

NATIONAL INSTITUTE OF OCEANOGRAPHY

Wormley, Godalming, Surrey.



BATHYMETRIC AND MAGNETIC TRAVERSES OVER THE
ROCKALL PLATEAU:

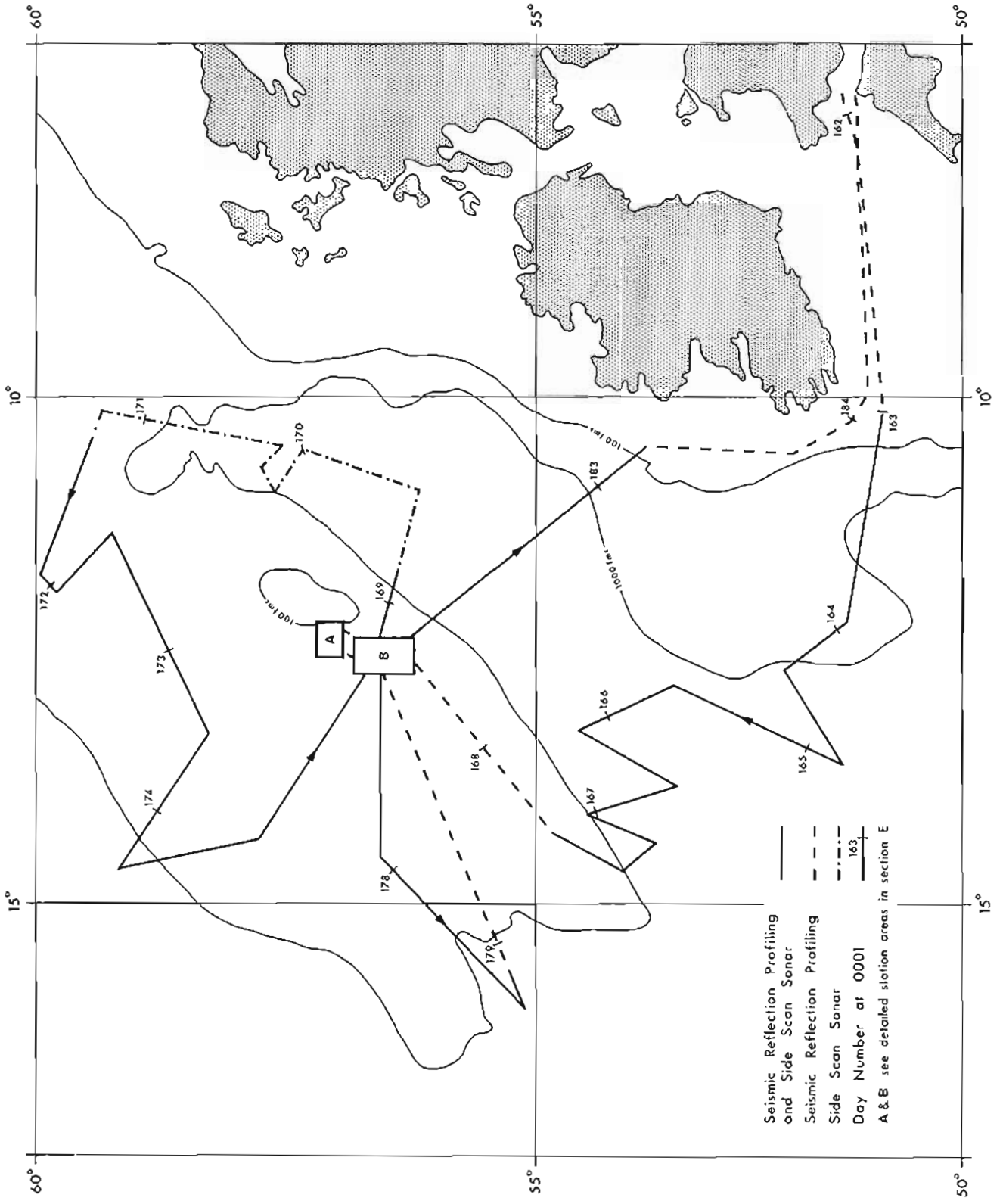
R. R. S. "DISCOVERY", CRUISE 47, JUNE - JULY, 1972

N. J. Olliff

PREFACE

This document describes geophysical data collected by the Deep Sea Floor Group of the Institute of Oceanographic Sciences (Wormley), and continues the series of N.I.O. Data Reports (Geophysics). The series is intended to provide an efficient means of documenting the data not only for internal use but also for distribution to the scientific community. On citing this report in a bibliography the reference should be followed by the words "UNPUBLISHED MANUSCRIPT" in accordance with accepted bibliographic custom.

The present report contains magnetic and bathymetric data collected during Cruise 47 on R.R.S. Discovery in June-July 1972. The profiles, tables and track charts were all generated automatically from data files stored on disk by the shipboard IBM 1800 Computer. Included in the report is a description of methods used in data acquisition and preparation.



R.R.S. DISCOVERY CRUISE 47

— Seismic Reflection Profiling
 and Side Scan Sonar
 - - - Seismic Reflection Profiling
 - · - · Side Scan Sonar
 — Day Number at 0001
 A & B see detailed station areas in section E

CONTENTS

| | <u>Page</u> |
|--|-------------|
| Preface | 1 |
| Cruise Objectives | 4 |
| Instrumentation | 5 |
| Navigation | 6 |
| Shipboard Acquisition, Reduction and Storage of Data | 7 |
| Contents of Shipboard Data Files | 10 |
| Editing of Data Files | 12 |
| Data Transfer to Lamont Format Cards | 14 |
| Data Presentation | 17 |
| References | 20 |
| Section A: 1:2,000,000 Profiles of Reduced Data and P.D.R. Records | |
| B: Listing of Navigation Points and 1:1,000,000 Track Charts | |
| C: Tables of Total Magnetic Field and Uncorrected Depth | |
| D: Tables of Magnetic Anomaly and Corrected Depth | |
| E: Station Position Tables | |

CRUISE OBJECTIVES

The principal objective of this cruise was to intensively sample the outcrop geology of the shallower banks on the Rockall Plateau. The major tool was a 1 metre I.G.S. drill with back up equipment comprising vibrocorer, rock corers, dredges and a stereo-camera. The three main areas for study were:-

(a) Rockall Bank

Previous cruises to the area had provided good geophysical control and defined the location of outcrops and sediment distribution. Objectives included sampling of in-situ rocks, superficial sediments and use of the asdic for structural mapping of the outcrops and observation of sediment distribution patterns.

(b) George Bligh and Hatton Banks

Previous seismic reflection profiles across these banks had shown outcropping basement at depths accessible to the available sampling equipment. The intention was to obtain in-situ rock for intercomparison of the geology of the three main banks of the Plateau.

It was planned to continuously seismic profile on all passage tracks using Bolt air-guns and in the shallow water areas to obtain high resolution seismic profiles using the ORE 3.5 kHz seismic profiler. The side-scan sonar was carried for continuous operation as a narrow beam echo-sounder in the deeper waters and for use as a support for bottom sampling and sediment distribution studies in all depths less than 300 fathoms. Magnetics and depth data were to be obtained on all tracks.

The results of Cruise 47 can be found by referring to (Ellett et al 1973), (Roberts et al 1973), (Miller et al 1973), (Roberts et al, in press) and (Roberts, in press).

INSTRUMENTATION

Magnetics - A Varian proton magnetometer was operated throughout the cruise, but broke down due to mechanical and electronic failures three times. The data was recorded in analogue form on a chart recorder and was also stored in digital form by the shipboard computer as two minute values averaged over a period of 30 seconds (i.e. 5 six second readings). Apart from the three malfunctions of the magnetometer the errors in stored total field values coincided with radio transmission from the ship. The erroneous data was corrected during the editing of the data files on board. No corrections were made for either daily variation or the effect of the ship's heading.

Bathymetry - An N.I.O. Mark III Precision Echo-Sounder with an N.I.O. Mark II towed fish was used to record bathymetry on a Mufax display at an assumed velocity of 800 fms/sec. It was operated continuously during the cruise. The records were manually digitised at five minute intervals. This data was manually entered into the computer system for reduction and storage.

NAVIGATION

The following navigational aids were used:-

(a) Satellite Navigation System using a Magnavox C/A 702 receiver working in conjunction with the shipboard IBM 1800 computer,

(b) Loran 'C' using a Decca Loran ADL21 receiver in the Rockall Area,

(c) Decca SW British Chain when in range.

The computer was used throughout the cruise to control the navigation and was checked daily with manually prepared track charts. The satellite navigation was used as the prime navaid throughout the cruise and gave about twenty acceptable fixes per day. Loran 'C' was logged by the computer but not used directly in determining the ship's position by the computer system.

Ship's position was determined from satellite fixes used in conjunction with a dead reckoning derived from the N.I.O. two component electromagnetic log and the ship's gyrocompass. At regular intervals the dead reckoning track was automatically adjusted by the computer to agree with the satellite fixes. The difference between the dead reckoning positions and the satellite positions was attributed to a 'current' which was used to compute adjusted values of ship's position at two minute intervals. These values were stored in the reduced data file (GBOF). As the computed 'current' can be considered the sum of actual ocean current, satellite fix error and e.m. log calibration error, all satellite fixes giving rise to a 'current' of greater than 2 knots were rejected as erroneous. After a track up date, the dead reckoning is started from the last accepted satellite fix.

SHIPBOARD ACQUISITION, REDUCTION AND STORAGE OF DATA

The basic configuration used during Cruise 47 is summarised in Fig. (1). The Sequential Sampling Program controls the sampling of the digital clock, gyrocompass, magnetometer, 2 component e.m. log and the meteorological instruments, and buffers the data to a raw data disk buffer. There are two of these buffers and every two minutes the sampling program switches buffer and initiates the Raw Data Manipulation Program to filter the sampled data, to yield two minute values of the sampled variables which together with the day number and time are written to the raw data disk file DATF (see Table 1). At this stage the program also updates the dead reckoning position of the ship and stores it in the processed data file GEOF.

When the satellite receiver locks on to a satellite, an interrupt is given to the computer which then reads the satellite data and stores it on disk. These interrupts occur every two minutes while the satellite passes over and after the completion of a pass a series of programs are executed to decode the information and to calculate the geographical position. A summary of this data is then stored on the satellite fix disk file SATF (see Table 2).

At intervals of the order of four hours the Track Adjustment Program is executed to update and adjust the dead reckoning to agree with the satellite fixes. Satellite fixes giving 'currents' of greater than 2 knots are ignored and adjusted values of position, course and speed made good and distance covered are written to the processed data file GEOF (see Table 3). At this stage the Data Reduction Program is also executed to reduce total magnetic field values to anomaly values by removal of the International Geomagnetic Reference Field (Mead 1970) and to correct the measured wind's velocity for the effect of the ship's velocity. These reduced values are also written to GEOF.

Depths are entered manually into the system through the P.D.R. Console as day number, time and depth in uncorrected fathoms. This data is written by the PDR Console Program to the depth data disk file DPC1 (see Table 4) and at regular intervals (usually at the time of running of the Track Adjustment Program) the Matthews Correction Program is executed to convert the depths to corrected metres. Computer approximated curves are used in the application of the correction (Howarth (1970)) and information about the time

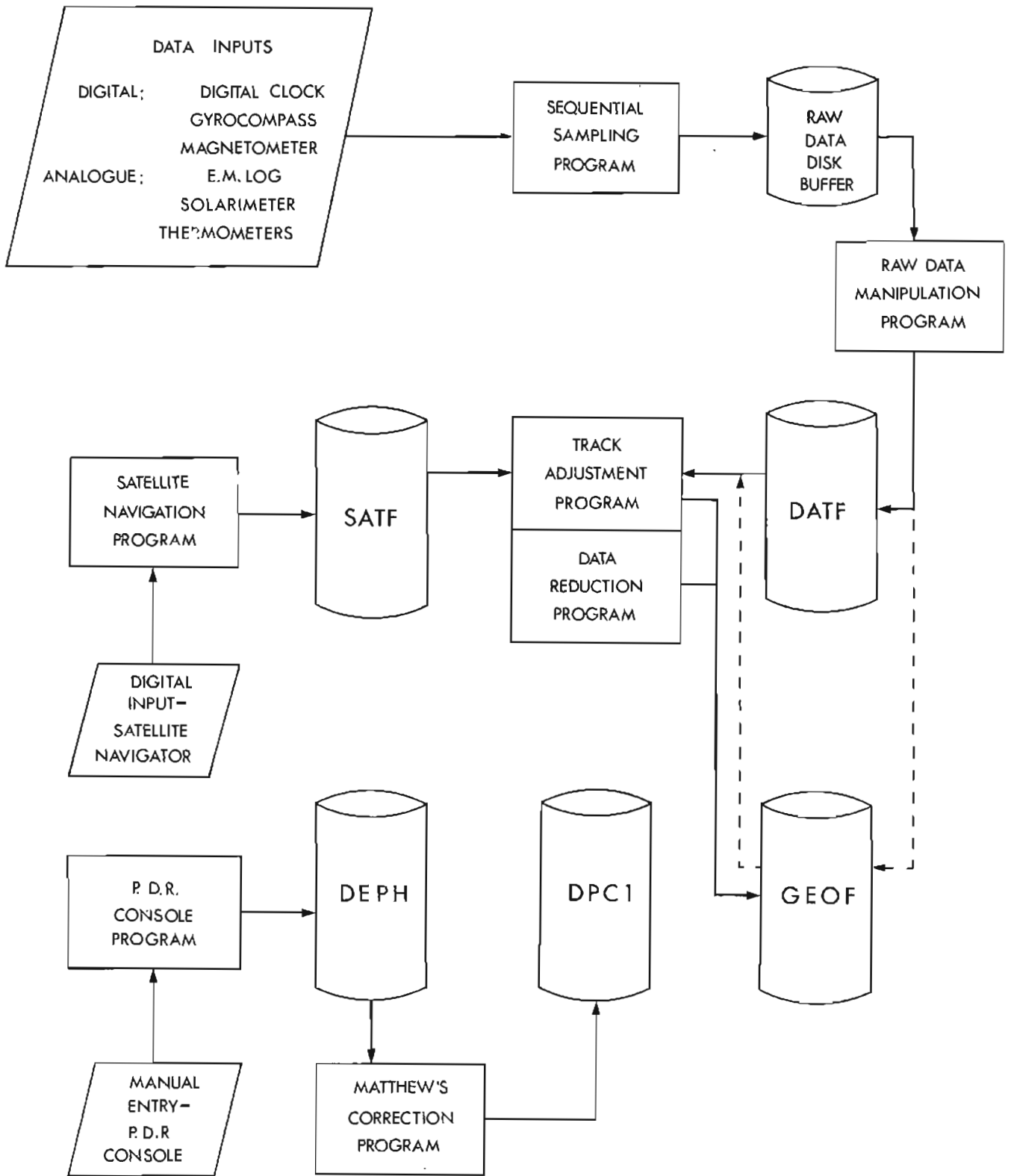


FIG (1) SHIPBOARD AQUISITION, REDUCTION & STORAGE OF DATA

of changing from one Matthews Area to another is usually inputted through the computer console.

General purpose plotting programs are available to display data stored on the disk files. It is possible to plot profiles of the observed variables against either time or distance, and also to plot Mercator track charts with, if required, plotted numerical values of an observed variable. During Cruise 47, a complete series of 1:1,000,000 track charts and profiles of geophysical and meteorological variables were produced. These were used both for on-the-spot interpretations and for identifying errors in the stored data.

CONTENTS OF SHIPBOARD DATA FILES

TABLE (1) - DATF - Raw Data File

15 words/record; nominal data frequency = 2 mins.

| Word | Field | Unit |
|------|--|-----------------|
| 1 | Day No. (G.M.T.) | - |
| 2 | Time (G.M.T.) | 0.1 mins |
| 3 | Ship's speed (North) through the water | 0.01 knots |
| 4 | Ship's speed (East) through the water | 0.01 knots |
| 5 | Relative wind speed (North) | 0.01 knots |
| 6 | Relative wind speed (East) | 0.01 knots |
| 7 | Solarimeter reading | ↑ |
| 8 | Starboard dry temperature | Scanned |
| 9 | Starboard dry-wet temperature | Digit |
| 10 | Port dry temperature | Values |
| 11 | Port dry-wet temperature | ↓ |
| 12 | Total magnetic field in gammas | gammas (-32000) |
| 13 | Ship's heading | 0.1 degrees |
| 14 | Relative humidity | 0.01% |
| 15 | Sea surface temperature | Digit value |

TABLE (2) - SATF - Satellite Fix File

10 words/record; nominal data frequency = 2 hours (approx.)

| Word | Field | Unit |
|------|---|------------|
| 1 | Day No. (G.M.T.) | - |
| 2 | Lock on time (G.M.T.) | 0.1 mins |
| 3 | Latitude - degrees | degrees |
| 4 | Latitude - minutes | 0.01 mins |
| 5 | Longitude - degrees | degrees |
| 6 | Longitude - minutes | 0.01 mins |
| 7 | Ship's velocity North | 0.01 knots |
| 8 | Ship's velocity East | 0.01 knots |
| 9 | Antenna Height (metres)*100+elevation (degrees) | |
| 10 | No. of messages received and frequencies used | |

TABLE (3) - GEOF - Processed Data File
16 words/record; nominal data frequency = 2 mins.

| Word | Field | Unit |
|------|--|---------------|
| 1 | Day No. (G.M.T.) | - |
| 2 | Time (G.M.T.) | 0.1 mins |
| 3 | Latitude - degrees | degrees |
| 4 | Latitude - minutes | 0.01 mins |
| 5 | Longitude - degrees | degrees |
| 6 | Longitude - minutes | 0.01 mins |
| 7 | Course made good overground | 0.1 degrees |
| 8 | Speed made good overground | 0.01 knots |
| 9 | Distance run from start of leg (0.01 n. mile/0-9999) | 0.01 n. miles |
| 10 | Distance run from start of leg (100's of n. miles) | 100 n. miles |
| 11 | Blank | |
| 12 | Corrected wind speed | 0.01 knots |
| 13 | Corrected wind direction | 0.1 degrees |
| 14 | Blank | - |
| 15 | Magnetic anomaly | gammas |
| 16 | Flag to indicate that Track Adjustment Program has been executed | |

TABLE (4) - DPC1 - Depth Data File
9 words/record; nominal data frequency = 5 mins. (approx.)

| Word | Field | Unit |
|------|--------------------|-----------|
| 1 | Day No. (G.M.T.) | - |
| 2 | Time (G.M.T.) | 0.1 mins |
| 3 | Latitude | degrees |
| 4 | Latitude | 0.01 mins |
| 5 | Longitude | degrees |
| 6 | Longitude | 0.01 mins |
| 7 | Uncorrected depths | fms |
| 8 | Corrected depths | fms |
| 9 | Corrected depths | metres |

EDITING OF DATA FILES

The Cruise 47 data stored on the disk files was edited on the ship and completed before leaving the ship. Data collected the previous day was checked daily. Computer tracks plus satellite fixes were plotted at 1 in 1,000,000 and compared directly with a manually updated track. This track was controlled by Loran 'C' and satellite, also bathymetric crossovers. Satellite fixes were rejected or reaccepted manually and the navigation updating programs rerun to correct the ship's track. Depths entered into the data files were listed and compared with the P.D.R. Mufax recorder and any errors detected were then corrected on the data file. Total magnetic field values stored on the computer were displayed in profile form and compared with the analogue chart recorder. Errors were thus detected and corrected.

Errors in bathymetry were caused mainly by human error, whereas magnetics, gyro, etc. seemed related to radio transmissions from the ship.

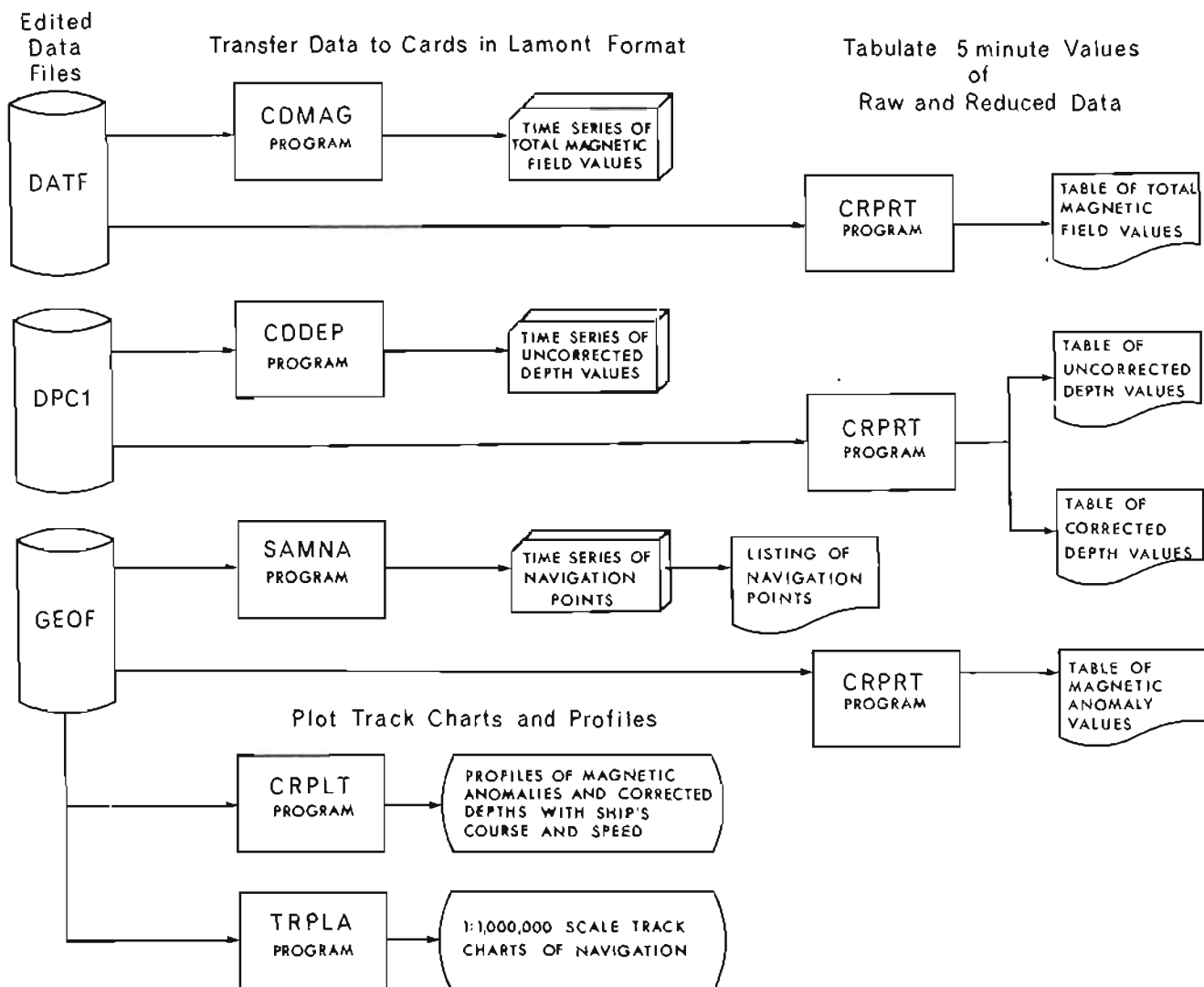


FIG.(2) LABORATORY STORAGE AND DOCUMENTATION OF DATA

DATA TRANSFER TO LAMONT FORMAT CARDS

Once edited the magnetic, bathymetric and navigational data stored on disk are sampled and output onto card in the standard Lamont format (Talwani, 1969). As much of the data handled at N.I.O. is in Lamont format, the laboratory series of programs for reducing and compiling magnetic data in particular is based around this standard card input. The format has a certain degree of national and international acceptance and as such is useful for data exchange purposes. The data is stored on cards as a time series of raw data points which are allowed to be at unequal time intervals and separate decks are prepared for bathymetry, magnetics and navigation data. Each deck consists basically of a series of day cards each followed by a series of data cards.

(a) Magnetics

Magnetic data is read off the DATF files as total magnetic field using the CDMAG program which outputs a Lamont card deck of the form:-

Day Card: IDAY,IMON,IYR,TZ,LB,LC,JCT in the format (I2,I3,I5,F5.0,I3,I2,I5)

where IDAY,IMON,IYR = Date as day, month, year

TZ = Time Zone in hours (set as 0.0)

LB = No. of magnetic data cards following this day card

LC = No. of readings on last magnetic data card following this day card

JCT = First two digits of the total field reading in gammas

Followed by a series of Magnetic Data Cards each in the form

(JHR(I),JMIN(I),JG(I), = 1,9) in the format 9(I2,I2,I3,1X)

where JHR,JMIN = Time in hours and minutes

JG = Last three digits of total field reading in gammas

New Day Cards are punched when either the date changes or the first two digits of total field change. CDMAG outputs one data point for each 2 minute total magnetic field reading present on the DATF files and ignores blank fields.

(b) Bathymetry

Bathymetry data is read off the DPCL files as uncorrected depth in fathoms (at 800 fms/sec) using the CDDEP program which outputs a Lamont card deck of the form:-

Day Card: IDAY,IMON,IYR,TZ,LB,LC,NMZ in the format (I2,I3,I5,F6.1,2X,
I3,I2,I5)

where IDAY,IMON,IYR = Date as day, month, year

TZ = Time Zone in hours (set as 0.0)

LB = No. of bathymetric data cards following
this day card

LC = No. of readings on last bathymetric
data card following this day card

NMZ = Matthews Area Number relevant to this
day card

Followed by a series of Bathymetric Data Cards each in the form:-

(JHR(I),JMIN(I),JG(I),I = 1,8) in the format 8(I2,I2,I5,1X)

where JHR,JMIN = Time in hours and minutes

JG = Depth in uncorrected fathoms

New Day Cards are punched when either the date or Matthews Area changes. CDDEP outputs one data point for each depth value stored on the DPC1 files. Information about changes in Matthews Area is input to CDDEP from a manually prepared card deck.

(c) Navigation

Navigation data is sampled off the GEOP files using the SAMNA program which outputs a Lamont card deck of the form:-

Day Card: IDAY,IMON,IYR,TZ,LB in the format (I2,I3,I5,F5.0,1X,I4)

where IDAY,IMON,IYR = Date as day, month, year

TZ = Time Zone in hours (set as 0.0)

LB = No. of navigation data cards following
this day card

Followed by a series of Navigation Data Cards each in the form:-

JHR,JMIN,LAT,AT,LONG,ONG in the format (I2,I2,I4,F5.2,I5,F5.2)

where JHR,JMIN = Time in hours and minutes

LAT,AT = Latitude in degrees and minutes (to 0.01 min)

LONG,ONG = Longitude in degrees and minutes (to 0.01 min)

New Day Cards are punched when the date changes. Navigation points are not punched for each 2 minute geographic position in the GEOP file. Instead SAMNA samples the file and only selects a sufficient number of these 2 minute values so as to define the track covered to within 0.5 n. miles assuming a linear interpolation between each selected point. The basic operation of the program is as follows:- the first 2 minute geographic position in the GEOP file is taken as the first navigation point and the file is read until a 2 minute value is encountered eight or more minutes later. This is then taken

as the first temporary navigation point and the file is read until a 2 minute geographic position is obtained that either (a) departs by more than 0.5 n. miles from the position estimated by extrapolation from the preceding navigation point and the temporary navigation point or (b) is more than 30 n. miles from the preceding navigation point. The 2 minute position immediately preceding this is selected as a new navigation point. A new temporary navigation point is then chosen eight or more minutes later and a similar procedure is adopted for selecting the next navigation point. The whole GEOF file is sampled in this manner and the data for each navigation point is punched out on card.

DATA PRESENTATION

This report is intended to meet as effectively as possible the varying requirements of the personnel most likely to make use of the collected bathymetric and magnetic data of Cruise 47. Because of the large volume of data involved it is not considered practical to include listings of the original disk data files. The data is presented instead at three levels of processing - summarised listings of raw data, summarised listings of reduced data, and profiles of the reduced data. The computing aspects of the data presentation are summarised in Fig. (2). It is hoped that when used with either the 1:1,000,000 track charts or the listing of the navigation points produced by the SAMNA program, the data listings should satisfy the needs of those wishing either to incorporate the data into compilation charts or to perform further computer orientated calculations on the data. The 1:2,000,000 profiles are intended for those wishing to make a more direct scientific interpretation of the data and to this end the profiles are supplemented with a track chart at the same scale and overlain on a bathymetric chart. Reduced copies of the original P.D.R. records are also included in the report for those wishing to study the bathymetry in more detail than is given by either the profiles or the listings.

Profile Location Sheet

The ship's track for Cruise 47 has been manually prepared on a bathymetric chart of 1 in 2,000,000 at 57°N. Except for the 100 fathom contour, the contour interval chosen was 500 fathoms so as to illustrate the prominent features of the sea floor relief and to provide a context in which to study the profiles presented in Section A. The profiles have been plotted at the same distance scales as the profile location sheet and each is identified on the track by a circled figure representing the start of the profile. Changes in day number are also shown on the tracks by a mark at 0000 hrs on the new day which is annotated with the new day number. Details of the stations are shown on a 1:1,000,000 insert on the profile location sheet. Section A contains profiles together with reduced copies of the original P.D.R. records. Magnetic anomaly, corrected depth and course and speed made good were plotted from the edited GEOF file using the CRPLT program. The parameters are each plotted against distance run along track in nautical miles from the start of a leg - the distance being scaled to a Mercator

Chart projection at 1:2,000,000 at 57°N for tracks north of 48°N so that the profiles can be directly overlain on the profile location sheet. The distance run axis is marked every 100 n. miles and annotated every 500 n. miles. A time axis in G.M.T. is also included so that the profiles can be correlated with the P.D.R. records, and with the tabular listings of data in Sections C and D. Magnetic anomaly is plotted at a scale of 400 γ/inch with a nominal range of from -600 γ to 600 γ. However, this range is automatically adjusted by CRPLT for each profile so as to cope with the range of data values in the GEOF file. Each 2 minute magnetic anomaly value is plotted but the pen is lifted each time there is a data gap in excess of 4 minutes. Corrected depth is plotted at a scale of 2000 fms/inch with a nominal range of 0-4000 fms which is automatically reduced if more space is required for the magnetic profile. The vertical exaggeration of the bathymetric profile is 13.9:1 at 57°N. As depth is not continuously recorded at 2 minute intervals each depth reading is marked on the profile by a small tick and successive readings are joined by a straight line. Thus gaps in data appear as straight lines without tick marks.

Each profile is accompanied on its facing page by a reduced copy of the relevant section of the P.D.R. record. As the P.D.R. records against time and not distance, it is not practical to provide a one to one correspondence in horizontal axis scale between the profiles and the P.D.R. records. Correlations between the two have to be made by time and to this end the P.D.R. records are annotated with hour marks. The basic five minute interval marks produced by the P.D.R. can be discerned as vertical lines on the original record. The records have also been annotated with the recording depth phase of the P.D.R. and the 100 fathom lines within this phase are discernible on the original record as horizontal lines.

Section B contains a listing of the navigation points and computer generated navigation track charts. The navigation points were selected from the GEOF file using the SAMNA program and provide a linearly interpolatable track to within 0.5 n. miles of that contained in the GEOF file. The track charts were plotted from the two minute positions in the GEOF file using the TRPLA program and are scaled at 1:1,000,000 at 57°N. Each hour is marked on the track and annotated with time (in hours and minutes G.M.T.) and day no. The first position plotted on each chart is similarly annotated. So as to provide some indication of positional control, the positions of the accepted satellite fixes were automatically plotted on the track charts as small squares and each is annotated by time in hours and minutes.

Section C contains tabulated 5 minute value listings of the raw magnetic and bathymetric data. All data presented in Sections C and D has been produced using the program CRPRT on the appropriate data file. The program samples the file and tabulates values of the selected parameter itself, or a simple function of it, at 5 minute intervals. Where no parameter value is present on the five minute mark the file is searched for values either side of the mark up to but not including the two neighbouring five minute marks. An interpolated value is then produced for that five minute mark but if values are not available either side of that time the field is left blank. Once the five minute values have been selected the file is then searched for maximum and minimum values. If a maximum or minimum value is found that is 3 or more parameter units outside the range of two successive five minute values, it is overwritten onto the field of the nearest five minute mark and is followed by an asterisk and the time of the occurrence of the maximum or minimum (recorded only as minutes past the hour). Section C thus contains the total magnetic field values accessed from the DATP file and the uncorrected depth in fathoms as accessed from the DPCL file.

Section D contains tabulated 5 minute value listings of the reduced magnetic and bathymetric data. Magnetic anomaly (total magnetic field minus the International Geomagnetic Reference Field) is tabulated from the GEOP file and the corrected depths in fathoms and metres from the DPCL file.

REFERENCES

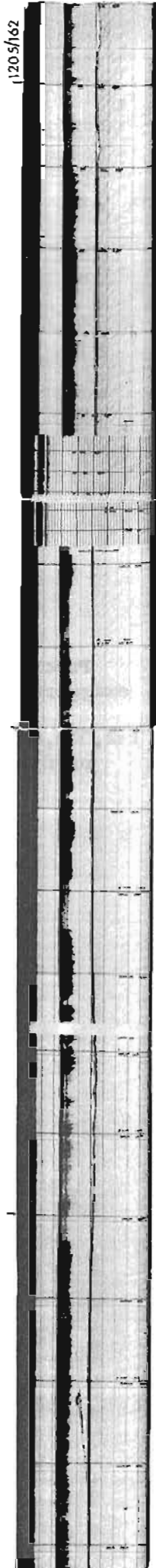
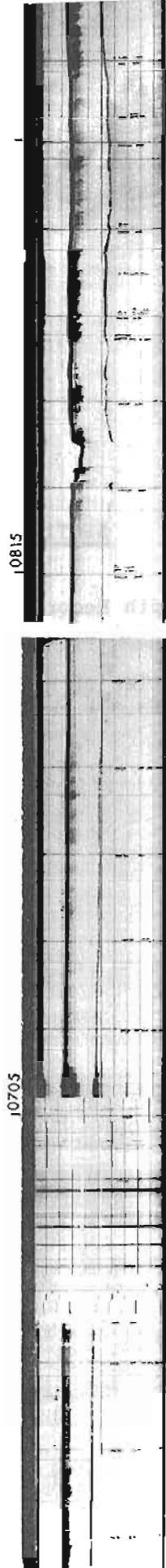
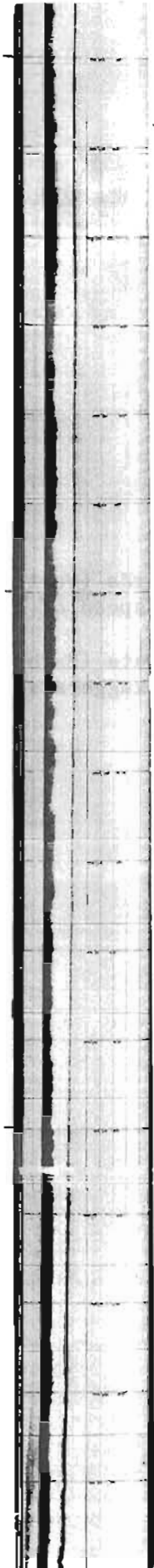
- Bark, C. and Drake, C.L. (editors), 'Structural evolution of the continental margins of the British Isles and Rockall Plateau' in Continental Margins of the World, Springer Verlag (in press).
- Ellett, D.J. and Roberts, D.G. (1973), 'The overflow of Norwegian Sea Deep Water across the Wyville-Thomson Ridge', Deep-Sea Research, 20(9), 819-835.
- Howarth, R.A. (1970), 'Computer Approximations for Matthews Areas', N.I.O. Internal Report No. N22.
- Mead, G.D. (1970), 'International Geomagnetic Reference Field in Dipole Co-ordinates', J. Geophys. Res., 75, No. 22.
- Miller, J.A., Matthews, D.H. and Roberts, D.G. (1973), 'Rock of Grenville Age from Rockall Bank', Nature Physical Science, 246, (152), 61.
- Roberts, D.G., 'Marine Geology of the Rockall Plateau and Trough', Phil. Trans. Roy. Soc. Lond. A (in press).
- Roberts, D.G., Hogg, N.H., Bishop, D. and Flewelling, C., 'Moating around Seamounts in the Rockall Trough', Deep-Sea Research (in press).
- Roberts, D.G., Arduis, D.A. and Dearnley, R. (1973), 'Pre-Cambrian rocks drilled on the Rockall Bank', Nature Physical Science, 244, (132), 21-23.
- Talwani, M. (1969), 'A Computer System for the Reduction, Storage and Display of Underway Data acquired at sea', Lamont-Doherty Geological Observatory Technical Report No. 1.

SECTION A

Precision Depth Recorder Records (Vertical
exaggeration 5.18:1 at a ship's speed of 10 kts)

1:2,000,000 Profiles of Reduced Data (Bathymetric
profiles at 13.9:1 vertical exaggeration)

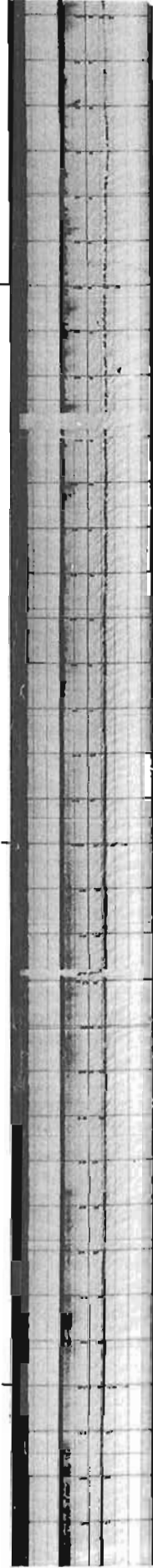
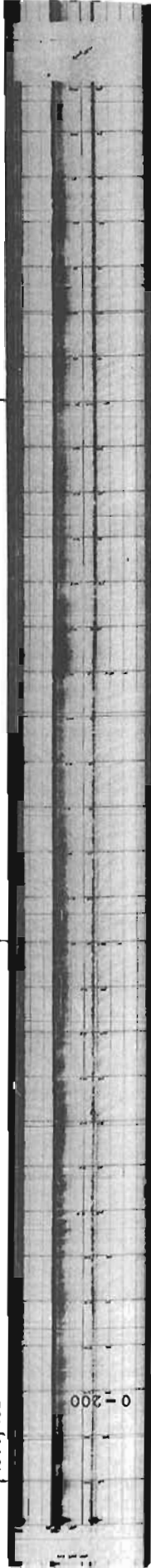
1



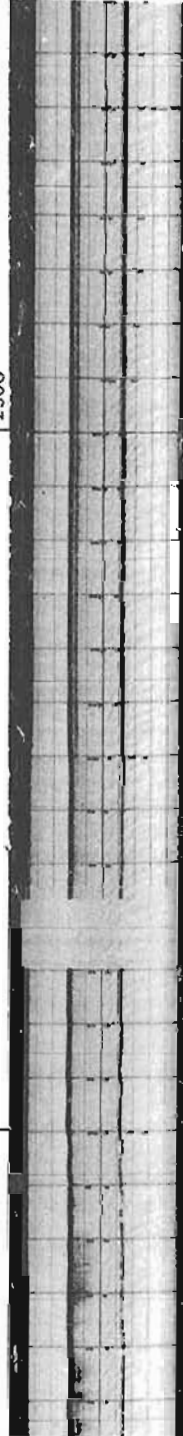
① CONT.

1600/162

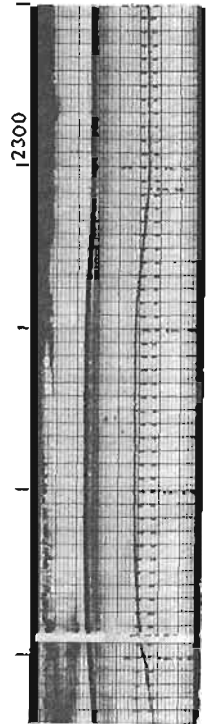
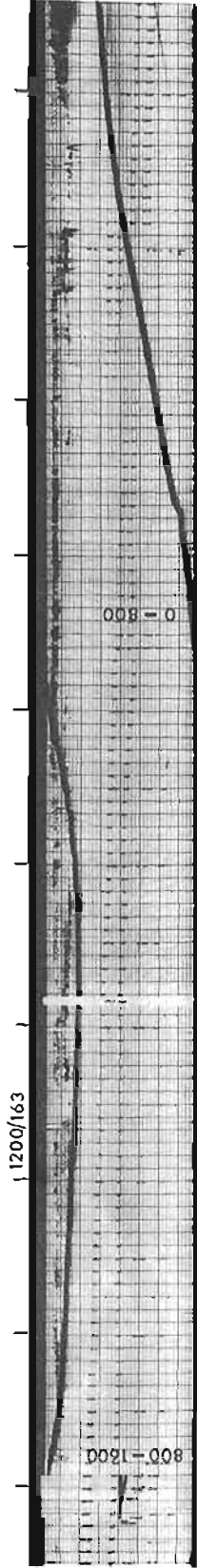
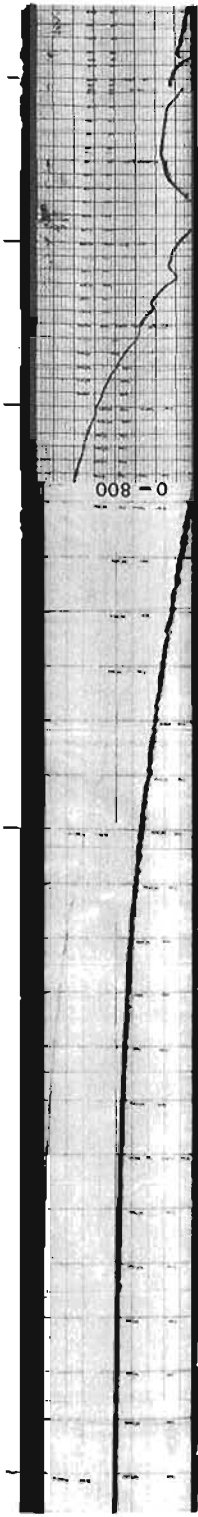
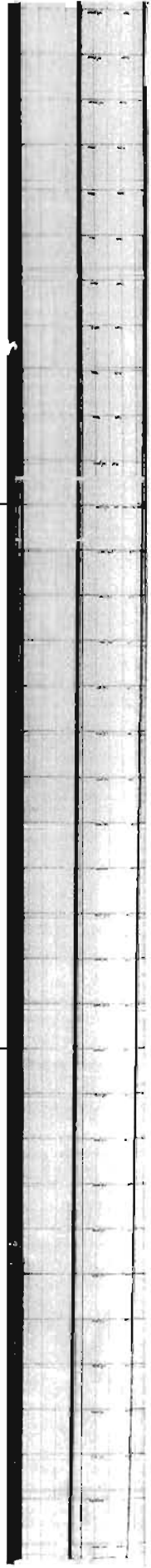
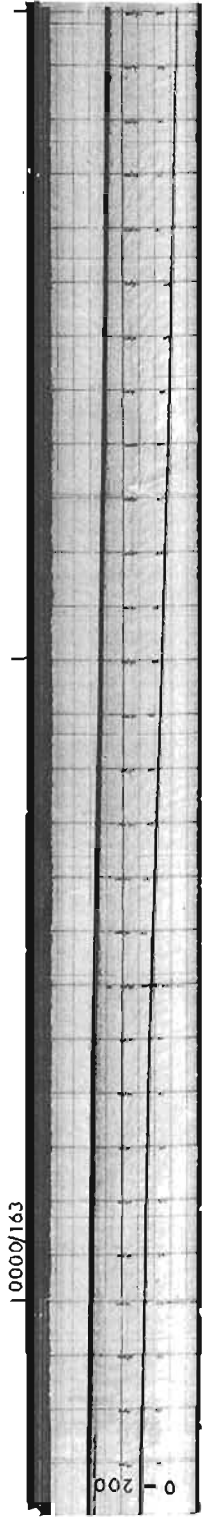
0-200



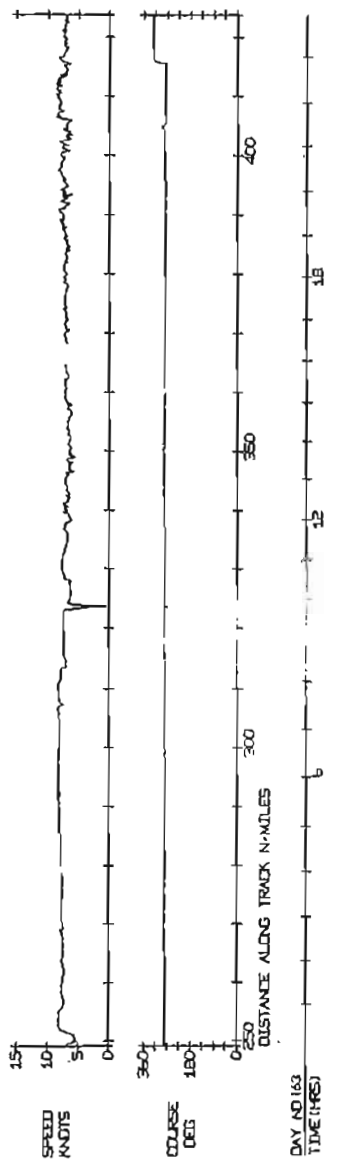
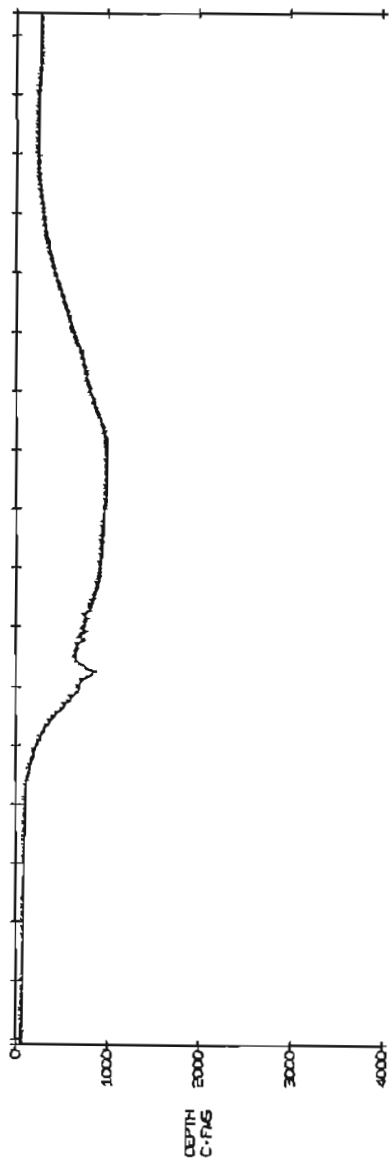
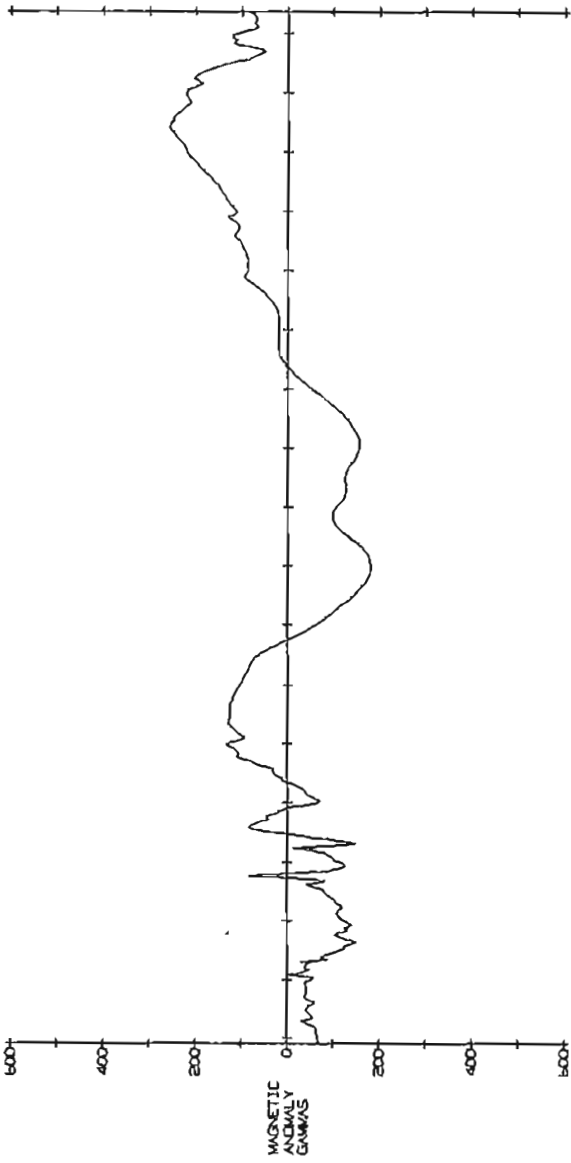
2300

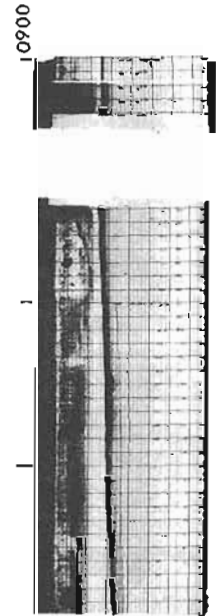
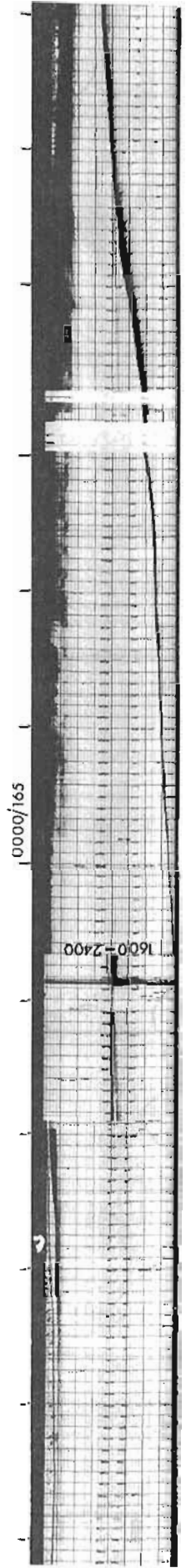
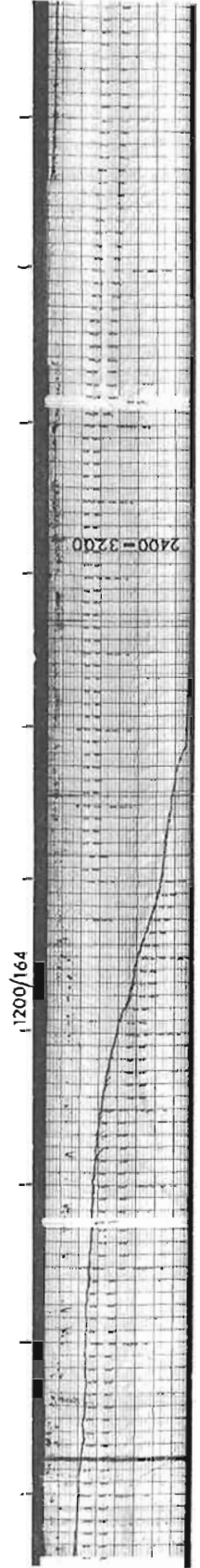
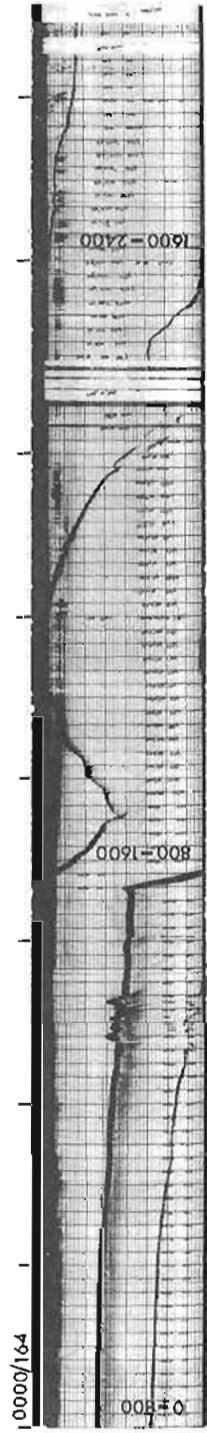


2

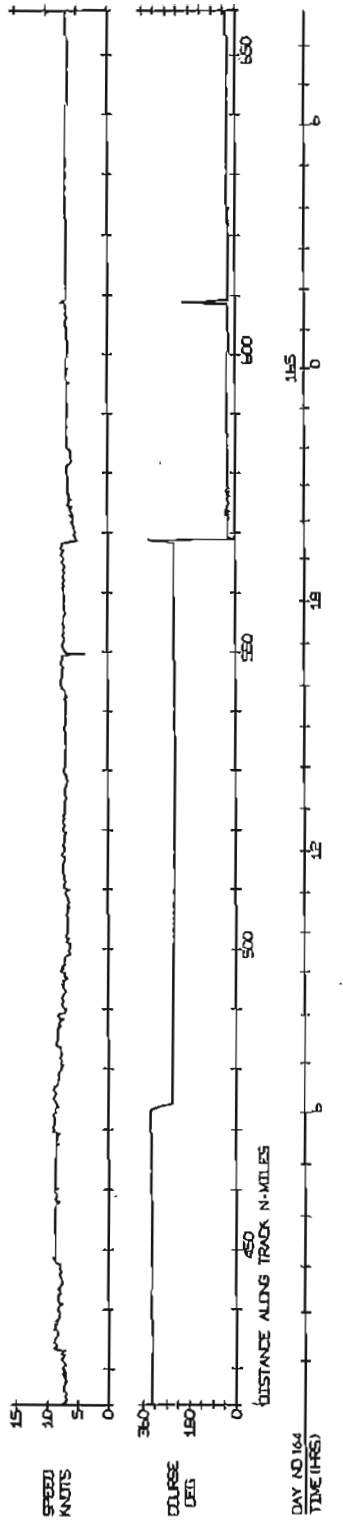
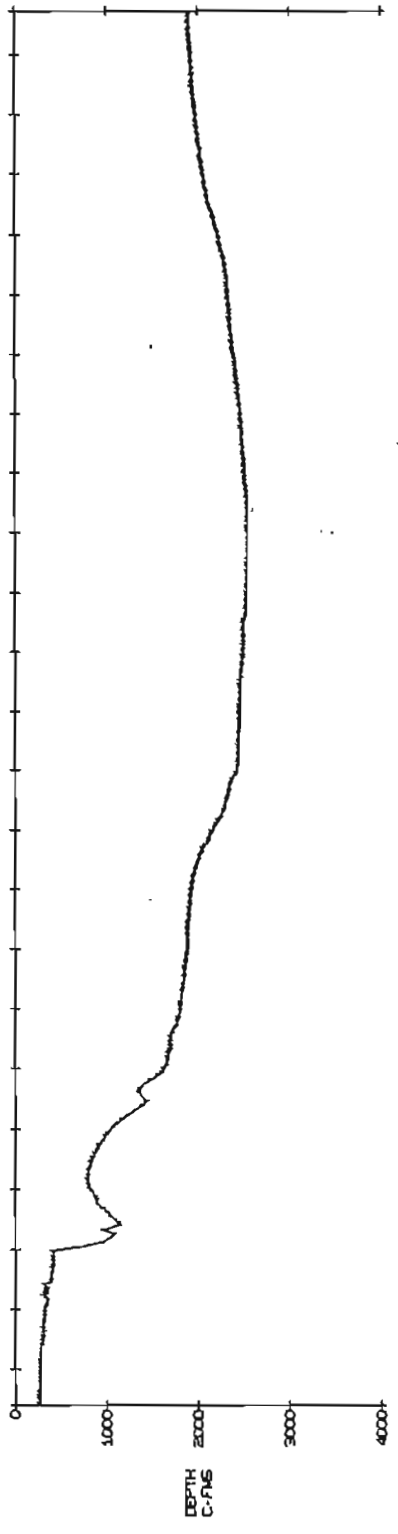
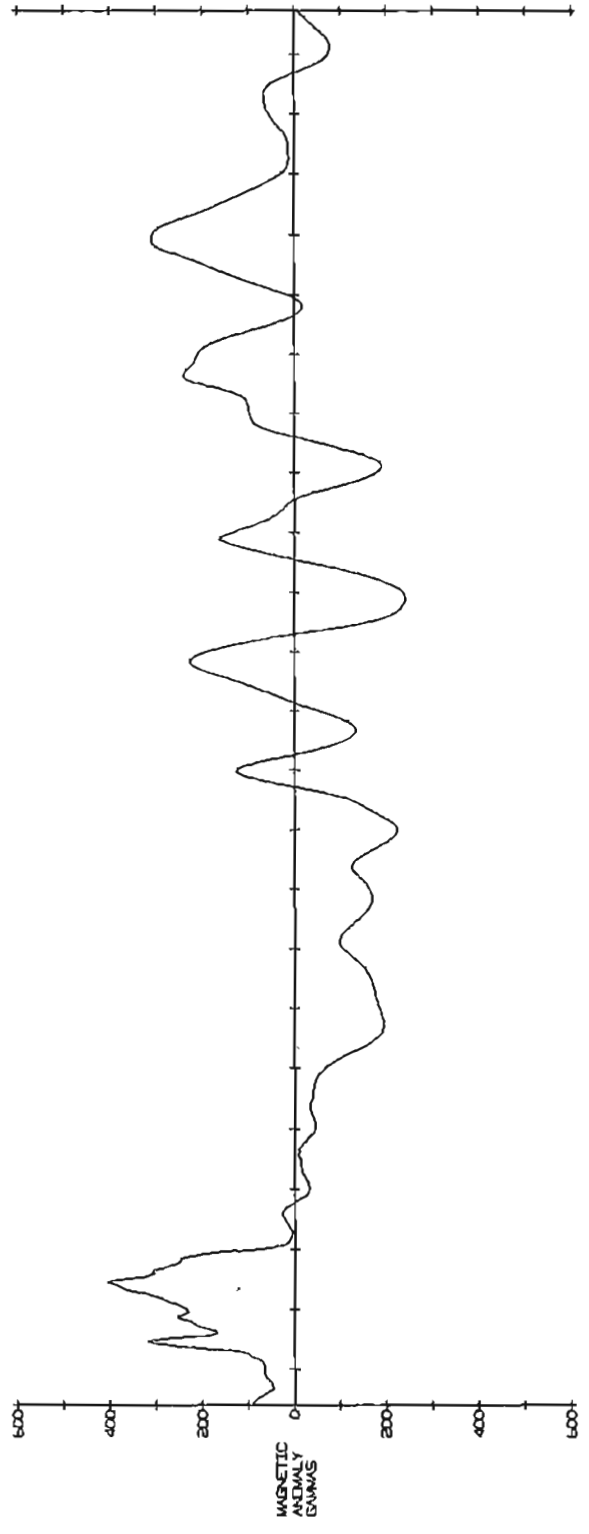


2

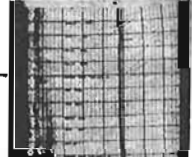
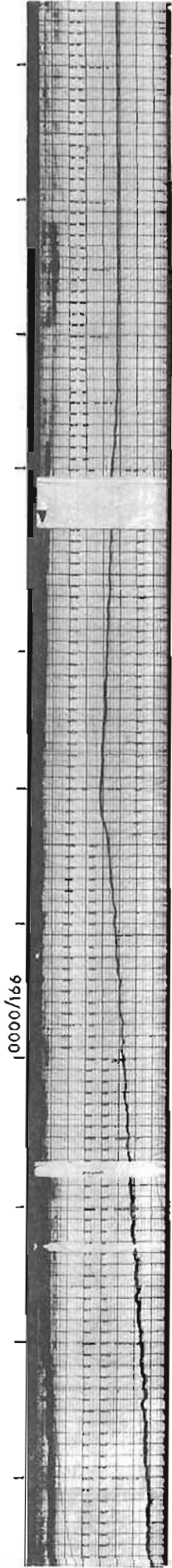
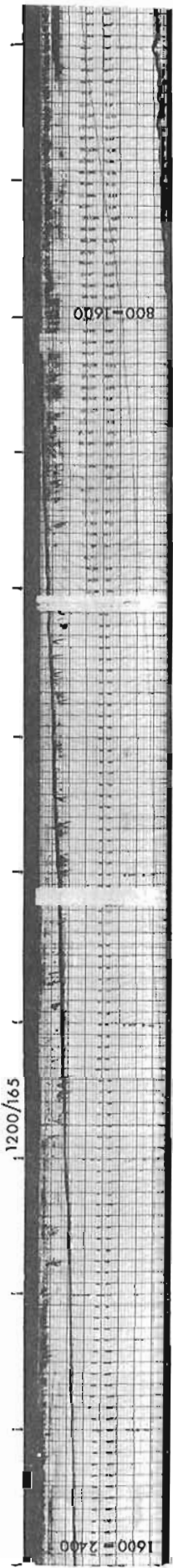




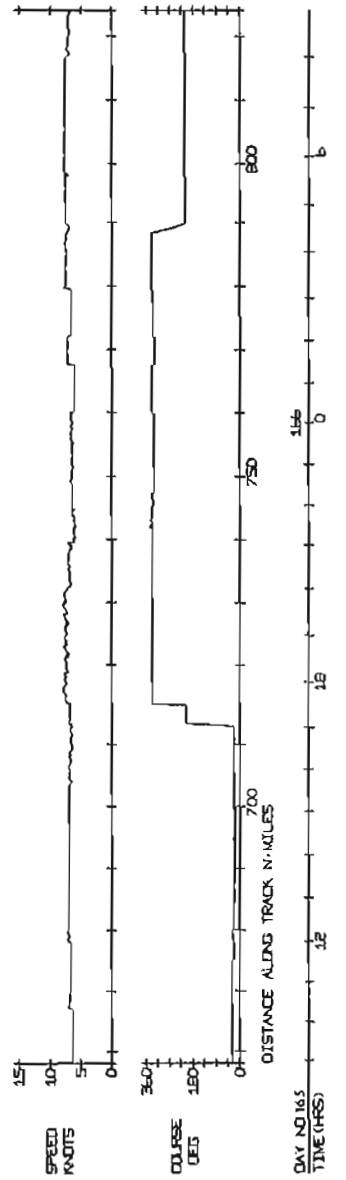
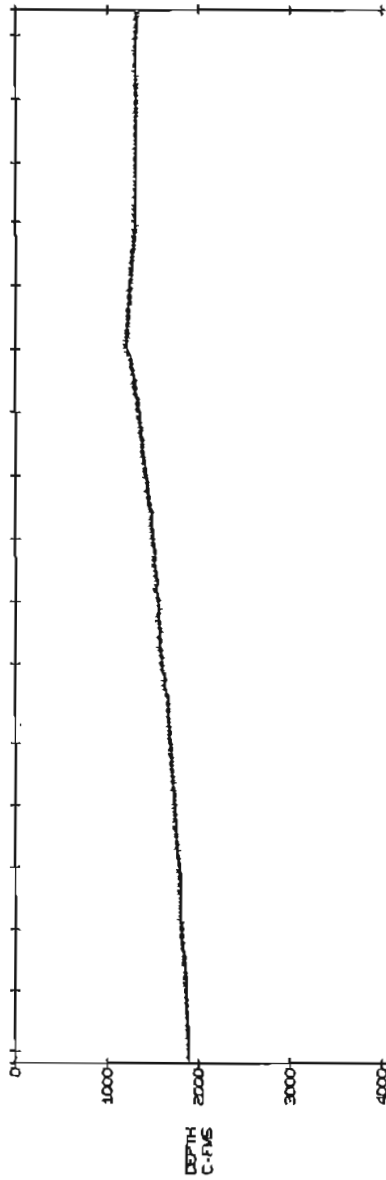
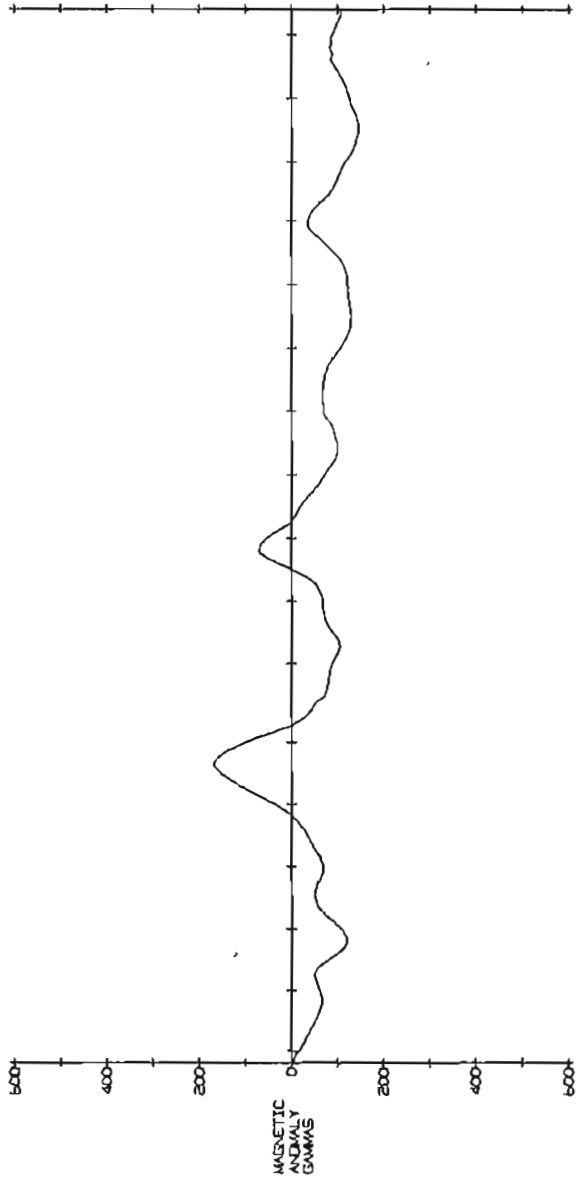
3

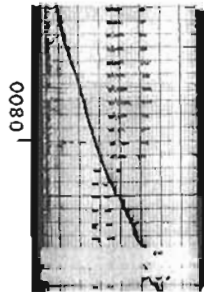
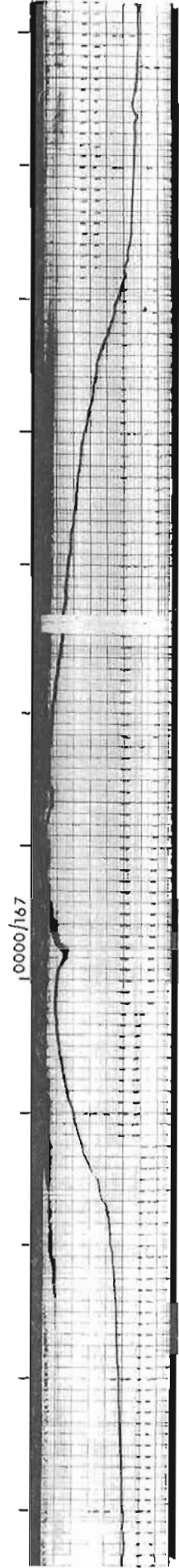
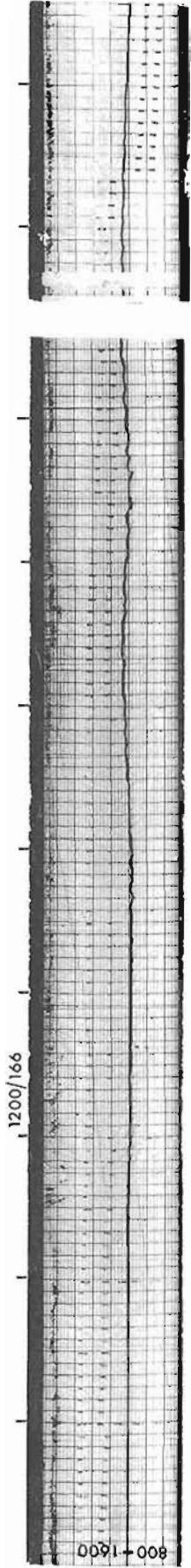


4

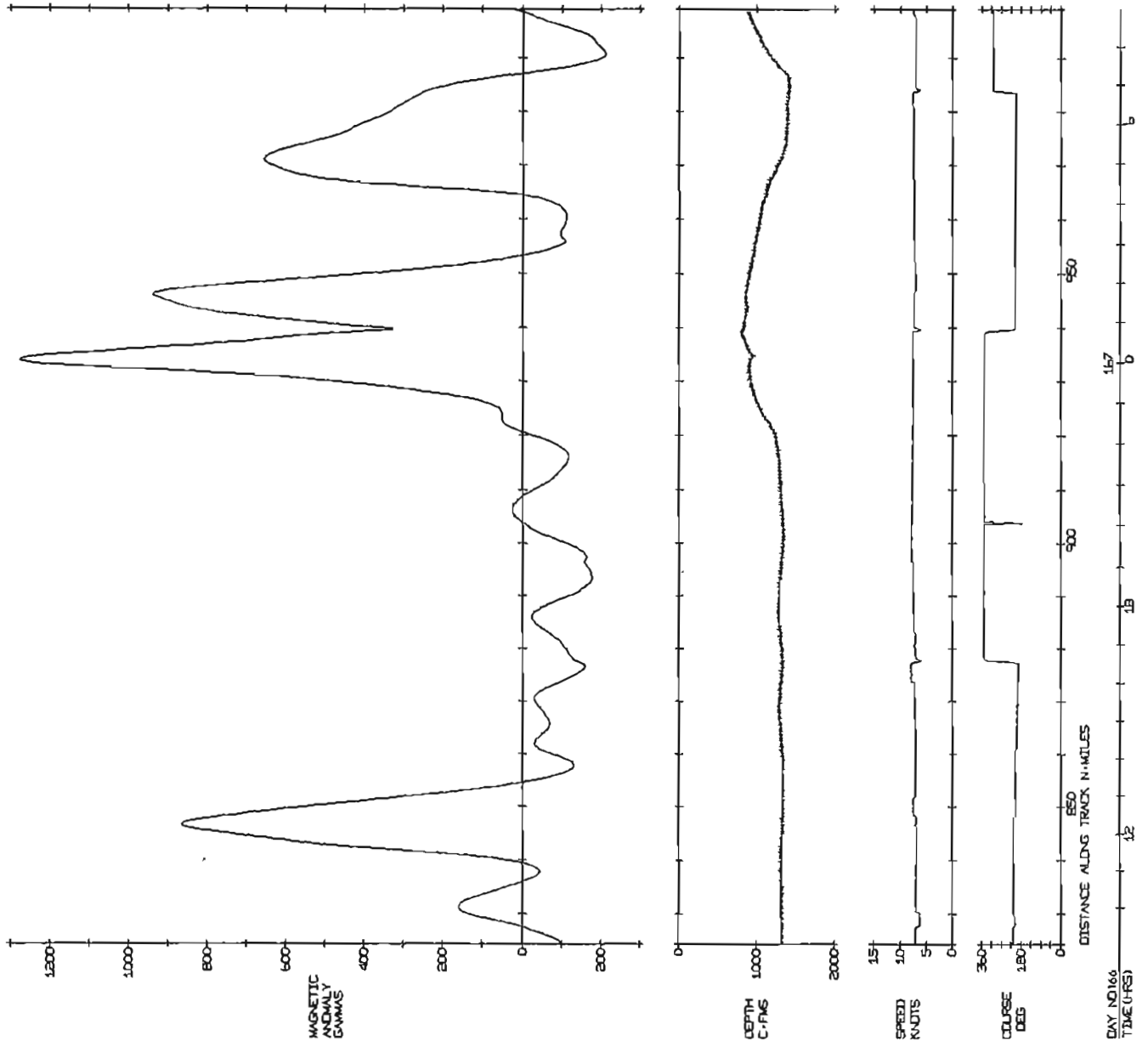


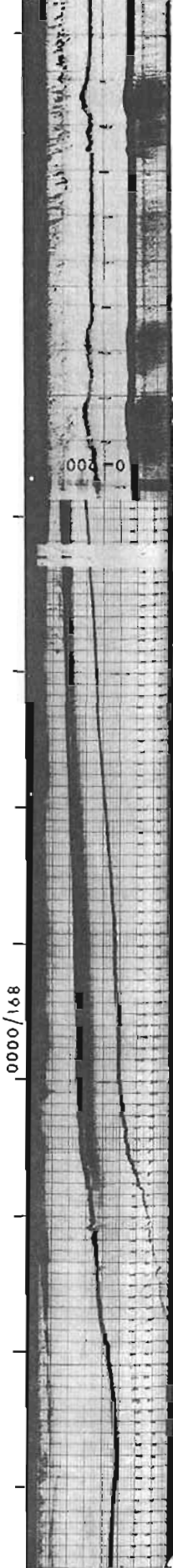
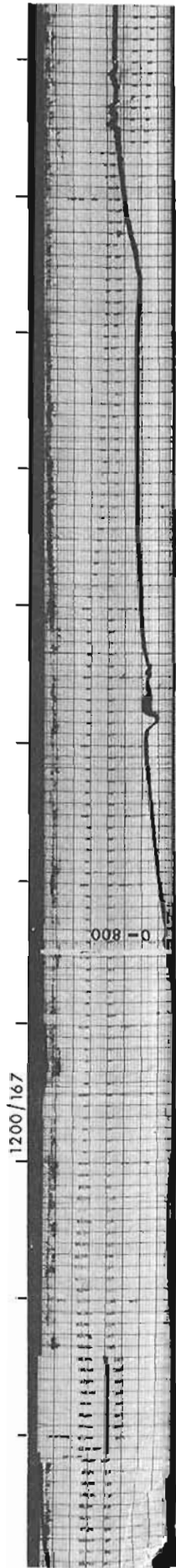
④



