#648

AD-10B

ADVANCED MICROWAVE MOISTURE SOUNDER (AMMS)
ADVANCED MULTICHANNEL MICROWAVE RADIOMETER DATA (AMMR)
ELECTRICALLY SCANNING MICROWAVE RADIOMETER DATA (ESMR)
INERTIAL NAVAGATION SYSTEM DATA (INS)

BERING SEA STUDIES ON TAPE

No New I.D. Number

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

REQ. AGENT	RAND NO.	ACQ. AGENT
GLS	V0313	CYN

AD-10B

No New I.D. Number

BERING SEA STUDIES ON TAPE

ADVANCED MICROWAVE MOISTURE SOUNDER (AMMS)

ADVANCED MULTICHANNEL MICROWAVE RADIOMETER DATA (AMMR)

ELECTRICALLY SCANNING MICROWAVE RADIOMETER DATA (ESMR)

INERTIAL NAVAGATION SYSTEM DATA (INS)

THIS DATA SET CONSISTS OF 3 MAGNETIC DATA TAPES. THESE TAPES ARE 9 TRACK, BINARY FORMATTED AND ARE MULTIFILED. THE ESMR, INS DATA TAPE IS 1600 BPI, AND THE AMMR AND AMMS DATA TAPES ARE 6250 BPI. THESE TAPES WERE CREATED ON AN IBM 3081 COMPUTER. THE D AND C NUMBERS AND THE TIME SPAN ARE AS FOLLOWS:

D#	C#	TIME SPAN	
D-66737	C-26035	02/01/83 - 02/22/83	(AMMS)
D-66738	C-26036	02/07/83 - 02/24/83	(AMMR)
D-66739	C-26037	02/07/83 - 02/24/83	(ESMR) FILES 1-8
			(INS) FILES 9-18

* FOR MIZEX-W SMMR TCT (BRIGHTNESS TEMPERATURE) AND SMMR MAP (SEA ICE CONCENTRATIONS), REFER TO NSSDC ID 78-098A-08X AND 78-098A-08b, RESPECTIVELY.

MATERIALS FOR DISTRIBUTION:
B36642-000A: NASA CV-990 FLIGHT REPORT
B36853-000A: NASA CV-990 AND NIMBUS SMMR DATA DOCUMENTATION FOR MIZEX-WEST

B36853-000

NASA CV-990 and Nimbus-7 SMMR Data Documentation for MIZEX-West

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Abstract

The NASA Convair-990 airborne laboratory made a series of flights over the Bering Sea during February 1983 as part of the Bering Sea Marginal Ice Zone Experiment (MIZEX-West). The experiment was an intensive field study of the oceanography, meteorology, and sea ice properties of the marginal ice zone utilizing surface vessels, aircraft, and satellites. A key element of the microwave remote sensing portion of the experiment was the coordination of the NASA aircraft flights with the Nimbus-7 spacecraft over a two-week period. This report provides documentation of the NASA CV-990 and Nimbus-7 SMMR data obtained during MIZEX-West. The data, which are currently archived at the National Space Science Data Center, NASA Goddard Space Flight Center, Greenbelt, Maryland, include: the NASA CV-990 navigation data; the passive microwave measurements, including both the imaging and fixed-beam radiometer data; the infrared PRT-5 radiometer measurements; the aerial photography; and the Nimbus-7 SMMR derived sea ice concentrations.

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1. Introduction

The NASA Convair-990 airborne laboratory made a series of seven flights from February 10 through February 22, 1983 over the Bering Sea as part of the Bering Sea Marginal Ice Zone Experiment (MIZEX-West). Although the flights covered a large portion of the Bering Sea, the study focused on a region in the vicinity of St. Matthew Island. The objective of the remote sensing portion of these flights was to examine the properties of the Bering Sea marginal ice zone with airborne passive microwave radiometers in the frequency range 10 to 183 GHz and in particular to explore the potential of the higher frequencies for improving sea ice concentration determinations from space platforms (Refs. 1-2). The aircraft was equipped with both imaging and fixed-beam passive microwave radiometers ranging from 1.5 millimeter to 3 centimeter in wavelength. Visual, photographic and infrared surface observations were also made from the aircraft to complement the microwave observations.

The coordination of the CV-990 flight lines with the USCG icebreaker WESTWIND located in the Bering Sea pack ice, with the NOAA R/V DISCOVERER situated at the ice edge, and with the NOAA research aircraft WP-3D provided mesoscale data for a comprehensive study of the regional air-sea-ice interactions (Ref. 3) and surface radiometric data for comparison with the satellite and aircraft observations (Ref. 4). Part of the overall aircraft operations plan called for coordination between the CV-990 flights and overpasses by the Nimbus-7 Scanning Multichannel Microwave Radiometer (SMMR). The coordinated aircraft and satellite observations were used to validate and to provide the data for improving current sea ice algorithms. For the purpose of providing a timely large-scale view of the entire Bering Sea region, special arrangements were made with the Nimbus Project Office at the NASA Goddard Space Flight Center to have the Scanning Multichannel Microwave Radiometer (SMMR) aboard the Nimbus 7 spacecraft in operation during the NASA CV-990 flights. In addition, arrangements were also made with the Canadian Atmospheric Environment Service to provide near real-time sea ice concentration contour plots based on SMMR observations for aircraft flight planning purposes.

This report first gives a brief description of the NASA CV-990 instrumentation and data support system, the Nimbus-7 SMMR instrument and the algorithm used to convert from the SMMR radiances to sea ice concentrations. Second, it presents the computer tape documentation which appear in the Appendices. Specific aircraft flight information associated with the MIZEX-WEST mission, including a flight summary for each of the CV-990 flights , maps of the flight tracks, a summary of each day's objective including the latitude, longitude, time in GMT, and altitude for each of the data runs are given in the MIZEX-West flight report (Ref. 1). The flight report also gives the Nimbus-7 daytime orbit crossing of the Bering Sea for each day the CV-990 was flown. Some of the early results of the experiment have been reported (Ref. 1,2,4,5).

2. Aircraft Instrumentation

This section briefly describes the NASA Convair 990 airborne laboratory instrumentation and support systems during the 1983 MIZEX-West mission.

2.1 Airborne Digital Data Acquisition System (ADDAS)

ADDAS provided both real-time and digitally recorded aircraft flight, navigation, and experimenters' instrument data. This includes data from the Inertial Navigation System (LTN-51) which provides Julian day, time (GMT), latitude, longitude, ground speed, true heading, wind speed and direction, pressure and radar altitude, pitch and roll, IR radiometer and air temperature. Experiments comments made during the flight are also included.

2.2 Aircraft

Electrically Scanned Microwave Radiometer (A/C ESMR)

The A/C ESMR operates at a frequency of 19.35 GHz (1.55 cm). Its antenna scans electrically from 50° to the left through nadir to 50° to the right of the aircraft track in 39 steps. The scan period is adjustable from 0.8 to 16 seconds. The angular resolution at nadir is 2.8° giving a resolution of 1/20 of the aircraft altitude.

2.3 Advanced Microwave Moisture Sounder (AMMS)

The AMMS is a mechanically scanned imaging microwave radiometer. It measures at 92 GHz and at three frequencies separated by 2, 5, and 9 GHz from the 183 GHz water vapor line. It has a 15 cm reflector which provides a 2° beamwidth at 92 GHz and a 1° beamwidth at 183 GHz. This provides a resolution at nadir of 1/30 of altitude at 92 GHz. Although the nominal resolution at 183 GHz is 1/60 of the altitude, the scan rate is not sufficient to exploit this resolution. The programmable scan was stepped from 45° to the left through nadir to 45° to the right in 50 steps of 1.8° each at 3 second intervals.

2.4 Aircraft Multichannel Microwave Radiometer (AMMR)

This set of radiometers measures at 10.7, 18, 21, and 37 GHz viewing at 45° to the right of nadir and at 21 and 37 GHz viewing 22° to the right of zenith. All the down-viewing radiometers except 21 GHz are dual polarized; the 21 GHz radiometer measures vertical polarization only. The 10.7 GHz radiometer time-shares a single receiver between the two polarizations. All the radimeters except the 10.7 GHz use a noise diode calibration scheme and mount in the passenger compartment windows of the CV-990 aircraft. All the AMMR radiometers have antennas with 6° beamwidths. At the 45° view angle this produces a resolution of 1/7 of the aircraft altitude along the flight direction and 1/5 of the altitude perpendicular to the flight track.

2.5 Infrared Radiometer

Infrared Surface (IRS) Radiometer (PRT-5) with a field-of-view of 2° and a spectral band of 9.5 to 11.5 microns (nadir viewing) provided surface and cloud top temperatures calibrated in degrees centrigrade. These data are provided along with the aircraft housekeeping data (ADDAS).

2.6 Aerial Photography

A nadir viewing KS-87B camera with a 3-inch lens provided a 73° field-of-view. A second KS-87B camera was mounted at an angle of 45° to the right of nadir, was equipped with a 6-inch lens and provided a 37° field-of-view. During each of the data runs on each flight the cameras were run automatically and were timed to give a 10% overlap between frames. Each camera used a black and white 5-inch format film. The ground resolution at an altitude of 30,000 feet is approximately 3 feet and 4 feet for the side-viewing and nadir-viewing cameras respectively.

3. Nimbus-7 Scanning Multichannel Microwave Radiometer (SMMR)

The Nimbus-7 SMMR measures microwave radiances at five wavelengths (0.81, 1.43, 1.67, 2.81, and 4.55 cm) at both horizontal and vertical polarizations. A summary of the instrument operating characteristics is given by Gloersen and Barath (Ref.6). The spatial resolution of the SMMR is frequency dependent with the highest resolution obtained from the 0.81 cm wavelength channels. The 0.81 cm radiometer which has an integrated field-of-view of 27 X 32 km^2, measures both horizontal and vertical polarizations on each half scan, while the longer wavelength radiometers measure alternate polarizations on each half scan. This over sampling permits the 0.81 cm radiances to be mapped on a 15 X 15 km^2 grid, but with some loss of observational independence resulting from the overlap of adjacent 27 X 32 km^2 footprints. It is for these reasons that the 0.81 cm radiance measurements are used for obtaining sea ice concentration values. The vertically-polarized data are used for the purpose of minimizing the errors introduced by the presence of thin ice in the calculation of the ice concentration.

The algorithm used for converting the 0.81 cm vertically-polarized radiances (usually expressed as a brightness temperature) to ice concentration is a simple linear interpolation between two vertically-polarized 0.81 cm brightness temperatures, one corresponding to ice-free ocean and the other to consolidated sea ice. The expression for ice concentration is given by

$$C = (T_B - T_{BO})/(T_{BI} - T_{BO})$$

where T_B is the observed brightness temperature within the field-of-view of the instrument and T_{BO} and T_{BI} are the ice-free ocean and consolidated sea ice brightness temperatures, respectively. The values for T_{BO} and T_{BI} chosen for the Bering Sea region are 200 K and 245 K. These values are based on an analysis of brightness temperature histograms generated for each day of February 1983.

4. References

1. Cavalieri, D. J. and P. Gloersen, MIZEX-West NASA CV-990 Flight Report, NASA TM 85020, 1983

2. MIZEX-West Study Group, MIZEX-West: Bering Sea Marginal Ice Zone Experiment, EOS, Transactions, American Geophysical Union, October 4, 1983.

3. Cavalieri, D. J. and J. E. Overland, NASA/NOAA MIZEX-West Report 1983: Aircraft Operations Plan, 1983.

4. Cavalieri, D. J., P. Gloersen, T. T. Wilheit, and C. Calhoon, Passive Microwave Characteristics of the Bering Sea ice cover during MIZEX-West, Proceedings of IGARSS'84 Symposium, Strasbourg, August 27-30, 1984, ESA SP-215, published by ESA Scientific & Technical Publications Branch in August 1984.

5. J. A. Gagliano, J. J. McSheehy and D. J. Cavalieri, Performance of an airborne imaging 92/183 GHz radiometer during the Bering Sea Marginal Ice Zone Experiment (MIZEX-West), Proceedings of SPIE - The International Society for Optical Engineering, Millimeter Wave Technology II, Volume 423, 164-170, 1983.

6. Gloersen, P., and F. T. Barath, A scanning multichannel microwave radiometer for NIMBUS G and Seasat-A, IEEE J. Ocean Eng., OE-2, 172-178, 1977.

APPENDIX A

NASA CV-990 Aicraft ESMR Data Format

CV-990 AIRCRAFT ESMR DATA FORMAT

1. a) The Electrically Scanning Microwave Radiometer ESMR data are contained in 9 files on a 9-track tape, written at a density of 1600 bpi on an IBM 3081 in Binary. The DCB parameters are:

DCB=(RECFM=FB, LRECL=172, BLKSIZE=17200, DEN=3)

b) Each file represents the contents of one track on the original tape cartridge used to store the flight data. Between tracks are time gaps ranging from a few seconds to over one hour. These data are lost and are unretrievable. The number of records per file varies with the length of the flight.

c) All data are written as "REAL" data as follows:

IBM unformated I/O (with no extra bytes specifying length of block or record)

Each record contains 43 Real*4 (4 byte/32 bit) words:

1	2	3-41	42	43
Day of year	time (GMT) HHMMSS.	39 pixels of T_B's (K)	cold cal**	warm cal**

** Arbitrary units.

Each record can be read on an IBM machine using A-Format + equivalence statement (Assume tape is on LOGICAL UNIT #10)

```
REAL*4          DATA(43)

LOGICAL*1       IN(172)

EQUIVALENCE     (DATA(1), IN(1))
.
.
.

    READ (10,101) IN
101 FORMAT (172A1)

.
.
.
```

The records are read using an A-format into array IN are real numbers in Array Data using the equivalence statement, process array DATA as needed.

