

'GLORIA' STUDIES OF THE MID-ATLANTIC RIDGE
(FAMOUS AREA) AND THE AZORES-GIBRALTAR PLATE BOUNDARY

P. R. MILES

Data collected by R. R. S. Discovery - Cruise 54

June - August, 1973

I.O.S. DATA REPORT NO. 8

1976

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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 I. O. S. 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 On citing this report in a bibliography the reference should be followed by the words "UNPUBLISHED MANUSCRIPT" in accordance with accepted bibliographic custom.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, seismic and bathymetric data collected during Cruise 54 on R. R. S. Discovery in June - August, 1973. 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.

PREVIOUS REPORTS

NIO DATA REPORT	Geophysics	1
NIO DATA REPORT	"	2
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Series continues with

IOS DATA REPORT Nº 8

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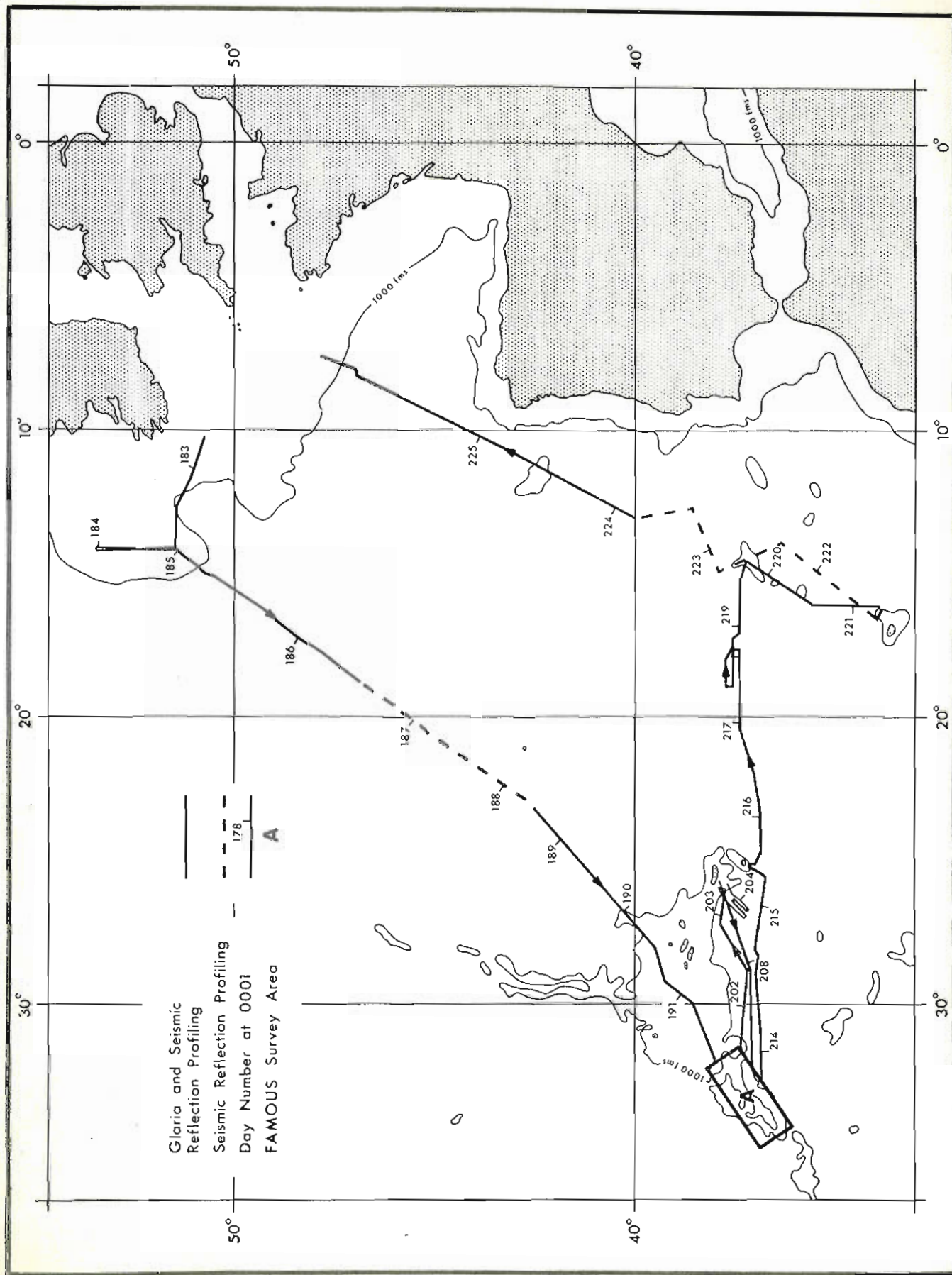


Fig (1)

CRUISE OBJECTIVES

The principal objective of the cruise was to use GLORIA to make a long range side-scan sonar survey of an area on the mid-Atlantic Ridge SW of the Azores. This area was chosen for study as part of the Franco American Mid-Ocean Undersea Study (FAMOUS) programme. This programme, organised by the Woods Hole Oceanographic Institution, USA and the Centre National de L'Exploitation des Oceans, France, has as its main aim, the study of the accreting margin of the lithospheric plate in the median valley of the mid-Atlantic Ridge by close observation of the sea bed with sampling using deep submersibles and near bottom instruments. Additional geophysical surveys including seismic reflection, seismic refraction, magnetics and bathymetry measurements were undertaken in the FAMOUS area and over the Porcupine Bank and Kings Trough regions on passage.

(a) GLORIA Survey of FAMOUS Area

The survey by side-scan sonar was planned to provide a mosaic of overlapping sonographs of the entire 60 by 100 mile FAMOUS area to delineate more clearly the trends of the ridges parallel to the median valley and of the fracture zones. Secondly, detailed studies of the median valley were planned using the shorter ranges and higher resolution of GLORIA. (Laughton & Rusby 1975)

(b) Underwater Photography in the FAMOUS Area

Camera traverses were planned across features revealed by the GLORIA survey to identify the nature of targets giving acoustic echoes.

(c) Seismic Refraction Studies in the FAMOUS Area

Seismic lines using pop-up bottom seismic recorders (PUBS) were laid in the median valley to determine structure and locate the magma chambers in the neighbouring ridges and across the valley. Microearthquakes were expected during recording time. (Whitmarsh 1973) (Whitmarsh 1975)

(d) Site Selection for "Deep Drill 1974"

Seismic reflection profiles and a seismic refraction line were planned to locate a suitable site for drilling into layer 2 to be occupied by the Deep Sea Drilling Project in the summer of 1974.

(e) GLORIA Traverses Outside FAMOUS Area

It was the intention to obtain as much coverage with GLORIA as possible

on passage, especially on the route across the Azores Plateau near the mid-Atlantic Ridge and along the Azores-Gibraltar plate boundary, including fracture zones south of this.

(f) ----- Seismic Reflection Profiles

Profiling was intended whenever possible both in the FAMOUS area and on passage.

(g) ----- Seismic Refraction Studies of Porcupine Bank

The reversal of a refraction line shot by HMS Hecla in April 1973.

(h) ----- Echo-sounding and Magnetic Measurements

These were to be made throughout the cruise to add to the study of the bathymetry and magnetic field of the Northeast Atlantic.

(i) ----- Electric Self-potential Measurements on the Sea Floor

Electrodes were to be towed along the sea floor in the FAMOUS area as part of a Cambridge University research project.

(j) ----- Velocimeter

Vertical profiles of the velocity of sound in the sea are required for the interpretation of both GLORIA and PUBS results and were to be recorded as necessary.

INSTRUMENTATION

Magnetics: A Varian V-75 proton magnetometer was operated throughout the cruise, an early breakdown requiring the replacement of the preamp and relay board. Minor faults were also found and corrected on the magnetometer/computer interface. The data were recorded in analogue form on a chart recorder and also stored in digital form on the shipboard computer as spot two minute values. Erroneous data, normally caused by radio transmission interference from the ship, were 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 I. O. S. Mark III Precision Echo-Sounder was used to record continuous echo-soundings on a Mufax display at an assumed velocity of 800 fms/sec. Except when the ship was on station, readings were made at two or six minute intervals and manually entered into the computer which now operates on even minute intervals. Matthews corrections were automatically applied by the computer from the navigation data.

NAVIGATION

The following navigational aids were used:-

- (a) Satellite Navigation System using two Magnavox 702CA receivers working in conjunction with the shipboard IBM 1800 computer.
- (b) Decca Irish navigation chain 7D when in range.
- (c) Redifon Omega navigation NV1 was assessed throughout the cruise.
- (d) Anchored danbuoys with radar transponders (Decca-Alpine).

The computer was used throughout the cruise to control the navigation and regular checks were made on its performance using manually prepared bridge plots. The satellite navigation was used as the prime navaid throughout the cruise providing about 15 acceptable fixes each day although gaps of up to six hours between satellite passes were experienced.

The ship's position was determined from satellite fixes used in conjunction with a dead reckoning derived by the computer from inputs of the IOS two component EM log and the gyrocompass. For each accepted satellite pass the dead reckoning track was automatically adjusted by the computer to agree with the satellite fixes, the amount of adjustment being attributed to a 'current' which was used to compute adjusted values of the ship's position at two minute intervals. As the computed 'current' can be considered the sum of actual ocean current, satellite fix error and EM log calibration error, all satellite fixes giving rise to a current of greater than 2 knots were rejected as erroneous. After a track update, dead reckoning continues from the last accepted satellite fix.

SHIPBOARD ACQUISITION, REDUCTION AND STORAGE OF DATA

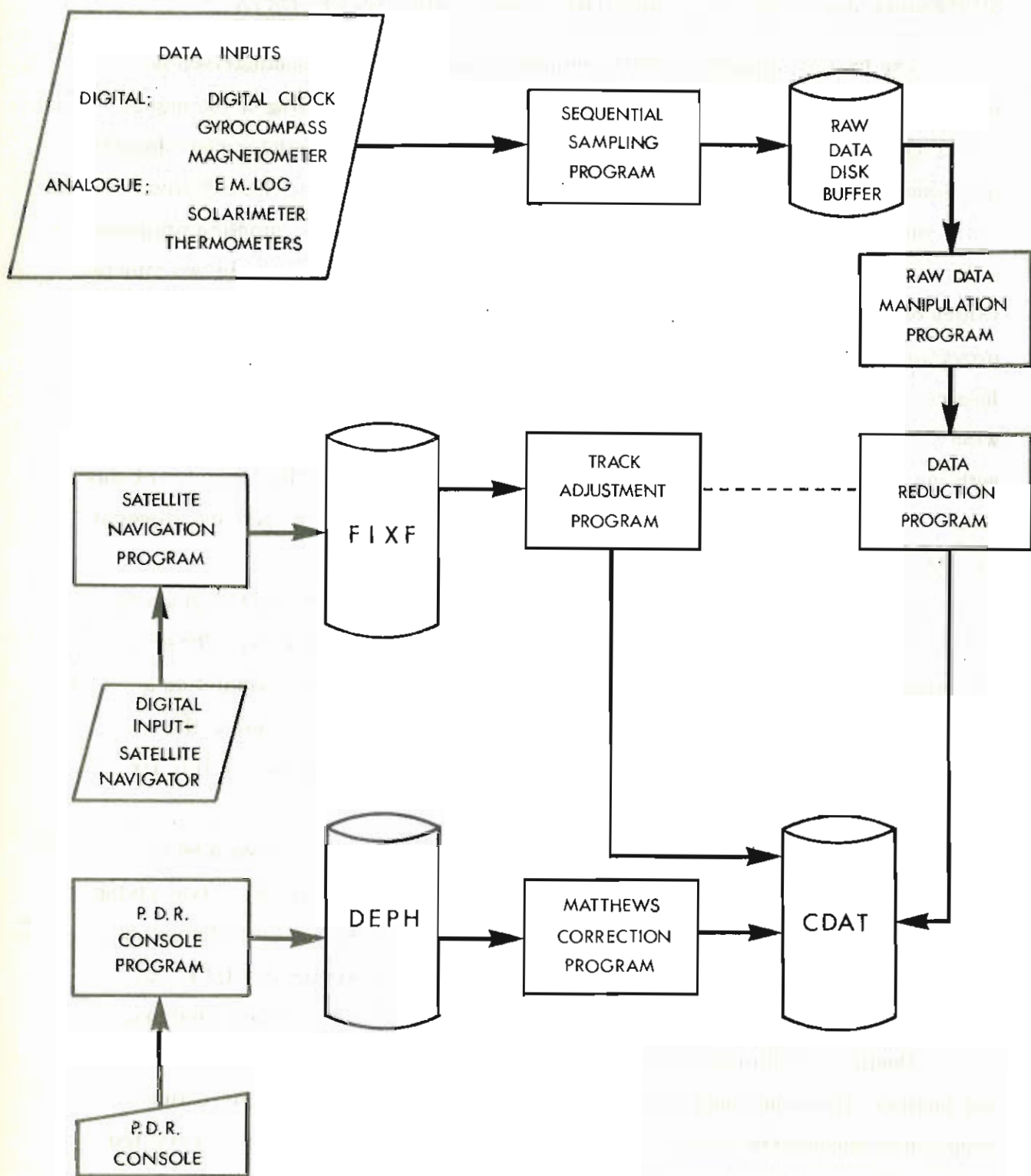
The basic configuration of the shipboard data system is summarised in figure (2). The Sequential Sampling Program controls the sampling of the digital clock, gyrocompass, magnetometer, two component EM log and the meteorological instruments, buffering the data to a raw data disk buffer. Two of these buffers share the data sampling, each for two minute intervals when the sampling program switches buffer and initiates the raw data manipulation program to yield two minute values of the sampled variable. The data are then processed in the data reduction program to reduce total magnetic field values to anomaly 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. The corrected data, together with the day number and time are written to the processed data file, CDAT. At this stage the program also updates the dead reckoning position of the ship and stores it in CDAT.

When the satellite receiver locks onto 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 during a satellite pass and on completion a series of programs are executed to decode the information and calculate the geographical position. A summary of the data is then stored on the satellite fix file FIXF.

After each satellite pass the Track Adjustment Program is executed to update and adjust the dead reckoning to agree with the satellite fixes. Fixes giving 'currents' of greater than 2 knots are rejected, and adjusted values of position, course made good, speed made good and distance run are written to CDAT, the data reduction program being recalled to adjust IGRF for anomaly calculations.

Depths are entered manually into the system through the PDR Console as day number, time and depth (uncorrected fathoms). The Matthews Correction Program is executed to convert the depth data to corrected fathoms and corrected metres, computer approximated curves being used in the application of the correction (Howarth 1970), and depth data is entered to CDAT during each course update.

General purpose plotting programs are available under the MPX operating



Fig(2) SHIPBOARD AQUISITION, REDUCTION & STORAGE OF DATA

system to display data stored on the CDAT disk files. Profiles of the observed variables against either time or distance can be plotted and Mercator projection track charts with, if required, plotted numerical values of an observed variable may be generated. During cruise 54, a complete series of 1:1,000,000 track charts and profiles of geophysical and meteorological variables were produced for both immediate interpretation and identifying errors in the stored data.

CONTENTS OF SHIPBOARD DATA FILES (CDAT)

CDAT is the main corrected data file containing 53 words per record and a nominal data frequency of two minutes.

<u>Word</u>	<u>Field</u>	<u>Unit</u>
1	Day	
2	Time	Minutes *10
3	Latitude	Degrees
4	Latitude	Minutes *100
5	Longitude	Degrees
6	Longitude	Minutes *100
7	Navigational Status	
8 - 13	Status of data in words 14 - 53	
16	Gyro in Use	Degrees *10
17	Course through Water	Degrees *10
18	Speed through water	Knot *100
19	Course made Good	Degrees *10
20	Speed made Good	Knot *100
21	EM Log Velocity North	Knot *100
22	EM Log Velocity East	Knot *100
23	Corrected Wind Speed	Knot *100
24	Corrected Wind Direction	Degrees *10
25	Thermometer Starboard. Dry	°C *10
26	Thermometer Starboard. Dry-wet	°C *10
27	Thermometer Port. Dry	°C *10
28	Thermometer Port. Dry-wet	°C *10
29	Spare	
30	Magnetic Field	Gamma/2
31	Magnetic Anomaly	Gamma
32	Blank	
33	Relative Wind North	Knot *100

<u>Word</u>	<u>Field</u>	<u>Unit</u>
34	Relative Wind East	Knot *100
35	Solarimeter	mW*10 x cm ²
36	Uncorrected Depth	Fathom
37	Corrected Depth	Fathom
38	Matthews Area	
39	Distance run in Day	Mile *100
40	Barometric Pressure	Mbar *10
41	Hull Temperature	°C *100

EDITING OF DATA FILES

Navigation, bathymetric and magnetic data was edited on board using the MPX operating system. The procedure involved generation of navigation plots, bathymetric lists and magnetic profiles every 24 hours and their systematic analysis for errors.