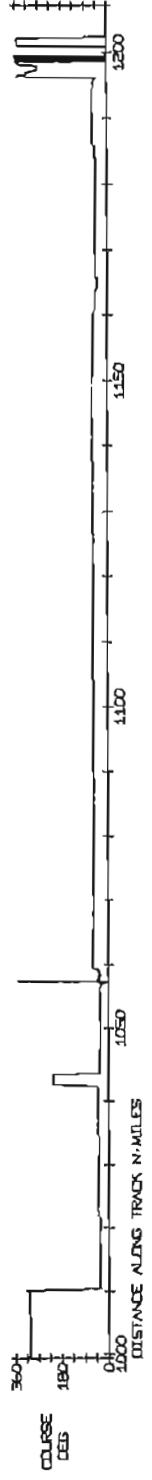
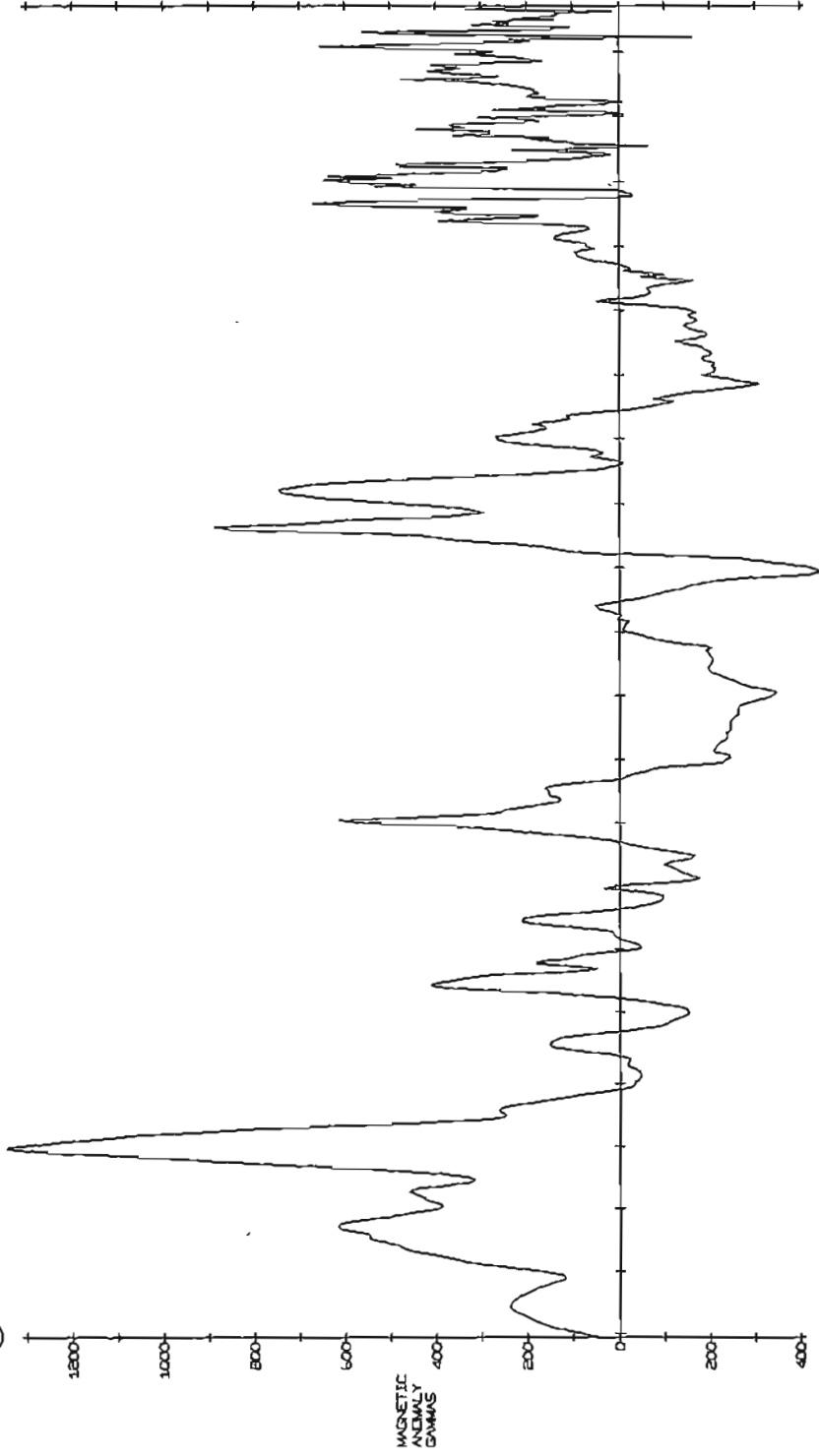


5



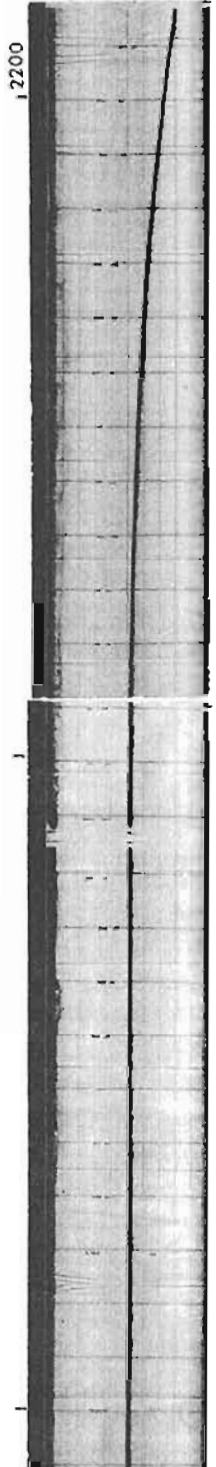
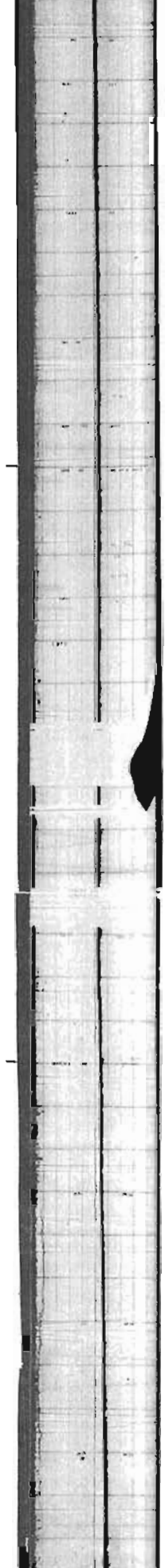
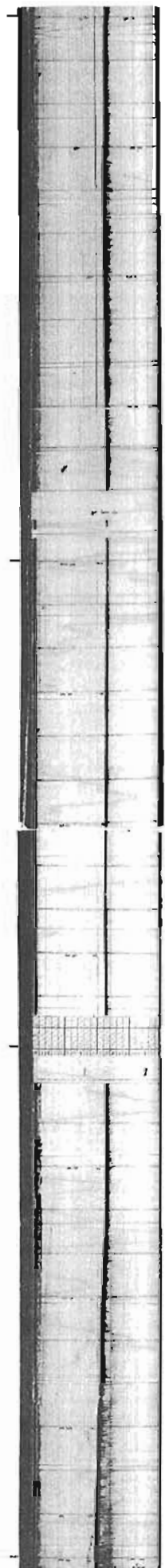
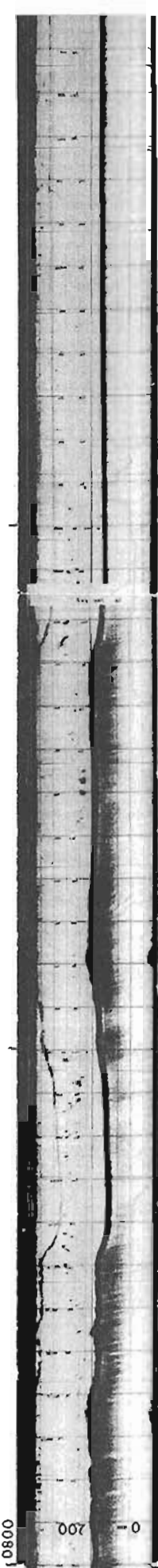


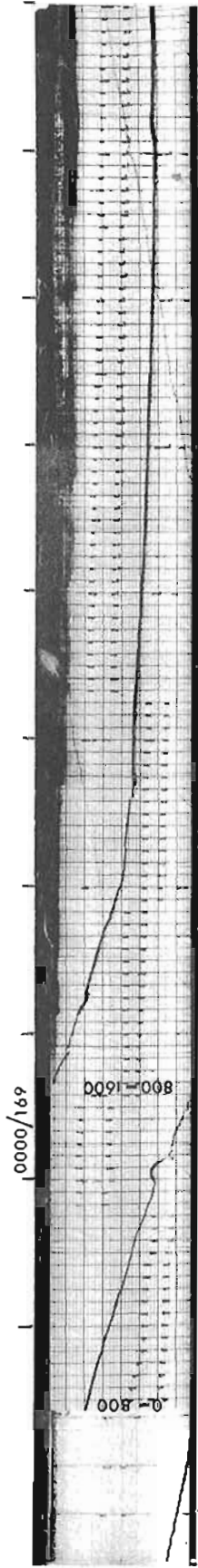
6



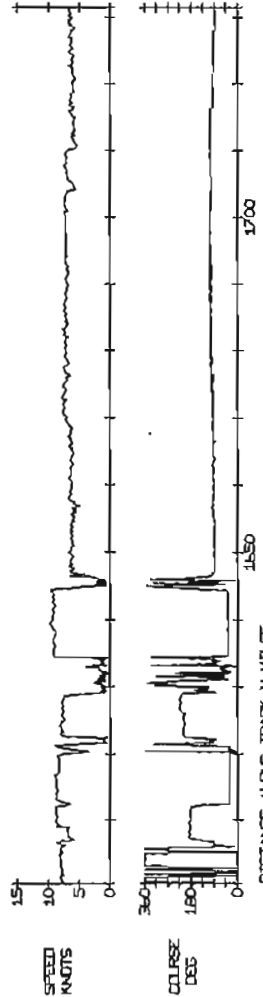
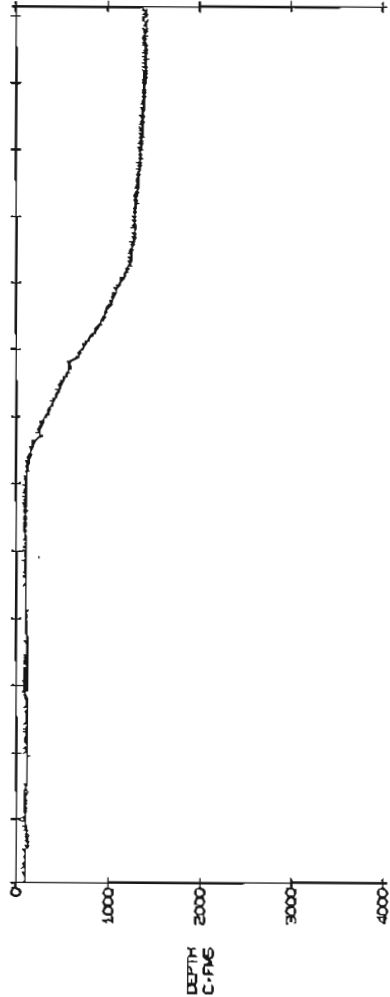
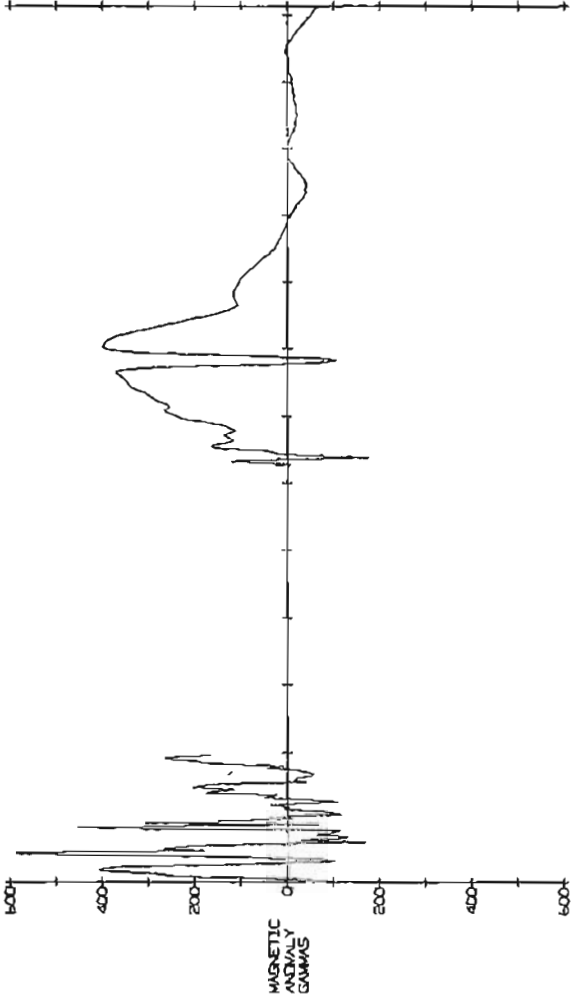
DAY NO167
TIME (HRS)

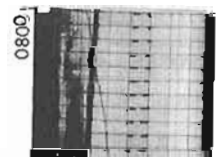
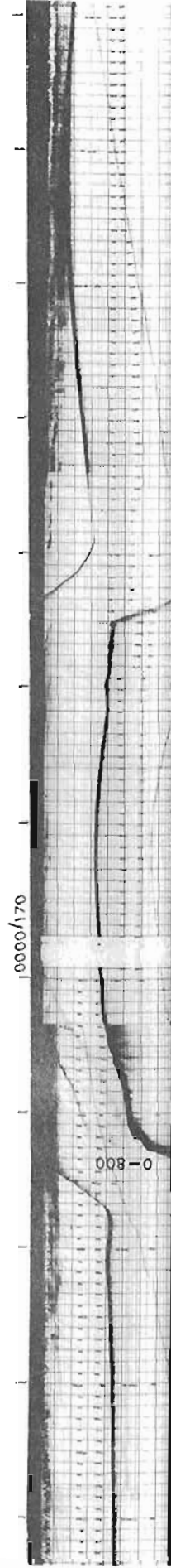
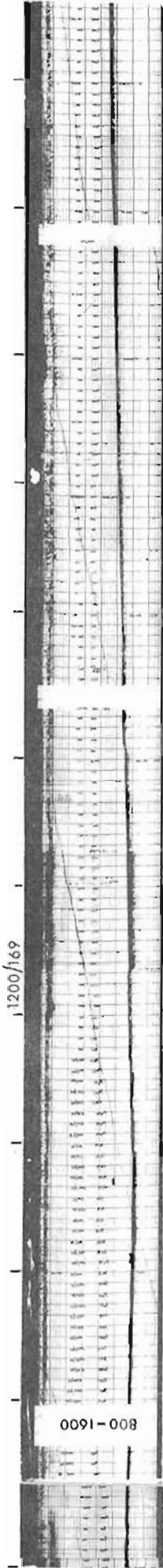
7



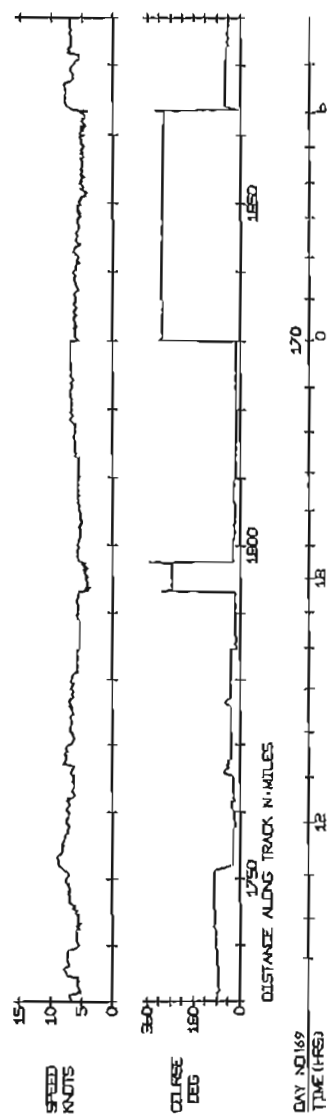
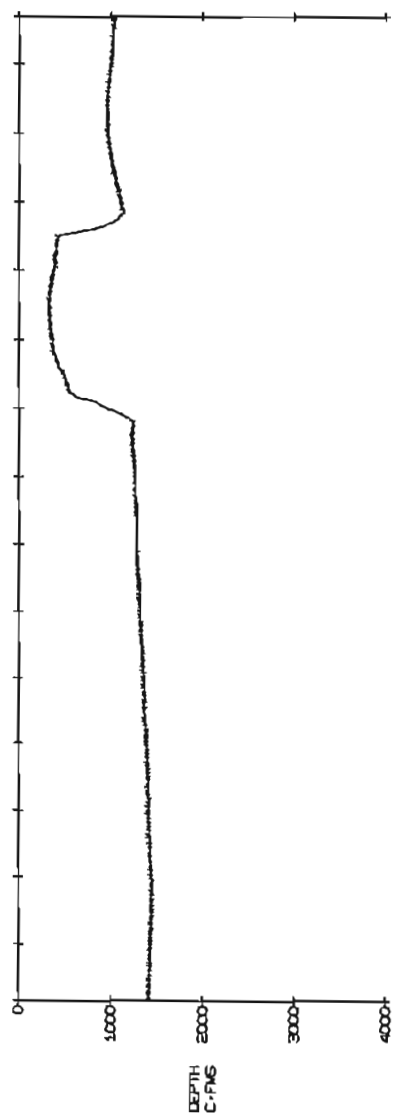
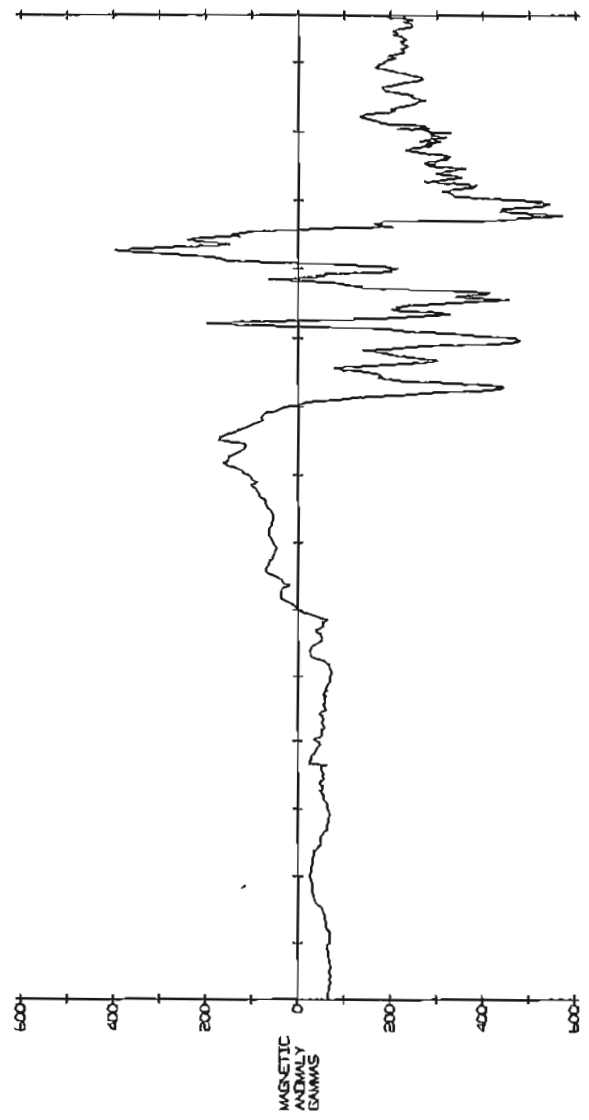


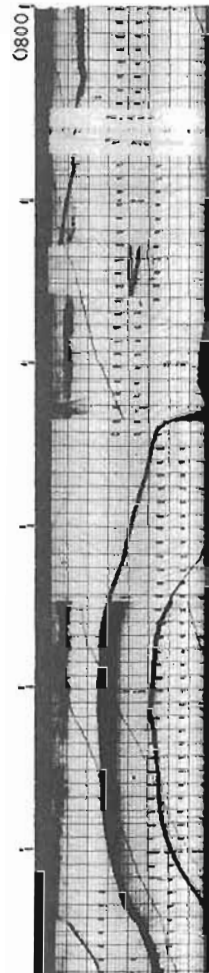
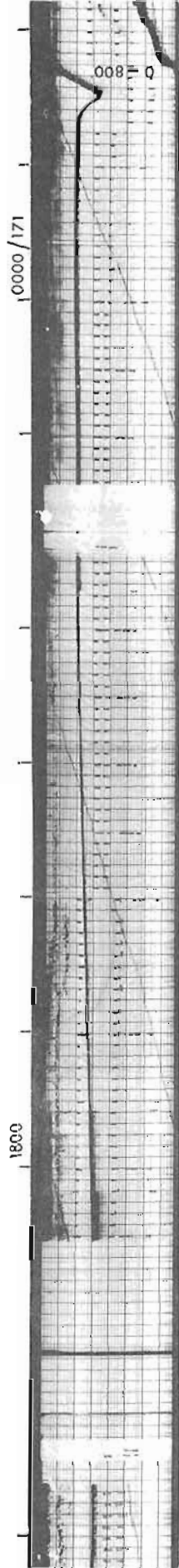
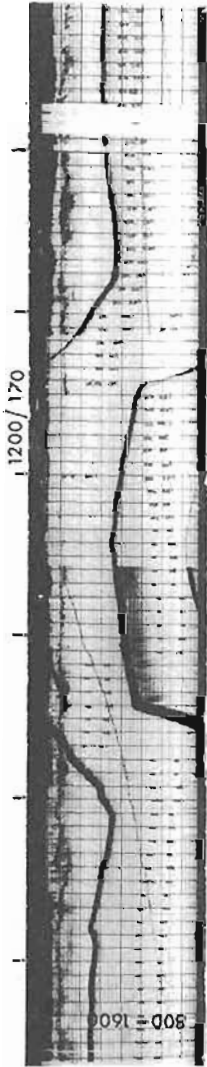
7



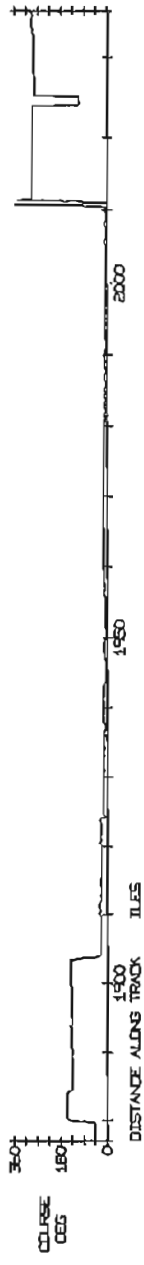
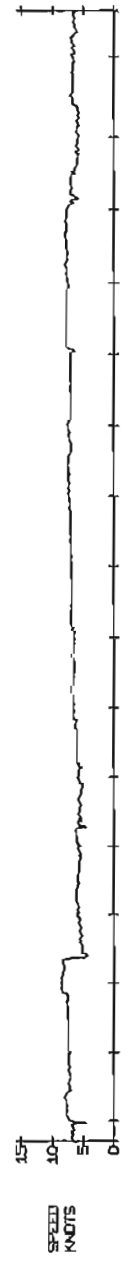
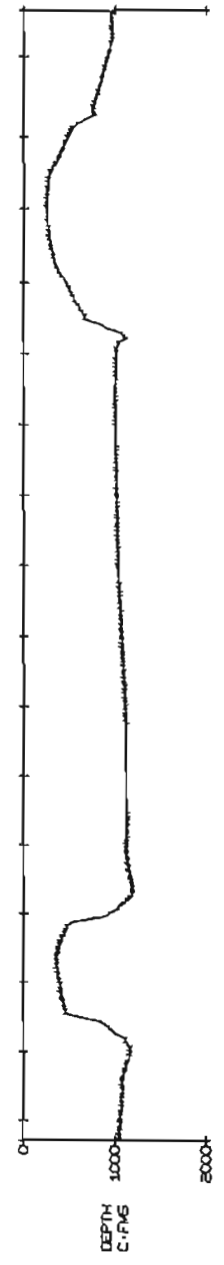
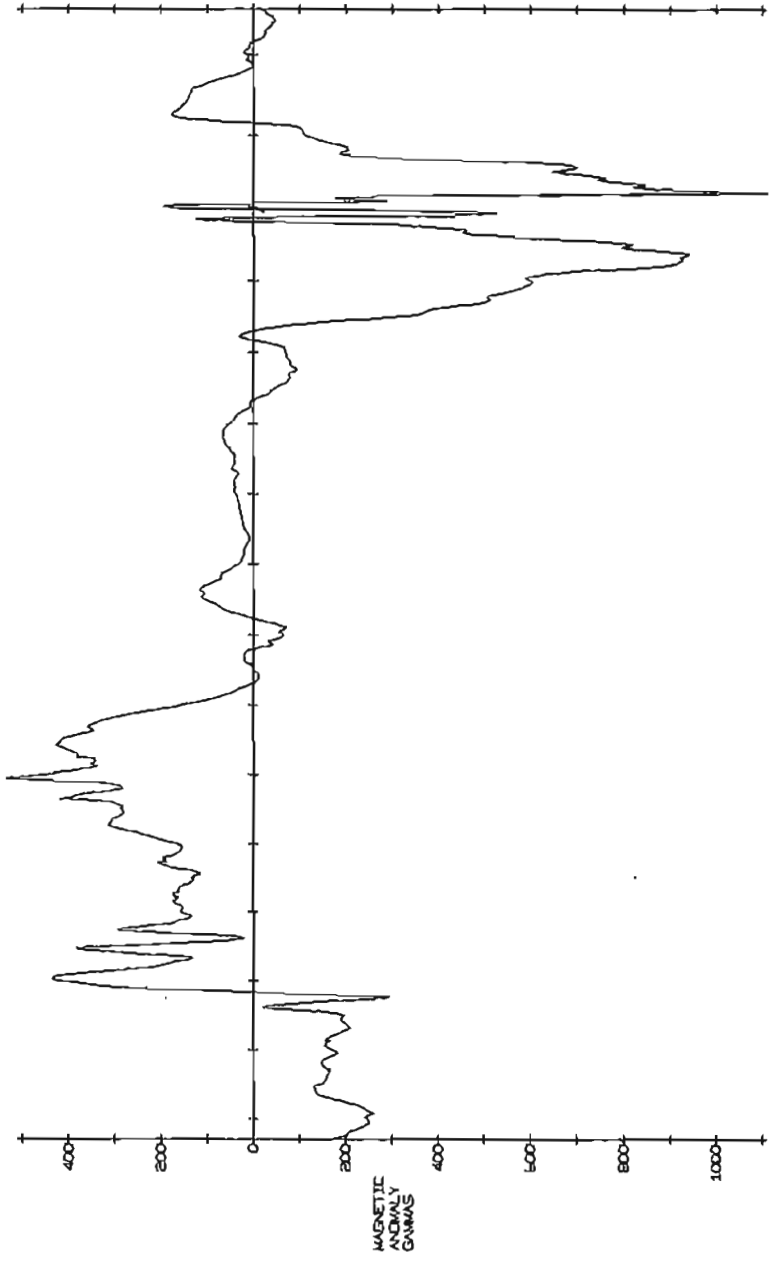


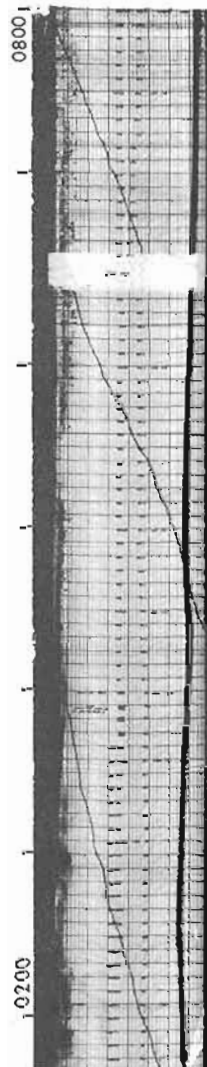
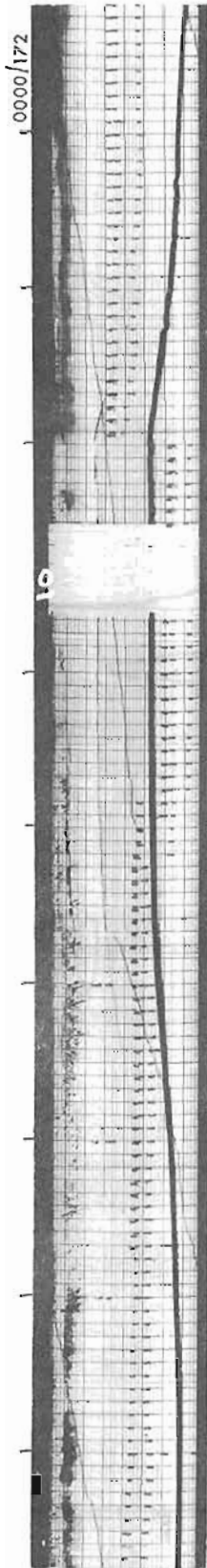
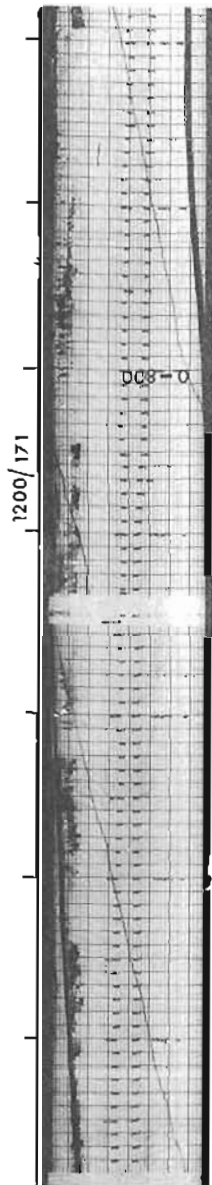
8



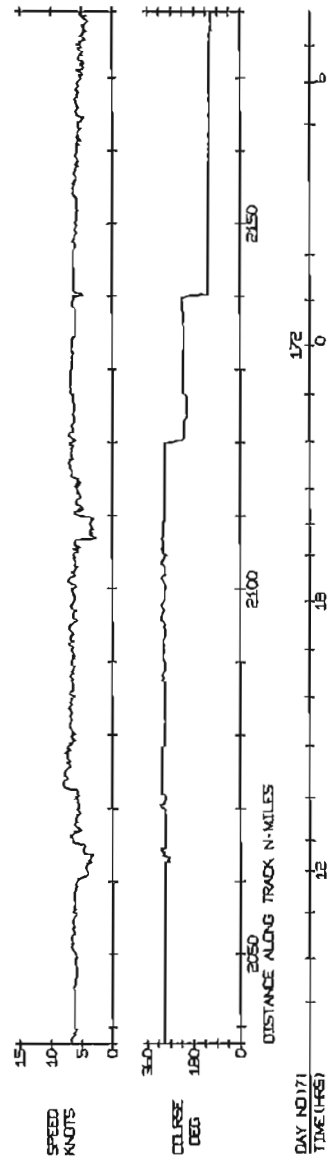
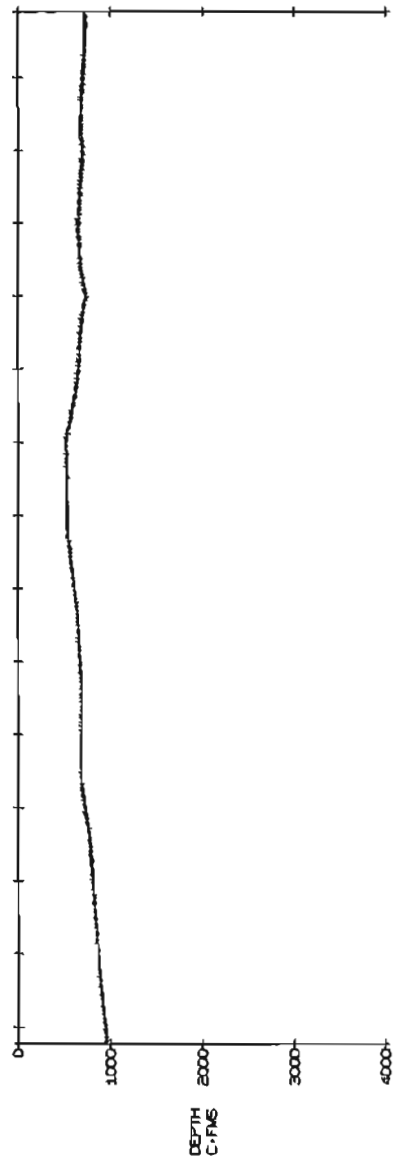
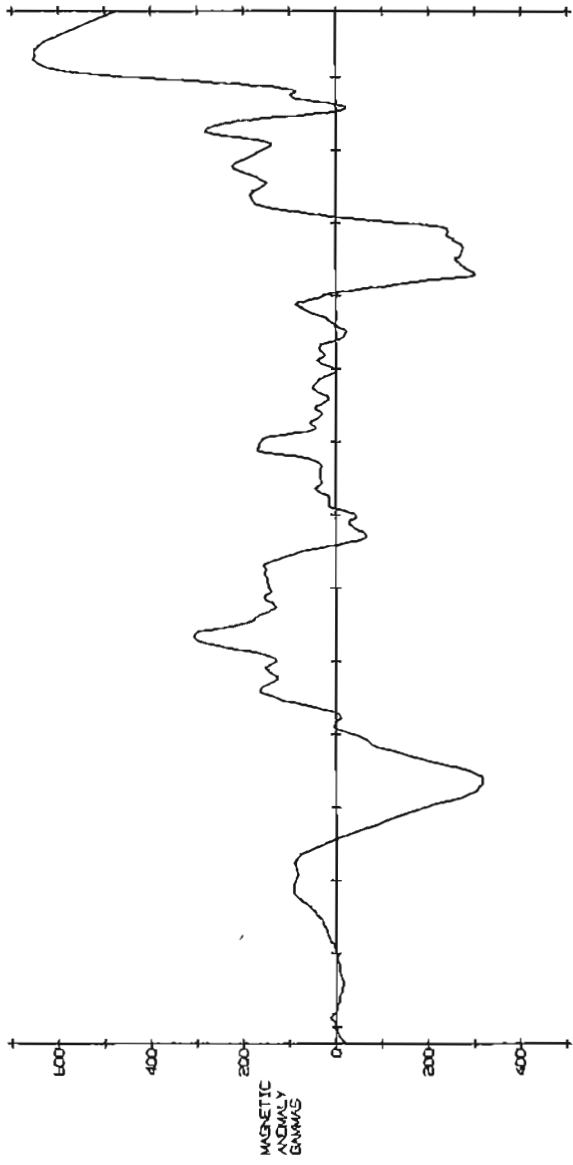


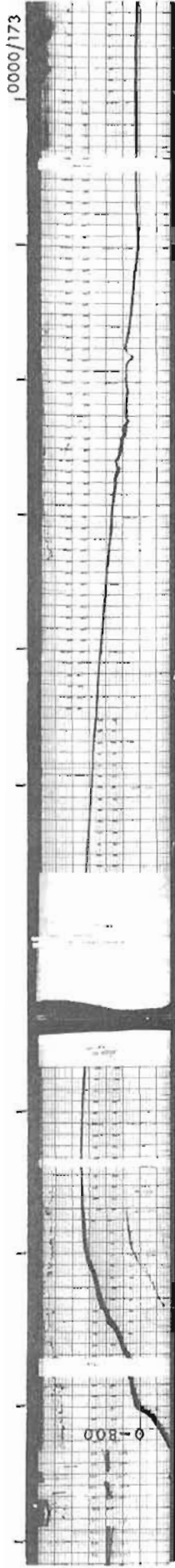
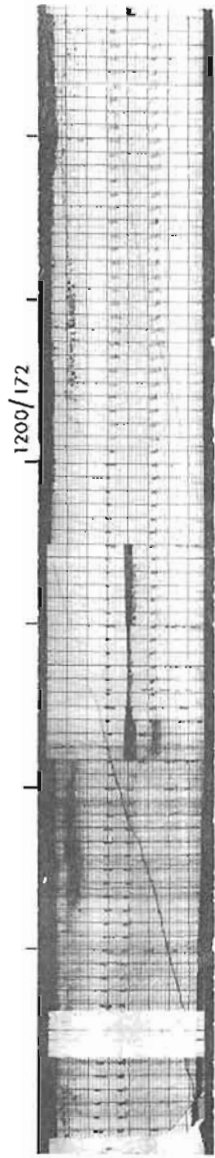
9



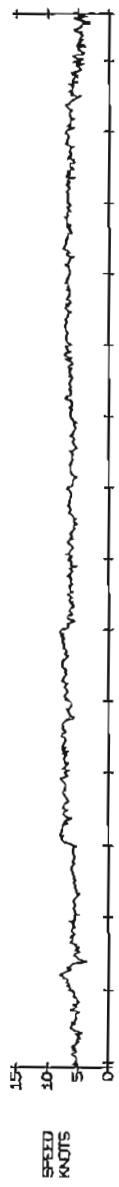
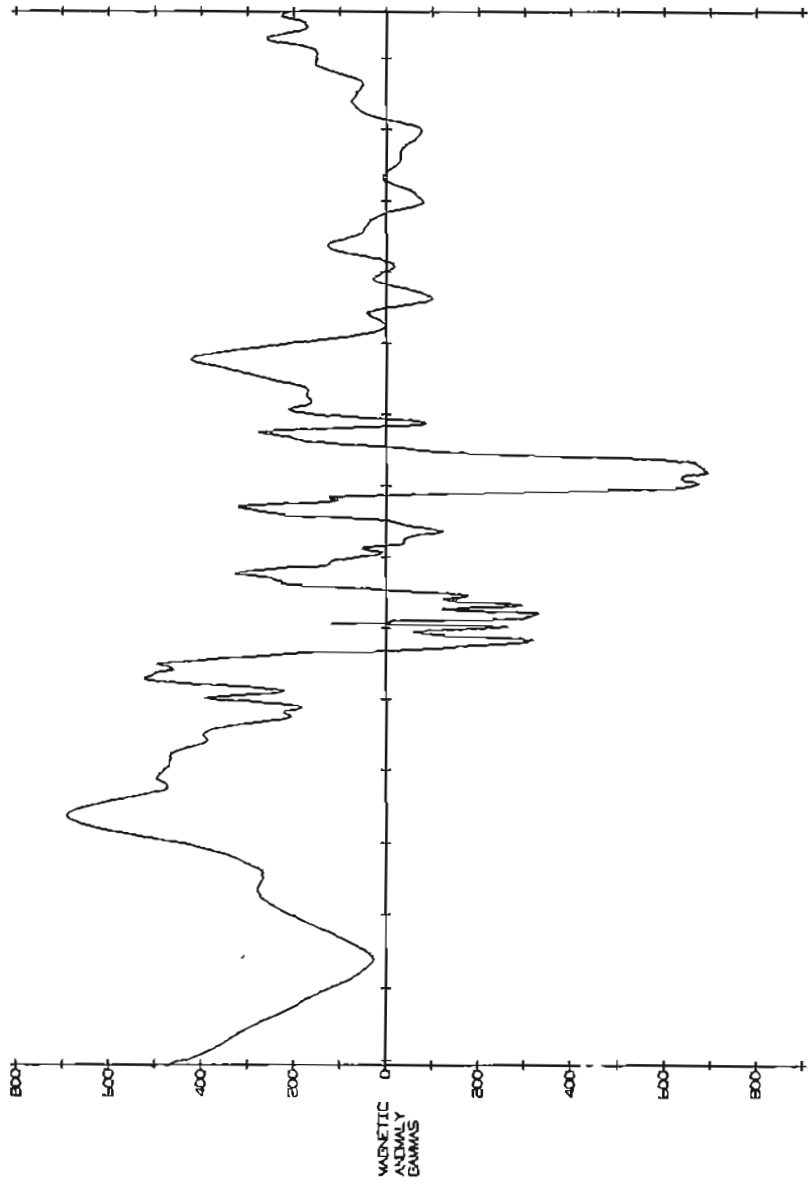


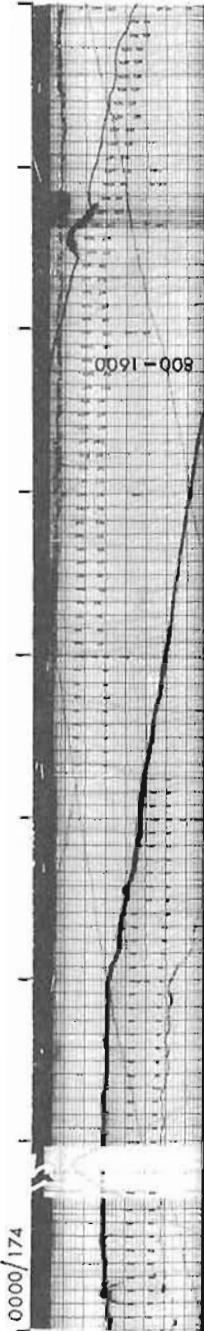
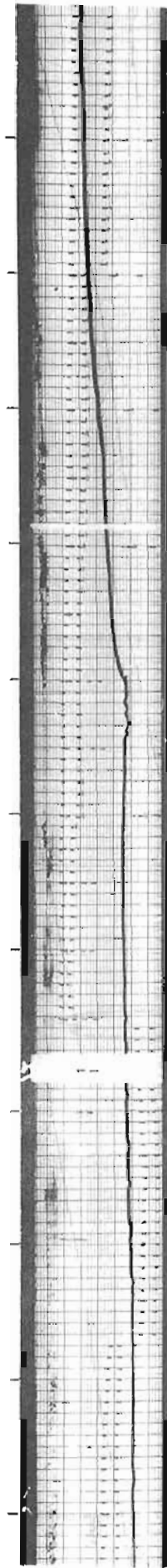
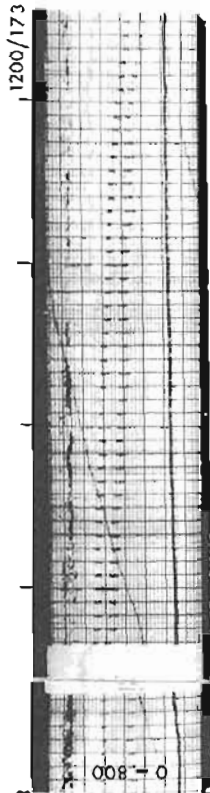
(10)



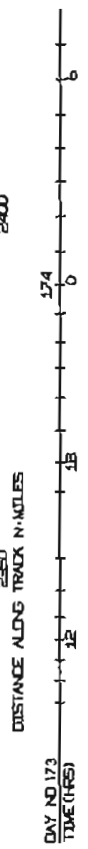
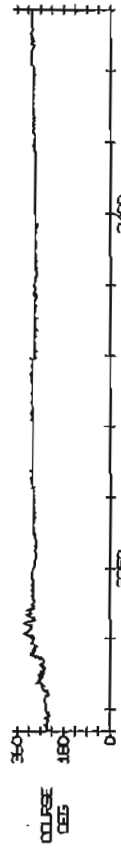
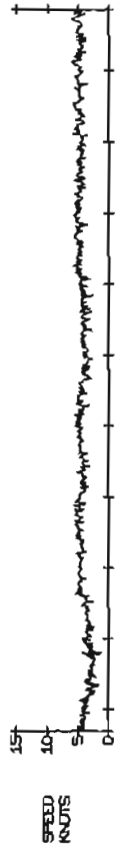
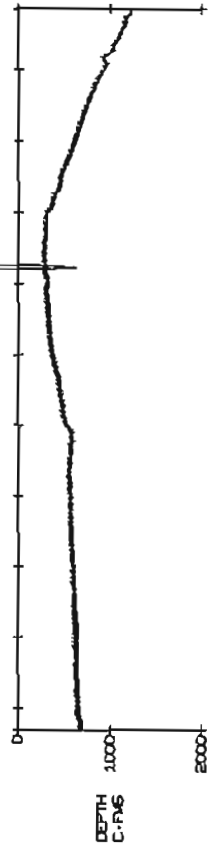
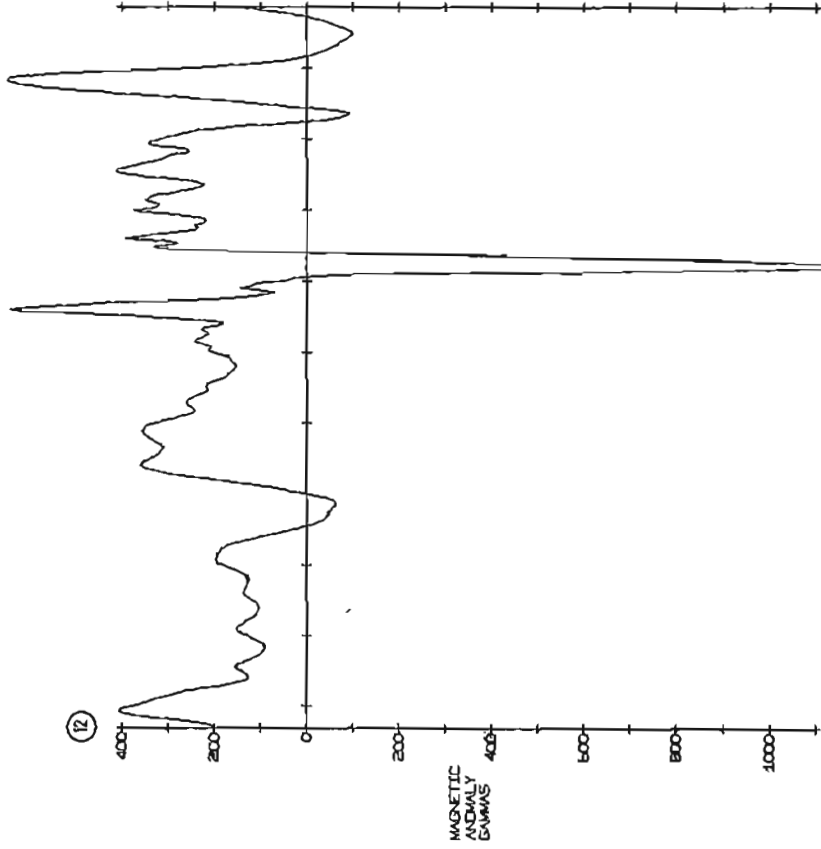


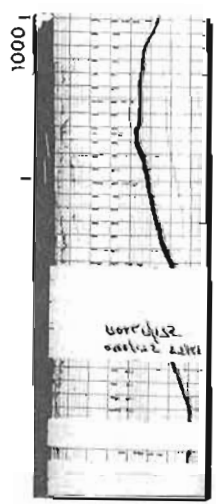
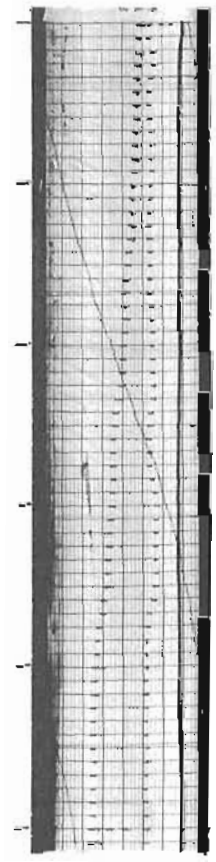
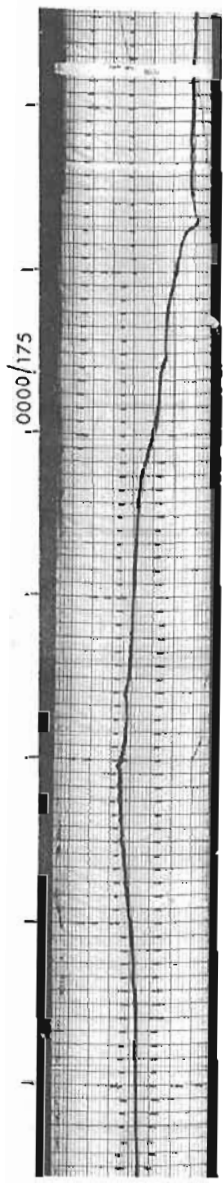
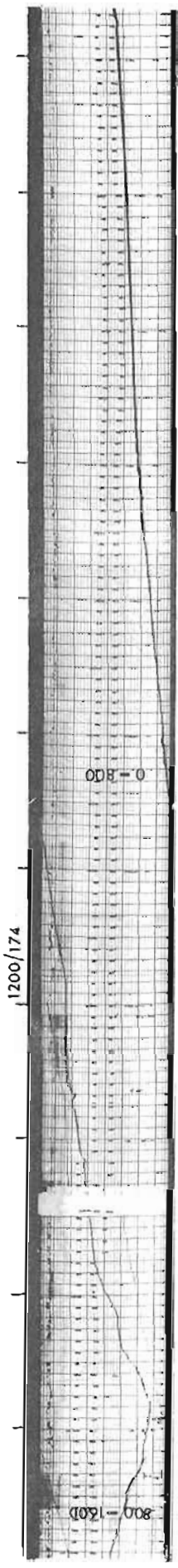
11



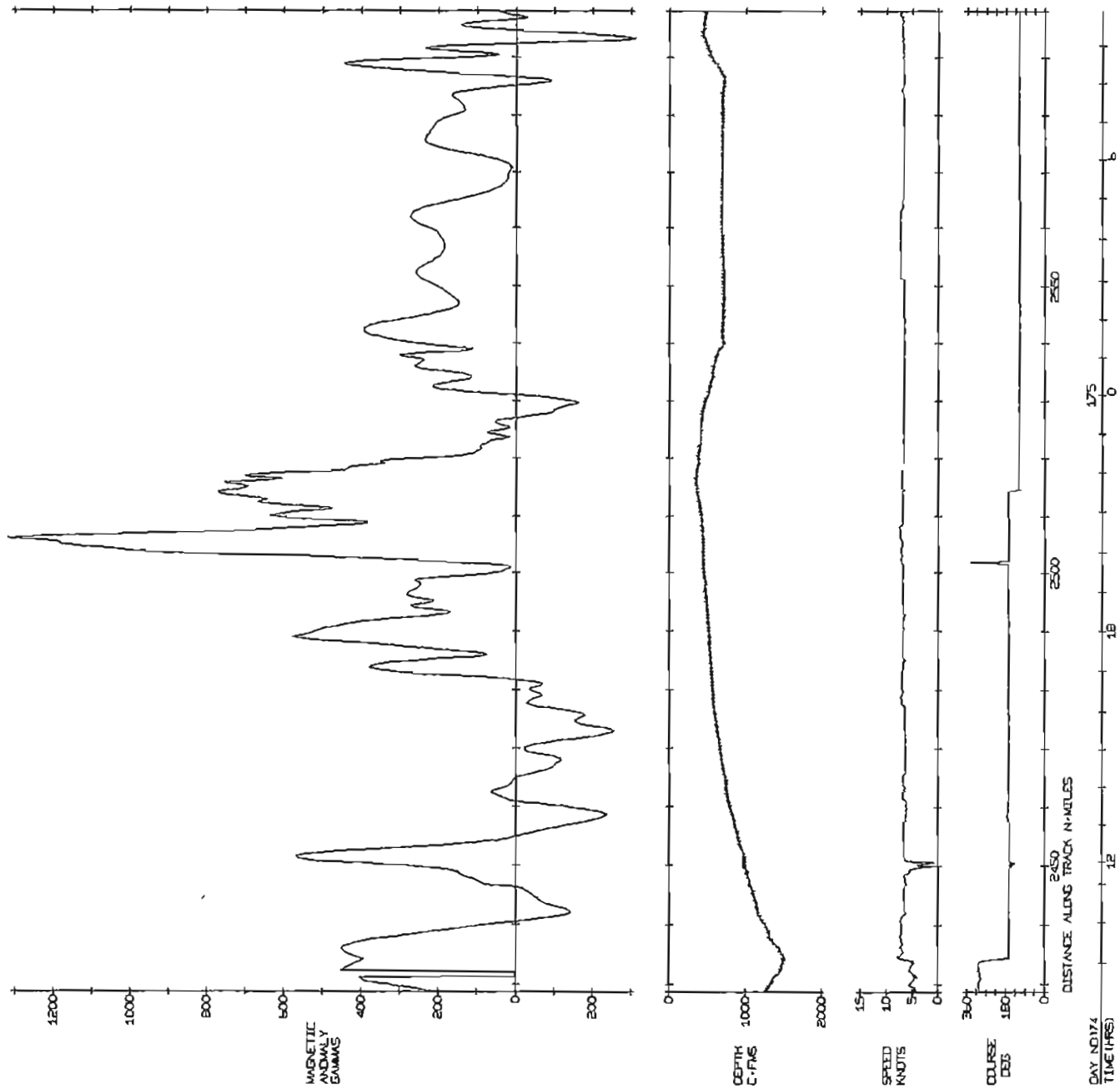


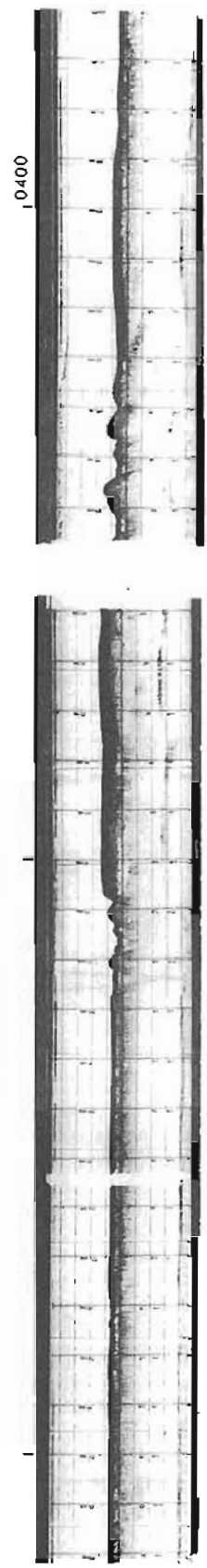
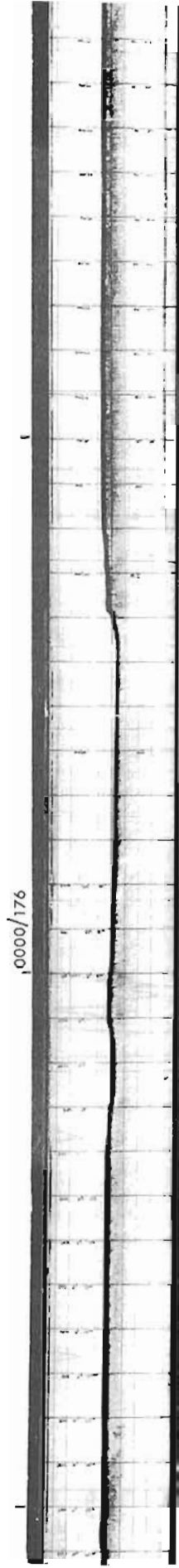
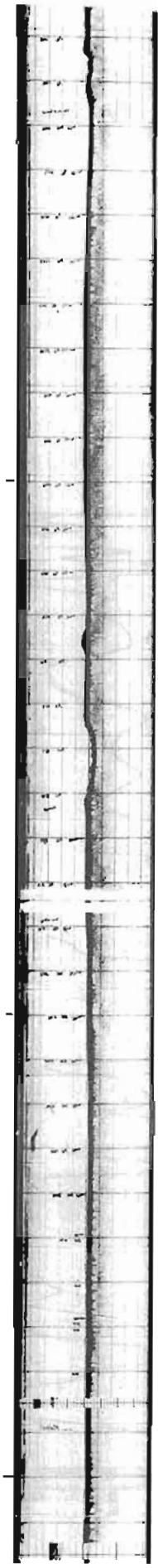
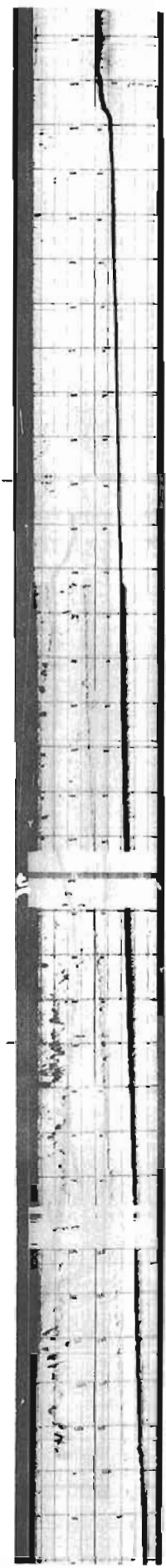
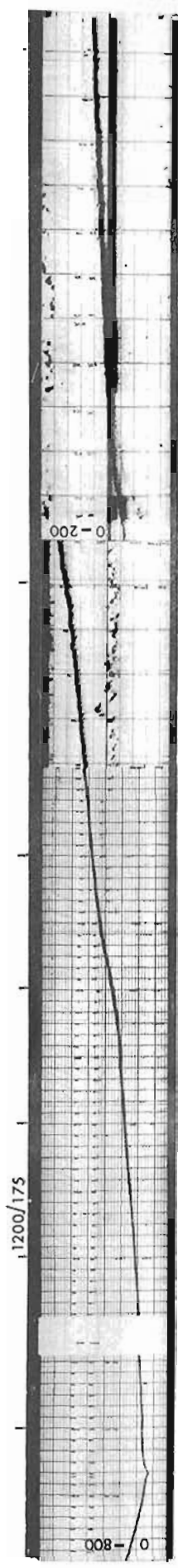
12

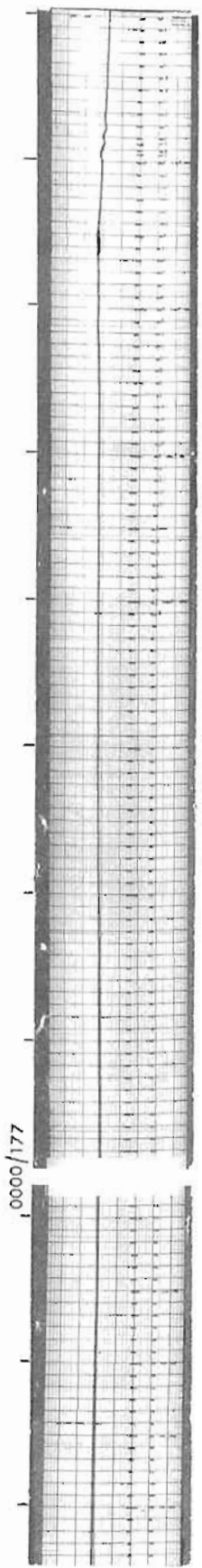
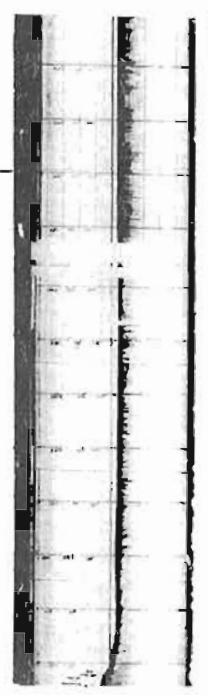
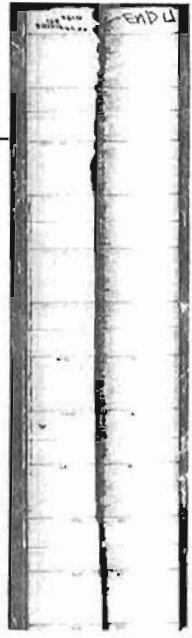
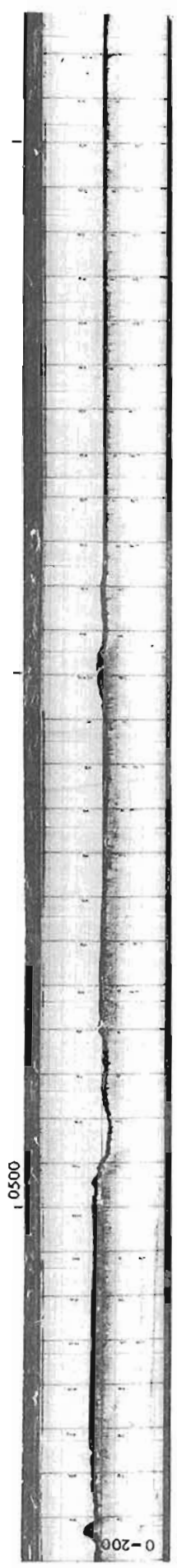




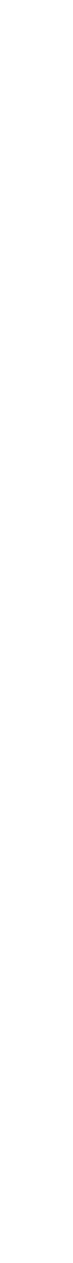
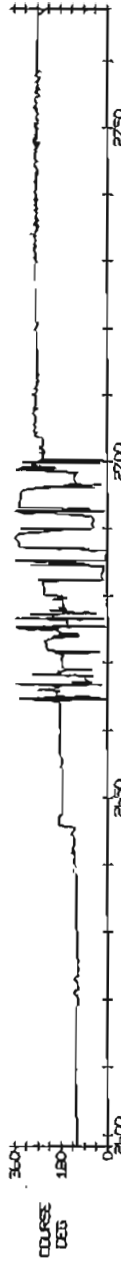
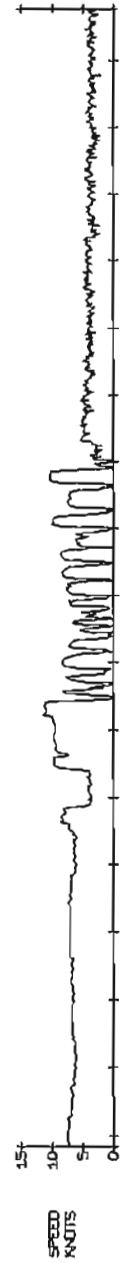
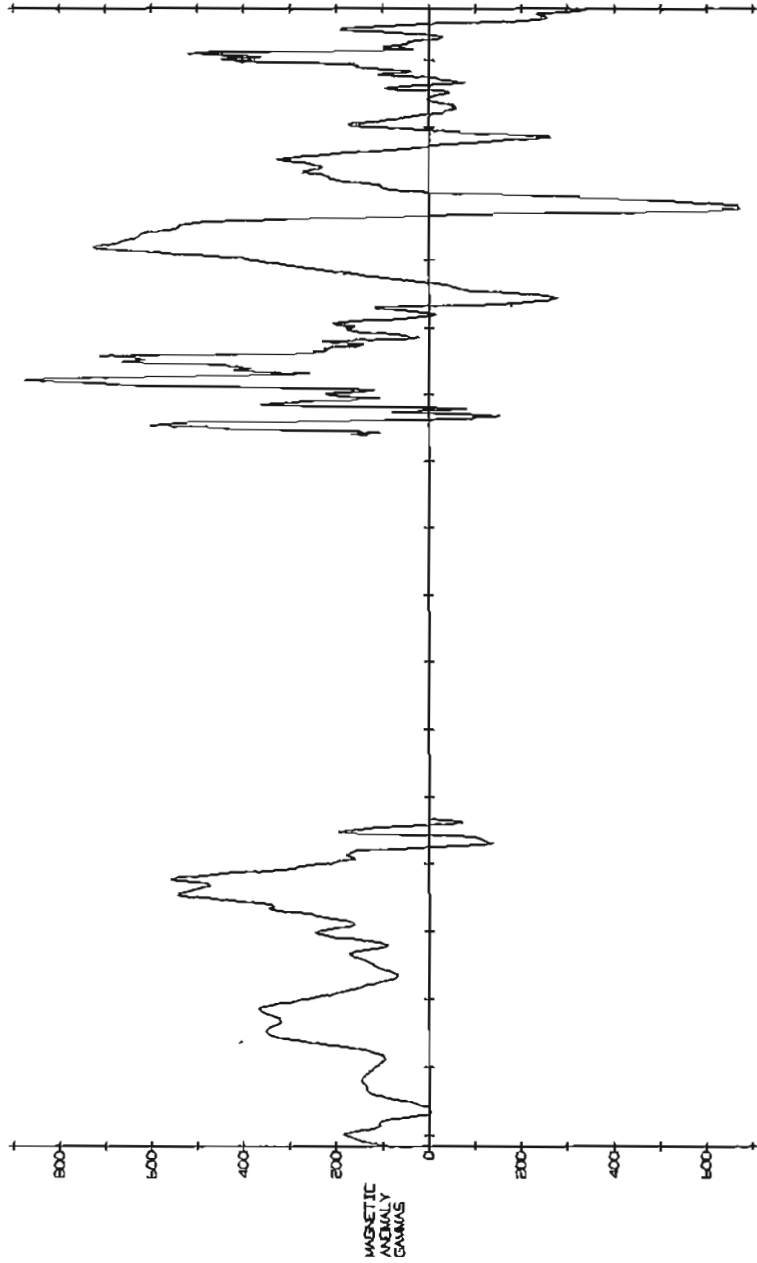
18

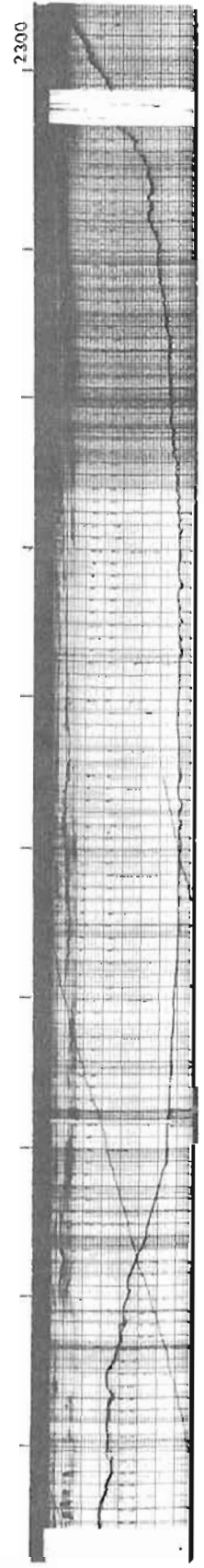
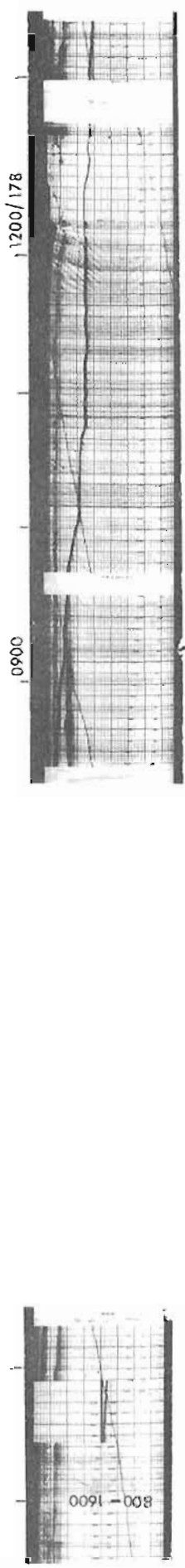
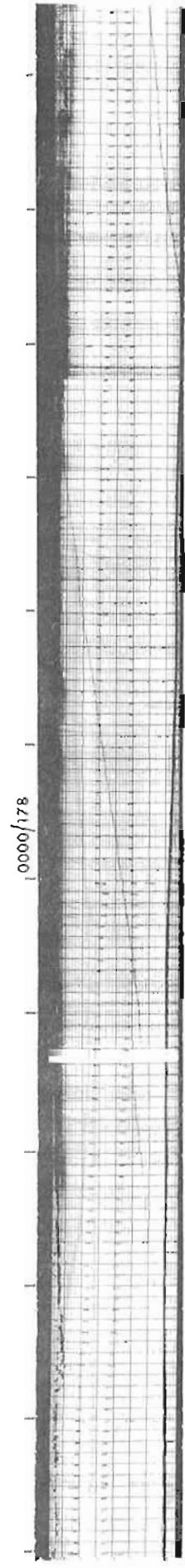
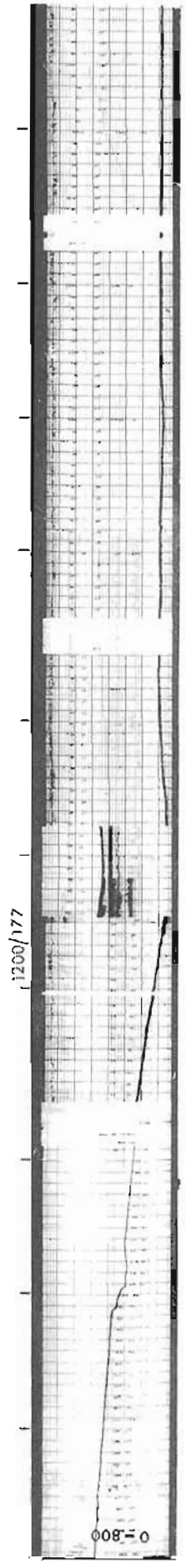