2. There are a number of bad times on Day 46; these can be fixed by suitable interpolation. Nominally, each scan represents 2 seconds' worth of data.

3. Inertial Navagation System INS Data (NAV)

INS data occupies files 10-18 on the tape, (LRECL (880) BLKSIZE (31680)). Day 38, 41, 43, 46, 49, 50, 52, 53, and 54. Each record contains 11 seconds of nav data, 40 words per second: NAV (40,11). Only the 1st 22 words of nav. data are useful. Apart from time, altitude and hygrometer data, navigation data is updated every 2 seconds, 0's being recorded otherwise.

Words 1 thru 22 given below: The data is written as integer *2 data, i.e. 16-bit binary words, using the same unformatted WRITE commands as for the ESMR data.

01	Year of Flight (1983)
02	Day-of-Year (365)
03	GMT Hour (23)
04	GMT Minutes and Seconds (5959)
05	Degrees of Latitude (-89)
06	Minutes & Tenths of Latitude (-599)
07	Degrees of Longitude (-179)
08	Minutes & Tenths of Longitude (-599)
09	Pressure Altitude in Meters
10	Radar Altitude in Meters
11	Pitch Degrees & Tenths (31)
12	Roll Degrees & Tenths (899)
13	Static Air Temp Celsius Degrees & Tenths (-410)
14	Surface IR Temp Celsius Degrees & Tenths (-410)
15	Wind Direction in Degrees from North (275)
16	Wind Speed in Knots (35)
17	2-Stage Hygrometer Celsius Degrees & Tenths (-315)
18	3-Stage Hygrometer Celsius Degrees & Tenths (-305)
19	Ground Speed (Kts) (360)
20	Aircraft Track angle (0°N) in Degrees & Tenths (2202)
21	True Heading Degrees and Tenths (2212)
22	Flight # (20)
23-40	Information not used.

4.

ESMR Data File	1	2	3	4	5	6	7	8	9
Day	38	41	43	46	49	50	52	53	54

INS Data File	10	11	12	13	14	15	16	17	18
Day	38	41	43	46	49	50	52	53	54

APPENDIX B

NASA CV-990 Aircraft AMMS Data Format

The basic Advanced Microwave Moisture Sounder (AMMS) record contains 330 Real * 4 words (1,320 bytes) describing one channel's observations for a given 22-second calibration cycle. There are four records for each cycle, representing observations for all four channels (Table 1). The data are in the form of calibration brightness temperature, along with relevant calibration values (Table 2).

Table 1: AMMS Channel

Channel #	Freq. (GH_Z)
1	183±2
2	183+5
3	183±9
4	92±2

The AMMS tape is 6250 BPI, Density = 4, fixed block with logical record length of 248 and a block size of 32736. The number of records per file varies with the length of the flight. The tape contains six files.

File Number	Day
1	32
2	41
3	43
4	44
5	52
6	53

TABLE 2

Calibrated Brightness Temperature Tape Format (For Each Channel)

Item	Year/Contents	Sample Value
1	Year, Day-of-year	83,038.0
2	Greenwich Time	180,212.0
3	Channel Number	4.0 = 92 GHz
4	# Pixel/Scan (50) Number of Scans (06)	5,006.0
5	Scan 1 ID	1.0
6-55	Scan 1 T_B Values	255.3°K
56	Scan 1 Mean	263.8°K
57	Scan 1 SD	5.6°K
58	Scan 2 ID	2.0
59-108	T_B Values	-
109, 110	Mean, SD	-
111	Scan 3 ID	3.0
112-161	T_B Values	-
162, 163	Mean, SD	-
164	Scan 4 ID	4.0
165-214	T_B Values	-
215,216	Mean, SD	-
217	Scan 5 ID	5.0
218-267	T_B Values	-
268, 269	Mean, SD	-
270	Scan 6 ID	6.0
271-320	T_B Values	-
321-322	Mean, SD	-

Item	Year/Contents	Sample Value
323	Spare	-
324	Calibration Constant A (Intercept)	53.470
325	Calibration Constant B (Slope)	0.11262
326	Cold Load Temperature (Kelvins)	255.0
327	Warm Load Temperature (Kelvins)	334.2
328	Cold Load Voltage (Arbitrary Units)	2,739.0
329	Warm Load Voltage (Arbitrary Units)	3,442.3
330	Spare	-

APPENDIX C

NASA CV-990 Aircraft AMMR Data Format

One Advanced Multichannel Microwave Radiometer record contains data from an eleven second cycle of observations. There are two types of data within each record; inertial navigation data (400 Integer * 2 words) followed by 80 unused bytes, followed by AMMR observations (130 REAL * 4 words), comprising a total of 1,400 bytes. Each type is subdivided within the record as follows:

There are 40 separate items of navigation data for each one second period (40 x 11 = 440). There these data should be incorporated into an Integer * 2 array dimensioned (40, 11). They are described in Table 1.

There are ten separate items of AMMR data contained in a REAL * 4 array dimesioned (13, 10). Rows 1 and 13 are reserved for calibration voltages and Rows 2-12 contain one-second averaged brightness temperatures for the various channels. When there is no observation in a particular channel for a given second, the no-data value of -999.0 has been recorded. Because the same radiometer was used for the 10.7H and 10.7V observations, this required switching between the two polarization states so whenever data is present in one of these channels, the other channel has a value of -999.0 (This status was originally indicated by modes 5 or 7 in the raw data stream). These data are described in Table 2.

The AMMR data tape is 6250 bpi, density = 4, fixed block with a logical record length of 1400 and a block size of 28000. It is written in Binary. The number of records per file varies with the length of the flight.

Each record can be read on an IBM machine using A-format and equivalence statement (assume tape on logical unit #10)

```
REAL * 4 AMMR (13, 10)

INTEGER * 2 INS (440)

LOGICAL * 1 INDAT (1400)

EQUIVALENCE (AMMR(1,1), INDAT(881)), (INSC(1), INDAT(1))
.
.
.
READ (10, 101) INDAT
101 FORMAT (1400A1)
.
.
.
```

The Tape contains nine files.

File number	day
1	38, 1983
2	41
3	43
4	44
5	49
6	50
7	52
8	53
9	54

TABLE 1

Inertial Navigation Data (INS) (40,11)

INS Word	Description	INS Word	Description
1	Year of Flight (1983)	21	True Heading (62) (°from N in tenths)
2	Day of Year (365)	22	Integer Flight Number
3	GMT Hours (23)	23	SPARES
4	GMT Minutes/Sec (5,959)	24	"
5	Deg. of Lat. (-89)	25	"
6	Minutes + 10ths lat. (-599)	26	"
7	Degrees of Long. (-179)	27	"
8	Minutes and 10ths of long. (599)	28	"
9	Pressure alt. in meters	29	"
10	Radar alt. in meters	30	"
11	Pitch (degree in tenths)(31)	32	"
12	Roll (degrees in tenths)(899)	32	"
13	Static Air Temp. (0.1°C)(-410)	33	"
14	Single IR Temp. (0.1°C)(-410)	34	"
15	Wind Air (degrees from north) (275)	35	"
16	Wind Speed (Kts) (35)	36	"
17	Two-stage hygrometer (0.1°C) (-315)	37	"
18	Three-stage (-305)	38	"
19	Ground sp (kts) (400)	39	"
20	Track heading (°from N)(63)	40	"

TABLE 2

Structure of AMMR Data Array (13, 10)

Row Column	Word 1	Words 2-12	Word 13
1/day of yr.	DDD	DDD	DD (13)
2/time	HHMMSS (1)	HHMMSS (2-12)	HHMMSS (2-12)
3/mode*	0/6	5/7	0/6
4/10H	Actual Cal. Voltages (V)	Calibrated T_B (°K)	Smoothed Cal. Voltages (V)
5/10V	"	"	"
6/18H	"	"	"
7/18V	"	"	"
8/21V	"	"	"
9/37H	"	"	"
10/37V	"	"	"

*Mode 0 = Cold Cal

6 = Warm Cal

5, 7 = Data Mode

APPENDIX D

Nimbus-7 SMMR Sea Ice Concentration Data Format

The standard products of the sea ice task are polar stereographic maps of the polar regions. These maps are stored as 293*293 pixel arrays in one file of 294 records on data tapes. This is a description of these tapes.

The Tape Characteristics are:
1600 Bits per inch
Density = 3
Record format is fixed block (FB), EBCDIC characters.
Logical Record Length = 1475,
Block size = 1475
Each file contains 294 records

Each file on the tape contains a map stored as follows:
The first record is a header.

Word#	Description
1	Projection type (1 for polar sterographic)
2	Number of columns (293)
3	Number of rows (293)
4	Scale (15) (units of 10**5)
5	Latitude Enclosed (-50 for Southern Hemisphere, 50 for North)
6	Greenwich orientation (270 for Southern Hem, 45 for north
7	Radius of Earth in pixels (402) REAL = (402.5)
8	J Coordinate of Pole (292) Real = (292.50)
9	I Coordinate of Pole (292) Real = (292.50)
10+11	Data Type: (not used)
12	Start Time (Day)
13	Start Time (Hour)
14	Start Time (Minute)
15	End Time (Day)
16	End Time (Hour)
17	End Time (Minute)
18	Year Data was Collected
19	Data Format (2) (not used)
20	Channel (137 = 37 GHz vertical)
21-293	Unused

The data values are written as arrays of 293 EBCDIC values. There are 293 data records per map. The "J" value is the record number. The "I" value is the column number. Ice concentrations are the fraction of the pixel covered with sea ice.

To retrieve ice concentration values, assume tape is on unit 10
Integer*2 IDAT (293), Ihead (20)
Real Con (293,293)
.
.
.

```
 C Read Header
   Read (10,905) (Ihead(I), I=1,20)

   905 Format (20I5)
 .
 .
 .
 C Read Data
   DO 200 J=1,293
   Read (10,900)(Idat(I),I=1,293)

DO 100 I = 1,293
   CON (I,J)=Idat(I)/6250. - 1.2
    .
100 Continue
    .
200 Continue


900 Format (255I5,38I5)
```

Land values are stored as 7250, so that the convert to negative ice concentrations, missing data values are stored as 0.

The tape contains 17 files:

File	data from day
1	day 31, 1983
2	33
3	35
4	37
5	39
6	41
7	43
8	45
9	47
10	49
11	50
12	51
13	52
14	53
15	55
16	57
17	59

The following routine may be used to find the I and J pixel location in the 293X293 grid from a latitude and longitude where

Rlat: Input latitude (+ for northern hemisphere
- for southern hemisphere)
Rlong: Input west longitude
RI: Output column number
RJ: Output row number
I and J are found with I=1, J=1 being the upper left hand corner of the map.
Ascale: Scaling factor = 1.25
CntrI: I coordinate of pole = 292.5
CntrJ: J coordinate of pole = 292.5

```
Subroutine Coord(RLAT, RLONG, RI, RJ, ASCALE, CNTRI, CNTRJ)
REAL *4 RLAT, RLONG, RI, RJ, D, ASCALE, CNTRI, CNTRJ, DEGRAD   -
DATA DEGRAD/.017453/

C  This Subroutine gives array coordinates I and J that Correspond
C  to the input RLAT and RLONG values
C
C
     D=402.5*(2.50/Ascale)*Tan (DEGRAD*(90-ABS(RLAT)))/2.)
     If (RLAT.LT.0) GO TO 1600

C
C    North Pole Calculations
C
     RI=CNTRI+D*COS((-RLONG+45)*DEGRAD)
     RJ=CNTRJ+D*SIN((-RLONG+45)*DEGRAD)
     GO TO 1700

C
C    South Pole Calculations
C
1600 RI=CNTRI-D*COS(-RLONG*DEGRAD)
     RJ=CNTRJ+D*SIN(-RLONG*DEGRAD)
C
1700 RETURN
     END
```