Navigation was assessed by inspecting plots of corrected D. R. data for spurious values of speeds and courses usually in the form of spikes, and by comparing a running plot kept by the bridge with daily computed plots of the ship's track and satellite fixes at a scale of 1 in 1 x 10⁶. The computer automatically rejected fixes which gave rise to apparent currents between fixes of greater than 2 knots. Other satellite fixes were manually rejected because of too low or too higher elevation. Whenever a fix was manually rejected or accepted, an off-line program was run to do the course corrections and recompute regional magnetic fields and Matthews Area corrections.

The stored total magnetic field values were plotted in the same form as that on the chart recorder of the magnetometer. The two records were compared for differences and in this way errors, normally in the form of data spikes, were detected and corrected.

The P. E. S. record was removed from the Mufax recorder daily and checked for mistakes. The record was then compared with a list of depths logged in the CDAT file. Any corrections were re-entered via the P. E. S. input console and written into the CDAT file during the next course correction update.

Large scale charts of ship's track and depth were plotted for the geophysical survey area and 1 in 1 x 10⁶ tracks of the complete cruise were drawn on Admiralty plotting sheets.

DATA TRANSFER TO NATIONAL ACADEMY OF SCIENCES FORMAT

Once edited the magnetic, bathymetric and navigational data stored on disk are transferred to cards in the National Academy of Sciences merged-merged format using the program MMERG. The format has a certain degree of national and international acceptance and as such is useful for data exchange purposes.

Each data record consists of a card punched:-

<u>CC</u>	<u>Description</u>	<u>Notes</u>
1- 8	Ship, cruise and identification	
9-13	Time zone. GMT = 00	Format \pm F4.2 *
14-15	Year	Last two digits
16-17	Month	Format I2
18-19	Day	Day of month
20	Blank	
21-22	Hour	
23-25	Minute	Format F3.1 *
26-33	Latitude, north + ve	Format \pm F6.4
34-42	Longitude, east +ve	Format \pm F7.4
43	Navigation point identification	1 for fix; 2 for course change O/blank for data point
44	Fix description	9 for satellite
45-52	Blank	
53-57	Uncorrected fathoms	Format F5.1 *
58-62	Corrected Metres	Format I5
63-64	Matthews Area	Format I2
66-70	Total magnetic field, Gammas	Format I5
71-75	Magnetic anomaly	Format \pm I4
76-80	Free air anomaly	Format \pm I4 *

* decimal points are implied.

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 bathymetric, magnetic and seismic data of Cruise 54. Because of the large volume of data involved, it is not considered practical to include listings of the original CDAT data files. The data is presented at three levels of processing:

- (a) Summarised listings of raw data.
- (b) Summarised listings of reduced data.
- (c) Profiles of reduced data.

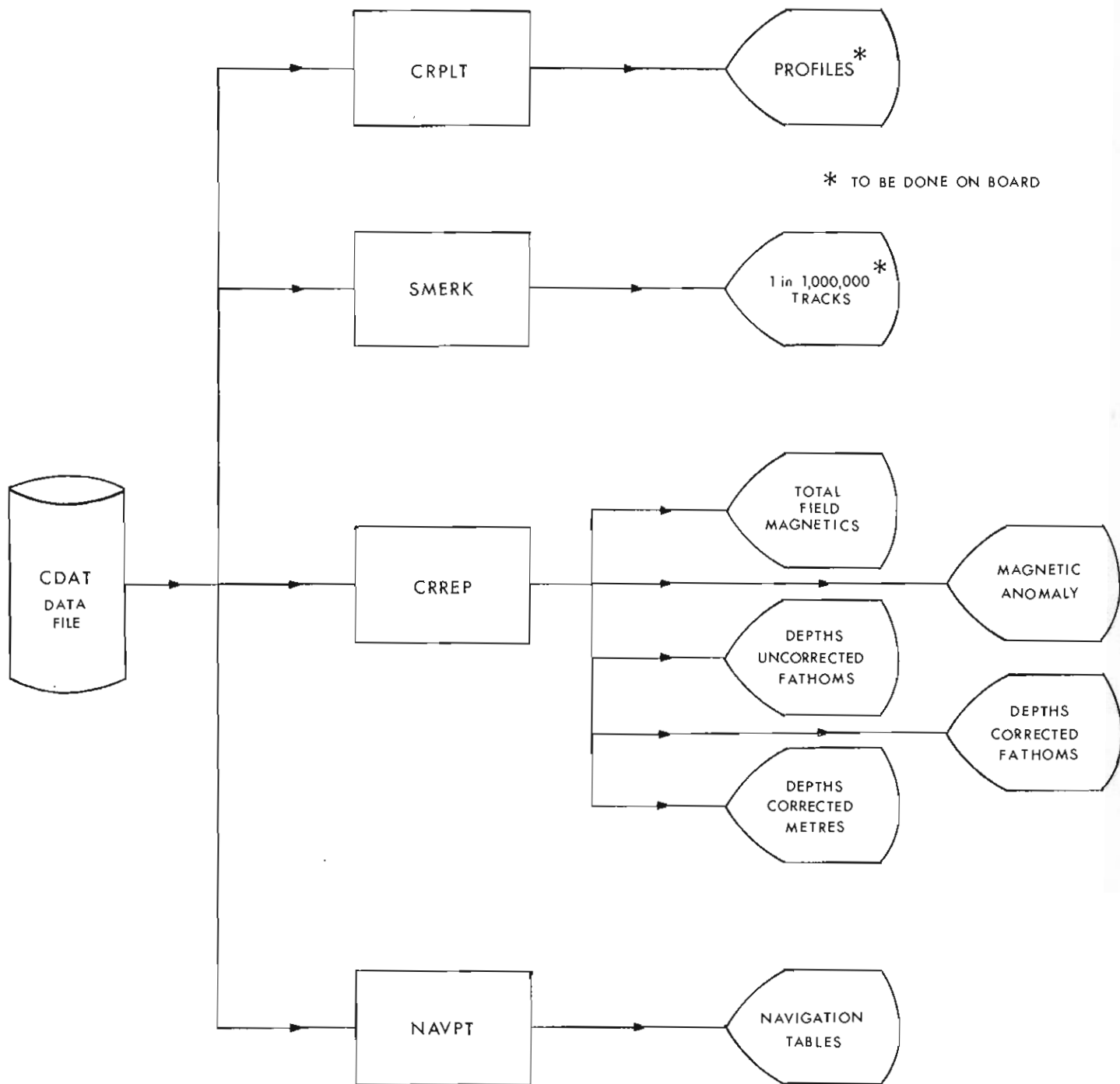
The computing aspects of the data presentation are given in Figure(3). It is intended that when used in conjunction with either the 1:1,000,000 track charts or the navigation tables produced by NAVPT, the data should be suitable for incorporation into compilation charts or further computer orientated calculations. For a more direct scientific interpretation of the data, the 1:2,000,000 profiles are supplemented with a track chart at the same scale overlain on a bathymetric chart. Reduced copies of the original PDR records are also included in the report to enable study of the bathymetry in more detail than is given by either the profiles or the listing. Reduced copies of the seismic reflection records complete the data.

1. Profile Location Sheets

The ship's track for Cruise 54 has been manually prepared on bathymetric charts of 1:2,000,000 at standard latitudes of 57°N and 46°N. Except for the 100 fathom contour, the contour interval is 500 fathoms which illustrates the prominent features of the sea floor relief and provides 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 sheets and are identified on the track by a circled figure representing the start of each profile. Changes in day number are also shown on the tracks by a mark at 0000 hrs annotated with the new day number. Details of the FAMOUS survey area are included as an insert on the main profile location sheet.

2. Section A

This section contains profiles together with reduced copies of the original PDR records. Magnetic anomaly, corrected depth, course made good and speed made good were plotted from the edited CDAT file using CRPLT. The parameters



Fig(3) DATA DISPLAY

are each plotted against distance run along track in nautical miles from the start of a leg - the distance being scaled to a 1:2,000,000 Mercator grid at 57°N and 46°N for track north and south of latitude 48°N respectively enabling the profiles to be overlain on the profile location sheets. The distance run axis is marked every 100 n. miles and annotated every 500 n. miles, a time axis in GMT is also included so that the profiles can be correlated with the PDR records and tabular listings of data in sections C and D. The magnetic anomaly is plotted at a scale of 400 γ /inch with a nominal range of - 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 CDAT. Each two minute magnetic anomaly value is plotted but the pen is lifted each time there is a data gap in excess of four 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 exaggerations of the bathymetric profiles are 13.9:1 at 57°N and 11:1 at 46°N. As depth is not continuously recorded at two minute intervals, each depth reading is marked on the profile by a small tick and successive readings are joined by a straight line. Gaps in data, therefore, appear as straight lines without tick marks.

Each profile is accompanied on the facing page by a reduced copy of the relevant section of the PDR record. As the PDR records against time and not distance, it is impractical to provide a one to one correspondence in horizontal axis scale between the profiles and PRD records. Correlation between the two have to be made by time, the PDR records are, therefore, annotated with hour marks. The recording depth phase of the PDR records are also shown, the 100 fathom lines within this phase are discernable on the original record as horizontal lines.

3. Section B

This section contains a listing of the significant navigation points and computer generated navigation track charts. The navigation points were selected from the CDAT file using NAVAD and provide a linearly interpolatable track to within 0.25 n. miles of that contained in CDAT. The track charts were plotted from the two minute positions in CDAT using SMERK and are scaled at 1:1,000,000 at the relevant standard latitude. Each hour is marked on the track and annotated,

the day number being given every six hours. The positions of accepted satellite fixes were automatically plotted on the track charts with time in hours and minutes.

4. ----- Section C

This section contains tabulated six-minute listings of the uncorrected magnetic and bathymetric data. All data presented in sections C and D has been produced using CRREP on CDAT. The data file is searched for significant maxima or minima not sampled on the six-minute interval and these are written into the field of the nearest six-minute sample followed by an asterisk and the time recorded as minutes past the hour.

5. ----- Section D

This section tabulates six-minute listings of the reduced magnetic and bathymetric data. Magnetic anomaly (total magnetic field minus the International Geomagnetic Reference Field) and the corrected depth in both fathoms and metres are read from CDAT.

6. ----- Section E

This section contains station data tables.

7. ----- Section F

This section contains reduced seismic reflection profiling records annotated with hours and day number, the records' trace time being given in seconds.

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SECTION A

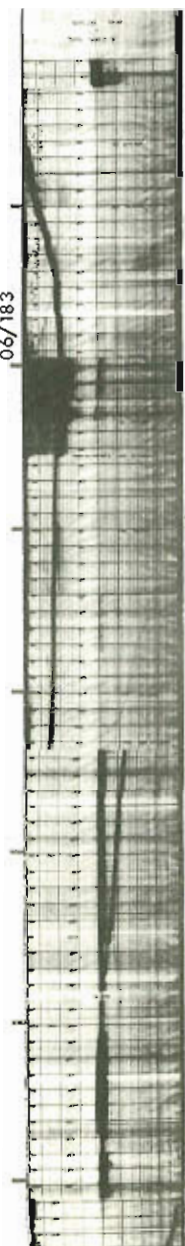
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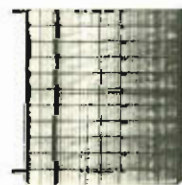
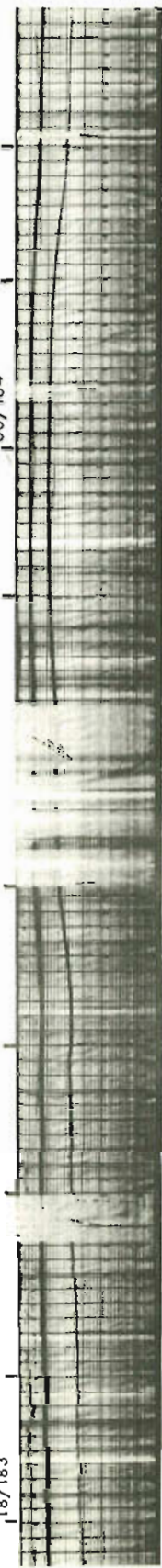


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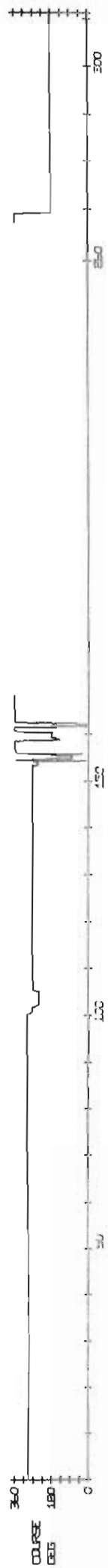
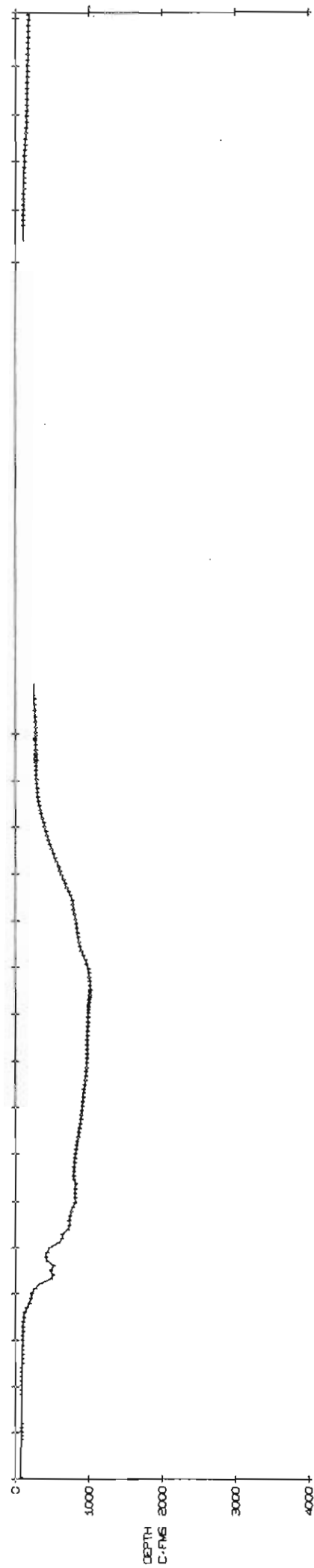
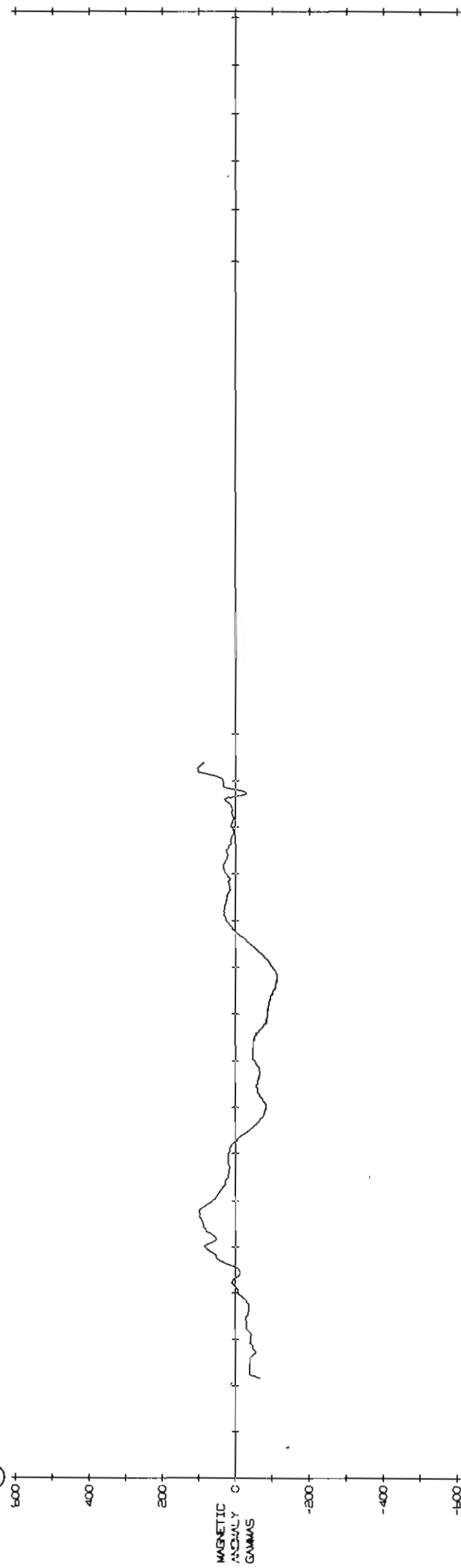