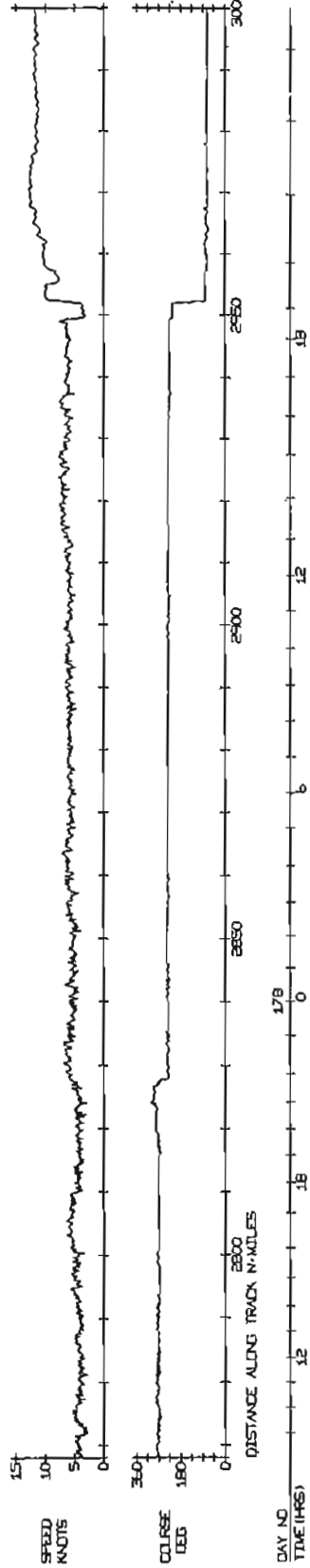
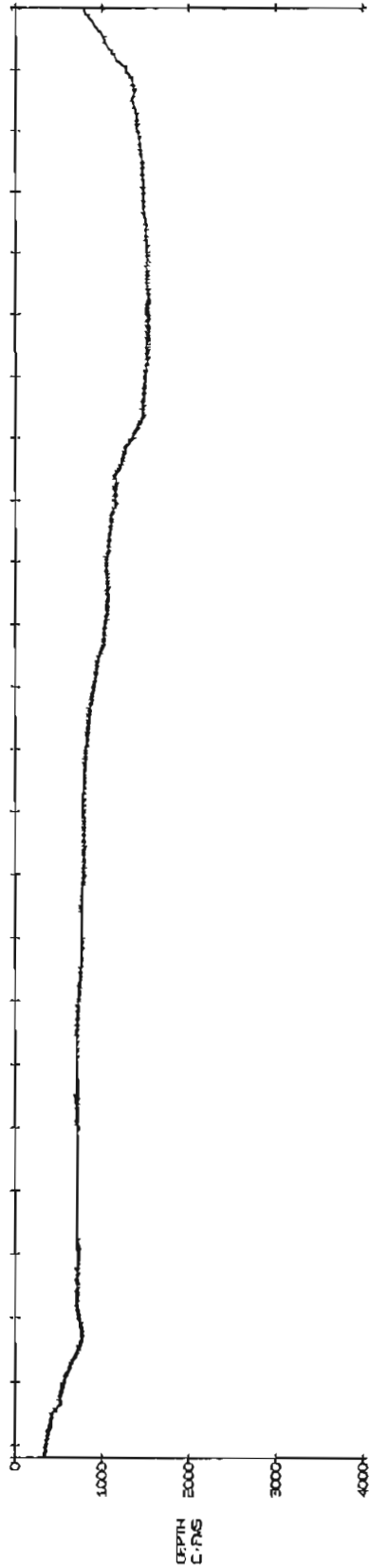
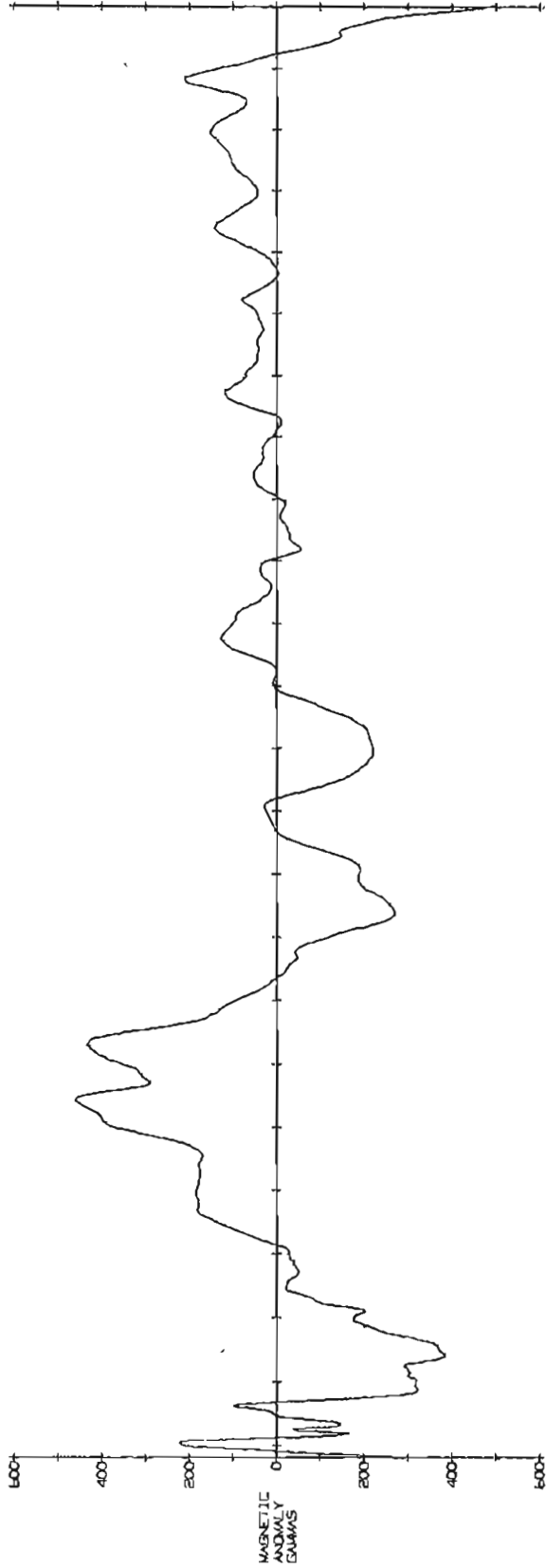


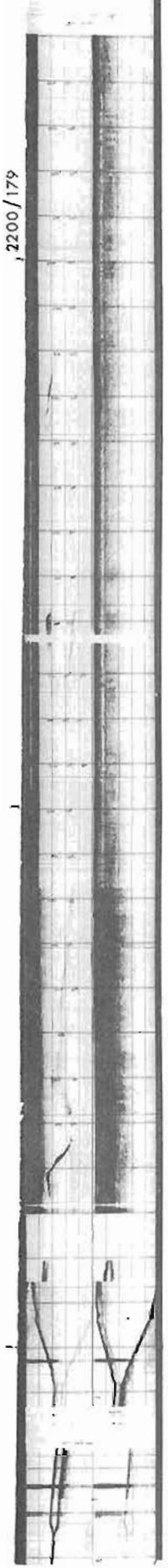
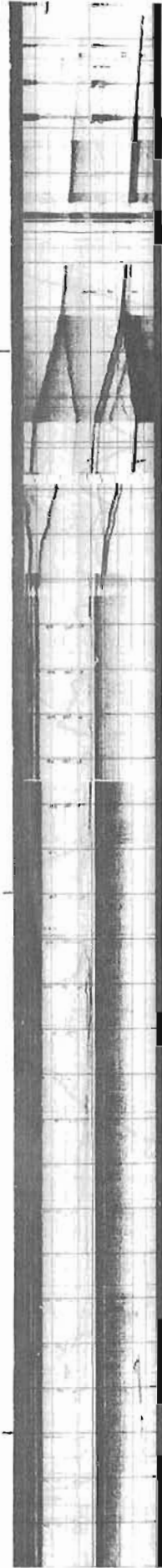
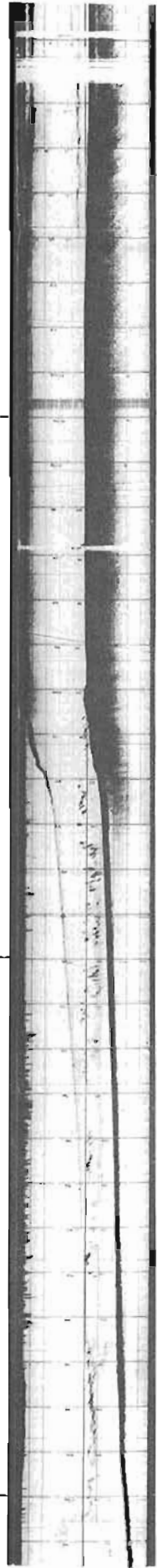
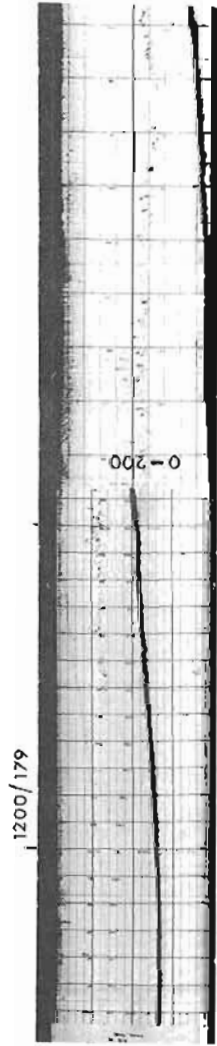
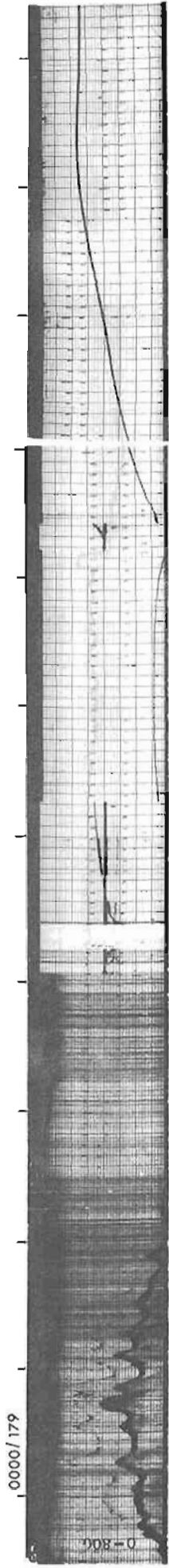
(14)

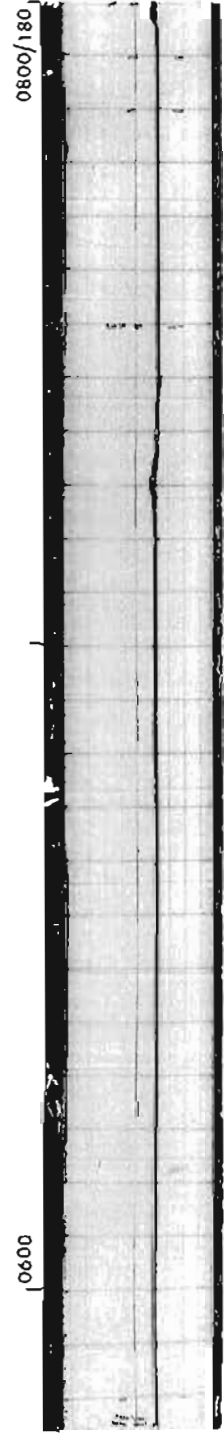
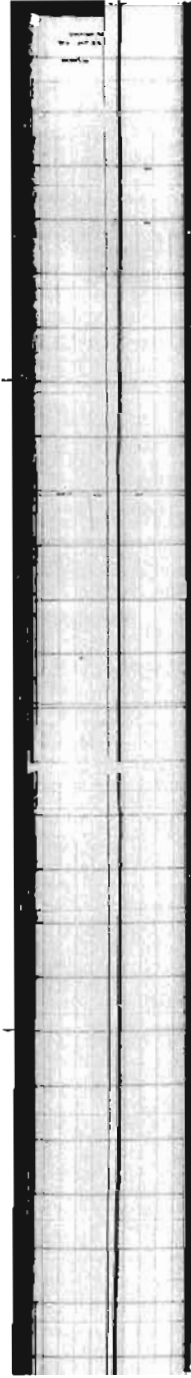
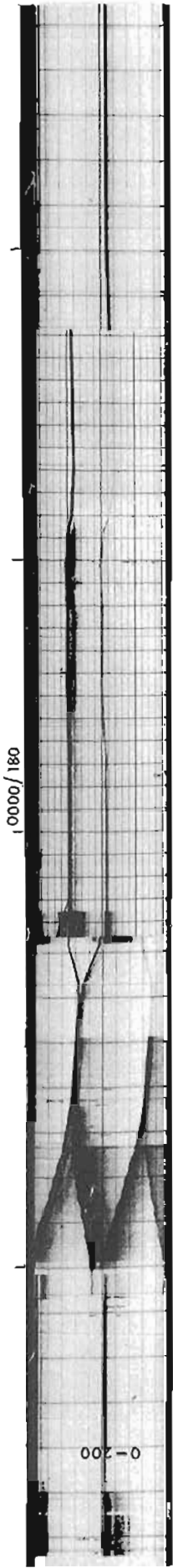




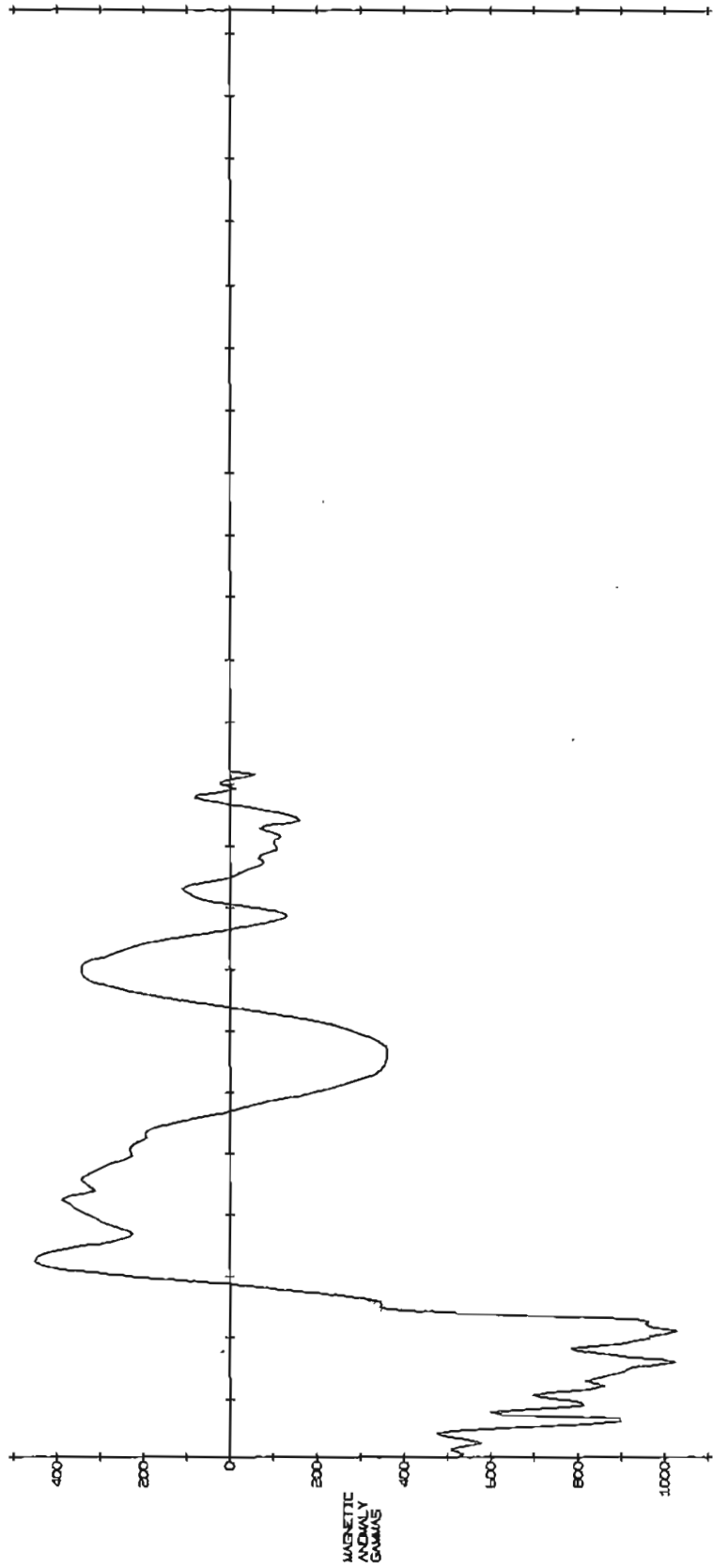
15



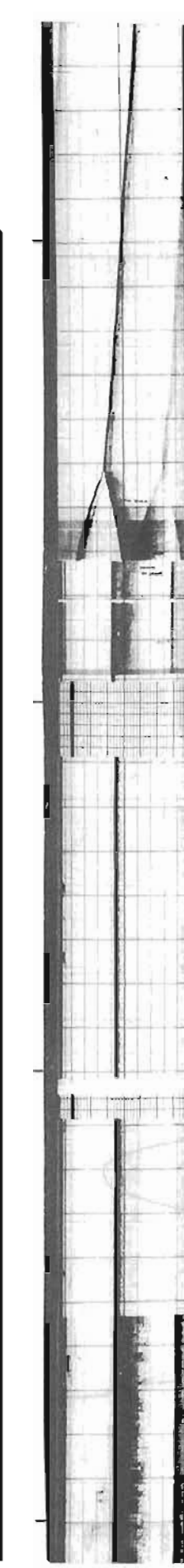
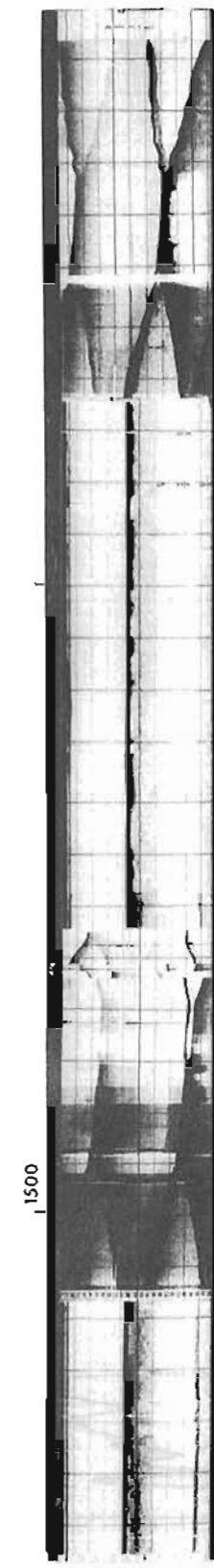
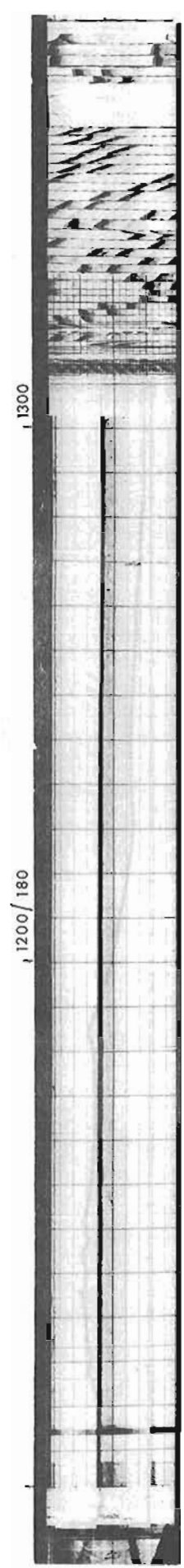
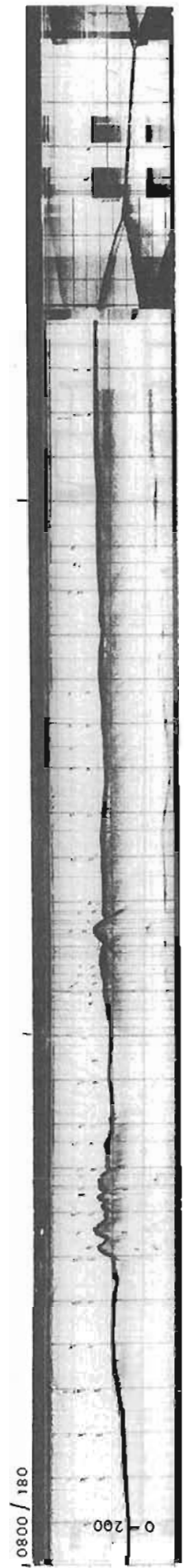


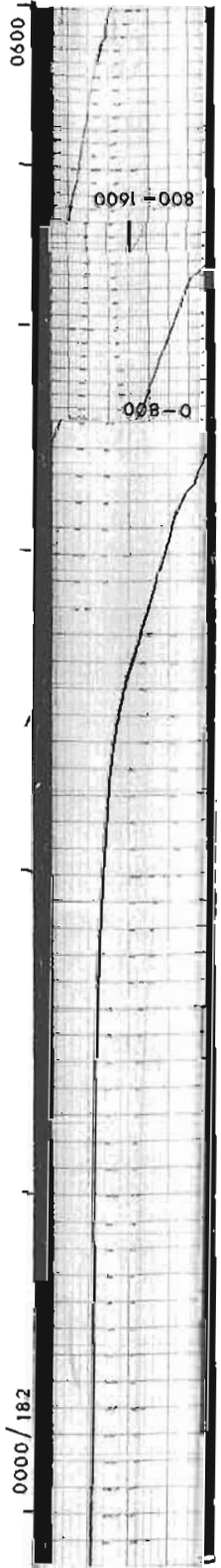
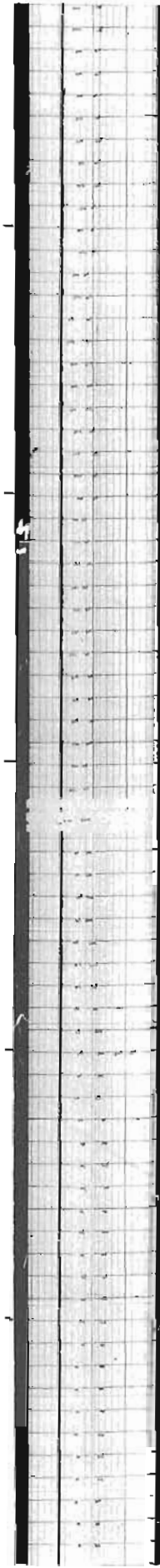
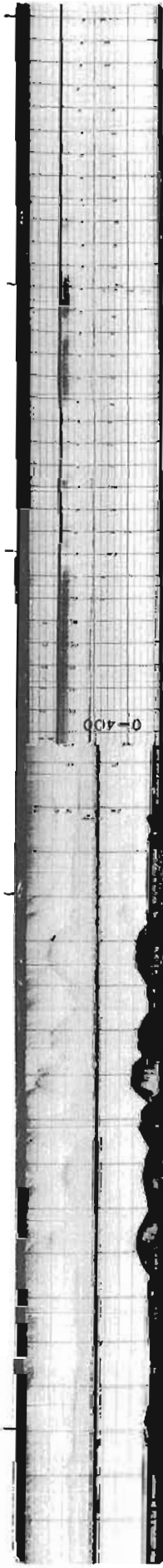
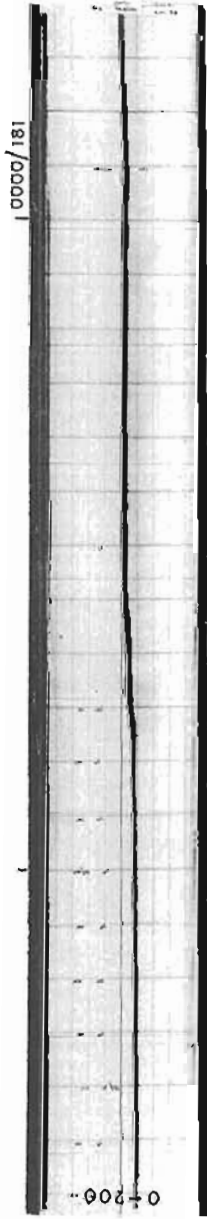


16

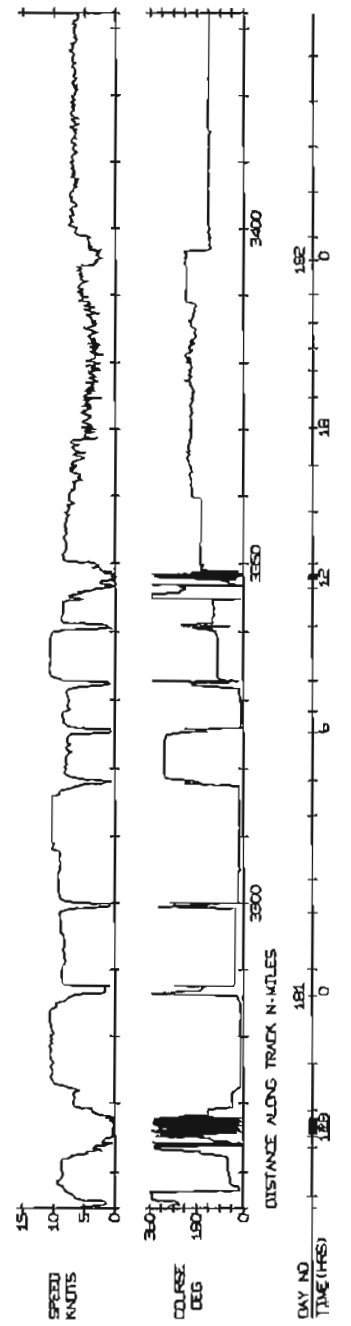
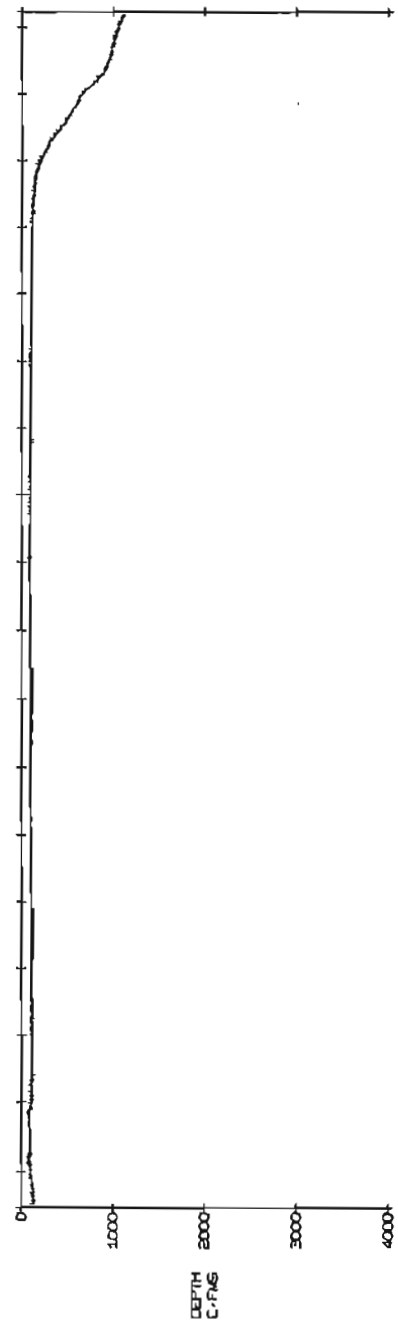
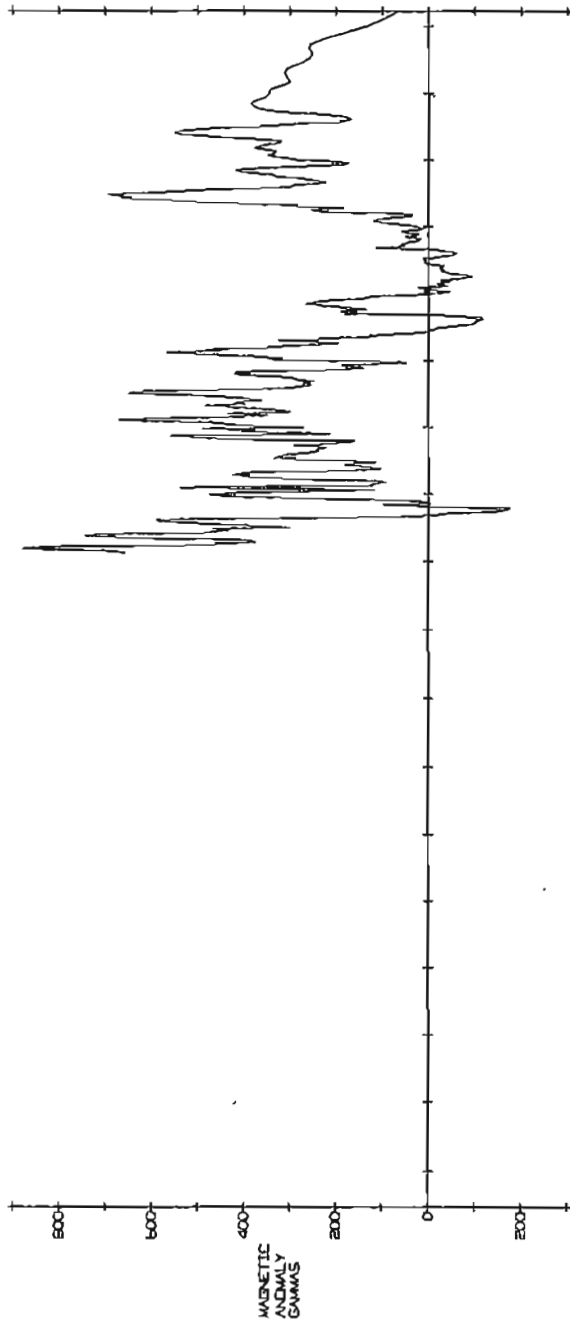


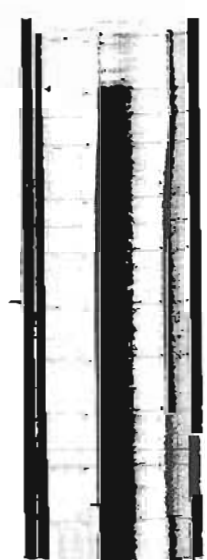
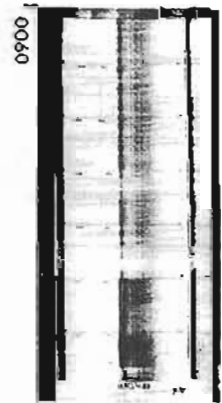
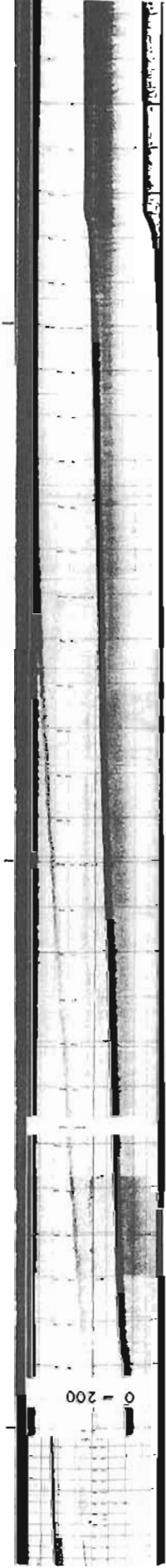
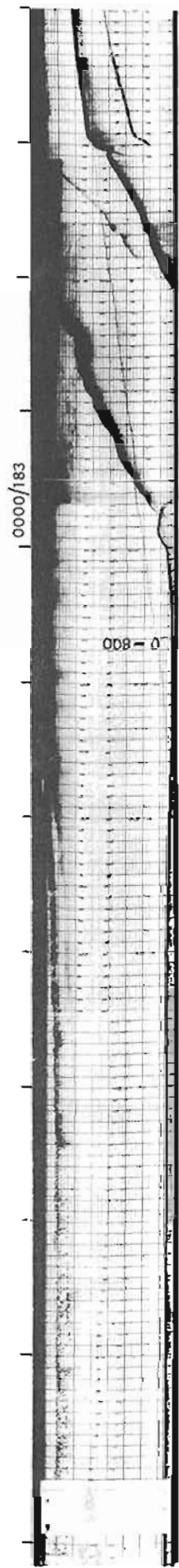
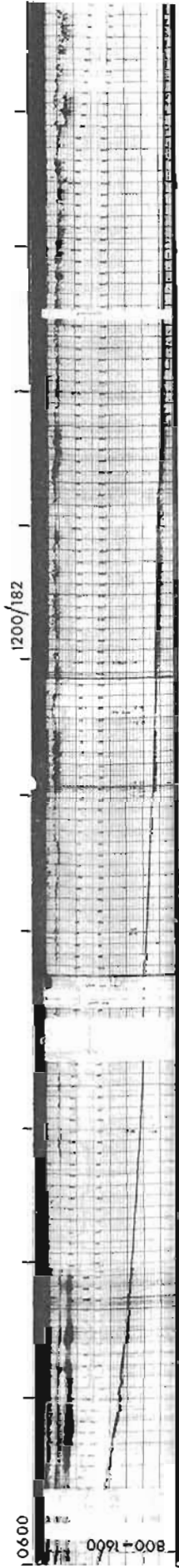
DAY NO 179
TIME (HRS) 0



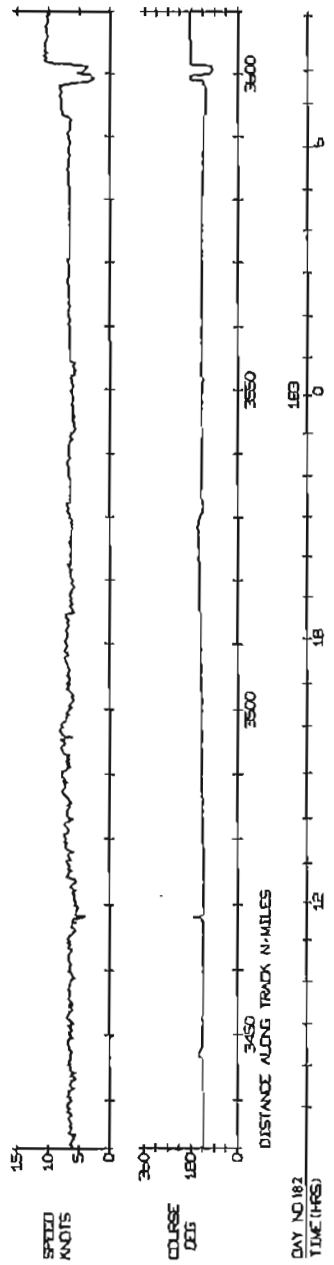
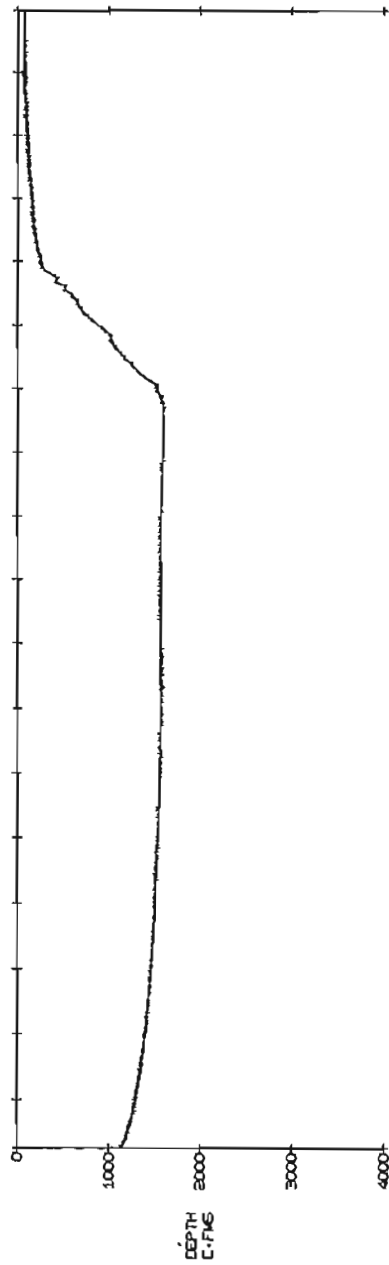
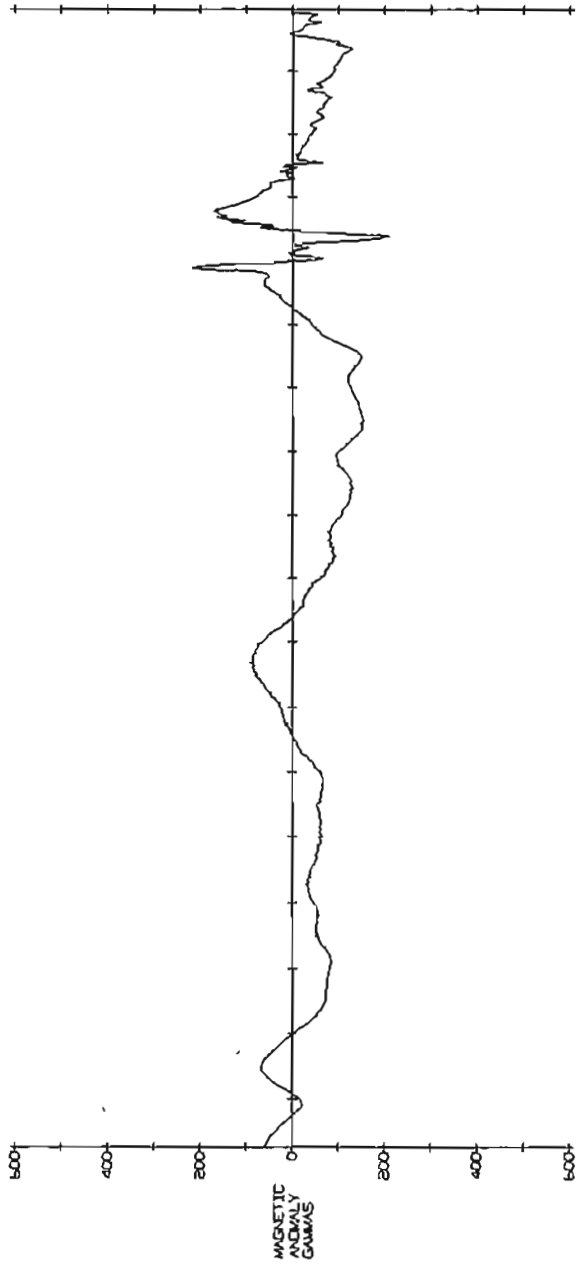


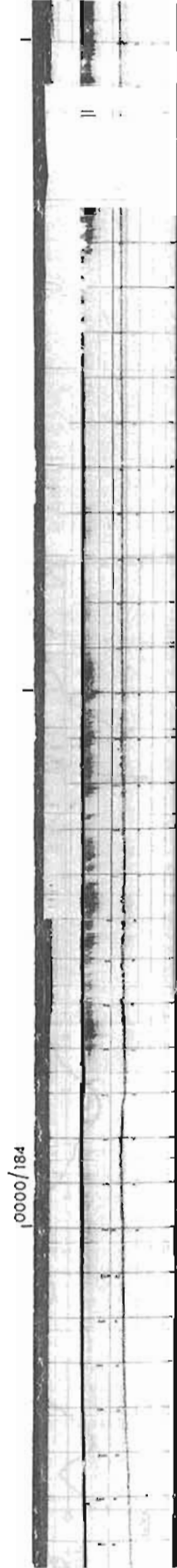
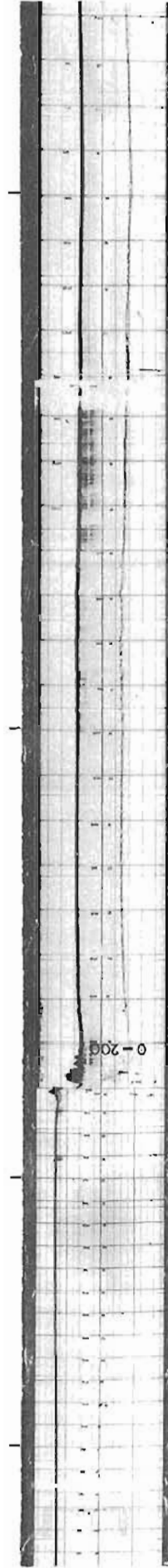
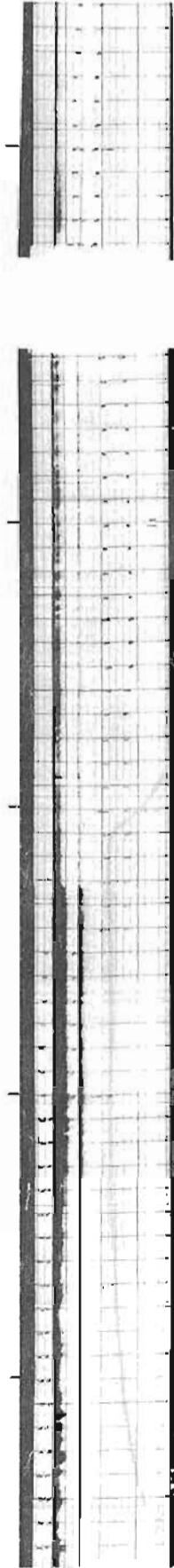
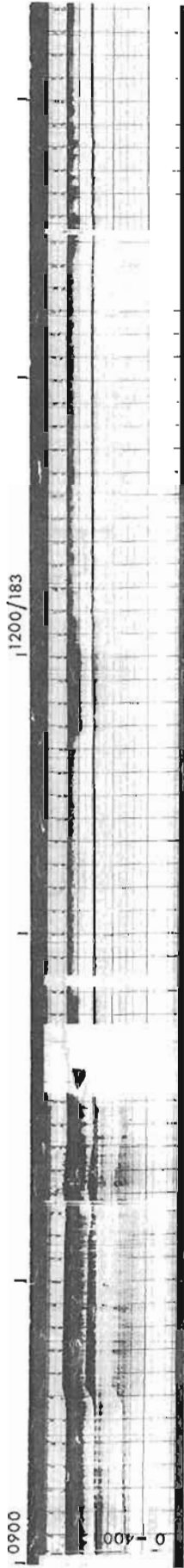
(11)





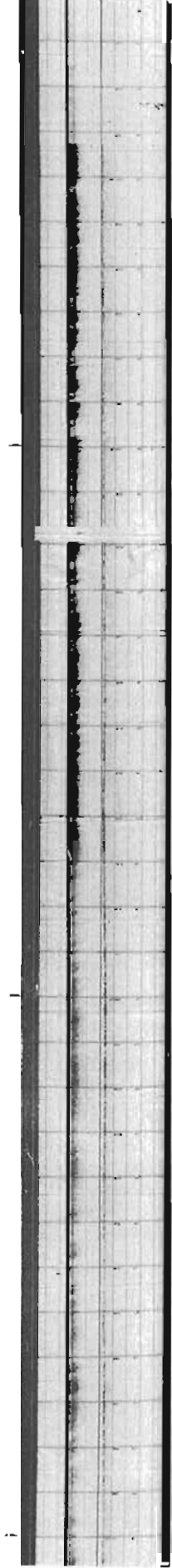
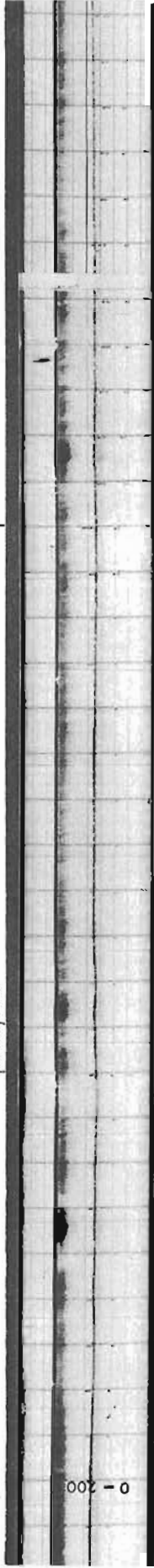
18





10300/184

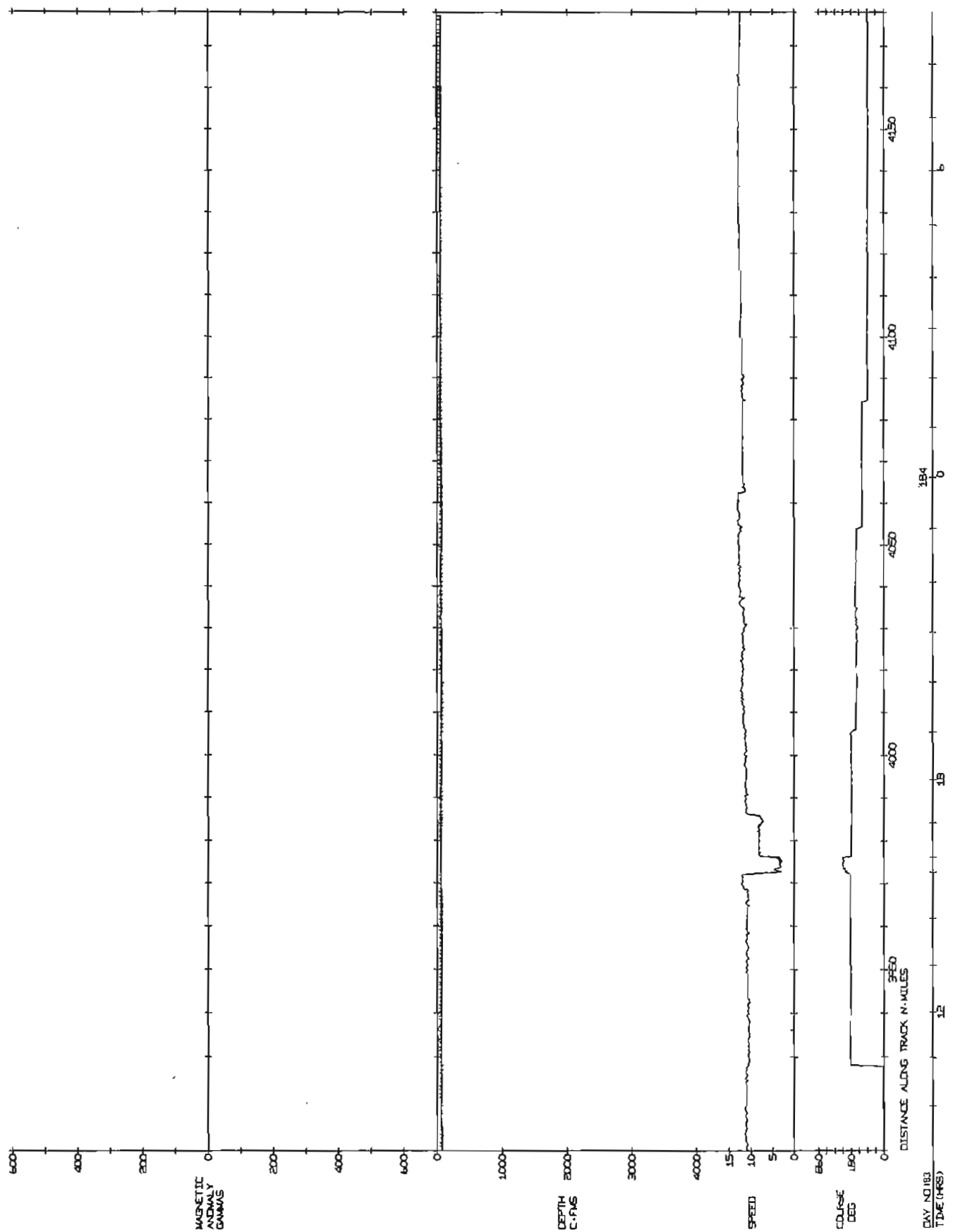
0 - 200



0900



19



DAY NO.183
TIME (HRS)

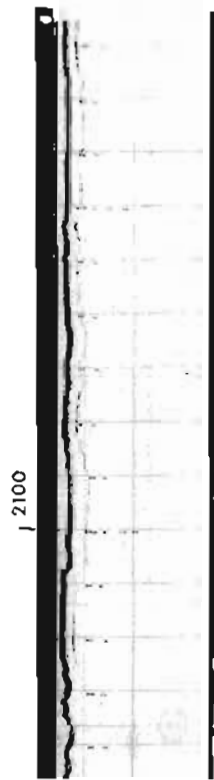
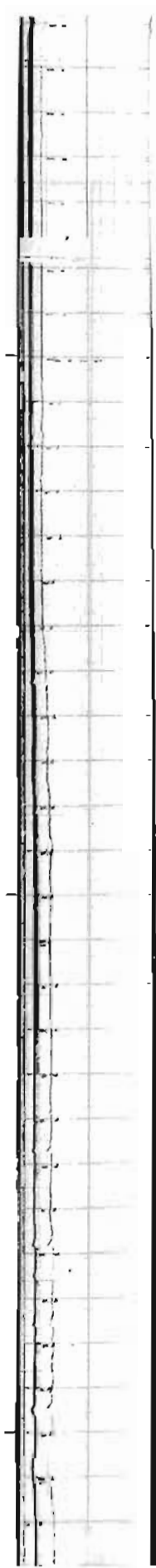
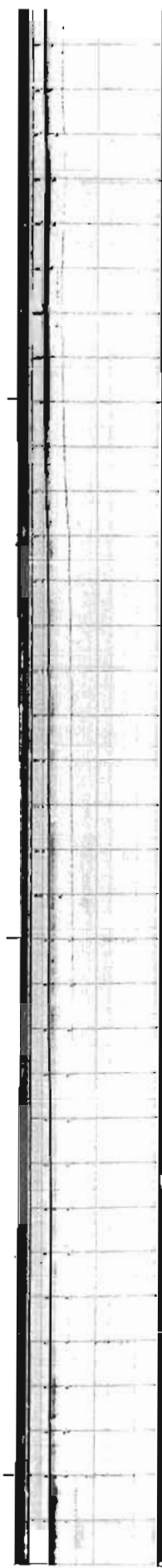
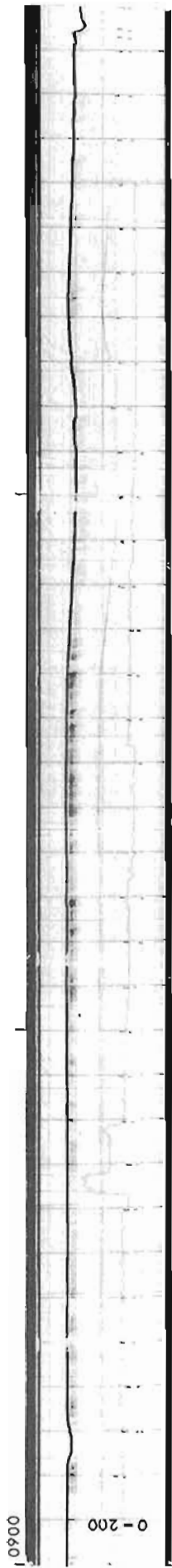
12

15

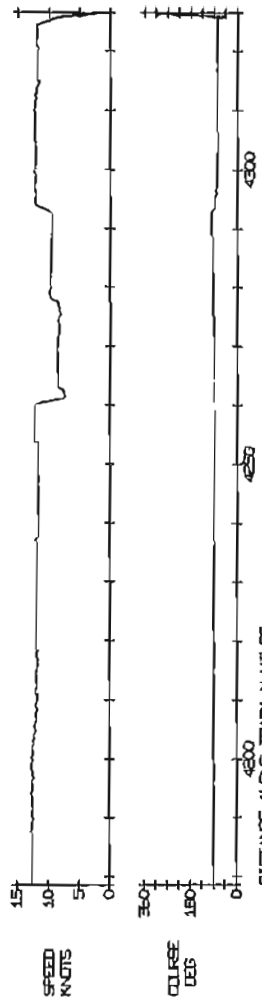
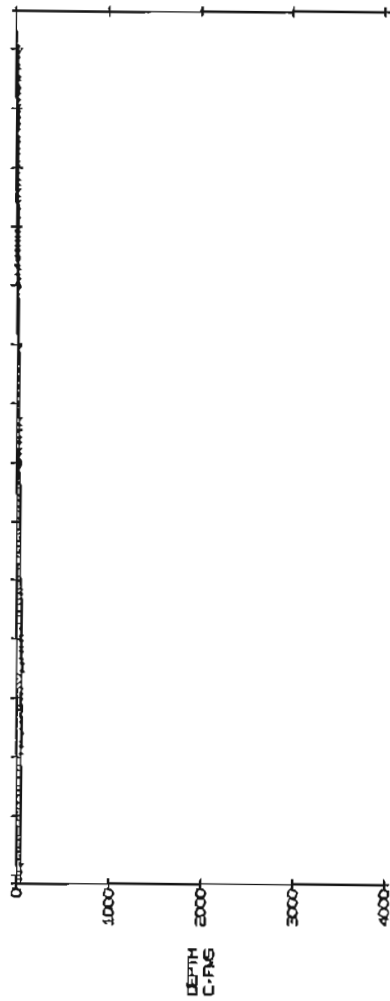
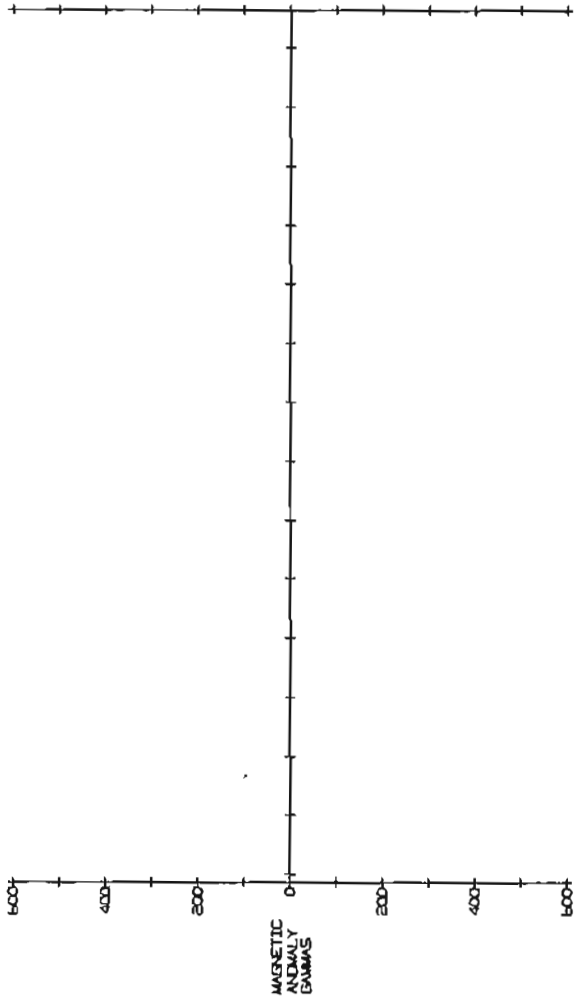
184

6

6



(20)



SECTION B

Listing of Navigation Points.

1:1,000,000 Track Charts.

B1

NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

| DAY NO | TIME H M | LATITUDE | | LONGITUDE | |
|-----------|-------------|----------|------|-----------|------|
| | | DEG | MIN | DEG | MIN |
| 161 | 22 1 | 51 | 21.5 | -3 | 36.8 |
| 161 | 2235 | 51 | 22.5 | -3 | 43.8 |
| 161 | 2249 | 51 | 23.7 | -3 | 45.9 |
| 161 | 23 7 | 51 | 24.3 | -3 | 50.2 |
| 161 | 2322 | 51 | 24.8 | -3 | 53.9 |
| 161 | 2348 | 51 | 23.5 | -4 | 0.9 |
| 162 | 054 | 51 | 19.9 | -4 | 18.1 |
| 162 | 156 | 51 | 16.5 | -4 | 30.9 |
| 162 | 224 | 51 | 15.0 | -4 | 36.3 |
| 162 | 326 | 51 | 14.5 | -4 | 50.8 |
| 162 | 410 | 51 | 13.6 | -5 | 3.6 |
| 162 | 644 | 51 | 11.7 | -5 | 43.1 |
| 162 | 710 | 51 | 11.3 | -5 | 50.5 |
| 162 | 843 | 51 | 9.3 | -6 | 16.8 |
| 162 | 857 | 51 | 9.2 | -6 | 18.8 |
| 162 | 1047 | 51 | 7.2 | -6 | 49.6 |
| 162 | 1245 | 51 | 5.4 | -7 | 21.7 |
| 162 | 1326 | 51 | 5.4 | -7 | 34.2 |
| 162 | 1435 | 51 | 4.7 | -7 | 55.4 |
| 162 | 15 5 | 51 | 4.3 | -8 | 4.2 |
| 162 | 1517 | 51 | 4.2 | -8 | 5.4 |
| 162 | 1531 | 51 | 4.1 | -8 | 8.2 |
| 162 | 1610 | 51 | 4.1 | -8 | 14.0 |
| 162 | 1720 | 51 | 3.9 | -8 | 34.4 |
| 162 | 2015 | 51 | 1.4 | -9 | 21.6 |
| 162 | 2127 | 51 | 0.5 | -9 | 41.6 |
| 162 | 2232 | 50 | 59.9 | -9 | 59.8 |
| 163 | 0 0 | 51 | 0.3 | -10 | 9.3 |
| 163 | 053 | 51 | 1.4 | -10 | 18.8 |
| 163 | 345 | 51 | 5.6 | -10 | 52.7 |
| 163 | 517 | 51 | 7.6 | -11 | 11.5 |
| 163 | 845 | 51 | 12.1 | -11 | 55.4 |
| 163 | 947 | 51 | 13.6 | -12 | 6.6 |
| 163 | 10 1 | 51 | 13.7 | -12 | 7.9 |
| 163 | 11 5 | 51 | 15.1 | -12 | 19.5 |
| 163 | 12 3 | 51 | 16.3 | -12 | 30.2 |
| 163 | 1412 | 51 | 19.3 | -12 | 52.5 |
| 163 | 1618 | 51 | 22.1 | -13 | 15.1 |
| 163 | 1742 | 51 | 23.5 | -13 | 30.9 |
| 163 | 19 6 | 51 | 25.0 | -13 | 46.6 |
| 163 | 2258 | 51 | 30.1 | -14 | 32.3 |
| 164 | 031 | 51 | 39.2 | -14 | 42.6 |
| 164 | 125 | 51 | 44.5 | -14 | 49.0 |
| 164 | 215 | 51 | 50.1 | -14 | 55.6 |
| 164 | 3 5 | 51 | 55.4 | -15 | 1.7 |
| 164 | 551 | 52 | 15.3 | -15 | 22.8 |
| 164 | 611 | 52 | 17.4 | -15 | 25.5 |
| 164 | 711 | 52 | 13.9 | -15 | 37.5 |
| 164 | 927 | 52 | 6.1 | -16 | 1.9 |
| 164 | 1110 | 51 | 59.8 | -16 | 16.7 |
| 164 | 1358 | 51 | 48.1 | -16 | 42.4 |
| 164 | 1722 | 51 | 34.6 | -17 | 14.1 |
| 164 | 1926 | 51 | 26.8 | -17 | 34.2 |
| 164 | 1946 | 51 | 28.4 | -17 | 33.1 |
| 164 | 2040 | 51 | 32.9 | -17 | 28.9 |
| 164 | 2217 | 51 | 41.8 | -17 | 20.8 |
| 165 | 245 | 52 | 8.1 | -16 | 57.3 |
| 165 | 437 | 52 | 19.2 | -16 | 47.4 |
| 165 | 641 | 52 | 31.1 | -16 | 35.2 |
| 165 | 858 | 52 | 43.7 | -16 | 22.0 |
| 165 | 1214 | 53 | 2.9 | -16 | 5.6 |
| 165 | 1320 | 53 | 10.0 | -16 | 0.6 |
| 165 | 1644 | 53 | 32.1 | -15 | 47.1 |
| 165 | 1737 | 53 | 37.5 | -15 | 44.2 |
| 165 | 2037 | 53 | 58.1 | -15 | 58.2 |
| 165 | 2129 | 54 | 3.4 | -16 | 1.6 |
| 165 | 2245 | 54 | 10.9 | -16 | 7.3 |
| 166 | 054 | 54 | 23.1 | -16 | 18.2 |
| 166 | 145 | 54 | 28.0 | -16 | 22.2 |
| 166 | 233 | 54 | 32.8 | -16 | 26.8 |
| 166 | 340 | 54 | 39.9 | -16 | 31.7 |
| 166 | 431 | 54 | 45.8 | -16 | 35.6 |
| 166 | 449 | 54 | 44.2 | -16 | 38.0 |
| 166 | 649 | 54 | 31.1 | -16 | 51.4 |
| 166 | 759 | 54 | 23.6 | -16 | 59.3 |

NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

| DAY | TIME | LATITUDE | | LONGITUDE | |
|-----|------|----------|------|-----------|------|
| | | DEG | MIN | DEG | MIN |
| 166 | 8 9 | 54 | 23.8 | -16 | 59.5 |
| 166 | 953 | 54 | 13.9 | -17 | 11.2 |
| 166 | 1113 | 54 | 6.3 | -17 | 20.1 |
| 166 | 1313 | 53 | 54.3 | -17 | 32.4 |
| 166 | 1449 | 53 | 44.1 | -17 | 41.0 |
| 166 | 1628 | 53 | 32.5 | -17 | 46.7 |
| 166 | 1638 | 53 | 32.3 | -17 | 47.5 |
| 166 | 1836 | 53 | 46.4 | -17 | 50.7 |
| 166 | 2223 | 54 | 15.0 | -17 | 59.3 |
| 167 | 049 | 54 | 32.6 | -18 | 6.5 |
| 167 | 248 | 54 | 19.8 | -18 | 17.8 |
| 167 | 654 | 53 | 53.4 | -18 | 41.3 |
| 167 | 918 | 54 | 4.0 | -19 | 4.3 |
| 167 | 1027 | 54 | 9.3 | -19 | 16.2 |
| 167 | 1140 | 54 | 16.4 | -19 | 8.3 |
| 167 | 1234 | 54 | 21.3 | -19 | 2.3 |
| 167 | 1540 | 54 | 38.7 | -18 | 38.6 |
| 167 | 1713 | 54 | 48.3 | -18 | 29.1 |
| 167 | 1741 | 54 | 49.8 | -18 | 27.7 |
| 167 | 18 3 | 54 | 51.7 | -18 | 23.0 |
| 167 | 1831 | 54 | 54.9 | -18 | 14.5 |
| 167 | 2052 | 55 | 12.1 | -17 | 31.5 |
| 167 | 2239 | 55 | 25.0 | -16 | 57.8 |
| 167 | 2337 | 55 | 31.8 | -16 | 38.5 |
| 168 | 010 | 55 | 35.6 | -16 | 27.6 |
| 168 | 041 | 55 | 38.8 | -16 | 17.6 |
| 168 | 111 | 55 | 42.2 | -16 | 7.6 |
| 168 | 141 | 55 | 45.8 | -15 | 59.0 |
| 168 | 219 | 55 | 49.7 | -15 | 52.2 |
| 168 | 432 | 56 | 3.4 | -15 | 27.0 |
| 168 | 512 | 56 | 6.6 | -15 | 17.8 |
| 168 | 546 | 56 | 9.2 | -15 | 10.9 |
| 168 | 6 4 | 56 | 9.9 | -15 | 12.0 |
| 168 | 624 | 56 | 10.3 | -15 | 13.4 |
| 168 | 658 | 56 | 12.2 | -15 | 13.3 |
| 168 | 734 | 56 | 16.2 | -15 | 13.4 |
| 168 | 758 | 56 | 19.4 | -15 | 12.9 |
| 168 | 843 | 56 | 25.1 | -15 | 12.5 |
| 168 | 856 | 56 | 24.2 | -15 | 11.5 |
| 168 | 922 | 56 | 20.8 | -15 | 11.9 |
| 168 | 932 | 56 | 20.2 | -15 | 11.7 |
| 168 | 1034 | 56 | 27.4 | -15 | 4.7 |
| 168 | 1048 | 56 | 27.9 | -15 | 4.3 |
| 168 | 1138 | 56 | 27.4 | -15 | 3.3 |
| 168 | 1228 | 56 | 22.1 | -15 | 9.3 |
| 168 | 1346 | 56 | 21.8 | -15 | 8.8 |
| 168 | 1412 | 56 | 21.7 | -15 | 8.7 |
| 168 | 15 2 | 56 | 21.8 | -15 | 7.9 |
| 168 | 1547 | 56 | 21.9 | -15 | 7.3 |
| 168 | 1626 | 56 | 22.0 | -15 | 6.0 |
| 168 | 17 4 | 56 | 22.5 | -15 | 4.7 |
| 168 | 1812 | 56 | 30.6 | -14 | 54.6 |
| 168 | 1910 | 56 | 30.0 | -14 | 54.0 |
| 168 | 20 8 | 56 | 30.1 | -14 | 43.3 |
| 168 | 2148 | 56 | 29.8 | -14 | 24.7 |
| 168 | 23 7 | 56 | 29.4 | -14 | 9.2 |
| 169 | 0 5 | 56 | 28.2 | -13 | 56.6 |
| 169 | 129 | 56 | 25.7 | -13 | 38.9 |
| 169 | 443 | 56 | 19.4 | -12 | 59.8 |
| 169 | 6 2 | 56 | 17.5 | -12 | 45.8 |
| 169 | 731 | 56 | 16.7 | -12 | 29.2 |
| 169 | 1018 | 56 | 16.9 | -11 | 58.2 |
| 169 | 1056 | 56 | 16.2 | -11 | 50.7 |
| 169 | 1112 | 56 | 16.1 | -11 | 47.2 |
| 169 | 12 4 | 56 | 22.4 | -11 | 42.1 |
| 169 | 1254 | 56 | 27.5 | -11 | 37.8 |
| 169 | 1318 | 56 | 29.5 | -11 | 35.0 |
| 169 | 1349 | 56 | 32.5 | -11 | 31.0 |
| 169 | 1359 | 56 | 33.3 | -11 | 29.9 |
| 169 | 1413 | 56 | 34.1 | -11 | 28.8 |
| 169 | 1544 | 56 | 41.8 | -11 | 17.9 |
| 169 | 1614 | 56 | 44.2 | -11 | 15.8 |
| 169 | 1740 | 56 | 51.3 | -11 | 12.3 |
| 169 | 1838 | 56 | 51.3 | -11 | 19.1 |
| 169 | 1950 | 56 | 57.2 | -11 | 14.2 |

NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

| DAY NO | TIME H M | LATITUDE | | LONGITUDE | |
|-----------|-------------|----------|------|-----------|------|
| | | DEG | MIN | DEG | MIN |
| 169 | 2133 | 57 | 6.0 | -11 | 8.1 |
| 169 | 2235 | 57 | 12.3 | -11 | 4.8 |
| 170 | 0 7 | 57 | 22.1 | -11 | 0.9 |
| 170 | 250 | 57 | 31.2 | -11 | 26.0 |
| 170 | 359 | 57 | 34.4 | -11 | 35.5 |
| 170 | 6 8 | 57 | 39.9 | -11 | 52.5 |
| 170 | 658 | 57 | 43.0 | -11 | 42.7 |
| 170 | 744 | 57 | 46.1 | -11 | 35.2 |
| 170 | 830 | 57 | 49.3 | -11 | 27.9 |
| 170 | 926 | 57 | 43.4 | -11 | 21.0 |
| 170 | 1124 | 57 | 32.3 | -11 | 2.3 |
| 170 | 1138 | 57 | 31.1 | -10 | 60.0 |
| 170 | 1214 | 57 | 33.8 | -10 | 57.7 |
| 170 | 1348 | 57 | 42.1 | -10 | 51.0 |
| 170 | 1546 | 57 | 52.6 | -10 | 44.0 |
| 170 | 1737 | 58 | 3.1 | -10 | 39.9 |
| 170 | 19 1 | 58 | 12.0 | -10 | 36.5 |
| 170 | 2213 | 58 | 33.5 | -10 | 28.6 |
| 171 | 023 | 58 | 48.7 | -10 | 21.8 |
| 171 | 2 0 | 59 | 0.2 | -10 | 18.4 |
| 171 | 4 1 | 59 | 15.5 | -10 | 14.6 |
| 171 | 549 | 59 | 19.9 | -10 | 34.9 |
| 171 | 643 | 59 | 21.8 | -10 | 45.2 |
| 171 | 8 7 | 59 | 24.8 | -11 | 2.4 |
| 171 | 935 | 59 | 28.6 | -11 | 18.7 |
| 171 | 11 3 | 59 | 32.0 | -11 | 35.4 |
| 171 | 12 1 | 59 | 33.9 | -11 | 45.5 |
| 171 | 1313 | 59 | 35.7 | -11 | 55.8 |
| 171 | 14 9 | 59 | 37.6 | -12 | 5.3 |
| 171 | 1454 | 59 | 40.4 | -12 | 14.5 |
| 171 | 1524 | 59 | 41.8 | -12 | 20.5 |
| 171 | 1637 | 59 | 45.0 | -12 | 35.3 |
| 171 | 1745 | 59 | 48.2 | -12 | 48.5 |
| 171 | 1931 | 59 | 52.9 | -13 | 7.4 |
| 171 | 2033 | 59 | 54.6 | -13 | 14.4 |
| 171 | 2134 | 59 | 56.8 | -13 | 25.4 |
| 171 | 22 6 | 59 | 57.7 | -13 | 31.8 |
| 171 | 2246 | 59 | 54.0 | -13 | 36.2 |
| 171 | 2318 | 59 | 51.1 | -13 | 39.9 |
| 172 | 042 | 59 | 44.1 | -13 | 51.4 |
| 172 | 110 | 59 | 42.0 | -13 | 54.7 |
| 172 | 446 | 59 | 30.1 | -13 | 18.6 |
| 172 | 650 | 59 | 24.6 | -12 | 59.3 |
| 172 | 751 | 59 | 22.4 | -12 | 50.8 |
| 172 | 825 | 59 | 20.7 | -12 | 45.9 |
| 172 | 855 | 59 | 19.2 | -12 | 41.9 |
| 172 | 10 4 | 59 | 15.8 | -12 | 31.6 |
| 172 | 1038 | 59 | 13.7 | -12 | 26.1 |
| 172 | 1115 | 59 | 12.6 | -12 | 31.9 |
| 172 | 1245 | 59 | 9.6 | -12 | 46.9 |
| 172 | 1350 | 59 | 7.1 | -12 | 58.8 |
| 172 | 1512 | 59 | 2.2 | -13 | 15.2 |
| 172 | 1622 | 58 | 58.4 | -13 | 28.9 |
| 172 | 1735 | 58 | 54.8 | -13 | 44.0 |
| 172 | 1817 | 58 | 52.9 | -13 | 52.3 |
| 172 | 1958 | 58 | 49.3 | -14 | 11.1 |
| 172 | 2121 | 58 | 47.0 | -14 | 26.5 |
| 172 | 23 6 | 58 | 43.4 | -14 | 45.0 |
| 173 | 1 2 | 58 | 37.7 | -15 | 6.9 |
| 173 | 251 | 58 | 32.6 | -15 | 27.8 |
| 173 | 454 | 58 | 26.9 | -15 | 51.2 |
| 173 | 626 | 58 | 23.8 | -16 | 7.4 |
| 173 | 8 2 | 58 | 21.0 | -16 | 20.8 |
| 173 | 930 | 58 | 18.7 | -16 | 30.5 |
| 173 | 1021 | 58 | 18.5 | -16 | 35.1 |
| 173 | 1141 | 58 | 18.8 | -16 | 41.7 |
| 173 | 1221 | 58 | 20.0 | -16 | 45.2 |
| 173 | 1334 | 58 | 22.5 | -16 | 51.2 |
| 173 | 1416 | 58 | 23.9 | -16 | 56.1 |
| 173 | 1531 | 58 | 26.3 | -17 | 5.8 |
| 173 | 1613 | 58 | 27.6 | -17 | 11.7 |
| 173 | 1731 | 58 | 30.5 | -17 | 21.6 |
| 173 | 1921 | 58 | 34.7 | -17 | 34.9 |
| 173 | 2031 | 58 | 37.5 | -17 | 43.6 |
| 173 | 2142 | 58 | 39.6 | -17 | 50.9 |

NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

| DAY NO | TIME H M | LATITUDE | | LONGITUDE | |
|-----------|-------------|----------|------|-----------|------|
| | | DEG | MIN | DEG | MIN |
| 173 | 2314 | 58 | 42.1 | -18 | 1.5 |
| 174 | 126 | 58 | 45.7 | -18 | 19.4 |
| 174 | 246 | 58 | 48.0 | -18 | 31.5 |
| 174 | 5 7 | 58 | 52.4 | -18 | 50.8 |
| 174 | 652 | 58 | 56.8 | -19 | 5.3 |
| 174 | 746 | 58 | 59.2 | -19 | 12.2 |
| 174 | 8 2 | 58 | 59.9 | -19 | 14.3 |
| 174 | 912 | 59 | 2.4 | -19 | 23.2 |
| 174 | 1035 | 58 | 53.2 | -19 | 18.3 |
| 174 | 1130 | 58 | 47.8 | -19 | 15.3 |
| 174 | 1210 | 58 | 46.3 | -19 | 14.1 |
| 174 | 1337 | 58 | 37.2 | -19 | 9.1 |
| 174 | 1439 | 58 | 30.7 | -19 | 6.0 |
| 174 | 1649 | 58 | 16.9 | -18 | 59.4 |
| 174 | 1831 | 58 | 5.7 | -18 | 54.3 |
| 174 | 2136 | 57 | 45.1 | -18 | 45.1 |
| 174 | 2318 | 57 | 39.4 | -18 | 26.2 |
| 175 | 1 3 | 57 | 34.2 | -18 | 7.0 |
| 175 | 334 | 57 | 26.5 | -17 | 38.4 |
| 175 | 542 | 57 | 20.0 | -17 | 13.5 |
| 175 | 10 5 | 57 | 5.9 | -16 | 25.1 |
| 175 | 11 1 | 57 | 2.6 | -16 | 14.9 |
| 175 | 12 2 | 56 | 58.9 | -16 | 5.0 |
| 175 | 1256 | 56 | 55.8 | -15 | 55.7 |
| 175 | 1453 | 56 | 49.6 | -15 | 34.2 |
| 175 | 16 7 | 56 | 45.3 | -15 | 21.1 |
| 175 | 17 1 | 56 | 41.4 | -15 | 13.7 |
| 175 | 1724 | 56 | 38.6 | -15 | 13.8 |
| 175 | 1848 | 56 | 32.8 | -15 | 12.5 |
| 175 | 1929 | 56 | 26.4 | -15 | 12.7 |
| 175 | 1949 | 56 | 23.2 | -15 | 13.2 |
| 175 | 2036 | 56 | 23.4 | -15 | 13.2 |
| 175 | 2130 | 56 | 22.8 | -15 | 13.3 |
| 175 | 2152 | 56 | 21.9 | -15 | 13.8 |
| 175 | 2246 | 56 | 22.1 | -15 | 12.8 |
| 175 | 2258 | 56 | 22.2 | -15 | 11.4 |
| 175 | 2336 | 56 | 21.7 | -15 | 11.2 |
| 175 | 2348 | 56 | 20.8 | -15 | 10.9 |
| 176 | 0 2 | 56 | 19.3 | -15 | 10.6 |
| 176 | 038 | 56 | 19.1 | -15 | 10.8 |
| 176 | 054 | 56 | 18.3 | -15 | 12.9 |
| 176 | 231 | 56 | 17.6 | -15 | 13.1 |
| 176 | 251 | 56 | 17.4 | -15 | 12.9 |
| 176 | 3 5 | 56 | 16.8 | -15 | 12.5 |
| 176 | 351 | 56 | 16.7 | -15 | 12.6 |
| 176 | 425 | 56 | 16.0 | -15 | 12.4 |
| 176 | 437 | 56 | 15.0 | -15 | 12.3 |
| 176 | 5 5 | 56 | 14.5 | -15 | 12.7 |
| 176 | 525 | 56 | 13.7 | -15 | 15.9 |
| 176 | 6 1 | 56 | 14.0 | -15 | 15.6 |
| 176 | 617 | 56 | 15.7 | -15 | 14.7 |
| 176 | 715 | 56 | 15.8 | -15 | 14.5 |
| 176 | 729 | 56 | 17.5 | -15 | 14.4 |
| 176 | 8 1 | 56 | 17.7 | -15 | 14.7 |
| 176 | 825 | 56 | 19.5 | -15 | 15.7 |
| 176 | 857 | 56 | 19.3 | -15 | 15.6 |
| 176 | 933 | 56 | 19.7 | -15 | 14.9 |
| 176 | 943 | 56 | 20.3 | -15 | 12.9 |
| 176 | 1025 | 56 | 20.7 | -15 | 13.2 |
| 176 | 1055 | 56 | 21.1 | -15 | 13.0 |
| 176 | 1119 | 56 | 23.4 | -15 | 14.9 |
| 176 | 1147 | 56 | 23.3 | -15 | 14.9 |
| 176 | 1219 | 56 | 23.0 | -15 | 13.4 |
| 176 | 1229 | 56 | 22.4 | -15 | 11.4 |
| 176 | 1345 | 56 | 22.5 | -15 | 12.4 |
| 176 | 1415 | 56 | 22.4 | -15 | 12.6 |
| 176 | 1521 | 56 | 21.5 | -15 | 18.9 |
| 176 | 1753 | 56 | 22.9 | -15 | 38.5 |
| 176 | 1849 | 56 | 23.2 | -15 | 45.1 |
| 176 | 2046 | 56 | 24.1 | -15 | 58.6 |
| 176 | 2230 | 56 | 25.4 | -16 | 11.6 |
| 176 | 2352 | 56 | 25.9 | -16 | 20.0 |
| 177 | 2 2 | 56 | 27.0 | -16 | 34.7 |
| 177 | 456 | 56 | 27.8 | -16 | 52.7 |
| 177 | 639 | 56 | 27.8 | -17 | 4.0 |

NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

| DAY | TIME | LATITUDE | | LONGITUDE | |
|-----|------|----------|------|-----------|------|
| | | DEG | MIN | DEG | MIN |
| 177 | 8 6 | 56 | 27.4 | -17 | 13.2 |
| 177 | 953 | 56 | 27.6 | -17 | 25.9 |
| 177 | 1038 | 56 | 27.8 | -17 | 31.8 |
| 177 | 1439 | 56 | 28.3 | -18 | 1.3 |
| 177 | 1559 | 56 | 28.2 | -18 | 12.5 |
| 177 | 1830 | 56 | 28.1 | -18 | 35.2 |
| 177 | 1919 | 56 | 28.0 | -18 | 41.3 |
| 177 | 2023 | 56 | 28.4 | -18 | 49.4 |
| 177 | 22 3 | 56 | 29.3 | -19 | 2.0 |
| 177 | 2352 | 56 | 23.0 | -19 | 16.8 |
| 178 | 222 | 56 | 15.5 | -19 | 35.7 |
| 178 | 324 | 56 | 12.1 | -19 | 43.9 |
| 178 | 548 | 56 | 3.6 | -20 | 4.0 |
| 178 | 854 | 55 | 52.4 | -20 | 28.7 |
| 178 | 1128 | 55 | 42.5 | -20 | 48.9 |
| 178 | 1227 | 55 | 38.9 | -20 | 56.9 |
| 178 | 1414 | 55 | 31.6 | -21 | 12.8 |
| 178 | 1534 | 55 | 26.0 | -21 | 25.1 |
| 178 | 1650 | 55 | 20.7 | -21 | 35.5 |
| 178 | 18 8 | 55 | 15.2 | -21 | 45.6 |
| 178 | 1844 | 55 | 12.9 | -21 | 49.6 |
| 178 | 1919 | 55 | 11.2 | -21 | 51.1 |
| 178 | 1953 | 55 | 12.1 | -21 | 42.4 |
| 178 | 2037 | 55 | 14.2 | -21 | 29.8 |
| 178 | 2129 | 55 | 17.3 | -21 | 11.9 |
| 178 | 23 4 | 55 | 22.7 | -20 | 41.1 |
| 179 | 115 | 55 | 30.6 | -19 | 58.5 |
| 179 | 343 | 55 | 40.2 | -19 | 8.6 |
| 179 | 6 2 | 55 | 48.3 | -18 | 21.3 |
| 179 | 742 | 55 | 54.7 | -17 | 46.7 |
| 179 | 850 | 55 | 58.9 | -17 | 22.9 |
| 179 | 1015 | 56 | 3.9 | -16 | 53.6 |
| 179 | 1141 | 56 | 9.4 | -16 | 23.7 |
| 179 | 1319 | 56 | 15.1 | -15 | 48.6 |
| 179 | 14 3 | 56 | 17.8 | -15 | 32.4 |
| 179 | 1419 | 56 | 18.2 | -15 | 29.8 |
| 179 | 15 2 | 56 | 21.1 | -15 | 19.1 |
| 179 | 1532 | 56 | 23.0 | -15 | 11.9 |
| 179 | 1554 | 56 | 22.8 | -15 | 12.2 |
| 179 | 1628 | 56 | 23.1 | -15 | 12.0 |
| 179 | 17 4 | 56 | 22.9 | -15 | 11.6 |
| 179 | 2315 | 56 | 22.9 | -15 | 11.6 |
| 180 | 031 | 56 | 22.9 | -15 | 12.7 |
| 180 | 059 | 56 | 22.7 | -15 | 12.8 |
| 180 | 111 | 56 | 22.5 | -15 | 11.6 |
| 180 | 133 | 56 | 23.4 | -15 | 5.2 |
| 180 | 2 1 | 56 | 24.7 | -14 | 57.8 |
| 180 | 237 | 56 | 25.2 | -14 | 57.5 |
| 180 | 3 1 | 56 | 21.8 | -14 | 52.8 |
| 180 | 323 | 56 | 18.7 | -14 | 48.7 |
| 180 | 349 | 56 | 18.6 | -14 | 47.8 |
| 180 | 4 1 | 56 | 18.1 | -14 | 49.3 |
| 180 | 443 | 56 | 15.3 | -14 | 58.0 |
| 180 | 515 | 56 | 15.2 | -14 | 58.0 |
| 180 | 6 0 | 56 | 11.1 | -15 | 6.0 |
| 180 | 614 | 56 | 10.0 | -15 | 7.6 |
| 180 | 644 | 56 | 10.1 | -15 | 8.2 |
| 180 | 715 | 56 | 11.0 | -15 | 15.3 |
| 180 | 729 | 56 | 11.5 | -15 | 18.3 |
| 180 | 723 | 56 | 11.3 | -15 | 17.4 |
| 180 | 741 | 56 | 11.4 | -15 | 18.8 |
| 180 | 759 | 56 | 11.7 | -15 | 19.4 |
| 180 | 817 | 56 | 13.9 | -15 | 19.1 |
| 180 | 845 | 56 | 16.2 | -15 | 12.9 |
| 180 | 9 0 | 56 | 15.8 | -15 | 12.4 |
| 180 | 923 | 56 | 16.4 | -15 | 12.8 |
| 180 | 959 | 56 | 16.3 | -15 | 11.6 |
| 180 | 1149 | 56 | 16.3 | -15 | 12.3 |
| 180 | 1546 | 56 | 16.4 | -15 | 12.0 |
| 180 | 2152 | 56 | 16.0 | -15 | 11.9 |
| 180 | 2214 | 56 | 15.7 | -15 | 10.1 |
| 180 | 2243 | 56 | 18.3 | -15 | 6.9 |
| 181 | 0 5 | 56 | 31.7 | -15 | 2.8 |
| 181 | 027 | 56 | 31.3 | -15 | 2.9 |
| 181 | 045 | 56 | 31.1 | -15 | 2.5 |

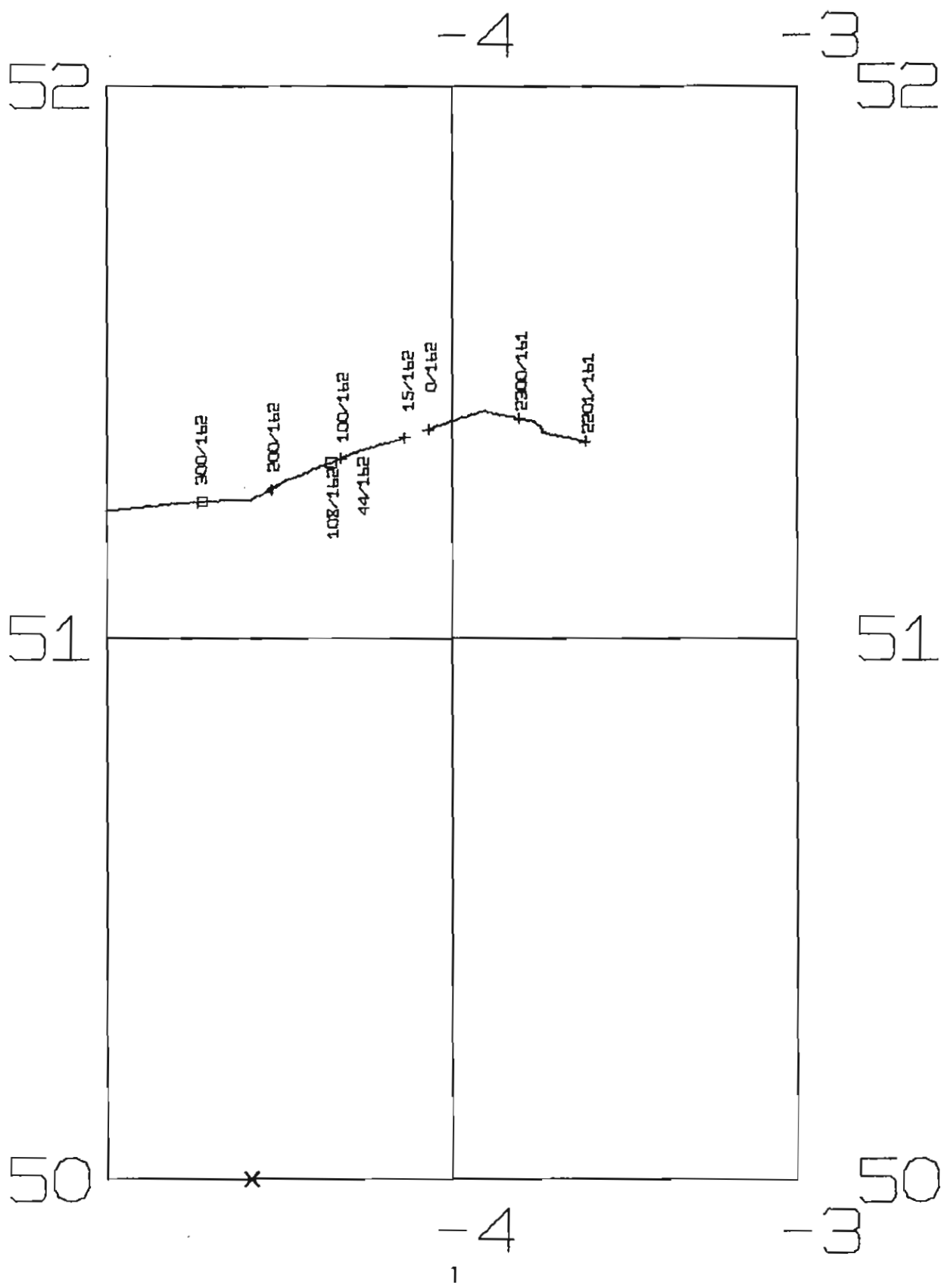
NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

| DAY NO | TIME H M | LATITUDE | | LONGITUDE | |
|-----------|-------------|----------|------|-----------|------|
| | | DEG | MIN | DEG | MIN |
| 181 | 2 9 | 56 | 41.0 | -14 | 51.8 |
| 181 | 23 9 | 56 | 40.9 | -14 | 51.4 |
| 181 | 33 1 | 56 | 48.3 | -14 | 47.1 |
| 181 | 43 0 | 56 | 57.8 | -14 | 43.2 |
| 181 | 45 8 | 56 | 57.3 | -14 | 43.3 |
| 181 | 51 0 | 56 | 57.4 | -14 | 44.3 |
| 181 | 6 1 | 57 | 0.9 | -14 | 54.3 |
| 181 | 6 45 | 57 | 0.7 | -14 | 54.1 |
| 181 | 7 29 | 57 | 6.5 | -14 | 52.4 |
| 181 | 7 55 | 57 | 6.1 | -14 | 52.0 |
| 181 | 8 5 | 57 | 6.4 | -14 | 51.3 |
| 181 | 8 49 | 57 | 4.8 | -14 | 38.3 |
| 181 | 9 21 | 57 | 4.4 | -14 | 37.6 |
| 181 | 9 45 | 57 | 3.3 | -14 | 32.4 |
| 181 | 9 57 | 57 | 3.8 | -14 | 33.3 |
| 181 | 10 15 | 57 | 3.6 | -14 | 33.6 |
| 181 | 12 2 | 57 | 4.1 | -14 | 32.3 |
| 181 | 14 52 | 57 | 3.5 | -14 | 31.9 |
| 181 | 15 9 | 57 | 2.3 | -14 | 31.3 |
| 181 | 16 9 | 56 | 54.6 | -14 | 27.2 |
| 181 | 16 23 | 56 | 53.0 | -14 | 27.0 |
| 181 | 17 10 | 56 | 48.3 | -14 | 30.7 |
| 181 | 17 58 | 56 | 44.4 | -14 | 34.3 |
| 181 | 20 3 | 56 | 36.3 | -14 | 39.9 |
| 181 | 21 43 | 56 | 30.9 | -14 | 43.7 |
| 181 | 22 48 | 56 | 26.8 | -14 | 45.4 |
| 182 | 0 5 | 56 | 21.9 | -14 | 53.1 |
| 182 | 03 7 | 56 | 20.7 | -14 | 54.2 |
| 182 | 11 6 | 56 | 18.6 | -14 | 49.9 |
| 182 | 22 6 | 56 | 12.7 | -14 | 39.9 |
| 182 | 41 9 | 56 | 3.4 | -14 | 24.0 |
| 182 | 7 5 | 55 | 51.0 | -14 | 0.3 |
| 182 | 8 19 | 55 | 45.6 | -13 | 50.3 |
| 182 | 8 59 | 55 | 42.5 | -13 | 45.2 |
| 182 | 12 34 | 55 | 27.6 | -13 | 16.4 |
| 182 | 13 27 | 55 | 23.9 | -13 | 8.9 |
| 182 | 14 53 | 55 | 16.8 | -12 | 56.5 |
| 182 | 16 33 | 55 | 7.7 | -12 | 43.0 |
| 182 | 17 28 | 55 | 3.0 | -12 | 36.4 |
| 182 | 18 52 | 54 | 55.4 | -12 | 26.4 |
| 182 | 21 50 | 54 | 39.9 | -12 | 8.2 |
| 183 | 0 7 | 54 | 29.1 | -11 | 52.0 |
| 183 | 23 5 | 54 | 17.7 | -11 | 33.4 |
| 183 | 42 5 | 54 | 8.3 | -11 | 20.1 |
| 183 | 53 5 | 54 | 2.6 | -11 | 11.2 |
| 183 | 7 9 | 53 | 55.5 | -10 | 57.2 |
| 183 | 7 31 | 53 | 54.0 | -10 | 53.8 |
| 183 | 8 3 | 53 | 52.8 | -10 | 52.5 |
| 183 | 8 17 | 53 | 52.2 | -10 | 51.4 |
| 183 | 9 5 | 53 | 45.3 | -10 | 52.3 |
| 183 | 11 49 | 53 | 15.7 | -10 | 56.6 |
| 183 | 14 9 | 52 | 50.6 | -10 | 59.0 |
| 183 | 15 3 | 52 | 41.1 | -11 | 0.2 |
| 183 | 15 38 | 52 | 39.6 | -11 | 2.5 |
| 183 | 16 5 | 52 | 38.2 | -11 | 4.2 |
| 183 | 17 25 | 52 | 27.1 | -11 | 3.7 |
| 183 | 19 9 | 52 | 7.8 | -11 | 2.3 |
| 183 | 20 48 | 51 | 51.0 | -10 | 46.7 |
| 183 | 21 38 | 51 | 42.5 | -10 | 39.1 |
| 183 | 22 30 | 51 | 32.6 | -10 | 31.5 |
| 183 | 23 6 | 51 | 26.2 | -10 | 25.3 |
| 184 | 01 8 | 51 | 19.1 | -10 | 4.5 |
| 184 | 13 6 | 51 | 12.0 | -9 | 42.4 |
| 184 | 4 4 | 51 | 11.8 | -8 | 54.7 |
| 184 | 5 36 | 51 | 12.4 | -8 | 23.4 |
| 184 | 7 54 | 51 | 13.5 | -7 | 36.0 |
| 184 | 9 47 | 51 | 13.7 | -6 | 57.9 |
| 184 | 11 44 | 51 | 13.3 | -6 | 19.3 |
| 184 | 14 12 | 51 | 13.2 | -5 | 32.3 |
| 184 | 15 57 | 51 | 14.5 | -5 | 0.5 |
| 184 | 16 43 | 51 | 15.0 | -4 | 50.3 |
| 184 | 17 42 | 51 | 15.2 | -4 | 36.9 |
| 184 | 18 12 | 51 | 14.9 | -4 | 29.4 |
| 184 | 19 10 | 51 | 13.8 | -4 | 14.7 |
| 184 | 19 36 | 51 | 13.6 | -4 | 7.5 |

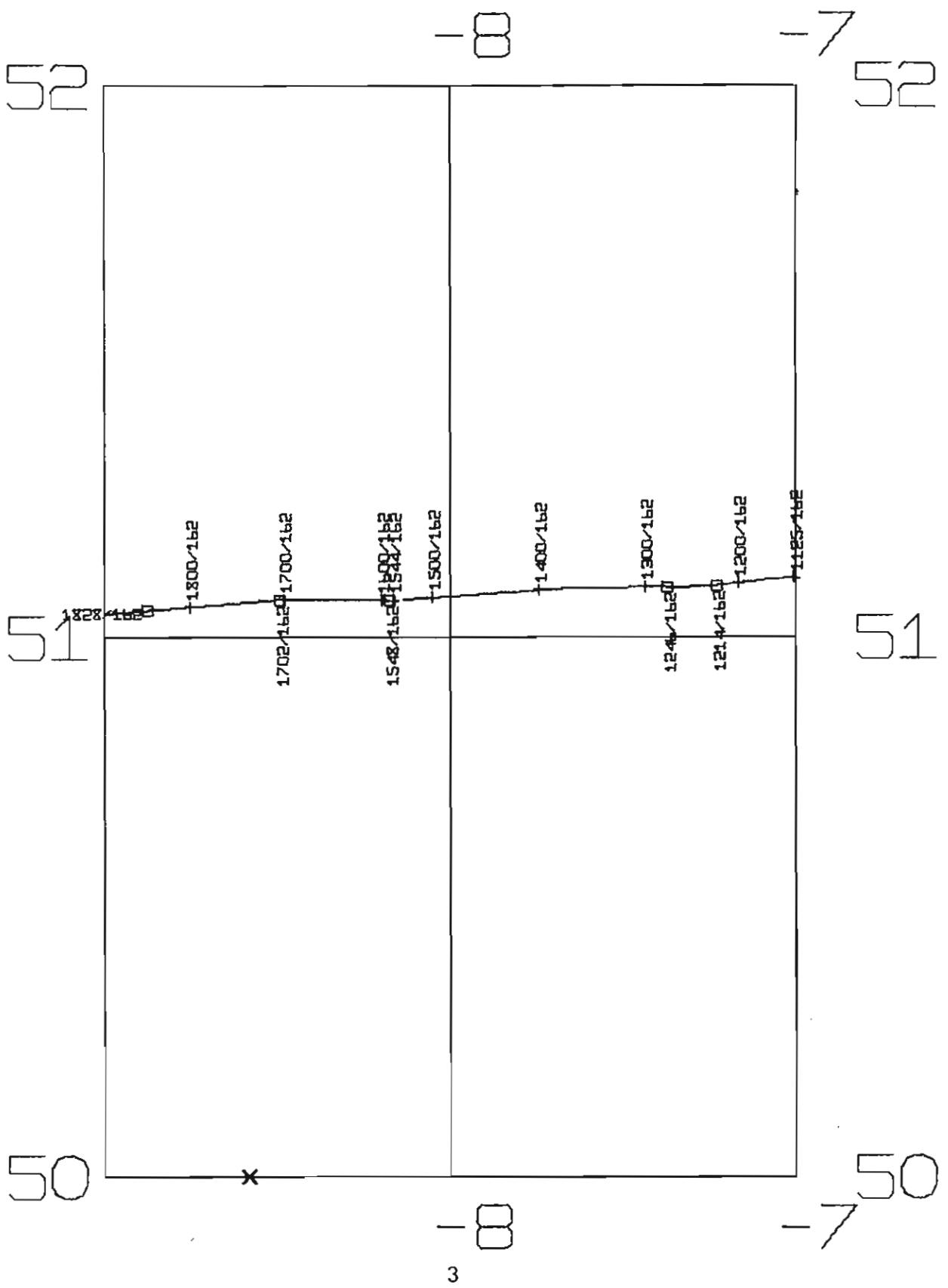
B7

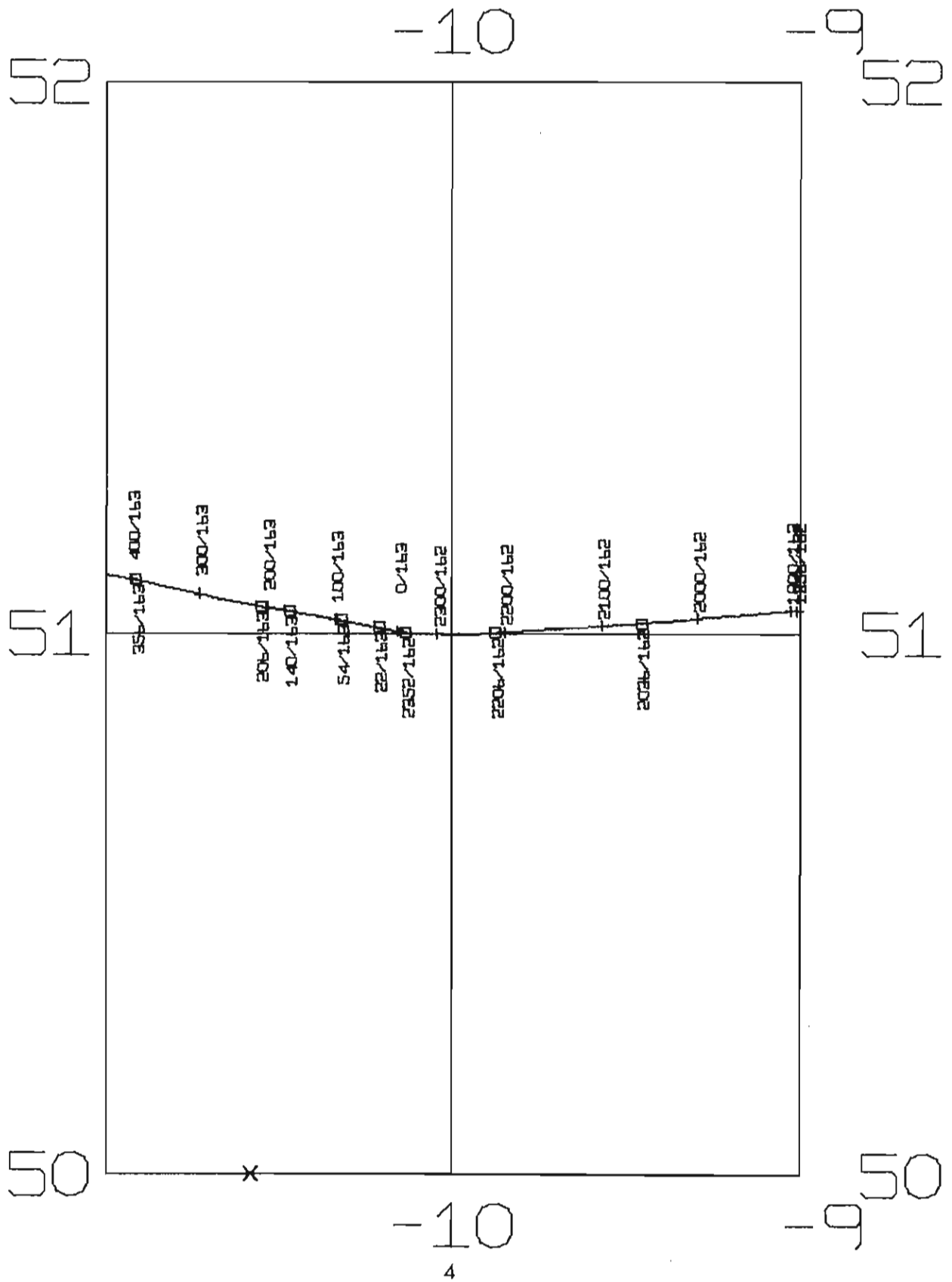
NAVIGATION POINTS FOR DISCOVERY CRUISE 47 LEG 1

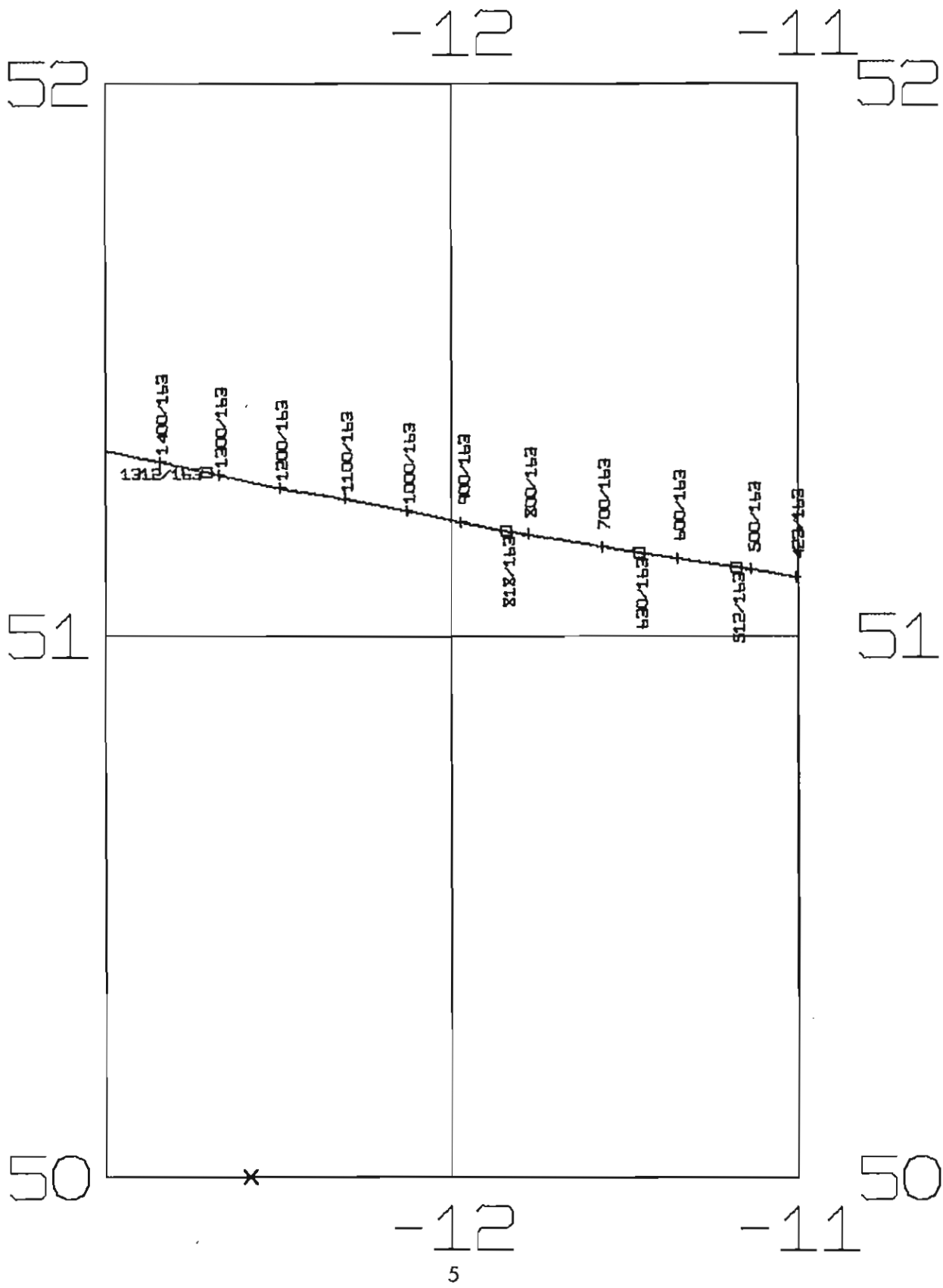
| DAY | TIME | LATITUDE | | LONGITUDE | |
|-----|-------|----------|------|-----------|------|
| NO | H M | DEG | MIN | DEG | MIN |
| 184 | 20 10 | 51 | 14.9 | -3 | 56.5 |
| 184 | 22 7 | 51 | 19.9 | -3 | 20.0 |