DUMP OF TAPE GAILIN2

D66737
02/01/83 -02/22/83

INPUT TAPE GAILIN2 ON HT1
DATA INPUT FB NF=1/0 SR=1=1=1 SR=8=1=1

83032

FILE 1 RECORD 1 LENGTH 32736BYTES

(0)	4514458[illegible]	452CDC5C	4225C962	C27A9C28	431497FF	43148999	4426E630	4125F800	41CADA00	C24B36E4
(40)	4514458[illegible]	452CDC6B	42D79F20	42CFB140	42CE3B80	42CDB5D0	42CEB390	42C8C120	42CBBA60	42C54910
(80)	42C5C7F[illegible]	42C34DA0	42BFD590	42C05470	42C646D0	42C3CC80	42C7C370	42C44B60	42C54910	42C74490
(120)	42C3CC80	42CDB5D0	42D22BA0	42C7C370	42C54910	42CA3DC0	42C84250	42C6C5B0	42C84250	42CCB810
(160)	42CC3930	42C94000	42CD36F0	42C74490	42C7C370	42C8C120	42C6C5B0	42C9BEE0	42CABCA0	42CA3DC0
(200)	42CFB140	42C84250	42C54910	42C8C120	42C84250	42CA3DC0	42CCB810	42CD36F0	42C84250	42D1ACC0
(240)	42CDB5D0	42D32950	45144580	452CDC9D	4225CAAA	C27A9C28	4314D4CC	4314C999	4426DCBB	41281400
(280)	41ABEA00	C24B34B3	45144580	452CDC9F	42D72040	42D12DE0	42D12DE0	42CABCA0	42CD36F0	42C9BEE0
(320)	42C7C370	42C94000	42C6C5B0	42C4CA40	42C74490	42C24FE0	42C9BEE0	42C74490	42C3CC80	42BFD590
(360)	42C3CC80	42C54910	42C34DA0	42C5C7F0	42CCB810	42C3CC80	42C6C5B0	42C7C370	42C7C370	42C94000
(400)	42CBBA60	42C54910	42C9BEE0	42CA3DC0	42C84250	42CB3B80	42CB3B80	42C54910	42CD36F0	42CB3B80
(440)	42C7C370	42C9BEE0	42CB3B80	42CBBA60	42C74490	42CBBA60	42C94000	42CABCA0	42CBBA60	42CF3270
(480)	42CC3930	42D12DE0	42D0AF[illegible]0	42CFB140	45144580	452CDCDE	4225CCCC	C27A9DDD	4314F4CC	4314E7FF
(520)	4426D8C3	41292200	418DAE[illegible]0	C24B36E4	45144580	452CDCD4	42D22BA0	42D32950	42CF3270	42CC3930
(560)	42CA3DC0	42CD36F0	42C5C7F0	42C646D0	42C94000	42C74490	42C34DA0	42C34DA0	42C74490	42C646D0
(600)	42C9BEE0	42C74490	42C44B60	42C54910	42C34DA0	42C54910	42C7C370	42C8C120	42CD36F0	42C7C370
(640)	42CB3B80	42C5C7F0	42C54910	42C7C370	42C94000	42C9BEE0	42CABCA0	42C5C7F0	42C94000	42CCB810
(680)	42C54910	42CA3DC0	42CF3270	42CB3B80	42C74490	42CDB5D0	42C94000	42CBBA60	42C7C370	42CD36F0
(720)	42CCB810	42CD36F0	42CFB140	42D524D0	42D12DE0	42D32950	45144580	452CDCFF	4225CDA7	C27A9E4B
(760)	43150199	4314F7FF	4426DA98	41297C00	417DDC00	C24B3B46	45144580	452CDF8B	42D4A5F0	42D32950
(800)	42D1ACC0	42CD36F0	42D[illegible]3020	42CBBA60	42C94000	42C646D0	42C74490	42C5C7F0	42C5C7F0	42C2CEC0
(840)	42C24FE0	42C3CC80	42C44B60	42C84250	42CA3DC0	42C6C5B0	42C7C370	42CB3B80	42C7C370	42C9BEE0
(880)	42C94000	42C84250	42CD36F0	42C54910	42C94000	42CB3B80	42CABCA0	42C7C370	42CA3DC0	42CCB810
(920)	42C9BEE0	42C8C120	42C8C120	42C8C120	42C94000	42C94000	42CEB390	42C9BEE0	42CE34B0	42CBBA60
(960)	42CE34B0	42C94000	42C940[illegible]0	42CF3270	42CCB810	42D1ACC0	42D1ACC0	42CF3270	45144580	452CDFC0
(1000)	4225CEEF	C27A9F92	431514CC	43150999	4426DDA5	41286F00	41610800	C24B3FA8	45144580	452CDFBF
(1040)	42CF3270	42D4A5F0	42CDB5D0	42CB3B80	42CC3930	42C84250	42CABCA0	42C5C7F0	42C94000	42C54910
(1080)	42C44B60	42C7C370	42C9BEE0	42C3CC80	42C5C7F0	42C6C5B0	42C94000	42C9BEE0	42C8C120	42C646D0
(1120)	42C9BEE0	42C9BEE0	42C940[illegible]0	42C9BEE0	42CD36F0	42C94000	42C94000	42CB3B80	42C9BEE0	42CABCA0
(1160)	42C7C370	42CA3DC0	42CBBA60	42CDB5D0	42C7C370	42C84250	42C646D0	42C7C370	42CD36F0	42C44B60
(1200)	42C646D0	42C84250	42C84250	42C7C370	42C9BEE0	42CA3DC0	42CABCA0	42CD36F0	42CC3930	42D2AA80
(1240)	45144580	452CE902	4225D0A3	C27A9F92	431527FF	43152665	4426D875	41297C00	41492000	C24B463B
(1280)	45144580	452CDFF4	42CF3270	42CFB140	42CFB140	42C6C5B0	42C8C120	42CB3B80	42C84250	42CB3B80
(1320)	42C646D0	42C6C5B0	42C6C5B0	42C84250	42CA3DC0	42C74490	42C74490	42C54910	42C5C7F0	42C54910
(1360)	42C34DA0	42C54910	42C940[illegible]0	42C74490	42C8C120	42C94000	42C84250	42C7C370	42CB3B80	42CEB390
(1400)	42C94000	42CD36F0	42C940[illegible]0	42C94000	42C84250	42C4CA40	42C74490	42C84250	42C7449C	42C8C120
(1440)	42C7C370	42C24FE0	42C74490	42C94000	42C4CA40	42CABCA0	42C3CC80	42CA3DC0	42CBBA60	42CABCA0
(1480)	42CEB390	42D1ACC0	45144580	452CE043	4225D258	C27AA0DA	43153B32	43153199	4426D604	4129D600
(1520)	41389A00	C24B36E4	45144580	452CE04B	42D5DE60	42D36F60	42D00740	42CBA5E0	42CAACB0	42CD9840
(1560)	42CBA5E0	42CAACB0	42C7C110	42C7C110	42C7C110	42C7C110	42CE9170	42C83DB0	42C55220	42CC2270
(1600)	42C6C7E0	42C6C7E0	42C64B50	42D1F9A0	42CBA5E0	42CBA5E0	42C8BA40	42CAACB0	42CC9F10	42CBA5E0
(1640)	42C83DB0	42C8BA40	42C83DB0	42C9B370	42CA3010	42C83DB0	42CD9840	42CC2270	42CBA5E0	42CD1BA0
(1680)	42CD1BA0	42CD9840	42C74480	42CE9170	42CC2270	42CBA5E0	42CC2270	42CBA5E0	42CD1BA0	42C83DB0
(1720)	42CF8AA0	42CC2270	42CF8AA0	42D36F60	45144580	452CE084	4225D40D	C27AA222	43154199	431537FF
(1760)	4426D0D4	412A3000	41276000	C24B3D77	45144580	452CE07F	42D46890	42D00740	42D00740	42C83DB0
(1800)	42C82940	42C9B370	42C9B370	42C74480	42C936E0	42C6C7E0	42CBA5E0	42C7C110	42C7C110	42CC2270
(1840)	42C7C110	42C83DB0	42C8BA40	42C6C7E0	42C936E0	42D3EC00	42C9B370	42CD9840	42CF0E00	42CF8AA0
(1880)	42D17D00	42C64B50	42CC2270	42CBA5E0	42CC2270	42C8BA40	42CD1BA0	42CE9170	42C55220	42C9B370
(1920)	42CE14D0	42CA3010	42CAACB0	42CD9840	42CC2270	42C83DB0	42C64B50	42CA3010	42CD9840	42CA3010
(1960)	42C9B370	42CF8AA0	42CC9F10	42CE14D0	42D5DE60	42D36F60	45144580	452CE0A5	4225D47A	C27AA222
(2000)	431544CC	43153CCC	4426D393	412C4C00	4121C000	C24B3FA8	45144580	452CE0B4	42D36F60	42CF8AA0
(2040)	42D36F60	42C936E0	42CC9F10	42CA3010	42C83DB0	42C8BA40	42C7C110	42C83DB0	42C8BA40	42C55220
(2080)	42C6C7E0	42C74480	42C5CEB0	42CAACB0	42CD1BA0	42C8BA40	42CC9F10	42C6C7E0	42C83DB0	42C9B370
(2120)	42CBA5E0	42C83DB0	42CA3010	42C83DB0	42CD9840	42CBA5E0	42CD9840	42CD9840	42CD9840	42CD9840
(2160)	42C9B370	42C7C110	42CC9F10	42C5CEB0	42C8BA40	42C74480	42C8BA40	42CAACB0	42C83DB0	42C55220
(2200)	42C9B370	42CD9840	42C936E0	42CD1BA0	42D083D0	42CBA5E0	42D561D0	42D3EC00	45144580	452CE0E6
(2240)	4225D62F	C27AA28F	43154999	43154199	4426D086	412D0000	4116DA00	C24B3915	45144580	452CE0EB