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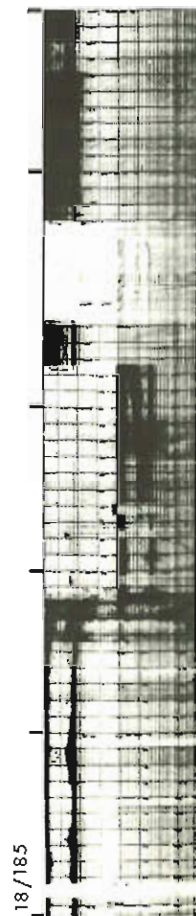
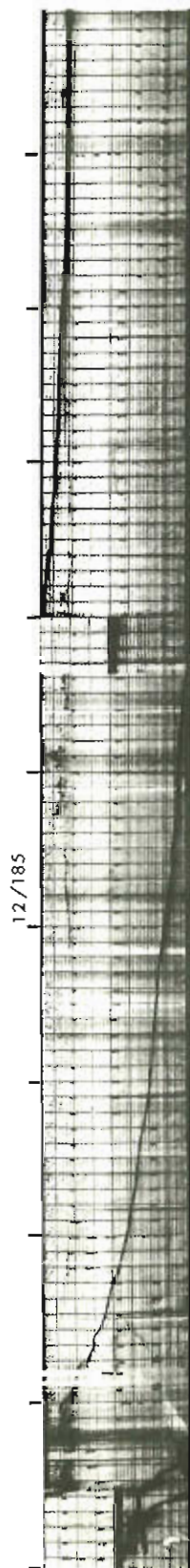
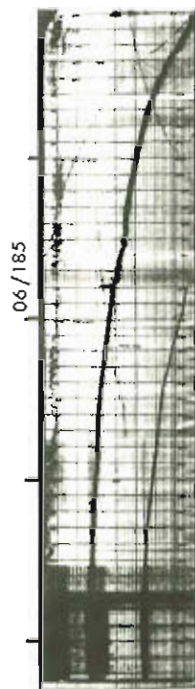
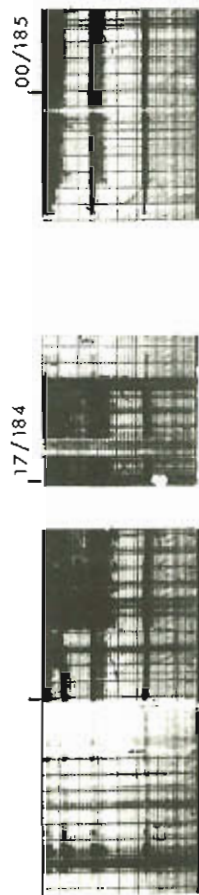
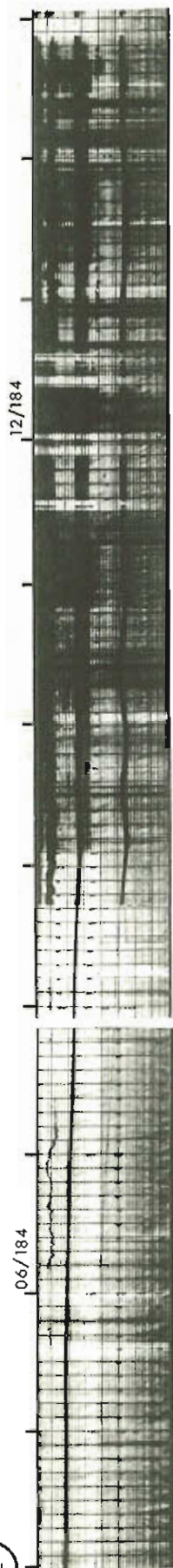
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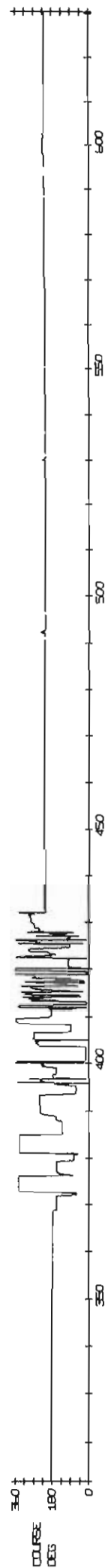
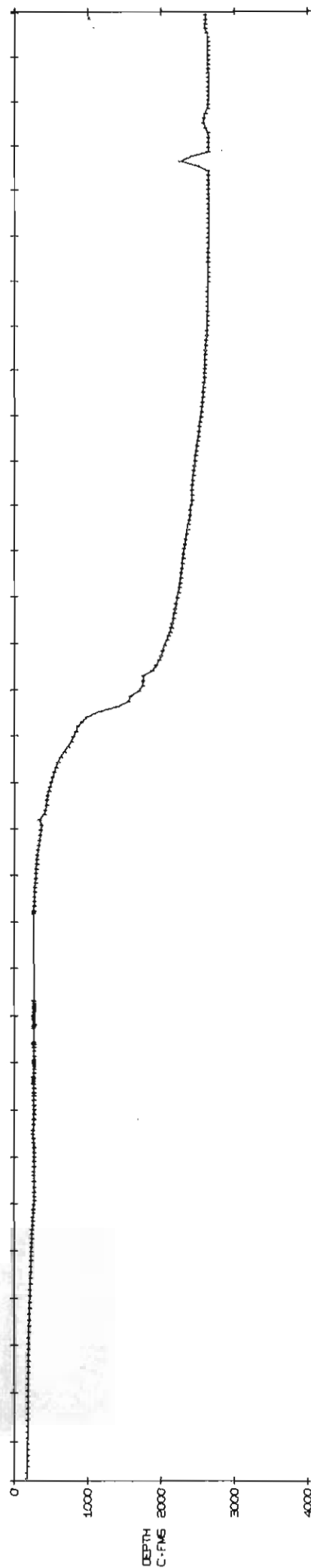
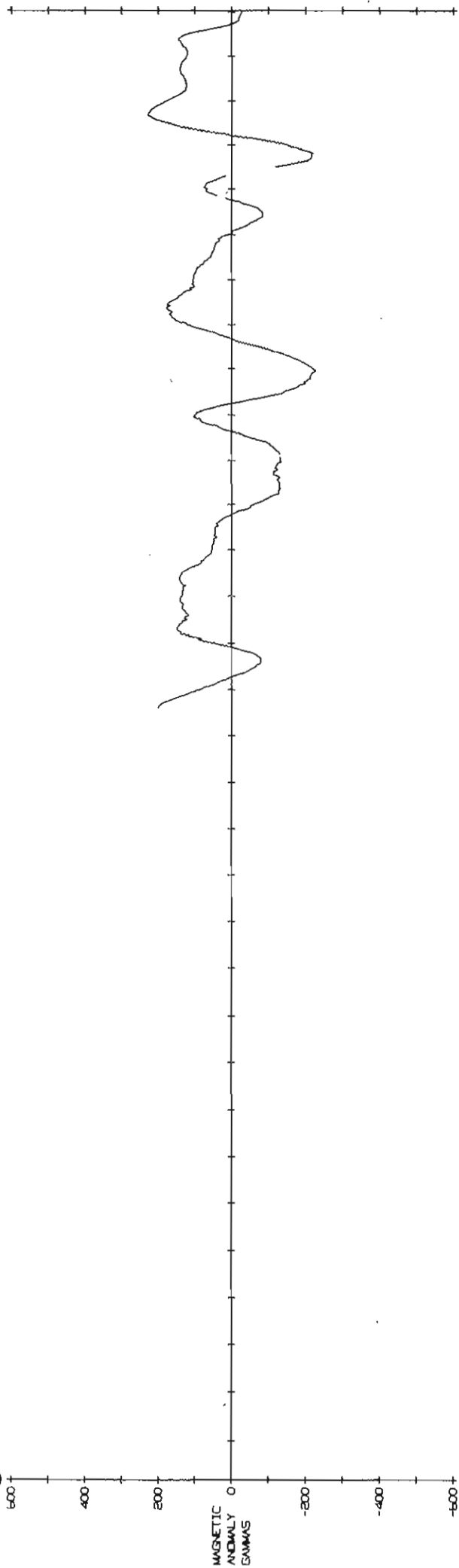
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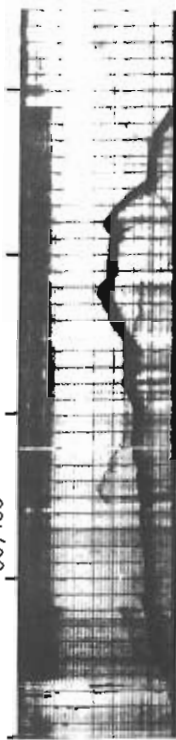


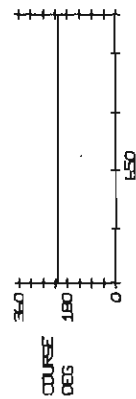
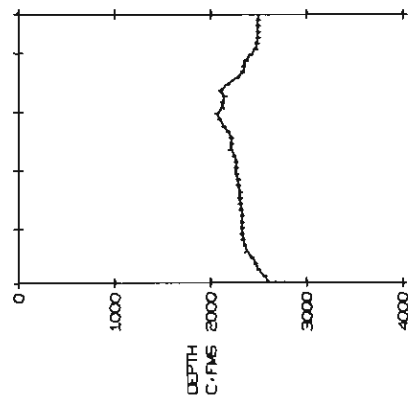
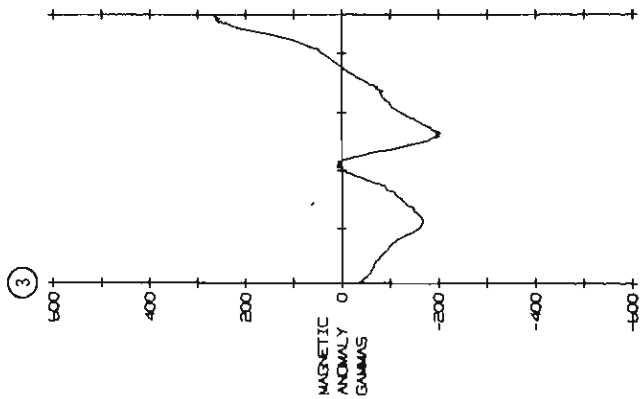
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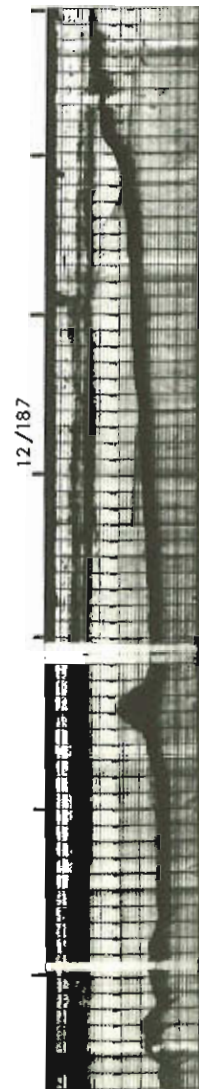
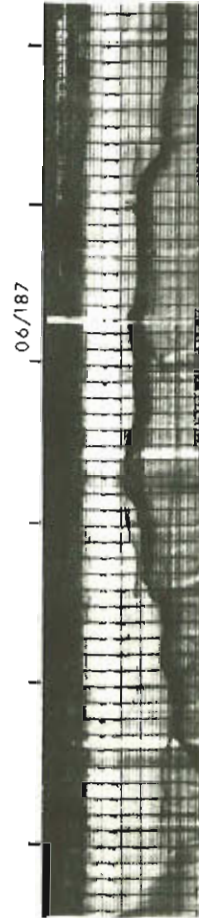
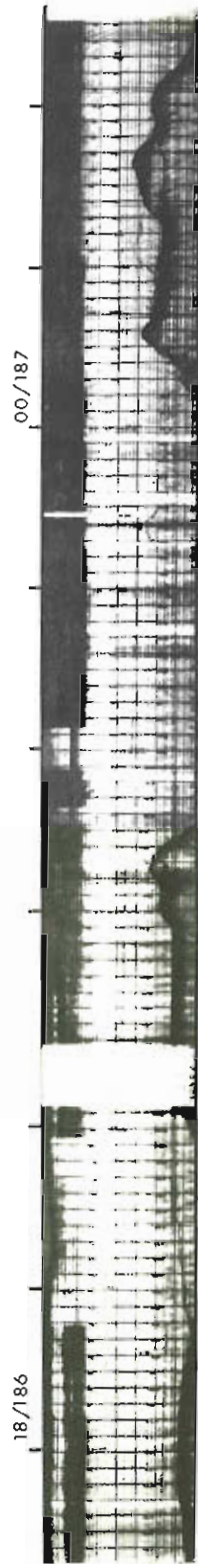
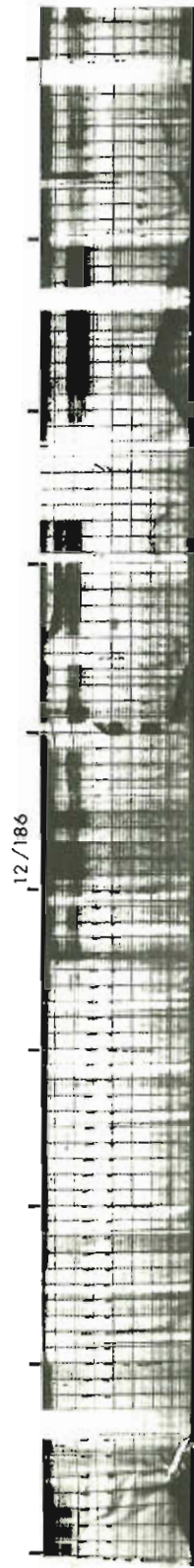
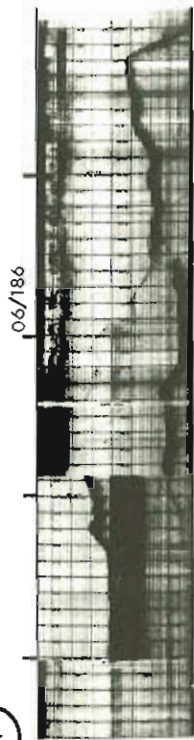
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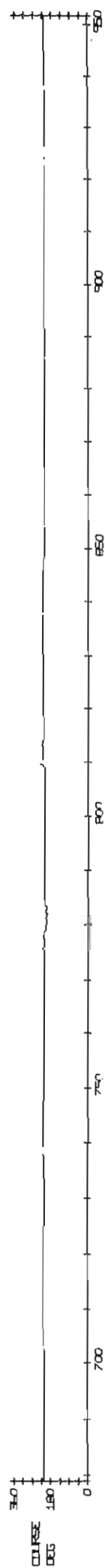
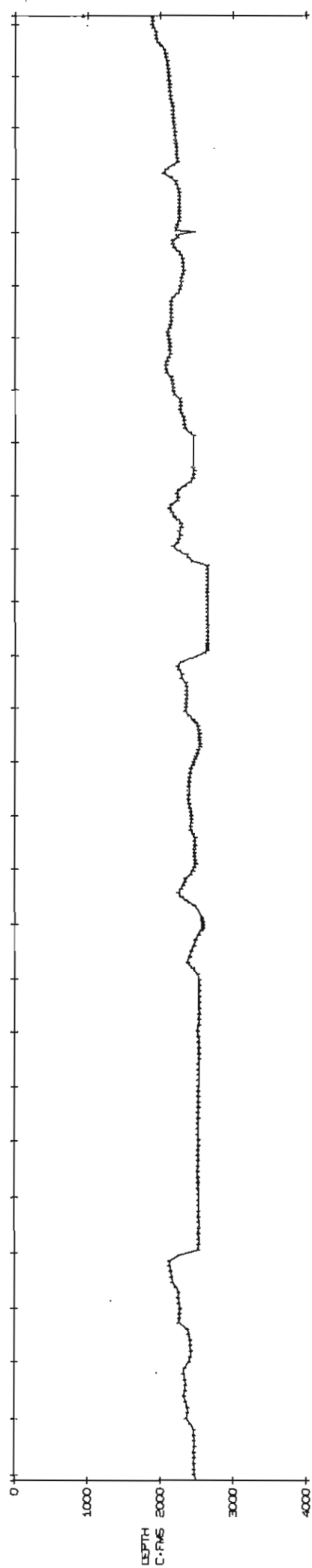
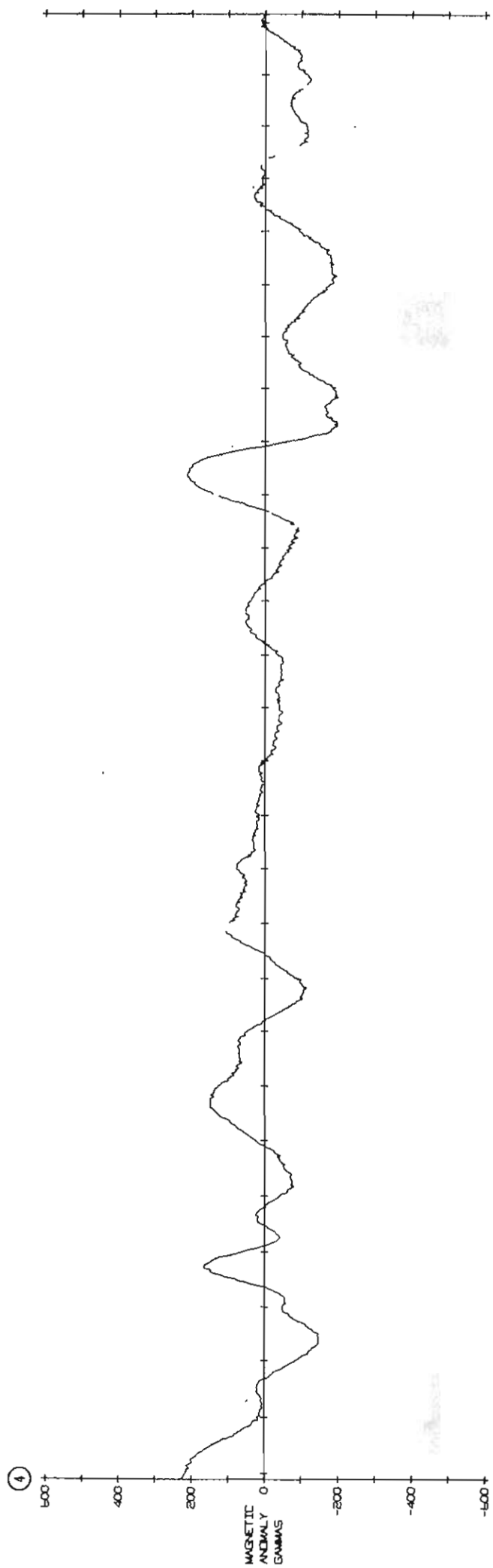
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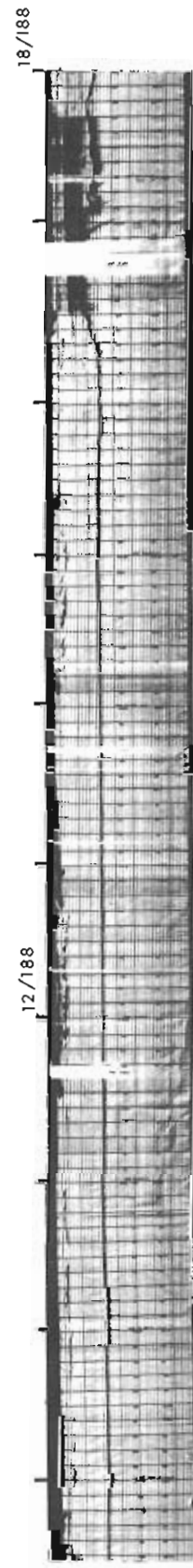
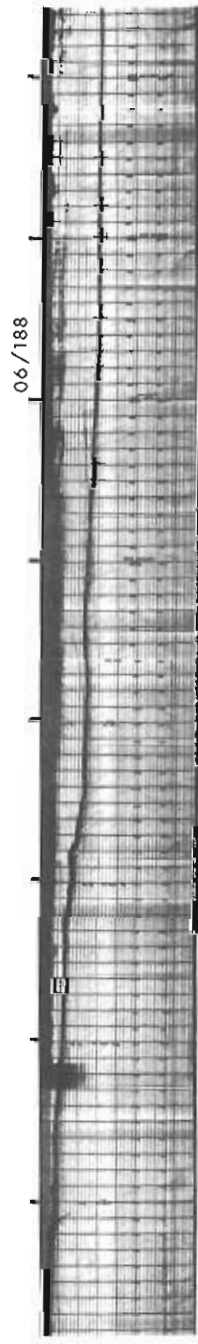
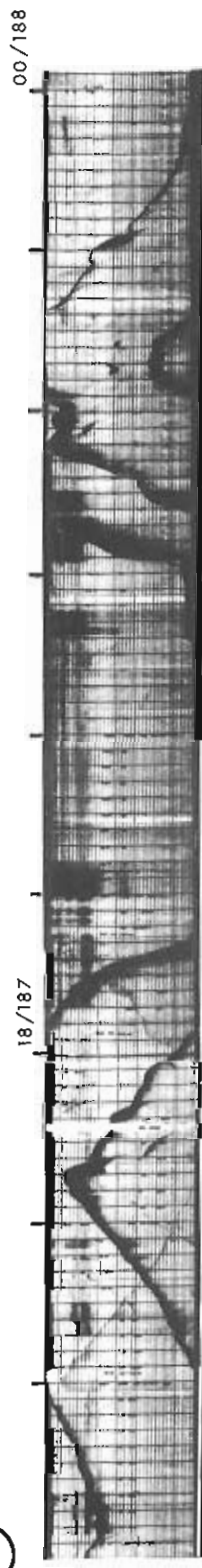