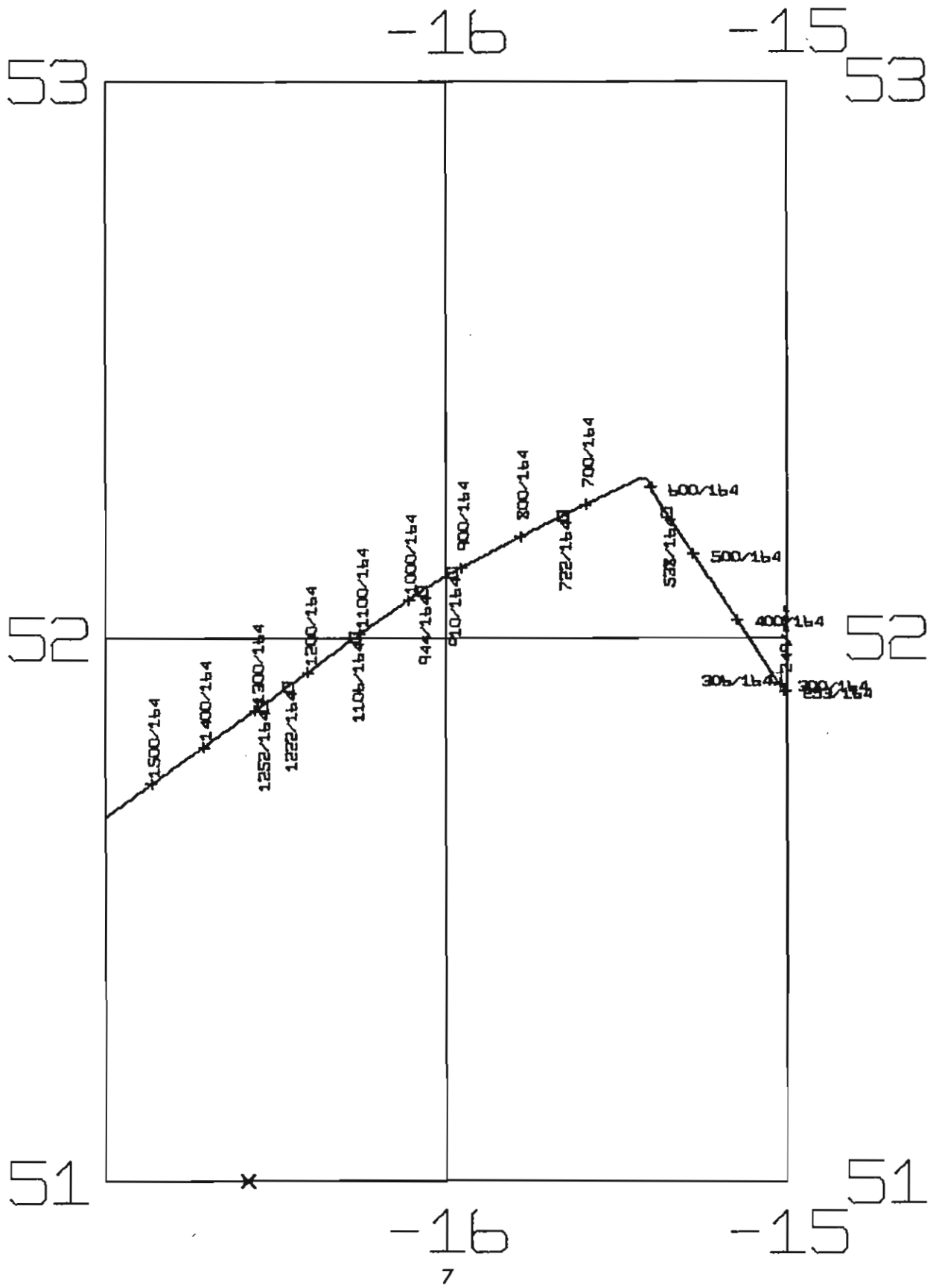


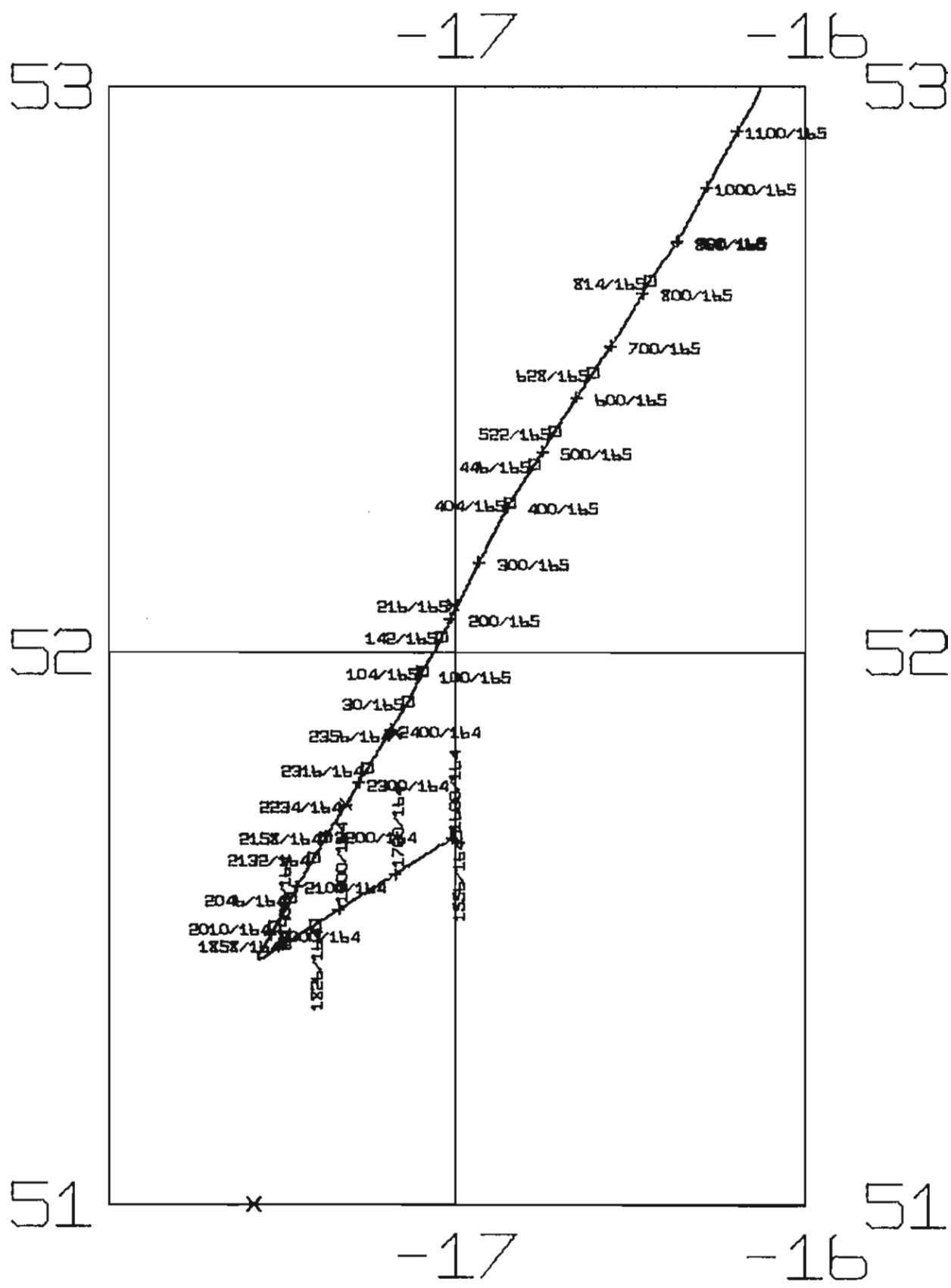


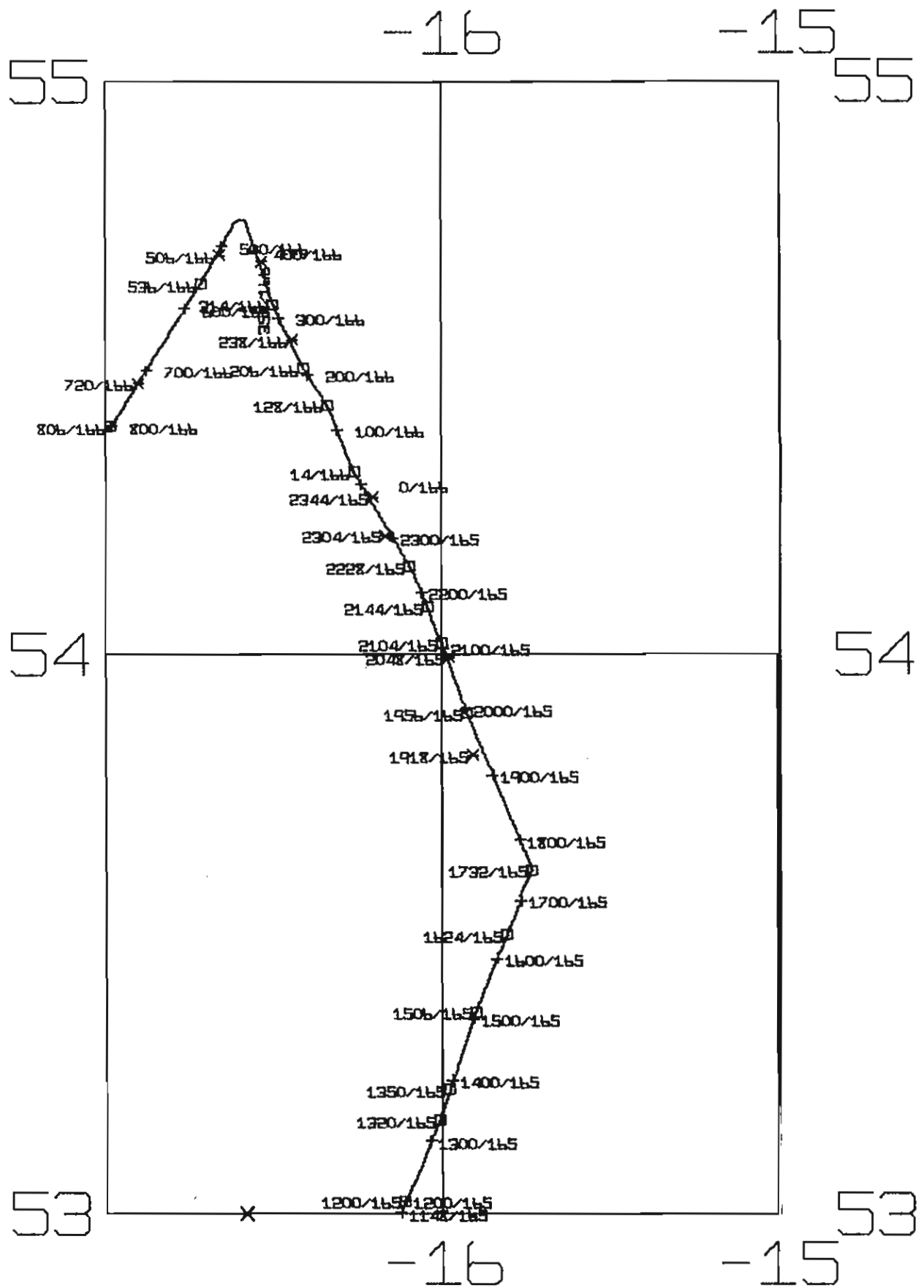


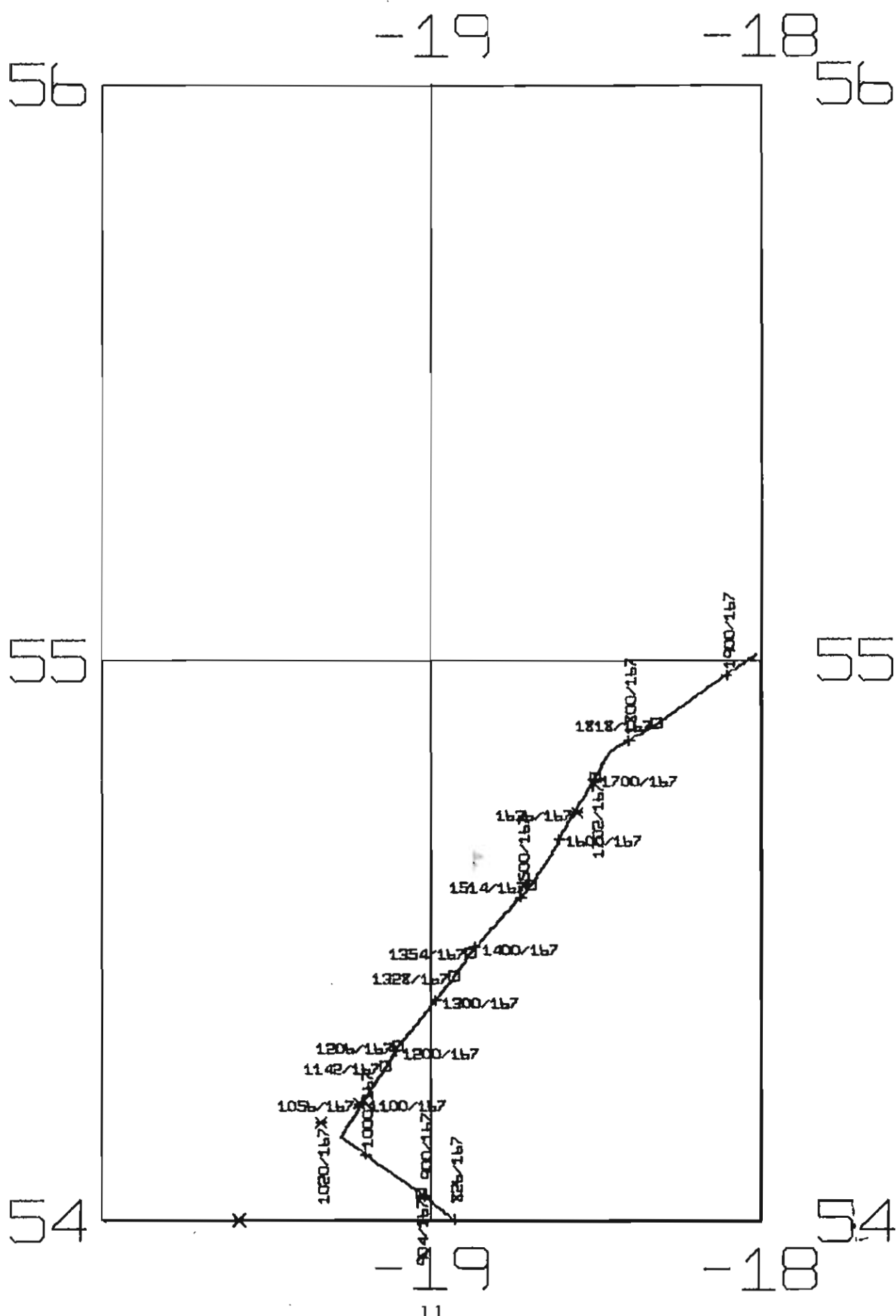


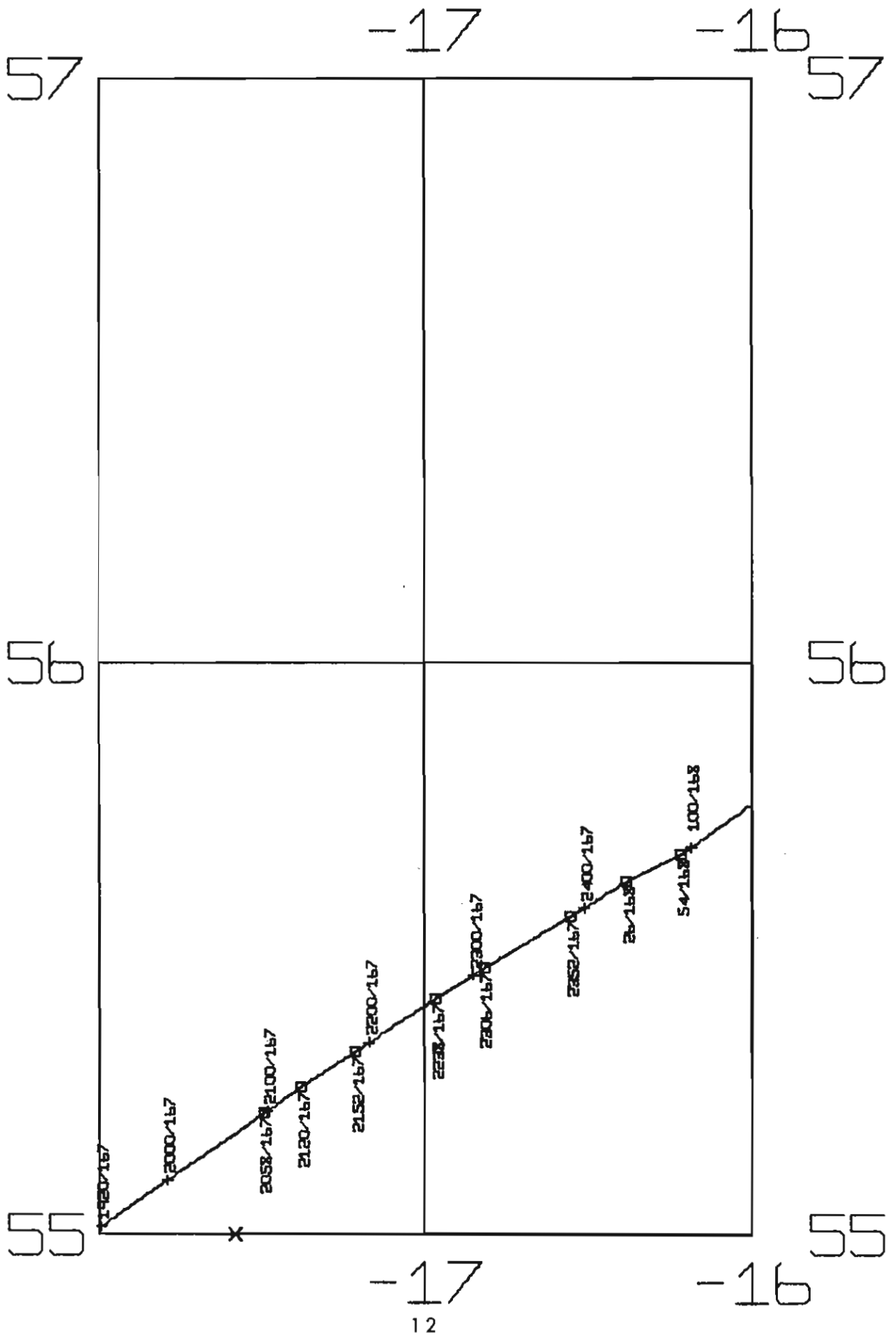


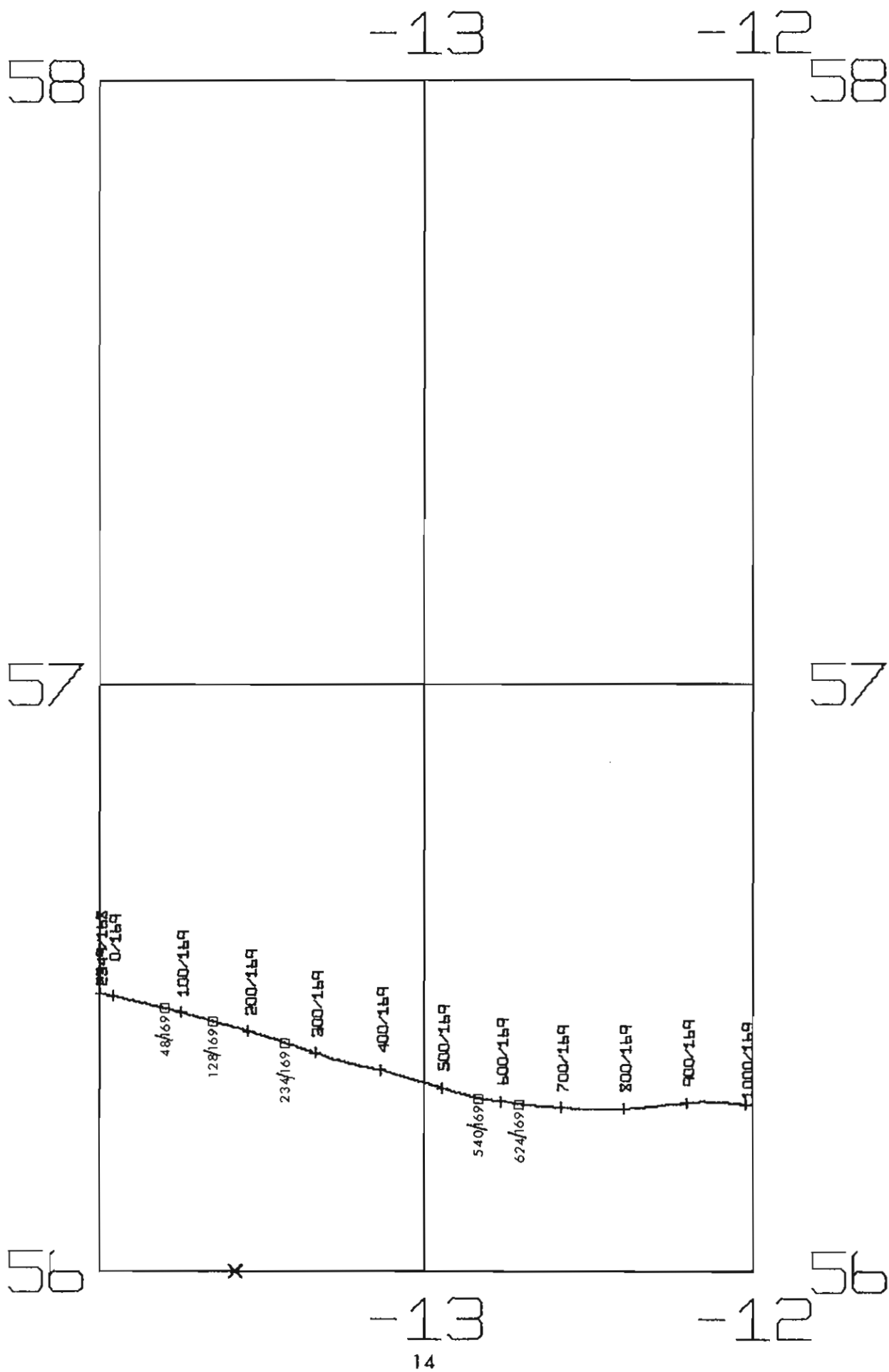










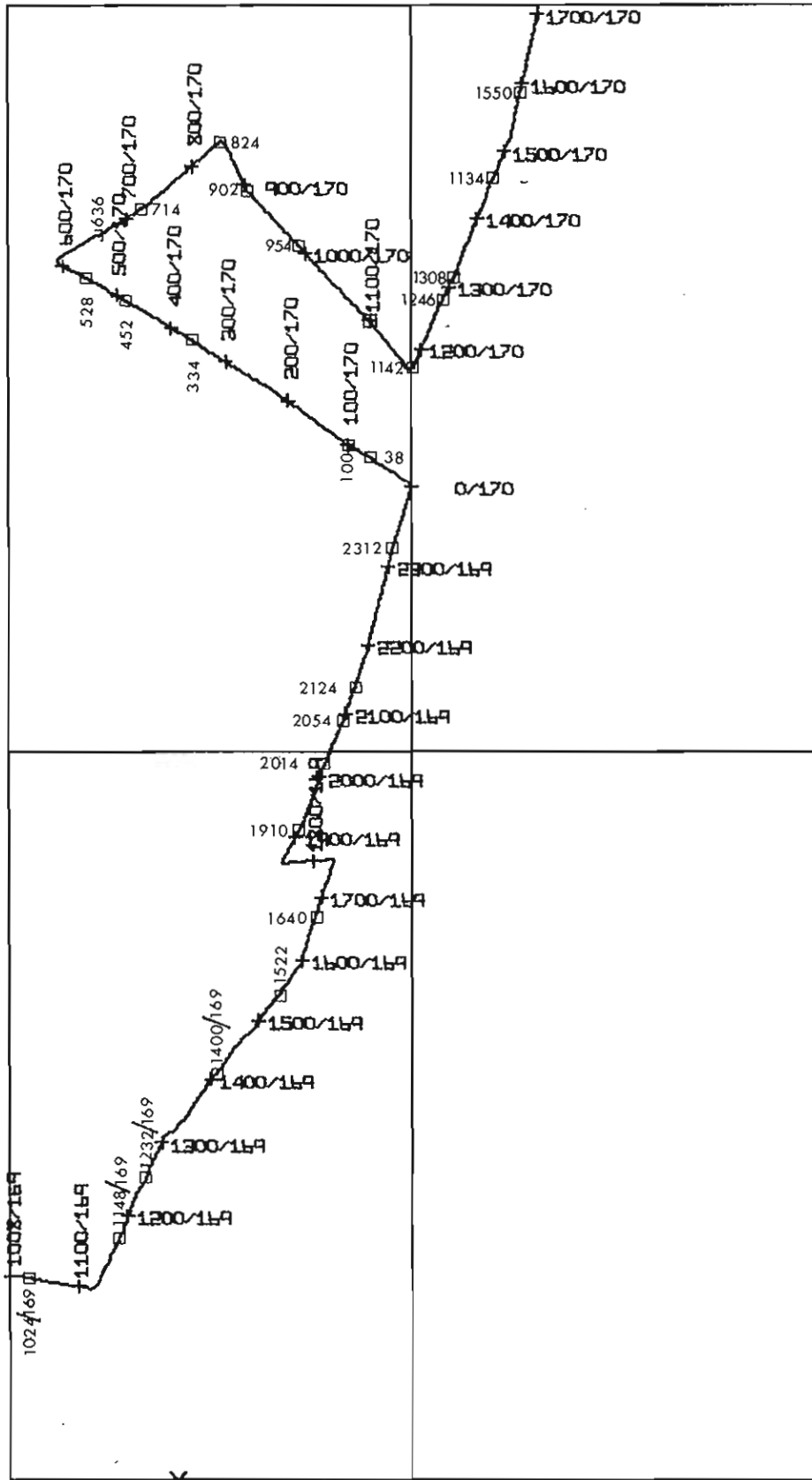


58

-11

-10

58



57

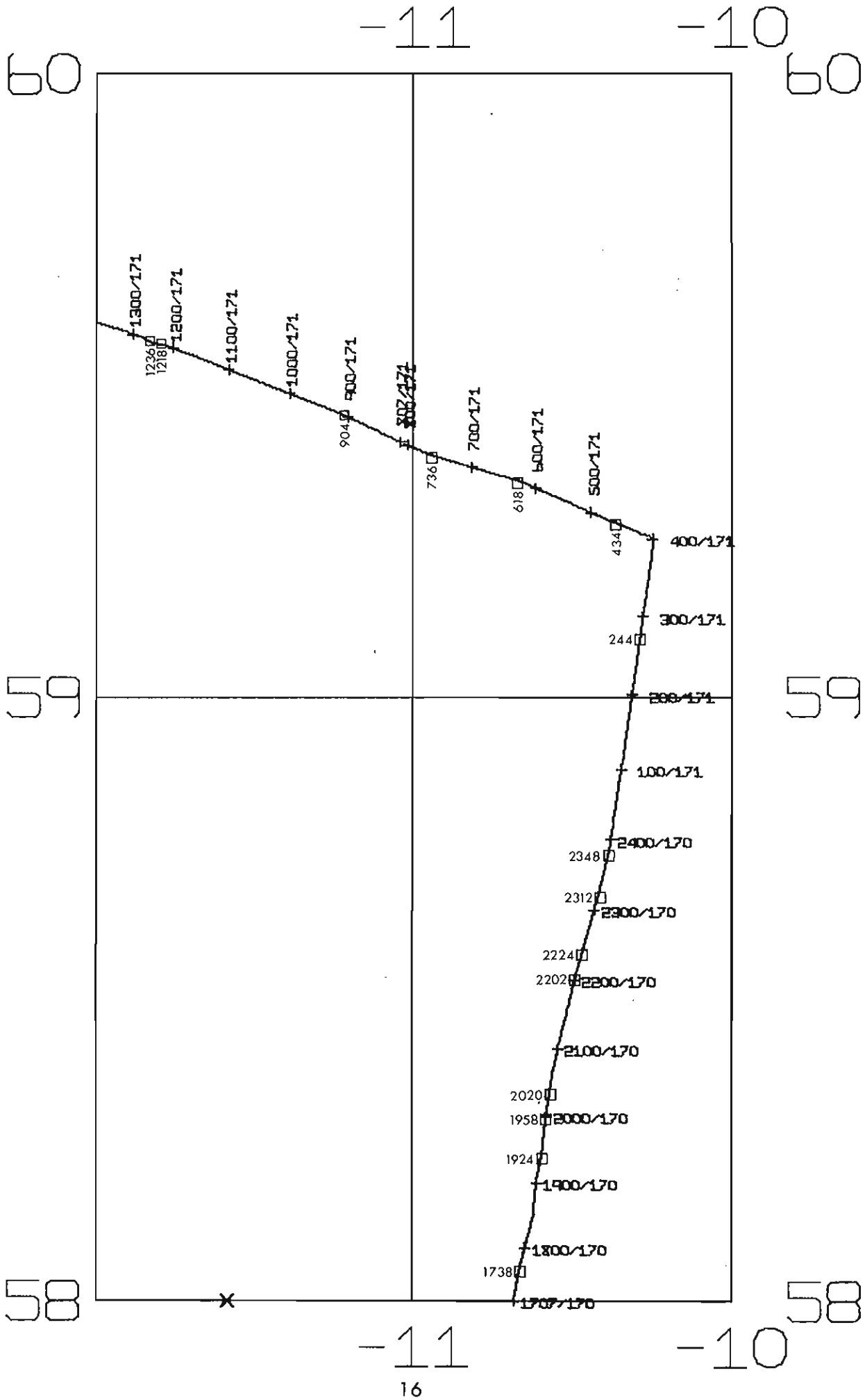
57

56

-11

-10

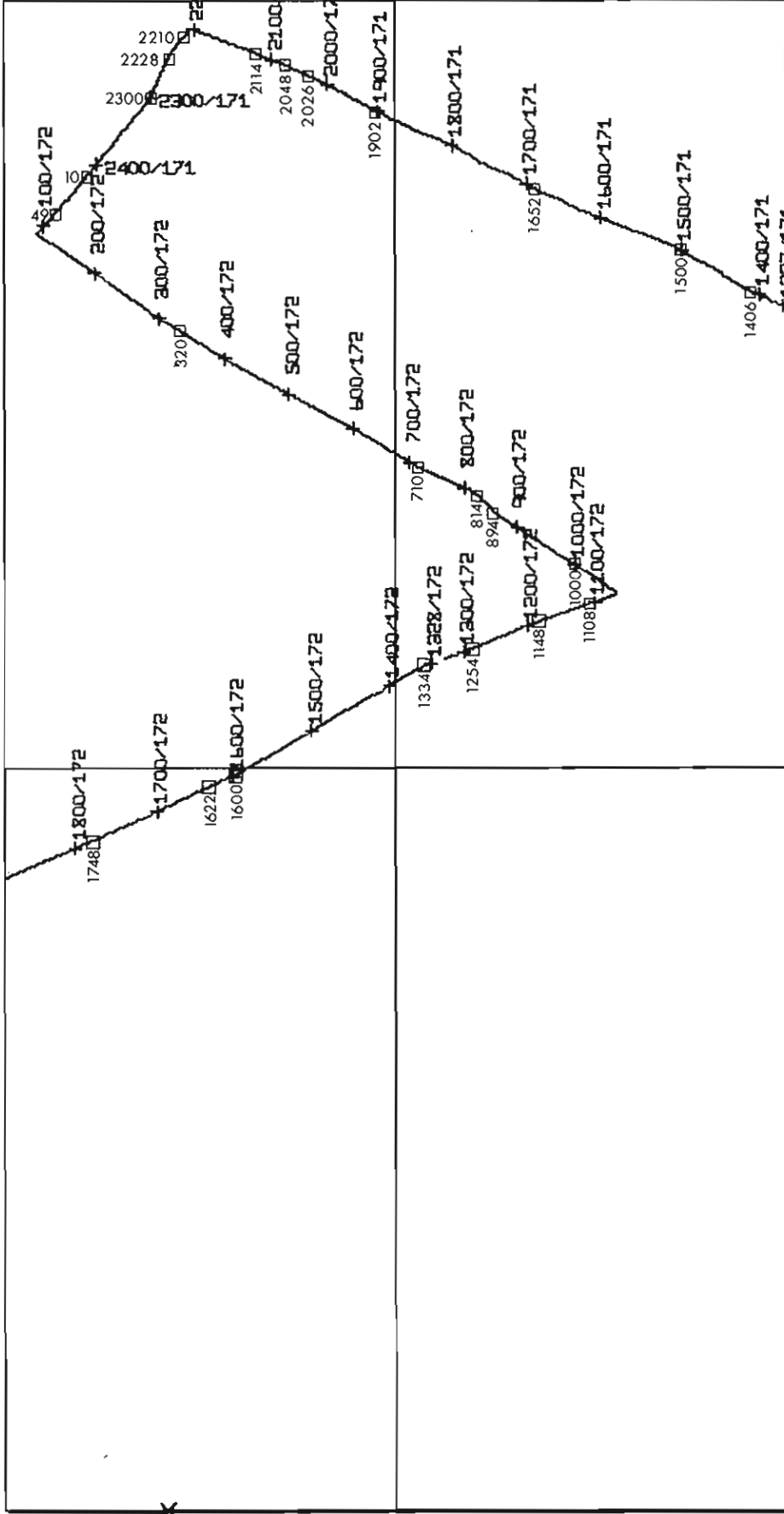
56



58

59

60



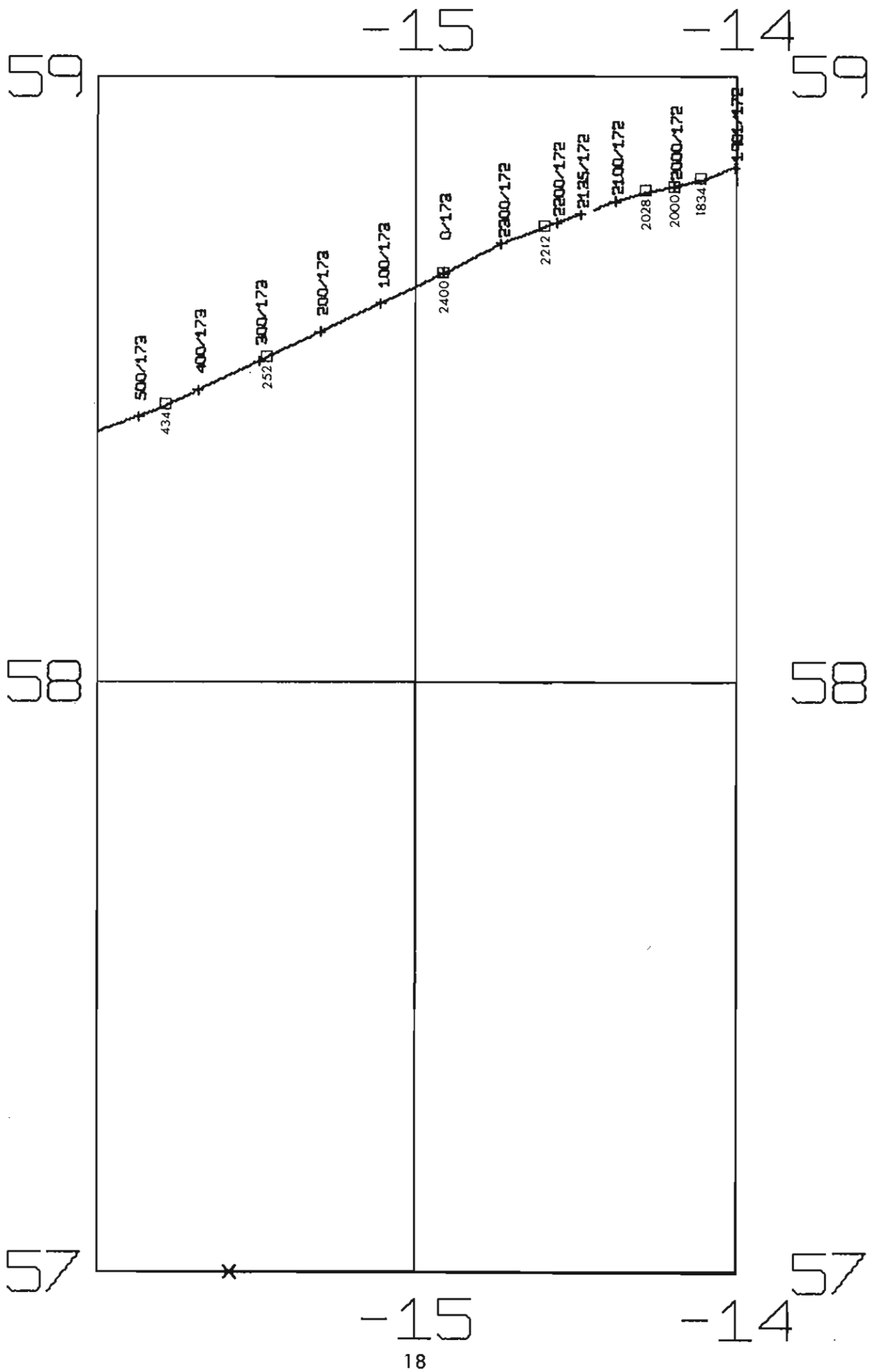
13

12

58

59

60



57

58

59

-17

-17

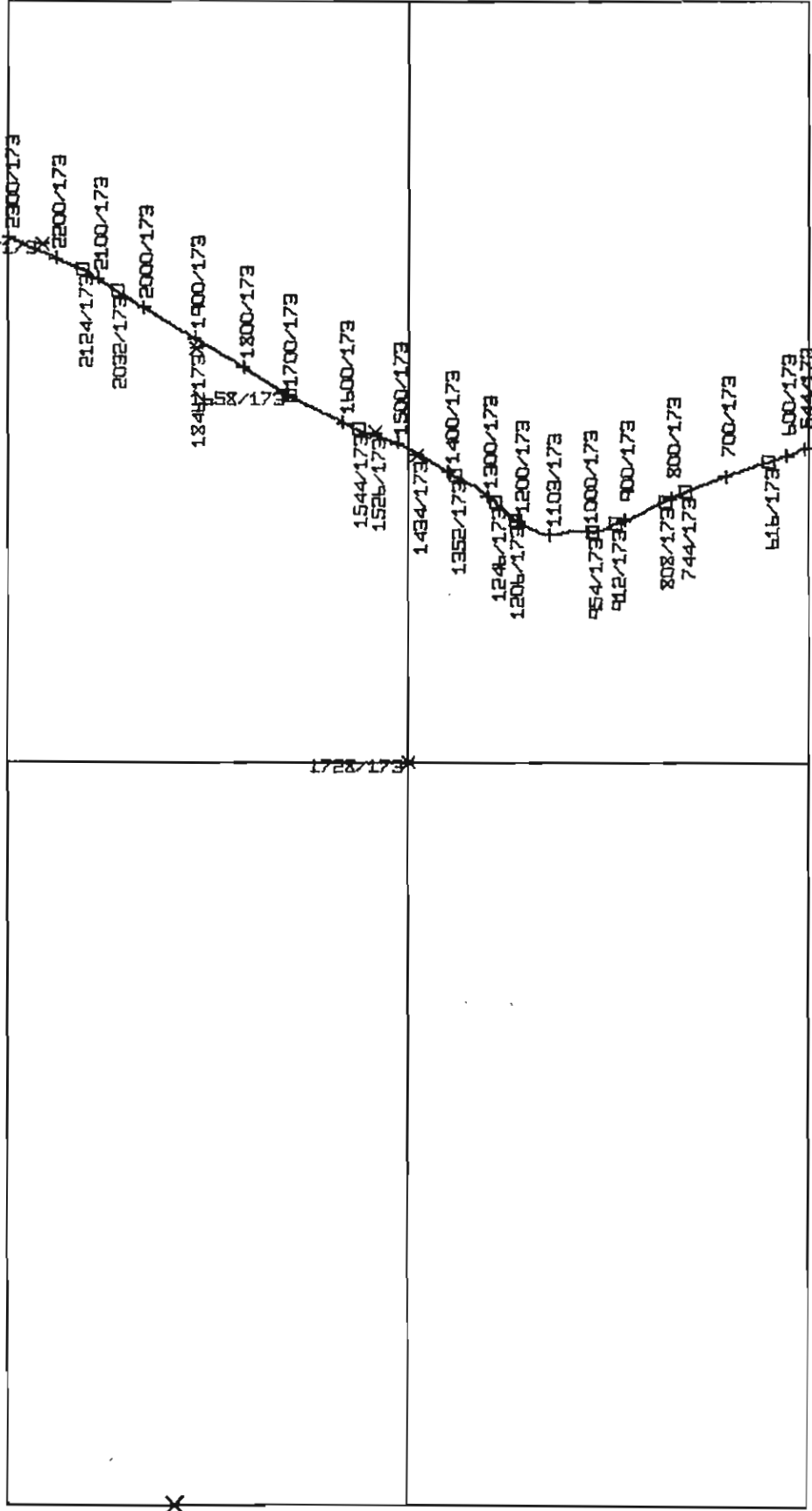
-16

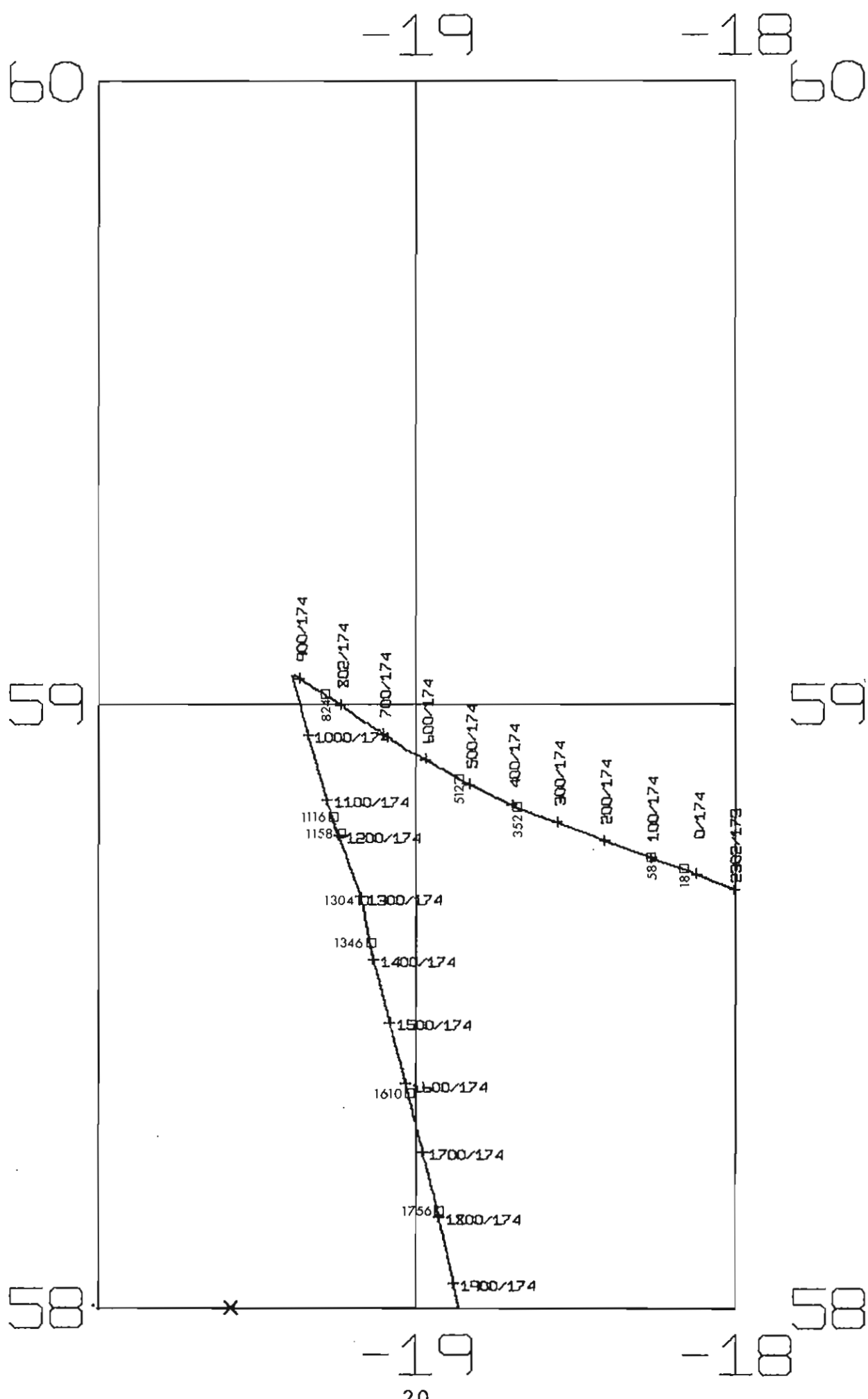
-16

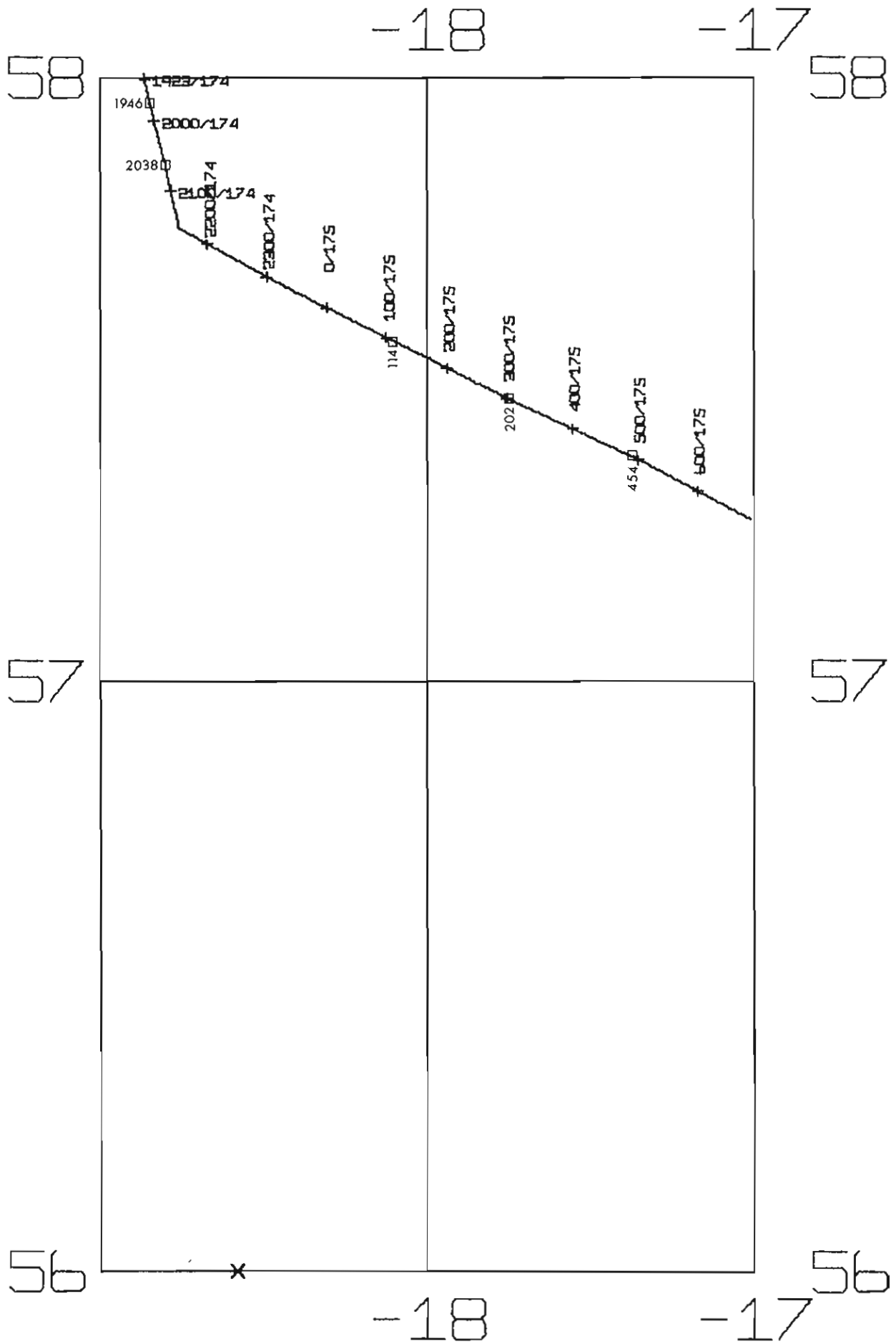
57

58

59







58

-18

-17

58

57

57

56

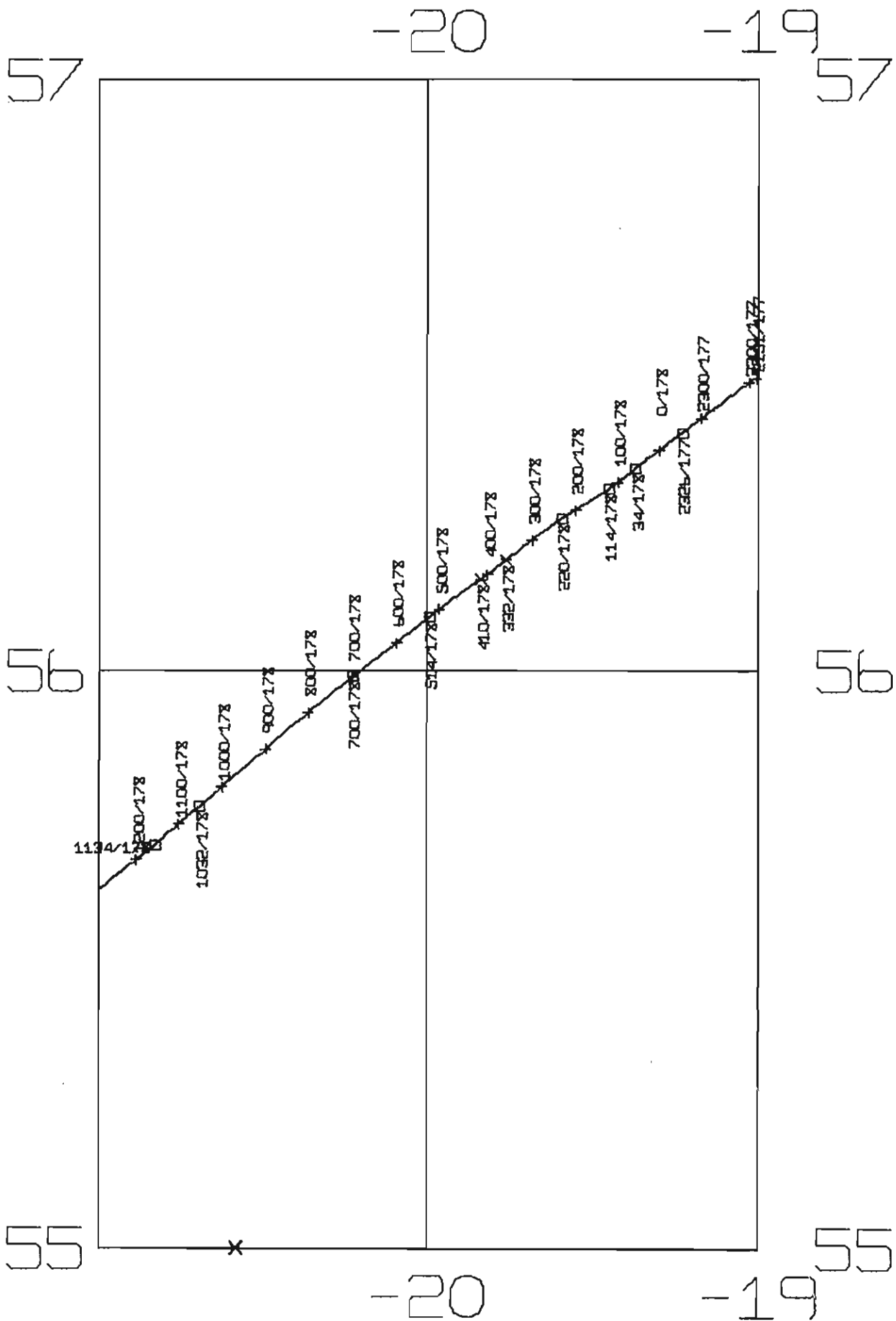
-18

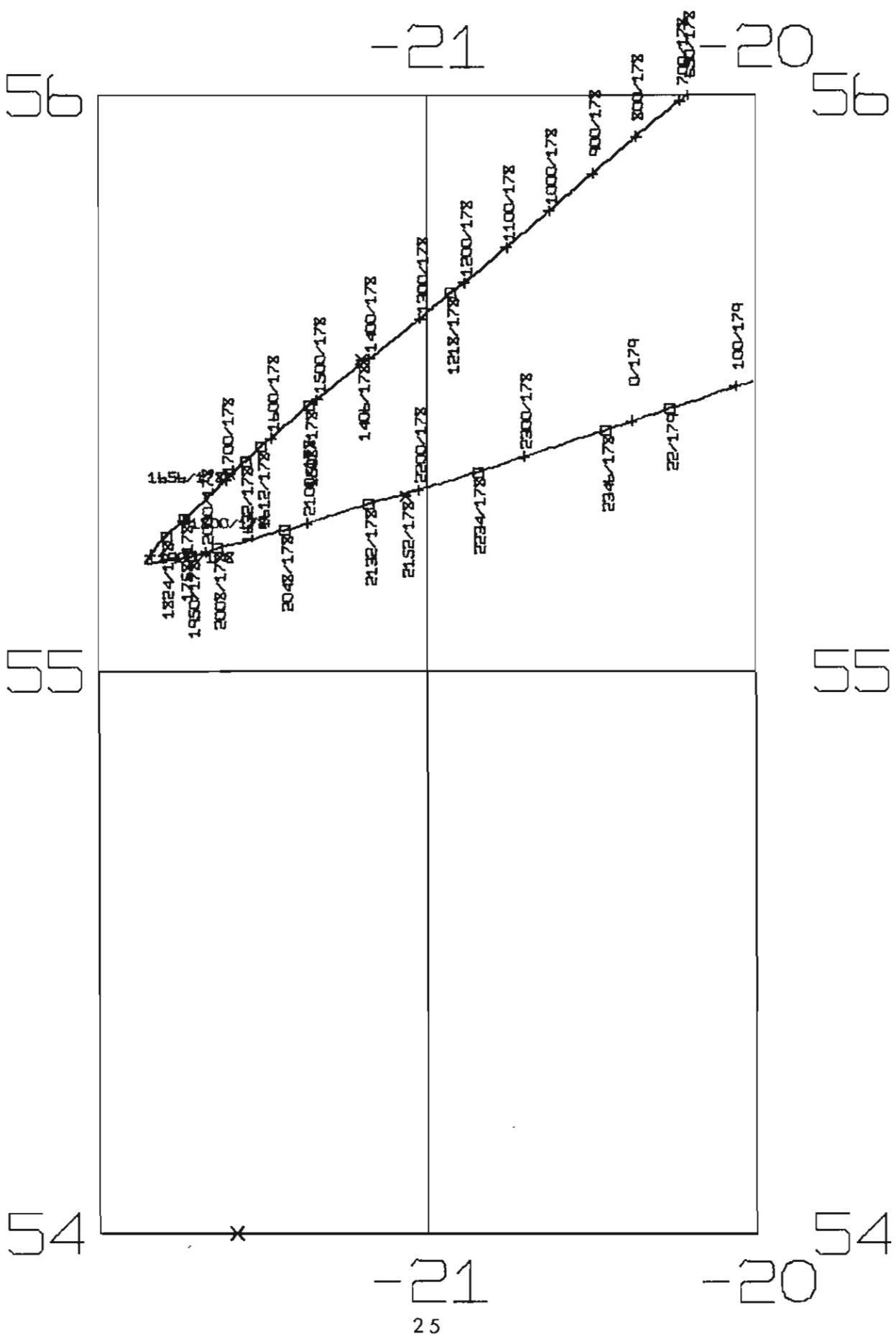
-17

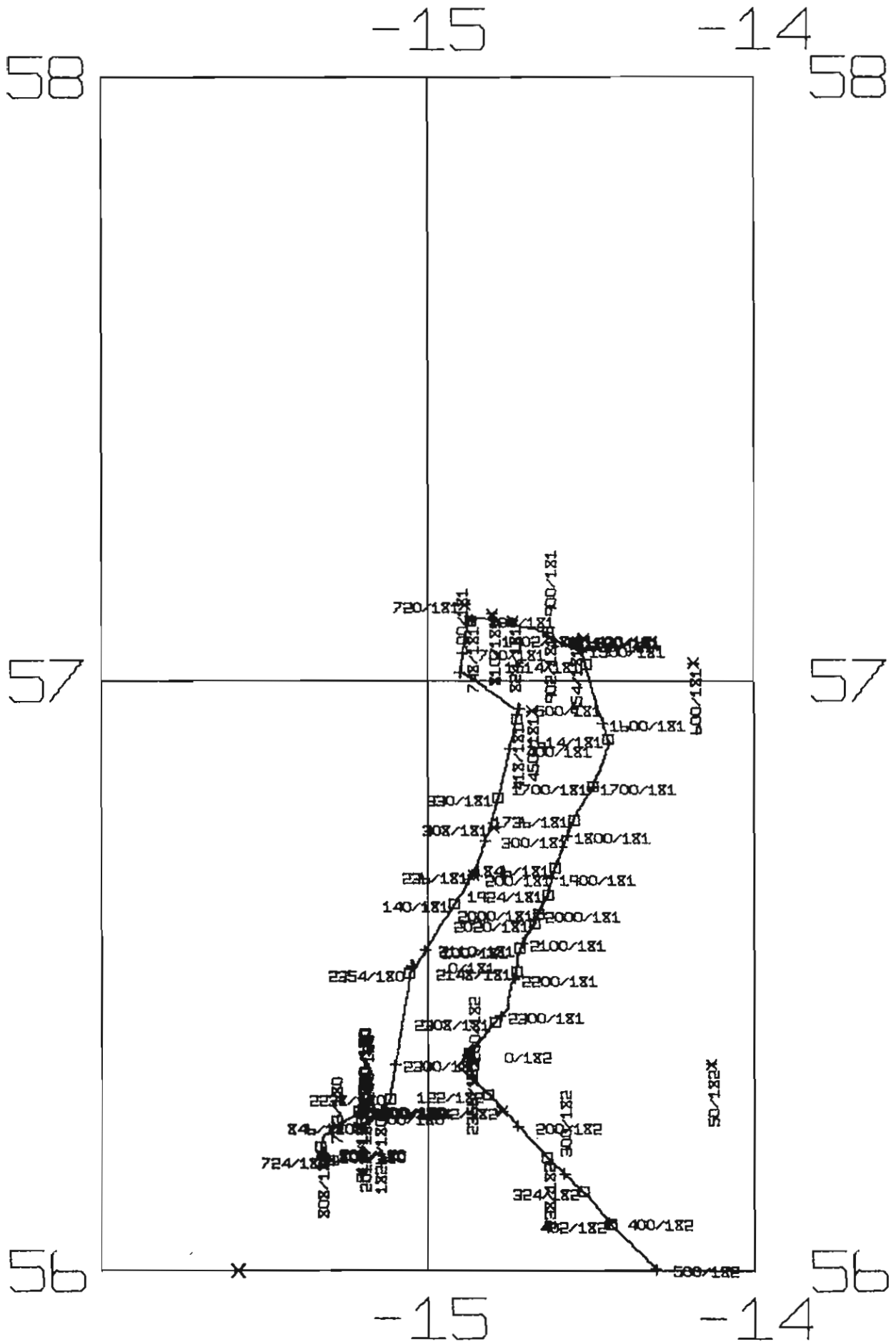
56

| | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| 2052/177 | 1952/177 | 1854/177 | 1718/177 | 1558/177 | 1410/177 | 1308/177 | 1224/177 | 1120/177 | 954/177 | 934/177 | 800/177 | 700/177 | 685/177 |
| 2100/177 | 2000/177 | 1900/177 | 1800/177 | 1700/177 | 1600/177 | 1500/177 | 1400/177 | 1300/177 | 1200/177 | 1100/177 | 1000/177 | 900/177 | 800/177 |

x







54

55

56

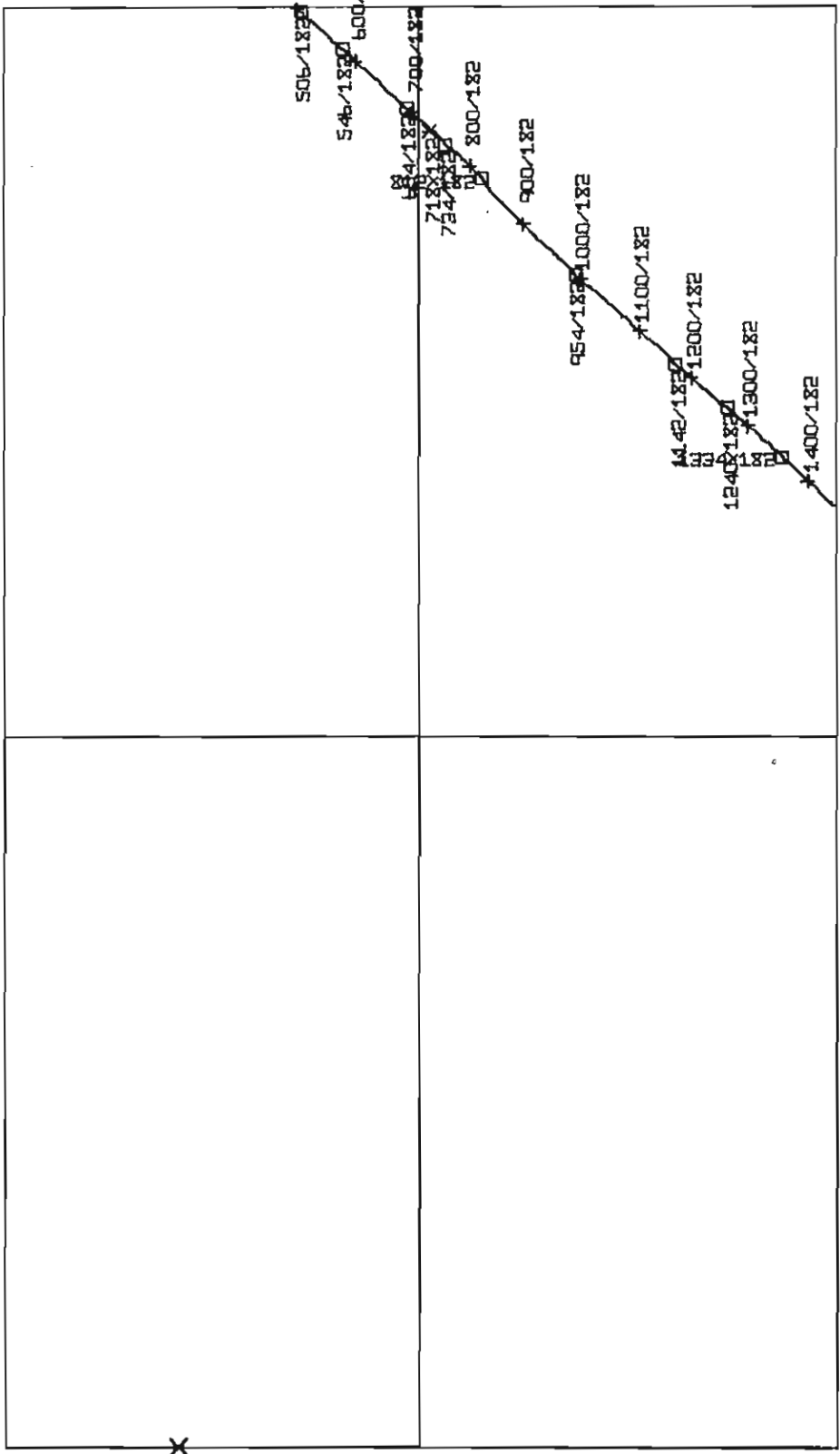
-14

30

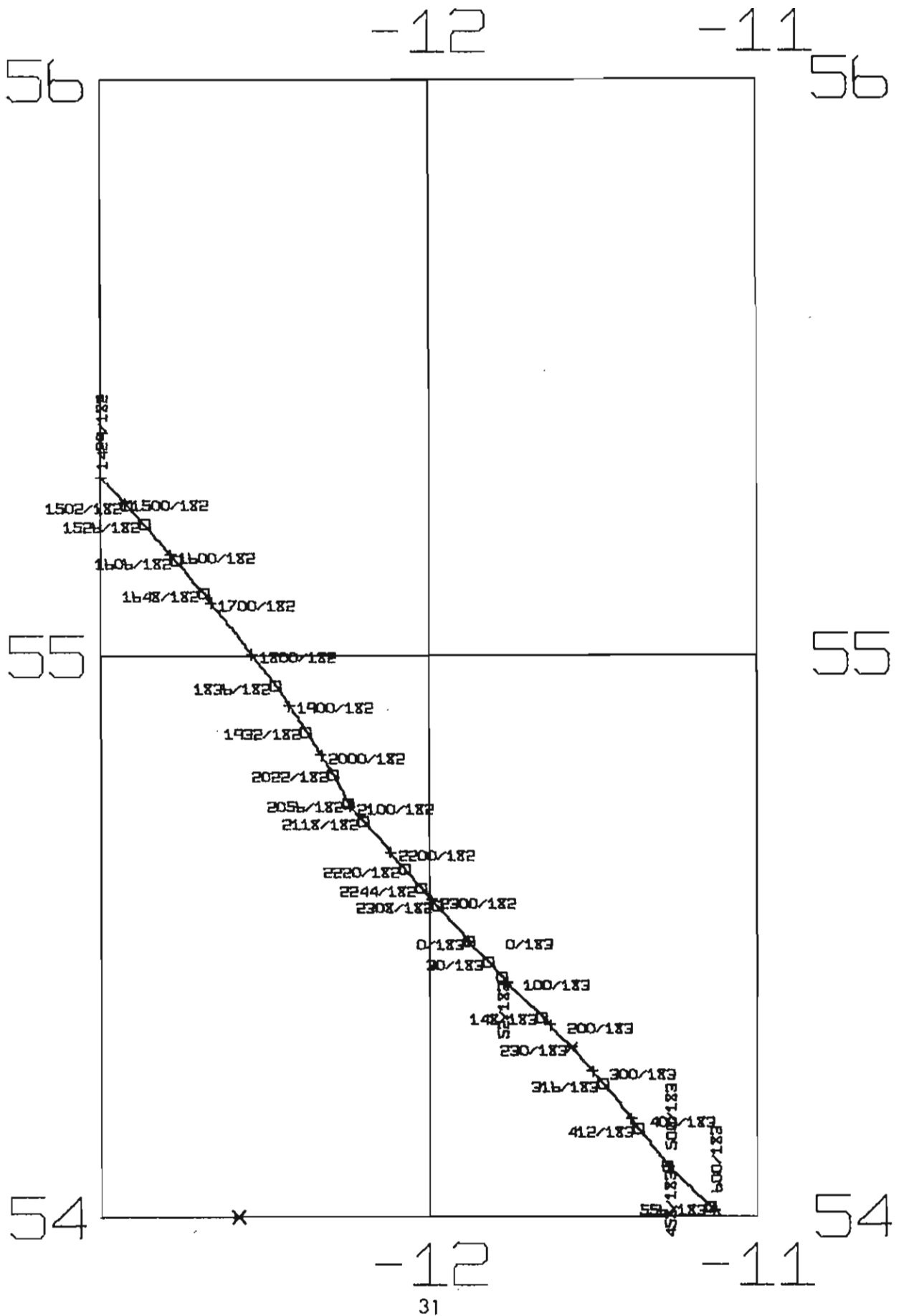
-13 54

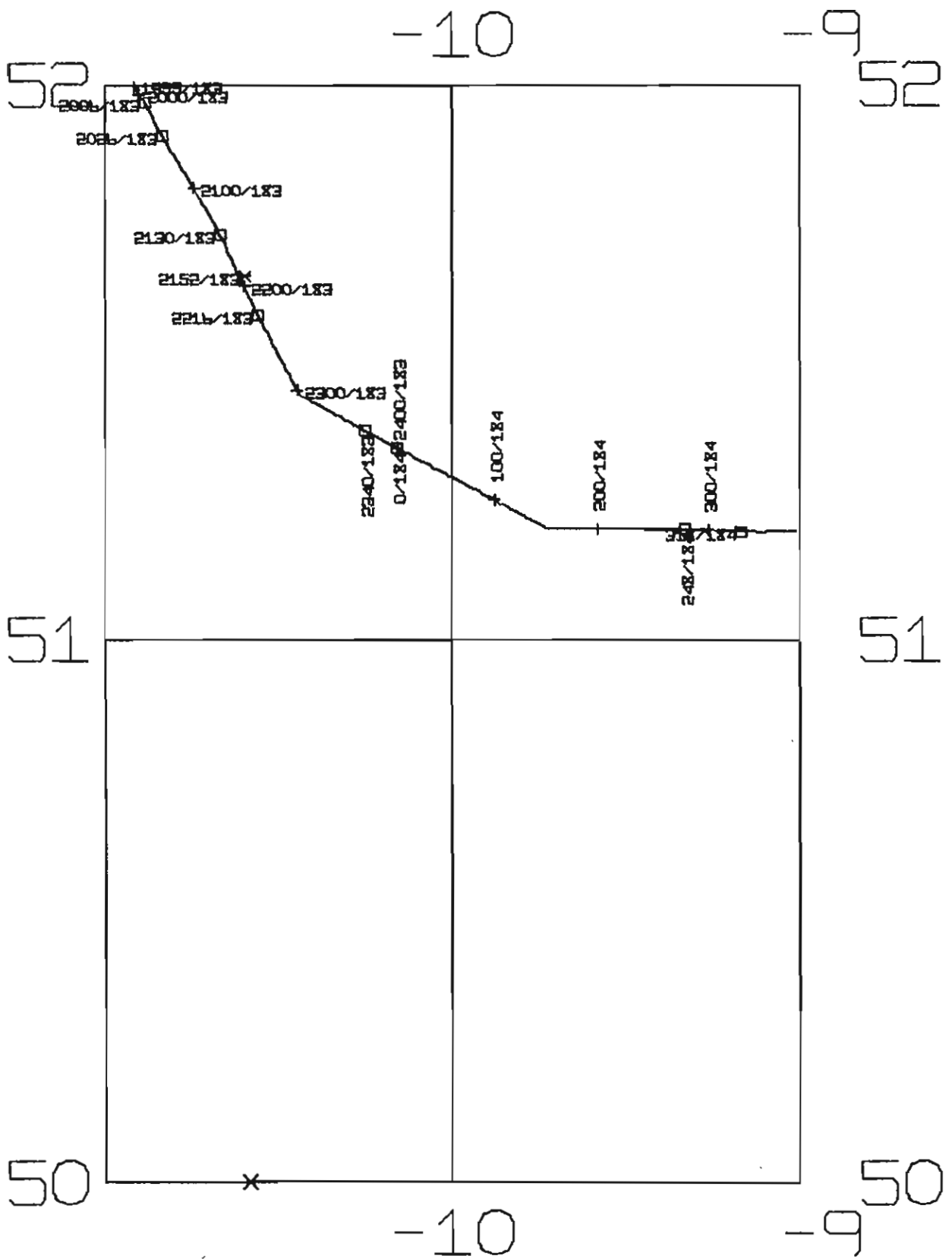
55

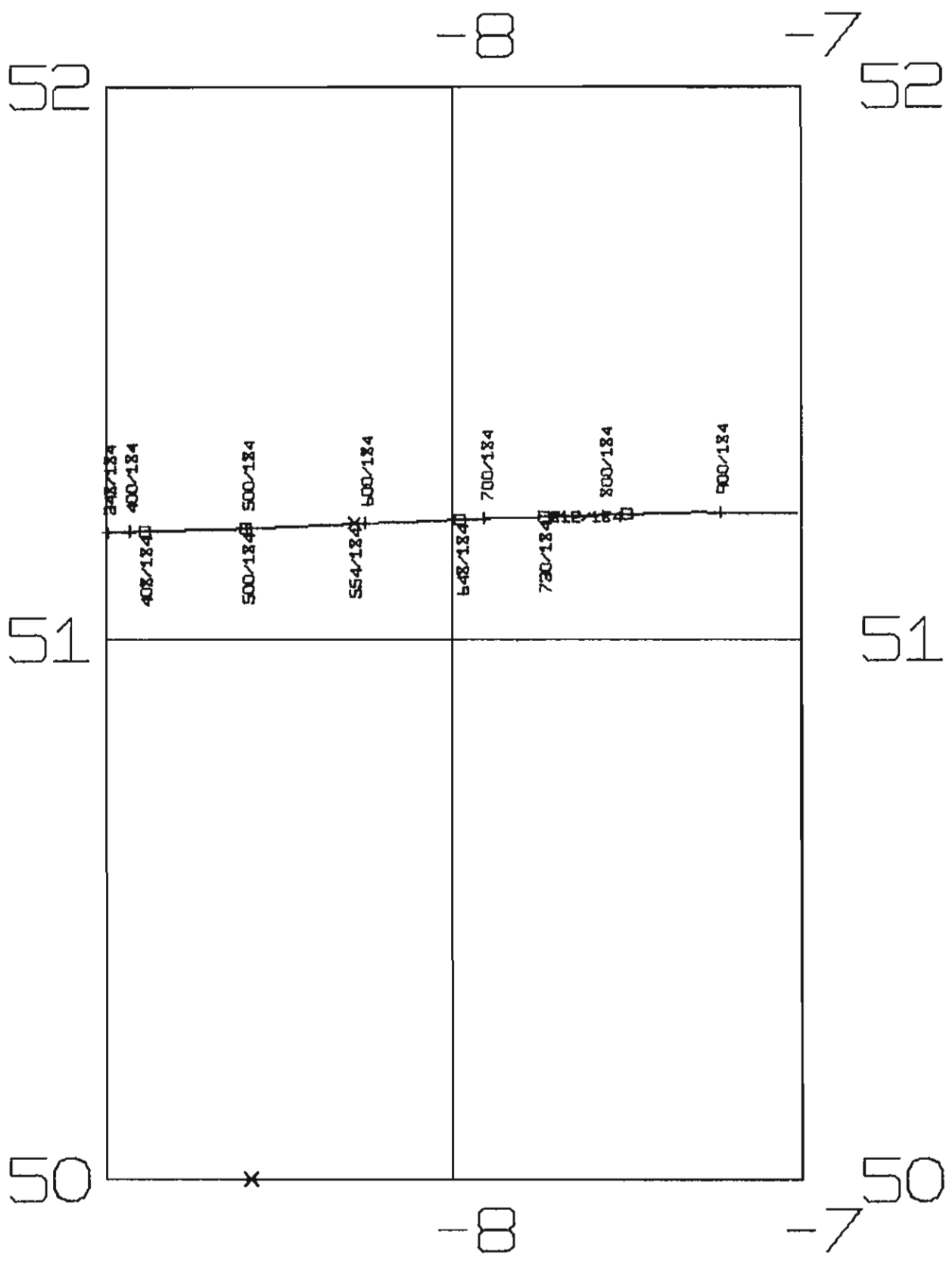
-13 56

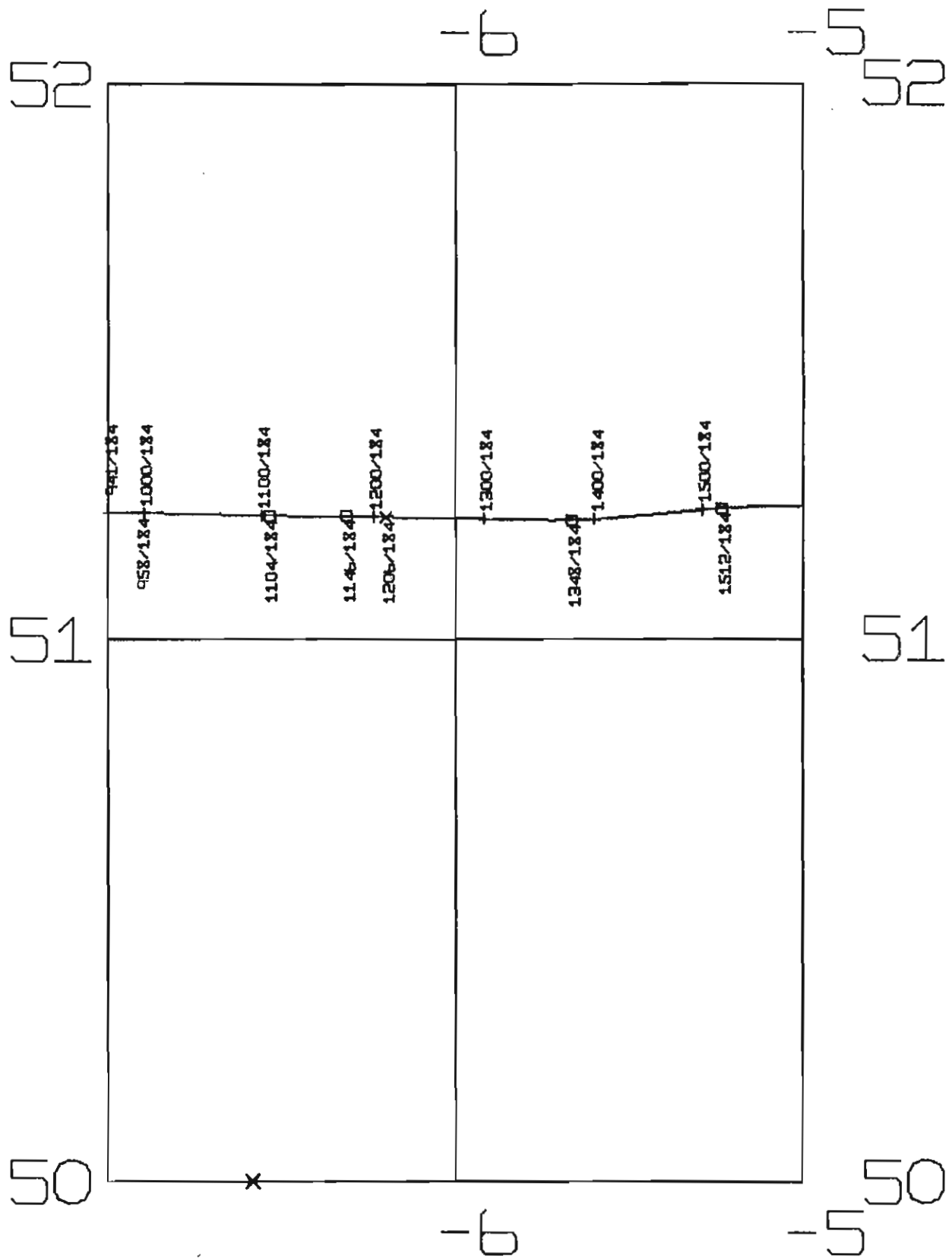


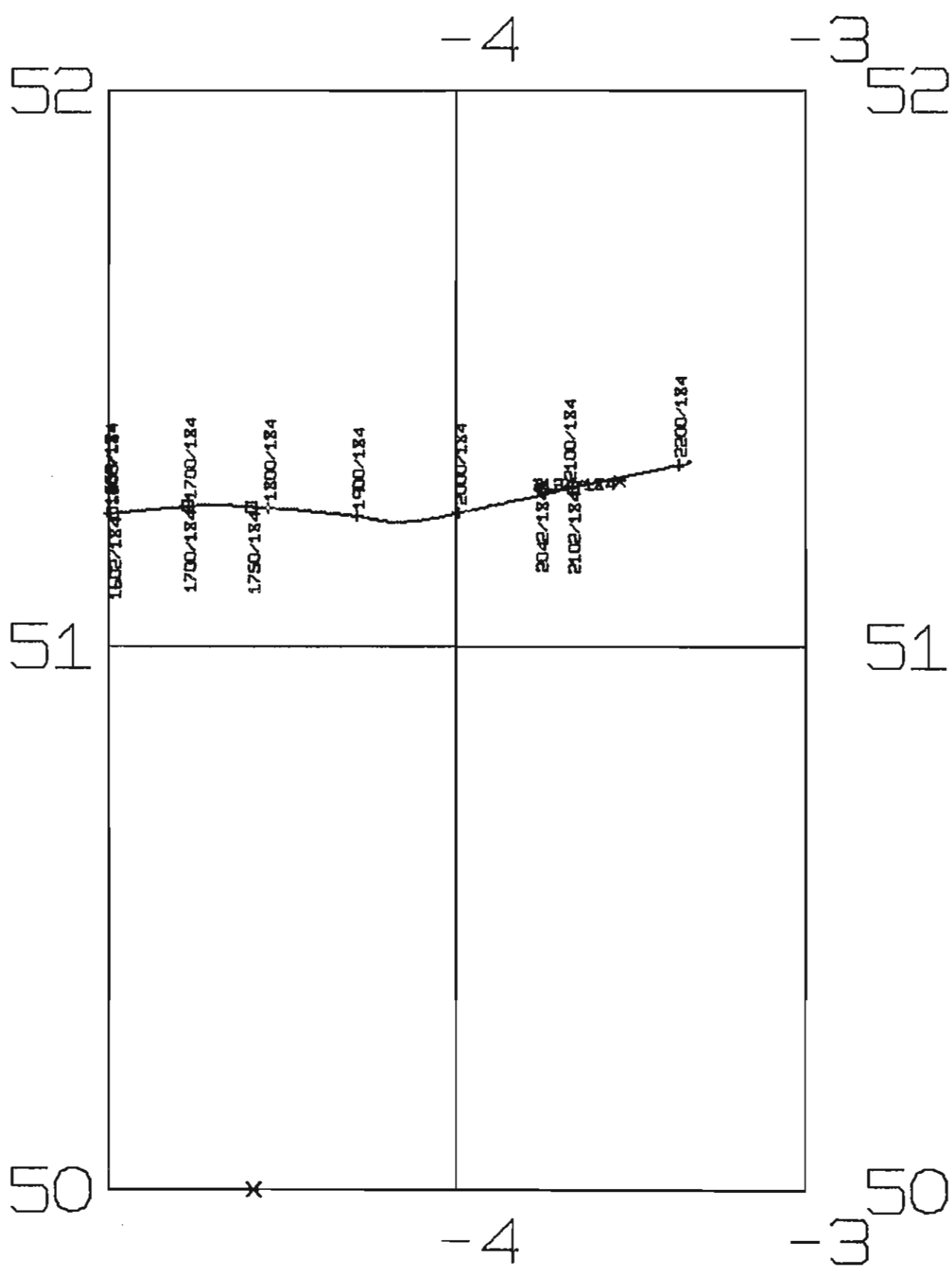
x











SECTION C

Tables of (a) Total Magnetic Field

(b) Uncorrected Depth in Fathoms (at 800 fms/sec)

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 10- 8-1972 (DAY NO 162)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | |
|-------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 00 | | | | | 47681 | 47679 | 47674 | 47670 | 47673 | 47670 | 47669 | 47668 | 47666 |
| 01 | 54107*01 | 32000 | 35524 | 47664 | 47666 | 47665 | 47668 | 47672 | 47670 | 47672 | 47673 | 47676 | 47676 |
| 02 | 47676 | 47678 | 47680 | 47684 | 47685 | 47687 | 47688 | 47692 | 47691 | 47692 | 47693 | 47694 | 47694 |
| 03 | 47694 | 47695 | 47696 | 47697 | 47698 | 47699 | 47700 | 47702 | 47704 | 47705 | 47706 | 47707 | 47707 |
| 04 | 47721 | 47722 | 47725 | 47728 | 47732 | 47733 | 47733 | 47737 | 47739 | 47741 | 47742 | 47743 | 47743 |
| 05 | 47767 | 47774 | 47772 | 47775 | 47777 | 47784 | 47788 | 47788 | 47788 | 47789 | 47790 | 47791 | 47791 |
| 06 | 47800 | 47799 | 47799 | 47797 | 47795 | 47792 | 47790 | 47788 | 47785 | 47786 | 47786 | 47786 | 47786 |
| 07 | 47787 | 47786 | 47787 | 47787 | 47787 | 47788 | 47788 | 47788 | 47788 | 47788 | 47788 | 47788 | 47788 |
| 08 | 47779 | 47779 | 47777 | 47775 | 47773 | 47770 | 47769 | 47766 | 47765 | 47764 | 47764 | 47764 | 47764 |
| 09 | 47763 | 47762 | 47761 | 47762 | 47762 | 47761 | 47763 | 47764 | 47763 | 47764 | 47764 | 47764 | 47764 |
| 10 | 47767 | 47767 | 47766 | 47767 | 47767 | 47766 | 47767 | 47767 | 47767 | 47767 | 47767 | 47767 | 47767 |
| 11 | 47775 | 47773 | 47774 | 47774 | 47772 | 47769 | 47769 | 47769 | 47768 | 47769 | 47769 | 47769 | 47769 |
| 12 | 47775 | 47775 | 47775 | 47775 | 47772 | 47770 | 47768 | 47768 | 47768 | 47768 | 47768 | 47768 | 47768 |
| 13 | 47809*18 | 47790 | 47792 | 47792 | 47792 | 47792 | 47792 | 47792 | 47792 | 47792 | 47792 | 47792 | 47792 |
| 14 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 | 47841 |
| 15 | 47809*06 | 47809*06 | 47855 | 47826 | 47841 | 47819 | 47857 | 47831 | 47845 | 47831 | 47870 | 47805 | 47805 |

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 11- 6-1972 (DAY NO 163)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----------|----------|----------|
| 00 | | | | | 47823 | 47824 | 47831 | 47851 | 47836 | 47841 | 47850 | 47848 | 47848 |
| 01 | 47825 | 47814 | 47819 | 47818 | 47823 | 47824 | 47831 | 47861 | 47904*38 | 47861 | 47870 | 47880*57 | 47880*57 |
| 02 | 47836 | 47854 | 47860 | 47857 | 47858 | 47862 | 47853 | 47862 | 47893 | 47863 | 47895 | 47887 | 47887 |
| 03 | 47816 | 47817 | 47808 | 47821 | 47828 | 47833 | 47806 | 47802 | 47892*39 | 47863 | 48023*51 | 47898 | 47898 |
| 04 | 47832 | 47817 | 47834 | 47846 | 47862 | 47843 | 47851 | 47868 | 47879 | 47941 | 48010 | 48038 | 48038 |
| 05 | 48028 | 47999 | 47995 | 47979 | 47952 | 47896 | 47901 | 47920 | 47928 | 47941 | 47968 | 47983 | 47983 |
| 06 | 47997 | 48004 | 48025 | 48050 | 48080 | 48086 | 48093 | 48109 | 48109 | 48079 | 48089 | 48101 | 48101 |
| 07 | 48112 | 48117 | 48118 | 48118 | 48119 | 48120 | 48120 | 48119 | 48117 | 48113 | 48108 | 48104 | 48104 |
| 08 | 48102 | 48099 | 48095 | 48092 | 48089 | 48085 | 48079 | 48070 | 48058 | 48042 | 48028 | 48012 | 48012 |
| 09 | 47997 | 47984 | 47972 | 47964 | 47949 | 47941 | 47931 | 47924 | 47917 | 47913 | 47911 | 47905 | 47905 |
| 10 | 47897 | 47892 | 47886 | 47883 | 47877 | 47873 | 47869 | 47866 | 47865 | 47865 | 47866 | 47868 | 47868 |
| 11 | 47871 | 47876 | 47882 | 47891 | 47900 | 47912 | 47923 | 47934 | 47943 | 47952 | 47958 | 47965 | 47965 |
| 12 | 47967 | 47967 | 47968 | 47964 | 47958 | 47952 | 47949 | 47948 | 47948 | 47951 | 47952 | 47954 | 47954 |
| 13 | 47954 | 47954 | 47954 | 47951 | 47947 | 47943 | 47940 | 47938 | 47937 | 47937 | 47936 | 47939 | 47939 |
| 14 | 47941 | 47946 | 47950 | 47956 | 47963 | 47969 | 47977 | 47983 | 47991 | 48000 | 48009 | 48018 | 48018 |
| 15 | 48021 | 48038 | 48050 | 48061 | 48072 | 48083 | 48092 | 48104 | 48111 | 48121 | 48130 | 48137 | 48137 |
| 16 | 48143 | 48148 | 48150 | 48153 | 48154 | 48156 | 48157 | 48159 | 48160 | 48161 | 48162 | 48164 | 48164 |
| 17 | 48166 | 48169 | 48172 | 48178 | 48184 | 48192 | 48200 | 48208 | 48219 | 48230 | 48242 | 48251 | 48251 |
| 18 | 48252 | 48250 | 48251 | 48252 | 48253 | 48257 | 48259 | 48265 | 48270 | 48275 | 48282 | 48290 | 48290 |
| 19 | 48287 | 48284 | 48286 | 48296 | 48311 | 48314 | 48309 | 48306 | 48316 | 48323 | 48329 | 48336 | 48336 |
| 20 | 48342 | 48348 | 48357 | 48364 | 48374 | 48386 | 48396 | 48406 | 48416 | 48425 | 48429 | 48434 | 48434 |
| 21 | 48440 | 48451 | 48458 | 48466 | 48472 | 48475 | 48474 | 48470 | 48470 | 48459 | 48454 | 48443 | 48443 |
| 22 | 48443 | 48450 | 48453 | 48442 | 48424 | 48438 | 48440 | 48424 | 48407 | 48385 | 48354 | 48326 | 48326 |
| 23 | 48309 | 48306 | 48341 | 48377 | 48374 | 48385 | 48371 | 48344 | 48341 | 48347 | 48347 | 48356 | 48356 |

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

DATE 12-5-1972 (DAY NO 164)

| HOURS | MINUTES | | | | | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|
| | 20 | 25 | 30 | 35 | 40 | | | | | | |
| 00 | 48372 | 48378 | 48370 | 48350 | 48360 | 48370 | 48376 | 48380 | 48382 | | |
| 01 | 48388 | 48400 | 48422 | 48544 | 48524 | 48518 | 48555 | 48576 | 48604 | | |
| 02 | 48600 | 48595 | 48609 | 48664 | 48692 | 48737 | 48751 | 48707 | 48702 | | |
| 03 | 48680 | 48655 | 48654 | 48531 | 48430 | 48431 | 48436 | 48445 | 48455 | | |
| 04 | 48464 | 48469 | 48465 | 48428 | 48439 | 48436 | 48436 | 48454 | 48461 | | |
| 05 | 48466 | 48471 | 48478 | 48482 | 48488 | 48480 | 48464 | 48468 | 48476 | | |
| 06 | 48485 | 48492 | 48495 | 48485 | 48487 | 48480 | 48475 | 48467 | 48457 | | |
| 07 | 48445 | 48430 | 48415 | 48352 | 48341 | 48332 | 48330 | 48329 | 48331 | | |
| 08 | 48332 | 48336 | 48338 | 48344 | 48341 | 48348 | 48351 | 48353 | 48356 | | |
| 09 | 48361 | 48364 | 48371 | 48387 | 48397 | 48404 | 48418 | 48416 | 48416 | | |
| 10 | 48406 | 48399 | 48391 | 48372 | 48365 | 48369 | 48341 | 48341 | 48340 | | |
| 11 | 48341 | 48343 | 48346 | 48372 | 48376 | 48377 | 48371 | 48361 | 48348 | | |
| 12 | 48330 | 48342 | 48357 | 48271 | 48273 | 48281 | 48292 | 48304 | 48317 | | |
| 13 | 48601 | 48579 | 48548 | 48475 | 48388 | 48368 | 48354 | 48345 | 48342 | | |
| 14 | 48343 | 48351 | 48365 | 48412 | 48468 | 48448 | 48506 | 48522 | 48541 | | |
| 15 | 48560 | 48582 | 48606 | 48690 | 48691 | 48688 | 48669 | 48646 | 48614 | | |
| 16 | 48578 | 48535 | 48489 | 48297 | 48266 | 48246 | 48233 | 48224 | 48220 | | |
| 17 | 48214 | 48213 | 48215 | 48268 | 48294 | 48323 | 48354 | 48389 | 48427 | | |
| 18 | 48463 | 48500 | 48533 | 48612 | 48673 | 48589 | 48574 | 48559 | 48542 | | |
| 19 | 48527 | 48514 | 48505 | 48482 | 48473 | 48460 | 48442 | 48419 | 48395 | | |
| 20 | 48370 | 48348 | 48329 | 48297 | 48315 | 48315 | 48332 | 48354 | 48378 | | |
| 21 | 48403 | 48430 | 48459 | 48523 | 48553 | 48611 | 48608 | 48611 | 48615 | | |
| 22 | 48617 | 48620 | 48624 | 48644 | 48667 | 48751 | 48769 | 48775 | 48773 | | |

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

DATE 13-6-1972 (DAY NO 165)

| HOURS | MINUTES | | | | | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|
| | 20 | 25 | 30 | 35 | 40 | | | | | | |
| 00 | 48768 | 48761 | 48758 | 48748 | 48739 | 48727 | 48710 | 48690 | 48667 | | |
| 01 | 48643 | 48620 | 48601 | 48552 | 48553 | 48557 | 48571 | 48588 | 48610 | | |
| 02 | 48635 | 48630 | 48683 | 48768 | 48787 | 48808 | 48830 | 48853 | 48879 | | |
| 03 | 48897 | 48910 | 48916 | 48908 | 48893 | 48875 | 48856 | 48837 | 48819 | | |
| 04 | 48803 | 48788 | 48774 | 48712 | 48698 | 48685 | 48678 | 48666 | 48660 | | |
| 05 | 48657 | 48657 | 48657 | 48666 | 48668 | 48672 | 48675 | 48685 | 48693 | | |
| 06 | 48700 | 48709 | 48716 | 48735 | 48739 | 48743 | 48742 | 48743 | 48740 | | |
| 07 | 48734 | 48726 | 48712 | 48647 | 48625 | 48627 | 48621 | 48619 | 48619 | | |
| 08 | 48621 | 48624 | 48629 | 48666 | 48677 | 48686 | 48696 | 48703 | 48709 | | |
| 09 | 48713 | 48715 | 48684 | 48699 | 48697 | 48695 | 48693 | 48691 | 48689 | | |
| 10 | 48687 | 48685 | 48684 | 48681 | 48682 | 48685 | 48689 | 48692 | 48697 | | |
| 11 | 48701 | 48706 | 48709 | 48694 | 48684 | 48675 | 48667 | 48661 | 48658 | | |
| 12 | 48658 | 48660 | 48665 | 48708 | 48715 | 48726 | 48734 | 48740 | 48746 | | |
| 13 | 48750 | 48753 | 48753 | 48748 | 48747 | 48749 | 48751 | 48755 | 48760 | | |
| 14 | 48767 | 48774 | 48782 | 48805 | 48812 | 48821 | 48830 | 48839 | 48851 | | |
| 15 | 48863 | 48877 | 48893 | 48961 | 48977 | 48992 | 49004 | 49018 | 49029 | | |
| 16 | 49039 | 49046 | 49045 | 49031 | 49020 | 48997 | 48960 | 48941 | 48921 | | |
| 17 | 48875 | 48868 | 48875 | 48850 | 48860 | 48843 | 48842 | 48842 | 48844 | | |
| 18 | 48846 | 48851 | 48848 | 48858 | 48857 | 48846 | 48847 | 48851 | 48857 | | |
| 19 | 48867 | 48876 | 48885 | 48910 | 48913 | 48917 | 48919 | 48926 | 48933 | | |
| 20 | 48940 | 48946 | 48957 | 49027 | 49048 | 49067 | 49084 | 49094 | 49099 | | |
| 21 | 49099 | 49094 | 49089 | 49055 | 49049 | 49046 | 49044 | 49042 | 49042 | | |
| 22 | 49038 | 49036 | 49032 | 49017 | 49014 | 49012 | 49010 | 49008 | 49005 | | |
| 23 | 49001 | 48999 | 48999 | 49007 | 49013 | 49017 | 49021 | 49026 | 49032 | | |

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 14- 6-1972 (DAY NO 166)

| HOURS | MINUTES | | | | | | DATE 14- 6-1972 (DAY NO 166) |
|-------|---------|-------|-------|-------|-------|-------|------------------------------|
| | 00 | 05 | 10 | 15 | 20 | 25 | |
| 00 | 49039 | 49048 | 49055 | 49060 | 49063 | 49066 | 49074 |
| 01 | 49082 | 49083 | 49084 | 49086 | 49085 | 49085 | 49077 |
| 02 | 49066 | 49066 | 49065 | 49065 | 49067 | 49069 | 49076 |
| 03 | 49091 | 49091 | 49097 | 49100 | 49106 | 49113 | 49122 |
| 04 | 49159 | 49171 | 49182 | 49194 | 49208 | 49220 | 49232 |
| 05 | 49201 | 49189 | 49180 | 49170 | 49162 | 49156 | 49140 |
| 06 | 49113 | 49106 | 49101 | 49095 | 49092 | 49088 | 49082 |
| 07 | 49089 | 49091 | 49091 | 49092 | 49093 | 49094 | 49103 |
| 08 | 49117 | 49119 | 49118 | 49117 | 49115 | 49110 | 49097 |
| 09 | 49087 | 49094 | 49106 | 49124 | 49145 | 49169 | 49255 |
| 10 | 49334 | 49332 | 49324 | 49304 | 49280 | 49259 | 49255 |
| 11 | 49115 | 49123 | 49141 | 49174 | 49223 | 49238 | 49271 |
| 12 | 49884 | 49945 | 49991 | 50005 | 49986 | 49941 | 49730 |
| 13 | 49392 | 49312 | 49243 | 49182 | 49129 | 49085 | 48996 |
| 14 | 48995 | 49016 | 49037 | 49055 | 49065 | 49066 | 48996 |
| 15 | 49014 | 49016 | 49020 | 49023 | 49026 | 49032 | 49034 |
| 16 | 48967 | 48949 | 48928 | 48908 | 48894 | 48885 | 48918 |
| 17 | 48954 | 48962 | 48974 | 48987 | 49001 | 49017 | 48937 |
| 18 | 49034 | 49020 | 49004 | 48985 | 48965 | 48955 | 48937 |
| 19 | 48959 | 48968 | 48971 | 48971 | 48978 | 48993 | 49063 |
| 20 | 49150 | 49166 | 49182 | 49191 | 49198 | 49202 | 49194 |
| 21 | 49143 | 49131 | 49123 | 49119 | 49114 | 49109 | 49103 |
| 22 | 49152 | 49174 | 49202 | 49232 | 49258 | 49280 | 49306 |
| 23 | 49356 | 49390 | 49439 | 49500 | 49569 | 49645 | 49956 |

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 15- 6-1972 (DAY NO 167)

| HOURS | MINUTES | | | | | | DATE 15- 6-1972 (DAY NO 167) |
|-------|---------|----------|----------|----------|-------|-------|------------------------------|
| | 00 | 05 | 10 | 15 | 20 | 25 | |
| 00 | 50573 | 50576 | 50509 | 50382 | 50260 | 50139 | 49958 |
| 01 | 49872 | 49957 | 50036 | 50106 | 50158 | 50190 | 50254 |
| 02 | 49979 | 49871 | 49771 | 49673 | 49579 | 49492 | 49309 |
| 03 | 49183 | 49178 | 49186 | 49187 | 49182 | 49176 | 49162 |
| 04 | 49186 | 49207 | 49237 | 49298 | 49398 | 49532 | 49748 |
| 05 | 49896 | 49903 | 49897 | 49880 | 49855 | 49823 | 49714 |
| 06 | 49635 | 49610 | 49585 | 49565 | 49550 | 49536 | 49484 |
| 07 | 49387 | 49347 | 49300 | 49245 | 49190 | 49139 | 49041 |
| 08 | 49050 | 49061 | 49068 | 49080 | 49096 | 49119 | 49205 |
| 09 | 49320 | 49365 | 49412 | 49449 | 49473 | 49497 | 49544 |
| 10 | 49498 | 49478 | 49452 | 49442 | 49475 | 49547 | 49711 |
| 11 | 49853 | 49885 | 49890 | 49918 | 49958 | 49962 | 49827 |
| 12 | 49771 | 49784 | 49805 | 49814 | 49769 | 49702 | 49947 |
| 13 | 50372 | 50533 | 50716*12 | 50705 | 50621 | 50535 | 50112 |
| 14 | 49631 | 49643 | 49622 | 49573 | 49520 | 49470 | 49347 |
| 15 | 49360 | 49374 | 49371 | 49388 | 49452 | 49523 | 49516 |
| 16 | 49296 | 49275 | 49259 | 49263 | 49291 | 49358 | 49440 |
| 17 | 49704 | 49529 | 49477 | 49494 | 49539 | 49592 | 49616 |
| 18 | 49432 | 49449 | 49519 | 49548 | 49562 | 49604 | 49543 |
| 19 | 49313 | 49274*04 | 49386 | 49460 | 49562 | 49780 | 49460 |
| 20 | 49345 | 49399 | 49302 | 49204 | 49236 | 49280 | 49639 |
| 21 | 49122 | 49104*04 | 49181 | 49220 | 49254 | 49269 | 49209 |
| 22 | 49458 | 49458 | 49455 | 49379 | 49309 | 49230 | 49325 |
| 23 | 50184 | 50347*03 | 49924 | 49755*13 | 49976 | 50154 | 49170 |

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 16- 6-1972 (DAY NO 168) | | | | | | | | | | | |
|-------|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 49667 | 49729 | 49621*12 | 49650*16 | 49570 | 49522 | 49383 | 49342*33 | 49266 | 49156 | 49279*51 | 49251 |
| 01 | 49266 | 49279 | 49339 | 49339 | 49274 | 49317 | 49298 | 49296*37 | 49319 | 49432 | 49517*49 | 49408 |
| 02 | 49408 | 49385 | 49378*16 | 49877*16 | 49453 | 49460 | 49502 | 49558 | 49574 | 49536 | 49554 | 49626 |
| 03 | 49612 | 49548*07 | 49587 | 49877*13 | 49670 | 49889 | 49822*29 | 50164*33 | 49546 | 49462*43 | 49913 | 50144*57 |
| 04 | 50135*01 | 49875 | 49741*09 | 49987*13 | 49759 | 49736*27 | 49440*32 | 49603 | 49866*42 | 49785 | 49874*52 | 49679*56 |
| 05 | 49812*00 | 49509 | 49779*08 | 49497*16 | 49807 | 49678*26 | 49692 | 49728 | 49982 | 49775 | 49879 | 49923 |
| 06 | 49908 | 49863 | 49923*12 | 49894 | 49807 | 49712 | 49682*28 | 49728 | 49740 | 49785 | 49872 | 49923 |
| 07 | 50180*02 | 50003 | 49751 | 49768*14 | 49366*18 | 50097*24 | 49856*32 | 49813*36 | 49763 | 49679 | 50027*43 | 49679 |
| 08 | 49515 | 49812 | 49966*12 | 49929 | 49458*22 | 49624 | 50151 | 49838*35 | 49688 | 49540*45 | 49504*52 | 49541 |
| 09 | 50018*02 | 49496*06 | 49671 | 49439*16 | 49514 | 49592*26 | 49447 | 49557 | 49724 | 49763*46 | 49516*52 | 49472 |
| 10 | 49505 | 49570 | 49681 | 49834*16 | 49746 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 11 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 12 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 13 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 14 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 15 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 16 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 17 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 18 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 19 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 20 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 21 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 22 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 | 32000 |
| 23 | 49359*58 | 49562 | 49643 | 50069*16 | 49664 | 49653 | 49666 | 49647 | 49652 | 49669 | 49661*52 | 49584 |
| | 49779 | 49781 | 49781 | 49804 | 49815 | 49827 | 49850 | 49857 | 49864 | 49870 | 49877 | 49791 |

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 17- 6-1972 (DAY NO 169) | | | | | | | | | | | |
|-------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 49498 | 49398 | 49602 | 49842 | 49893 | 49894 | 49883 | 49861 | 49824 | 49781 | 49738 | 49701 |
| 01 | 49658 | 49623 | 49598 | 49590 | 49496 | 49484 | 49593 | 49585 | 49579 | 49573 | 49564 | 49553 |
| 02 | 49541 | 49530 | 49520 | 49508 | 49413 | 49404 | 49476 | 49472 | 49467 | 49460 | 49454 | 49449 |
| 03 | 49441 | 49436 | 49427 | 49419 | 49413 | 49414 | 49396 | 49391 | 49389 | 49387 | 49389 | 49393 |
| 04 | 49397 | 49403 | 49407 | 49412 | 49416 | 49417 | 49410 | 49413 | 49410 | 49405 | 49402 | 49398 |
| 05 | 49392 | 49389 | 49385 | 49383 | 49380 | 49379 | 49380 | 49378 | 49379 | 49381 | 49379 | 49381 |
| 06 | 49380 | 49389 | 49385 | 49379 | 49381 | 49382 | 49383 | 49380 | 49382 | 49380 | 49383 | 49385 |
| 07 | 49383 | 49379 | 49372 | 49364 | 49360 | 49352 | 49345 | 49338 | 49330 | 49322 | 49316 | 49309 |
| 08 | 49304 | 49302 | 49298 | 49298 | 49298 | 49294 | 49296 | 49292 | 49292 | 49291 | 49291 | 49292 |
| 09 | 49291 | 49294 | 49294 | 49297 | 49288 | 49285 | 49284 | 49284 | 49290 | 49291 | 49289 | 49291 |
| 10 | 49291 | 49292 | 49292 | 49297 | 49303 | 49308 | 49307 | 49308 | 49310 | 49308 | 49309 | 49311 |
| 11 | 49310 | 49304 | 49302 | 49302 | 49302 | 49302 | 49293 | 49292 | 49295 | 49290 | 49285 | 49286 |
| 12 | 49283 | 49286 | 49284 | 49292 | 49296 | 49308 | 49308 | 49312 | 49313 | 49317 | 49322 | 49315 |
| 13 | 49319 | 49329 | 49324 | 49335 | 49339 | 49348 | 49344 | 49338 | 49333 | 49348 | 49332 | 49334 |
| 14 | 49334 | 49336 | 49336 | 49335 | 49333 | 49337 | 49338 | 49338 | 49336 | 49338 | 49340 | 49337 |
| 15 | 49337 | 49332 | 49333 | 49335 | 49333 | 49337 | 49338 | 49349 | 49373 | 49383 | 49370 | 49385 |
| 16 | 49378 | 49371 | 49365 | 49366 | 49372 | 49381 | 49373 | 49374 | 49372 | 49368 | 49394 | 49385 |
| 17 | 49433 | 49440 | 49452 | 49466 | 49477 | 49478 | 49479 | 49474 | 49461 | 49478 | 49478 | 49485 |
| 18 | 49518 | 49509 | 49518 | 49518 | 49513 | 49512 | 49509 | 49505 | 49504 | 49502 | 49502 | 49502 |
| 19 | 49509 | 49512 | 49518 | 49523 | 49523 | 49525 | 49519 | 49523 | 49519 | 49523 | 49524 | 49529 |
| 20 | 49539 | 49540 | 49544 | 49552 | 49562 | 49564 | 49570 | 49581 | 49573 | 49582 | 49589 | 49604 |
| 21 | 49612 | 49636 | 49652 | 49644 | 49644 | 49653 | 49622 | 49614 | 49616 | 49671 | 49671 | 49654 |
| 22 | 49634 | 49616 | 49602 | 49587 | 49591 | 49571 | 49551 | 49516 | 49451 | 49365 | 49217 | 49089 |
| 23 | 49121 | 49298 | 49335 | 49372 | 49451 | 49397 | 49246 | 49288 | 49348 | 49405 | 49258 | 49084 |

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 18- 6-1972 (DAY NO 170) | | | | | | | | | | | |
|-------|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------|-------|-------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 49080 | 49198 | 49312 | 49412 | 49759*21 | 49582 | 49346 | 49233 | 49351 | 49353 | 49251 | 49113 |
| 01 | 49228 | 49159 | 49343 | 49461 | 49517 | 49646*24 | 49524*28 | 49423 | 49373 | 49458 | 49707 | 49762 |
| 02 | 49860 | 49985 | 49891 | 49747 | 49840*22 | 49804 | 49730*28 | 49666 | 49400*42 | 49435 | 49292 | 49139 |
| 03 | 49044 | 49161 | 49173 | 49085 | 49091*22 | 49186 | 49283 | 49295 | 49312*38 | 49251 | 49248 | 49349 |
| 04 | 49316 | 49275 | 49333 | 49311 | 49275 | 49341*27 | 49360 | 49333*37 | 49314 | 49356 | 49408 | 49392 |
| 05 | 49365 | 49385*07 | 49358 | 49329*13 | 49321*21 | 49439*27 | 49377 | 49410 | 49405 | 49511 | 49515 | 49474 |
| 06 | 49455 | 49444 | 49409 | 49389*14 | 49425 | 49479 | 49464 | 49458 | 49468 | 49442 | 49487 | 49494 |
| 07 | 49481 | 49462 | 49473*08 | 49441 | 49439 | 49446 | 49437 | 49458 | 49468 | 49433 | 49470 | 49440 |
| 08 | 49514 | 49485 | 49471 | 49453 | 49434 | 49430 | 49435 | 49430 | 49430 | 49451 | 49485 | 49515 |
| 09 | 49507 | 49482 | 49507 | 49498 | 49493 | 49488 | 49498 | 49499 | 49464 | 49468 | 49480 | 49480 |
| 10 | 49470 | 49468 | 49442 | 49423 | 49425 | 49422 | 49425 | 49483 | 49315*52 | 49502 | 49456 | 49456 |
| 11 | 49747 | 49943 | 50026 | 50026 | 49909 | 49804 | 49761 | 49720*34 | 49854 | 49922 | 49972 | 49841 |
| 12 | 49707 | 49622 | 49647 | 49791 | 49892 | 49849 | 49786 | 49766 | 49739 | 49749 | 49765 | 49761 |
| 13 | 49776 | 49783 | 49774 | 49786 | 49780 | 49776 | 49786 | 49756 | 49759 | 49737 | 49759 | 49806 |
| 14 | 49832 | 49821 | 49825 | 49801 | 49793 | 49789 | 49795 | 49824 | 49847 | 49875 | 49908 | 49943 |
| 15 | 49956 | 49952 | 49949 | 49934 | 49929 | 49936 | 49942 | 49961 | 50072 | 50043 | 49999 | 49953 |
| 16 | 49948 | 49986 | 50201*12 | 50175 | 50192 | 50066 | 50016 | 50061 | 50015 | 50036 | 50059 | 50077 |
| 17 | 50096 | 50108 | 50103 | 50090 | 50053 | 50037 | 50050 | 50033 | 50015 | 49973 | 49877 | 49877 |
| 18 | 50841 | 49802 | 49772 | 49750 | 49736 | 49716 | 49713 | 49702 | 49705 | 49716 | 49725 | 49741 |
| 19 | 49745 | 49746 | 49733 | 49690 | 49700 | 49675 | 49671 | 49673 | 49674 | 49705 | 49743 | 49777 |
| 20 | 49809 | 49824 | 49844 | 49864 | 49862 | 49873 | 49868 | 49851 | 49835 | 49835 | 49822 | 49809 |
| 21 | 49799 | 49799 | 49795 | 49797 | 49795 | 49792 | 49791 | 49797 | 49806 | 49812 | 49814 | 49819 |
| 22 | 49823 | 49825 | 49828 | 49833 | 49838 | 49844 | 49846 | 49849 | 49852 | 49847 | 49857 | 49861 |
| 23 | 49858 | 49860 | 49864 | 49873 | 49884 | 49889 | 49896 | 49898 | 49896 | 49887 | 49878 | 49875 |

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 19- 6-1972 (DAY NO 171) | | | | | | | | | | | |
|-------|------------------------------|-------|----------|----------|-------|-------|----------|----------|----------|-------|----------|----------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 49861 | 49849 | 49852 | 49842 | 49818 | 49811 | 49799 | 49781 | 49778 | 49783 | 49766 | 49781 |
| 01 | 49785 | 49795 | 49799 | 49804 | 49819 | 49872 | 49908 | 49887 | 49831 | 49741 | 49603 | 49522 |
| 02 | 49495 | 49416 | 49382 | 49379 | 49337 | 49310 | 49302 | 49317*33 | 49221 | 49047 | 48991 | 48974*57 |
| 03 | 48991*59 | 49118 | 49105*09 | 49295 | 49454 | 49473 | 49673 | 50053 | 49409*42 | 49767 | 50135*49 | 49651*55 |
| 04 | 49766 | 49835 | 49801 | 49127*13 | 49194 | 49211 | 49305*31 | 49904 | 49284 | 49466 | 49702 | 49775 |
| 05 | 49758 | 49763 | 49830 | 49830 | 49854 | 49860 | 49867 | 49904 | 50039 | 50135 | 50152 | 50144 |
| 06 | 50136 | 50131 | 50126 | 50124 | 50121 | 50117 | 50094 | 50075 | 50029 | 50019 | 50000 | 49993 |
| 07 | 50009 | 50007 | 50018 | 50011 | 50009 | 49994 | 49980 | 49977 | 49972 | 49966 | 50000 | 49968 |
| 08 | 49983 | 49992 | 50001 | 50010 | 50014 | 50021 | 50023 | 50025 | 50036 | 50037 | 50027 | 50026 |
| 09 | 50025 | 50026 | 50022 | 50022 | 50023 | 50021 | 50023 | 50029 | 50034 | 50037 | 50041 | 50041 |
| 10 | 50045 | 50046 | 50052 | 50056 | 50063 | 50069 | 50075 | 50080 | 50083 | 50092 | 50093 | 50103 |
| 11 | 50112 | 50121 | 50131 | 50145 | 50155 | 50165 | 50168 | 50167 | 50168 | 50164 | 50162 | 50166 |
| 12 | 50169 | 50168 | 50174 | 50175 | 50175 | 50171 | 50167 | 49955 | 50152 | 50140 | 50126 | 50114 |
| 13 | 50098 | 50076 | 50053 | 50032 | 50013 | 49994 | 49976 | 49958 | 49934 | 49915 | 49892 | 49863 |
| 14 | 49838 | 49822 | 49808 | 49803 | 49797 | 49801 | 49826 | 49858 | 49899 | 49941 | 49978 | 50014 |
| 15 | 50047 | 50065 | 50078 | 50102 | 50130 | 50148 | 50145 | 50135 | 50143 | 50216 | 50216 | 50260 |
| 16 | 50289 | 50313 | 50321 | 50309 | 50293 | 50288 | 50304 | 50315 | 50312 | 50308 | 50308 | 50336 |
| 17 | 50383 | 50436 | 50472 | 50486 | 50486 | 50453 | 50398 | 50368 | 50361 | 50329 | 50331 | 50324 |
| 18 | 50338 | 50352 | 50347 | 50340 | 50351 | 50357 | 50356 | 50363 | 50360 | 50365 | 50359 | 50340 |
| 19 | 50316 | 50290 | 50254 | 50286 | 50175 | 50208 | 50156 | 50255 | 50168 | 50187 | 50187 | 50195 |
| 20 | 50201 | 50202 | 50194 | 50212 | 50212 | 50208 | 50247 | 50253 | 50253 | 50254 | 50262 | 50229 |
| 21 | 50290 | 50281 | 50279 | 50284 | 50286 | 50286 | 50287 | 50291 | 50289 | 50401 | 50433 | 50429 |
| 22 | 50426 | 50411 | 50347 | 50309 | 50312 | 50286 | 50296 | 50266 | 50285 | 50297 | 50270 | 50268 |
| 23 | 50280 | 50295 | 50300 | 50292 | 50281 | 50253 | 50248 | 50266 | 50270 | 50275 | 50270 | 50279 |