DUMP OF TAPE GLS2

INPUT TAPE GLS2 ON HT1
DATA INPUT H9 NF=6 SR=6=1=1

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	23	23	32736	0	0	0	0	0	0

FILE 6 RECORD 83053 1 LENGTH 32736BYTES

(0)	451446D0	452F88E5	423D4000	C295CDA7	43113B32	43113B32	4322E78C	C0816000	C0492000	C1573D20
(40)	451446D0	452F88DB	43121FD2	4312097C	4311A4F8	43121FD2	43122AFD	4311DCCF	43123628	43118EA1
(80)	4312097C	4311C679	4311E7FB	4311F326	4311DCCF	4311B023	4311D1A4	4311B023	431199CD	43118376
(120)	4312097C	43121FD2	43129AAD	43124C7F	4311784B	431257AA	43133709	431156CA	43121FD2	4312792B
(160)	4312DDAF	4312A5D8	431257AA	4312097C	43124154	431262D5	43131587	4312BC2E	4312C759	43122AFD
(200)	43129AAD	4312E8DB	43129AAD	43124154	4312B103	431257AA	43126E00	43121A47	4312792B	4311C679
(240)	43121FD2	4311FE51	451446D0	452F8905	423D4000	C295CDA7	43112332	43112332	4322FFF6	C0B40000
(280)	C0A32000	4313B853	451446D0	452F890F	4311D1A4	4311E7FB	4312097C	431214A7	4311FE51	43123628
(320)	4311B023	431199CD	431199CD	4311C679	4311C679	43123628	4311B023	431161F5	43113548	43118376
(360)	431156CA	43116D20	4311B023	4312A5D8	43121FD2	4312097C	431161F5	43129AAD	4312E8DB	4311B023
(400)	43121FD2	43124154	43132B0D	431257AA	43123628	431257AA	4311E7FB	43129AAD	43128F82	4311BB4E
(440)	431257AA	43129AAD	43129AAD	43124154	43122AFD	43129AAD	4312792B	4312792B	431262D5	43128456
(480)	43123628	431199CD	4311DCCF	43124154	451446D0	452F8945	423D4000	C295CDA7	43110199	43110199
(520)	4322E2AA	C0AE6000	C09D8000	43137BEE	451446D0	452F8944	4312097C	4311F326	4311A4F8	4311DCCF
(560)	431199CD	4311E7FB	4311B023	4311B023	4311C679	431214A7	431156CA	43121FD2	43118EA1	4312097C
(600)	43118EA1	431199CD	43116D20	4311A4F8	4311A4F8	43121FD2	4312097C	4311BB4E	4311089C	4312792B
(640)	4312F406	43121FD2	4312097C	43122AFD	43124C7F	431262D5	431262D5	43123628	4311E7FB	431262D5
(680)	4312792B	43126E00	4312A5D8	43128F82	431257AA	4312BC2E	4312C759	43123628	4312BC2E	43122AFD
(720)	43124154	43121FD2	43121FD2	4311FE51	43123628	43122AFD	451446D0	452F8985	423D4000	C295CDA7
(760)	431ECCC	4310ECCC	4323137E	C0A32000	C0B40000	4313464F	451446D0	452F897B	4311D1A4	431199CD
(800)	43114074	43124154	4311E7FB	4311DCCF	4311DCCF	43116D20	43114074	43114074	43116D20	4311FE51
(840)	4311FE51	431156CA	431156CA	43118376	431161F5	43112A1D	43118EA1	4311F326	43123628	43118376
(880)	431DBEF	4311FE51	43124154	43121FD2	4311C679	43128F82	4312B103	43124154	43121FD2	431262D5
(920)	4311D1A4	431262D5	4312BC2E	4312792B	4312BC2E	431262D5	4312BC2E	4312B103	4312792B	431262D5
(960)	4311FE51	43123628	43122AFD	4311F326	4311F326	4311F326	4311A4F8	4312097C	451446D0	452F89A5
(1000)	423D4000	C295CDA7	4310E4CC	4310E4CC	4322DDC8	C0B40000	C0870000	431335DA	451446D0	452F89AF
(1040)	4311B023	43114074	43118EA1	4312097C	4311B023	4311B023	4311C679	43118376	4311A4F8	4311B023
(1080)	4311B023	4311F326	43118376	4311BB4E	43114074	43118376	431156CA	43113548	43118EA1	4311DCCF
(1120)	4312097C	431199CD	43116D20	4311FE51	43126E00	4312097C	4311DCCF	4312BC2E	43121FD2	4311F326
(1160)	43124154	4312097C	431214A7	43123628	4312BC2E	4312792B	4312BC2E	43129AAD	4312792B	43129AAD
(1200)	4312BC2E	43124C7F	43129AAD	4311DCCF	4311DCCF	4311DCCF	43122AFD	4311C679	4311B023	4311BB4E
(1240)	451446D0	452F89E5	423D4000	C295CDA7	4310D7FF	4310D7FF	43229E4E	C0B9A000	C0B40000	431302AD
(1280)	451446D0	452F89E4	431161F5	431156CA	4311A4F8	4311B023	4311FE51	43116D20	43114B9F	431113C7
(1320)	43118376	43114074	431113C7	431156CA	43118376	43112A1D	43111EF2	431113C7	43113548	4311089C
(1360)	43112A1D	4311B023	4311F326	431161F5	43113548	431161F5	431257AA	431199CD	4311F326	43123628
(1400)	431214A7	43121FD2	43123097C	4311C679	4311F326	43124C7F	43123628	43122AFD	4312B103	431262D5
(1440)	4312792B	431262D5	43126E00	43121FD2	4311FE51	43121FD2	431257AA	4311E7FB	4311DCCF	43118376
(1480)	4311C679	4311C679	451446D0	452F8A45	423D4000	C295CDA7	4310D999	4310D999	4322DDC8	C0DB6000
(1520)	C0CA8000	4312A756	451446D0	452F8A4B	4311B1D5	4311DB91	43119CF7	43126DA5	431243E8	4312054E
(1560)	43119CF7	4311E601	4311C6B3	4311DB91	43118819	4311A766	43118819	43118819	43118819	4311FADF
(1600)	4311D122	43111553	43119288	4311E601	4312054E	4311DB91	43117DAA	431243E8	43128283	4311E601
(1640)	4311F070	43127814	43126335	43126DA5	43123979	431243E8	43122F0A	4312C11D	4312AC3F	43121A2C
(1680)	43126335	43126335	43124E57	43126335	4312054E	431243E8	43122F0A	43122F0A	431258C6	43128283
(1720)	43120FBD	4311F070	43120FBD	43123979	451446D0	452F8A85	423D4000	C295CDA7	43110199	43110199
(1760)	432330CA	C0708000	C0924000	4312783B	451446D0	452F8A7F	43120FBD	4311D122	4311FADF	43122F0A
(1800)	43115E5D	4311BC44	4311D122	43118819	4311BC44	43119288	43115E5D	4311B1D5	43119CF7	43115E5D
(1840)	43118819	431168CC	43110AC4	431153ED	4311B1D5	4311F070	4311DB91	4311BC44	4311B1D5	431243E8
(1880)	43126335	431168CC	4311F070	4312CB8C	43128283	43122498	4312054E	43121A2C	431168CC	43124E57
(1920)	43126335	43126DA5	43128283	43124E57	43126335	43127814	43126335	43128CF2	431258C6	43123979
(1960)	4311E601	43123979	4311E601	43123979	4311E601	4311B1D5	451446D0	452F8AA5	423D4000	C295CDA7
(2000)	43113FFF	43113FFF	4322F632	C0870000	C0CA8000	43126A42	451446D0	452F8AB4	4311E601	431168CC
(2040)	4311733B	4311B1D5	4311E601	4311D122	43118819	43115E5D	431153ED	4311BC44	43119CF7	4311B1D5
(2080)	43117DAA	431134A0	43112A31	431153ED	431134A0	43117DAA	43119288	4311A766	4311DB91	4311BC44
(2120)	43111EC2	4311C6B3	43128CF2	43113E0E	4311C6B3	4311BC44	43120548	4311FADF	43126335	43120FBD

```
 1      //XRKFHAM1 JOB (F7008,B22,9),AMMRREAD,TIME=(2,29)                          JOB 4345
 2      //FORT  EXEC FORTVC,PARM='NOFIPS,XREF,MAP'                                 00000020
 3      XXFORTVC   PROC FVPGM=FORTVS,FVREGN=1200K,FVPDECK=NODECK,                 00000100
        XX              FVPOLST=NOLIST,FVPOPT=0,FVTERM='SYSOUT=*',                00000200
        XX              FVLNSPC='3200,(25,6)',OUT='*'                             00000300
        ***                                                                       00000400
        ***             PARAMETER  DEFAULT-VALUE     USAGE                        00000500
        ***                                                                       00000600
        ***               FVPGM    FORTVS            COMPILER NAME                00000700
        ***               FVREGN   1200K             FORT-STEP REGION             00000800
        ***               FVPDECK  NODECK            COMPILER DECK OPTION         00000900
        ***               FVPOLST  NOLIST            COMPILER LIST OPTION         00001000
        ***               FVPOPT   0                 COMPILER OPTIMIZATION        00001100
        ***               FVTERM   SYSOUT=*          FORT.SYSTERM OPERAND         00001200
        ***               FVLNSPC  3200,(25,6)       FORT.SYSLIN SPACE            00001300
        ***                                                                       00001400
 4      XXFORT   EXEC  PGM=&FVPGM,REGION=&FVREGN,COND=(4,LT),                     00001500
        XX             PARM='&FVPDECK,&FVPOLST,OPT(&FVPOPT)'                      00001600
 5      XXSTEPLIB      DD DSN=SYS1.FORTVS,DISP=SHR                                00001650
 6      XXSYSPRINT     DD SYSOUT=&OUT,DCB=BLKSIZE=3429                            00001700
 7      XXSYSTERM      DD &FVTERM                                                 00001800
 8      XXSYSPUNCH     DD SYSOUT=B,DCB=BLKSIZE=3440                               00002100
 9      XXSYSLIN       DD DSN=&&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA,               00002200
        XX             SPACE=(&FVLNSPC),DCB=BLKSIZE=3200                          00002300
        *** 05/10/84 XRKSB CHANGE OUTPUT TO '*'
10      //SYSIN  DD DSN=XRKFH.CELL.FORT(AMMREAD),DISP=SHR                         00000030
11      //LINK  EXEC LINKV                                                        00000040
12      XXDEFAULT PROC OUT='*',TERMOUT='*',NBLK=40,                               00010001
        XX          OPTION=                                                       00020001
13      XXLINK   EXEC  PGM=IEWL,REGION=264K,COND=(4,LT),        *ESL/14JUN79     00030001
        XX           PARM='MAP,LIST,&OPTION'                                      00040001
14      XXNEWLIN    DD DUMMY                                                      00050000
15      XXSYSLIB    DD DSN=SYS1.DUMMY,DISP=SHR                                    00060000
16      XX          DD DSN=SYS1.DUMMY,DISP=SHR                                    00070000
17      XX          DD DSN=SYS1.VFORTLIB,DISP=SHR                                 00090001
18      XX          DD DSN=SYS2.VFORTLIB,DISP=SHR
19      XX          DD DSN=SYS2.FORTLIB,DISP=SHR                                  00100000
20      XX          DD DSN=SYS1.PL1LIB,DISP=SHR                                   00110000
21      XX          DD DSN=SYS1.FORTSSP,DISP=SHR                                  00120000
22      XX          DD DSN=SYS2.COBLIB,DISP=SHR                                   00130000
23      XX          DD DSN=SYS1.ALGLIB,DISP=SHR                                   00140000
24      XXSYSLMOD   DD DSN=&&LODMOD(GSFC),UNIT=DISK,SPACE=(6144,(&NBLK,20,1)),    00150000
        XX             DISP=(NEW,PASS)                                            00160000
25      XXSYSPRINT DD SYSOUT=&OUT,DCB=(RECFM=FBM,LRECL=121,BLKSIZE=3509)          00170000
26      XXSYSTERM  DD SYSOUT=&TERMOUT                                             00180000
27      //SYSUT1 DD UNIT=VIO                                                      00000060
        X/SYSUT1    DD UNIT=(DISK,SEP=(SYSLMOD,SYSPRINT)),SPACE=(CYL,(1,1))     00190000
28      XXTAPELIB   DD DUMMY,DISP=(OLD,KEEP),UNIT=(6250,,DEFER),LABEL=(,BLP),     00200000
        XX             DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)                       00210000
29      XXSYSLIN    DD DSN=&&LOADSET,DISP=(MOD,DELETE),DCB=RECFM=FB,              00220001
        XX    UNIT=DISK,SPACE=(TRK,0)                                             00220002
30      XX          DD DDNAME=OBJECT                                              00240000
31      XXSYSUDUMP DD SYSOUT=A                                                    00250000
        *** *UPDATED 03/24/81 BY ZBESL                                            00260000
        *** *UPDATED 05/07/84 BY XRRJP - CHANGED OUT AND TERMOUT TO DEFAULT TO
        ***                             THE MSGCLASS SETTING
32      //  EXEC GO,STEP=LINK,REGION=800K                                         00000070
33      XXDEFAULT  PROC     OUT='*',BLKSIZE=7265,STEP=                            00000101
34      XXGO EXEC PGM=*.&STEP..LINK.SYSLMOD,                                      00000201
        XX             COND=(4,LT),REGION=70K                                     00000301
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35      XXFT05F001 DD DDNAME=DATA5                                              00000401
36      XXFT06F001 DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE)    00000501
37      XXFT07F001 DD SYSOUT=B,DCB=(RECFM=FB,LRECL=80,BLKSIZE=7280)             00000601
38      XXSYSPRINT DD SYSOUT=&OUT,UNIT=(3350,3),SPACE=(CYL,(0,1)),              00000701
        XX            DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE)                00000801
39      XXSYSUDUMP DD SYSOUT=A,SPACE=(CYL,(0,5))                                00000901
        *** 05/10/84 XRDMS CHANGE OUT=A TO OUT=*                                00001001
40      //FT10F001  DD UNIT=(6250,,DEFER),LABEL=(1,NL,,IN),                     00000100
        //       DISP=(SHR,KEEP),VOL=SER=L499,                                  00000110
        //       DCB=(RECFM=FB,LRECL=1400,BLKSIZE=28000,DEN=4,BUFNO=2)          00000120
41      //DATA5 DD *                                                            00000130
42      //NOTE  EXEC NOTIFYTS,USRID=XRKFH                                       00000150
43      XXDEFAULT  PROC MODE=,USRID=,MSG=,USERID=,ID=,Q=''''                    00010001
44      XXNOTIFYTS EXEC PGM=NOTIFY,REGION=64K,COND=EVEN,                        00020000
        XX         PARM='&USRID&USERID&ID'                                      00030000
45      XXSYSUDUMP DD SYSOUT=A                                                  00040000
        ***                                                                     00040100
        ***   THE FOLLOWING TWO DDCARDS ARE TO RESOLVE UNSUPPORTED PARAMETERS   00040200
        ***                                                                     00040300
46      XXDUMMY    DD DUMMY,DSN=&Q&MODE&Q                                       00041001
47      XX         DD DUMMY,DSN=&Q&MSG&Q                                        00042001
```

DATA FROM FILE 1

1983	38	19	5745	0	0	0	0	5	15
-8	-5	-451	322	0	0	0	199	0	0
0	0	40	3	6	145	124	10613	8	2
682	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5746	37	250	-122	-30	4	15
-8	-5	-451	322	67	112	0	199	8	681
681	2	38	7	0	151	94	10624	8	2
690	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5747	0	0	0	0	4	14
-9	-5	-450	321	0	0	0	199	0	0
0	0	31	0	0	138	84	10614	-24	-2
671	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5748	37	250	-122	-30	2	14
-8	-4	-451	321	68	111	0	203	8	683
683	2	35	4	0	126	81	10584	0	0
669	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5749	0	0	0	0	5	15
-7	-6	-450	320	0	0	0	203	0	0
0	0	42	6	0	134	69	10606	-5	0
683	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5750	37	250	-122	-30	3	15
-8	-4	-451	320	68	111	0	203	8	685
685	2	47	3	0	134	61	10608	10	0
678	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5751	0	0	0	0	5	15
-7	-5	-451	319	0	0	0	203	0	0
0	0	33	5	0	134	57	10610	0	3
683	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5752	37	250	-122	-30	5	16
-7	-4	-452	319	68	112	0	200	8	686
686	2	35	6	1	129	55	10622	13	1
672	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5753	0	0	0	0	5	15
-8	-5	-451	317	0	0	0	198	0	0
0	0	33	1	0	128	56	10617	7	0
664	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5754	37	250	-122	-30	5	15
-8	-5	-451	315	68	112	0	198	8	684
684	2	33	5	-14	130	55	10623	-11	0
675	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5755	0	0	0	0	4	15
-7	-6	-451	315	0	0	16934	0	17711	-13808
16736	0	16656	0	17202	-17295	17202	-17295	17200	23438
17209	-911	17187	-20480	17189	-32086	17195	27761	17190	19569
38.00195746.00	7.00	1.00	-125.24	-999.00	169.86	226.37	231.59	202.50	231.13	-999.00	-999.00
38.00195747.00	7.00	1.00	-205.68	-999.00	160.60	216.36	225.78	197.38	226.00	-999.00	-999.00
38.00195748.00	7.00	1.00	-236.02	-999.00	159.16	213.43	213.57	188.35	218.51	-999.00	-999.00
38.00195749.00	7.00	1.00	-209.75	-999.00	162.67	216.17	219.67	185.92	222.02	-999.00	-999.00
38.00195750.00	7.00	1.00	-194.41	-999.00	154.15	208.59	211.49	182.33	216.35	-999.00	-999.00
38.00195751.00	7.00	1.00	-201.95	-999.00	164.60	219.08	222.16	193.82	224.49	-999.00	-999.00
38.00195752.00	7.00	1.00	-220.94	-999.00	165.15	219.62	221.00	187.77	225.19	-999.00	-999.00
38.00195753.00	7.00	1.00	-155.05	-999.00	160.34	216.14	218.04	183.84	221.61	-999.00	-999.00
38.00195754.00	7.00	1.00	-149.73	-999.00	165.82	221.72	221.17	188.47	225.77	-999.00	-999.00
38.00195755.00	7.00	1.00	-148.10	-999.00	183.99	237.72	240.12	208.54	242.01	-999.00	-999.00
1983	38	19	5756		37	250	-122	-30	5	15	

