1F1	F1F9C540	F1F34040
( 1146 )	40404040	F048F1F2	F6F9C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1162 )	40404040	F5F1F1F1	F1484040	40404040	F2F7F74B	F9F74040	40404040	F048F9F0	F1F4C540	F0F24040
( 1178 )	40404040	F5F1F0F0	F0484040	40404040	F2F7F64B	F2F54040	40404040	F148F7F9	F6F7C540	F1F24040
( 1194 )	40404040	F048F1F0	F2F1C560	F0F24040	40404040	40404040	40404040	40404040	40404040	40404040
( 1210 )	40404040	F5F2F1F1	F1484040	40404040	F2F7F54B	F0F24040	40404040	F148F7F1	F7F7C540	F1F24040