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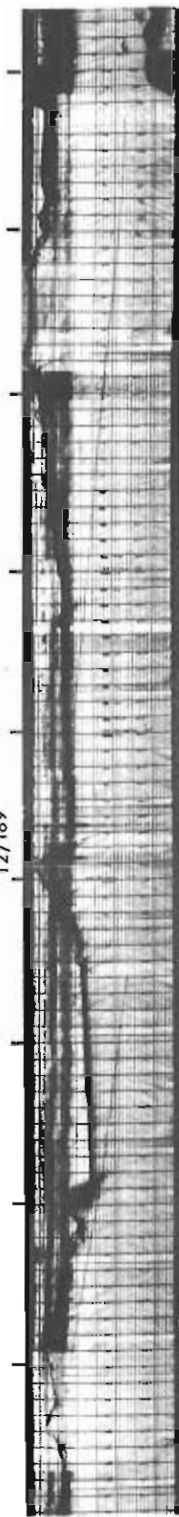


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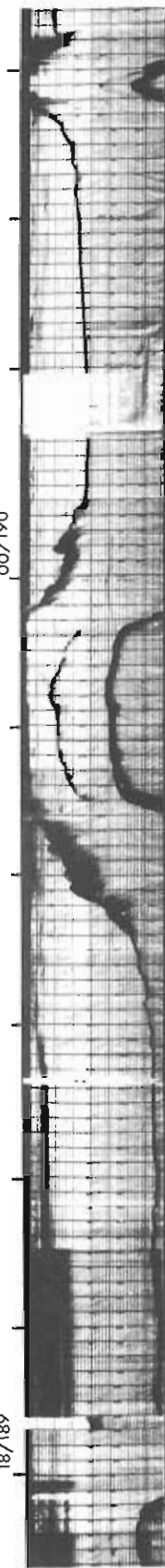


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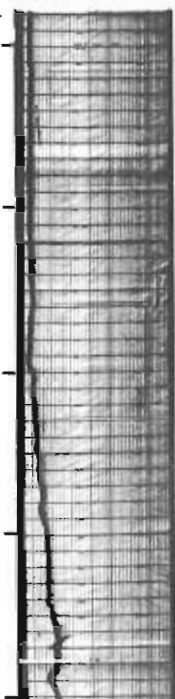
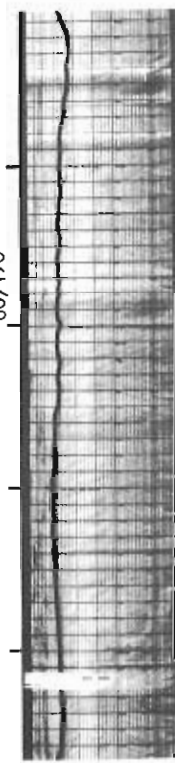
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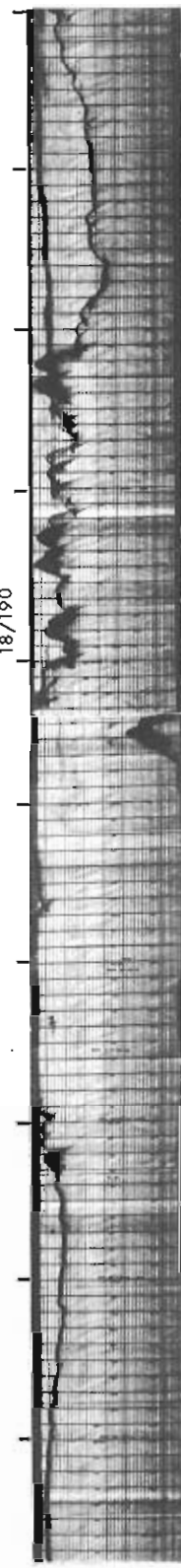


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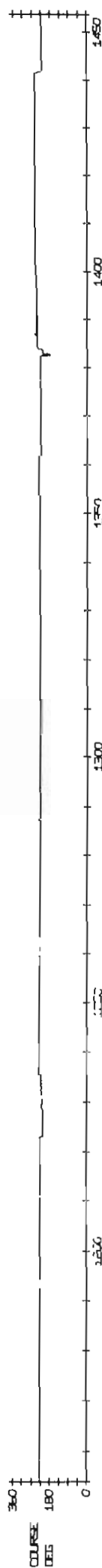
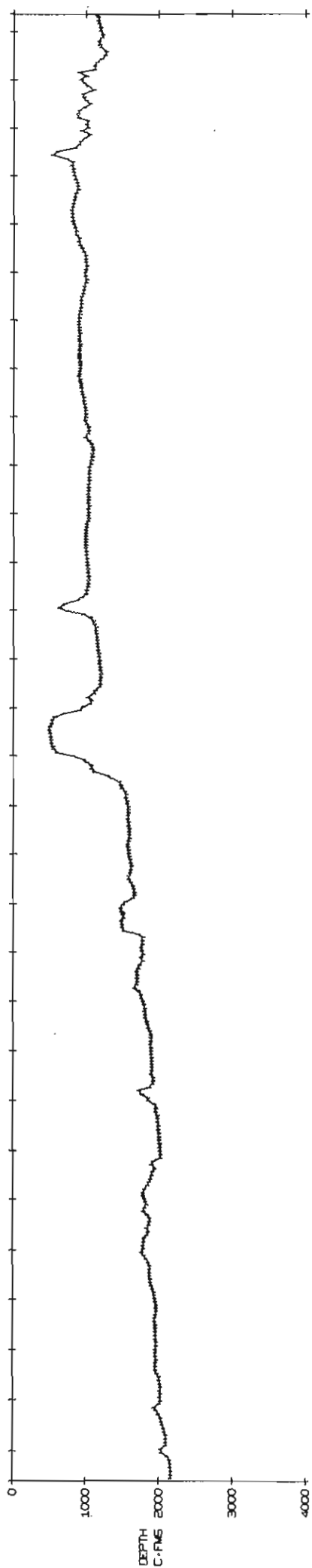
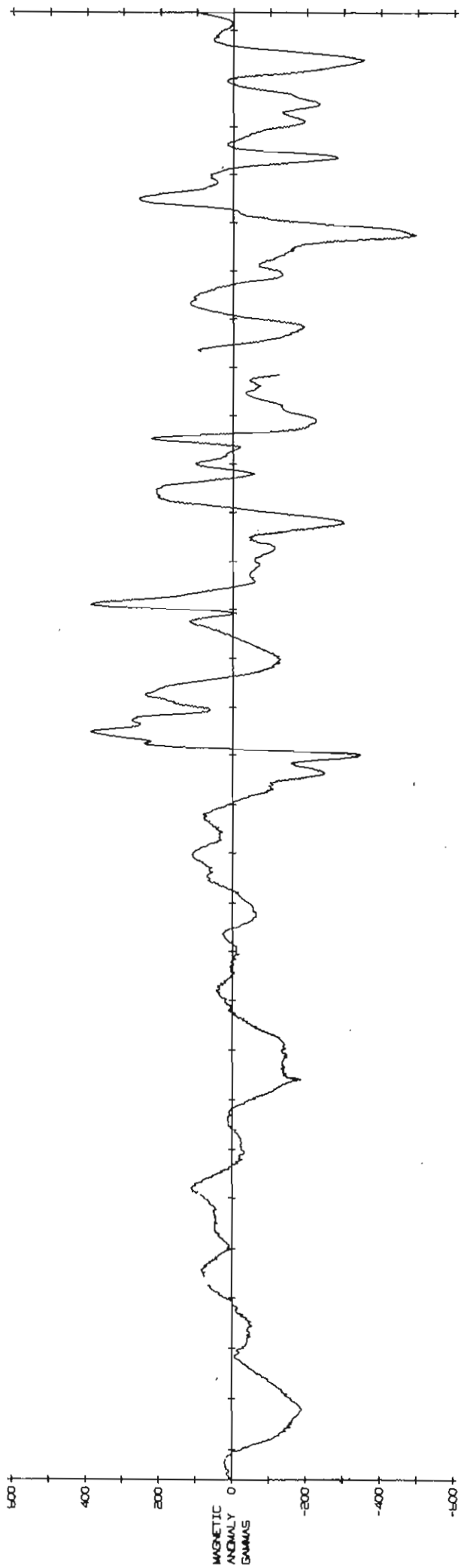
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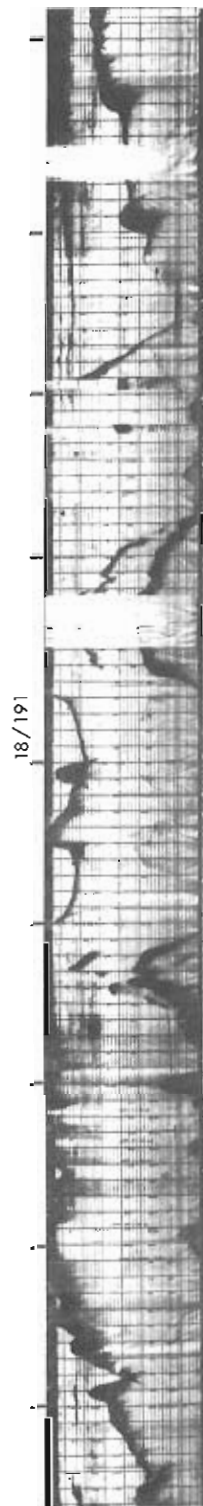
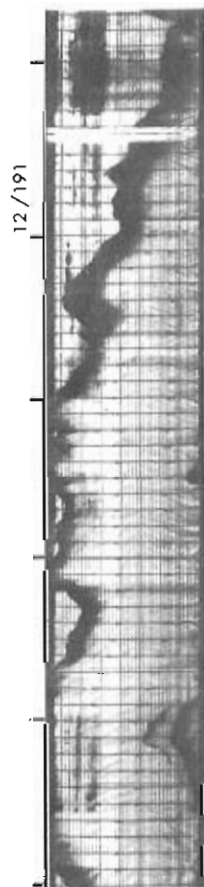
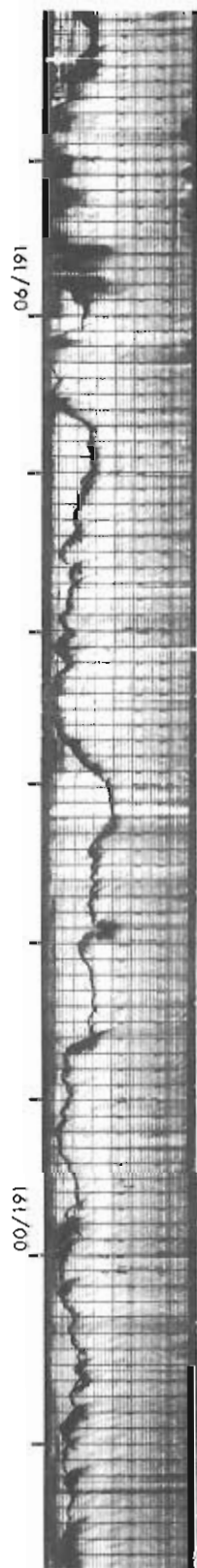
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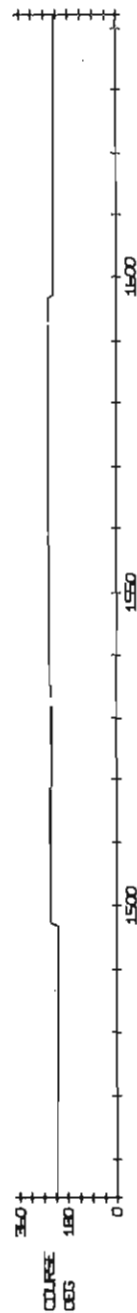
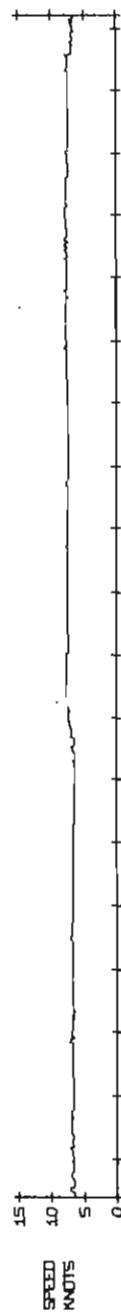
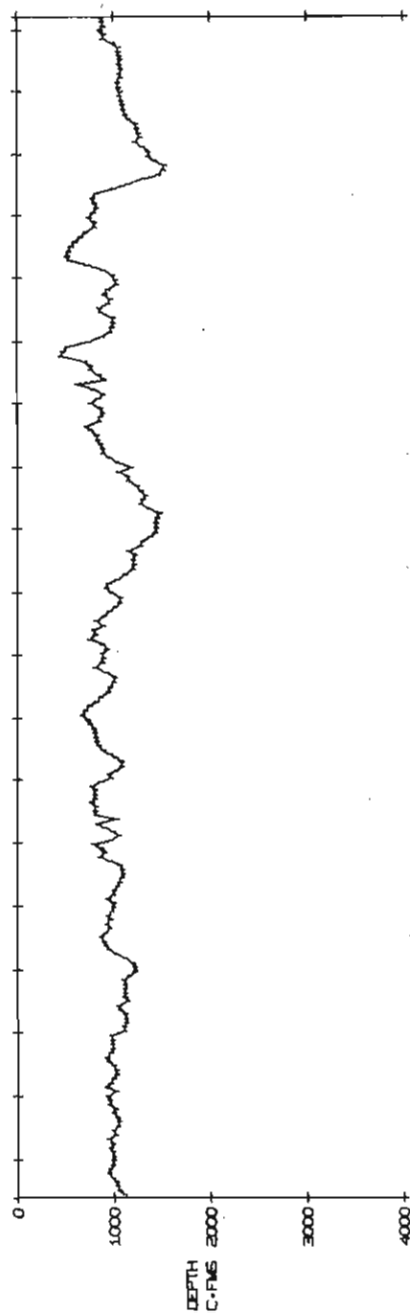
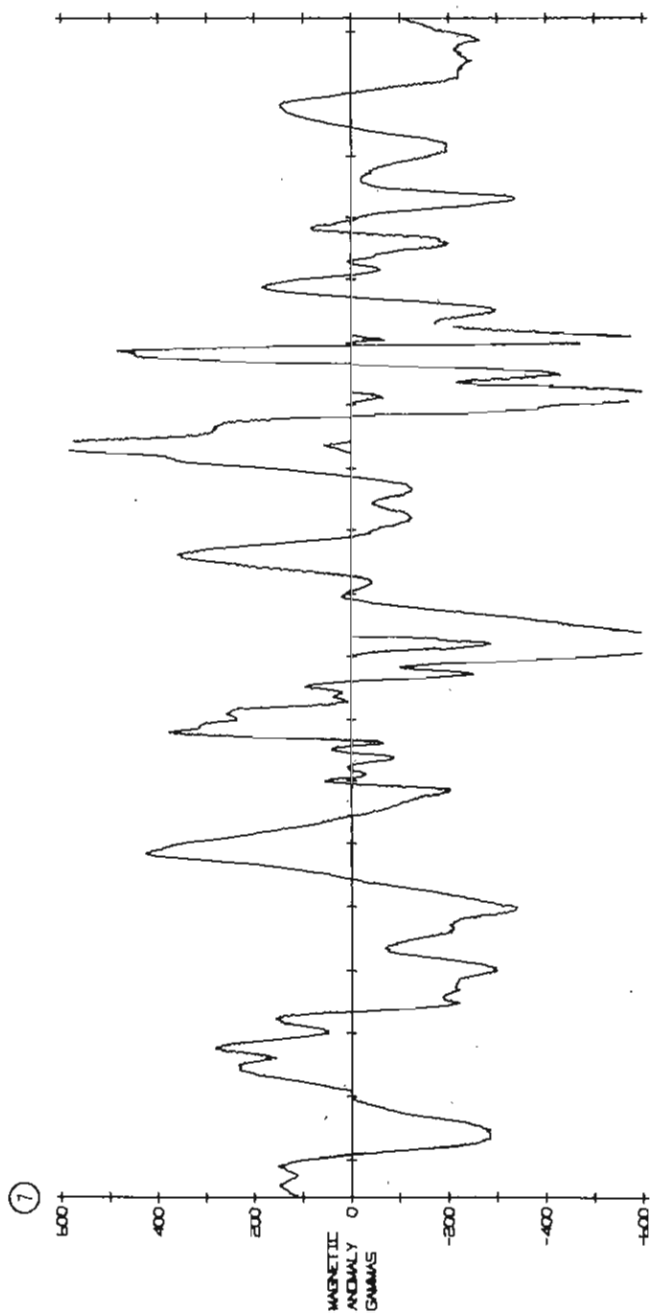