-7	-6	-452	315	67	112	0	201	8	682	
682	2	38	1	0	132	24	10626	16	4	
650	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5757	0	0	0	0	5	15	
-7	-5	-452	315	0	0	0	201	0	0	
0	0	42	2	0	131	-3	10644	12	9	
683	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5758	37	250	-122	-30	6	14	
-8	-5	-450	313	67	111	0	201	8	679	
679	2	38	0	-2	132	14	10643	5	0	
676	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5759	0	0	0	0	5	16	
-8	-4	-451	312	0	0	0	201	0	0	
0	0	37	5	2	138	-8	10657	-10	-1	
696	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5800	37	250	-122	-30	4	15	
-8	-4	-452	311	67	110	0	201	8	676	
676	2	41	7	1	142	-6	10658	-7	0	
673	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5801	0	0	0	0	4	15	
-8	-4	-451	311	0	0	0	201	0	0	
0	0	36	2	5	139	-16	10660	0	0	
673	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5802	37	250	-122	-30	4	15	
-9	-4	-452	310	66	111	0	201	8	672	
656	2	38	8	0	140	-24	10668	-8	0	
669	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5803	0	0	0	0	4	15	
-8	-4	-451	309	0	0	0	201	0	0	
0	0	39	2	4	142	-34	10672	14	8	
687	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5804	37	250	-122	-30	7	14	
-9	-5	-452	308	63	110	0	198	8	616	
616	2	42	0	17	150	-48	10656	-4	0	
672	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5805	0	0	0	0	9	14	
-10	-3	-451	307	0	0	0	198	0	0	
0	0	30	0	0	144	-70	10660	-22	-1	
673	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5806	37	250	-122	-30	6	14	
-9	-4	-450	307	57	109	16934	0	17711	-13632	
0	0	16656	0	17377	-23666	17377	-23666	17441	-31104	
17437	-15432	17452	-25046	17447	26424	17452	-1096	17430	26396	
38.00195757.00	5.00	1.00	-999.00	109.34	166.34	222.52	223.16	183.41	224.93	-999.00	-999.00
38.00195758.00	5.00	1.00	-999.00	5.02	169.34	224.19	228.91	190.20	230.31	-999.00	-999.00
38.00195759.00	5.00	1.00	-999.00	48.00	162.29	218.06	221.87	181.17	223.09	-999.00	-999.00
38.00195800.00	5.00	1.00	-999.00	-7.66	158.40	214.06	216.98	174.60	219.46	-999.00	-999.00
38.00195801.00	5.00	1.00	-999.00	26.78	151.71	206.61	212.77	165.85	216.28	-999.00	-999.00
38.00195802.00	5.00	1.00	-999.00	91.77	164.97	221.03	219.53	184.43	225.28	-999.00	-999.00
38.00195803.00	5.00	1.00	-999.00	42.74	168.45	224.46	227.76	186.38	228.75	-999.00	-999.00
38.00195804.00	5.00	1.00	-999.00	87.58	154.38	209.44	217.18	178.36	219.22	-999.00	-999.00
38.00195805.00	5.00	1.00	-999.00	43.82	173.27	226.58	226.37	194.37	230.72	-999.00	-999.00
38.00195806.00	5.00	1.00	-999.00	3.25	160.87	214.75	220.53	184.62	220.79	-999.00	-999.00
1983	38	19	5807	0	0	0	0	6	14	
-8	-5	-451	306	0	0	0	198	0	0	
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6514	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5808	37	250	-122	-30	5	14	
-10	-3	-451	304	50	107	0	999	9	519	
519	2	26	2	-14	130	-100	10640	3942	1688	

6887	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5809	0	0	0	0	5	15
-10	-5	-450	305	0	0	0	999	0	0
0	0	30	0	0	121	-106	10648	4683	1564
6866	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5810	37	250	-122	-30	5	15
-6	-4	-451	303	45	110	0	999	9	433
433	2	44	12	0	122	-98	10662	4645	1520
6896	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5811	0	0	0	0	4	15
-7	-1	-451	303	0	0	0	999	0	0
0	0	3286	87	-8945	134	-92	10665	4904	1468
6891	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5812	37	251	-122	-30	4	15
-8	0	-451	303	35	108	999	999	9	320
320	2	3323	-17	-8872	143	-77	10688	4689	1436
6896	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5813	0	0	0	0	3	15
-8	0	-452	301	0	0	999	999	0	0
0	0	3336	14	-8714	137	-104	10686	4900	1415
6884	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5814	37	251	-122	-30	2	15
-10	-8	-450	301	23	108	999	999	9	200
200	2	3260	-11	-8763	130	-123	10672	4923	1406
6868	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5815	0	0	0	0	2	14
-9	-7	-451	299	0	0	999	999	0	0
0	0	3426	6	-8541	129	-116	10682	4846	1405
6898	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5816	37	251	-122	-30	2	14
-10	-9	-452	298	10	109	999	999	9	73
73	2	3479	-19	-8537	125	-123	10658	4714	1402
6878	0	0	-999	-999	-999	-999	-999	-999	-999
1983	38	19	5817	0	0	0	0	3	14
-9	-2	-451	298	0	0	16934	0	17711	-12816
16736	0	16656	0	17201	-29810	17201	-29810	17425	2090
17332	-21391	17185	5233	17189	-4779	17194	-26624	17195	-228
38.00195808.00	7.00	1.00	-106.83	-999.00	182.31	238.29	230.16	203.79	233.99	-999.00	-999.00
38.00195809.00	7.00	1.00	-179.32	-999.00	176.05	231.56	235.28	204.77	233.91	-999.00	-999.00
38.00195810.00	7.00	1.00	-159.14	-999.00	173.43	228.78	228.87	197.01	230.87	-999.00	-999.00
38.00195811.00	7.00	1.00	-207.44	-999.00	144.64	198.50	206.23	183.31	209.50	-999.00	-999.00
38.00195812.00	7.00	1.00	-112.79	-999.00	163.43	219.50	214.53	196.20	221.21	-999.00	-999.00
38.00195813.00	7.00	1.00	-153.57	-999.00	190.01	239.98	233.61	215.46	238.44	-999.00	-999.00
38.00195814.00	7.00	1.00	-86.65	-999.00	207.32	249.22	249.63	240.36	250.06	-999.00	-999.00
38.00195815.00	7.00	1.00	-20.84	-999.00	199.33	250.03	247.19	231.50	251.07	-999.00	-999.00
38.00195816.00	7.00	1.00	-106.68	-999.00	193.64	246.83	247.06	230.52	249.35	-999.00	-999.00
38.00195817.00	7.00	1.00	-101.21	-999.00	180.93	237.11	236.67	218.07	242.03	-999.00	-999.00
1983	38	19	5818		37	251	-122		-30	3	15
-8	-3	-450	296		348	110	999		999	9	3553
3553	2	3579	14		-8370	112	-127		10651	5000	1417
6878	0	0	-999		-999	-999	-999		-999	-999	-999
1983	38	19	5819		0	0	0		0	5	15
-9	-1	-450	296		0	0	999		999	0	0
0	0	3616	0		-8343	111	-125		10660	4737	1421
6888	0	0	-999		-999	-999	-999		-999	-999	-999
1983	38	19	5820		37	251	-122		-30	4	15
-8	-1	-450	296		340	111	999		999	9	3459
3394	2	3654	2		-8250	112	-127		10670	4912	1417
6879	0	0	-999		-999	-999	-999		-999	-999	-999
1983	38	19	5821		0	0	0		0	3	15

-8	0	-450	295	0	0	999	999	0	0	
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6881	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5822	37	251	-122	-30	4	15	
-8	0	-451	295	336	112	999	999	8	3379	
3379	2	3744	13	-8303	113	-126	10677	4718	1440	
6910	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5823	0	0	0	0	4	15	
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0	0	3789	15	-8279	111	-123	10684	5019	1477	
6828	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5824	37	251	-122	-30	4	15	
-7	0	-451	293	336	111	999	999	9	3369	
3369	2	3882	22	-8258	119	-126	10680	5023	1448	
6898	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5825	0	0	0	0	3	14	
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6884	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5826	37	251	-122	-30	3	15	
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3373	2	3907	0	-8120	126	2954	10655	4801	1490	
6886	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5827	0	0	0	0	3	15	
-8	0	-452	290	0	0	999	999	0	0	
0	0	3952	-36	-8192	132	676	10658	4737	1488	
6881	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	38	19	5828	37	251	-122	-30	4	15	
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0	0	16656	0	17378	-29355	17378	-29355	17441	-26070	
17437	-9743	17452	31616	17445	-12957	17452	-6685	17430	6144	
38.00195819.00	5.00	1.00	-999.00	151.71	184.14	236.55	235.21	202.51	235.97	-999.00	-999.00
38.00195820.00	5.00	1.00	-999.00	154.73	171.67	226.20	222.58	194.47	226.07	-999.00	-999.00
38.00195821.00	5.00	1.00	-999.00	144.91	196.55	248.01	243.74	219.47	247.16	-999.00	-999.00
38.00195822.00	5.00	1.00	-999.00	148.32	193.13	246.10	245.43	216.14	248.00	-999.00	-999.00
38.00195823.00	5.00	1.00	-999.00	132.73	188.81	243.17	241.62	213.43	244.43	-999.00	-999.00
38.00195824.00	5.00	1.00	-999.00	143.72	173.41	228.90	233.83	200.53	235.73	-999.00	-999.00
38.00195825.00	5.00	1.00	-999.00	147.91	165.58	220.30	218.26	195.96	225.84	-999.00	-999.00
38.00195826.00	5.00	1.00	-999.00	134.62	182.95	237.92	235.34	208.13	240.53	-999.00	-999.00
38.00195827.00	5.00	1.00	-999.00	141.12	184.03	239.46	238.49	208.27	242.98	-999.00	-999.00
38.00195828.00	5.00	1.00	-999.00	140.25	182.23	237.74	237.95	207.50	240.97	-999.00	-999.00
1983	38	19	5829		0	0	0	0	3	15	
-11	0	-450	288		0	0	999	999	0	0	
0	0	4005	0		-8148	135	684	10660	5038	1508	
6876	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	38	19	5830		37	251	-122	-30	3	13	
-12	0	-451	287		337	111	999	999	9	3373	
3373	2	4029	-2		-8129	131	686	10650	4930	1509	
6889	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	38	19	5831		0	0	0	0	3	14	
-12	0	-450	288		0	0	999	999	0	0	
0	0	4079	-2		-8123	128	673	10644	5020	1518	
6896	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	38	19	5832		37	251	-122	-30	4	14	
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DATA FROM FILE 2

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DATA FROM FILE 3

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6908	0	0	-999	-999	-999	-999	-999	-999	-999
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DATA FROM FILE    4

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DATA FROM FILE 5

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DATA FROM FILE    6

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DATA FROM FILE 7

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DATA FROM FILE 8

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-5	-8	-593	292	279	108	174	999	9	2804
2804	17	2881	-40	-4179	1006	-11460	10476	4760	2003
6904	0	0	-999	-999	-999	-999	-999	-999	-999
1983	53	19	4733	0	0	0	0	170	24
-4	-6	-593	292	0	0	174	999	0	0
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6903	0	0	-999	-999	-999	-999	-999	-999	-999
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6913	0	0	-999	-999	-999	-999	-999	-999	-999
1983	53	19	4735	0	0	0	0	171	23
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17438	17834	17452	-2475	17454	22983	17451	-31944	17433	17934
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1983	53	19	4746	61	150	-149	-482	171	23
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53.00194737.00	7.00	1.00	284.17	-999.00	215.26	242.85	245.43	230.24	251.42	-999.00	-999.00
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1983	53	19	4807	0	0	0	0	173	23	
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1983	53	19	4808	61	150	-149	-482	173	23	
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17205	-14109	17187	29354	17193	-30720	17195	-19343	17200	16839	
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DATA FROM FILE 9

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1983	54	21	5200	0	0	0	0	326	22	
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54.00215152.00	5.00	1.00	-999.00	263.77	239.60	251.93	258.88	234.79	250.69	-999.00	-999.00
54.00215153.00	5.00	1.00	-999.00	261.71	233.33	248.94	258.02	232.53	249.09	-999.00	-999.00
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54.00215156.00	5.00	1.00	-999.00	271.71	232.82	248.44	258.49	239.18	251.08	-999.00	-999.00
54.00215157.00	5.00	1.00	-999.00	271.31	235.76	251.34	258.30	235.84	249.84	-999.00	-999.00
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-2	-2	-599	319		326	111	999	999	6	3254	
3254	18	2106	10		-6244	1825	-13096	10490	4590	1912	
6903	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5202		0	0	0	0	326	22	
-2	-3	-598	319		0	0	999	999	0	0	
0	0	2110	8		-6258	1813	-13092	10475	4585	1927	
6920	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5203		61	150	-149	-482	326	22	
-3	-2	-598	318		321	110	999	999	6	3197	
3197	18	2185	0		-6279	1818	-13092	10478	4579	1933	
6902	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5204		0	0	0	0	326	22	
-4	-3	-598	317		0	0	999	999	0	0	
0	0	2234	18		-6364	1832	-11455	10462	4589	1932	
6905	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5205		61	150	-149	-482	327	22	
-3	-3	-597	316		310	109	999	999	6	3141	
3141	18	2248	-31		-6343	1837	-11450	10493	4584	1954	
6909	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5206		0	0	0	0	326	23	
-3	-2	-598	316		0	0	999	999	0	0	
0	0	2275	1		-6313	1824	-11457	10492	4589	1931	
6887	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5207		61	150	-149	-482	326	22	
-3	-5	-598	315		305	110	999	999	6	3089	
3036	18	2311	-3		-6338	1815	-11450	10469	4590	1961	
6906	0	0	-999		-999	-999	-999	-999	-999	-999	
1983	54	21	5208		0	0	0	0	326	22	