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 20- 6-1972 (DAY NO 172) | | | | | | | | | | | |
|-------|------------------------------|-------|----------|----------|-------|-------|----------|----------|----------|-------|----------|----------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 50277 | 50253 | 50226 | 50219 | 50215 | 50235 | 50245 | 50254 | 50274 | 50295 | 50309 | 50320 |
| 01 | 50292 | 50263 | 50238 | 50172 | 50105 | 50046 | 49956 | 49971 | 49930 | 49941 | 49951 | 49954 |
| 02 | | | 49932 | 49940 | 49949 | 49961 | 49958 | 50329 | 50312 | 50112 | 50190 | 50247 |
| 03 | 50302 | 50348 | 50362 | 50365 | 50368 | 50361 | 50344 | 50329 | 50333 | 50347 | 50365 | 50387 |
| 04 | 50391 | 50343 | 50357 | 50340 | 50326 | 50307 | 50297 | 50322 | 50334 | 50421 | 50433 | 50420 |
| 05 | 50393 | 50343 | 50276 | 50193 | 50133 | 50118 | 50145 | 50199 | 50232 | 50224 | 50232 | 50298 |
| 06 | 50400 | 50519 | 50616 | 50688 | 50731 | 50752 | 50764 | 50770 | 50770 | 50768 | 50766 | 50759 |
| 07 | 50751 | 50739 | 50724 | 50709 | 50692 | 50676 | 50662 | 50645 | 50631 | 50619 | 50603 | 50587 |
| 08 | 50572 | 50554 | 50520 | 50500 | 50482 | 50463 | 50449 | 50434 | 50422 | 50413 | 50401 | 50387 |
| 09 | 50374 | 50357 | 50341 | 50322 | 50304 | 50287 | 50272 | 50258 | 50246 | 50232 | 50217 | 50200 |
| 10 | 50182 | 50162 | 50139 | 50122 | 50106 | 50091 | 50080 | 50072 | 50070 | 50085 | 50085 | 50095 |
| 11 | 50108 | 50121 | 50136 | 50153 | 50168 | 50188 | 50206 | 50222 | 50238 | 50255 | 50269 | 50283 |
| 12 | 50296 | 50306 | 50316 | 50320 | 50326 | 50327 | 50323 | 50320 | 50315 | 50314 | 50314 | 50325 |
| 13 | 50342 | 50357 | 50372 | 50390 | 50403 | 50415 | 50423 | 50437 | 50443 | 50420 | 50377 | 50336 |
| 14 | 50527 | 50518 | 50515 | 50517 | 50503 | 50469 | 50437 | 50437 | 50397 | 50540 | 50565 | 50548 |
| 15 | 50252 | 50267 | 50230*12 | 50249 | 50347 | 50436 | 50270*32 | 50282 | 50397 | 50540 | 50565 | 50548 |
| 16 | 50511 | 50543 | 50444 | 50312 | 50141 | 49903 | 49770 | 49732 | 49936 | 50254 | 49784*49 | 50169*53 |
| 17 | 49755 | 49722 | 49928*11 | 49752*17 | 49793 | 49927 | 49876 | 49958 | 50085 | 50254 | 50278 | 50299 |
| 18 | | | | | 50174 | 50097 | 50061 | 50106 | 50034 | 50015 | 50008 | 49622 |
| 19 | 50369 | 50330 | 50233 | 50066 | 50155 | 50097 | 50350 | 50380*34 | 50164*42 | 50043 | 50031 | 50030 |
| 20 | 49935 | 49996 | 50025 | 50066 | 49387 | 50296 | 49986 | 49425 | 49497 | 49743 | 49959 | 50263 |
| 21 | 50437 | 50336 | 50269 | 50345*17 | 50325 | 50135 | 49980*31 | 50008 | 50109 | 49727 | 49959 | 50263 |
| 22 | 50148 | 50236 | 50269 | 50242 | 50325 | 50270 | 50311 | 50344 | 50109 | 50227 | 50276 | 50484 |
| 23 | 50234 | 50233 | 50242 | 50242 | 50243 | 50243 | 50311 | 50344 | 50375 | 50411 | 50450 | 50484 |

C 8

RRS DISCOVERY CRUISE NO. 47
TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 21- 6-1972 (DAY NO 173) | | | | | | | | | | | |
|-------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 50492 | 50461 | 50395 | 50329 | 50259 | 50191 | 50128 | 50089 | 50073 | 50080 | 50096 | 50112 |
| 01 | 50098 | 50048 | 49995 | 49974 | 49986 | 50015 | 50051 | 50088 | 50103 | 50092 | 50073 | 50056 |
| 02 | 50063 | 50088 | 50133 | 50179 | 50200 | 50200 | 50173 | 50140 | 50129 | 50092 | 50117 | 50112 |
| 03 | 50096 | 50072 | 50033 | 50002 | 49998 | 50012 | 50018 | 50040 | 50066 | 50085 | 50089 | 50080 |
| 04 | 32000*00 | 50056 | 50050 | 50049 | 50049 | 50049 | 50042 | 50030 | 50019 | 50011 | 50006 | 50014 |
| 05 | 50049 | 50088 | 50116 | 50136 | 50147 | 50156 | 50161 | 50156 | 50152 | 50145 | 50143 | 50140 |
| 06 | 50150 | 50174 | 50196 | 50219 | 50234 | 50245 | 50245 | 50243 | 50243 | 50245 | 50250 | 50272 |
| 07 | 50309 | 50343 | 50352 | 50332 | 50296 | 50274 | 50266 | 50271 | 50282 | 50245 | 50324 | 50317 |
| 08 | 50429 | 50302 | 50320 | 50370 | 50426 | 50469 | 50496 | 50505 | 50497 | 50477 | 50458 | 50441 |
| 09 | 50429 | 50412 | 50391 | 50373 | 50359 | 50336 | 50313 | 50289 | 50264 | 50251 | 50239 | 50229 |
| 10 | 50230 | 50230 | 50240 | 50243 | 50255 | 50257 | 50262 | 50260 | 50252 | 50245 | 50233 | 50223 |
| 11 | | | 50263 | 50273 | 50274 | 50275 | 50269 | 50263 | 50261 | 50255 | 50248 | 50243 |
| 12 | 50242 | 50251 | 50263 | 50273 | 50274 | 50275 | 50269 | 50263 | 50269 | 50277 | 50280 | 50280 |
| 13 | 50242 | 50239 | 50239 | 50238 | 50242 | 50244 | 50249 | 50262 | 50269 | 50273 | 50280 | 50280 |
| 14 | 50279 | 50279 | 50279 | 50277 | 50279 | 50288 | 50302 | 50317 | 50337 | 50353 | 50357 | 50359 |
| 15 | 50356 | 50354 | 50352 | 50345 | 50337 | 50318 | 50300 | 50273 | 50247 | 50221 | 50200 | 50177 |
| 16 | 50161 | 50146 | 50140 | 50136 | 50131 | 50133 | 50127 | 50128 | 50132 | 50158 | 50192 | 50226 |
| 17 | 50258 | 50292 | 50336 | 50373 | 50413 | 50457 | 50496 | 50524 | 50553 | 50568 | 50571 | 50567 |
| 18 | 50558 | 50548 | 50542 | 50537 | 50533 | 50492 | 50485 | 50492 | 50566 | 50575 | 50583 | 50587 |
| 19 | 50585 | 50577 | 50559 | 50538 | 50513 | 50492 | 50485 | 50492 | 50503 | 50507 | 50507 | 50499 |
| 20 | 50486 | 50471 | 50468 | 50473 | 50473 | 50460 | 50448 | 50437 | 50432 | 50429 | 50425 | 50421 |
| 21 | 50422 | 50430 | 50437 | 50443 | 50444 | 50454 | 50474 | 50487 | 50488 | 50490 | 50488 | 50485 |
| 22 | 50518 | 50507 | 50499 | 50506 | 50516 | 50529 | 50547 | 50564 | 50547 | 50619 | 50719 | 50865 |
| 23 | 50933 | 50885 | 50809 | 50744 | 50651 | 50500 | 50428 | 50383 | 50381 | 50427 | 50453 | 50424 |

| RRS DISCOVERY CRUISE NO. 47 | | TOTAL MAGNETIC FIELD IN GAMMAS | | | | | | | | | | | | DATE 22- 6-1972 (DAY NO 174) | | |
|-----------------------------|---------|--------------------------------|-------|-------|----------|-------|-------|----------|-------|-------|-------|-------|-------|------------------------------|--|--|
| HOURS | MINUTES | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | | | |
| 00 | | 50383 | 50351 | 50302 | 50151 | 49762 | 49389 | 48997*30 | 49115 | 49439 | 49814 | 50070 | 50483 | | | |
| 01 | | 50662*02 | 50640 | 50617 | 50729*16 | 50709 | 50665 | 50590 | 50578 | 50583 | 50565 | 50563 | 50604 | | | |
| 02 | | 50667 | 50717 | 50676 | 50674 | 50701 | 50699 | 50677 | 50643 | 50612 | 50589 | 50589 | 50623 | | | |
| 03 | | 50681 | 50746 | 50780 | 50782 | 50757 | 50734 | 50708 | 50691 | 50677 | 50642 | 50640 | 50678 | | | |
| 04 | | 50726 | 50727 | 50707 | 50682 | 50662 | 50640 | 50586 | 50500 | 50409 | 50356 | 50329 | 50312 | | | |
| 05 | | 50320 | 50379 | 50467 | 50539 | 50629 | 50728 | 50820 | 50911 | 50990 | 51045 | 51070 | 51068 | | | |
| 06 | | 51022 | 50922 | 50784 | 50663 | 50568 | 50506 | 50458 | 50430 | 50411 | 50394 | 50383 | 50374 | | | |
| 07 | | 50369 | 50359 | 50351 | 50349 | 50359 | 50376 | 50395 | 50413 | 50436 | 50471 | 50518 | 50573 | | | |
| 08 | | | | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 26- 6-1972 (DAY NO 178) | | | | | | | | | | | |
|-------|------------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|----|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 49979 | 49963 | 49950 | 49934 | 49922 | 49909 | 49894 | 49884 | 49872 | 49862 | 49860 | |
| 01 | 49853 | 49850 | 49842 | 49835 | 49832 | 49836 | 49832 | 49821 | 49802 | 49782 | 49764 | |
| 02 | 49745 | 49730 | 49708 | 49683 | 49659 | 49640 | 49616 | 49611 | 49617 | 49616 | 49621 | |
| 03 | 49629 | 49637 | 49648 | 49663 | 49676 | 49683 | 49690 | 49692 | 49690 | 49688 | 49689 | |
| 04 | | | 49716 | 49737 | 49762 | 49787 | 49831 | 49852 | 49866 | 49877 | 49884 | |
| 05 | 49884 | 49887 | 49889 | 49894 | 49895 | 49900 | 49907 | 49904 | 49889 | 49869 | 49844 | |
| 06 | 49817 | 49795 | 49771 | 49750 | 49732 | 49713 | 49691 | 49685 | 49675 | 49669 | 49663 | |
| 07 | 49655 | 49655 | 49657 | 49656 | 49656 | 49660 | 49663 | 49664 | 49669 | 49677 | 49690 | |
| 08 | 49699 | 49713 | 49732 | 49752 | 49768 | 49780 | 49814 | 49835 | 49856 | 49870 | 49877 | |
| 09 | 49880 | 49878 | 49876 | 49871 | 49869 | 49870 | 49883 | 49905 | 49926 | 49946 | 49955 | |
| 10 | 49978 | 49986 | 49993 | 49994 | 49992 | 49985 | 49979 | 49964 | 49959 | 49959 | 49955 | |
| 11 | 49945 | 49931 | 49917 | 49904 | 49896 | 49887 | 49881 | 49874 | 49877 | 49884 | 49895 | |
| 12 | 49899 | 49899 | 49900 | 49897 | 49890 | 49881 | 49876 | 49874 | 49809 | 49819 | 49826 | |
| 13 | 49828 | 49828 | 49833 | 49835 | 49838 | 49845 | 49851 | 49845 | 49840 | 49838 | 49846 | |
| 14 | 49858 | 49875 | 49891 | 49902 | 49906 | 49911 | 49909 | 49904 | 49896 | 49891 | 49888 | |
| 15 | 49890 | 49889 | 49888 | 49883 | 49879 | 49868 | 49857 | 49850 | 49846 | 49846 | 49849 | |
| 16 | 49859 | 49884 | 49914 | 49932 | 49957 | 49968 | 49972 | 49958 | 49948 | 49935 | 49927 | |
| 17 | 49923 | 49921 | 49914 | 49904 | 49897 | 49884 | 49893 | 49890 | 49891 | 49893 | 49892 | |
| 18 | 49902 | 49885 | 49878 | 49877 | 49879 | 49883 | 49889 | 49888 | 49891 | 49893 | 49894 | |
| 19 | 49840 | 49810 | 49816 | 49821 | 49821 | 49822 | 49827 | 49836 | 49826 | 49827 | 49834 | |
| 20 | 49852 | 49853 | 49872 | 49898 | 49921 | 49940 | 49954 | 49931 | 49909 | 49886 | 49863 | |
| 21 | 49852 | 49857 | 49867 | 49887 | 49897 | 49905 | 49917 | 49927 | 49938 | 49946 | 49934 | |
| 22 | 49912 | 49885 | 49861 | 49854 | 49866 | 49917 | 49976 | 49947 | 49883 | 49827 | 49777 | |
| 23 | 49710 | 49653 | 49621 | 49619 | 49576 | 49516 | 49282 | 49231 | 49251*43 | 49189 | 49268 | |

C10

| HOURS | DATE 27- 6-1972 (DAY NO 179) | | | | | | | | | | | |
|-------|------------------------------|----------|----------|----------|-------|----------|----------|----------|----------|----------|----------|----|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 49183 | 48854*06 | 48947 | 49154*14 | 48945 | 48995 | 49050*29 | 48887*37 | 48921 | 48832 | 48715*57 | |
| 01 | 48787 | 48913 | 48953*09 | 48799 | 48741 | 48704*23 | 48770 | 48987 | 49338 | 49421 | 49557 | |
| 02 | 49682 | 49854 | 50001 | 50121 | 50169 | 50159 | 50173 | 50012 | 49949 | 49998 | 50022 | |
| 03 | 50054 | 50076 | 50098 | 50020*16 | 50030 | 50048 | 50032 | 50027 | 49963 | 49932 | 49915 | |
| 04 | 49890 | 49886 | 49837 | 49770 | 49698 | 49645 | 49578 | 49506 | 49457 | 49365 | 49337 | |
| 05 | 49325 | 49320 | 49316 | 49323 | 49344 | 49379 | 49420 | 49484 | 49572 | 49757 | 49849 | |
| 06 | 49922 | 49975 | 50002 | 49323 | 50002 | 49971 | 49933 | 49888 | 49824 | 49730 | 49558 | |
| 07 | 49524 | 49584 | 49688 | 50006 | 49758 | 49703 | 49636 | 49601 | 49566 | 49534 | 49540 | |
| 08 | 49524 | 49552 | 49571*08 | 49481 | 49528 | 49607 | 49717*32 | 49679 | 49657*42 | 49575 | 49575 | |
| 09 | 49622 | 49664 | 49713 | 49735 | 49758 | 49673 | 49680 | 49736 | 49657 | 49588 | 49548 | |
| 10 | 49618 | 49449 | 49390*09 | 49491*13 | 49562 | 49562 | 49549 | 49634 | 49810 | 49638 | 49696 | |
| 11 | 49538 | 49551 | 49630 | 49729*17 | 49669 | 49562 | 49617 | 49658 | 49629 | 49675 | 49648 | |
| 12 | 49627*59 | 49568 | 49620 | 49588 | 49676 | 49892 | 50019*29 | 49921 | 49733 | 49715*43 | 49386*53 | |
| 13 | 49873*00 | 49335 | 49371 | 49576 | 50044 | 49871*27 | 49892 | 49792*36 | 49435 | 49237*49 | 49765 | |

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

| HOURS | DATE 29- 6-1972 (DAY NO 181) | | | | | | | | | | | | |
|-------|------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | |
| 00 | | | | | | | | | | | | | |
| 01 | | | | | | | | | | | | | |
| 02 | | | | | | | | | | | | | |
| 03 | | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | | |
| 05 | | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |

C 11

| HOURS | DATE 30- 6-1972 (DAY NO 182) | | | | | | | | | | | | |
|-------|------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | |
| 00 | | | | | | | | | | | | | |
| 01 | | | | | | | | | | | | | |
| 02 | | | | | | | | | | | | | |
| 03 | | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | | |
| 05 | | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |

C 11

RRS DISCOVERY CRUISE NO. 47
 TOTAL MAGNETIC FIELD IN GAMMAS

DATE 1- 7-1972 (DAY NO 183)

| HOURS | MINUTES | | | | | | | | | | | |
|-------|---------|----------|----------|----------|-------|----------|-------|----------|-------|-------|----------|-------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 48769 | 48772 | 48771 | 48775 | 48773 | 48769 | 48766 | 48759 | 48753 | 48744 | 48738 | 48731 |
| 01 | 48729 | 48735 | 48746 | 48763 | 48776 | 48787 | 48801 | 48804 | 48812 | 48818 | 48820 | 48827 |
| 02 | 48834 | 48843 | 48853 | 48861 | 48867 | 48868 | 48878 | 48888 | 48895 | 48893 | 48884 | 48883 |
| 03 | 48949 | 49042*03 | 48897 | 48752*17 | 48784 | 48820 | 48791 | 48776*33 | 48747 | 48620 | 48591*49 | 48774 |
| 04 | 48858 | 48837*03 | 48896*11 | 48954 | 48941 | 48956 | 48929 | 48903 | 48879 | 48860 | 48848 | 48837 |
| 05 | 48818 | 48783 | 48783 | 48759*13 | 48767 | 48749*27 | 48775 | 48693 | 48741 | 48740 | 48730 | 48726 |
| 06 | 48715 | 48708 | 48704 | 48695 | 48689 | 48685 | 48689 | 48673 | 48660 | 48664 | 48664 | 48650 |
| 07 | 48645 | 48630 | 48646 | 48671 | 48651 | 48636 | 48627 | 48622 | 48618 | 48616 | 48612 | 48606 |
| 08 | 48606 | 48604 | 48600 | 48593 | 48584 | 48555*27 | 48581 | 48607 | 48680 | 48650 | 48607*51 | 48629 |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |

| RRS DISCOVERY CRUISE NO 47 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC | | DATE 10- 6-1972 (DAY NO 162) | |
|--|---------|------------------------------|----|
| HOURS | MINUTES | 25 | 30 |
| 00 | 00 | 35 | 35 |
| 01 | 22 | 18 | 23 |
| 02 | 24 | 23 | 24 |
| 03 | 31 | 24 | 23 |
| 04 | 34 | 32 | 33 |
| 05 | 36 | 35 | 36 |
| 06 | 38 | 38 | 37 |
| 07 | 43 | 40 | 40 |
| 08 | 50 | 46 | 48 |
| 09 | 53 | 49 | 50 |
| 10 | 48 | 47 | 46 |
| 11 | 46 | 47 | 46 |
| 12 | 48 | 46 | 47 |
| 13 | 48 | 48 | 48 |
| 14 | 50 | 50 | 50 |
| 15 | 52 | 52 | 54 |
| 16 | 54 | 54 | 54 |
| 17 | 54 | 55 | 55 |
| 18 | 56 | 56 | 56 |
| 19 | 58 | 59 | 59 |
| 20 | 59 | 60 | 60 |
| 21 | 61 | 60 | 60 |
| 22 | 58 | 57 | 58 |
| 23 | 58 | 58 | 58 |
| 24 | 58 | 58 | 58 |
| 25 | 58 | 58 | 58 |
| 26 | 58 | 58 | 58 |
| 27 | 58 | 58 | 58 |
| 28 | 58 | 58 | 58 |
| 29 | 58 | 58 | 58 |
| 30 | 58 | 58 | 58 |
| 31 | 58 | 58 | 58 |
| 32 | 58 | 58 | 58 |
| 33 | 58 | 58 | 58 |
| 34 | 58 | 58 | 58 |
| 35 | 58 | 58 | 58 |
| 36 | 58 | 58 | 58 |
| 37 | 58 | 58 | 58 |
| 38 | 58 | 58 | 58 |
| 39 | 58 | 58 | 58 |
| 40 | 58 | 58 | 58 |
| 41 | 58 | 58 | 58 |
| 42 | 58 | 58 | 58 |
| 43 | 58 | 58 | 58 |
| 44 | 58 | 58 | 58 |
| 45 | 58 | 58 | 58 |
| 46 | 58 | 58 | 58 |
| 47 | 58 | 58 | 58 |
| 48 | 58 | 58 | 58 |
| 49 | 58 | 58 | 58 |
| 50 | 58 | 58 | 58 |
| 51 | 58 | 58 | 58 |
| 52 | 58 | 58 | 58 |
| 53 | 58 | 58 | 58 |
| 54 | 58 | 58 | 58 |
| 55 | 58 | 58 | 58 |
| 56 | 58 | 58 | 58 |
| 57 | 58 | 58 | 58 |
| 58 | 58 | 58 | 58 |
| 59 | 58 | 58 | 58 |
| 60 | 58 | 58 | 58 |

C 13

| RRS DISCOVERY CRUISE NO 47 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC | | DATE 11- 6-1972 (DAY NO 163) | |
|--|---------|------------------------------|-----|
| HOURS | MINUTES | 25 | 30 |
| 00 | 00 | 35 | 35 |
| 01 | 61 | 65 | 64 |
| 02 | 72 | 77 | 76 |
| 03 | 82 | 84 | 84 |
| 04 | 87 | 89 | 89 |
| 05 | 92 | 95 | 94 |
| 06 | 98 | 106 | 104 |
| 07 | 129 | 205 | 191 |
| 08 | 307 | 576 | 524 |
| 09 | 710 | 627 | 635 |
| 10 | 676 | 783 | 724 |
| 11 | 820 | 886 | 879 |
| 12 | 907 | 928 | 925 |
| 13 | 941 | 964 | 962 |
| 14 | 960 | 974 | 976 |
| 15 | 828 | 898 | 870 |
| 16 | 723 | 756 | 762 |
| 17 | 570 | 627 | 640 |
| 18 | 429 | 490 | 503 |
| 19 | 322 | 358 | 369 |
| 20 | 261 | 286 | 291 |
| 21 | 235 | 238 | 238 |
| 22 | 235 | 254 | 250 |
| 23 | 266 | 266 | 266 |
| 24 | 266 | 266 | 266 |
| 25 | 266 | 266 | 266 |
| 26 | 266 | 266 | 266 |
| 27 | 266 | 266 | 266 |
| 28 | 266 | 266 | 266 |
| 29 | 266 | 266 | 266 |
| 30 | 266 | 266 | 266 |
| 31 | 266 | 266 | 266 |
| 32 | 266 | 266 | 266 |
| 33 | 266 | 266 | 266 |
| 34 | 266 | 266 | 266 |
| 35 | 266 | 266 | 266 |
| 36 | 266 | 266 | 266 |
| 37 | 266 | 266 | 266 |
| 38 | 266 | 266 | 266 |
| 39 | 266 | 266 | 266 |
| 40 | 266 | 266 | 266 |
| 41 | 266 | 266 | 266 |
| 42 | 266 | 266 | 266 |
| 43 | 266 | 266 | 266 |
| 44 | 266 | 266 | 266 |
| 45 | 266 | 266 | 266 |
| 46 | 266 | 266 | 266 |
| 47 | 266 | 266 | 266 |
| 48 | 266 | 266 | 266 |
| 49 | 266 | 266 | 266 |
| 50 | 266 | 266 | 266 |
| 51 | 266 | 266 | 266 |
| 52 | 266 | 266 | 266 |
| 53 | 266 | 266 | 266 |
| 54 | 266 | 266 | 266 |
| 55 | 266 | 266 | 266 |
| 56 | 266 | 266 | 266 |
| 57 | 266 | 266 | 266 |
| 58 | 266 | 266 | 266 |
| 59 | 266 | 266 | 266 |
| 60 | 266 | 266 | 266 |

RCS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC.

| HOURS | DATE 12- 6-1972 (DAY NO 164) | | | | |
|-------|------------------------------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 260 | 263 | 260 | 260 | 261 |
| 01 | 269 | 272 | 274 | 278 | 282 |
| 02 | 313 | 317 | 327 | 337 | 339 |
| 03 | 397 | 406 | 406 | 410 | 400 |
| 04 | 1024 | 998 | 938 | 882 | 864 |
| 05 | 794 | 810 | 825 | 850 | 816 |
| 06 | 1208 | 1300 | 1354 | 1400 | 930 |
| 07 | 1616 | 1622 | 1630 | 1640 | 1322 |
| 08 | 1745 | 1808 | 1758 | 1762 | 1653 |
| 09 | 1807 | 1839 | 1811 | 1827 | 1765 |
| 10 | 1830 | 1878 | 1840 | 1839 | 1828 |
| 11 | 1870 | 2004 | 1883 | 1886 | 1854 |
| 12 | 1992 | 2233 | 2032 | 2058 | 1914 |
| 13 | 2222 | 2362 | 2240 | 2246 | 2074 |
| 14 | 2358 | 2382 | 2366 | 2369 | 2256 |
| 15 | 2380 | 2394 | 2383 | 2384 | 2371 |
| 16 | 2392 | 2428 | 2396 | 2400 | 2385 |
| 17 | 2426 | 2459 | 2427 | 2427 | 2404 |
| 18 | 2456 | 2476 | 2460 | 2462 | 2424 |
| 19 | 2474 | 2470 | 2476 | 2478 | 2466 |
| 20 | 2472 | 2442 | 2469 | 2468 | 2466 |
| 21 | 2448 | 2416 | 2411 | 2438 | 2434 |
| 22 | 2420 | 2386 | 2382 | 2378 | 2406 |
| 23 | | | | | 2367 |

| HOURS | DATE 13- 6-1972 (DAY NO 165) | | | | |
|-------|------------------------------|------|------|------|--------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 265 | 266 | 264 | 264 | 264 |
| 01 | 303 | 301 | 298 | 286 | 291 |
| 02 | 304 | 384 | 344 | 290 | 304 |
| 03 | 1116 | 938 | 1012 | 705 | 322*32 |
| 04 | 774 | 772 | 790 | 854 | 928 |
| 05 | 1038 | 772 | 964 | 854 | 816 |
| 06 | 1532 | 1038 | 964 | 896 | 930 |
| 07 | 1692 | 1532 | 1390 | 1315 | 1322 |
| 08 | 1792 | 1692 | 1658 | 1654 | 1653 |
| 09 | 1840 | 1840 | 1784 | 1762 | 1828 |
| 10 | 1865 | 1865 | 1835 | 1828 | 1828 |
| 11 | 1945 | 1945 | 1854 | 1854 | 1854 |
| 12 | 2168 | 2168 | 1921 | 1921 | 1914 |
| 13 | 2310 | 2310 | 2122 | 2084 | 2100 |
| 14 | 2357 | 2357 | 2288 | 2266 | 2275 |
| 15 | 2379 | 2379 | 2375 | 2374 | 2374 |
| 16 | 2391 | 2391 | 2388 | 2386 | 2387 |
| 17 | 2426 | 2426 | 2416 | 2404 | 2412 |
| 18 | 2452 | 2448 | 2434 | 2420 | 2424 |
| 19 | 2472 | 2470 | 2468 | 2464 | 2466 |
| 20 | 2472 | 2474 | 2478 | 2480 | 2480 |
| 21 | 2453 | 2459 | 2465 | 2467 | 2466 |
| 22 | 2424 | 2429 | 2435 | 2438 | 2434 |
| 23 | 2398 | 2397 | 2403 | 2408 | 2406 |
| 24 | 2344 | 2354 | 2363 | 2369 | 2367 |

RCS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC.

| HOURS | DATE 13- 6-1972 (DAY NO 165) | | | | |
|-------|------------------------------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 2307 | 2303 | 2310 | 2330 | 2324 |
| 01 | 2267 | 2262 | 2272 | 2284 | 2282 |
| 02 | 2228 | 2220 | 2234 | 2251 | 2248 |
| 03 | 2126 | 2119 | 2136 | 2173 | 2162 |
| 04 | 2018 | 2012 | 2021 | 2046 | 2038 |
| 05 | 1956 | 1952 | 1958 | 2046 | 1974 |
| 06 | 1904 | 1903 | 1911 | 1978 | 1916 |
| 07 | 1877 | 1874 | 1880 | 1888 | 1884 |
| 08 | 1851 | 1851 | 1851 | 1860 | 1854 |
| 09 | 1840 | 1840 | 1842 | 1868 | 1845 |
| 10 | 1817 | 1819 | 1824 | 1829 | 1828 |
| 11 | 1784 | 1788 | 1800 | 1808 | 1806 |
| 12 | 1764 | 1764 | 1765 | 1773 | 1770 |
| 13 | 1739 | 1743 | 1745 | 1754 | 1752 |
| 14 | 1700 | 1704 | 1707 | 1722 | 1719 |
| 15 | 1670 | 1674 | 1680 | 1692 | 1693 |
| 16 | 1641 | 1641 | 1645 | 1663 | 1659 |
| 17 | 1600 | 1612 | 1626 | 1628 | 1630 |
| 18 | 1546 | 1541 | 1554 | 1628 | 1634 |
| 19 | 1524 | 1528 | 1536 | 1568 | 1590 |
| 20 | 1491 | 1478 | 1484 | 1535 | 1537 |
| 21 | 1453 | 1455 | 1456 | 1506 | 1514 |
| 22 | 1392 | 1392 | 1410 | 1464 | 1475 |
| 23 | 1340 | 1336 | 1354 | 1419 | 1420 |
| 24 | | | | 1368 | 1368 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 14-6-1972 (DAY NO 166) | | | | | |
|-------|-----------------------------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | 1326 | 1316 | 1316 | 1318 | 1304 | 1302 |
| 01 | 1268 | 1272 | 1266 | 1257 | 1248 | 1242 |
| 02 | 1182 | 1186 | 1192 | 1190 | 1194 | 1204 |
| 03 | 1218 | 1219 | 1223 | 1226 | 1226 | 1238 |
| 04 | 1250 | 1254 | 1264 | 1266 | 1270 | 1280 |
| 05 | 1280 | 1282 | 1281 | 1284 | 1286 | 1284 |
| 06 | 1283 | 1283 | 1285 | 1286 | 1285 | 1283 |
| 07 | 1280 | 1278 | 1278 | 1284 | 1282 | 1283 |
| 08 | 1296 | 1296 | 1296 | 1296 | 1296 | 1284 |
| 09 | 1296 | 1296 | 1296 | 1296 | 1296 | 1296 |
| 10 | 1291 | 1296 | 1296 | 1296 | 1296 | 1295 |
| 11 | 1302 | 1303 | 1292 | 1288 | 1288 | 1288 |
| 12 | 1304 | 1304 | 1304 | 1303 | 1304 | 1306 |
| 13 | 1304 | 1304 | 1306 | 1308 | 1308 | 1308 |
| 14 | 1311 | 1308 | 1305 | 1300 | 1290 | 1290 |
| 15 | 1276 | 1266 | 1265 | 1266 | 1266 | 1265 |
| 16 | 1280 | 1294 | 1290 | 1299 | 1285 | 1298 |
| 17 | 1284 | 1287 | 1273 | 1280 | 1285 | 1268 |
| 18 | 1258 | 1260 | 1264 | 1264 | 1264 | 1271 |
| 19 | 1308 | 1291 | 1289 | 1294 | 1296 | 1304 |
| 20 | 1279 | 1273 | 1268 | 1267 | 1264 | 1262 |
| 21 | 1227 | 1225 | 1218 | 1208 | 1181 | 1142 |
| 22 | 998 | 995 | 960 | 945 | 933 | 912 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 15-6-1972 (DAY NO 167) | | | | | |
|-------|-----------------------------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | 896 | 909 | 936 | 900 | 874 | 846 |
| 01 | 828 | 876 | 834 | 848 | 862 | 844 |
| 02 | 866 | 971 | 885 | 891 | 898 | 919 |
| 03 | 960 | 1077 | 978 | 982 | 994 | 1011 |
| 04 | 1062 | 1280 | 1088 | 1105 | 1113 | 1135 |
| 05 | 1256 | 1362 | 1300 | 1304 | 1324 | 1344 |
| 06 | 1361 | 1382 | 1364 | 1365 | 1366 | 1356 |
| 07 | 1384 | 1052 | 1035 | 1022 | 1000 | 958 |
| 08 | 1075 | 859 | 851 | 844 | 836 | 820 |
| 09 | 868 | 802 | 801 | 801 | 801 | 824 |
| 10 | 804 | 767 | 763 | 760 | 757 | 795 |
| 11 | 770 | 778 | 788 | 797 | 803 | 754 |
| 12 | 772 | 798 | 788 | 778 | 771 | 820 |
| 13 | 815 | 798 | 788 | 778 | 765 | 754 |
| 14 | 696 | 686 | 679 | 672 | 665 | 652 |
| 15 | 615 | 580 | 674 | 613 | 600 | 636 |
| 16 | 558 | 559 | 558 | 558 | 558 | 558 |
| 17 | 563 | 566 | 570 | 575 | 579 | 564 |
| 18 | 491 | 483 | 474 | 467 | 460 | 440 |
| 19 | 436 | 435 | 440 | 436 | 440 | 445 |
| 20 | 462 | 406 | 395 | 384 | 474 | 465 |
| 21 | 418 | 317 | 316 | 300 | 375 | 366 |
| 22 | 332 | | | | 290 | 267 |

RRS DISCOVERY CRUISE NO 47
 DATE 16- 6-1972 (DAY NO 168)

| HOURS | VELOCITY OF 800 FMS/SEC | | | | DATE | 45 | 50 | 55 |
|-------|-------------------------|-----|-----|-----|------|-----|-----|-----|
| | 00 | 05 | 10 | 15 | | | | |
| 00 | 240 | 242 | 240 | 241 | 232 | 232 | 230 | 228 |
| 01 | 228 | 228 | 228 | 225 | 212 | 210 | 207 | 204 |
| 02 | 202 | 198 | 196 | 194 | 178 | 176 | 176 | 173 |
| 03 | 173 | 171 | 170 | 166 | 157 | 152 | 152 | 148 |
| 04 | 146 | 143 | 141 | 135 | 138 | 137 | 137 | 134 |
| 05 | 137 | 137 | 136 | 132 | 125 | 121 | 121 | 122 |
| 06 | 122 | 122 | 122 | 122 | 117 | 113 | 113 | 117 |
| 07 | 112 | 111 | 112 | 104 | 113 | 113 | 113 | 117 |
| 08 | 102 | 98 | 96 | 94 | 90 | 90 | 94 | 94 |
| 09 | 108 | 104 | 98 | 94 | 121 | 121 | 116 | 116 |
| 10 | 118 | 109 | 92 | 94 | 114 | 114 | 114 | 114 |
| 11 | 113 | 113 | 113 | 113 | 114 | 114 | 115 | 116 |
| 12 | 116 | 113 | 117 | 113 | 115 | 115 | 115 | 116 |
| 13 | 100 | 116 | 117 | 114 | 99 | 98 | 99 | 100 |
| 14 | 97 | 101 | 102 | 104 | 100 | 98 | 98 | 96 |
| 15 | | | | | 112 | 112 | | |
| 16 | 114 | | | 111 | 113 | 113 | | |
| 17 | 115 | | | 114 | 112 | 112 | | |
| 18 | 107 | | | 105 | 108 | 108 | | |
| 19 | | 105 | | 104 | | | 102 | 102 |
| 20 | 102 | | 104 | 101 | 102 | 100 | 100 | 102 |
| 21 | 142 | 103 | 104 | 105 | 117 | 121 | 127 | 134 |
| 22 | 334 | 355 | 372 | 398 | 250 | 268 | 282 | 308 |
| 23 | | | | | 496 | 526 | 549 | 570 |

RRS DISCOVERY CRUISE NO 47
 DATE 17- 6-1972 (DAY NO 169)

| HOURS | VELOCITY OF 800 FMS/SEC | | | | DATE | 45 | 50 | 55 |
|-------|-------------------------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | | | | |
| 00 | 568 | 570 | 662 | 678 | 828 | 856 | 892 | 910 |
| 01 | 932 | 952 | 971 | 1004 | 1094 | 1200 | 1144 | 1166 |
| 02 | 1188 | 1207 | 1213 | 1220 | 1258 | 1258 | 1259 | 1258 |
| 03 | 1260 | 1261 | 1263 | 1266 | 1288 | 1292 | 1298 | 1300 |
| 04 | 1304 | 1307 | 1312 | 1316 | 1328 | 1331 | 1334 | 1336 |
| 05 | 1338 | 1339 | 1339 | 1346 | 1357 | 1359 | 1362 | 1363 |
| 06 | 1364 | 1368 | 1367 | 1372 | 1376 | 1380 | 1374 | 1378 |
| 07 | 1380 | 1377 | 1366 | 1387 | 1375 | 1377 | 1377 | 1376 |
| 08 | 1379 | 1382 | 1379 | 1380 | 1390 | 1394 | 1394 | 1394 |
| 09 | 1392 | 1394 | 1395 | 1387 | 1402 | 1406 | 1406 | 1406 |
| 10 | 1408 | 1412 | 1412 | 1400 | 1413 | 1414 | 1414 | 1413 |
| 11 | 1406 | 1406 | 1406 | 1412 | 1386 | 1386 | 1386 | 1384 |
| 12 | 1380 | 1379 | 1376 | 1378 | 1370 | 1376 | 1375 | 1374 |
| 13 | 1371 | 1370 | 1370 | 1368 | 1359 | 1359 | 1355 | 1374 |
| 14 | 1355 | 1350 | 1340 | 1336 | 1334 | 1334 | 1334 | 1332 |
| 15 | 1311 | 1329 | 1327 | 1321 | 1315 | 1314 | 1314 | 1290 |
| 16 | 1290 | 1308 | 1304 | 1303 | 1295 | 1295 | 1293 | 1277 |
| 17 | 1274 | 1272 | 1288 | 1283 | 1280 | 1279 | 1278 | 1257 |
| 18 | 1257 | 1272 | 1270 | 1266 | 1258 | 1257 | 1257 | 1257 |
| 19 | 1250 | 1257 | 1257 | 1257 | 1254 | 1254 | 1252 | 1252 |
| 20 | 1236 | 1250 | 1248 | 1246 | 1242 | 1240 | 1239 | 1236 |
| 21 | 1239 | 1235 | 1231 | 1227 | 1214 | 1212 | 1206 | 1202 |
| 22 | 1209 | 1213 | 1216 | 1212 | 1204 | 1205 | 1205 | 1202 |
| 23 | 1516 | 1510 | 1497 | 1478 | 1384 | 1370 | 1364 | 1360 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 18- 6-1972 (DAY NO 170) | | | | | |
|-------|------------------------------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | 358 | 350 | 345 | 339 | 335 | 332 |
| 01 | 327 | 328 | 332 | 340 | 343 | 350 |
| 02 | 385 | 391 | 401 | 401 | 403 | 414 |
| 03 | 1081 | 1112 | 1114 | 1102 | 1092 | 1096 |
| 04 | 1038 | 1031 | 1024 | 1018 | 1012 | 1005 |
| 05 | 967 | 964 | 958 | 954 | 950 | 945 |
| 06 | 944 | 945 | 945 | 944 | 945 | 949 |
| 07 | 986 | 989 | 993 | 997 | 1001 | 1004 |
| 08 | 1024 | 1025 | 1029 | 1032 | 1034 | 1038 |
| 09 | 1060 | 1068 | 1058 | 1050 | 1047 | 1043 |
| 10 | 1094 | 1087 | 996 | 938 | 900 | 810 |
| 11 | 400 | 396 | 416 | 376 | 366 | 354 |
| 12 | 390 | 400 | 416 | 429 | 442 | 456 |
| 13 | 1040 | 1076 | 1125 | 1154 | 1167 | 1170 |
| 14 | 1118 | 1114 | 1111 | 1108 | 1107 | 1106 |
| 15 | 1112 | 1112 | 1112 | 1110 | 1110 | 1106 |
| 16 | | | | | | |
| 17 | 1090 | 1088 | 1086 | 1084 | 1083 | 1082 |
| 18 | 1067 | 1065 | 1063 | 1060 | 1059 | 1058 |
| 19 | 1043 | 1041 | 1039 | 1036 | 1036 | 1033 |
| 20 | 1020 | 1018 | 1018 | 1016 | 1016 | 1014 |
| 21 | 1008 | 1006 | 1005 | 1005 | 1004 | 1003 |
| 22 | 999 | 998 | 997 | 997 | 996 | 994 |
| 23 | | | | | | |

C17

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 19- 6-1972 (DAY NO 171) | | | | | |
|-------|------------------------------|-----|-----|-----|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | 990 | 990 | 990 | 988 | 988 | 988 |
| 01 | 992 | 992 | 994 | 988 | 1001 | 1020 |
| 02 | 624 | 584 | 560 | 524 | 510 | 486 |
| 03 | 318 | 303 | 290 | 280 | 274 | 268 |
| 04 | 406 | 424 | 440 | 459 | 480 | 488 |
| 05 | 750 | 755 | 767 | 778 | 792 | 803 |
| 06 | 886 | 899 | 918 | 925 | 934 | 940 |
| 07 | 946 | 958 | 941 | 936 | 930 | 926 |
| 08 | 899 | 897 | 892 | 888 | 884 | 877 |
| 09 | 856 | 853 | 850 | 849 | 844 | 838 |
| 10 | 822 | 818 | 816 | 814 | 811 | 808 |
| 11 | 790 | 788 | 786 | 784 | 782 | 778 |
| 12 | 762 | 759 | 753 | 748 | 744 | 738 |
| 13 | 698 | 692 | 688 | 686 | 682 | 678 |
| 14 | 673 | 674 | 674 | 675 | 676 | 674 |
| 15 | 677 | 677 | 676 | 676 | 671 | 671 |
| 16 | 655 | 653 | 651 | 650 | 648 | 642 |
| 17 | 623 | 616 | 612 | 607 | 602 | 592 |
| 18 | 563 | 556 | 554 | 551 | 547 | 539 |
| 19 | 531 | 529 | 527 | 526 | 524 | 524 |
| 20 | 522 | 525 | 524 | 524 | 524 | 522 |
| 21 | 515 | 520 | 524 | 526 | 526 | 522 |
| 22 | | | | | | |
| 23 | | | | | | |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS./SEC

| HOURS | DATE 20-6-1972 (DAY NO 172) | | | | |
|-------|-----------------------------|-----|-----|-----|-----|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 660 | 665 | 668 | 670 | 674 |
| 01 | 715 | 724 | 722 | 714 | 706 |
| 02 | 663 | 659 | 658 | 654 | 653 |
| 03 | 652 | 654 | 656 | 659 | 660 |
| 04 | 683 | 686 | 688 | 690 | 691 |
| 05 | 690 | 693 | 695 | 696 | 698 |
| 06 | 711 | 713 | 714 | 715 | 717 |
| 07 | 728 | 729 | 731 | 733 | 736 |
| 08 | 749 | 750 | 753 | 754 | 756 |
| 09 | 774 | 776 | 779 | 782 | 785 |
| 10 | 793 | 791 | 789 | 788 | 786 |
| 11 | 778 | 778 | 777 | 777 | 776 |
| 12 | 774 | 774 | 774 | 774 | 774 |
| 13 | 776 | 778 | 778 | 778 | 778 |
| 14 | 827 | 836 | 858 | 856 | 822 |
| 15 | 570 | 555 | 544 | 511 | 483 |
| 16 | 277 | 266 | 264 | 258 | 254 |
| 17 | 356 | 359 | 364 | 321 | 324 |
| 18 | 310 | 315 | 318 | 321 | 324 |
| 19 | 364 | 370 | 375 | 380 | 385 |
| 20 | 430 | 436 | 442 | 450 | 462 |
| 21 | 516 | 517 | 538 | 510 | 522 |
| 22 | 584 | 584 | 582 | 578 | 574 |
| 23 | | | | | |

| HOURS | DATE 20-6-1972 (DAY NO 172) | | | | |
|-------|-----------------------------|-----|-----|-----|-----|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 691 | 697 | 702 | 702 | 702 |
| 01 | 675 | 663 | 666 | 666 | 666 |
| 02 | 646 | 647 | 649 | 649 | 649 |
| 03 | 669 | 672 | 674 | 674 | 674 |
| 04 | 677 | 674 | 672 | 672 | 672 |
| 05 | 678 | 682 | 683 | 683 | 683 |
| 06 | 705 | 708 | 710 | 710 | 710 |
| 07 | 723 | 724 | 724 | 724 | 724 |
| 08 | 742 | 744 | 745 | 745 | 745 |
| 09 | 765 | 767 | 769 | 769 | 769 |
| 10 | 797 | 798 | 797 | 797 | 795 |
| 11 | 782 | 782 | 780 | 780 | 780 |
| 12 | 774 | 774 | 774 | 774 | 774 |
| 13 | 774 | 776 | 775 | 774 | 775 |
| 14 | 792 | 798 | 808 | 775 | 775 |
| 15 | 776 | 747 | 708 | 708 | 820 |
| 16 | 350 | 336 | 320 | 320 | 663 |
| 17 | 252 | 250 | 252 | 252 | 254 |
| 18 | 292 | 297 | 302 | 302 | 306 |
| 19 | 346 | 350 | 356 | 356 | 360 |
| 20 | 406 | 413 | 422 | 422 | 427 |
| 21 | 501 | 514 | 514 | 514 | 521 |
| 22 | 556 | 560 | 564 | 564 | 577 |
| 23 | 572 | 571 | 571 | 571 | 570 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS./SEC

| HOURS | DATE 21-6-1972 (DAY NO 173) | | | | |
|-------|-----------------------------|-----|-----|-----|-----|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 570 | 569 | 570 | 570 | 570 |
| 01 | 579 | 580 | 582 | 583 | 584 |
| 02 | 607 | 609 | 608 | 609 | 600 |
| 03 | 615 | 616 | 618 | 616 | 617 |
| 04 | 624 | 622 | 622 | 624 | 626 |
| 05 | 638 | 636 | 640 | 640 | 640 |
| 06 | 646 | 648 | 648 | 652 | 654 |
| 07 | 668 | 668 | 672 | 668 | 666 |
| 08 | 641 | 639 | 637 | 635 | 633 |
| 09 | 627 | 626 | 624 | 625 | 626 |
| 10 | 616 | 620 | 619 | 618 | 620 |
| 11 | 616 | 620 | 614 | 614 | 612 |
| 12 | 605 | 604 | 604 | 610 | 604 |
| 13 | 598 | 598 | 596 | 596 | 594 |
| 14 | 582 | 584 | 578 | 576 | 572 |
| 15 | 566 | 567 | 564 | 566 | 565 |
| 16 | 554 | 553 | 551 | 550 | 548 |
| 17 | 552 | 554 | 556 | 559 | 559 |
| 18 | 560 | 560 | 565 | 562 | 566 |
| 19 | 457 | 453 | 450 | 445 | 436 |
| 20 | 403 | 400 | 390 | 384 | 377 |
| 21 | 346 | 342 | 337 | 337 | 334 |
| 22 | 319 | 319 | 318 | 317 | 316 |
| 23 | | | | | |

| HOURS | DATE 21-6-1972 (DAY NO 173) | | | | |
|-------|-----------------------------|-----|-----|-----|-----|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 575 | 578 | 578 | 578 | 578 |
| 01 | 590 | 594 | 594 | 594 | 594 |
| 02 | 602 | 604 | 604 | 605 | 604 |
| 03 | 615 | 616 | 618 | 618 | 618 |
| 04 | 631 | 630 | 630 | 630 | 634 |
| 05 | 642 | 643 | 643 | 643 | 645 |
| 06 | 660 | 662 | 662 | 662 | 662 |
| 07 | 643 | 643 | 645 | 645 | 641 |
| 08 | 630 | 628 | 628 | 628 | 628 |
| 09 | 616 | 622 | 622 | 622 | 622 |
| 10 | 616 | 617 | 617 | 617 | 614 |
| 11 | 612 | 610 | 610 | 610 | 608 |
| 12 | 607 | 604 | 604 | 604 | 606 |
| 13 | 594 | 590 | 584 | 584 | 598 |
| 14 | 570 | 576 | 568 | 568 | 584 |
| 15 | 560 | 560 | 558 | 558 | 566 |
| 16 | 548 | 548 | 549 | 549 | 556 |
| 17 | 559 | 560 | 569 | 569 | 551 |
| 18 | 483 | 488 | 474 | 474 | 570 |
| 19 | 434 | 436 | 425 | 425 | 468 |
| 20 | 359 | 356 | 352 | 352 | 409 |
| 21 | 327 | 328 | 326 | 326 | 348 |
| 22 | 302 | 302 | 301 | 301 | 322 |
| 23 | | | | | 308 |

| HOURS | DATE 22- 6-1972 (DAY NO 174) | | | | | | | | | | | |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 305 | 314 | 310 | 312 | 295 | 294 | 293 | 289 | 284 | 286 | 278 | 284 |
| 01 | 284 | 288 | 286 | 284 | 292 | 299 | 299 | 297 | 300 | 302 | 302 | 302 |
| 02 | 308 | 322 | 353 | 356 | 366 | 374 | 390 | 392 | 428 | 436 | 448 | 452 |
| 03 | 457 | 462 | 470 | 476 | 490 | 506 | 520 | 530 | 539 | 554 | 567 | 572 |
| 04 | 582 | 596 | 609 | 620 | 628 | 637 | 646 | 657 | 668 | 678 | 688 | 697 |
| 05 | 708 | 717 | 729 | 738 | 750 | 764 | 774 | 786 | 798 | 813 | 824 | 842 |
| 06 | 856 | 882 | 894 | 914 | 928 | 948 | 926 | 910 | 951 | 1014 | 1011 | 1020 |
| 07 | 1038 | 1058 | 1074 | 1084 | 1100 | 1114 | 1134 | 1146 | 1146 | 1156 | 1190 | 1218 |
| 08 | 1245 | | | | | | | | | | | |

RRS DISCOVERY CRUISE NO 47
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS./SEC

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 00 | | | | | | | | | | | | |
| 01 | 88 | 86 | 86 | 88 | | | 79 | | 88 | 86 | 83 | |
| 02 | | | | | 91 | 91 | 86 | 84 | | | | |
| 03 | | | | | | | | 82 | | | | |
| 04 | | | 109 | 103 | | | | | | | | 101 |
| 05 | 93 | 97 | | | | | | | 91 | | | |
| 06 | | 101 | | 101 | 95 | 92 | 92 | 91 | 91 | | | |
| 07 | | | | | | | | 102 | 98 | 99 | | |
| 08 | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | 115 | 111 | 105 | 91 | 97 | 96 | 90 | 89 | 91 | 90 |
| 12 | 89 | 88 | 92 | 94 | 94 | 94 | 92 | 92 | 92 | 92 | 92 | 92 |
| 13 | 93 | 92 | 91 | 92 | 89 | 95 | 92 | 99 | 106 | 107 | 117 | 121 |
| 14 | 122 | 123 | 124 | 127 | 128 | 130 | 133 | 135 | 141 | 141 | 144 | 146 |
| 15 | 149 | 150 | 154 | 156 | 157 | 160 | 162 | 166 | 166 | 166 | 170 | 170 |
| 16 | 170 | 174 | 176 | 180 | 182 | 184 | 186 | 188 | 190 | 188 | 174 | 182 |
| 17 | 190 | 193 | 193 | 193 | 190 | 189 | 194 | 198 | 202 | 206 | 206 | 208 |
| 18 | 210 | 214 | 218 | 223 | 226 | 230 | 230 | 234 | 236 | 238 | 240 | 242 |
| 19 | 244 | 248 | 252 | 255 | 257 | 262 | 262 | 263 | 267 | 268 | 270 | 272 |
| 20 | 274 | 276 | 277 | 279 | 280 | 280 | 281 | 282 | 283 | 284 | 284 | 284 |
| 21 | 285 | 286 | 285 | 287 | 286 | 286 | 286 | 287 | 286 | 287 | 287 | 288 |
| 22 | 288 | 288 | 288 | 289 | 290 | 290 | 290 | 290 | 290 | 289 | 288 | 288 |

C 21

RRS DISCOVERY CRUISE NO 47
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS./SEC

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 00 | | | | | | | | | | | | |
| 01 | 288 | 286 | 286 | 288 | 288 | 288 | 287 | 287 | 287 | 286 | 285 | 286 |
| 02 | 282 | 281 | 281 | 280 | 280 | 286 | 286 | 286 | 286 | 284 | 284 | 286 |
| 03 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 278 | 277 | 277 |
| 04 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 | 277 |
| 05 | 273 | 273 | 270 | 272 | 270 | 269 | 266 | 272 | 276 | 274 | 273 | 272 |
| 06 | 289 | 289 | 295 | 309 | 308 | 311 | 314 | 317 | 319 | 283 | 287 | 288 |
| 07 | 288 | 289 | 295 | 309 | 308 | 311 | 314 | 317 | 319 | 322 | 324 | 325 |
| 08 | 374 | 374 | 332 | 336 | 344 | 348 | 342 | 350 | 356 | 360 | 364 | 368 |
| 09 | 468 | 468 | 380 | 385 | 391 | 398 | 404 | 408 | 410 | 416 | 420 | 450 |
| 10 | 554 | 508 | 514 | 577 | 506 | 507 | 514 | 521 | 527 | 534 | 540 | 548 |
| 11 | 666 | 561 | 688 | 696 | 706 | 594 | 602 | 611 | 620 | 628 | 642 | 653 |
| 12 | 759 | 677 | 751 | 744 | 740 | 716 | 722 | 738 | 746 | 754 | 761 | 761 |
| 13 | 704 | 757 | 702 | 698 | 706 | 738 | 730 | 724 | 718 | 714 | 707 | 705 |
| 14 | 704 | 703 | 708 | 704 | 696 | 698 | 700 | 704 | 708 | 708 | 706 | 718 |
| 15 | 718 | 716 | 713 | 708 | 705 | 708 | 709 | 712 | 711 | 711 | 714 | 718 |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 710 | 711 | 712 | 711 | 711 | 711 | 710 | 710 | 710 | 711 | 710 | 710 |
| 20 | 706 | 706 | 712 | 709 | 708 | 709 | 710 | 708 | 710 | 710 | 708 | 705 |
| 21 | 694 | 698 | 697 | 694 | 694 | 699 | 699 | 698 | 698 | 696 | 696 | 696 |
| 22 | 701 | 700 | 698 | 696 | 696 | 696 | 698 | 698 | 699 | 698 | 700 | 700 |
| 23 | 702 | 700 | 702 | 702 | 704 | 704 | 706 | 706 | 709 | 712 | 710 | 714 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 26- 6-1972 (DAY NO 178) | | | | | | | | | | | |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 718 | 719 | 721 | 725 | 726 | 728 | 730 | 734 | 736 | 738 | 740 | 743 |
| 01 | 744 | 745 | 747 | 750 | 752 | 753 | 754 | 756 | 758 | 756 | 754 | 756 |
| 02 | 756 | 759 | 760 | 762 | 765 | 766 | 769 | 770 | 774 | 776 | 774 | 778 |
| 03 | 780 | 781 | 782 | 783 | 783 | 783 | 782 | 783 | 782 | 783 | 782 | 781 |
| 04 | 780 | 779 | 779 | 779 | 778 | 777 | 776 | 777 | 775 | 774 | 774 | 774 |
| 05 | 776 | 777 | 778 | 779 | 782 | 785 | 785 | 787 | 790 | 792 | 793 | 796 |
| 06 | 797 | 800 | 803 | 807 | 810 | 814 | 814 | 818 | 822 | 826 | 828 | 832 |
| 07 | 838 | 840 | 842 | 848 | 840 | 860 | 862 | 868 | 872 | 882 | 882 | 885 |
| 08 | 892 | 903 | 916 | 920 | 920 | 922 | 928 | 932 | 937 | 950 | 963 | 974 |
| 09 | 988 | 1008 | 1009 | 1007 | 1010 | 1012 | 1013 | 1016 | 1022 | 1032 | 1032 | 1045 |
| 10 | 1046 | 1042 | 1043 | 1044 | 1054 | 1054 | 1048 | 1048 | 1050 | 1045 | 1046 | 1045 |
| 11 | 1043 | 1042 | 1040 | 1041 | 1038 | 1037 | 1041 | 1056 | 1068 | 1064 | 1066 | 1071 |
| 12 | 1071 | 1072 | 1080 | 1086 | 1088 | 1092 | 1093 | 1094 | 1113 | 1130 | 1156 | 1127 |
| 13 | 1136 | 1139 | 1136 | 1137 | 1158 | 1132 | 1131 | 1169 | 1187 | 1204 | 1218 | 1220 |
| 14 | 1242 | 1243 | 1253 | 1282 | 1312 | 1338 | 1348 | 1366 | 1388 | 1405 | 1421 | 1445 |
| 15 | 1476 | 1446 | 1448 | 1454 | 1458 | 1459 | 1464 | 1465 | 1467 | 1475 | 1475 | 1478 |
| 16 | 1506 | 1504 | 1510 | 1506 | 1508 | 1499 | 1502 | 1499 | 1506 | 1499 | 1504 | 1502 |
| 17 | 1496 | 1498 | 1494 | 1492 | 1490 | 1506 | 1503 | 1506 | 1503 | 1499 | 1497 | 1499 |
| 18 | 1522 | 1448 | 1447 | 1448 | 1444 | 1484 | 1481 | 1487 | 1470 | 1508 | 1452 | 1456 |
| 19 | 1382 | 1376 | 1350 | 1330 | 1340 | 1442 | 1422 | 1418 | 1412 | 1400 | 1388 | 1378 |
| 20 | 1075 | 1014 | 1000 | 958 | 914 | 850 | 810 | 754 | 706 | 630 | 654 | 614 |

C22

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 27- 6-1972 (DAY NO 179) | | | | | | | | | | | |
|-------|------------------------------|--------|-----|--------|-----|-----|-----|--------|-----|--------|--------|--------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 606 | 634*07 | 612 | 490 | 562 | 586 | 548 | 557*36 | 472 | 378*44 | 468*51 | 582*53 |
| 01 | 620 | 466*06 | 587 | 500*17 | 600 | 630 | 586 | 648 | 682 | 717 | 732 | 838 |
| 02 | 796 | 785 | 761 | 764 | 769 | 782 | 823 | 823 | 820 | 824 | 828 | 850 |
| 03 | 850 | 862 | 850 | 884 | 826 | 846 | 823 | 828 | 854 | 852 | 858 | 862 |
| 04 | 800 | 793 | 837 | 825 | 870 | 830 | 820 | 802 | 789 | 778 | 770 | 709 |
| 05 | 753 | 747 | 738 | 738 | 732 | 727 | 722 | 718 | 714 | 712 | 710 | 734 |
| 06 | 710 | 710 | 710 | 710 | 711 | 712 | 718 | 716 | 717 | 722 | 726 | 588 |
| 07 | 744 | 757 | 776 | 792 | 782 | 739 | 718 | 691 | 658 | 633 | 610 | 588 |
| 08 | 568 | 547 | 527 | 509 | 491 | 474 | 460 | 443 | 434 | 424 | 417 | 401 |
| 09 | 388 | 372 | 360 | 347 | 336 | 320 | 308 | 294 | 285 | 274 | 264 | 254 |
| 10 | 248 | 244 | 238 | 237 | 233 | 222 | 214 | 207 | 201 | 205 | 208 | 258 |
| 11 | 254 | 258 | 257 | 257 | 259 | 259 | 261 | 261 | 262 | 261 | 260 | 208 |
| 12 | 206 | 196 | 246 | 243 | 239 | 233 | 230 | 224 | 218 | 216 | 212 | 166 |
| 13 | 191 | 190 | 193 | 191 | 188 | 192 | 188 | 184 | 180 | 178 | 169 | 134 |
| 14 | 161 | 155 | 152 | 150 | 147 | 146 | 144 | 144 | 142 | 139 | 136 | 134 |
| 15 | 132 | 130 | 126 | 124 | 117 | 104 | 97 | 99 | 98 | 98 | 99 | 98 |

RRS DISCOVERY CRUISE NO 47 DATE 28- 5-1972 (DAY NO 180)
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-----|-----|
| 00 | | | | | | | | | | | | |
| 01 | | | | | | | | | | | | |
| 02 | | | | | | | | | | | | |
| 03 | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | |
| 05 | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | |
| 08 | 119 | 122 | 116 | 114 | 103 | 98 | 126 | 90 | 71*38 | 79*43 | 126 | 126 |
| 09 | | | | | | | 100 | | | | 96 | |
| 10 | | | | | | | 116 | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 92 | 98 | 100 | 102 | 110 | 114 | 106 | 107 | 106 | 82 | 78 | 79 |
| 22 | | | 116 | 116 | 116 | 116 | 115 | 114 | 114 | 114 | 116 | 112 |
| 23 | | | | | | | | | | | 112 | 107 |

RRS DISCOVERY CRUISE NO 47 DATE 29- 6-1972 (DAY NO 181)
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 00 | | | | | | | | | | | | |
| 01 | | | | | | | | | | | | |
| 02 | | | | | | | | | | | | |
| 03 | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | |
| 05 | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 94 | 95 | 86 | 87 | 89 | 90 | 91 | 91 | 91 | 92 | 92 | 94 |
| 18 | 93 | 94 | 94 | 93 | 96 | 96 | 96 | 94 | 92 | 93 | 94 | 93 |
| 19 | 98 | 98 | 99 | 96 | 99 | 97 | 97 | 98 | 98 | 98 | 98 | 98 |
| 20 | 100 | 100 | 100 | 98 | 100 | 99 | 100 | 100 | 100 | 100 | 100 | 100 |
| 21 | 102 | 102 | 102 | 100 | 102 | 100 | 102 | 100 | 100 | 101 | 101 | 102 |
| 22 | 101 | 102 | 101 | 102 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| 23 | 104 | 104 | 104 | 102 | 102 | 102 | 102 | 102 | 102 | 103 | 104 | 104 |
| | | | | 105 | 106 | 106 | 106 | 106 | 107 | 108 | 108 | 108 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 30-6-1972 (DAY NO 182) | | | | |
|-------|-----------------------------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 108 | 108 | 108 | 109 | 110 |
| 01 | 110 | 110 | 114 | 112 | 118 |
| 02 | 133 | 137 | 152 | 146 | 184 |
| 03 | 285 | 303 | 330 | 368 | 485 |
| 04 | 614 | 620 | 663 | 689 | 830 |
| 05 | 952 | 960 | 970 | 983 | 1023 |
| 06 | 1109 | 1124 | 1144 | 1157 | 1177 |
| 07 | 1246 | 1253 | 1260 | 1264 | 1272 |
| 08 | 1326 | 1330 | 1334 | 1338 | 1343 |
| 09 | 1379 | 1382 | 1386 | 1390 | 1393 |
| 10 | 1419 | 1423 | 1425 | 1427 | 1430 |
| 11 | 1448 | 1454 | 1456 | 1458 | 1460 |
| 12 | 1470 | 1470 | 1472 | 1472 | 1475 |
| 13 | 1483 | 1486 | 1488 | 1489 | 1498 |
| 14 | 1512 | 1514 | 1514 | 1514 | 1518 |
| 15 | 1525 | 1527 | 1527 | 1528 | 1530 |
| 16 | 1535 | 1535 | 1536 | 1536 | 1536 |
| 17 | 1536 | 1536 | 1536 | 1536 | 1536 |
| 18 | 1534 | 1534 | 1534 | 1534 | 1534 |
| 19 | 1530 | 1530 | 1530 | 1530 | 1532 |
| 20 | 1531 | 1530 | 1529 | 1530 | 1534 |
| 21 | 1538 | 1538 | 1539 | 1538 | 1542 |
| 22 | 1549 | 1550 | 1551 | 1552 | 1543 |
| 23 | 1560 | 1561 | 1562 | 1562 | 1556 |

| HOURS | DATE 1-7-1972 (DAY NO 183) | | | | |
|-------|----------------------------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 1530 | 1492 | 1485 | 1493 | 1428 |
| 01 | 1733 | 1700 | 1663 | 1642 | 1608 |
| 02 | 304 | 264 | 254 | 248 | 240 |
| 03 | 180 | 176 | 172 | 169 | 166 |
| 04 | 148 | 144 | 136 | 134 | 132 |
| 05 | 113 | 111 | 109 | 107 | 106 |
| 06 | 92 | 91 | 88 | 80 | 81 |
| 07 | 77 | 77 | 78 | 82 | 83 |
| 08 | 80 | 78 | 78 | 76 | 76 |
| 09 | 64 | 65 | 65 | 69 | 70 |
| 10 | 69 | 69 | 69 | 68 | 68 |
| 11 | 66 | 67 | 65 | 66 | 66 |
| 12 | 66 | 66 | 65 | 66 | 68 |
| 13 | 66 | 66 | 65 | 65 | 68 |
| 14 | 66 | 66 | 65 | 65 | 65 |
| 15 | 63 | 64 | 63 | 64 | 64 |
| 16 | 64 | 64 | 62 | 63 | 64 |
| 17 | 64 | 65 | 66 | 66 | 66 |
| 18 | 65 | 65 | 66 | 66 | 66 |
| 19 | 70 | 70 | 69 | 70 | 72 |
| 20 | 71 | 70 | 69 | 68 | 65 |
| 21 | 65 | 65 | 66 | 66 | 63 |
| 22 | 62 | 61 | 60 | 60 | 64 |
| 23 | 68 | 68 | 67 | 66 | 62 |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC

| HOURS | DATE 30-6-1972 (DAY NO 182) | | | | |
|-------|-----------------------------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 110 | 110 | 110 | 110 | 110 |
| 01 | 120 | 120 | 120 | 123 | 128 |
| 02 | 203 | 217 | 245 | 246 | 265 |
| 03 | 512 | 517 | 560 | 536 | 587 |
| 04 | 923 | 940 | 923 | 906 | 940 |
| 05 | 1084 | 1090 | 1084 | 1056 | 1090 |
| 06 | 1220 | 1233 | 1233 | 1220 | 1245 |
| 07 | 1300 | 1312 | 1312 | 1304 | 1319 |
| 08 | 1361 | 1370 | 1370 | 1364 | 1374 |
| 09 | 1412 | 1412 | 1412 | 1408 | 1415 |
| 10 | 1442 | 1442 | 1446 | 1444 | 1449 |
| 11 | 1468 | 1472 | 1472 | 1470 | 1469 |
| 12 | 1479 | 1483 | 1483 | 1483 | 1484 |
| 13 | 1506 | 1510 | 1510 | 1508 | 1510 |
| 14 | 1521 | 1524 | 1524 | 1522 | 1525 |
| 15 | 1532 | 1534 | 1534 | 1533 | 1534 |
| 16 | 1536 | 1536 | 1536 | 1536 | 1535 |
| 17 | 1550 | 1550 | 1550 | 1550 | 1555 |
| 18 | 1532 | 1532 | 1532 | 1532 | 1534 |
| 19 | 1532 | 1532 | 1532 | 1532 | 1532 |
| 20 | 1534 | 1534 | 1534 | 1534 | 1534 |
| 21 | 1543 | 1543 | 1543 | 1544 | 1546 |
| 22 | 1558 | 1559 | 1559 | 1549 | 1560 |
| 23 | 1558 | 1550 | 1544 | 1550 | 1538 |

| HOURS | DATE 1-7-1972 (DAY NO 183) | | | | |
|-------|----------------------------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 |
| 00 | 1295 | 1382 | 1485 | 1493 | 1428 |
| 01 | 958 | 996 | 1063 | 1042 | 1008 |
| 02 | 514 | 594 | 672 | 645 | 626 |
| 03 | 210 | 239 | 254 | 248 | 240 |
| 04 | 160 | 165 | 172 | 169 | 166 |
| 05 | 125 | 129 | 136 | 134 | 132 |
| 06 | 100 | 103 | 109 | 107 | 106 |
| 07 | 79 | 80 | 88 | 80 | 81 |
| 08 | 82 | 83 | 78 | 82 | 83 |
| 09 | 70 | 76 | 75 | 76 | 76 |
| 10 | 68 | 66 | 65 | 69 | 68 |
| 11 | 68 | 68 | 65 | 66 | 66 |
| 12 | 67 | 67 | 65 | 66 | 66 |
| 13 | 66 | 68 | 65 | 65 | 65 |
| 14 | 65 | 65 | 65 | 65 | 65 |
| 15 | 64 | 64 | 63 | 64 | 64 |
| 16 | 64 | 64 | 62 | 63 | 64 |
| 17 | 64 | 64 | 66 | 66 | 66 |
| 18 | 67 | 66 | 66 | 66 | 66 |
| 19 | 71 | 72 | 69 | 70 | 70 |
| 20 | 65 | 65 | 66 | 68 | 66 |
| 21 | 62 | 63 | 66 | 66 | 63 |
| 22 | 65 | 64 | 60 | 60 | 64 |
| 23 | 61 | 62 | 61 | 60 | 62 |

| RBS DISCOVERY CRUISE NO 47 | | | | | | | | | | | | |
|--|----|----|----|----|----|----|----|----|----|----|----|----|
| DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED VELOCITY OF 800 FMS/SEC | | | | | | | | | | | | |
| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 56 | 56 | 55 | 56 | 57 | 56 | 56 | 57 | 57 | 56 | 55 | 54 |
| 01 | 55 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 52 | 52 |
| 02 | 52 | 52 | 52 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 55 | 54 |
| 03 | 52 | 52 | 52 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 55 | 54 |
| 04 | 54 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 55 | 54 |
| 05 | 52 | 52 | 51 | 51 | 51 | 50 | 49 | 50 | 50 | 51 | 52 | 51 |
| 06 | 49 | 47 | 49 | 48 | 49 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 07 | 47 | 47 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 08 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 09 | 45 | 45 | 46 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 |
| 10 | 59 | 59 | 59 | 52 | 48 | 45 | 45 | 45 | 46 | 50 | 53 | 56 |
| 11 | 64 | 59 | 51 | 52 | 42 | 49 | 50 | 48 | 47 | 46 | 46 | 46 |
| 12 | 45 | 44 | 43 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 38 | 38 |
| 13 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 35 | 35 | 35 | 35 | 35 |
| 14 | 34 | 34 | 33 | 33 | 33 | 33 | 33 | 33 | 32 | 31 | 30 | 29 |
| 15 | 29 | 29 | 29 | 29 | 28 | 28 | 27 | 28 | 27 | 27 | 24 | 23 |
| 16 | 22 | 22 | 20 | 21 | 21 | 22 | 22 | 20 | 21 | 22 | 22 | 18 |
| 17 | 22 | 22 | 22 | 21 | 21 | 22 | 22 | 20 | 21 | 22 | 22 | 18 |
| 18 | 29 | 28 | 28 | 27 | 27 | 29 | 29 | 20 | 20 | 20 | 19 | 18 |
| 19 | 14 | 14 | 14 | 13 | 13 | 16 | 14 | 17 | 13 | 13 | 11 | 11 |
| 20 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 19 | 17 | 11 | 12 |
| 21 | 14 | 14 | 14 | 13 | 13 | 13 | 13 | 15 | 13 | 13 | 11 | 12 |
| 22 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 19 | 17 | 11 | 12 |
| 23 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 19 | 17 | 11 | 12 |

SECTION D

Tables of (a) Magnetic Anomaly

(b) Corrected Depth in Fathoms

(c) Corrected Depth in Metres

RRS DISCOVERY CRUISE NO. 47
MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF MINUTES

DATE 10- 6-1972 (DAY NO 162)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|-------|------|------|--------|------|--------|------|------|------|------|------|
| 00 | -132 | | | -123 | -126 | -127 | -128 | -133 | -134 | -137 | -138 | -139 |
| 01 | -116 | | -129 | -143 | -141 | -143 | -143 | -140 | -138 | -136 | -135 | -132 |
| 02 | -120 | | -117 | -125 | -124 | -122 | -120 | -119 | -118 | -118 | -119 | -116 |
| 03 | -102 | | -121 | -118 | -119 | -117 | -116 | -114 | -119 | -108 | -110 | -121 |
| 04 | -61 | | -99 | -96 | -93 | -88 | -87 | -84 | -81 | -78 | -74 | -67 |
| 05 | -31 | | -56 | -53 | -52 | -43 | -41 | -49 | -52 | -52 | -53 | -31 |
| 06 | -57 | | -34 | -37 | -39 | -55 | -46 | -59 | -60 | -61 | -64 | -54 |
| 07 | -64 | | -55 | -55 | -53 | -78 | -79 | -83 | -84 | -86 | -84 | -67 |
| 08 | -88 | | -70 | -72 | -75 | -92 | -91 | -90 | -90 | -88 | -88 | -86 |
| 09 | -90 | | -91 | -90 | -91 | -92 | -96 | -90 | -92 | -92 | -91 | -89 |
| 10 | -98 | | -90 | -94 | -95 | -88 | -98 | -106 | -92 | -92 | -91 | -86 |
| 11 | -95 | | -61 | -80 | -63*18 | -84 | -82 | -77 | -77 | -89 | -85 | -78 |
| 12 | -23 | 28*06 | -23 | -52 | -39 | -60 | -73*28 | -23 | -35 | -49 | -11 | -76 |