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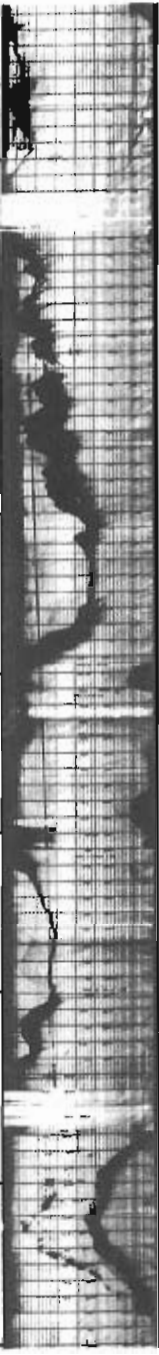




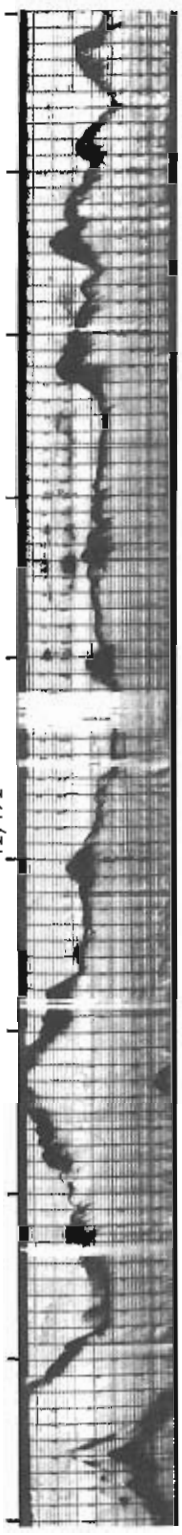
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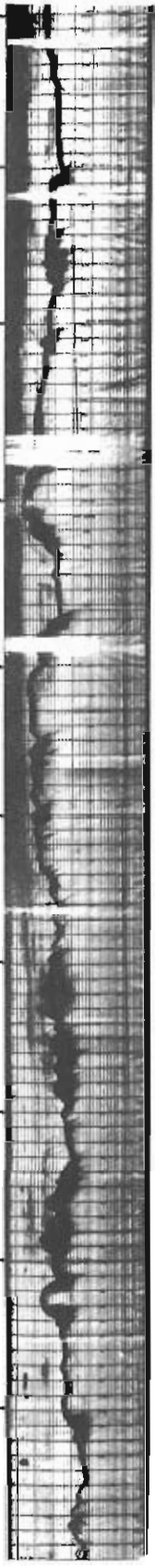


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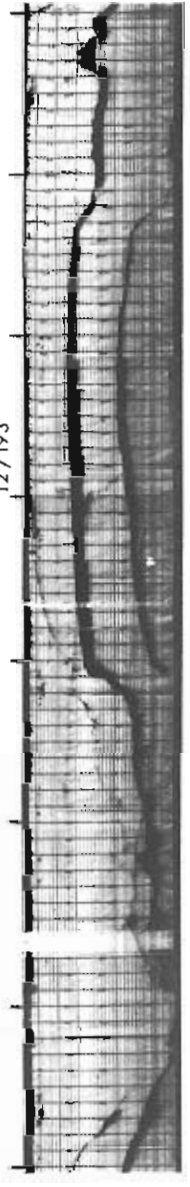
00 / 193



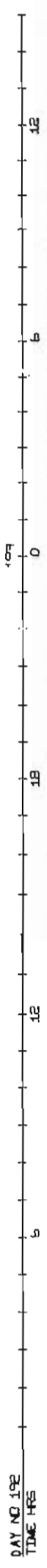
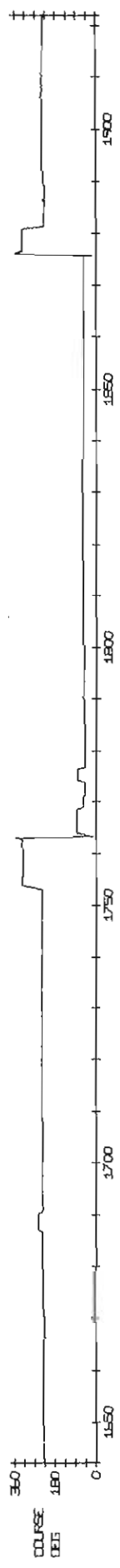
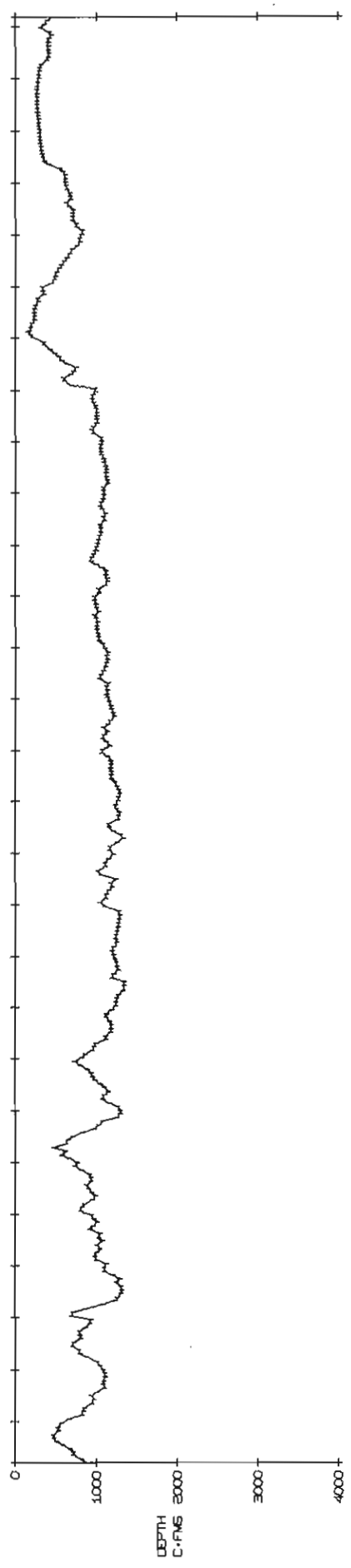
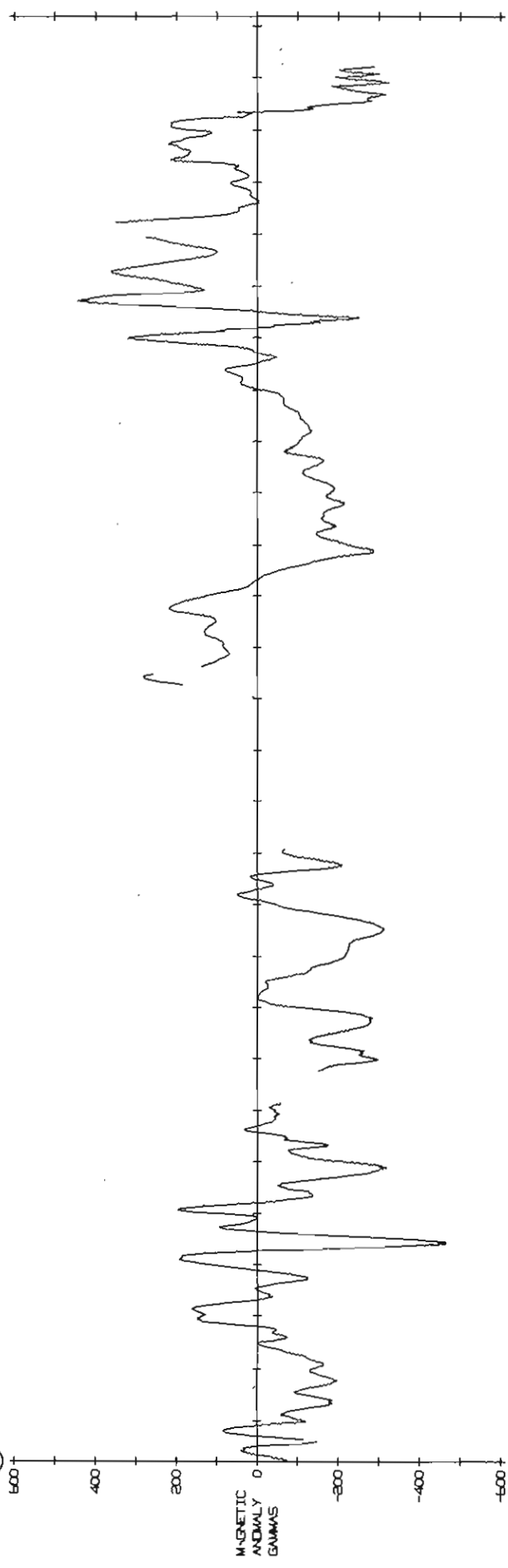
06 / 193



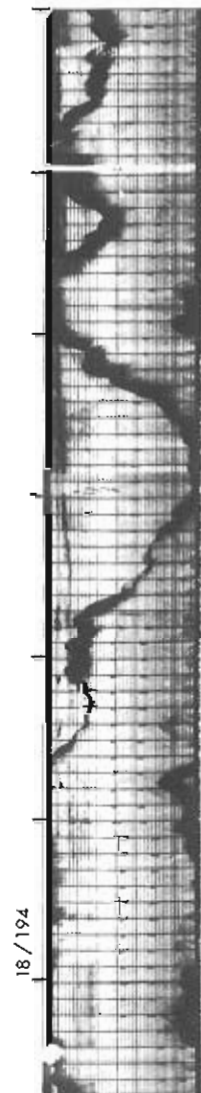
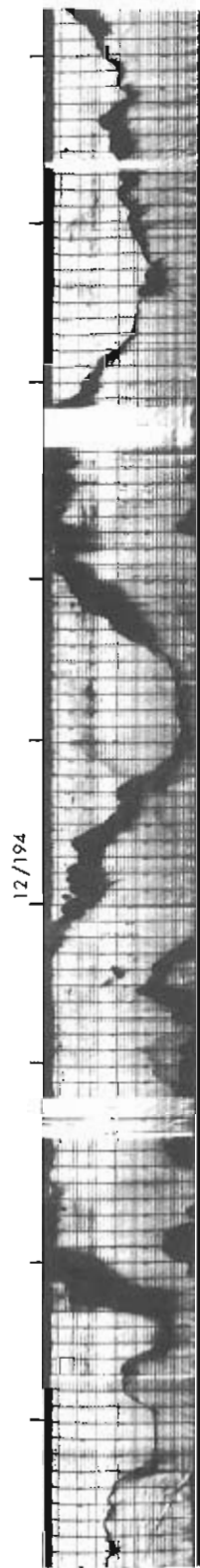
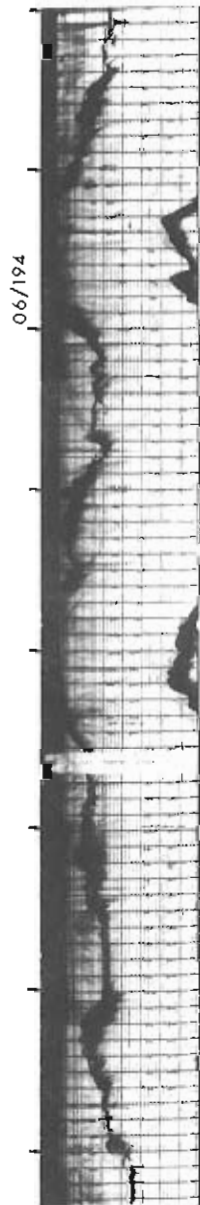
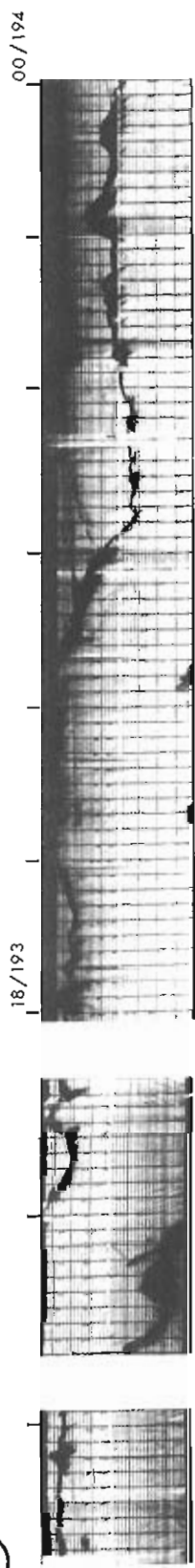
12 / 193