-4	-5	-597	314	0	0	999	999	0	0	
0	0	2326	0	-6275	1813	-11459	10488	4593	1971	
6920	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5209	61	150	-149	-482	326	23	
-3	-3	-598	313	299	110	999	999	6	2981	
2981	18	2364	9	-6439	1836	-11463	10483	4592	1966	
6912	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5210	0	0	0	0	327	22	
-2	-3	-598	312	0	0	999	999	0	0	
0	0	2359	5	-6333	1832	-11453	10481	4592	1967	
6899	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5211	61	150	-149	-482	326	22	
-3	-4	-598	311	294	112	16950	0	17716	-30192	
16736	0	16656	0	17196	1137	17196	1137	17187	6144	
17203	-4779	17187	8647	17195	8874	17196	-11378	17202	-5462	
54.00215202.00	7.00	1.00	280.49	-999.00	234.11	251.48	261.31	236.41	251.62	-999.00	-999.00
54.00215203.00	7.00	1.00	259.50	-999.00	239.19	252.36	261.63	239.47	251.88	-999.00	-999.00
54.00215204.00	7.00	1.00	275.98	-999.00	240.11	254.47	263.07	240.32	253.80	-999.00	-999.00
54.00215205.00	7.00	1.00	262.81	-999.00	236.59	251.61	260.70	238.49	253.54	-999.00	-999.00
54.00215206.00	7.00	1.00	255.51	-999.00	245.62	255.56	264.12	240.71	253.90	-999.00	-999.00
54.00215207.00	7.00	1.00	245.51	-999.00	241.83	254.36	263.69	238.73	255.04	-999.00	-999.00
54.00215208.00	7.00	1.00	267.98	-999.00	234.49	251.26	261.71	240.76	254.09	-999.00	-999.00
54.00215209.00	7.00	1.00	289.96	-999.00	242.73	255.17	262.64	243.10	254.77	-999.00	-999.00
54.00215210.00	7.00	1.00	266.31	-999.00	236.80	250.97	260.25	239.80	252.69	-999.00	-999.00
54.00215211.00	7.00	1.00	255.68	-999.00	240.66	252.77	260.97	241.65	253.37	-999.00	-999.00
1983	54	21	5212	0	0	0	0	326	22	
-5	-4	-597	311	0	0	999	999	0	0	
0	0	2459	-2	-6294	1830	-11456	10458	4600	1974	
6910	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5213	61	150	-149	-482	326	22	
-4	-4	-597	310	290	111	999	999	5	2884	
2884	18	2474	-42	-6352	1836	-11449	10493	4591	1983	
6910	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5214	0	0	0	0	327	23	
-4	-4	-597	309	0	0	999	999	0	0	
0	0	2485	0	-6246	1822	-9827	10501	4592	1970	
6899	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5215	61	150	-149	-482	326	22	
-6	-5	-598	308	285	111	999	999	5	2842	
2842	18	2496	9	-6410	1818	-9823	10472	4603	2003	
6920	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5216	0	0	0	0	326	22	
-5	-6	-597	308	0	0	999	999	0	0	
0	0	2567	5	-6337	1820	-9828	10482	4603	1998	
6911	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5217	61	150	-149	-482	326	23	
-5	-3	-597	306	281	113	999	999	6	2821	
2821	18	2559	0	-6332	1837	-9834	10478	4600	2003	
6917	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5218	0	0	0	0	326	22	
-6	-3	-598	306	0	0	999	999	0	0	
0	0	2594	-3	-6319	1834	-9829	10503	4606	2005	
6906	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5219	61	150	-149	-482	327	22	
-5	-4	-598	306	278	112	999	999	6	2785	
2785	18	2584	10	-6259	1824	-9828	10504	4608	2013	
6902	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5220	0	0	0	0	326	22	
-6	-2	-598	304	0	0	999	999	0	0	
0	0	2658	4	-6356	1832	-9830	10472	4606	2013	

6912	0	0	-999	-999	-999	-999	-999	-999	-999	-999
1983	54	21	5221	61	150	-149	-482	326	23	
-5	-4	-597	304	274	112	999	999	6	2751	
2751	18	2675	18	-6254	1824	-9829	10498	4604	2013	
6914	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5222	0	0	0	0	326	22	
-6	-6	-598	303	0	0	16950	0	17716	-30016	
0	0	16656	0	17446	27349	17446	27349	17440	15744	
17438	1735	17453	2104	17454	-25529	17451	-1920	17433	-25387	
54.00215213.00	5.00	1.00	-999.00	274.57	237.90	249.82	260.61	236.65	249.24	-999.00	-999.00	
54.00215214.00	5.00	1.00	-999.00	270.85	236.16	250.97	260.12	238.99	250.72	-999.00	-999.00	
54.00215215.00	5.00	1.00	-999.00	271.92	246.82	255.49	263.86	243.20	253.23	-999.00	-999.00	
54.00215216.00	5.00	1.00	-999.00	268.11	239.92	251.53	263.53	241.97	251.76	-999.00	-999.00	
54.00215217.00	5.00	1.00	-999.00	270.89	235.63	250.25	259.64	237.88	251.51	-999.00	-999.00	
54.00215218.00	5.00	1.00	-999.00	265.56	239.45	250.61	260.16	239.40	252.95	-999.00	-999.00	
54.00215219.00	5.00	1.00	-999.00	264.59	226.55	248.53	258.39	239.10	253.68	-999.00	-999.00	
54.00215220.00	5.00	1.00	-999.00	264.45	234.45	249.40	259.55	241.36	255.54	-999.00	-999.00	
54.00215221.00	5.00	1.00	-999.00	262.12	222.80	247.19	258.98	237.82	252.79	-999.00	-999.00	
54.00215222.00	5.00	1.00	-999.00	264.24	216.09	245.23	254.99	238.20	250.32	-999.00	-999.00	
1983	54	21	5223	61	150	-149	-482	326	22	
-6	-7	-596	303	270	110	163	999	6	2721	
2721	18	2740	26	-4024	1818	-9827	10478	4615	2016	
6903	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5224	0	0	0	0	327	23	
-5	-6	-596	301	0	0	167	999	0	0	
0	0	2717	-27	-4040	1837	-8192	10508	4605	2034	
6907	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5225	61	150	-149	-482	326	23	
-6	-5	-598	300	267	111	167	999	6	2695	
2672	18	2733	0	-4026	1823	-8192	10501	4601	2017	
6905	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5226	0	0	0	0	326	22	
-6	-4	-598	300	0	0	167	999	0	0	
0	0	2756	4	-4015	1813	-8192	10478	4610	2043	
6911	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5227	61	150	-149	-482	326	22	
-6	-4	-598	299	266	110	168	999	6	2652	
2652	18	2803	14	-4029	1836	-8192	10472	4615	2049	
6912	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5228	0	0	0	0	326	22	
-5	-3	-598	298	0	0	168	999	0	0	
0	0	2762	13	-4058	1829	-8192	10490	4604	2026	
6908	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5229	61	150	-149	-482	326	22	
-7	-7	-598	298	264	110	168	999	7	2634	
2634	18	2820	10	-4139	1815	-8192	10491	4612	2046	
6932	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5230	0	0	0	0	326	23	
-7	-4	-598	296	0	0	168	999	0	0	
0	0	2862	8	-4159	1836	-8196	10484	4617	2031	
6904	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5231	61	150	-149	-482	326	23	
-5	-3	-597	295	262	109	175	999	7	2620	
2620	18	2857	-2	-4039	1831	-8192	10495	4610	2043	
6900	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5232	0	0	0	0	326	22	
-7	-5	-598	295	0	0	175	999	0	0	
0	0	2907	-25	-4106	1818	-8192	10474	4615	2031	
6912	0	0	-999	-999	-999	-999	-999	-999	-999	
1983	54	21	5233	61	150	-149	-482	326	22	

-9	-6	-597	294	261	110	16950	0	17716	-29840			
16736	0	16656	0	17195	27534	17195	27534	17186	4323			
17205	455	17188	0	17195	-11606	17196	25486	17200	11377			
54.00215224.00	7.00	1.00	240.88	-999.00	226.03	247.31	258.26	237.82	251.83	-999.00	-999.00	
54.00215225.00	7.00	1.00	279.28	-999.00	226.03	246.25	257.22	235.93	250.46	-999.00	-999.00	
54.00215226.00	7.00	1.00	253.54	-999.00	234.49	248.93	258.70	236.52	250.22	-999.00	-999.00	
54.00215227.00	7.00	1.00	265.68	-999.00	219.54	245.85	256.25	231.13	248.48	-999.00	-999.00	
54.00215228.00	7.00	1.00	252.44	-999.00	225.31	246.08	255.33	232.23	247.63	-999.00	-999.00	
54.00215229.00	7.00	1.00	249.73	-999.00	232.75	249.92	258.32	234.46	250.31	-999.00	-999.00	
54.00215230.00	7.00	1.00	264.96	-999.00	234.93	250.08	259.81	242.08	255.23	-999.00	-999.00	
54.00215231.00	7.00	1.00	250.79	-999.00	234.80	249.01	259.76	241.06	253.90	-999.00	-999.00	
54.00215232.00	7.00	1.00	242.91	-999.00	226.22	247.05	258.64	239.64	252.53	-999.00	-999.00	
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1983	54	21	5234		0	0	0	0	326	22		
-6	-5	-598	293		0	0	180	999	0	0		
0	0	2938	-13		-4023	1838	-6540	10495	4615	2057		
6902	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5235		61	150	-149	-482	327	22		
-7	-4	-598	293		261	109	179	999	7	2609		
2609	18	2949	-5		-4099	1820	-6541	10500	4612	2052		
6906	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5236		0	0	0	0	326	22		
-7	-5	-598	293		0	0	179	999	0	0		
0	0	2960	8		-4091	1816	-6539	10492	4620	2052		
6904	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5237		61	150	-149	-482	325	22		
-7	-5	-598	291		261	109	179	999	7	2607		
2607	18	3018	24		-4024	1834	-6544	10472	4619	2056		
6899	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5238		0	0	0	0	326	22		
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6904	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5239		61	150	-149	-482	326	22		
-6	-3	-598	290		261	109	184	999	8	2607		
2607	18	2986	6		-4019	1813	-6539	10486	4620	2069		
6919	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5240		0	0	0	0	326	22		
-7	-6	-599	289		0	0	184	999	0	0		
0	0	3052	0		-4087	1811	-6543	10492	4620	2078		
6922	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5241		61	150	-149	-482	326	23		
-7	-4	-599	288		261	108	184	999	8	2606		
2606	18	2933	27		-4053	1836	-6552	10489	4631	2074		
6914	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5242		0	0	0	0	326	23		
-5	-3	-598	288		0	0	184	999	0	0		
0	0	3069	902		-8999	1829	-6544	10499	4625	2067		
6909	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5243		61	150	-149	-482	326	23		
-8	-3	-599	287		260	108	999	999	8	2606		
2606	18	2665	974		-9007	1834	-6554	10488	4624	2078		
6916	0	0	-999		-999	-999	-999	-999	-999	-999		
1983	54	21	5244		0	0	0	0	326	23		
-6	-3	-600	286		0	0	16950	0	17716	-29664		
0	0	16656	0		17446	15075	17446	15075	17440	-25686		
17438	11278	17452	-1494		17454	-32470	17451	-18859	17433	-27492		
54.00215235.00	5.00	1.00	-999.00	266.07	222.17	246.08	257.45	232.49	249.68	-999.00	-999.00	
54.00215236.00	5.00	1.00	-999.00	270.48	229.20	248.57	259.64	237.56	253.40	-999.00	-999.00	
54.00215237.00	5.00	1.00	-999.00	273.42	228.29	249.22	259.65	236.36	253.31	-999.00	-999.00	

54.00215238.00	5.00	1.00	-999.00	272.29	220.05	247.48	259.25	236.39	254.66	-999.00	-999.00
54.00215239.00	5.00	1.00	-999.00	268.38	228.53	250.38	260.54	239.49	253.09	-999.00	-999.00
54.00215240.00	5.00	1.00	-999.00	270.18	220.87	248.77	258.68	235.43	251.67	-999.00	-999.00
54.00215241.00	5.00	1.00	-999.00	267.83	221.48	247.34	257.81	234.82	250.35	-999.00	-999.00
54.00215242.00	5.00	1.00	-999.00	268.01	229.06	249.83	259.39	239.95	252.28	-999.00	-999.00
54.00215243.00	5.00	1.00	-999.00	275.25	237.73	253.29	262.91	238.70	253.63	-999.00	-999.00
54.00215244.00	5.00	1.00	-999.00	280.85	235.73	249.93	259.08	238.19	255.96	-999.00	-999.00