RRS DISCOVERY CRUISE NO. 47
MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF MINUTES

DATE 11- 6-1972 (DAY NO 163)

D -

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|--------|------|---------|---------|------|--------|--------|
| 00 | -58 | -70 | -66 | -68 | -64 | -65 | -58 | -39 | -55 | -52 | -44 | -48 |
| 01 | -78 | -44 | -39 | -43 | -47 | -41 | -51 | -44 | -28*38 | -47 | -40 | -30*57 |
| 02 | -110 | -86 | -113 | -109 | -104 | -134 | -112 | -117 | -128*39 | -140 | -128 | -118 |
| 03 | -119 | -114 | -121 | -107 | -85 | -90*27 | -83 | -117 | -73 | -75 | -82*51 | -43 |
| 04 | -23 | -39 | -34 | -17 | -11 | -69 | -64 | -150*33 | -40 | -28 | 55 | 10 |
| 05 | 122 | 125 | 125 | 124 | 103 | 105 | 112 | 125 | 124 | 93 | 104 | 112 |
| 06 | 95 | 91 | 86 | 82 | 78 | 123 | 122 | 119 | 116 | 111 | 104 | 99 |
| 07 | -24 | -40 | -52 | -65 | -77 | -87 | -98 | -107 | -115 | -120 | -122 | -88 |
| 08 | -138 | -144 | -151 | -164 | -162 | -168 | -173 | -177 | -180 | -181 | -181 | -129 |
| 09 | -99 | -176 | -171 | -164 | -156 | -140 | -136 | -127 | -118 | -110 | -105 | -100 |
| 10 | -128 | -129 | -131 | -135 | -140 | -146 | -150 | -153 | -155 | -157 | -159 | -127 |
| 11 | -85 | -76 | -65 | -56 | -46 | -37 | -28 | -19 | -13 | -10 | -10 | -15 |
| 12 | 19 | 16 | 17 | 19 | 18 | 37 | 39 | 19 | 18 | 4 | 3 | 8 |
| 13 | 119 | 127 | 123 | 127 | 132 | 139 | 146 | 153 | 163 | 172 | 183 | 191 |
| 14 | 90 | 87 | 87 | 84 | 86 | 89 | 89 | 94 | 98 | 101 | 108 | 114 |
| 15 | 148 | 153 | 160 | 166 | 174 | 183 | 192 | 201 | 207 | 213 | 220 | 223 |
| 16 | 222 | 237 | 242 | 249 | 254 | 255 | 252 | 246 | 245 | 233 | 226 | 218 |
| 17 | 219 | 218 | 219 | 206 | 186 | 198 | 199 | 182 | 164 | 140 | 107 | 78 |
| 18 | 259 | 252 | 285 | 217 | 111 | 120 | 102 | 173 | 166 | 170 | 167 | 73 |

RRS DISCOVERY CRUISE NO. 47
MAGNETIC ANOMALY IN GAMMAS

DATE 12- 6-1972 (DAY NO 164)

DATE 13- 6-1972 (DAY NO 165)

RRS DISCOVERY CRUISE NO. 47
MAGNETIC ANOMALY IN GAMMAS

DATE 12- 6-1972 (DAY NO 164)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| 00 | 86 | 89 | 78 | 66 | 53 | 45 | 47 | 53 | 60 | 63 | 65 | 64 |
| 01 | 67 | 77 | 95 | 117 | 211 | 300 | 318* | 181 | 172 | 206 | 223 | 248 |
| 02 | 241 | 231 | 248 | 268 | 118 | 316 | 358 | 375 | 402 | 362 | 315 | 306 |
| 03 | 235 | 254 | 170 | 218 | 114 | 337 | 133 | 327 | 4 | 6 | 12 | 17 |
| 04 | 338 | 214 | 104 | 113 | 113 | 271 | 33 | 32 | 31 | 25 | 20 | 17 |
| 05 | 138 | 34 | 34 | 39 | 41 | 43 | 44 | 45 | 48 | 53 | 48 | 43 |
| 06 | 182 | 97 | 112 | 129 | 147 | 162 | 174 | 176 | 174 | 195 | 196 | 194 |
| 07 | 220 | 187 | 186 | 183 | 183 | 179 | 177 | 176 | 174 | 171 | 169 | 165 |
| 08 | 160 | 157 | 149 | 141 | 132 | 122 | 115 | 106 | 102 | 99 | 101 | 103 |
| 09 | 110 | 116 | 124 | 131 | 142 | 147 | 156 | 162 | 165 | 170 | 170 | 170 |
| 10 | 168 | 166 | 162 | 155 | 149 | 141 | 133 | 128 | 127 | 132 | 141 | 153 |
| 11 | 188 | 180 | 193 | 205 | 215 | 223 | 225 | 222 | 214 | 202 | 189 | 175 |
| 12 | 168 | 149 | 134 | 113 | 87 | 51 | 13 | 24 | 60 | 92 | 116 | 125 |
| 13 | 162 | 95 | 65 | 17 | 8 | 41 | 68 | 21 | 110 | 124 | 132 | 134 |
| 14 | 133 | 124 | 110 | 92 | 70 | 48 | 24 | 33 | 117 | 35 | 52 | 72 |
| 15 | 91 | 114 | 138 | 166 | 191 | 212 | 224 | 226 | 218 | 205 | 182 | 151 |
| 16 | 115 | 173 | 27 | 24 | 76 | 124 | 162 | 193 | 237 | 225 | 233 | 237 |
| 17 | 115 | 243 | 27 | 24 | 76 | 124 | 162 | 193 | 237 | 225 | 233 | 237 |
| 18 | 242 | 2 | 240 | 233 | 222 | 205 | 185 | 159 | 135 | 118 | 102 | 84 |
| 19 | 127 | 49 | 82 | 114 | 140 | 157 | 160 | 149 | 135 | 118 | 102 | 84 |
| 20 | 67 | 52 | 42 | 32 | 25 | 18 | 14 | 2 | 11 | 31 | 55 | 82 |
| 21 | 109 | 132 | 153 | 169 | 181 | 189 | 192 | 188 | 177 | 161 | 141 | 119 |
| 22 | 95 | 100 | 142 | 112 | 117 | 146 | 167 | 153 | 149 | 134 | 119 | 98 |
| 23 | 98 | 100 | 102 | 107 | 119 | 140 | 164 | 193 | 219 | 235 | 240 | 236 |

D2

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 00 | 229 | 221 | 216 | 213 | 210 | 206 | 199 | 189 | 174 | 156 | 134 | 109 |
| 01 | 54 | 58 | 99 | 119 | 139 | 159 | 176 | 198 | 212 | 234 | 254 | 31 |
| 02 | 278 | 305 | 310 | 310 | 309 | 303 | 294 | 278 | 258 | 237 | 216 | 187 |
| 03 | 178 | 162 | 147 | 129 | 110 | 94 | 77 | 62 | 47 | 36 | 26 | 18 |
| 04 | 137 | 111 | 10 | 114 | 11 | 12 | 12 | 15 | 15 | 19 | 24 | 32 |
| 05 | 333 | 44 | 49 | 50 | 58 | 67 | 62 | 65 | 65 | 65 | 65 | 60 |
| 06 | 73 | 47 | 28 | 10 | 8 | 12 | 43 | 56 | 66 | 77 | 77 | 77 |
| 07 | 39 | 44 | 23 | 16 | 10 | 20 | 43 | 32 | 20 | 17 | 11 | 46 |
| 08 | 75 | 77 | 73 | 68 | 60 | 50 | 43 | 32 | 36 | 40 | 43 | 58 |
| 09 | 50 | 54 | 116 | 60 | 63 | 66 | 66 | 64 | 66 | 64 | 62 | 64 |
| 10 | 56 | 53 | 52 | 53 | 56 | 65 | 74 | 85 | 88 | 106 | 117 | 119 |
| 11 | 120 | 120 | 117 | 111 | 104 | 95 | 87 | 76 | 68 | 61 | 57 | 54 |
| 12 | 119 | 120 | 122 | 126 | 137 | 146 | 151 | 159 | 168 | 169 | 167 | 164 |
| 13 | 159 | 154 | 148 | 145 | 141 | 136 | 137 | 134 | 124 | 135 | 146 | 156 |
| 14 | 164 | 168 | 166 | 158 | 148 | 136 | 120 | 104 | 188 | 168 | 147 | 125 |
| 15 | 30 | 14 | 26 | 35 | 40 | 46 | 50 | 59 | 71 | 74 | 78 | 78 |
| 16 | 80 | 80 | 84 | 89 | 88 | 91 | 95 | 100 | 103 | 106 | 104 | 102 |
| 17 | 80 | 80 | 82 | 79 | 75 | 73 | 70 | 70 | 65 | 66 | 66 | 69 |
| 18 | 82 | 82 | 82 | 84 | 85 | 84 | 82 | 80 | 71 | 70 | 68 | 64 |
| 19 | 85 | 85 | 87 | 84 | 81 | 74 | 68 | 60 | 45 | 59 | 64 | 66 |
| 20 | 96 | 97 | 98 | 95 | 91 | 84 | 78 | 70 | 49 | 59 | 64 | 69 |
| 21 | 99 | 97 | 98 | 94 | 87 | 79 | 70 | 60 | 49 | 59 | 64 | 66 |
| 22 | 98 | 95 | 93 | 89 | 81 | 73 | 64 | 55 | 49 | 44 | 49 | 49 |
| 23 | 98 | 95 | 93 | 89 | 81 | 73 | 64 | 55 | 49 | 44 | 49 | 49 |

RRS DISCOVERY CRUISE NO.47
MAGNETIC ANOMALY IN GAMMAS

DATE 14- 6-1972 (DAY NO 166)

| HOURS | AFTER THE REMOVAL OF IGRF MINUTES | | | | | |
|-------|-----------------------------------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | -84 | -77 | -73 | -71 | -70 | -69 |
| 01 | -118 | -121 | -125 | -124 | -128 | -130 |
| 02 | -125 | -125 | -123 | -124 | -121 | -120 |
| 03 | -91 | -82 | -74 | -65 | -54 | -39 |
| 04 | -60 | -70 | -78 | -85 | -92 | -100 |
| 05 | -128 | -133 | -137 | -141 | -143 | -146 |
| 06 | -133 | -129 | -128 | -125 | -122 | -119 |
| 07 | -138 | -86 | -85 | -85 | -86 | -99 |
| 08 | -105 | -96 | -83 | -63 | -40 | 74 |
| 09 | -157 | -157 | -149 | -131 | -109 | 33 |
| 10 | -45 | -36 | -16 | 17 | 67 | 12 |
| 11 | 738 | 801 | 848 | 863 | 846 | 470 |
| 12 | 265 | 188 | 119 | 60 | 9 | 595 |
| 13 | 211 | -88 | -65 | -46 | -34 | -116 |
| 14 | -69 | -65 | -59 | -54 | -48 | -32 |
| 15 | -90 | -107 | -125 | -142 | -154 | -127 |
| 16 | -102 | -97 | -88 | -77 | -66 | -34 |
| 17 | -56 | -73 | -92 | -114 | -137 | -171 |
| 18 | -167 | -161 | -161 | -164 | -160 | -187 |
| 19 | -56 | 0 | 12 | 18 | 23 | 6 |
| 20 | -81 | -62 | -37 | -9 | -96 | -119 |
| 21 | -88 | 118 | 165 | 223 | 289 | 446 |
| 22 | | | | | | |
| 23 | | | | | | |

| HOURS | AFTER THE REMOVAL OF IGRF MINUTES | | |
|-------|-----------------------------------|------|------|
| | 30 | 35 | 40 |
| 00 | -69 | -68 | -69 |
| 01 | -83 | -89 | -100 |
| 02 | -120 | -118 | -129 |
| 03 | -130 | -136 | -139 |
| 04 | -100 | -102 | -107 |
| 05 | -146 | -147 | -146 |
| 06 | -116 | -110 | -105 |
| 07 | -93 | -95 | -103 |
| 08 | 9 | 38 | 106 |
| 09 | 57 | 33 | 110 |
| 10 | 250 | 364 | 617 |
| 11 | 742 | 672 | 434 |
| 12 | 66 | 96 | -130 |
| 13 | -66 | -43 | -132 |
| 14 | -35 | -43 | -60 |
| 15 | -35 | -30 | -54 |
| 16 | -151 | -132 | -119 |
| 17 | -42 | -34 | -29 |
| 18 | -160 | -171 | -177 |
| 19 | -132 | -111 | -86 |
| 20 | 20 | 15 | -5 |
| 21 | -112 | -117 | -117 |
| 22 | -43 | -149 | -148 |
| 23 | 446 | 542 | 824 |

| HOURS | AFTER THE REMOVAL OF IGRF MINUTES | | |
|-------|-----------------------------------|------|------|
| | 45 | 50 | 55 |
| 00 | -68 | -69 | -71 |
| 01 | -100 | -108 | -113 |
| 02 | -112 | -128 | -126 |
| 03 | -39 | -107 | -99 |
| 04 | -111 | -44 | -51 |
| 05 | -143 | -116 | -122 |
| 06 | -101 | -141 | -137 |
| 07 | -103 | -95 | -137 |
| 08 | -107 | -107 | -90 |
| 09 | 132 | 132 | 148 |
| 10 | 554 | 617 | 140 |
| 11 | 518 | 434 | 675 |
| 12 | -130 | -132 | 349 |
| 13 | -60 | -132 | -127 |
| 14 | -40 | -54 | -70 |
| 15 | -119 | -119 | -71 |
| 16 | -28 | -29 | -109 |
| 17 | -180 | -177 | -40 |
| 18 | -66 | -41 | -173 |
| 19 | -5 | -41 | -25 |
| 20 | -117 | -22 | -39 |
| 21 | -148 | -109 | -96 |
| 22 | 824 | 1005 | 65 |
| 23 | | | 1173 |

D 3

RRS DISCOVERY CRUISE NO.47
MAGNETIC ANOMALY IN GAMMAS

DATE 15- 6-1972 (DAY NO 167)

| HOURS | AFTER THE REMOVAL OF IGRF MINUTES | | | | | |
|-------|-----------------------------------|---------|---------|--------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | 1268 | 1270 | 1198 | 1069 | 945 | 820 |
| 01 | 543 | 630 | 711 | 783 | 836 | 870 |
| 02 | 670 | 563 | 465 | 369 | 276 | 191 |
| 03 | -106 | -109 | -99 | -96 | -100 | -105 |
| 04 | 646 | 655 | 650 | 33 | 134 | 270 |
| 05 | 405 | 381 | 359 | 341 | 327 | 581 |
| 06 | 170 | 128 | 378 | 19 | -37 | 305 |
| 07 | -199 | -190 | -186 | 177 | -164 | -135 |
| 08 | 37 | 80 | 124 | 157 | -179 | -144 |
| 09 | 180 | 157 | 128 | 115 | 146 | 217 |
| 10 | 511 | 542 | 546 | 454 | 611 | 279 |
| 11 | 414 | 426 | 447 | 454 | 408 | 614 |
| 12 | 1003 | 1160 | 1345*12 | 1338 | 1248 | 314 |
| 13 | 249 | 1260 | 238 | 188 | 134 | 1066 |
| 14 | -113 | -19 | -23 | -8 | 54 | 150 |
| 15 | -276 | -135 | -157 | -151 | -124 | 124 |
| 16 | 4 | 13 | 83 | 211 | 108 | 166 |
| 17 | -126 | 13 | 54 | 18 | 125 | 150 |
| 18 | -126 | -46 | 83 | 211 | 125 | 177 |
| 19 | -1 | -46 | -54 | 18 | 165 | 150 |
| 20 | -328 | -347*04 | -144 | -242 | -211 | 280 |
| 21 | -6 | 42 | -270 | -237 | -199 | -242 |
| 22 | 724 | 886*03 | 463 | 294*13 | 147 | -199 |
| 23 | | | | | 514 | -410 |

| HOURS | AFTER THE REMOVAL OF IGRF MINUTES | | |
|-------|-----------------------------------|------|---------|
| | 30 | 35 | 40 |
| 00 | 709 | 624 | 538 |
| 01 | 895 | 921 | 938 |
| 02 | 121 | 62 | 13 |
| 03 | -110 | -112 | -114 |
| 04 | 391 | 510 | 547 |
| 05 | 545 | 285 | 477 |
| 06 | 300 | 170 | 269 |
| 07 | -135 | -170 | -197 |
| 08 | -117 | -92 | -65 |
| 09 | 219 | 233 | 238 |
| 10 | 279 | 336 | 374 |
| 11 | 314 | 523 | 429 |
| 12 | 314 | 346 | 429 |
| 13 | 1066 | 928 | 438 |
| 14 | 150 | 144 | 527 |
| 15 | 177 | 150 | -43 |
| 16 | 190 | 150 | 33 |
| 17 | 613*30 | 177 | 35 |
| 18 | 238 | 280 | 35 |
| 19 | -202 | -242 | -178*47 |
| 20 | -202 | -199 | -125 |
| 21 | -444*31 | -410 | -59 |
| 22 | 746*39 | 505 | -71*47 |
| 23 | | | -11*47 |

| HOURS | AFTER THE REMOVAL OF IGRF MINUTES | | |
|-------|-----------------------------------|--------|--------|
| | 45 | 50 | 55 |
| 00 | 384 | 325*49 | 451 |
| 01 | 921 | 861 | 773 |
| 02 | -27 | -61 | -86 |
| 03 | -173 | -107 | -98 |
| 04 | 452 | 605 | 626 |
| 05 | 253 | 435 | 421 |
| 06 | -211 | 235 | 206 |
| 07 | -43 | -213 | -205 |
| 08 | 201 | -23 | 1 |
| 09 | 233 | 219 | 201 |
| 10 | 423 | 462 | 478 |
| 11 | 389 | 389 | 390 |
| 12 | 582 | 744 | 879 |
| 13 | 527 | 346 | 257 |
| 14 | -43 | 49 | 46 |
| 15 | 33 | -43 | -93 |
| 16 | 35 | 412*48 | 344 |
| 17 | -178*47 | -40 | -39 |
| 18 | 125 | -150 | -97*57 |
| 19 | -254 | -152 | 147 |
| 20 | -59 | -264 | -219 |
| 21 | -71 | -9 | -374 |
| 22 | -11*47 | 194 | 374 |
| 23 | | 59*51 | 43 |

RRS DISCOVERY CRUISE NO. 47
MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF MINUTES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|---------|---------|--------|---------|---------|--------|---------|----------|---------|---------|---------|--------|
| 00 | 203 | 265 | 156*12 | 185*16 | 105 | 56 | -82 | -123**33 | -199 | -308 | -185*51 | -213 |
| 01 | -199 | -182*03 | -187 | -128 | -193 | -151 | -170 | -173**37 | -151 | -38 | 45**49 | -64 |
| 02 | -66 | -90 | -159 | -100*16 | -26 | -19 | 21 | 76 | 90 | 51 | 69 | 139 |
| 03 | 125 | 59*07 | 374 | 386 | 178 | 396 | 329**29 | 670**33 | 50 | -33**43 | 415 | 645*57 |
| 04 | 635*01 | 239*09 | 271*08 | 485*13 | 175 | 231*27 | -65**32 | 97 | 359**42 | 278 | 367*52 | 172*56 |
| 05 | 305*00 | 271*08 | 408*12 | -10*16 | 197*22 | 170*26 | 184 | 219 | 473**42 | 266 | 367 | 411 |
| 06 | 395 | 349 | 271*08 | 379 | 291 | 164*28 | 164 | 203 | 220 | 265 | 350 | 271*54 |
| 07 | 654*02 | 476 | 221 | 227*14 | -165*18 | 562*24 | 317*32 | 272**36 | 220 | 133 | 355*43 | 128 |
| 08 | -39 | 256 | 406*12 | 367 | -106*22 | 57 | 581 | 266**35 | 114 | -33**45 | -67*52 | -98 |
| 09 | 451*02 | -69*06 | 106 | -120*16 | -43 | 37*26 | -106 | 2 | 167 | 204**46 | -44*52 | -20 |
| 10 | -58 | | 114 | 265*16 | 175 | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | -179*58 | 26 | 107 | 468 | 130 | 120 | 135 | 116 | 123 | 141 | 121*52 | 45 |
| 22 | 255 | 258 | 259 | 283 | 296 | 310 | 334 | 343 | 352 | 359 | 198 | 234 |
| 23 | | | | | | | | | | | 368 | 283 |

D 4

RRS DISCOVERY CRUISE NO. 47
MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF MINUTES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|-----|------|------|------|------|---------|------|------|
| 00 | -8 | -106 | 98 | 340 | 393 | 396 | 387 | 365 | 331 | 289 | 247 | 212 |
| 01 | 171 | 138 | 115 | 108 | 116 | 126 | 119 | 110 | 105 | 101 | 93 | 84 |
| 02 | -4 | 67 | 156 | 46 | 36 | -32 | -38 | -42 | -42 | -43 | -40 | -35 |
| 03 | -29 | -21 | -14 | -21 | -22 | 1 | 2 | -2 | -3 | -7 | -8 | -11 |
| 04 | -16 | -18 | -20 | -21 | -28 | -25 | -20 | -15 | -18 | -15 | -16 | -13 |
| 05 | -13 | 0 | -6 | -13 | -16 | -23 | -23 | -36 | -42 | -50 | -50 | -61 |
| 06 | 2 | 66 | 69 | 69 | 68 | -72 | -69 | -73 | -72 | -73 | -72 | -70 |
| 07 | -65 | -58 | -55 | -66 | -70 | -72 | -71 | -71 | -72 | -73 | -72 | -71 |
| 08 | -67 | -58 | -56 | -51 | -43 | -37 | -37 | -35 | -32 | -32 | -30 | -30 |
| 09 | -59 | -31 | -32 | -34 | -36 | -39 | -49 | -53 | -51 | -52 | -55 | -57 |
| 10 | -27 | -70 | -70 | -68 | -65 | -60 | -56 | -53 | -54 | -52 | -48 | -48 |
| 11 | -54 | -55 | -52 | -55 | -53 | -50 | -60 | -58 | -50 | -56 | -54 | -53 |
| 12 | -54 | -59 | -54 | -56 | -53 | -53 | -60 | -61 | -61 | -60 | -59 | -59 |
| 13 | -64 | -45 | -53 | -57 | -49 | -41 | -51 | -54 | -55 | -52 | -56 | -59 |
| 14 | 0 | 5 | 15 | 27 | 37 | 41 | 35 | 29 | 15 | 32 | 36 | 39 |
| 15 | 48 | 64 | 67 | 68 | 64 | 63 | 60 | 57 | 53 | 49 | 48 | 47 |
| 16 | 52 | 54 | 59 | 63 | 61 | 62 | 54 | 57 | 52 | 54 | 54 | 58 |
| 17 | 66 | 66 | 68 | 74 | 69 | 64 | 88 | 98 | 89 | 97 | 102 | 118 |
| 18 | 122 | 145 | 160 | 150 | 149 | 138 | 123 | 113 | 115 | 168 | 167 | 148 |
| 19 | 126 | 106 | 91 | 174 | 149 | 154 | 132 | 14 | 171 | 158 | 309 | 438 |
| 20 | -409 | -233 | -178 | -163 | -86 | -141 | -294 | -254 | -195 | -141*45 | -290 | -465 |

| HOURS | RRS DISCOVERY CRUISE NO. 47 MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF MINUTES | | | | | | | | | | | | DATE 22- 6-1972 (DAY NO 174) | | |
|-------|--|-----|-----|--------|------|------|-------|-------|------|------|------|-----|------------------------------|--|--|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | | | |
| 00 | 68 | 35 | -15 | -166 | -557 | -931 | -1325 | -1209 | -886 | -512 | -257 | 152 | | | |
| 01 | 329*02 | 307 | 282 | 392*16 | 371 | 325 | 249 | 235 | 238 | 219 | 216 | 255 | | | |
| 02 | 317 | 365 | 322 | 319 | 344 | 340 | 317 | 282 | 248 | 225 | 223 | 255 | | | |
| 03 | 312 | 376 | 408 | 409 | 382 | 358 | 330 | 312 | 296 | 259 | 256 | 293 | | | |
| 04 | 339 | 338 | 317 | 291 | 269 | 246 | 190 | 102 | 10 | -44 | -72 | -91 | | | |
| 05 | -84 | -27 | 58 | 129 | 217 | 314 | 405 | 494 | 571 | 625 | 648 | 644 | | | |
| 06 | 597 | 494 | 358 | 253 | 136 | 73 | 23 | -6 | -27 | -46 | -58 | -69 | | | |
| 07 | -75 | -87 | -97 | -101 | -92 | -77 | -60 | -44 | -22 | 10 | 55 | 109 | | | |
| 08 | | | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |

RRS DISCOVERY CRUISE NO. 47 DATE 24- 6-1972 (DAY NO 176)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|--------|--------|--------|------|--------|------|--------|--------|------|------|--------|--------|
| 00 | -6 | | | | 167*21 | 127 | 423 | 602*37 | 517 | 259 | -90 | -151 |
| 01 | 700*01 | | -85*09 | 207 | 361*19 | 230 | 114 | 221*37 | 200 | 124 | 275 | 620*53 |
| 02 | 711*01 | 80*03 | 826 | 551 | 255*21 | 296 | 412 | 384 | 430 | 524 | 664*49 | 110 |
| 03 | 164 | 875*07 | 246 | 226 | 221 | 158 | 140*29 | 226 | 97 | 21 | 50 | 114 |
| 04 | 178 | | 159 | 192 | 205*19 | 125 | 44 | -6 | -16 | 11 | 75 | 127 |
| 05 | 25 | | -223 | -267 | -277 | -241 | -169 | -102 | -12 | -48 | -22 | 602 |
| 06 | 71 | | 155 | 205 | -247 | 282 | 313 | 350 | 379 | 419 | 501 | 540 |
| 07 | 682 | | 716 | 677 | 663 | 639 | 627 | 623 | 611 | 586 | 555 | 540 |
| 08 | 535 | | 482 | 391 | 271 | 124 | -101 | -387 | -600 | -672 | -670 | -635 |

D 9

RRS DISCOVERY CRUISE NO. 47 DATE 25- 6-1972 (DAY NO 177)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|--------|------|-------|------|------|------|------|------|------|--------|
| 00 | -548 | -472 | -388 | -274 | -126 | 1 | 80 | 102 | 103 | 126 | 183 | 211 |
| 01 | 217 | 230 | 265 | 261 | 231 | 234 | 257 | 297 | 325 | 273 | 219 | 164 |
| 02 | 114 | 35 | 1 | -24 | -78 | -120 | -167 | -231 | -266 | -225 | -130 | -46 |
| 03 | 18 | 81 | 152 | 169 | 131 | -78 | 59 | -235 | -11 | -34 | -159 | -55 |
| 04 | -55 | -34 | -1 | 2 | -9 | -19 | -45 | -6 | 85 | 78 | 14 | -75 |
| 05 | 363 | -26 | 16 | 105 | 91 | 42 | 59 | 152 | 155 | 240 | 407 | 445*53 |
| 06 | 80 | 469 | 517*09 | 273 | 33*21 | 96 | 59 | 46 | 14 | 277 | -30 | 0 |
| 07 | | 158 | 188 | 112 | 4 | -125 | -210 | -257 | 14 | -237 | -262 | -332 |
| 08 | | | -205 | -106 | -8 | -79 | -180 | -217 | -223 | -162 | -25 | -112 |
| 09 | -166 | -96 | -50 | -57 | -130 | -148 | -145 | -173 | -62 | -10 | 27 | 113 |
| 10 | 52 | 99 | 63 | -28 | -135 | -222 | -290 | -315 | -320 | -320 | -316 | -320 |
| 11 | -378 | -320 | -311 | -300 | -303 | -303 | -301 | -297 | -293 | -302 | -331 | -361 |
| 12 | -239 | -385 | -381 | -376 | -371 | -370 | -368 | -359 | -344 | -317 | -285 | -260 |
| 13 | -237 | -229 | -217 | -202 | -191 | -178 | -176 | -178 | -185 | -197 | -202 | -180 |
| 14 | -147 | -111 | -95 | -86 | -81 | -57 | -38 | -24 | -124 | -26 | -27 | -33 |
| 15 | -41 | -48 | -51 | -50 | -46 | -43 | -39 | -35 | -34 | -30 | -30 | -28 |
| 16 | 177 | 181 | 179 | 178 | 54 | 71 | 88 | 104 | 122 | 136 | 151 | 167 |
| 17 | 177 | 177 | 179 | 178 | 180 | 180 | 184 | 184 | 185 | 184 | 179 | 176 |
| 18 | 168 | 174 | 176 | 188 | 175 | 180 | 176 | 178 | 185 | 173 | 174 | 169 |
| 19 | 360 | 375 | 387 | 392 | 399 | 207 | 222 | 240 | 266 | 288 | 316 | 340 |
| 20 | 455 | 461 | 454 | 441 | 414 | 400 | 406 | 411 | 420 | 431 | 439 | 448 |
| 21 | 315 | 319 | 335 | 356 | 382 | 377 | 339 | 306 | 292 | 293 | 301 | 306 |
| 22 | 378 | 335 | 335 | 344 | 382 | 394 | 409 | 417 | 425 | 432 | 427 | 407 |
| 23 | | | | 244 | 208 | 172 | 157 | 146 | 135 | 128 | 119 | 107 |

RRS DISCOVERY CRUISE NO. 47 AFTER THE REMOVAL OF IGRF MAGNETIC ANOMALY IN GAMMAS (DAY NO 178)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | 95 | 79 | 66 | 50 | 39 | 26 | 18 | 11 | 1 | -10 | -20 | -22 |
| 01 | -28 | -31 | -39 | -46 | -49 | -45 | -43 | -49 | -60 | -79 | -99 | -118 |
| 02 | -137 | -152 | -174 | -200 | -223 | -242 | -256 | -266 | -271 | -271 | -266 | -260 |
| 03 | -252 | -245 | -233 | -219 | -207 | -198 | -194 | -190 | -188 | -190 | -192 | -191 |
| 04 | | | -163 | -142 | -117 | -92 | -69 | -48 | -27 | -13 | -9 | 4 |
| 05 | 5 | 8 | 10 | 15 | 16 | 21 | 25 | 28 | 24 | 10 | 28 | 34 |
| 06 | -61 | -83 | -107 | -127 | -145 | -164 | -176 | -186 | -192 | -208 | -208 | -214 |
| 07 | -221 | -221 | -219 | -220 | -220 | -216 | -213 | -212 | -211 | -206 | -198 | -185 |
| 08 | -175 | -161 | -142 | -122 | -106 | -93 | -76 | -59 | -38 | -16 | -2 | 4 |
| 09 | 8 | 6 | 4 | 0 | -2 | 0 | 6 | 17 | 35 | 56 | 76 | 97 |
| 10 | 109 | 117 | 124 | 126 | 124 | 117 | 111 | 104 | 97 | 92 | 92 | 88 |
| 11 | 79 | 65 | 51 | 38 | 27 | 22 | 16 | 12 | 10 | 13 | 20 | 31 |
| 12 | 35 | 35 | 37 | 34 | 27 | 8 | -18 | -44 | -57 | -52 | -42 | -35 |
| 13 | -32 | -32 | -27 | -25 | -21 | -14 | -10 | -8 | -14 | -19 | -32 | -13 |
| 14 | 31 | 15 | 31 | 42 | 46 | 51 | 50 | 50 | 45 | 37 | -10 | -7 |
| 15 | 31 | 30 | 30 | 25 | 17 | 10 | 3 | 0 | -6 | -10 | -10 | 7 |
| 16 | 70 | 69 | 62 | 52 | 46 | 43 | 44 | 43 | 40 | 41 | 44 | 43 |
| 17 | 42 | 37 | 30 | 29 | 32 | 36 | 40 | 43 | 42 | 46 | 48 | 54 |
| 18 | 58 | 66 | 73 | 79 | 73 | 52 | 31 | 11 | 2 | -6 | -3 | 4 |
| 19 | 11 | 26 | 46 | 73 | 99 | 125 | 140 | 136 | 114 | 94 | 73 | 52 |
| 20 | 43 | 49 | 61 | 82 | 94 | 103 | 107 | 119 | 130 | 144 | 153 | 142 |
| 21 | 122 | 97 | 74 | 68 | 82 | 134 | 195 | 209 | 169 | 106 | 51 | 3 |
| 22 | -62 | -118 | -148 | -149 | -191 | -249 | -366 | -481 | -530 | -509 | -569 | -489 |

RRS DISCOVERY CRUISE NO. 47 AFTER THE REMOVAL OF IGRF MAGNETIC ANOMALY IN GAMMAS (DAY NO 179)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|-------|------|------|------|------|------|-------|
| 00 | -573 | -900 | -806 | -598 | -806 | -754 | -698 | -859 | -824 | -868 | -911 | -1026 |
| 01 | -954 | -825 | -784 | -937 | -994 | -1030 | -962 | -743 | -391 | -349 | -306 | -169 |
| 02 | -43 | 129 | 277 | 399 | 448 | 439 | 385 | 294 | 233 | 239 | 284 | 309 |
| 03 | 343 | 366 | 389 | 312 | 323 | 342 | 328 | 299 | 261 | 226 | 232 | 217 |
| 04 | 194 | 191 | 142 | 17 | 6 | 45 | -110 | -181 | -229 | -273 | -319 | -346 |
| 05 | -357 | -360 | -363 | -355 | -333 | -296 | -254 | -189 | -100 | -10 | 87 | 180 |
| 06 | 254 | 309 | 337 | 342 | 339 | 309 | 272 | 229 | 165 | 72 | -20 | -97 |
| 07 | -131 | -68 | 36 | 85 | 108 | 54 | 11 | -45 | -79 | -69 | -109 | -102 |
| 08 | -117 | -88 | -69 | -157 | -109 | -29 | 82 | -44 | -24 | 6 | -55 | |

RRS DISCOVERY CRUISE NO.47
MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF
MINUTES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 00 | -173 | | | | 507 | 373*23 | 731 | 465*37 | 323 | 587*47 | 321 | -47 |
| 01 | 112*01 | -6*07 | 32 | 474*17 | 394 | 536*25 | 119 | 89*33 | 385 | 424*43 | 165 | 180*57 |
| 02 | 384 | 331*07 | 310*11 | 255 | 219*22 | 276*23 | 163 | 558*36 | 211*42 | 404*46 | 490*52 | 270*56 |
| 03 | 519 | 641 | 484 | 495 | 353 | 434*23 | 298*29 | 421 | 484*39 | 395*43 | 362*49 | 423 |
| 04 | 161 | 138*03 | 177 | 304 | 260 | 263 | 249 | 292 | 320 | 410*43 | 416 | 338 |
| 05 | 290 | 199 | 250 | 45*17 | 114 | 301*27 | 351 | 444 | 566*42 | 482 | 449*48 | 374 |
| 06 | -80 | -120 | 250 | 323*13 | 187 | 116 | 26 | 3 | 16 | 436 | 86 | -104 |
| 07 | -102 | -4 | -42*12 | 76 | 188 | 135 | 165 | 240 | 255 | 206 | 137 | 57 |
| 08 | -48*02 | | | -29 | -48*18 | -88 | -65 | -31 | -29 | -13 | 5 | 8 |

D=

RRS DISCOVERY CRUISE NO.47
MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF
MINUTES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|--------|------|------|------|------|-------|--------|------|------|------|--------|
| 00 | 0 | -36 | -54 | -63 | -46 | -15 | 58 | 111*33 | 55 | 44 | 17 | 48 |
| 01 | 22 | 51 | 10 | 280 | 118 | 56 | 34*28 | 182*36 | 295 | 482 | 664 | 693*54 |
| 02 | 450 | 293 | 222 | 337 | 337 | 412 | 308 | 173 | 281 | 344 | 332 | 373 |
| 03 | 338 | 318*04 | 475 | 548 | 478 | 331 | 192 | 170 | 234 | 342 | 375 | 383 |
| 04 | 362 | 347 | 344 | 330 | 307 | 299 | 305 | 311 | 306 | 290 | 270 | 256 |
| 05 | 250 | 254 | 256 | 246 | 225 | 197 | 170 | 143 | 121 | 102 | 85 | 272 |
| 06 | 62 | 57 | 58 | 47 | 43 | 36 | 28 | 21 | 12 | 58 | 6 | 14 |
| 07 | -22 | -22 | -18 | -9 | 1 | 15 | 29 | 40 | 50 | 2 | 64 | 67 |
| 08 | 66 | 62 | 56 | 50 | 41 | 33 | 25 | 16 | 6 | -75 | -76 | 25 |
| 09 | -35 | -43 | -52 | -58 | -64 | -84 | -72 | -74 | -74 | -73 | -66 | 63 |
| 10 | -60 | -78 | -79 | -81 | -82 | -84 | -86 | -84 | -79 | -56 | -54 | 50 |
| 11 | -45 | -50 | -53 | -56 | -52 | -55 | -54 | -55 | -54 | -42 | -42 | 46 |
| 12 | -51 | -55 | -52 | -57 | -50 | -53 | -53 | -65 | -62 | -63 | -62 | 64 |
| 13 | -60 | -69 | -57 | -54 | -61 | -61 | -63 | -61 | -68 | -67 | -67 | 56 |
| 14 | -60 | -49 | -47 | -37 | -33 | -19 | -16 | -5 | 46 | 49 | 6 | 61 |
| 15 | -127 | 18 | 19 | 24 | 24 | 28 | 33 | 38 | 46 | 74 | 56 | 62 |
| 16 | 67 | 76 | 77 | 84 | 85 | 87 | 84 | 86 | 79 | 49 | 73 | 62 |
| 17 | 53 | 45 | 33 | 20 | 10 | 0 | 5 | 13 | 17 | 23 | 23 | 25 |
| 18 | -29 | -38 | -42 | -45 | -52 | -62 | -70 | -73 | -79 | -81 | -89 | 89 |
| 19 | -91 | -88 | -89 | -82 | -84 | -84 | -84 | -82 | -84 | -88 | -95 | 100 |
| 20 | -107 | -110 | -113 | -121 | -125 | -125 | -125 | -127 | -134 | -128 | -129 | 123 |
| 21 | -118 | -114 | -103 | -100 | -96 | -97 | -101 | -109 | -117 | -127 | -133 | 140 |
| 22 | -148 | -154 | -154 | -152 | -154 | -152 | -150 | -148 | -145 | -143 | -141 | 136 |

| HOURS | RRS DISCOVERY CRUISE NO. 47 MAGNETIC ANOMALY IN GAMMAS AFTER THE REMOVAL OF IGRF | | | | | | | | | | | | DATE | 1-7-1972 | (DAY NO 1R3) | |
|-------|---|--------|--------|--------|------|-------|------|------|------|------|---------|------|------|----------|--------------|-----|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | | | | |
| 00 | -134 | -129 | -128 | -122 | -122 | -124 | -124 | -124 | -134 | -140 | -145 | -149 | 40 | 45 | 50 | 55 |
| 01 | -148 | -142 | -128 | -109 | -94 | -81 | -81 | -64 | -49 | -41 | -37 | -28 | -49 | -41 | -37 | -28 |
| 02 | -18 | 217*03 | 3 | 15 | 22 | 26 | 38 | 38 | 60 | 60 | 54 | 54 | 60 | 60 | 54 | 54 |
| 03 | 122*01 | 59 | 76 | -66*17 | -33 | 6 | 21 | 21 | -59 | -184 | -212*49 | -76 | -59 | -184 | -212*49 | -76 |
| 04 | 47 | 102*11 | 102*11 | 163 | 152 | 169 | 145 | 145 | 98 | -182 | -182 | 64 | 98 | -182 | -182 | 64 |
| 05 | 28 | 59 | 17 | -6*13 | 5 | -8*27 | 17 | 17 | -12 | -10 | -18 | -20 | -12 | -10 | -18 | -20 |
| 06 | -73 | -34 | -35 | -42 | -47 | -48 | -41 | -41 | -67 | -60 | -59 | -69 | -67 | -60 | -59 | -69 |
| 07 | -92 | -85 | -66 | -67*17 | -57 | -69 | -77 | -77 | -84 | -85 | -88 | -93 | -84 | -85 | -88 | -93 |
| 08 | | -93 | -96 | -102 | -108 | -122 | -102 | -102 | -3 | -23 | -62*51 | -37 | -3 | -23 | -62*51 | -37 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | 00 | 05 | 10 | 15 | 20 | MINUTES | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|----|----|----|----|----|---------|----|----|----|----|----|----|----|
| 00 | | | | | | | | | | | | | |
| 01 | | 21 | | 19 | 21 | | 23 | | 17 | 19 | | | 20 |
| 02 | | 22 | | 23 | 23 | | 30 | | 22 | 17 | | | 20 |
| 03 | | 33 | | 33 | 31 | | 37 | | 36 | 31 | | | 32 |
| 04 | | 36 | | 37 | 37 | | 38 | | 37 | 37 | | | 36 |
| 05 | | 38 | | 38 | 38 | | 43 | | 39 | 45 | | | 37 |
| 06 | | 40 | | 43 | 45 | | 47 | | 46 | 49 | | | 48 |
| 07 | | 42 | | 49 | 47 | | 50 | | 47 | 47 | | | 47 |
| 08 | | 47 | | 47 | 50 | | 47 | | 47 | 46 | | | 49 |
| 09 | | 48 | | 48 | 48 | | 48 | | 48 | 48 | | | 47 |
| 10 | | 50 | | 49 | 50 | | 50 | | 50 | 51 | | | 48 |
| 11 | | 52 | | | | | | | | | | | 48 |
| 12 | | 54 | | | | | | | | | | | 50 |
| 13 | | 54 | | | | | | | | | | | |
| 14 | | 55 | 53 | | | | | 54 | | 51 | | | |
| 15 | 4 | 55 | 54 | | | | | 54 | | 54 | | | 54 |
| 16 | 4 | 57 | 54 | | | | | 54 | | 55 | | | 54 |
| 17 | 5 | 58 | 55 | | | | | 55 | | 55 | | | 54 |
| 18 | 5 | 58 | 55 | | | | | 55 | | 56 | | | 57 |
| 19 | 5 | 59 | 56 | | | | | 56 | | 59 | | | 59 |
| 20 | 6 | 59 | 59 | | | | | 59 | | 60 | | | 60 |
| 21 | 6 | 59 | 59 | | | | | 60 | | 60 | | | 60 |
| 22 | 6 | 59 | 59 | | | | | 60 | | 60 | | | 60 |
| 23 | 5 | 58 | 58 | | | | | 57 | | 57 | | | 58 |
| | 5 | 58 | 58 | | | | | 58 | | 58 | | | 60 |

D 13

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | 00 | 05 | 10 | 15 | 20 | MINUTES | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|------|-----|-----|-----|---------|-----|----|-----|-----|----|----|-----|
| 00 | | | | | | | | | | | | | |
| 01 | 60 | 61 | 61 | 64 | 62 | | 63 | | 65 | 66 | | | 69 |
| 02 | 81 | 83 | 83 | 74 | 74 | | 77 | | 78 | 79 | | | 81 |
| 03 | 87 | 88 | 88 | 83 | 84 | | 85 | | 85 | 85 | | | 87 |
| 04 | 92 | 93 | 93 | 89 | 89 | | 89 | | 90 | 91 | | | 92 |
| 05 | 98 | 99 | 99 | 94 | 94 | | 95 | | 96 | 96 | | | 97 |
| 06 | 131 | 141 | 100 | 101 | 102 | | 103 | | 107 | 111 | | | 124 |
| 07 | 313 | 345 | 149 | 158 | 171 | | 182 | | 209 | 234 | | | 296 |
| 08 | 725 | 793 | 376 | 418 | 458 | | 517 | | 588 | 607 | | | 688 |
| 09 | 691 | 761* | 868 | 743 | 716 | | 649 | | 641 | 651 | | | 736 |
| 10 | 838 | 850 | 723 | 869 | 880 | | 774 | | 800 | 812 | | | 824 |
| 11 | 926 | 932 | 859 | 936 | 937 | | 890 | | 905 | 911 | | | 958 |
| 12 | 961 | 964 | 967 | 971 | 977 | | 980 | | 948 | 950 | | | 993 |
| 13 | 993 | 995 | 997 | 997 | 998 | | 997 | | 995 | 995 | | | 985 |
| 14 | 980 | 983 | 966 | 962 | 954 | | 940 | | 917 | 905 | | | 858 |
| 15 | 846 | 840 | 864 | 809 | 808 | | 790 | | 772 | 766 | | | 748 |
| 16 | 739 | 727 | 718 | 714 | 687 | | 668 | | 641 | 629 | | | 594 |
| 17 | 532 | 522 | 560 | 548 | 536 | | 526 | | 501 | 488 | | | 452 |
| 18 | 439 | 426 | 418 | 405 | 393 | | 383 | | 366 | 357 | | | 336 |
| 19 | 329 | 324 | 318 | 312 | 306 | | 302 | | 292 | 286 | | | 273 |
| 20 | 266 | 258 | 254 | 251 | 249 | | 247 | | 243 | 241 | | | 239 |
| 21 | 239 | 239 | 239 | 240 | 239 | | 239 | | 238 | 240 | | | 239 |
| 22 | 240 | 241 | 243 | 246 | 247 | | 252 | | 259 | 263 | | | 272 |
| 23 | 272 | 272 | 272 | 272 | 272 | | 272 | | 272 | 272 | | | 270 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | DATE 12- 6-1972 (DAY NO 164) | | | | | | | | | | | |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 265 | 269 | 265 | 265 | 266 | 267 | 270 | 270 | 271 | 272 | 273 | 275 |
| 01 | 275 | 278 | 280 | 284 | 288 | 292 | 298 | 298 | 311 | 307 | 311 | 314 |
| 02 | 320 | 324 | 334 | 345 | 346 | 396 | 329 | 352 | 311* | 393 | 402 | 402 |
| 03 | 406 | 415 | 415 | 419 | 409 | 720 | 948 | 1034 | 1085 | 958 | 1140 | 1120 |
| 04 | 1046 | 1019 | 958 | 901 | 883 | 872 | 833 | 807 | 791 | 789 | 791 | 799 |
| 05 | 811 | 827 | 846 | 868 | 893 | 915 | 950 | 985 | 1019 | 1060 | 1112 | 1175 |
| 06 | 1320 | 1360 | 1384 | 1432 | 1351 | 1344 | 1351 | 1422 | 1485 | 1567 | 1607 | 1629 |
| 07 | 1634 | 1660 | 1668 | 1679 | 1692 | 1694 | 1692 | 1697 | 1712 | 1732 | 1761 | 1772 |
| 08 | 1788 | 1805 | 1801 | 1805 | 1805 | 1873 | 1873 | 1828 | 1834 | 1836 | 1882 | 1847 |
| 09 | 1852 | 1883 | 1885 | 1885 | 1890 | 1901 | 1896 | 1901 | 1909 | 1911 | 1912 | 1916 |
| 10 | 1917 | 1925 | 1934 | 1934 | 1940 | 1949 | 1963 | 1970 | 1982 | 1995 | 2011 | 2027 |
| 11 | 2044 | 2057 | 2113 | 2113 | 2129 | 2140 | 2157 | 2180 | 2205 | 2228 | 2252 | 2270 |
| 12 | 2285 | 2303 | 2303 | 2310 | 2320 | 2331 | 2340 | 2354 | 2364 | 2376 | 2404 | 2426 |
| 13 | 2420 | 2431 | 2430 | 2435 | 2441 | 2444 | 2444 | 2445 | 2447 | 2448 | 2450 | 2449 |
| 14 | 2450 | 2452 | 2454 | 2455 | 2456 | 2456 | 2457 | 2458 | 2461 | 2463 | 2464 | 2462 |
| 15 | 2468 | 2465 | 2467 | 2471 | 2471 | 2475 | 2484 | 2488 | 2490 | 2495 | 2497 | 2498 |
| 16 | 2498 | 2501 | 2500 | 2500 | 2495 | 2492 | 2497 | 2507 | 2490 | 2526 | 2526 | 2526 |
| 17 | 2530 | 2533 | 2534 | 2537 | 2538 | 2539 | 2541 | 2543 | 2543 | 2545 | 2547 | 2547 |
| 18 | 2549 | 2551 | 2551 | 2554 | 2555 | 2559 | 2555 | 2543 | 2543 | 2549 | 2549 | 2547 |
| 19 | 2547 | 2545 | 2544 | 2543 | 2543 | 2542 | 2541 | 2540 | 2539 | 2533 | 2498 | 2527 |
| 20 | 2522 | 2515 | 2514 | 2512 | 2509 | 2508 | 2507 | 2506 | 2503 | 2502 | 2498 | 2497 |
| 21 | 2492 | 2488 | 2483 | 2480 | 2482 | 2480 | 2478 | 2477 | 2475 | 2469 | 2468 | 2464 |
| 22 | 2456 | 2456 | 2448 | 2448 | 2444 | 2439 | 2437 | 2432 | 2427 | 2423 | 2417 | 2413 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | DATE 13- 6-1972 (DAY NO 165) | | | | | | | | | | | |
|-------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 2410 | 2408 | 2406 | 2398 | 2391 | 2385 | 2379 | 2376 | 2374 | 2369 | 2366 | 2362 |
| 01 | 2358 | 2356 | 2351 | 2349 | 2347 | 2345 | 2343 | 2337 | 2332 | 2326 | 2322 | 2322 |
| 02 | 2320 | 2318 | 2315 | 2315 | 2311 | 2306 | 2302 | 2297 | 2291 | 2282 | 2276 | 2267 |
| 03 | 2253 | 2245 | 2237 | 2233 | 2222 | 2211 | 2204 | 2194 | 2184 | 2176 | 2165 | 2151 |
| 04 | 2140 | 2121 | 2114 | 2109 | 2092 | 2092 | 2084 | 2074 | 2071 | 2065 | 2059 | 2052 |
| 05 | 2044 | 2040 | 2034 | 2029 | 2025 | 2022 | 2017 | 2008 | 2006 | 2002 | 1998 | 1992 |
| 06 | 1988 | 1986 | 1977 | 1984 | 1965 | 1962 | 1965 | 1960 | 1953 | 1952 | 1945 | 1941 |
| 07 | 1938 | 1935 | 1935 | 1936 | 1932 | 1932 | 1932 | 1928 | 1924 | 1922 | 1920 | 1919 |
| 08 | 1917 | 1913 | 1910 | 1907 | 1901 | 1899 | 1901 | 1897 | 1897 | 1897 | 1897 | 1897 |
| 09 | 1897 | 1896 | 1893 | 1894 | 1891 | 1890 | 1890 | 1888 | 1889 | 1885 | 1885 | 1882 |
| 10 | 1880 | 1880 | 1879 | 1875 | 1873 | 1873 | 1868 | 1870 | 1866 | 1864 | 1862 | 1859 |
| 11 | 1859 | 1858 | 1856 | 1853 | 1850 | 1849 | 1847 | 1844 | 1841 | 1832 | 1828 | 1825 |
| 12 | 1820 | 1817 | 1818 | 1817 | 1815 | 1811 | 1809 | 1808 | 1807 | 1807 | 1804 | 1801 |
| 13 | 1798 | 1799 | 1798 | 1797 | 1795 | 1793 | 1790 | 1788 | 1788 | 1785 | 1781 | 1779 |
| 14 | 1774 | 1770 | 1769 | 1764 | 1761 | 1753 | 1752 | 1748 | 1748 | 1745 | 1741 | 1743 |
| 15 | 1737 | 1739 | 1733 | 1732 | 1733 | 1731 | 1729 | 1729 | 1720 | 1714 | 1710 | 1712 |
| 16 | 1704 | 1707 | 1702 | 1703 | 1698 | 1695 | 1694 | 1690 | 1684 | 1683 | 1682 | 1682 |
| 17 | 1675 | 1673 | 1674 | 1666 | 1668 | 1662 | 1665 | 1665 | 1665 | 1650 | 1638 | 1627 |
| 18 | 1620 | 1630 | 1620 | 1604 | 1603 | 1599 | 1601 | 1590 | 1588 | 1576 | 1580 | 1580 |
| 19 | 1579 | 1581 | 1579 | 1570 | 1568 | 1555 | 1562 | 1570 | 1560 | 1563 | 1559 | 1549 |
| 20 | 1549 | 1549 | 1549 | 1540 | 1539 | 1528 | 1516 | 1518 | 1517 | 1512 | 1525 | 1520 |
| 21 | 1509 | 1503 | 1497 | 1497 | 1496 | 1496 | 1485 | 1489 | 1487 | 1488 | 1486 | 1475 |
| 22 | 1467 | 1468 | 1452 | 1451 | 1439 | 1442 | 1433 | 1442 | 1428 | 1423 | 1411 | 1417 |
| 23 | 1406 | 1405 | 1399 | 1399 | 1383 | 1388 | 1381 | 1384 | 1375 | 1365 | 1370 | 1361 |

RBS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

RBS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | 1356 | 1345 | 1345 | 1347 | 1333 | 1331 | 1330 | 1332 | 1316 | 1309 | 1308 | 1306 |
| 01 | 1298 | 1310 | 1288 | 1284 | 1275 | 1269 | 1263 | 1257 | 1249 | 1234 | 1206 | 1208 |
| 02 | 1277 | 1246 | 1250 | 1253 | 1253 | 1259 | 1265 | 1236 | 1234 | 1234 | 1241 | 1241 |
| 03 | 1308 | 1282 | 1299 | 1294 | 1298 | 1301 | 1305 | 1310 | 1267 | 1267 | 1308 | 1274 |
| 04 | 1313 | 1315 | 1309 | 1315 | 1313 | 1312 | 1315 | 1315 | 1312 | 1308 | 1312 | 1308 |
| 05 | 1311 | 1311 | 1315 | 1311 | 1311 | 1311 | 1312 | 1313 | 1310 | 1312 | 1313 | 1312 |
| 06 | 1308 | 1306 | 1306 | 1311 | 1308 | 1312 | 1312 | 1315 | 1316 | 1318 | 1321 | 1324 |
| 07 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1322 | 1321 | 1323 | 1324 |
| 08 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1322 | 1321 | 1323 | 1324 |
| 09 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1322 | 1321 | 1323 | 1324 |
| 10 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1324 | 1322 | 1321 | 1323 | 1324 |
| 11 | 1331 | 1333 | 1333 | 1337 | 1333 | 1336 | 1335 | 1334 | 1335 | 1332 | 1335 | 1336 |
| 12 | 1333 | 1333 | 1333 | 1337 | 1333 | 1336 | 1335 | 1334 | 1335 | 1332 | 1335 | 1336 |
| 13 | 1340 | 1337 | 1333 | 1339 | 1333 | 1334 | 1338 | 1332 | 1345 | 1332 | 1339 | 1304 |
| 14 | 1304 | 1304 | 1303 | 1329 | 1294 | 1288 | 1293 | 1292 | 1303 | 1304 | 1297 | 1304 |
| 15 | 1304 | 1325 | 1320 | 1328 | 1316 | 1327 | 1327 | 1333 | 1324 | 1324 | 1326 | 1324 |
| 16 | 1312 | 1325 | 1320 | 1328 | 1316 | 1327 | 1327 | 1333 | 1304 | 1306 | 1308 | 1308 |
| 17 | 1286 | 1315 | 1292 | 1295 | 1292 | 1296 | 1291 | 1299 | 1342 | 1306 | 1341 | 1308 |
| 18 | 1312 | 1315 | 1292 | 1295 | 1292 | 1296 | 1291 | 1299 | 1342 | 1306 | 1341 | 1308 |
| 19 | 1312 | 1315 | 1292 | 1295 | 1292 | 1296 | 1291 | 1299 | 1342 | 1306 | 1341 | 1308 |
| 20 | 1337 | 1331 | 1330 | 1323 | 1326 | 1325 | 1319 | 1315 | 1313 | 1312 | 1309 | 1307 |
| 21 | 1307 | 1301 | 1306 | 1295 | 1292 | 1291 | 1290 | 1286 | 1280 | 1275 | 1270 | 1265 |
| 22 | 1254 | 1250 | 1245 | 1234 | 1205 | 1182 | 1165 | 1126 | 1093 | 1074 | 1053 | 1032 |
| 23 | 1018 | 1994 | 1979 | 1964 | 1951 | 1938 | 1930 | 1918 | 1914 | 1907 | 1904 | 1908 |

D15

RBS DISCOVERY CRUISE NO 167

RBS DISCOVERY CRUISE NO 167

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | 914 | 927 | 955 | 918 | 891 | 873 | 864 | 836 | 826 | 802 | 834 | 852 |
| 01 | 844 | 894 | 851 | 865 | 879 | 877 | 861 | 861 | 861 | 864 | 870 | 877 |
| 02 | 883 | 890 | 903 | 909 | 916 | 925 | 938 | 944 | 954 | 967 | 967 | 974 |
| 03 | 979 | 990 | 997 | 1001 | 1014 | 1025 | 1031 | 1036 | 1042 | 1052 | 1060 | 1067 |
| 04 | 1083 | 1099 | 1110 | 1127 | 1135 | 1142 | 1158 | 1175 | 1195 | 1227 | 1249 | 1269 |
| 05 | 1282 | 1306 | 1324 | 1331 | 1351 | 1362 | 1372 | 1376 | 1377 | 1380 | 1385 | 1388 |
| 06 | 1391 | 1413 | 1427 | 1435 | 1451 | 1462 | 1486 | 1398 | 1405 | 1407 | 1410 | 1415 |
| 07 | 1415 | 1473 | 1457 | 1386 | 1275 | 1296 | 1275 | 1239 | 1207 | 1173 | 1147 | 1122 |
| 08 | 1098 | 1079 | 1057 | 1044 | 1021 | 1002 | 978 | 958 | 938 | 922 | 909 | 896 |
| 09 | 885 | 876 | 868 | 861 | 853 | 847 | 840 | 836 | 832 | 830 | 824 | 822 |
| 10 | 820 | 818 | 817 | 817 | 817 | 816 | 819 | 808 | 802 | 798 | 792 | 789 |
| 11 | 787 | 783 | 778 | 775 | 772 | 770 | 769 | 769 | 770 | 772 | 777 | 781 |
| 12 | 787 | 793 | 805 | 813 | 818 | 830 | 836 | 843 | 843 | 843 | 834 | 830 |
| 13 | 831 | 814 | 805 | 793 | 777 | 777 | 771 | 746 | 755 | 745 | 733 | 720 |
| 14 | 710 | 700 | 693 | 686 | 678 | 672 | 666 | 658 | 651 | 645 | 638 | 631 |
| 15 | 628 | 630 | 688 | 623 | 612 | 636 | 649 | 645 | 627 | 615 | 606 | 600 |
| 16 | 596 | 592 | 570 | 585 | 582 | 579 | 576 | 574 | 573 | 572 | 569 | 568 |
| 17 | 570 | 571 | 587 | 570 | 570 | 592 | 570 | 569 | 572 | 572 | 572 | 574 |
| 18 | 575 | 579 | 582 | 587 | 591 | 592 | 580 | 569 | 559 | 535 | 520 | 505 |
| 19 | 501 | 493 | 485 | 477 | 470 | 462 | 450 | 442 | 409 | 450 | 464 | 415 |
| 20 | 446 | 445 | 486 | 446 | 450 | 452 | 455 | 457 | 460 | 462 | 466 | 469 |
| 21 | 428 | 480 | 486 | 486 | 480 | 480 | 475 | 470 | 464 | 456 | 448 | 437 |
| 22 | 428 | 397 | 324 | 307 | 384 | 379 | 375 | 364 | 362 | 354 | 346 | 313 |
| 23 | 340 | 325 | 324 | 307 | 297 | 279 | 273 | 269 | 261 | 255 | 251 | 251 |

R/S DISCOVERY CRUISE NO 47
 DEPTH IN CORRECTED FATHOMS

DATE 18- 6-1972 (DAY NO 170)

| HOURS | MINUTES | | | | | | 55 |
|-------|---------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | |
| 00 | 366 | 358 | 353 | 347 | 343 | 340 | 334 |
| 01 | 335 | 335 | 340 | 348 | 351 | 358 | 372 |
| 02 | 394 | 400 | 410 | 410 | 414 | 423 | 390 |
| 03 | 1102 | 1124 | 1136 | 1124 | 1114 | 1118 | 1080 |
| 04 | 1059 | 1052 | 1044 | 1038 | 1032 | 1025 | 1008 |
| 05 | 986 | 983 | 977 | 963 | 969 | 967 | 963 |
| 06 | 963 | 964 | 964 | 963 | 964 | 968 | 994 |
| 07 | 1006 | 1008 | 1013 | 1017 | 1021 | 1029 | 1040 |
| 08 | 1044 | 1046 | 1049 | 1053 | 1055 | 1059 | 1068 |
| 09 | 1081 | 1089 | 1079 | 1071 | 1088 | 1101 | 1073 |
| 10 | 1116 | 1109 | 1016 | 956 | 919 | 826 | 415 |
| 11 | 409 | 405 | 395 | 384 | 375 | 369 | 378 |
| 12 | 399 | 409 | 425 | 439 | 452 | 466 | 371 |
| 13 | 1061 | 1097 | 1148 | 1177 | 1190 | 1194 | 1022 |
| 14 | 1140 | 1136 | 1133 | 1130 | 1129 | 1128 | 1148 |
| 15 | 1134 | 1134 | 1134 | 1132 | 1132 | 1128 | 1134 |
| 16 | | | | | | | |
| 17 | 1112 | 1110 | 1108 | 1106 | 1105 | 1104 | 1114 |
| 18 | 1085 | 1083 | 1081 | 1078 | 1077 | 1076 | 1088 |
| 19 | 1060 | 1058 | 1056 | 1053 | 1053 | 1050 | 1062 |
| 20 | 1037 | 1035 | 1031 | 1033 | 1033 | 1031 | 1039 |
| 21 | 1025 | 1023 | 1021 | 1021 | 1020 | 1019 | 1025 |
| 22 | 1015 | 1014 | 1013 | 1013 | 1012 | 1011 | 1017 |
| 23 | | | | | | | 1006 |

D 17

R/S DISCOVERY CRUISE NO 47
 DEPTH IN CORRECTED FATHOMS

DATE 19- 6-1972 (DAY NO 171)

| HOURS | MINUTES | | | | | | 55 |
|-------|---------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | |
| 00 | 1006 | 1006 | 1006 | 1014 | 1004 | 1004 | 1004 |
| 01 | 1008 | 1008 | 1011 | 1014 | 1018 | 1047 | 1059 |
| 02 | 323 | 308 | 295 | 284 | 278 | 276 | 269 |
| 03 | 257 | 260 | 261 | 265 | 267 | 276 | 269 |
| 04 | 412 | 430 | 447 | 466 | 487 | 501 | 538 |
| 05 | 762 | 767 | 779 | 790 | 804 | 815 | 843 |
| 06 | 900 | 913 | 933 | 940 | 949 | 955 | 974 |
| 07 | 961 | 958 | 950 | 951 | 949 | 941 | 937 |
| 08 | 913 | 912 | 906 | 902 | 898 | 893 | 886 |
| 09 | 869 | 867 | 863 | 862 | 857 | 854 | 850 |
| 10 | 835 | 831 | 829 | 827 | 824 | 821 | 813 |
| 11 | 802 | 801 | 798 | 796 | 794 | 792 | 788 |
| 12 | 779 | 771 | 764 | 760 | 756 | 749 | 737 |
| 13 | 709 | 703 | 698 | 697 | 692 | 687 | 684 |
| 14 | 684 | 684 | 684 | 685 | 686 | 687 | 688 |
| 15 | 687 | 687 | 686 | 686 | 685 | 682 | 675 |
| 16 | 662 | 661 | 658 | 657 | 655 | 652 | 645 |
| 17 | 630 | 633 | 619 | 614 | 609 | 602 | 592 |
| 18 | 609 | 605 | 600 | 597 | 593 | 582 | 575 |
| 19 | 569 | 565 | 560 | 557 | 553 | 548 | 545 |
| 20 | 538 | 530 | 530 | 530 | 532 | 532 | 528 |
| 21 | 522 | 520 | 534 | 540 | 547 | 560 | 578 |
| 22 | 522 | 527 | 531 | 537 | 547 | 569 | 587 |
| 23 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | DATE 20- 6-1972 (DAY NO 172) | | | | | |
|-------|------------------------------|-----|-----|-----|-----|---------|
| | 00 | 05 | 10 | 15 | 20 | MINUTES |
| 00 | 658 | 673 | 675 | 678 | 682 | 690 |
| 01 | 731 | 740 | 733 | 725 | 717 | 695 |
| 02 | 673 | 669 | 668 | 669 | 663 | 694 |
| 03 | 662 | 664 | 666 | 669 | 670 | 654 |
| 04 | 693 | 697 | 698 | 701 | 702 | 676 |
| 05 | 680 | 680 | 681 | 682 | 684 | 691 |
| 06 | 701 | 704 | 706 | 707 | 709 | 687 |
| 07 | 722 | 724 | 725 | 726 | 728 | 716 |
| 08 | 739 | 740 | 742 | 744 | 748 | 732 |
| 09 | 761 | 762 | 764 | 766 | 771 | 754 |
| 10 | 786 | 788 | 791 | 794 | 797 | 777 |
| 11 | 805 | 803 | 801 | 801 | 802 | 810 |
| 12 | 790 | 790 | 789 | 789 | 797 | 794 |
| 13 | 786 | 786 | 786 | 786 | 786 | 786 |
| 14 | 840 | 849 | 872 | 879 | 890 | 804 |
| 15 | 579 | 563 | 552 | 519 | 491 | 788 |
| 16 | 282 | 270 | 266 | 263 | 258 | 792 |
| 17 | 315 | 320 | 323 | 326 | 329 | 808 |
| 18 | 591 | 376 | 381 | 386 | 391 | 287 |
| 19 | 436 | 443 | 449 | 457 | 469 | 401 |
| 20 | 524 | 525 | 546 | 518 | 530 | 485 |
| 21 | 593 | 593 | 591 | 587 | 581 | 551 |
| 22 | | | | | | 583 |
| 23 | | | | | | |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | DATE 21- 6-1972 (DAY NO 173) | | | | | |
|-------|------------------------------|-----|-----|-----|-----|---------|
| | 00 | 05 | 10 | 15 | 20 | MINUTES |
| 00 | 579 | 577 | 579 | 579 | 579 | 585 |
| 01 | 591 | 592 | 594 | 595 | 596 | 603 |
| 02 | 610 | 611 | 612 | 612 | 612 | 616 |
| 03 | 628 | 629 | 631 | 629 | 625 | 628 |
| 04 | 637 | 635 | 636 | 637 | 639 | 632 |
| 05 | 651 | 635 | 653 | 653 | 653 | 641 |
| 06 | 659 | 649 | 661 | 666 | 668 | 653 |
| 07 | 682 | 661 | 686 | 682 | 680 | 672 |
| 08 | 654 | 652 | 657 | 648 | 646 | 647 |
| 09 | 640 | 639 | 637 | 638 | 638 | 639 |
| 10 | 629 | 633 | 632 | 631 | 625 | 633 |
| 11 | 617 | 637 | 617 | 627 | 625 | 625 |
| 12 | 610 | 610 | 617 | 623 | 614 | 614 |
| 13 | 594 | 596 | 609 | 609 | 606 | 606 |
| 14 | 578 | 579 | 576 | 588 | 588 | 584 |
| 15 | 566 | 565 | 568 | 577 | 572 | 571 |
| 16 | 572 | 566 | 568 | 571 | 561 | 559 |
| 17 | 584 | 584 | 584 | 572 | 572 | 578 |
| 18 | 572 | 572 | 526 | 513 | 499 | 489 |
| 19 | 467 | 469 | 460 | 455 | 448 | 446 |
| 20 | 412 | 409 | 399 | 393 | 386 | 377 |
| 21 | 354 | 350 | 345 | 345 | 342 | 338 |
| 22 | | | | | | 316 |
| 23 | | | | | | |

RRS DISCOVERY CRUISE NO 47
 DATE 22- 6-1972 (DAY NO 174)
 DEPTH IN CORRECTED FATHOMS

| HOURS | MINUTES | | | | | | | | | | | |
|-------|---------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 312 | 322 | 315 | 317 | 300 | 299 | 298 | 294 | 289 | 290 | 283 | 289 |
| 01 | 289 | 293 | 290 | 289 | 297 | 304 | 304 | 302 | 305 | 307 | 307 | 307 |
| 02 | 313 | 327 | 359 | 361 | 372 | 380 | 396 | 398 | 435 | 443 | 455 | 459 |
| 03 | 464 | 469 | 477 | 483 | 498 | 513 | 528 | 538 | 547 | 563 | 576 | 585 |
| 04 | 591 | 605 | 618 | 629 | 638 | 647 | 656 | 667 | 678 | 688 | 698 | 708 |
| 05 | 719 | 728 | 740 | 749 | 762 | 776 | 786 | 798 | 810 | 826 | 837 | 855 |
| 06 | 869 | 896 | 908 | 929 | 943 | 964 | 941 | 925 | 966 | 1031 | 1027 | 1037 |
| 07 | 1055 | 1076 | 1092 | 1102 | 1119 | 1133 | 1153 | 1166 | 1166 | 1176 | 1211 | 1240 |
| 08 | 1267 | | | | | | | | | | | |

RRS DISCOVERY CRUISE NO 47
 DEPTH IN CORRECTED FATHOMS

DATE 22- 6-1972 (DAY NO 174)

| HOURS | MINUTES | | | | | |
|-------|---------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | | | | | | |
| 01 | 1492 | 1273 | 1297 | 1318 | 1339 | 1352 |
| 02 | 1242 | 1500 | 1505 | 1486 | 1459 | 1434 |
| 03 | 1058 | 1211 | 1182 | 1164 | 1154 | 1147 |
| 04 | 980 | 1049 | 1039 | 1018 | 1020 | 996 |
| 05 | 860 | 982 | 980 | 970 | 955 | 942 |
| 06 | 860 | 850 | 840 | 827 | 815 | 805 |
| 07 | 744 | 745 | 740 | 733 | 722 | 714 |
| 08 | 669 | 663 | 654 | 651 | 642 | 634 |
| 09 | 592 | 588 | 584 | 580 | 576 | 576 |
| 10 | 535 | 550 | 547 | 544 | 541 | 537 |
| 11 | 519 | 515 | 512 | 509 | 506 | 503 |
| 12 | 476 | 476 | 472 | 475 | 459 | 450 |
| 13 | 441 | 441 | 440 | 440 | 440 | 439 |
| 14 | 409 | 401 | 393 | 386 | 383 | 374 |
| 15 | 354 | 369 | 377 | 384 | 382 | 377 |
| 16 | 409 | 412 | 414 | 417 | 421 | 425 |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |

D 20

RRS DISCOVERY CRUISE NO 47
 DEPTH IN CORRECTED FATHOMS

DATE 23- 6-1972 (DAY NO 175)

| HOURS | MINUTES | | | | | |
|-------|---------|-----|-----|-----|-----|-----|
| | 00 | 05 | 10 | 15 | 20 | 25 |
| 00 | | | | | | |
| 01 | 505 | 517 | 528 | 535 | 540 | 550 |
| 02 | 617 | 628 | 641 | 675 | 719 | 705 |
| 03 | 702 | 704 | 701 | 708 | 706 | 709 |
| 04 | 690 | 690 | 686 | 688 | 688 | 703 |
| 05 | 686 | 686 | 686 | 686 | 688 | 688 |
| 06 | 694 | 696 | 696 | 686 | 694 | 686 |
| 07 | 695 | 696 | 696 | 696 | 694 | 694 |
| 08 | 712 | 719 | 719 | 696 | 670 | 694 |
| 09 | 494 | 477 | 458 | 436 | 435 | 453 |
| 10 | 544 | 569 | 585 | 605 | 624 | 641 |
| 11 | 645 | 647 | 640 | 635 | 622 | 629 |
| 12 | 593 | 588 | 579 | 579 | 574 | 568 |
| 13 | 525 | 521 | 509 | 509 | 505 | 499 |
| 14 | 448 | 434 | 423 | 407 | 394 | 381 |
| 15 | 323 | 318 | 310 | 303 | 300 | 296 |
| 16 | 242 | 230 | 221 | 215 | 205 | 200 |
| 17 | 184 | 179 | 178 | 175 | 172 | 168 |
| 18 | 155 | 154 | 153 | 150 | 149 | 147 |
| 19 | 139 | 138 | 136 | 135 | 134 | 134 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|----|-----|-----|-----|----|----|----|----|-----|-----|----|-----|
| 00 | | | | | | | | | | | | |
| 01 | 91 | 89 | 89 | 91 | 94 | 94 | 82 | 87 | 91 | 89 | 86 | |
| 02 | | | | | | | 89 | 85 | | | | |
| 03 | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | |
| 05 | 96 | 100 | 113 | 107 | 94 | 95 | 95 | 94 | 94 | | | 104 |
| 06 | | 104 | | 104 | 98 | | 95 | | | | | |
| 07 | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | 101 | 102 | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |

DATE 24- 6-1972 (DAY NO 176)

DATE 25- 6-1972 (DAY NO 177)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 00 | | | | | | | | | | | | |
| 01 | 93 | 95 | 94 | 95 | 97 | 94 | 100 | 99 | 93 | 95 | 94 | 93 |
| 02 | 93 | 95 | 94 | 95 | 97 | 94 | 95 | 95 | 95 | 95 | 94 | 95 |
| 03 | 289 | 288 | 288 | 287 | 287 | 286 | 286 | 286 | 285 | 285 | 285 | 284 |
| 04 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 |
| 05 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 | 284 |
| 06 | 280 | 280 | 277 | 279 | 277 | 276 | 273 | 279 | 284 | 290 | 294 | 295 |
| 07 | 296 | 296 | 302 | 317 | 352 | 318 | 322 | 325 | 326 | 330 | 332 | 337 |
| 08 | 295 | 295 | 340 | 344 | 400 | 352 | 350 | 358 | 364 | 369 | 372 | 377 |
| 09 | 383 | 387 | 389 | 394 | 400 | 407 | 413 | 417 | 419 | 425 | 429 | 460 |
| 10 | 479 | 519 | 525 | 523 | 517 | 516 | 525 | 532 | 538 | 545 | 551 | 559 |
| 11 | 566 | 573 | 525 | 589 | 598 | 606 | 615 | 624 | 633 | 641 | 655 | 667 |
| 12 | 680 | 691 | 702 | 710 | 720 | 731 | 737 | 753 | 761 | 769 | 777 | 777 |
| 13 | 774 | 772 | 766 | 759 | 755 | 753 | 745 | 739 | 733 | 728 | 726 | 721 |
| 14 | 719 | 719 | 716 | 719 | 710 | 712 | 714 | 716 | 722 | 722 | 720 | 719 |
| 15 | 733 | 731 | 722 | 732 | 719 | 716 | 717 | 716 | 726 | 726 | 728 | 733 |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 725 | 725 | 726 | 726 | 726 | 726 | 720 | 725 | 725 | 726 | 725 | 725 |
| 20 | 720 | 725 | 723 | 723 | 722 | 723 | 725 | 725 | 722 | 725 | 722 | 719 |
| 21 | 708 | 719 | 717 | 717 | 717 | 713 | 713 | 712 | 712 | 714 | 710 | 710 |
| 22 | 717 | 712 | 708 | 708 | 708 | 710 | 712 | 716 | 713 | 714 | 714 | 716 |
| 23 | 716 | 716 | 712 | 716 | 719 | 719 | 723 | 720 | 723 | 726 | 725 | 728 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | DATE 30-6-1972 (DAY NO 182) | | | | | | | | | | | |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 112 | 112 | 112 | 113 | 112 | 113 | 114 | 114 | 114 | 114 | 114 | 114 |
| 01 | 115 | 114 | 114 | 119 | 118 | 119 | 120 | 122 | 122 | 122 | 128 | 130 |
| 02 | 135 | 139 | 144 | 149 | 155 | 161 | 173 | 188 | 207 | 229 | 250 | 271 |
| 03 | 291 | 310 | 337 | 376 | 407 | 436 | 472 | 495 | 523 | 548 | 572 | 600 |
| 04 | 627 | 633 | 678 | 704 | | 817 | 848 | 886 | 913 | 925 | 943 | 960 |
| 05 | 972 | 980 | 991 | 1004 | 1018 | 1025 | 1038 | 1050 | 1060 | 1079 | 1107 | 1123 |
| 06 | 1133 | 1148 | 1169 | 1182 | 1193 | 1209 | 1215 | 1222 | 1236 | 1247 | 1260 | 1272 |
| 07 | 1356 | 1359 | 1364 | 1368 | 1373 | 1378 | 1386 | 1386 | 1391 | 1394 | 1400 | 1405 |
| 08 | 1410 | 1451 | 1417 | 1421 | 1424 | 1427 | 1432 | 1432 | 1439 | 1440 | 1444 | 1447 |
| 09 | 1481 | 1455 | 1459 | 1459 | 1462 | 1465 | 1468 | 1470 | 1475 | 1477 | 1479 | 1480 |
| 10 | 1503 | 1487 | 1489 | 1491 | 1493 | 1495 | 1497 | 1499 | 1502 | 1503 | 1505 | 1508 |
| 11 | 1517 | 1503 | 1505 | 1505 | 1509 | 1510 | 1512 | 1512 | 1513 | 1517 | 1517 | 1518 |
| 12 | 1547 | 1529 | 1522 | 1529 | 1532 | 1532 | 1537 | 1539 | 1540 | 1542 | 1545 | 1545 |
| 13 | 1560 | 1549 | 1549 | 1549 | 1551 | 1552 | 1553 | 1556 | 1557 | 1557 | 1559 | 1560 |
| 14 | 1570 | 1562 | 1562 | 1562 | 1564 | 1566 | 1566 | 1567 | 1567 | 1568 | 1569 | 1569 |
| 15 | 1572 | 1570 | 1569 | 1572 | 1572 | 1572 | 1572 | 1572 | 1572 | 1572 | 1572 | 1572 |
| 16 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 |
| 17 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 | 1569 |
| 18 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 |
| 19 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 | 1566 |
| 20 | 1568 | 1574 | 1564 | 1574 | 1570 | 1569 | 1578 | 1579 | 1579 | 1580 | 1581 | 1582 |
| 21 | 1585 | 1586 | 1587 | 1588 | 1573 | 1575 | 1578 | 1579 | 1579 | 1580 | 1581 | 1582 |
| 22 | 1596 | 1597 | 1598 | 1598 | 1590 | 1591 | 1592 | 1594 | 1591 | 1595 | 1595 | 1596 |
| 23 | | | | | 1598 | 1598 | 1598 | 1594 | 1591 | 1586 | 1580 | 1574 |

D 24

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED FATHOMS

| HOURS | DATE 1-7-1972 (DAY NO 183) | | | | | | | | | | | |
|-------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 1566 | 1526 | 1519 | 1527 | 1460 | 1413 | 1357 | 1323 | 1284 | 1265 | 1242 | 1187 |
| 01 | 1749 | 1713 | 1687 | 1655 | 1630 | 1618 | 1619 | 1979 | 1932 | 1891 | 1827 | 1794 |
| 02 | 311 | 270 | 259 | 253 | 245 | 244 | 585 | 526 | 513 | 412 | 430 | 393 |
| 03 | 183 | 177 | 175 | 172 | 169 | 168 | 224 | 214 | 206 | 200 | 195 | 187 |
| 04 | 150 | 147 | 138 | 136 | 134 | 131 | 165 | 163 | 160 | 158 | 156 | 153 |
| 05 | 115 | 113 | 111 | 108 | 107 | 104 | 123 | 127 | 124 | 121 | 119 | 117 |
| 06 | 78 | 78 | 79 | 81 | 82 | 81 | 103 | 101 | 99 | 97 | 96 | 95 |
| 07 | 81 | 79 | 79 | 81 | 84 | 84 | 82 | 80 | 80 | 79 | 79 | 79 |
| 08 | 64 | 65 | 65 | 67 | 67 | 68 | 77 | 83 | 83 | 83 | 81 | 81 |
| 09 | 69 | 69 | 69 | 69 | 68 | 68 | 71 | 71 | 69 | 67 | 67 | 67 |
| 10 | 66 | 67 | 65 | 68 | 68 | 68 | 68 | 68 | 67 | 68 | 68 | 69 |
| 11 | 66 | 66 | 65 | 66 | 66 | 67 | 66 | 66 | 66 | 66 | 66 | 66 |
| 12 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
| 13 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
| 14 | 63 | 64 | 63 | 63 | 63 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| 15 | 64 | 63 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| 16 | 64 | 63 | 62 | 63 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 65 |
| 17 | 64 | 65 | 66 | 66 | 66 | 66 | 66 | 67 | 68 | 68 | 68 | 69 |
| 18 | 71 | 71 | 71 | 71 | 71 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| 19 | 72 | 71 | 69 | 68 | 68 | 67 | 65 | 65 | 65 | 64 | 65 | 65 |
| 20 | 72 | 71 | 66 | 66 | 68 | 69 | 65 | 65 | 65 | 64 | 65 | 65 |
| 21 | 62 | 65 | 66 | 66 | 66 | 66 | 65 | 65 | 65 | 65 | 65 | 67 |
| 22 | 62 | 61 | 66 | 66 | 63 | 64 | 62 | 62 | 62 | 62 | 61 | 67 |
| 23 | 68 | 68 | 67 | 66 | 65 | 64 | 64 | 61 | 60 | 58 | 57 | 57 |

| RRS DISCOVERY CRUISE NO 47 DEPTH IN CORRECTED FATHOMS | DATE | 2-7-1977 | (DAY NO 184) |
|--|------|----------|--------------|
| HOURS | 40 | 45 | 50 |
| 00 | 57 | 56 | 55 |
| 01 | 54 | 54 | 54 |
| 02 | 53 | 54 | 53 |
| 03 | 53 | 53 | 53 |
| 04 | 52 | 52 | 52 |
| 05 | 51 | 51 | 51 |
| 06 | 49 | 49 | 48 |
| 07 | 48 | 48 | 48 |
| 08 | 46 | 46 | 46 |
| 09 | 46 | 46 | 46 |
| 10 | 46 | 46 | 46 |
| 11 | 45 | 45 | 45 |
| 12 | 45 | 45 | 45 |
| 13 | 45 | 45 | 45 |
| 14 | 45 | 45 | 45 |
| 15 | 43 | 43 | 43 |
| 16 | 37 | 37 | 37 |
| 17 | 32 | 32 | 32 |
| 18 | 28 | 28 | 28 |
| 19 | 21 | 21 | 21 |
| 20 | 17 | 17 | 17 |
| 21 | 14 | 14 | 14 |
| 22 | 13 | 13 | 13 |
| 23 | 14 | 16 | 10 |
| MINUTES | 20 | 25 | 30 |
| 00 | 57 | 56 | 56 |
| 01 | 54 | 54 | 54 |
| 02 | 53 | 54 | 54 |
| 03 | 53 | 53 | 53 |
| 04 | 52 | 53 | 52 |
| 05 | 51 | 50 | 51 |
| 06 | 49 | 48 | 48 |
| 07 | 49 | 48 | 48 |
| 08 | 46 | 46 | 46 |
| 09 | 46 | 46 | 46 |
| 10 | 46 | 46 | 46 |
| 11 | 48 | 49 | 50 |
| 12 | 47 | 47 | 47 |
| 13 | 37 | 37 | 37 |
| 14 | 32 | 32 | 32 |
| 15 | 27 | 27 | 26 |
| 16 | 20 | 23 | 19 |
| 17 | 16 | 15 | 13 |
| 18 | 13 | 13 | 13 |
| 19 | 13 | 13 | 13 |
| 20 | 14 | 10 | 14 |
| 21 | 14 | 14 | 14 |
| 22 | 14 | 14 | 14 |
| 23 | 14 | 14 | 14 |

| RRS DISCOVERY CRUISE NO 47 | | DATE 12- 6-1972 (DAY NO 164) | | | | | | | | | | |
|----------------------------|------|------------------------------|------|------|------|------|--------|------|--------|------|------|------|
| DEPTH IN CORRECTED METRES | | MINUTES | | | | | | | | | | |
| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 486 | 492 | 486 | 486 | 488 | 490 | 494 | 494 | 496 | 498 | 500 | 503 |
| 01 | 503 | 509 | 513 | 520 | 528 | 535 | 545 | 558 | 567 | 563 | 569 | 576 |
| 02 | 586 | 593 | 612 | 631 | 634 | 541 | 601*32 | 644 | 569*38 | 719 | 737 | 737 |
| 03 | 743 | 760 | 760 | 767 | 748 | 1318 | 1734 | 1891 | 1985 | 1752 | 2086 | 2050 |
| 04 | 1914 | 1865 | 1752 | 1649 | 1615 | 1596 | 1525 | 1477 | 1447 | 1443 | 1447 | 1462 |
| 05 | 2258 | 1581 | 1581 | 1581 | 1675 | 1675 | 1738 | 1800 | 1865 | 1940 | 2034 | 2150 |
| 06 | 2431 | 2431 | 2052 | 2619 | 2459 | 2459 | 2472 | 2600 | 2717 | 2867 | 2939 | 2980 |
| 07 | 3037 | 3037 | 3052 | 3071 | 3096 | 3098 | 3096 | 3105 | 3132 | 3169 | 3221 | 3241 |
| 08 | 3270 | 3270 | 3294 | 3302 | 3308 | 3427 | 3427 | 3344 | 3355 | 3359 | 3442 | 3378 |
| 09 | 3387 | 3389 | 3395 | 3406 | 3308 | 3477 | 3477 | 3440 | 3442 | 3450 | 3442 | 3439 |
| 10 | 3444 | 3445 | 3447 | 3448 | 3458 | 3477 | 3469 | 3477 | 3442 | 3496 | 3497 | 3505 |
| 11 | 3507 | 3522 | 3530 | 3537 | 3549 | 3566 | 3591 | 3604 | 3623 | 3650 | 3678 | 3707 |
| 12 | 3739 | 3762 | 3815 | 3865 | 3895 | 3915 | 3945 | 3987 | 4033 | 4075 | 4119 | 4152 |
| 13 | 4179 | 4200 | 4213 | 4225 | 4244 | 4263 | 4280 | 4305 | 4324 | 4347 | 4397 | 4438 |
| 14 | 4440 | 4447 | 4455 | 4461 | 4465 | 4470 | 4470 | 4472 | 4476 | 4478 | 4482 | 4480 |
| 15 | 4482 | 4486 | 4488 | 4490 | 4492 | 4493 | 4495 | 4497 | 4501 | 4505 | 4507 | 4503 |
| 16 | 4505 | 4509 | 4513 | 4520 | 4520 | 4528 | 4543 | 4551 | 4555 | 4563 | 4567 | 4570 |
| 17 | 4570 | 4574 | 4572 | 4572 | 4562 | 4554 | 4567 | 4586 | 4613 | 4613 | 4620 | 4620 |
| 18 | 4628 | 4634 | 4636 | 4640 | 4642 | 4644 | 4647 | 4651 | 4651 | 4653 | 4659 | 4659 |
| 19 | 4663 | 4667 | 4667 | 4671 | 4674 | 4674 | 4674 | 4671 | 4667 | 4663 | 4660 | 4659 |
| 20 | 4659 | 4655 | 4653 | 4651 | 4651 | 4649 | 4647 | 4646 | 4644 | 4634 | 4630 | 4627 |
| 21 | 4601 | 4601 | 4599 | 4594 | 4590 | 4588 | 4586 | 4584 | 4578 | 4576 | 4570 | 4567 |
| 22 | 4559 | 4551 | 4542 | 4540 | 4540 | 4536 | 4532 | 4530 | 4528 | 4517 | 4515 | 4507 |
| 23 | 4493 | 4493 | 4486 | 4478 | 4470 | 4461 | 4457 | 4449 | 4440 | 4432 | 4422 | 4413 |

| RRS DISCOVERY CRUISE NO 47 | | DATE 13- 6-1972 (DAY NO 165) | | | | | | | | | | |
|----------------------------|------|------------------------------|------|------|------|------|------|------|------|------|------|------|
| DEPTH IN CORRECTED METRES | | MINUTES | | | | | | | | | | |
| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 4409 | 4405 | 4401 | 4386 | 4374 | 4363 | 4351 | 4347 | 4342 | 4334 | 4328 | 4320 |
| 01 | 4313 | 4309 | 4301 | 4297 | 4294 | 4290 | 4286 | 4274 | 4265 | 4255 | 4248 | 4248 |
| 02 | 4244 | 4240 | 4234 | 4234 | 4228 | 4219 | 4211 | 4202 | 4190 | 4175 | 4163 | 4146 |
| 03 | 4121 | 4106 | 4092 | 4085 | 4064 | 4027 | 4025 | 4014 | 3995 | 3981 | 3960 | 3956 |
| 04 | 3915 | 3880 | 3861 | 3842 | 3827 | 3827 | 3813 | 3794 | 3789 | 3777 | 3766 | 3756 |
| 05 | 3739 | 3731 | 3720 | 3712 | 3705 | 3699 | 3694 | 3674 | 3670 | 3663 | 3655 | 3644 |
| 06 | 3636 | 3633 | 3617 | 3629 | 3594 | 3592 | 3594 | 3585 | 3572 | 3570 | 3558 | 3551 |
| 07 | 3545 | 3539 | 3533 | 3541 | 3534 | 3534 | 3534 | 3526 | 3520 | 3515 | 3513 | 3511 |
| 08 | 3507 | 3499 | 3493 | 3488 | 3477 | 3458 | 3457 | 3454 | 3471 | 3471 | 3471 | 3471 |
| 09 | 3471 | 3469 | 3463 | 3465 | 3459 | 3458 | 3457 | 3454 | 3456 | 3447 | 3448 | 3442 |
| 10 | 3439 | 3439 | 3437 | 3429 | 3427 | 3427 | 3418 | 3420 | 3414 | 3410 | 3406 | 3401 |
| 11 | 3399 | 3399 | 3395 | 3389 | 3385 | 3382 | 3378 | 3374 | 3368 | 3351 | 3344 | 3338 |
| 12 | 3323 | 3323 | 3325 | 3322 | 3317 | 3317 | 3310 | 3308 | 3306 | 3306 | 3300 | 3294 |
| 13 | 3293 | 3291 | 3289 | 3286 | 3283 | 3277 | 3275 | 3270 | 3270 | 3266 | 3258 | 3255 |
| 14 | 3245 | 3238 | 3236 | 3226 | 3221 | 3207 | 3205 | 3198 | 3198 | 3192 | 3185 | 3182 |
| 15 | 3177 | 3181 | 3181 | 3165 | 3171 | 3166 | 3169 | 3151 | 3147 | 3147 | 3147 | 3132 |
| 16 | 3118 | 3122 | 3113 | 3115 | 3107 | 3101 | 3099 | 3092 | 3081 | 3073 | 3073 | 3077 |
| 17 | 3064 | 3060 | 3062 | 3048 | 3052 | 3041 | 3045 | 3045 | 3045 | 3018 | 2996 | 2977 |
| 18 | 2977 | 2982 | 2963 | 2935 | 2939 | 2845 | 2858 | 2875 | 2905 | 2884 | 2894 | 2890 |
| 19 | 2877 | 2893 | 2863 | 2873 | 2869 | 2845 | 2858 | 2877 | 2852 | 2860 | 2852 | 2833 |
| 20 | 2792 | 2833 | 2833 | 2818 | 2816 | 2796 | 2773 | 2777 | 2775 | 2766 | 2790 | 2781 |
| 21 | 2760 | 2750 | 2744 | 2754 | 2732 | 2738 | 2717 | 2724 | 2720 | 2722 | 2718 | 2697 |
| 22 | 2682 | 2686 | 2659 | 2655 | 2632 | 2640 | 2627 | 2638 | 2615 | 2604 | 2581 | 2592 |
| 23 | 2572 | 2570 | 2559 | 2559 | 2530 | 2634 | 2627 | 2633 | 2613 | 2604 | 2581 | 2589 |

RRS DISCOVERY CRUISE NO 47
 DATE 14- 6-1972 (DAY NO 166)

| HOURS | MINUTES | | | | | 35 | 40 | 45 | 50 | 55 |
|-------|---------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | | | | | |
| 00 | 2480 | 2461 | 2461 | 2465 | 2438 | 2437 | 2408 | 2395 | 2393 | 2390 |
| 01 | 2371 | 2378 | 2356 | 2350 | 2338 | 2300 | 2285 | 2247 | 2206 | 2210 |
| 02 | 2270 | 2217 | 2228 | 2225 | 2232 | 2262 | 2311 | 2258 | 2270 | 2270 |
| 03 | 2277 | 2279 | 2286 | 2292 | 2292 | 2313 | 2315 | 2318 | 2326 | 2330 |
| 04 | 2337 | 2345 | 2363 | 2367 | 2375 | 2397 | 2393 | 2393 | 2393 | 2393 |
| 05 | 2393 | 2397 | 2405 | 2405 | 2403 | 2406 | 2401 | 2401 | 2403 | 2401 |
| 06 | 2403 | 2399 | 2403 | 2399 | 2399 | 2403 | 2397 | 2393 | 2403 | 2393 |
| 07 | 2393 | 2390 | 2403 | 2397 | 2393 | 2403 | 2408 | 2412 | 2416 | 2423 |
| 08 | 2423 | 2423 | 2423 | 2423 | 2423 | 2423 | 2423 | 2423 | 2420 | 2423 |
| 09 | 2414 | 2412 | 2416 | 2412 | 2408 | 2416 | 2418 | 2418 | 2416 | 2416 |
| 10 | 2435 | 2437 | 2438 | 2437 | 2438 | 2440 | 2442 | 2442 | 2442 | 2440 |
| 11 | 2452 | 2446 | 2442 | 2446 | 2438 | 2437 | 2461 | 2437 | 2450 | 2444 |
| 12 | 2386 | 2367 | 2365 | 2367 | 2367 | 2363 | 2384 | 2386 | 2373 | 2388 |
| 13 | 2393 | 2420 | 2413 | 2429 | 2408 | 2408 | 2423 | 2402 | 2404 | 2428 |
| 14 | 2352 | 2406 | 2380 | 2431 | 2425 | 2437 | 2373 | 2423 | 2425 | 2428 |
| 15 | 2386 | 2420 | 2413 | 2429 | 2408 | 2408 | 2423 | 2386 | 2356 | 2386 |
| 16 | 2393 | 2406 | 2380 | 2431 | 2425 | 2437 | 2373 | 2423 | 2356 | 2386 |
| 17 | 2352 | 2406 | 2380 | 2431 | 2425 | 2437 | 2373 | 2423 | 2356 | 2386 |
| 18 | 2302 | 2414 | 2410 | 2442 | 2425 | 2446 | 2386 | 2348 | 2393 | 2348 |
| 19 | 2446 | 2437 | 2433 | 2431 | 2420 | 2406 | 2403 | 2461 | 2393 | 2452 |
| 20 | 2391 | 2380 | 2371 | 2369 | 2363 | 2352 | 2403 | 2341 | 2395 | 2391 |
| 21 | 2294 | 2286 | 2277 | 2258 | 2204 | 2060 | 1999 | 1965 | 1926 | 1888 |
| 22 | 1862 | 1819 | 1791 | 1763 | 1741 | 1680 | 1672 | 1659 | 1655 | 1661 |

D 28

RRS DISCOVERY CRUISE NO 47
 DATE 15- 6-1972 (DAY NO 167)

| HOURS | MINUTES | | | | | 35 | 40 | 45 | 50 | 55 |
|-------|---------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | | | | | |
| 00 | 1672 | 1696 | 1747 | 1680 | 1631 | 1530 | 1512 | 1467 | 1527 | 1558 |
| 01 | 1545 | 1635 | 1552 | 1583 | 1609 | 1728 | 1575 | 1569 | 1592 | 1605 |
| 02 | 1791 | 1812 | 1825 | 1832 | 1855 | 1896 | 1907 | 1769 | 1769 | 1782 |
| 03 | 1982 | 2010 | 2030 | 2035 | 2077 | 2150 | 2187 | 2244 | 1939 | 1952 |
| 04 | 2345 | 2390 | 2427 | 2435 | 2472 | 2517 | 2519 | 2525 | 2285 | 2322 |
| 05 | 2589 | 2585 | 2551 | 2536 | 2555 | 2557 | 2570 | 2574 | 2534 | 2540 |
| 06 | 2009 | 1974 | 1934 | 1910 | 1869 | 2266 | 2208 | 2146 | 2099 | 2052 |
| 07 | 1620 | 1603 | 1588 | 1575 | 1560 | 1752 | 1717 | 1663 | 1663 | 1639 |
| 08 | 1501 | 1497 | 1495 | 1495 | 1495 | 1530 | 1523 | 1519 | 1508 | 1504 |
| 09 | 1437 | 1432 | 1424 | 1419 | 1413 | 1478 | 1467 | 1460 | 1450 | 1443 |
| 10 | 1441 | 1452 | 1471 | 1488 | 1499 | 1542 | 1540 | 1413 | 1422 | 1430 |
| 11 | 1521 | 1490 | 1472 | 1452 | 1441 | 1565 | 1542 | 1542 | 1527 | 1518 |
| 12 | 1300 | 1281 | 1268 | 1255 | 1242 | 1382 | 1382 | 1363 | 1341 | 1318 |
| 13 | 1149 | 1149 | 1159 | 1140 | 1121 | 1205 | 1192 | 1181 | 1168 | 1155 |
| 14 | 1091 | 1084 | 1075 | 1107 | 1121 | 1181 | 1149 | 1125 | 1110 | 1099 |
| 15 | 1043 | 1059 | 1043 | 1044 | 1064 | 1050 | 1049 | 1047 | 1047 | 1039 |
| 16 | 1053 | 1059 | 1066 | 1075 | 1082 | 1044 | 1047 | 1047 | 1047 | 1051 |
| 17 | 918 | 903 | 887 | 874 | 861 | 1041 | 1013 | 1040 | 952 | 928 |
| 18 | 816 | 816 | 823 | 816 | 816 | 809 | 842 | 850 | 850 | 760 |
| 19 | 864 | 879 | 889 | 890 | 887 | 837 | 842 | 846 | 853 | 859 |
| 20 | 783 | 760 | 740 | 719 | 703 | 801 | 850 | 835 | 820 | 801 |
| 21 | 623 | 595 | 593 | 563 | 544 | 667 | 663 | 649 | 634 | 574 |
| 22 | | | | | | 492 | 479 | 468 | 460 | 460 |

RRS DISCOVERY CRUISE NO 47
 DATE 16- 6-1972 (DAY NO 168)
 DEPTH IN CORRECTED METRES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 00 | 451 | 455 | 451 | 453 | 453 | 451 | 451 | 451 | 436 | 436 | 432 | 429 |
| 01 | 429 | 429 | 429 | 423 | 418 | 414 | 412 | 403 | 396 | 393 | 387 | 381 |
| 02 | 378 | 370 | 366 | 363 | 355 | 351 | 346 | 336 | 333 | 333 | 329 | 323 |
| 03 | 323 | 320 | 318 | 310 | 310 | 306 | 301 | 297 | 293 | 286 | 284 | 276 |
| 04 | 259 | 259 | 257 | 253 | 250 | 246 | 244 | 240 | 231 | 233 | 229 | 231 |
| 05 | 231 | 231 | 228 | 223 | 231 | 227 | 227 | 227 | 225 | 214 | 214 | 222 |
| 06 | 220 | 210 | 222 | 197 | 188 | 169 | 179 | 199 | 164 | 171 | 175 | 179 |
| 07 | 204 | 187 | 182 | 179 | 184 | 197 | 201 | 190 | 229 | 229 | 225 | 220 |
| 08 | 224 | 197 | 175 | 179 | 184 | 190 | 192 | 190 | 184 | 186 | 184 | 220 |
| 09 | 224 | 197 | 225 | 224 | 220 | 218 | 216 | 218 | 216 | 216 | 216 | 216 |
| 10 | 214 | 225 | 214 | 214 | 214 | 212 | 212 | 212 | 216 | 218 | 218 | 220 |
| 11 | 220 | 220 | 218 | 224 | 214 | 212 | 212 | 212 | 216 | 188 | 188 | 190 |
| 12 | 190 | 192 | 194 | 196 | 197 | 186 | 194 | 182 | 184 | 188 | 186 | 182 |
| 13 | 184 | | 194 | 192 | 197 | 197 | 201 | 192 | 190 | 212 | 194 | |
| 14 | | | | 210 | | | 212 | | | 214 | | |
| 15 | 216 | | | 216 | | | 212 | | | 212 | | |
| 16 | 203 | | | 197 | | | 210 | | | 205 | | |
| 17 | | | | 197 | | | | | | | | |
| 18 | | | | 199 | | | 196 | | | 194 | | 194 |
| 19 | 194 | 199 | | 199 | 190 | 190 | 190 | 190 | 190 | 190 | 194 | 194 |
| 20 | 268 | 283 | 197 | 328 | 354 | 205 | 207 | 211 | 222 | 229 | 190 | 253 |
| 21 | 625 | 664 | 696 | 744 | 786 | 377 | 498 | 455 | 468 | 501 | 528 | 576 |
| 22 | | | | | | 823 | 855 | 885 | 928 | 984 | 1027 | 1066 |

RRS DISCOVERY CRUISE NO 47
 DATE 17- 6-1972 (DAY NO 169)
 DEPTH IN CORRECTED METRES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | 1062 | 1066 | 1238 | 1268 | 1305 | 1370 | 1417 | 1490 | 1548 | 1600 | 1667 | 1701 |
| 01 | 1742 | 1779 | 1815 | 1877 | 1895 | 1931 | 1974 | 2004 | 2045 | 2093 | 2138 | 2180 |
| 02 | 2356 | 2358 | 2361 | 2367 | 2378 | 2384 | 2393 | 2402 | 2452 | 2416 | 2454 | 2431 |
| 03 | 2538 | 2444 | 2453 | 2461 | 2470 | 2472 | 2476 | 2483 | 2480 | 2489 | 2495 | 2498 |
| 04 | 2502 | 2504 | 2504 | 2509 | 2517 | 2521 | 2532 | 2534 | 2538 | 2542 | 2547 | 2549 |
| 05 | 2551 | 2559 | 2555 | 2559 | 2566 | 2566 | 2574 | 2576 | 2574 | 2581 | 2576 | 2577 |
| 06 | 2579 | 2585 | 2579 | 2594 | 2562 | 2589 | 2596 | 2596 | 2570 | 2572 | 2576 | 2574 |
| 07 | 2607 | 2607 | 2609 | 2619 | 2619 | 2619 | 2619 | 2623 | 2607 | 2600 | 2607 | 2607 |
| 08 | 2604 | 2607 | 2609 | 2641 | 2641 | 2641 | 2641 | 2641 | 2607 | 2634 | 2630 | 2630 |
| 09 | 2630 | 2630 | 2641 | 2623 | 2607 | 2607 | 2611 | 2641 | 2643 | 2645 | 2645 | 2643 |
| 10 | 2579 | 2579 | 2574 | 2577 | 2577 | 2589 | 2581 | 2577 | 2592 | 2592 | 2592 | 2589 |
| 11 | 2566 | 2564 | 2562 | 2560 | 2559 | 2555 | 2558 | 2545 | 2574 | 2572 | 2572 | 2570 |
| 12 | 2536 | 2525 | 2506 | 2570 | 2559 | 2555 | 2551 | 2545 | 2532 | 2538 | 2535 | 2532 |
| 13 | 2487 | 2485 | 2482 | 2502 | 2498 | 2498 | 2498 | 2495 | 2495 | 2497 | 2495 | 2497 |
| 14 | 2457 | 2445 | 2438 | 2480 | 2477 | 8 | 2468 | 2463 | 2459 | 2457 | 2457 | 2459 |
| 15 | 2409 | 2405 | 2405 | 2437 | 2427 | 2424 | 2424 | 2418 | 2420 | 2418 | 2414 | 2409 |
| 16 | 2377 | 2375 | 2371 | 2403 | 2395 | 2395 | 2394 | 2392 | 2390 | 2387 | 2386 | 2384 |
| 17 | 2347 | 2347 | 2347 | 2367 | 2364 | 2356 | 2350 | 2349 | 2349 | 2347 | 2347 | 2347 |
| 18 | 2347 | 2335 | 2330 | 2334 | 2334 | 2334 | 2334 | 2334 | 2341 | 2341 | 2337 | 2337 |
| 19 | 2307 | 2330 | 2330 | 2330 | 2326 | 2325 | 2327 | 2324 | 2319 | 2315 | 2313 | 2307 |
| 20 | 2307 | 2264 | 2270 | 2292 | 2290 | 2285 | 2277 | 2274 | 2266 | 2268 | 2237 | 2244 |
| 21 | 2065 | 2095 | 2093 | 2089 | 2081 | 2014 | 177 | 165 | 171 | 169 | 168 | 991 |
| 22 | | | | | | | | | | | | 675 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED METRES

| HOURS | DATE 18-6-1972 (DAY NO 170) | | | | | | | | | | | |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 671 | 656 | 647 | 636 | 628 | 623 | 619 | 611 | 609 | 608 | 608 | 609 |
| 01 | 713 | 612 | 623 | 637 | 643 | 656 | 675 | 682 | 701 | 716 | 732 | 730 |
| 02 | 721 | 732 | 751 | 757 | 758 | 775 | 786 | 1084 | 1471 | 1646 | 1829 | 1944 |
| 03 | 2017 | 2075 | 2079 | 2057 | 2038 | 2045 | 2014 | 2004 | 1889 | 1976 | 1963 | 1950 |
| 04 | 1937 | 1924 | 1911 | 1900 | 1888 | 1875 | 1865 | 1855 | 1844 | 1834 | 1823 | 1814 |
| 05 | 1804 | 1799 | 1788 | 1780 | 1773 | 1769 | 1765 | 1763 | 1762 | 1762 | 1762 | 1760 |
| 06 | 1762 | 1763 | 1763 | 1762 | 1763 | 1771 | 1776 | 1788 | 1797 | 1808 | 1818 | 1829 |
| 07 | 1840 | 1845 | 1853 | 1860 | 1868 | 1873 | 1879 | 1883 | 1892 | 1896 | 1896 | 1903 |
| 08 | 1911 | 1913 | 1920 | 1926 | 1930 | 1937 | 1937 | 1941 | 1951 | 1963 | 1963 | 1962 |
| 09 | 1982 | 1993 | 1974 | 1959 | 1991 | 2014 | 2040 | 2066 | 2094 | 2116 | 2133 | 2124 |
| 10 | 2042 | 2029 | 1859 | 1750 | 1681 | 1512 | 1177 | 851 | 831 | 809 | 779 | 760 |
| 11 | 749 | 742 | 723 | 704 | 686 | 675 | 663 | 660 | 667 | 678 | 693 | 708 |
| 12 | 730 | 749 | 779 | 803 | 827 | 853 | 887 | 995 | 1413 | 1776 | 1776 | 1870 |
| 13 | 1941 | 2008 | 2100 | 2154 | 2178 | 2184 | 2178 | 2173 | 2154 | 2128 | 2113 | 2101 |
| 14 | 2086 | 2079 | 2073 | 2068 | 2066 | 2184 | 2178 | 2066 | 2066 | 2070 | 2072 | 2075 |
| 15 | 2075 | 2075 | 2075 | 2072 | 2072 | 2064 | 2064 | 2066 | 2066 | 2070 | 2072 | 2075 |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 2034 | 2030 | 2027 | 2023 | 2021 | 2019 | 2053 | 2051 | 2047 | 2045 | 2042 | 2038 |
| 19 | 1985 | 1981 | 1977 | 1972 | 1970 | 1968 | 2007 | 2005 | 2000 | 1996 | 1991 | 1989 |
| 20 | 1940 | 1936 | 1933 | 1927 | 1927 | 1921 | 1918 | 1914 | 1915 | 1908 | 1905 | 1904 |
| 21 | 1897 | 1893 | 1893 | 1890 | 1890 | 1886 | 1882 | 1880 | 1878 | 1878 | 1877 | 1875 |
| 22 | 1875 | 1871 | 1869 | 1869 | 1867 | 1865 | 1865 | 1860 | 1860 | 1860 | 1860 | 1860 |
| 23 | 1858 | 1856 | 1854 | 1854 | 1852 | 1849 | 1849 | 1845 | 1849 | 1843 | 1841 | 1841 |

D 30

| HOURS | DATE 19-6-1972 (DAY NO 171) | | | | | | | | | | | |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 00 | 1841 | 1841 | 1841 | 1837 | 1837 | 1837 | 1837 | 1837 | 1837 | 1839 | 1841 | 1845 |
| 01 | 1845 | 1845 | 1849 | 1856 | 1862 | 1916 | 2060 | 1938 | 1699 | 1505 | 1238 | 1208 |
| 02 | 1160 | 1085 | 1049 | 974 | 948 | 903 | 861 | 781 | 714 | 670 | 631 | 594 |
| 03 | 592 | 564 | 540 | 521 | 510 | 506 | 499 | 492 | 482 | 479 | 468 | 464 |
| 04 | 471 | 477 | 479 | 486 | 490 | 505 | 536 | 566 | 610 | 655 | 701 | 725 |
| 05 | 755 | 788 | 818 | 853 | 892 | 918 | 948 | 985 | 1115 | 1225 | 1427 | 1394 |
| 06 | 1394 | 1403 | 1425 | 1446 | 1472 | 1492 | 1520 | 1543 | 1567 | 1587 | 1610 | 1625 |
| 07 | 1647 | 1671 | 1707 | 1720 | 1737 | 1729 | 1774 | 1783 | 1768 | 1766 | 1768 | 1783 |
| 08 | 1759 | 1753 | 1750 | 1740 | 1740 | 1729 | 1722 | 1714 | 1705 | 1697 | 1688 | 1681 |
| 09 | 1671 | 1668 | 1658 | 1651 | 1643 | 1634 | 1630 | 1621 | 1617 | 1608 | 1602 | 1597 |
| 10 | 15918 | 1586 | 1580 | 1578 | 1569 | 1563 | 1558 | 1556 | 1548 | 1543 | 1537 | 1532 |
| 11 | 1528 | 1520 | 1517 | 1513 | 1507 | 1502 | 1498 | 1492 | 1487 | 1479 | 1476 | 1472 |
| 12 | 1468 | 1465 | 1461 | 1457 | 1453 | 1450 | 1446 | 1442 | 1437 | 1431 | 1427 | 1422 |
| 13 | 1416 | 1411 | 1399 | 1390 | 1383 | 1371 | 1358 | 1349 | 1333 | 1327 | 1316 | 1308 |
| 14 | 1297 | 1286 | 1278 | 1275 | 1267 | 1260 | 1256 | 1252 | 1252 | 1249 | 1240 | 1240 |
| 15 | 12518 | 1258 | 1256 | 1254 | 1254 | 1249 | 1242 | 1236 | 1233 | 1229 | 1226 | 1216 |
| 16 | 1251 | 1258 | 1256 | 1256 | 1254 | 1249 | 1242 | 1236 | 1233 | 1229 | 1226 | 1216 |
| 17 | 1212 | 1209 | 1203 | 1203 | 1199 | 1196 | 1188 | 1184 | 1179 | 1173 | 1166 | 1160 |
| 18 | 1153 | 1140 | 1133 | 1123 | 1114 | 1101 | 1095 | 1084 | 1073 | 1066 | 1058 | 1051 |
| 19 | 1042 | 1029 | 1025 | 1020 | 1012 | 1001 | 997 | 997 | 994 | 992 | 986 | 984 |
| 20 | 982 | 979 | 975 | 970 | 973 | 973 | 970 | 970 | 968 | 970 | 968 | 970 |
| 21 | 966 | 971 | 977 | 970 | 970 | 973 | 966 | 966 | 966 | 966 | 960 | 955 |
| 22 | 955 | 962 | 977 | 992 | 1010 | 1025 | 1044 | 1058 | 1073 | 1099 | 1103 | 1118 |
| 23 | 1138 | 1147 | 1155 | 1166 | 1184 | 1188 | 1192 | 1203 | 1199 | 1218 | 1218 | 1218 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED METRES

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED METRES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | 1222 | 1231 | 1236 | 1240 | 1248 | 1255 | 1262 | 1272 | 1279 | 1290 | 1300 | 1307 |
| 01 | 1337 | 1354 | 1342 | 1327 | 1313 | 1297 | 1280 | 1271 | 1260 | 1232 | 1238 | 1236 |
| 02 | 1212 | 1215 | 1219 | 1225 | 1226 | 1230 | 1233 | 1238 | 1243 | 1249 | 1252 | 1252 |
| 03 | 1219 | 1245 | 1278 | 1282 | 1284 | 1282 | 1276 | 1268 | 1258 | 1252 | 1249 | 1245 |
| 04 | 1245 | 1288 | 1297 | 1293 | 1297 | 1292 | 1286 | 1275 | 1260 | 1252 | 1249 | 1245 |
| 05 | 1321 | 1355 | 1327 | 1322 | 1322 | 1323 | 1310 | 1340 | 1344 | 1345 | 1345 | 1349 |
| 06 | 1353 | 1395 | 1358 | 1362 | 1368 | 1368 | 1371 | 1375 | 1379 | 1383 | 1384 | 1390 |
| 07 | 1438 | 1442 | 1448 | 1401 | 1405 | 1418 | 1414 | 1416 | 1422 | 1425 | 1429 | 1433 |
| 08 | 1474 | 1470 | 1466 | 1465 | 1461 | 1459 | 1457 | 1453 | 1453 | 1453 | 1450 | 1450 |
| 09 | 1446 | 1446 | 1444 | 1438 | 1442 | 1442 | 1442 | 1440 | 1438 | 1438 | 1438 | 1438 |
| 10 | 1442 | 1446 | 1438 | 1434 | 1438 | 1438 | 1438 | 1438 | 1438 | 1442 | 1440 | 1442 |
| 11 | 1537 | 1554 | 1595 | 1591 | 1528 | 1472 | 1450 | 1461 | 1472 | 1483 | 1502 | 1524 |
| 12 | 1059 | 1031 | 1011 | 950 | 898 | 844 | 747 | 714 | 651 | 625 | 595 | 545 |
| 13 | 488 | 495 | 488 | 481 | 473 | 473 | 469 | 469 | 466 | 466 | 469 | 473 |
| 14 | 492 | 482 | 499 | 499 | 510 | 516 | 525 | 532 | 544 | 553 | 562 | 569 |
| 15 | 592 | 586 | 597 | 597 | 603 | 614 | 629 | 636 | 644 | 651 | 665 | 670 |
| 16 | 697 | 688 | 707 | 707 | 716 | 725 | 735 | 746 | 755 | 768 | 785 | 794 |
| 17 | 822 | 811 | 837 | 837 | 859 | 848 | 888 | 903 | 931 | 955 | 955 | 968 |
| 18 | 959 | 961 | 948 | 948 | 970 | 992 | 1009 | 1022 | 1033 | 1041 | 1048 | 1072 |
| 19 | 1085 | 1085 | 1074 | 1074 | 1067 | 1069 | 1067 | 1063 | 1063 | 1061 | 1061 | 1059 |

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED METRES

RRS DISCOVERY CRUISE NO 47
DEPTH IN CORRECTED METRES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | 1059 | 1057 | 1059 | 1059 | 1059 | 1067 | 1071 | 1073 | 1075 | 1080 | 1080 | 1082 |
| 01 | 1082 | 1084 | 1089 | 1089 | 1091 | 1095 | 1100 | 1104 | 1102 | 1110 | 1110 | 1117 |
| 02 | 1116 | 1119 | 1121 | 1121 | 1121 | 1127 | 1125 | 1127 | 1125 | 1129 | 1130 | 1129 |
| 03 | 1134 | 1138 | 1138 | 1138 | 1143 | 1147 | 1145 | 1149 | 1149 | 1151 | 1155 | 1155 |
| 04 | 1149 | 1151 | 1155 | 1155 | 1153 | 1155 | 1153 | 1156 | 1158 | 1158 | 1158 | 1162 |
| 05 | 1166 | 1162 | 1166 | 1166 | 1169 | 1167 | 1169 | 1173 | 1179 | 1171 | 1184 | 1184 |
| 06 | 1192 | 1188 | 1195 | 1195 | 1195 | 1207 | 1195 | 1199 | 1199 | 1201 | 1201 | 1205 |
| 07 | 1207 | 1210 | 1210 | 1218 | 1222 | 1225 | 1226 | 1233 | 1233 | 1236 | 1231 | 1236 |
| 08 | 1248 | 1248 | 1248 | 1248 | 1244 | 1222 | 1216 | 1201 | 1201 | 1201 | 1205 | 1207 |
| 09 | 1197 | 1194 | 1186 | 1186 | 1182 | 1184 | 1184 | 1177 | 1177 | 1173 | 1173 | 1173 |
| 10 | 1171 | 1169 | 1168 | 1168 | 1168 | 1169 | 1168 | 1169 | 1166 | 1164 | 1162 | 1162 |
| 11 | 1162 | 1158 | 1155 | 1155 | 1158 | 1158 | 1158 | 1155 | 1151 | 1153 | 1153 | 1147 |
| 12 | 1151 | 1158 | 1147 | 1147 | 1143 | 1143 | 1143 | 1147 | 1143 | 1140 | 1136 | 1132 |
| 13 | 1130 | 1129 | 1114 | 1114 | 1129 | 1123 | 1123 | 1123 | 1121 | 1129 | 1129 | 1117 |
| 14 | 1088 | 1080 | 1076 | 1076 | 1076 | 1076 | 1069 | 1069 | 1065 | 1076 | 1085 | 1091 |
| 15 | 1058 | 1058 | 1058 | 1058 | 1050 | 1047 | 1056 | 1047 | 1044 | 1047 | 1043 | 1062 |
| 16 | 1036 | 1034 | 1028 | 1028 | 1024 | 1026 | 1024 | 1024 | 1024 | 1024 | 1026 | 1039 |
| 17 | 1032 | 1036 | 1045 | 1045 | 1047 | 1047 | 1045 | 1058 | 1084 | 1063 | 1050 | 1065 |
| 18 | 863 | 848 | 833 | 833 | 827 | 813 | 803 | 896 | 887 | 883 | 876 | 864 |
| 19 | 855 | 848 | 839 | 839 | 827 | 820 | 816 | 816 | 812 | 796 | 781 | 766 |
| 20 | 755 | 749 | 730 | 730 | 706 | 701 | 690 | 682 | 673 | 667 | 660 | 652 |
| 21 | 649 | 641 | 632 | 632 | 626 | 625 | 619 | 615 | 613 | 611 | 609 | 604 |
| 22 | 598 | 594 | 593 | 593 | 593 | 585 | 578 | 567 | 567 | 565 | 559 | 578 |

RCS DISCOVERY CRUISE NO 47
 DEPTH IN CORRECTED METRES

| HOURS | MINUTES | | | | | | | | | | | | DATE | 22-6-1972 | (DAY NO 174) | |
|-------|---------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------|--|
| | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | | | | |
| 00 | 572 | 589 | 577 | 581 | 549 | 547 | 545 | 538 | 529 | 532 | 518 | 529 | | | | |
| 01 | 529 | 536 | 532 | 529 | 544 | 557 | 557 | 553 | 558 | 562 | 562 | 562 | 562 | | | |
| 02 | 573 | 599 | 657 | 662 | 681 | 696 | 725 | 729 | 796 | 811 | 833 | 840 | | | | |
| 03 | 850 | 859 | 874 | 885 | 911 | 940 | 966 | 985 | 1002 | 1030 | 1054 | 1070 | | | | |
| 04 | 1082 | 1108 | 1132 | 1152 | 1167 | 1184 | 1200 | 1221 | 1241 | 1260 | 1278 | 1295 | | | | |
| 05 | 1316 | 1332 | 1355 | 1371 | 1394 | 1420 | 1438 | 1461 | 1483 | 1511 | 1532 | 1565 | | | | |
| 06 | 1591 | 1640 | 1662 | 1699 | 1725 | 1763 | 1722 | 1692 | 1768 | 1886 | 1880 | 1897 | | | | |
| 07 | 1931 | 1968 | 1998 | 2017 | 2047 | 2073 | 2110 | 2133 | 2133 | 2151 | 2215 | 2268 | | | | |
| 08 | 2318 | | | | | | | | | | | | | | | |

RRS DISCOVERY CRUISE NO 47
 DATE 24- 6-1972 (DAY NO 176)
 DEPTH IN CORRECTED METRES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 00 | | | | | | | | | | | | |
| 01 | 167 | 164 | 164 | 167 | 173 | 173 | 151 | 160 | 167 | 164 | 158 | |
| 02 | | | | | | | 164 | 156 | | | | 192 |
| 03 | | | | | | | | | | | | |
| 04 | | 184 | 207 | 196 | | | | | | | | |
| 05 | | 192 | | | | | | | | | | |
| 06 | 177 | | | 192 | 181 | 175 | 175 | 173 | 173 | | | |
| 07 | | | | | | | | | | | | |
| 08 | | | | | | | | | | 188 | | |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | 218 | 210 | 199 | 173 | 184 | 181 | 170 | 168 | 173 | 171 |
| 13 | 169 | 167 | 175 | 175 | 179 | 181 | 175 | 175 | 175 | 175 | 175 | 175 |
| 14 | 177 | 175 | 173 | 175 | 169 | 181 | 175 | 186 | 200 | 203 | 222 | 229 |
| 15 | 231 | 233 | 235 | 240 | 242 | 246 | 252 | 255 | 257 | 266 | 272 | 276 |
| 16 | 321 | 328 | 332 | 339 | 343 | 347 | 350 | 354 | 353 | 354 | 321 | 321 |
| 17 | 358 | 364 | 364 | 364 | 358 | 356 | 365 | 373 | 380 | 387 | 388 | 343 |
| 18 | 395 | 403 | 410 | 418 | 425 | 432 | 432 | 440 | 444 | 447 | 451 | 391 |
| 19 | 459 | 466 | 474 | 479 | 483 | 492 | 492 | 494 | 501 | 503 | 507 | 457 |
| 20 | 514 | 517 | 525 | 524 | 526 | 537 | 538 | 529 | 531 | 533 | 533 | 511 |
| 21 | 535 | 537 | 535 | 539 | 537 | 544 | 537 | 539 | 537 | 539 | 533 | 533 |
| 22 | 541 | 541 | 541 | 542 | 544 | 544 | 544 | 544 | 544 | 542 | 541 | 541 |

RRS DISCOVERY CRUISE NO 47
 DATE 25- 6-1972 (DAY NO 177)
 DEPTH IN CORRECTED METRES

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00 | | | | | | | | | | | | |
| 01 | 541 | 541 | 537 | 541 | 541 | 541 | 539 | 537 | 539 | 537 | 535 | 537 |
| 02 | 529 | 528 | 520 | 526 | 526 | 524 | 524 | 524 | 522 | 522 | 522 | 520 |
| 03 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 |
| 04 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 | 520 |
| 05 | 513 | 513 | 507 | 511 | 508 | 505 | 509 | 511 | 520 | 514 | 513 | 511 |
| 06 | 542 | 526 | 554 | 580 | 578 | 583 | 589 | 595 | 598 | 531 | 539 | 541 |
| 07 | 701 | 708 | 721 | 732 | 645 | 645 | 641 | 656 | 667 | 604 | 608 | 609 |
| 08 | 876 | 950 | 961 | 957 | 732 | 745 | 757 | 764 | 768 | 675 | 682 | 690 |
| 09 | 1036 | 1049 | 1078 | 1078 | 946 | 948 | 961 | 974 | 1009 | 779 | 786 | 842 |
| 10 | 1244 | 1264 | 1285 | 1309 | 1095 | 1110 | 1128 | 1142 | 1158 | 998 | 1009 | 1020 |
| 11 | 1417 | 1413 | 1402 | 1389 | 1382 | 1378 | 1368 | 1352 | 1343 | 1408 | 1421 | 1420 |
| 12 | 1315 | 1315 | 1322 | 1303 | 1300 | 1303 | 1307 | 1319 | 1328 | 1322 | 1328 | 1320 |
| 13 | 1341 | 1337 | 1328 | 1315 | 1316 | 1322 | 1324 | 1331 | 1333 | 1328 | 1333 | 1316 |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 1326 | 1326 | 1329 | 1324 | 1322 | 1328 | 1318 | 1322 | 1326 | 1326 | 1326 | 1326 |
| 19 | 1326 | 1326 | 1315 | 1316 | 1322 | 1324 | 1326 | 1326 | 1322 | 1326 | 1326 | 1316 |
| 20 | 1396 | 1303 | 1302 | 1296 | 1296 | 1300 | 1303 | 1302 | 1303 | 1300 | 1300 | 1301 |
| 21 | 1311 | 1307 | 1303 | 1300 | 1300 | 1300 | 1303 | 1302 | 1305 | 1307 | 1307 | 1307 |
| 22 | 1311 | 1307 | 1303 | 1300 | 1300 | 1303 | 1303 | 1311 | 1305 | 1303 | 1307 | 1307 |
| 23 | 1311 | 1307 | 1303 | 1300 | 1300 | 1303 | 1303 | 1318 | 1324 | 1329 | 1326 | 1333 |

RRS DISCOVERY CRUISE NO 47
 DATE 28- 6-1972 (DAY NO 180)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|---------------------------|-----|-----|------------|------------|------------|------------|------------|------------|------------|-------------------|-------------------|-------------------|
| DEPTH IN CORRECTED METRES | | | | | | | | | | | | |
| 00 | | | | | | | | | | | | |
| 01 | | | | | | | | | | | | |
| 02 | | | | | | | | | | | | |
| 03 | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | |
| 05 | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | |
| 07 | | 231 | 220 | 216 | 196 | 183 | 235 190 | 171 | 136*38 | 151*43 | 238 181 | 238 |
| 08 | 225 | | | | | | | | | | | |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 175 | 186 | 190 220 | 194 220 | 209 220 | 216 220 | 201 218 | 203 216 | 201 216 | 156 216 216 | 149 220 212 | 151 212 203 |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |

RRS DISCOVERY CRUISE NO 47
 DATE 29- 6-1972 (DAY NO 181)

| HOURS | 00 | 05 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DEPTH IN CORRECTED METRES | | | | | | | | | | | | |
| 00 | | | | | | | | | | | | |
| 01 | | | | | | | | | | | | |
| 02 | | | | | | | | | | | | |
| 03 | | | | | | | | | | | | |
| 04 | | | | | | | | | | | | |
| 05 | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 179 | 181 | 164 | 166 | 169 | 171 | 173 | 173 | 173 | 175 | 175 | 179 |
| 16 | 177 | 179 | 179 | 177 | 182 | 182 | 182 | 186 | 175 | 177 | 179 | 177 |
| 17 | 186 | 186 | 188 | 182 | 182 | 184 | 184 | 186 | 175 | 177 | 186 | 186 |
| 18 | 190 | 190 | 190 | 186 | 188 | 188 | 190 | 190 | 186 | 180 | 190 | 190 |
| 19 | | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 192 | 192 | 194 |
| 20 | | 194 | 194 | 194 | 194 | 194 | 194 | 190 | 194 | 194 | 192 | 194 |
| 21 | | 194 | 194 | 192 | 192 | 194 | 192 | 192 | 192 | 192 | 192 | 192 |
| 22 | 192 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 196 | 197 | 197 |
| 23 | 197 | 197 | 197 | 199 | 201 | 201 | 201 | 201 | 203 | 205 | 205 | 205 |

SECTION B

Station Position Tables

| | | |
|------------|-----------|---|
| <u>Key</u> | G | Grab |
| | SMI | Smith and McIntyre grab |
| | S | Shipek grab |
| | RC | Rock corer |
| | SC | Stereo camera |
| | Drill/UTV | IGS Minidrill/Underwater Television/Videotape system |
| | A | Anchor |

TABLE I

Cruise 47. Station Position List

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|------|----------------|---------|----------------|----------|--------------------------|--------------------------|-----------------------|-------------|---------|---------|--|
| | | | | From | To | Long. W | Lat. N | | UCF | CF | CM | |
| 7914 | G | SMI | 16.6.72 | 1308/168 | 1313/168 | 56°21.55'N 15°08.41'W | | I | 101 | 104 | 192 | 1 small pebble. |
| 7915 | A | - | 16.6.72 | 1400/168 | 1454/168 | 56°21.63'N 15°09.00'W | 56°21.75'N 15°07.87'W | I | 97-112 | 100-115 | 184-212 | Station abandoned, anchors dragged in heavy swell and wind conditions. |
| 7916 | RC | | 23.6.72 | 1955/175 | 2120/175 | 56°23.29'N 15°13.20'W | 53°23.26'N 15°13.02'W | Loran-C/ Satellite | 104-103 | 106-102 | 193-194 | A B No sample. Barrel damaged. C |
| 7917 | G | SMI S | 23.6.72 | 2028/175 | 2100/175 | 56°23.34'N 15°13.14'W | 53°23.3'N 15°13.01'W | " | 103 | 105 | 192 | A No sample. Changed from Smith McIntyre Shipok. B Gravel. |
| 7918 | G | S | 23.6.72 | 2145/175 | 2204/175 | 56°21.85'N 15°13.77'W | 56°21.83'N 15°13.69'W | " | 92- 94 | 94- 96 | 172-175 | A Carbonate/gravel. B Carbonate/gravel. |
| 7919 | RC | | 23.6.72 | 2204/175 | 2235/175 | 56°21.83'N 15°13.69'W | 56°21.8'N 15°13.47'W | " | 92- 96 | 94- 98 | 172-179 | A No sample. B No sample. C Pebble trapped in barrel. |
| 7920 | G | S | 23.6.72 | 2256/175 | 2306/175 | 56°22.09'N 15°11.92'W | 56°22.13'N 15°11.36'W | " | 92- 98 | 94-100 | 172-183 | A No sample. B Shelly sand. C Shelly sand. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|------|----------------|---------|----------------|----------|--------------------------|--------------------------|-----------------------|-------------|--------|---------|---|
| | | | | From | To | Long. W | Lat. N | | UCF | CF | CM | |
| 7921 | RC | | 23.6.72 | 2307/175 | 2320/175 | 56°22.13'N 15°11.36'W | 56°21.7'N 15°11.36'W | Loran-C/ Satellite | 93 | 95 | 173 | Sand and gravel. |
| 7922 | G | S | 24.6.72 | 0004/176 | 0015/176 | 56°19.29'N 15°10.50'W | 56°19.33'N 15°10.32'W | " | 97-102 | 99-104 | 182-190 | A No sample. B No sample. |
| 7923 | RC | | 24.6.72 | 0017/176 | 0032/176 | 56°19.37'N 15°10.32'W | 56°19.2'N 15°10.28'W | " | 103 | 105 | 192 | Coarse sand and mud. |
| 7924 | G | S | 24.6.72 | 0051/176 | 0100/176 | 56°18.37'N 15°12.52'W | 56°18.05'N 15°12.9'W | " | 85 | 87 | 159 | A No sample. B A few sand grains - discarded |
| 7925 | RC | | 24.6.72 | 0104/176 | 0156/176 | 56°18.09'N 15°12.95'W | 56°18.22'N 15°12.9'W | " | 87 | 89 | 162 | Core lost. Rock and sediment. |
| 7926 | G | S | 24.6.72 | 0215/176 | 0229/176 | 56°17.4'N 15°13.11'W | 56°17.5'N 15°13.06'W | " | 85 | 87 | 159 | A No sample. B A few sand grains |
| 7927 | RC | | 24.6.72 | 0231/176 | 0238/176 | 56°17.5'N 15°13.05'W | 56°17.56'N 15°13.04'W | " | 86 | 88 | 160 | Pebble and sediment. |
| 7928 | G | | 24.6.72 | 0258/176 | 0302/176 | 56°16.77'N 15°12.41'W | 56°16.8'N 15°12.41'W | " | 74 | 75 | 138 | No sample. |
| 7929 | RC | | 24.6.72 | 0305/176 | 0313/176 | 56°16.8'N 15°12.49'W | 56°16.8'N 15°12.5'W | " | 72-73 | 73-74 | 134-136 | A No core. B Rock (metamorphic & fish head). |
| 7930 | G | S | 24.6.72 | 0340/176 | 0350/176 | 56°16.69'N 15°13.07'W | 56°16.6'N 15°12.5'W | " | 88 | 90 | 164 | A No sample. B No sample. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|------|----------------|---------|----------------|----------|--------------------------|--------------------------|-----------------------|-------------|---------|---------|---|
| | | | | From | To | Long. W | Lat. N | | UCF | CF | CM | |
| 7931 | RC | | 24.6.72 | 0355/176 | 0417/176 | 56°16.53'N 15°12.53'W | 56°16.27'N 15°12.47'W | Loran-C/ Satellite | 82-88 | 84-90 | 153-164 | A No core. B No core. C Rocks (metamorphic). |
| 7932 | G | S | 24.6.72 | 0432/176 | 0440/176 | 56°14.91'N 15°12.21'W | 56°14.91'N 15°12.21'W | " | 82 | 84 | 153 | No sample. |
| 7933 | RC | | 24.6.72 | 0444/176 | 0449/176 | 56°14.76'N 15°12.16'W | 56°14.76'N 15°12.16'W | " | 82 | 84 | 153 | Hard blocky material. Metamorphic fragments. |
| 7934 | G | S | 24.6.72 | 0525/176 | 0530/176 | 56°13.62'N 15°15.8'W | 56°13.6'N 15°15.8'W | " | 96 | 98 | 179 | No sample. |
| 7935 | RC | | 24.6.72 | 0533/176 | 0550/176 | 56°13.6'N 15°15.8'W | 56°13.5'N 15°15.8'W | " | 98-101 | 100-103 | 183-188 | A No sample. B Shelly green-black sand. |
| 7936 | G | S | 24.6.72 | 0615/176 | 0629/176 | 56°15.6'N 15°14.6'W | 56°15.6'N 15°14.5'W | " | 99 | 101 | 185 | A Small volume of fine sand. B No sample. C Small volume of fine sand. |
| 7937 | RC | | 24.6.72 | 0639/176 | 0655/176 | 56°15.6'N 15°14.4'W | 56°15.6'N 15°14.3'W | " | 98-99 | 100-101 | 183-185 | A Compact white ooze core (3") & green brown sediment. B Semi-consolidated coarse iron-stained white ooze. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N Long. W to Lat. N Long. W | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|------|----------------|---------|----------------|----------|--|-----------------------|-------------|---------|---------|--|
| | | | | From | To | | | UCF | CF | CM | |
| 7938 | G | S | 24.6.72 | 0726/176 | 0734/176 | 56 ^Q 17.4 ^N 15 ^Q 14.3 ^W to 56 ^Q 17.38 ^N 15 ^Q 14.4 ^W | Loran-C/ Satellite | 92 | 94 | 172 | No sample. |
| 7939 | RC | | 24.6.72 | 0738/176 | 0752/176 | 56 ^Q 17.4 ^N 15 ^Q 14.4 ^W to 56 ^Q 17.3 ^N 15 ^Q 14.4 ^W | " | 91 | 93 | 170 | A No core. B No core. |
| 7940 | G | S | 24.6.72 | 0828/176 | 0848/176 | 56 ^Q 19.4 ^N 15 ^Q 15.6 ^W to 56 ^Q 19.3 ^N 15 ^Q 15.6 ^W | " | 105 | 107 | 196 | A Sample. B Sample. |
| 7941 | RC | | 24.6.72 | 0857/176 | 0924/176 | 56 ^Q 19.2 ^N 15 ^Q 15.5 ^W to 56 ^Q 19.2 ^N 15 ^Q 15.8 ^W | " | 107 | 109 | 200-201 | A No core. B No core. |
| 7942 | G | S | 24.6.72 | 0953/176 | 1020/176 | 56 ^Q 20.3 ^N 15 ^Q 13.1 ^W to 56 ^Q 20.6 ^N 15 ^Q 13.2 ^W | " | 99 | 101 | 185 | A No sample. B No sample. C |
| 7943 | RC | | 24.6.72 | 1020/176 | 1045/176 | 56 ^Q 20.6 ^N 15 ^Q 13.2 ^W to 56 ^Q 20.6 ^N 15 ^Q 12.75 ^W | " | 92-102 | 94-104 | 172-190 | A No core. B No core. |
| 7944 | G | S | 24.6.72 | 1124/176 | 1143/176 | 56 ^Q 23.2 ^N 15 ^Q 14.9 ^W to 56 ^Q 23.2 ^N 15 ^Q 14.9 ^W | " | 110 | 112 | 205 | A No sample. B No sample. C |
| 7945 | RC | | 24.6.72 | 1151/176 | 1210/176 | 56 ^Q 23.28 ^N 15 ^Q 14.68 ^W to 56 ^Q 23.3 ^N 15 ^Q 14.4 ^W | " | 112-115 | 114-117 | 209-215 | A No core. B No core. |
| 7946 | G | S | 24.6.72 | 1310/176 | 1336/176 | 56 ^Q 22.35 ^N 15 ^Q 11.9 ^W to 56 ^Q 22.4 ^N 15 ^Q 12.45 ^W | " | 94 | 96 | 175 | A Medium carbonate sand. B Carbonate sand & rock fragments. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|---------------|----------------|---------|----------------|----------|-------------------------|-------------------------|-----------------------|-------------|-----|-----|--|
| | | | | From | To | Long. W | Lat. N | | UCF | CF | CM | |
| 7947 | RC | | 24.6.72 | 1340/176 | 1357/176 | 56°22.4'N 15°12.37'W | 56°22.4'N 15°12.37'W | Loran-C/ Satellite | 92 | 94 | 172 | Metamorphic rocks. |
| 7948A | G | SMI | 27.6.72 | 1540/179 | 1545/179 | 56°23.2'N 15°11.6'W | | " | 98 | 100 | 183 | A Coarse sand & dark pebbles & epifauna. |
| 7948B | G | SMI | 27.6.72 | 1645/179 | 1700/179 | " | | " | 106 | 108 | 198 | B No sample. |
| 7948C | G | SMI | 27.6.72 | 1715/179 | 1720/179 | " | | " | 106 | 108 | 198 | C No sample. |
| 7948D | G | SMI | 27.6.72 | 1730/179 | 1742/179 | " | | " | 105 | 107 | 196 | D Medium coarse carbonate sand & 1 large echinoid. |
| 7948E | G | SMI | 27.6.72 | 1755/179 | 1805/179 | " | | " | 105 | 107 | 196 | E Coarse gravel & carbonate. |
| 7948F | G | SMI | 27.6.72 | 2110/179 | 2125/179 | " | | " | 104 | 106 | 194 | F Pebbles & rich epifauna. |
| 7948G | G | SMI | 27.6.72 | 2201/179 | 2215/179 | " | | " | 104 | 106 | 194 | G Coarse sand & pebbles. |
| 7949A | Drill/ UTV | | 27.6.72 | 1830/179 | 2018/179 | " | | " | 104 | 106 | 194 | A Sediment bottom. 2 pebbles recovered. |
| 7949B | Drill/ UTV | | 27.6.72 | 2255/179 | 2325/179 | " | | " | 104 | 106 | 194 | B Lost drill barrel. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|------|----------------|---------|----------------|----------|------------------------|-----------------------|-------------|-----|-----|--------------------------------------|
| | | | | From | To | | | UCF | CF | CM | |
| 7950A | G | SMI | 28.6.72 | 0200/180 | 0209/180 | 56°24'N 14°58.2'W | Loran-C/ Satellite | 108 | 110 | 201 | A Medium carbonate sand. |
| 7950B | G | SMI | 28.6.72 | 0221/180 | 0230/180 | " | " | 108 | 110 | 201 | B Medium sand & transparent animals. |
| 7951A | G | SMI | 28.6.72 | 0326/180 | 0333/180 | 56°18.6'N 14°48.4'W | " | 112 | 114 | 210 | A Fine sand & live echino-derm. |
| 7951B | G | SMI | 28.6.72 | 0340/180 | 0349/180 | " | " | 112 | 114 | 210 | B Fine sand. |
| 7952A | G | SMI | 28.6.72 | 0442/180 | 0455/180 | 56°15.0'N 14°58.2'W | " | 118 | 120 | 220 | A No sample. |
| 7952B | G | SMI | 28.6.72 | 0500/180 | 0509/180 | " | " | 118 | 120 | 220 | B No sample. |
| 7953A | G | SMI | 28.6.72 | 0611/180 | 0621/180 | 56°10.2'N 15°08.0'W | " | 123 | 125 | 229 | A No sample. |
| 7953B | G | SMI | 28.6.72 | 0630/180 | 0635/180 | " | " | 123 | 125 | 229 | B 1 unidentified animal. |
| 7954A | G | SMI | 28.6.72 | 0727/180 | 0735/180 | 56°11.5'N 15°17.4'W | " | 126 | 129 | 235 | A Fine sand. |
| 7954B | G | SMI | 28.6.72 | 0740/180 | 0747/180 | " | " | 126 | 129 | 235 | B No sample. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|---------------|----------------|---------|----------------|----------|-------------------------|-----------------------|-------------|-----|-----|---|
| | | | | From | To | | | UCF | CF | CM | |
| 7955A | Drill/ UTV | | 28.6.72 | 1013/180 | 1050/180 | 56°16.5'N 15°11.80'W | Loran-C/ Satellite | 79 | 81 | 147 | A 10 cm of plagioclase-garnet granulite. |
| 7955B | Drill/ UTV | | 28.6.72 | 1442/180 | 1500/180 | " | " | 84 | 86 | 157 | B) Electrical failures - C) drilling aborted. |
| 7955C | Drill/ UTV | | 28.6.72 | 1614/180 | 1638/180 | " | " | 84 | 86 | 157 | |
| 7955D | Drill/ UTV | | 28.6.72 | 1912/180 | 2027/180 | " | " | 82 | 84 | 153 | D Approx. 40 cm penetration into rock. Loss of barrel & core during retraction. |
| 7960A | G | SMI | 29.6.72 | 0435/181 | 0450/181 | 56°57.0'N 14°42.8'W | " | 93 | 95 | 173 | A 1 subangular metamorphic rock and epifauna. |
| 7960B | G | SMI | 29.6.72 | 0455/181 | 0500/181 | " | " | 93 | 95 | 173 | B Fine sand and gravel. |
| 7961A | G | SMI | 29.6.72 | 0605/181 | 0610/181 | 57°01.0'N 14°52.7'W | " | 140 | 143 | 261 | A No sample. |
| 7961B | G | SMI | 29.6.72 | 0620/181 | 0629/181 | " | " | 140 | 143 | 261 | B Stiff green carbonate sand. |
| 7962A | G | SMI | 29.6.72 | 0730/181 | 0745/181 | 57°06.9'N 14°49.2'W | " | 162 | 165 | 302 | A No sample. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|------|----------------|---------|----------------|----------|-------------------------|-----------------------|-------------|-----|-----|---|
| | | | | From | To | | | UCF | CF | CM | |
| 7962B | G | SMI | 29.6.72 | 0747/181 | 0755/181 | 57°06.9'N 14°49.2'W | Loran-C/ Satellite | 162 | 165 | 302 | B Stiff green carbonate sand. |
| 7963A | G | SMI | 29.6.72 | 0850/181 | 0900/181 | 57°04.9'N 14°37.8'W | " | 102 | 104 | 190 | A Sand and rock fragments. |
| 7963B | G | SMI | 29.6.72 | 0903/181 | 0908/181 | " | " | 102 | 104 | 190 | B Small sand sample. |
| 7956A | | SMI | 28.6.72 | 1115/180 | 1125/180 | 56°16.5'N 15°11.80'W | " | 79 | 81 | 147 | A No sample. |
| 7956B | | SMI | 28.6.72 | 1130/180 | 1143/180 | " | " | 79 | 81 | 147 | B 1 jellyfish. |
| 7956C | | SMI | 28.6.72 | 1710/180 | 1720/180 | " | " | 79 | 81 | 147 | C Carbonate sand & shells. |
| 7956D | | SMI | 28.6.72 | 1734/180 | 1742/180 | " | " | 79 | 81 | 147 | D Bryozoa fragments and sponge. |
| 7957 | SC | SMI | 28.6.72 | 1300/180 | 1423/180 | " | " | 80 | 82 | 149 | 38 stereopairs. |
| 7958A | G | SMI | 29.6.72 | 0012/181 | 0020/181 | 56°31'N 15°02'W | " | 108 | 110 | 202 | A Medium carbonate sand. |
| 7958B | G | SMI | 29.6.72 | 0032/181 | 0040/181 | " | " | 110 | 112 | 205 | B Medium carbonate sand & transparent animal. |

| Station No. | Type | Equipment Used | Date | Time Z/Day No. | | Lat. N to Long. W | D/B /NAVAID Used | Depth Range | | | Comments |
|-------------|---------------|----------------|---------|----------------|----------|--------------------------|-----------------------|-------------|--------|---------|--|
| | | | | From | To | | | UCF | CF | CM | |
| 7959A | G | SMI | 29.6.72 | 0210/181 | 0220/181 | 56°41.5'N 14°31.5'W | Loran-C/ Satellite | 101 | 103 | 188 | A Coarse sand & small pebbles. |
| 7959B | G | SMI | 29.6.72 | 0225/181 | 0232/181 | " | " | 101 | 103 | 188 | B 3 sub-angular metamorphic rocks with epifauna. |
| 7964 | Drill/ UTV | | 29.6.72 | 1229/181 | 1333/181 | 57°04.27'N 14°31.95'W | " | 80- 81 | 82- 83 | 149-151 | 17 cm of micro-perthite granulite. |