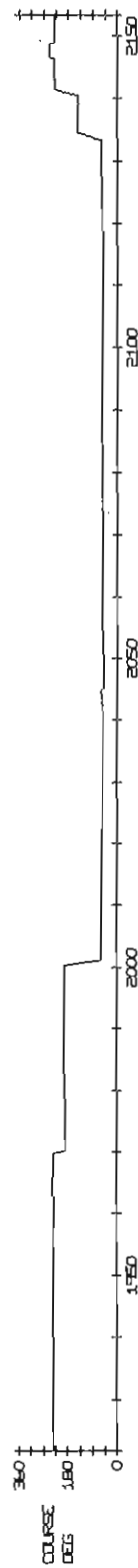
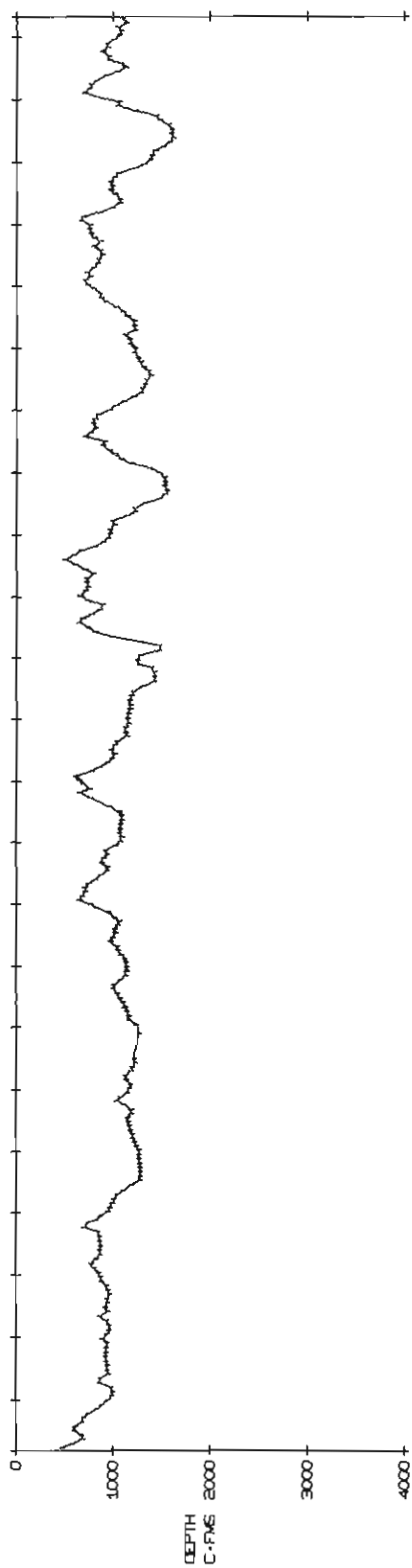
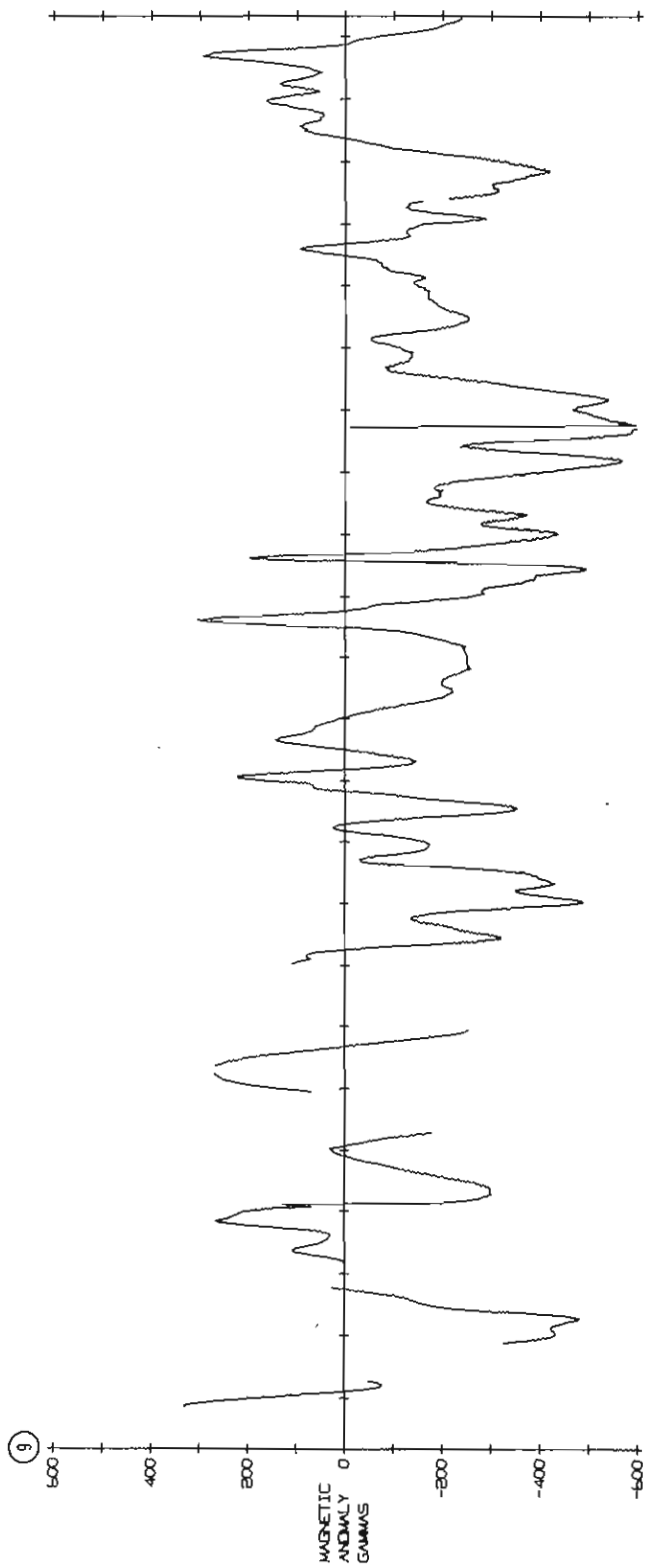


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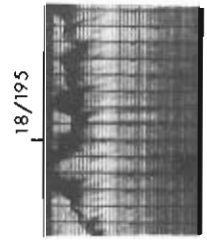
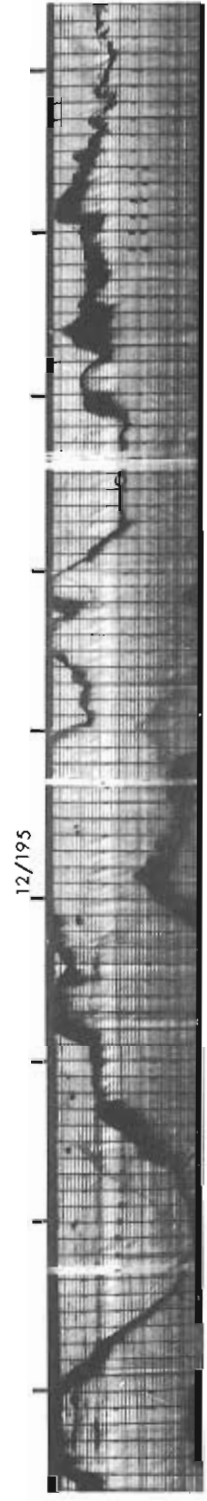
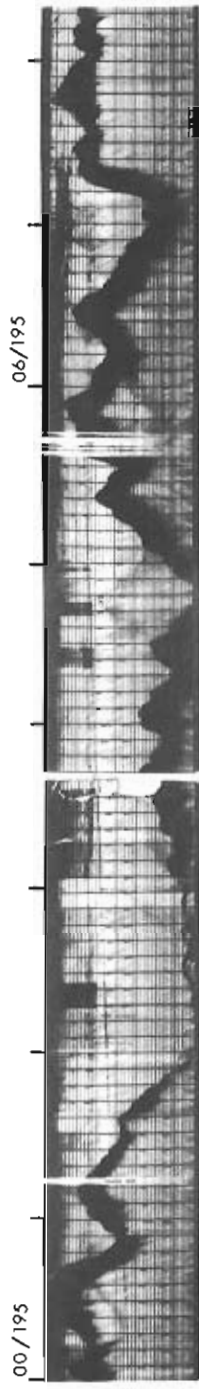


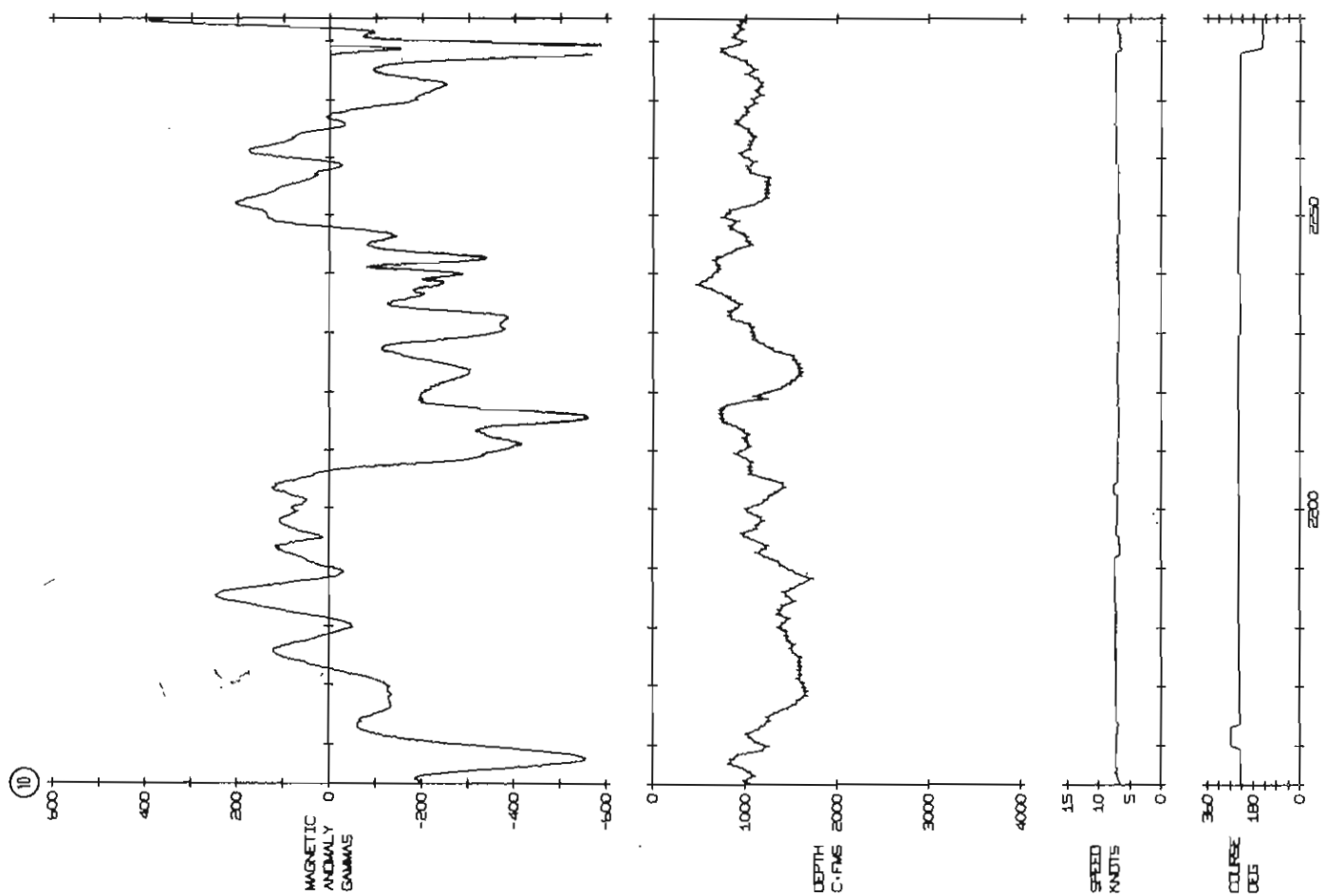
9



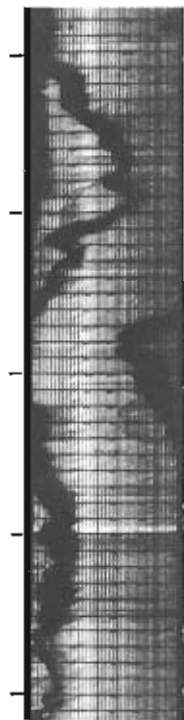


10



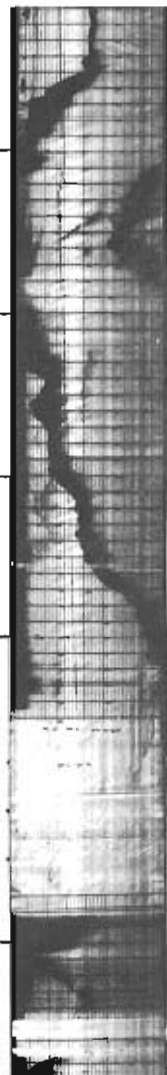


11

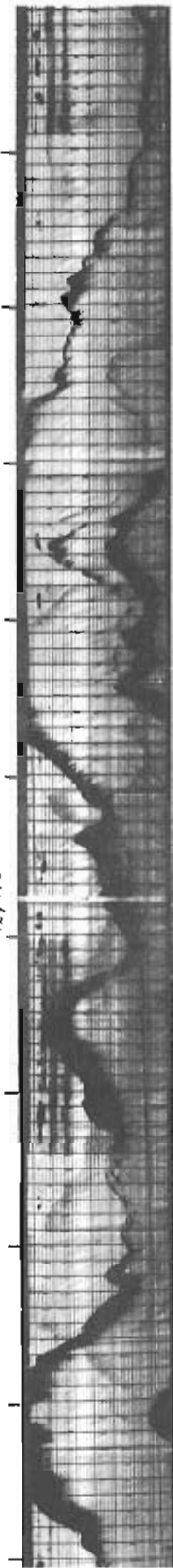


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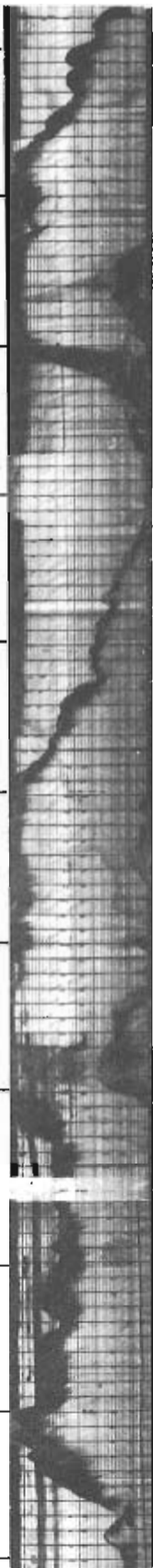


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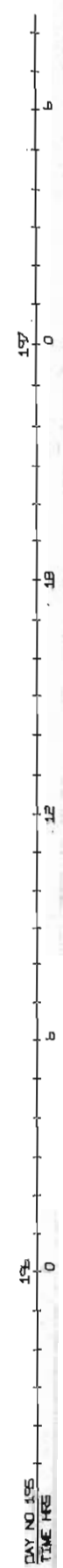
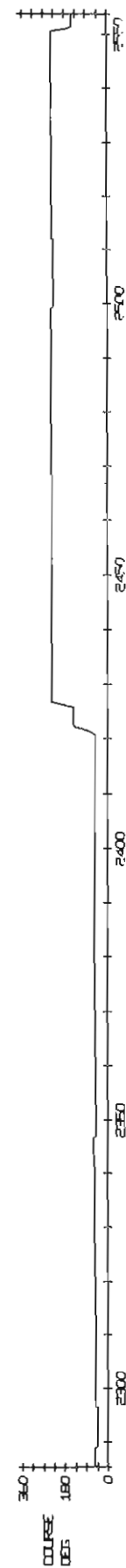
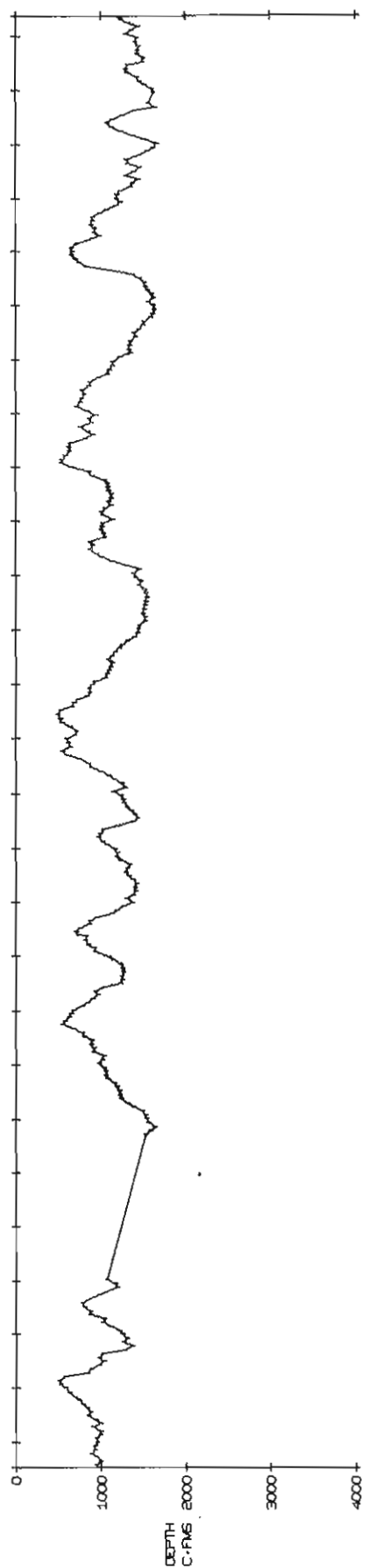
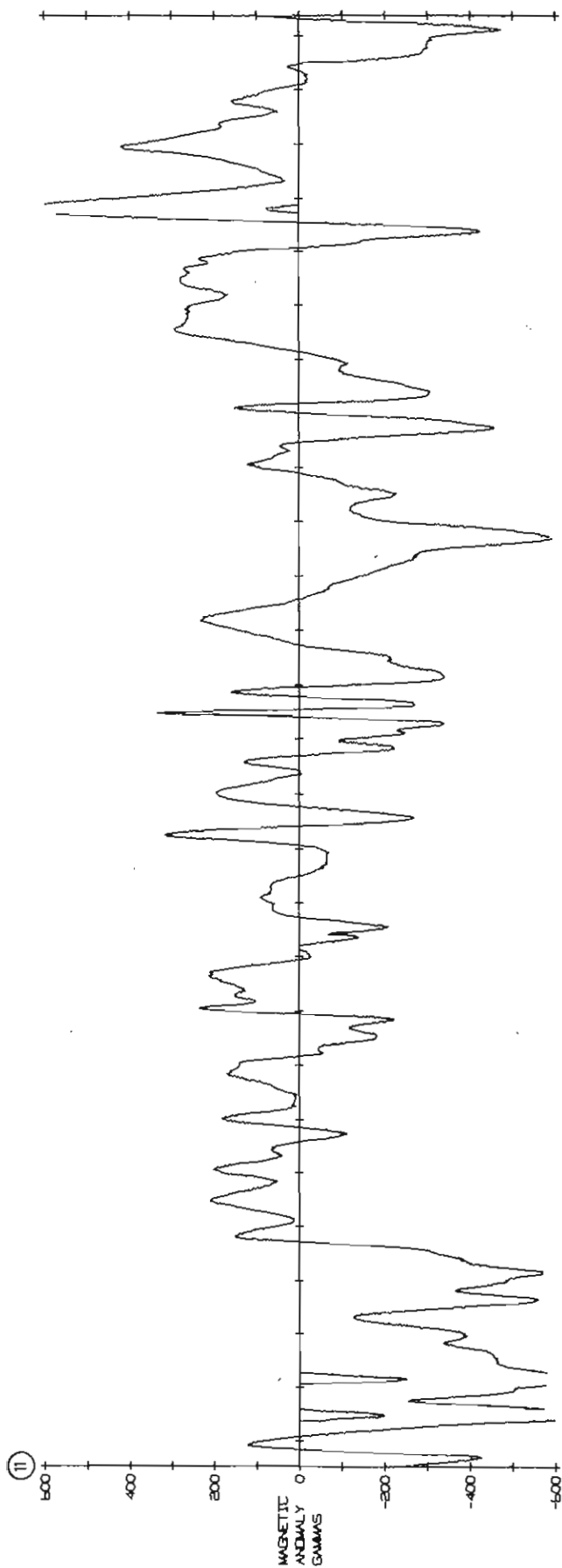
00/197