DUMP OF TAPE GAIL3

D66738
02/07/83 - 02/24/83

INPUT TAPE GAIL3 ON HT1
DATA INPUT H9 NF 9 SR 1 1 1 SR 9 LAST 1

1983 256

FILE	1 RECORD		1 LENGTH	28000BYTES						
(0)	07BF0026	00131671	00000000	00000000	0005000F	FFF8FFFB	FE3D0142	00000000	000000C7	00000000
(40)	00000000	00280003	00060091	007C2975	00080002	02AA0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(80)	07BF0026	00131672	002500FA	FF86FFE2	0004000F	FFF8FFFB	FE3D0142	00430070	000000C7	000802A9
(120)	02A90002	00260007	00000097	005E2980	00080002	02820000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(160)	07BF0026	00131673	00000000	00000000	0004000E	FFF7FFFB	FE3E0141	00000000	000000C7	00000000
(200)	00000000	001F0000	0000008A	00542976	FFE8FFFE	029F0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(240)	07BF0026	00131674	002500FA	FF86FFE2	0002000E	FFF8FFFC	FE3D0141	0044006F	000000CB	000802AB
(280)	02AB0002	00230004	0000007E	00512958	00000000	029D0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(320)	07BF0026	00131675	00000000	00000000	0005000F	FFF9FFFA	FE3E0140	00000000	000000CB	00000000
(360)	00000000	002A0006	00000086	0045296E	FFFB0000	02AB0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(400)	07BF0026	00131676	002500FA	FF86FFE2	0003000F	FFF8FFFC	FE3D0140	0044006F	000000CB	000802AD
(440)	02AD0002	002F0003	00000086	003D2970	000A0000	02A60000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(480)	07BF0026	00131677	00000000	00000000	0005000F	FFF9FFFB	FE3D013F	00000000	000000CB	00000000
(520)	00000000	00210005	00000086	00392972	00000003	02AB0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(560)	07BF0026	00131678	002500FA	FF86FFE2	00050010	FFF9FFFC	FE3C013F	00440070	000000C8	000802AE
(600)	02AE0002	00230006	00010081	0037297E	000D0001	02A00000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(640)	07BF0026	00131679	00000000	00000000	0005000F	FFF8FFFB	FE3D013D	00000000	000000C6	00000000
(680)	00000000	00210001	00000080	00382979	00070000	02980000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(720)	07BF0026	0013167A	002500FA	FF86FFE2	0005000F	FFF8FFFB	FE3D013B	00440070	000000C6	000802AC
(760)	02AC0002	00210005	FFF20082	0037297F	FFF50000	02A30000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(800)	07BF0026	0013167B	00000000	00000000	0004000F	FFF9FFFA	FE3D013B	00000000	42260000	452FCA10
(840)	41600000	41100000	4332BC71	4332BC71	43305B8E	4339FC71	4323B000	432582AA	432B6C71	43264C71
(880)	42260000	452FCA20	41700000	41100000	C27D3E30	C33E7000	42A9DD58	42E25F8B	42E79670	42CA8061
(920)	42E7211E	C33E7000	C33E7000	42260000	452FCA30	41700000	41100000	C2CDACD0	C33E7000	42A09906
(960)	42D85C94	42E1C6E5	42C5622A	42E1FEDE	C33E7000	C33E7000	42260000	452FCA40	41700000	41100000
(1000)	C2EC0520	C33E7000	429F295D	42D56DC5	42D59237	42BC59C6	42DA83B2	C33E7000	C33E7000	42260000
(1040)	452FCA50	41700000	41100000	C2D1BF50	C33E7000	42A2ABEB	42D82AEC	42DBACB7	42B9EBEE	42DE059F
(1080)	C33E7000	C33E7000	42260000	452FCA60	41700000	41100000	C2C26A30	C33E7000	429A2741	42D09719
(1120)	42D37E9E	42B654A0	42D859E8	C33E7000	C33E7000	42260000	452FCA70	41700000	41100000	C2C9F310
(1160)	C33E7000	42A49A7D	42DB13AD	42DE28BF	42C1D0F4	42E07E50	C33E7000	C33E7000	42260000	452FCA80
(1200)	41700000	41100000	C2DCF100	C33E7000	42A52672	42DB9FFE	42DD00B0	42BBC472	42E131A5	C33E7000
(1240)	C33E7000	42260000	452FCA90	41700000	41100000	C29B0D80	C33E7000	42A05667	42D82396	42DA09B3
(1280)	42B7D639	42DD9C2A	C33E7000	C33E7000	42260000	452FCAA0	41700000	41100000	C295BB90	C33E7000
(1320)	42A5D1C6	42DDB915	42DD2BA8	42BC7729	42E1C609	C33E7000	C33E7000	42260000	452FCAB0	41700000
(1360)	41100000	C29419B0	C33E7000	42B7FD30	42EDB7B8	42F01E8A	42D08A02	42F20234	C33E7000	C33E7000
(1400)	07BF0026	0013167C	002500FA	FF86FFE2	0005000F	FFF9FFFA	FE3C013B	00430070	000000C9	000802AA
(1440)	02AA0002	00260001	00000084	00182982	00100004	028A0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1480)	07BF0026	0013167D	00000000	00000000	0005000F	FFF9FFFB	FE3C013B	00000000	000000C9	00000000
(1520)	00000000	002A0002	00000083	FFFD2994	000C0009	02AB0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1560)	07BF0026	0013167E	002500FA	FF86FFE2	0006000E	FFF8FFFB	FE3E0139	0043006F	000000C9	000802A7
(1600)	02A70002	00260000	FFFE0084	000E2993	00050000	02A40000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1640)	07BF0026	0013167F	00000000	00000000	00050010	FFF8FFFC	FE3D0138	00000000	000000C9	00000000
(1680)	00000000	00250005	0002008A	FFF829A1	FFF6FFFF	02B80000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1720)	07BF0026	001316A8	002500FA	FF86FFE2	0004000F	FFF8FFFC	FE3C0137	0043006E	000000C9	000802A4
(1760)	02A40002	00290007	0001008E	FFFA29A2	FFF90000	02A10000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1800)	07BF0026	001316A9	00000000	00000000	0004000F	FFF8FFFC	FE3D0137	00000000	000000C9	00000000
(1840)	00000000	00240002	0005008B	FFF029A4	00000000	02A10000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1880)	07BF0026	001316AA	002500FA	FF86FFE2	0004000F	FFF7FFFC	FE3C0136	0042006F	000000C9	000802A0
(1920)	02900002	00260008	0000008C	FFE829AC	FFF80000	029D0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1960)	07BF0026	001316AB	00000000	00000000	0004000F	FFF8FFFC	FE3D0135	00000000	000000C9	00000000
(2000)	00000000	00270002	0004008E	FFDE2930	000E0008	02AF0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(2040)	07BF0026	001316AC	002500FA	FF86FFE2	0007000E	FFF7FFFB	FE3C0134	003F006E	000000C6	00080268
(2080)	02680002	002A0000	00110096	FFD029A0	FFFC0000	02A00000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(2120)	07BF0026	001316AD	00000000	00000000	0009000E	FFF6FFFD	FE3D0133	00000000	000000C6	00000000
(2160)	00000000	001E0000	00000090	FFBA29A4	FFEAFFFF	02A10000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(2200)	07BF0026	001316AE	002500FA	FF86FFE2	0006000E	FFF7FFFC	FE3E0133	0039006D	42260000	452FCAC0
(2240)	00000000	41100000	43E1A38E	43E1A38E	44218680	441DC3B8	442C9E2A	44276738	442CFBB8	4416671C

(26120)	42E37EC7	C33E7000	C33E7000	42260000	4530DA90	41700000	41100000	C2EF9B30	C33E7000	429F520C
(26160)	42D8FC45	42DEADDD	42A1B3D6	42E3DE96	C33E7000	C33E7000	42260000	4530DAA0	41700000	41100000
(26200)	C2F52500	C33E7000	429FC91E	42D88584	42DE29EE	42A11A33	42E290DB	C33E7000	C33E7000	42260000
(26240)	4530DAB0	41700000	41100000	C2F2C6B0	C33E7000	429FFE6F	42D914A1	42DEB5B4	42A0AD4D	42E2B5A6
(26280)	C33E7000	C33E7000	42260000	4530DAC0	41700000	41100000	C2F48E10	C33E7000	429EE81B	42D96C80
(26320)	42DF5856	42A140E7	42E4170F	C33E7000	C33E7000	42260000	4530DAD0	41700000	41100000	C2F25A50
(26360)	C33E7000	42A0BF6E	42D9EDB0	42DF4B7C	42A145C1	42E39971	C33E7000	C33E7000	42260000	4530DAE0
(26400)	41700000	41100000	C2EE5F10	C33E7000	429EED70	42D8E993	42DF42B7	42A27DE2	42E33C26	C33E7000
(26440)	C33E7000	42260000	4530DAF0	41700000	41100000	C2ED6530	C33E7000	42A066EE	42DA29B8	42DF9F78
(26480)	42A0B966	42E338FD	C33E7000	C33E7000	42260000	4530DB00	41700000	41100000	C2F31710	C33E7000
(26520)	429FA14C	42D8F7EC	42DEE322	42A19BA6	42E36D00	C33E7000	C33E7000	42260000	4530DB10	41700000
(26560)	41100000	C2F0FD40	C33E7000	429E1CC9	42D9E649	42E0421A	42A0AD46	42E33CC7	C33E7000	C33E7000
(26600)	07BF0026	00140072	002500FF	FF86FFE0	00030008	FFF60000	FE3E00B8	002C0077	007403E7	000001B9
(26640)	01B80002	076EFFF0	FD9C0080	02B42999	1C1E29EE	1AF00000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(26680)	07BF0026	00140073	00000000	00000000	00020008	FFF60000	FE3D00B8	00000000	007403E7	00000000
(26720)	00000000	0776000D	FD6C0071	02B32987	1C2029E6	1AD10000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(26760)	07BF0026	00140074	002500FF	FF86FFE0	00040008	FFF70000	FE3C00B8	002C0077	007503E7	000001B9
(26800)	01B90002	07760000	FD430071	02B429A3	1C3229EA	1AE40000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(26840)	07BF0026	00140075	00000000	00000000	00040008	FFF80000	FE3D00B6	00000000	007503E7	00000000
(26880)	00000000	078E000C	FD49007E	02AF29A6	1C2229F3	1AEE0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(26920)	07BF0026	00140076	002500FF	FF86FFE0	00020008	FFF70000	FE3D00B7	002C0076	007503E7	000001B9
(26960)	01B90002	0779FFF7	FD74008A	02AD29B1	1C2C29ED	1AE90000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(27000)	07BF0026	00140077	00000000	00000000	00030008	FFF70000	FE3C00B6	00000000	007503E7	00000000
(27040)	00000000	076CFFF3	FD5E007F	02A729AE	1C2429EC	1AF70000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(27080)	07BF0026	00140078	002500FF	FF86FFE0	00040008	FFF50000	FE3D00B6	002C0077	007403E7	000001B9
(27120)	01B90002	0775FFF4	FD380070	02B0298C	1C3029EE	1AE70000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(27160)	07BF0026	00140079	00000000	00000000	00030008	FFF80000	FE3C00B5	00000000	007403E7	00000000
(27200)	00000000	07C2FFFA	FD580078	02A729A7	1C7329FC	1AF50000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(27240)	07BF0026	0014007A	002500FF	FF86FFE0	00030008	FFF70000	FE3C00B6	002C0076	007403E7	000001B8
(27280)	01B80002	0798FFFC	FD880085	02AA29B7	1C8629EC	1AE90000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(27320)	07BF0026	0014007B	00000000	00000000	00030008	FFF60000	FE3D00B5	00000000	007703E7	00000000
(27360)	00000000	074DFFF0	FD820084	02A929A8	1C7329E0	1AEC0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(27400)	07BF0026	0014007C	002500FF	FF86FFE0	00020007	FFF50000	FE3D00B3	002C0076	42260000	4530DB20
(27440)	00000000	41100000	43E60000	43E60000	4422361C	441E59D5	442C94E3	4429A4C7	442C70F1	4415E555
(27480)	42260000	4530DB30	41500000	41100000	C33E7000	41565300	42A086DA	42DAA568	42DEC0C0	429E7808
(27520)	42E20FB5	C33E7000	C33E7000	42260000	4530DB40	41500000	41100000	C33E7000	4131B800	42A0F26C
(27560)	42DA6031	42DFCF74	42A19BA6	42E38B81	C33E7000	C33E7000	42260000	4530DB50	41500000	41100000
(27600)	C33E7000	41199A00	42A04A26	42DAAFB0	42DF5A47	42A248B0	42E42892	C33E7000	C33E7000	42260000
(27640)	4530DB60	41500000	41100000	C33E7000	C0D69000	42A0A454	42DB2D38	42DF7B2C	42A2C34B	42E45CA1
(27680)	C33E7000	C33E7000	42260000	4530DB70	41500000	41100000	C33E7000	40399000	42A0D8DA	42DADDBB
(27720)	42DF7E9F	42A3946A	42E4C751	C33E7000	C33E7000	42260000	4530DB80	41500000	41100000	C33E7000
(27760)	413FF300	42A168F8	42DA9EBF	42E00D7E	42A3176F	42E4A467	C33E7000	C33E7000	42260000	4530DB90
(27800)	41500000	41100000	C33E7000	C0F85000	42A08354	42DAEBA4	42DF8E4B	42A0CF4E	42E35A2A	C33E7000
(27840)	C33E7000	42260000	4530DBA0	41500000	41100000	C33E7000	C120F800	42A140D8	42DABBD9	42DFEF8C
(27880)	42A3D7B4	42E45279	C33E7000	C33E7000	42260000	4530DBB0	41500000	41100000	C33E7000	40BEE000
(27920)	42A166D6	42DB8BEC	42DFDA1D	42A0C482	42E4C755	C33E7000	C33E7000	42260000	4530DBC0	41500000
(27960)	41100000	C33E7000	41554800	42A0B722	42DACE84	42E0109F	42A50DBE	42E4447D	C33E7000	C33E7000

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
	1 70	70	28000	0	0	0	0	0	0

1983 55

FILE 9 RECORD 67 LENGTH 25200BYTES

(0)	07BF0037	00011285	002801A1	FF84FE8B	273B266C	0007FFF7	FDE0FF39	00BB0049	FE5D03E7	019B0602
(40)	06330012	E5110009	F8C42601	F9912870	1C040289	0DCC007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(80)	07BF0037	00011286	00000000	00000000	273C2669	0009FFF7	FDE0FF3B	00000000	FE5D03E7	00000000
(120)	00000000	E5200025	F8D42606	F9952872	1C05028F	0DCD007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(160)	07BF0037	00011287	0028019F	FF84FE8D	273C2668	000AFFF7	FDE0FF3B	00BB004A	FE5C03E7	019C0602
(200)	06330012	E52BFFF7	F8F02604	F9932873	1BFE028E	0DD0007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(240)	07BF0037	00011288	00000000	00000000	273C266A	000AFFF5	FDDFFF3D	000 00000	FE5D03E7	00000000
(280)	00000000	E4E6FFD9	F8E82605	FFFE287F	1BF9027F	0DCE007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(320)	07BF0037	00011289	0028019E	FF84FE8E	273C266A	000AFFF0	FDE0FF3B	00BA004A	FE5D03E7	019C0601
(360)	06310012	E52AFFD7	F8C625FD	00002880	1BF40289	0DD3007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(400)	07BF0037	0001128A	00000000	00000000	273C2669	0009FFED	FDDFFF2C	00000000	FE5D03E7	00000000