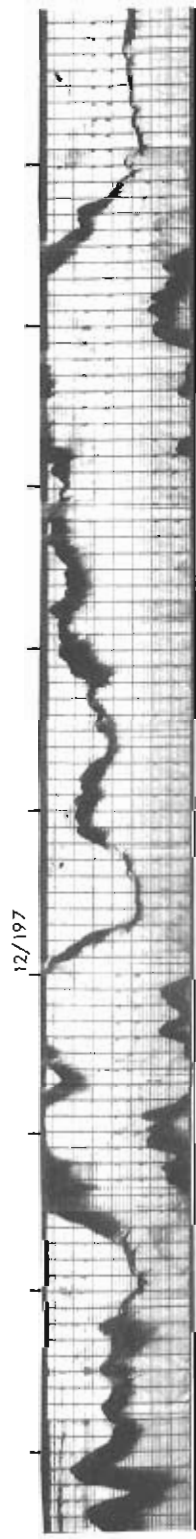
06/197

08

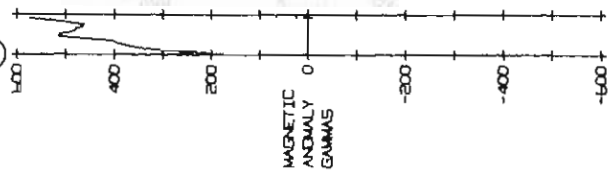




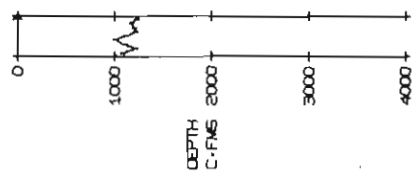
12



12



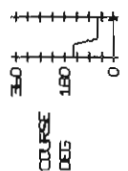
MAGNETIC
ANOMALY
GAMMAS



DEPTH
C-FMS

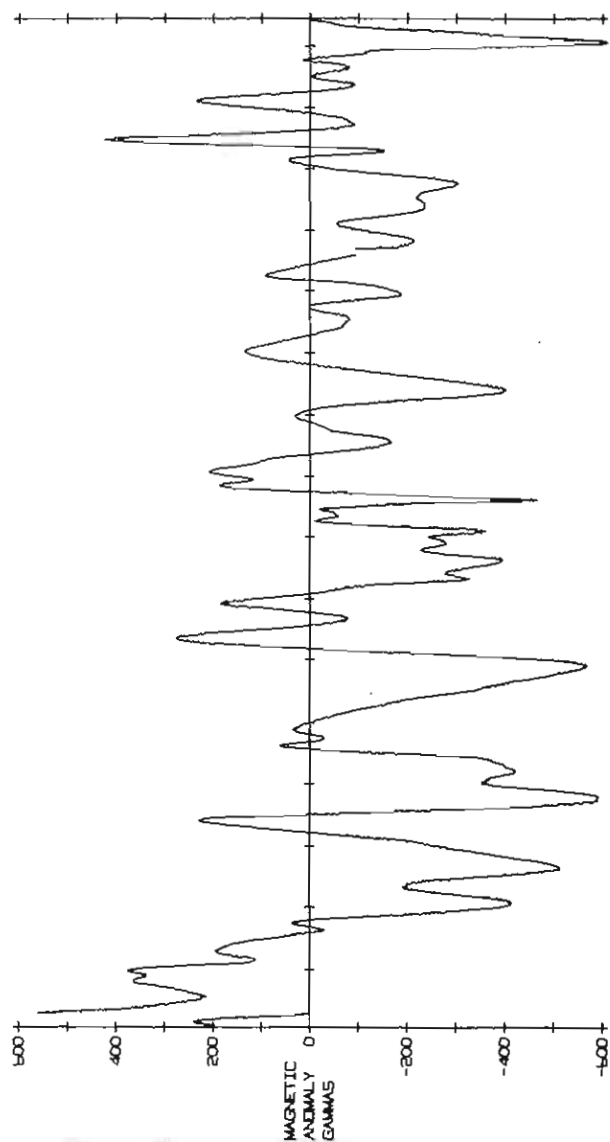


SPEED
KNOTS

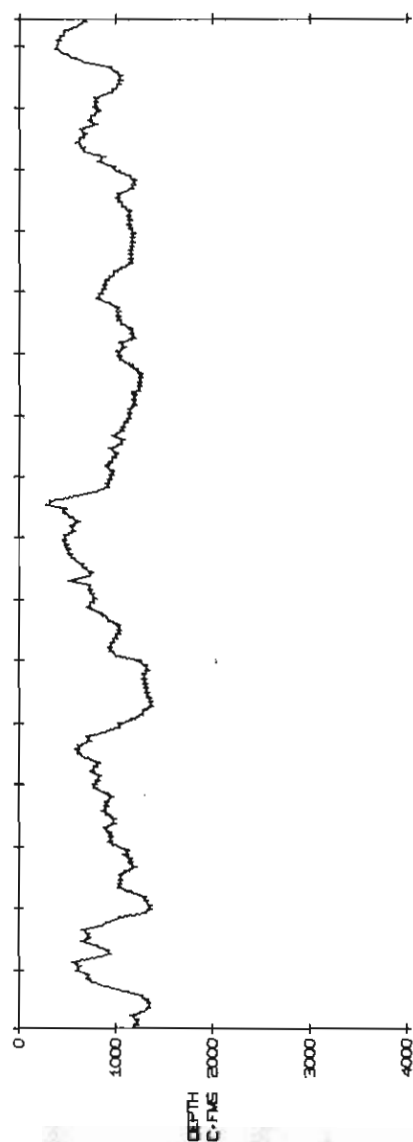


COURSE
DEG

DAY NO 197
TIME HRS 9



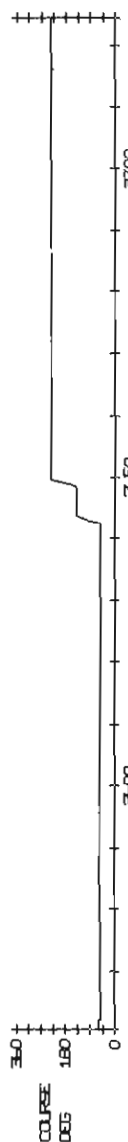
MAGNETIC
ANOMALY
GAMMAS



DEPTH
C-FMS

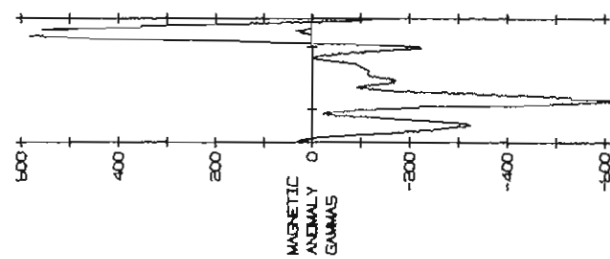


SPEED
KNOTS

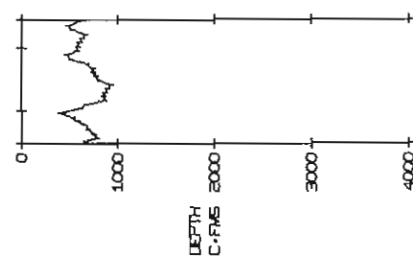


COURSE
DEG

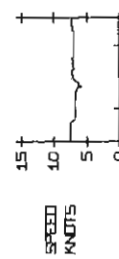
DAY NO 198
TIME HRS 0



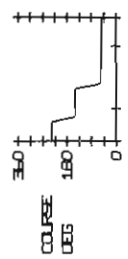
MAGNETIC
ANOMALY
GAMMAS



DEPTH
C-FMS



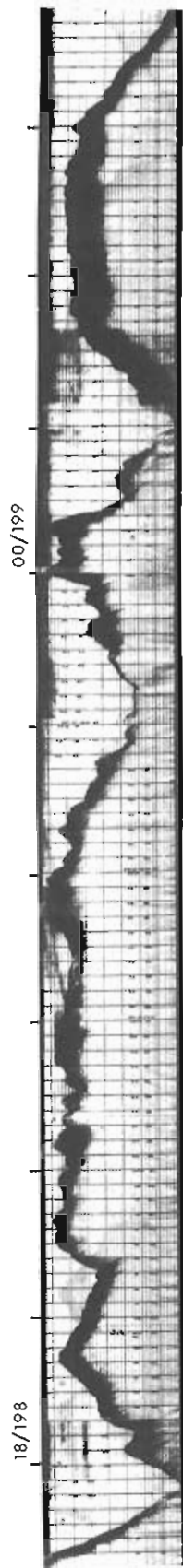
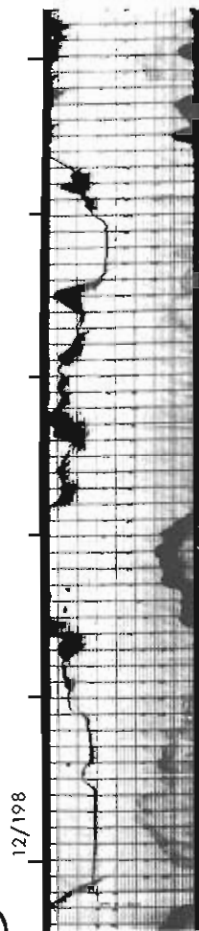
SPEED
KNOTS



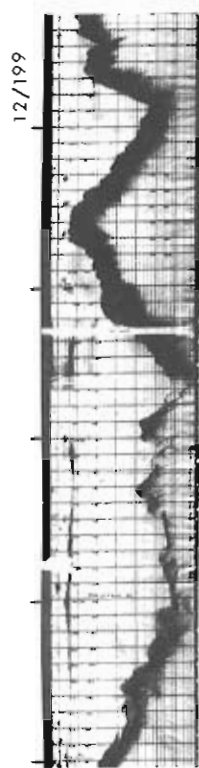
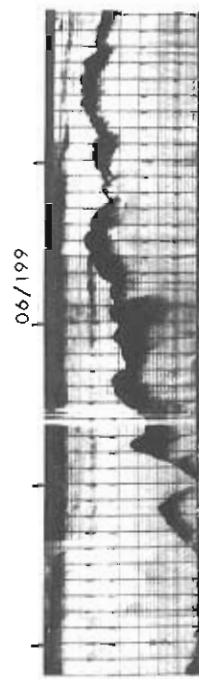
COURSE
DEG

DAY NO 199
TIME HRS 9

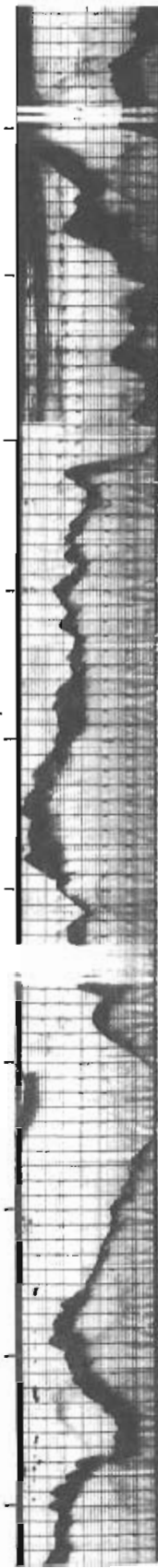
13



00/199

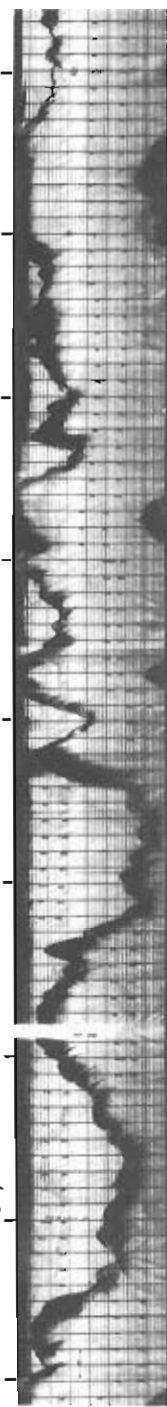


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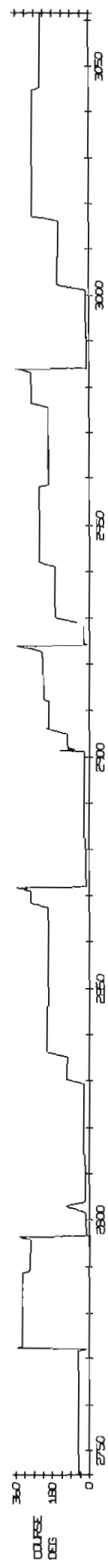
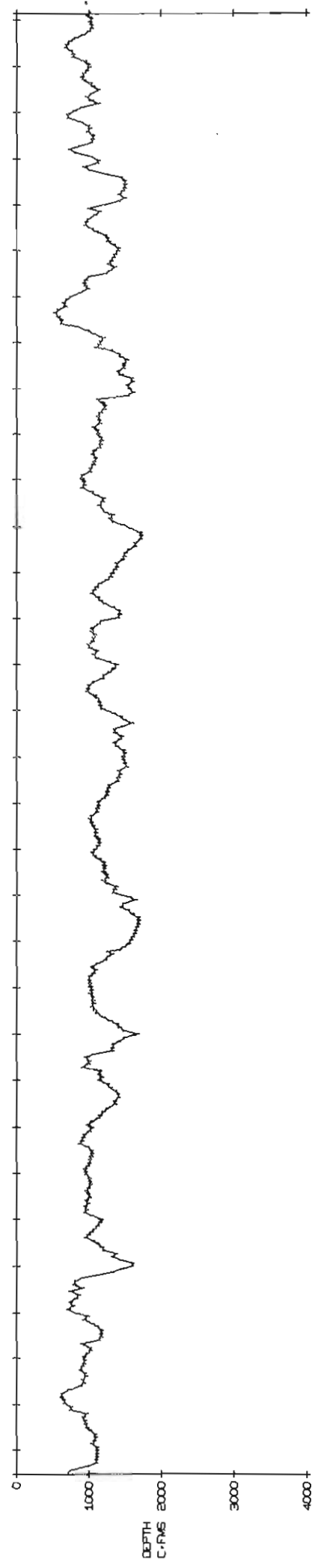
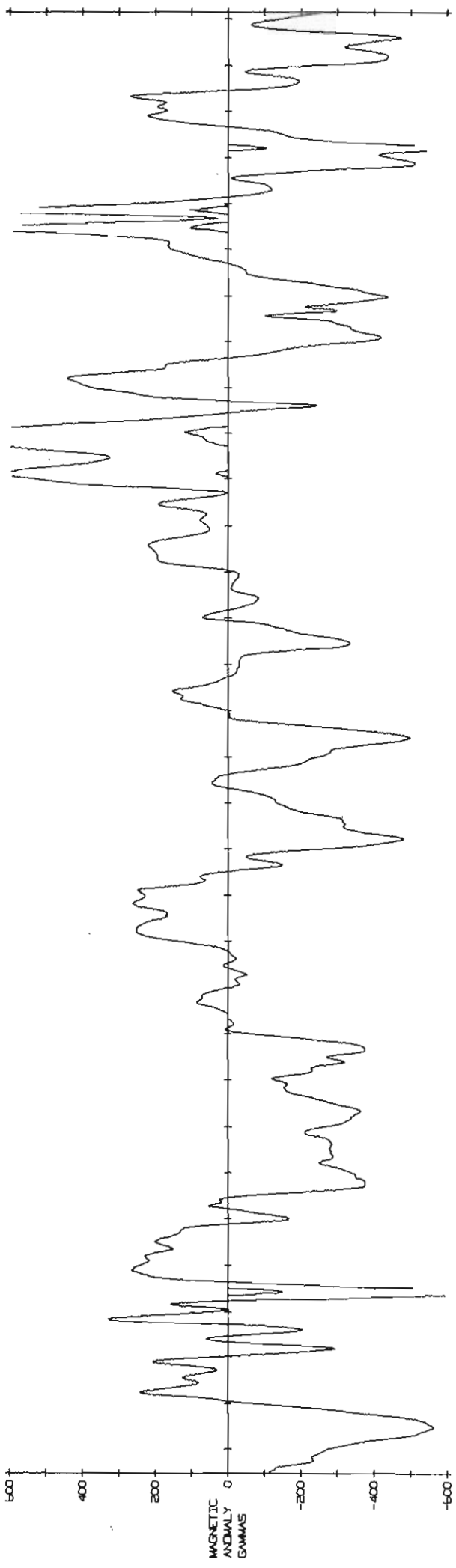