DUMP OF TAPE GAIL

INPUT TAPE GAIL ON HT1
DATA INPUT H9 NF=18 SR=10=1=1 SR=10=LAST=1 SR=18=1=1 SR=18=LAST=1

DAYS 38-55 1ST HOUR 1983

D66739
02/07/83 - 02/24/83

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
1	77	77	17200	0	0	0	0	0	0

1983 38

FILE 10 RECORD 1 LENGTH 31680BYTES

(0)	07BF0026	00131666	002500FA	FF86FFE0	0006000F	FFF7FFF9	FE3E014C	00430070	000000C9	000602A7
(40)	02A70002	001C0000	00050075	0098293F	FFF60006	02780000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(80)	07BF0026	00131667	00000000	00000000	0005000F	FFF8FFF8	FE3E014C	00000000	000000C9	00000000
(120)	00000000	0020000A	FFFF007B	00972956	FFFC0000	02700000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(160)	07BF0026	00131668	002500FA	FF86FFE0	0006000F	FFF8FFFA	FE3C014B	00430070	000000C8	000602A9
(200)	02A80002	001E000C	00040082	008C294C	00000002	027C0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(240)	07BF0026	00131669	00000000	00000000	0007000E	FFF8FFF9	FE3D014B	00000000	000000C8	00000000
(280)	00000000	00280005	FFF50086	00882940	FFF60002	02890000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(320)	07BF0026	0013166A	002500FA	FF86FFE0	0006000F	FFF8FFFA	FE3E0149	0043006F	000000C8	000602A8
(360)	02A80002	002B0000	FFFF008F	007E2955	FFF60000	02B00000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(400)	07BF0026	0013166B	00000000	00000000	0006000F	FFF7FFF9	FE3D0148	00000000	000000C8	00000000
(440)	00000000	002E0000	00000036	007E2966	000B0010	02AC0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(480)	07BF0026	0013166C	002500FA	FF86FFE2	0005000E	FFF6FFF7	FE3E0147	00430070	000000C7	000702A0
(520)	02A00002	00180000	FFF8008C	00742957	00000000	02990000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(560)	07BF0026	0013166D	00000000	00000000	0006000E	FFF6FFF9	FE3D0146	00000000	000000C7	00000000
(600)	00000000	001C0000	0000008A	0071295A	FFECFFFC	02720000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(640)	07BF0026	0013166E	002500FA	FF86FFE2	0005000E	FFF6FFF7	FE3E0146	0042006F	000000C7	0007029F
(680)	029F0002	001D0001	FFFF007C	00762341	0007FFFD	026C0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(720)	07BF0026	0013166F	00000000	00000000	0006000E	FFF7FFF9	FE3E0145	00000000	000000C7	00000000
(760)	00000000	00200001	FFFC007A	00832956	00090000	028B0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(800)	07BF0026	00131670	002500FA	FF86FFE2	0005000F	FFF8FFF9	FE3D0144	0043006F	000000C7	000702A0
(840)	02A40002	002C0015	0001007C	0090296B	FFFA0004	02690000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(880)	07BF0026	00131671	00000000	00000000	0005000F	FFF8FFFB	FE3D0142	00000000	000000C7	00000000
(920)	00000000	00280003	00060091	007C2975	00080002	02AA0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(960)	07BF0026	00131672	002500FA	FF86FFE2	0004000F	FFF8FFFB	FE3D0142	00430070	000000C7	000802A9
(1000)	02A90002	00260007	00000097	005E2980	00080002	02B20000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1040)	07BF0026	00131673	00000000	00000000	0004000E	FFF7FFFB	FE3E0141	00000000	000000C7	00000000
(1080)	00000000	001F0000	0000008A	00542976	FFE8FFFE	029F0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1120)	07BF0026	00131674	002500FA	FF86FFE2	0002000E	FFF8FFFC	FE3D0141	0044006F	000000CB	000802AB
(1160)	02AB0002	00230004	0000007E	00512958	00000000	029D0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1200)	07BF0026	00131675	00000000	00000000	0005000F	FFF9FFFA	FE3E0140	00000000	000000CB	00000000
(1240)	00000000	002A0006	00000086	0045296E	FFFB0000	02AB0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1280)	07BF0026	00131676	002500FA	FF86FFE2	0003000F	FFF8FFFC	FE3D0140	0044006F	000000CB	000802AD
(1320)	02AD0002	002F0003	00000086	003D2970	000A0000	02A60000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1360)	07BF0026	00131677	00000000	00000000	0005000F	FFF9FFFB	FE3D013F	00000000	000000CB	00000000
(1400)	00000000	00210005	00000086	00392972	00000003	02AB0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1440)	07BF0026	00131678	002500FA	FF86FFE2	00050010	FFF9FFFC	FE3C013F	00440070	000000C8	000802AE
(1480)	02AE0002	00230006	00010081	0037297E	000D0001	02A00000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1520)	07BF0026	00131679	00000000	00000000	0005000F	FFF8FFFB	FE3D013D	00000000	000000C6	00000000
(1560)	00000000	00210001	00000080	00382979	00070000	02980000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1600)	07BF0026	0013167A	002500FA	FF86FFE2	0005000F	FFF8FFFB	FE3D013B	00440070	000000C6	000802AC
(1640)	02AC0002	00210005	FFF20082	0037297F	FFF50000	02A30000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1680)	07BF0026	0013167B	00000000	00000000	0004000F	FFF9FFFA	FE3D013B	00000000	000000C6	00000000
(1720)	00000000	00280004	00000084	00332987	FFF40000	02800000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1760)	07BF0026	0013167C	002500FA	FF86FFE2	0005000F	FFF9FFFA	FE3C013B	00430070	000000C9	000802AA
(1800)	02AA0002	00260001	00000084	00182982	00100004	028A0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1840)	07BF0026	0013167D	00000000	00000000	0005000F	FFF9FFFB	FE3C013B	00000000	000000C9	00000000
(1880)	00000000	002A0002	00000083	FFFD2994	000C0009	02AB0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(1920)	07BF0026	0013167E	002500FA	FF86FFE2	0006000E	FFF8FFFB	FE3E0139	0043006F	000000C9	000802A7
(1960)	02A70002	00260000	FFFE0084	000E2993	00050000	02A40000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(2000)	07BF0026	0013167F	00000000	00000000	00050010	FFF8FFFC	FE3D0138	00000000	000000C9	00000000
(2040)	00000000	00250005	0002008A	FFF829A1	FFF6FFFF	02B80000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(2080)	07BF0026	001316A8	002500FA	FF86FFE2	0004000F	FFF8FFFC	FE3C0137	0043006E	000000C9	000802A4

(30520)	00000000	FA9B0051	F255060C	FFFF292C	07FF0270	0DDE0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(30560)	07BF0036	0015160D	003D0098	FF6BFE36	0166001B	0087FFFF	FFFE0088	0DF70005	FFA4FFD4	00A50324
(30600)	03250012	FA67FFEC	E6940613	00032928	08390252	0DDE0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(30640)	07BF0036	0015160E	00000000	00000000	0160001B	008DFFF5	FFED0088	00000000	FFA4FFD4	00000000
(30680)	00000000	F9B9FFF5	FC6C0626	00072950	086D0245	0DDE0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(30720)	07BF0036	0015160F	003D0098	FF6BFE37	0174001A	008FFFED	FFEC0088	012B0003	FF9FFFC1	00A60326
(30760)	031D0012	F9EE0007	09900620	00032940	08A7024A	0DDF0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(30800)	07BF0036	00151610	00000000	00000000	0180001B	0093FFEB	FFEB0087	00000000	FF9FFFC1	00000000
(30840)	00000000	FA530001	FC11063D	00042955	08CB021F	0DE90000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(30880)	07BF0036	00151611	003D0098	FF6BFE38	018C001A	008FFFED	FFEB0087	01630003	FF9FFFC1	00A60324
(30920)	03170012	F9780045	E2B6065D	0000292B	08F70202	0DEC0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(30960)	07BF0036	00151612	00000000	00000000	019C001B	008BFFFC	FFE90085	00000000	FF9FFFC1	00000000
(31000)	00000000	F9ED0000	EE750665	00022936	091701C3	0DE60000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31040)	07BF0036	00151613	003D009A	FF6BFE3A	01A6001B	008AFFF5	FFEA0084	00160004	FFA1FFAC	00A6031F
(31080)	03120012	F99C0016	05400685	0001294C	09320178	0DE10000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31120)	07BF0036	00151614	00000000	00000000	01B0001B	008AFFFC	FFE90085	00000000	FFA1FFAC	00000000
(31160)	00000000	FA100001	01100682	0000292E	095F0129	0DDE0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31200)	07BF0036	00151615	003D009A	FF6BFE3C	01BA001B	008BFFFF	FFE70084	000B0005	FFA1FFAC	00A6031C
(31240)	030C0012	FA57FFE7	EA520678	00022937	0975009A	0DDE0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31280)	07BF0036	00151616	00000000	00000000	01C5001B	0087FFF9	FFE70082	00000000	FFA8FFA0	00000000
(31320)	00000000	F9F4FF94	EA030689	066D2951	09840024	0DD20000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31360)	07BF0036	00151617	003D009A	FF6BFE3E	01CE001B	007DFFF5	FFE60082	00160008	FFA2FF9F	00A7031A
(31400)	03020012	F99E0000	02740670	06682935	0986FFD0	0DDD0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31440)	07BF0036	00151618	00000000	00000000	01D8001B	0075FFFA	FFE60083	00000000	FFA2FF9F	00000000
(31480)	00000000	F9C1FFF5	05E4066A	06732946	0981FFCA	0DF40000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31520)	07BF0036	00151619	003D009B	FF6BFE40	01E0001B	006FFFF5	FFE50082	000E0009	FFA2FF9F	00A80319
(31560)	03010012	FA1CFFE6	F1B80664	06662957	096CFFF7	0DDC0000	0000FC19	FC19FC19	FC19FC19	FC19FC19
(31600)	07BF0036	0015161A	00000000	00000000	01E6001B	0068FFE8	FFE40082	00000000	FFA2FF9F	00000000
(31640)	00000000	F9EDFFA2	E31F0638	06692944	09630044	0DE70000	0000FC19	FC19FC19	FC19FC19	FC19FC19

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(0)	07BF0037	00011343	00280131	FF84FED5	273E266C	000A0007	FDE3FEC9	00BC0048	FE5903E7	019C05FA
(40)	062C0012	E4C7FFDD	F8AC25FE	3FF7289E	1B430242	0DC0007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(80)	07BF0037	00011344	00000000	00000000	273E266D	000A0007	FDE3FECD	00000000	FE5903E7	00000000
(120)	00000000	E4D6FFDC	F8C625FD	3FF72893	1B3F0246	0DCA007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(160)	07BF0037	00011345	0028012E	FF84FED6	273D2671	000A0009	FDE5FECD	00BC0048	FE5903E7	019C05FA
(200)	062C0012	E4EBFFE6	F8BC25F5	3FF82887	1B470241	0DCE007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(240)	07BF0037	00011346	00000000	00000000	273D266F	000A0009	FDE4FECD	00000000	FE5903E7	00000000
(280)	00000000	E4D8FFDE	F8A925EE	C0082842	1B3A0233	0DD4007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(320)	07BF0037	00011347	0028012D	FF84FED8	273B266E	000A0009	FDE3FECD	00BA0048	FE5803E7	019C05FB
(360)	062C0012	E4C8FFDF	F8CC25FE	C006285C	1B3B023C	0DCC007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(400)	07BF0037	00011348	00000000	00000000	273C266C	00090009	FDE3FECF	00000000	FE5803E7	00000000
(440)	00000000	E4C7FFE3	F8CD25FA	C0052860	1B38023C	0DD0007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(480)	07BF0037	00011349	0028012C	FF84FED9	273D266C	000A0008	FDE3FECE	00BA0048	FE5803E7	019C05FC
(520)	062C0012	E4D6FFDE	F8E425FD	C0052869	1B39023F	0DCE007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(560)	07BF0037	0001134A	00000000	00000000	273D266D	0008000A	FDE2FECE	00000000	FE5803E7	00000000
(600)	00000000	E4DBFFDA	F8CC25F9	C0012868	1B2F024A	0DD0007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(640)	07BF0037	0001134B	0028012A	FF84FEDB	273D266F	000A000A	FDE3FECB	00BA0048	FE5803E7	019C05FD
(680)	062E0012	E4E9FFDA	F90625F4	C0082859	1B330246	0DD9007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(720)	07BF0037	0001134C	00000000	00000000	273D266F	0009000A	FDE1FEC6	00000000	FE5803E7	00000000
(760)	00000000	E4DC0004	F8F125F2	C004284F	1B310240	0DCE007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(800)	07BF0037	0001134D	00280127	FF84FEDC	273C266A	000A0009	FDE1FEC3	00BA0049	FE5803E7	019C05FD
(840)	062E0012	E4E4000D	F8F025F2	C0062856	1B310238	0DCA007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(880)	07BF0037	0001134E	00000000	00000000	273D266E	00090009	FDE2FEBD	00000000	FE5803E7	00000000
(920)	00000000	E4A7FFF4	F8F725F3	C0042840	1B33023D	0DDA007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(960)	07BF0037	0001134F	00280125	FF84FEDC	273E266D	0009000D	FDDFFEBD	00BB0049	FE5503E7	019C05FF
(1000)	06310012	E4F5FFF1	F93225FE	C0002839	1B340249	0DD1007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(1040)	07BF0037	00011350	00000000	00000000	273E266D	0008000E	FDE0FE1D	00000000	FE5903E7	00000000
(1080)	00000000	E506FFEA	F91025FC	C6682838	1B30024F	0DCF007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(1120)	07BF0037	00011351	00280123	FF84FEDF	273E266C	0009000E	FDDFFEB0	00BA0049	FE5903E7	019C0601
(1160)	06310012	E4FFFFEB	F94025FF	C6662838	1B290241	0DD0007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(1200)	07BF0037	00011352	00000000	00000000	273F266F	0009000C	FDE0FEC4	00000000	FE5903E7	00000000
(1240)	00000000	E4F2002A	F9692604	C6662860	1B2C0247	0DDD007C	0091FC19	FC19FC19	FC19FC19	FC19FC19
(1280)	07BF0037	00011353	00280120	FF84FEE0	273E266E	00090008	FDE1FEC6	00BA0048	FE5903E7	019C0602
(1320)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]