00/200

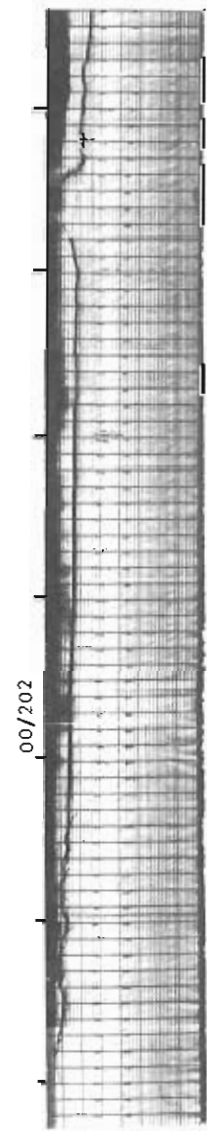
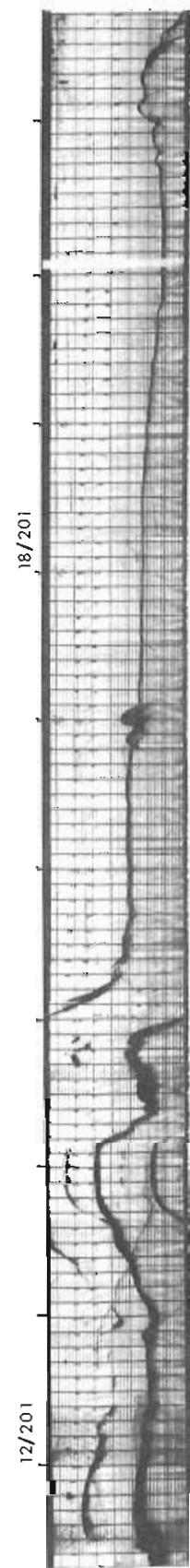
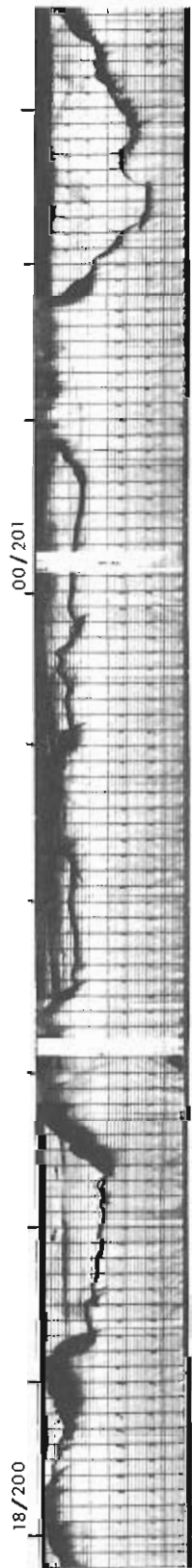
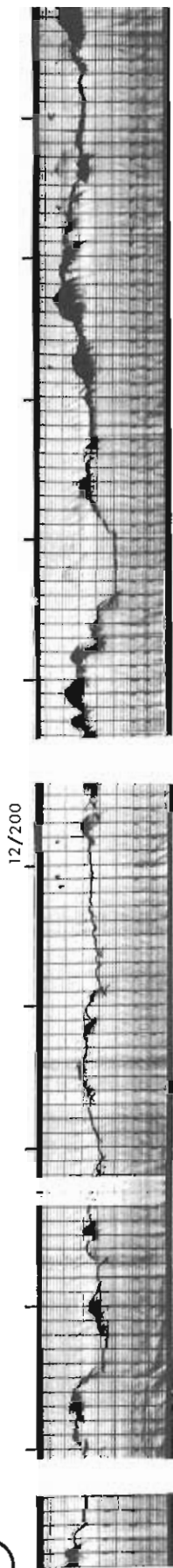
06/200

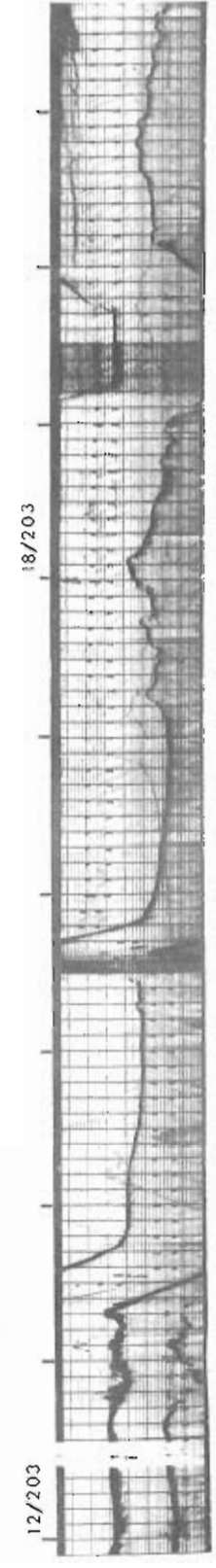
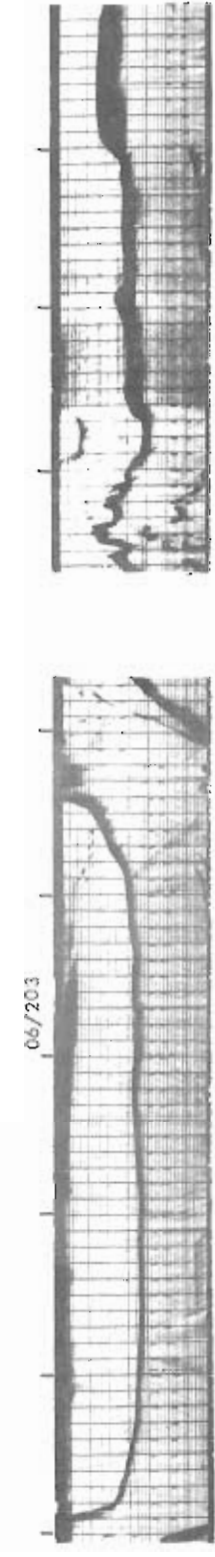
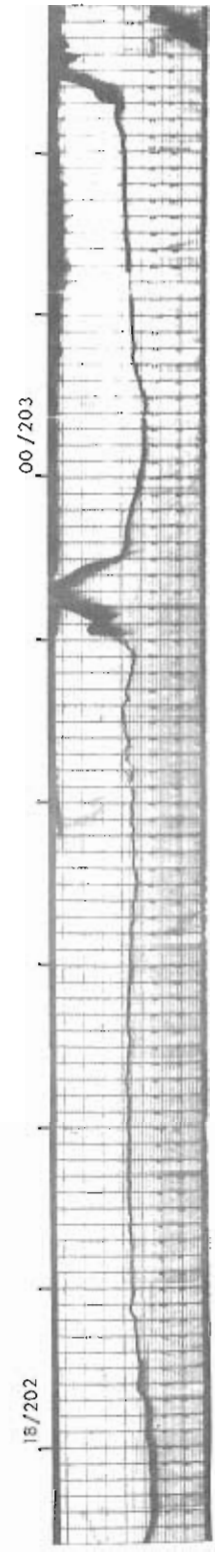
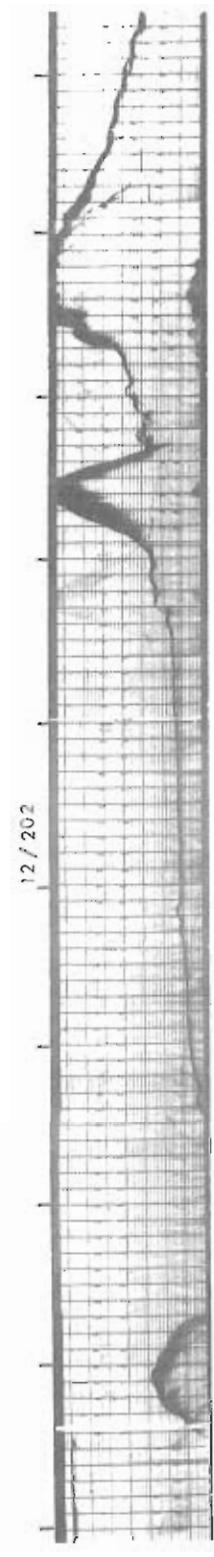
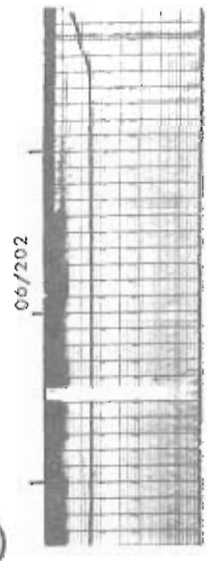


13

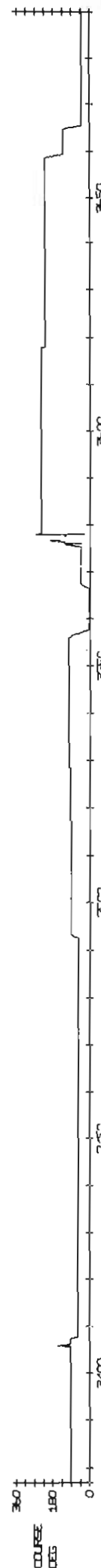
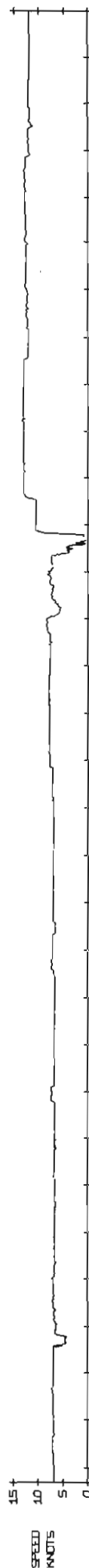
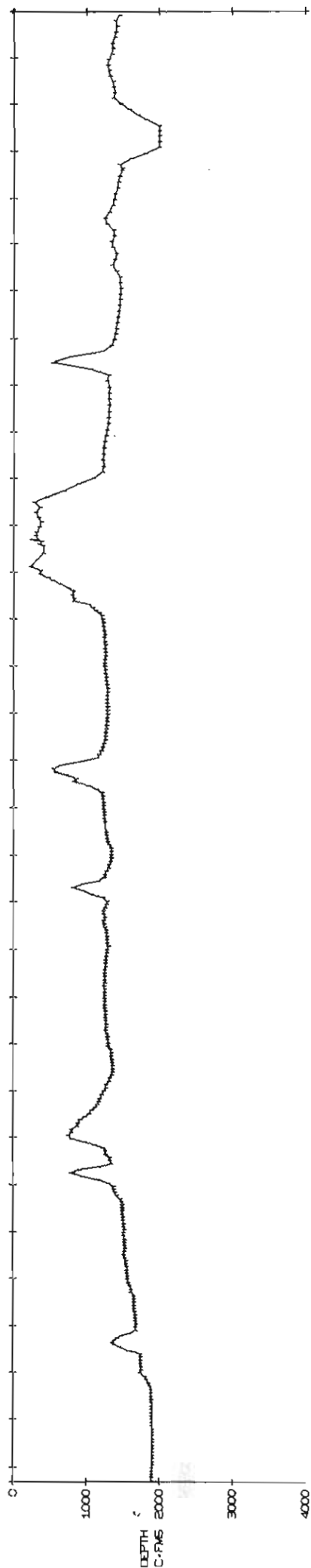
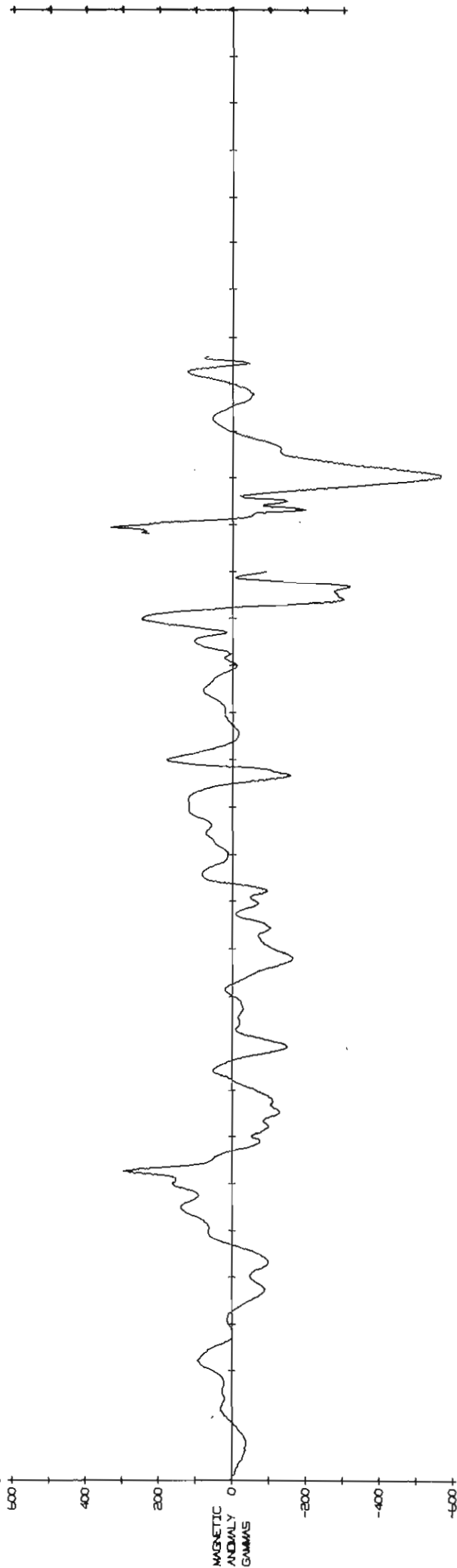


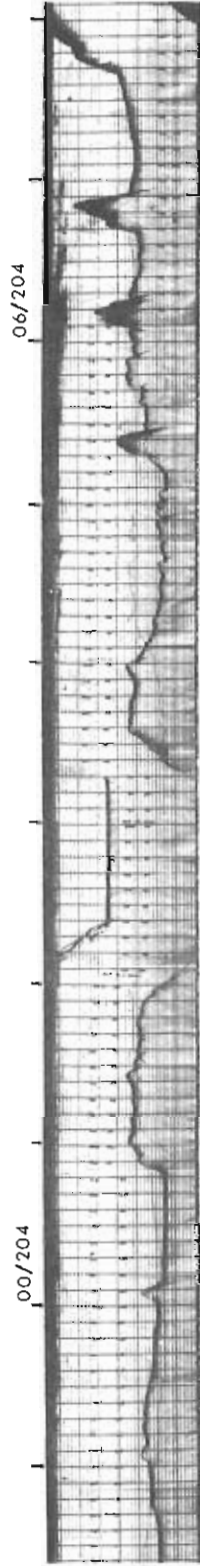
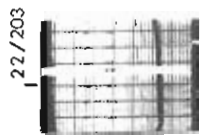
14



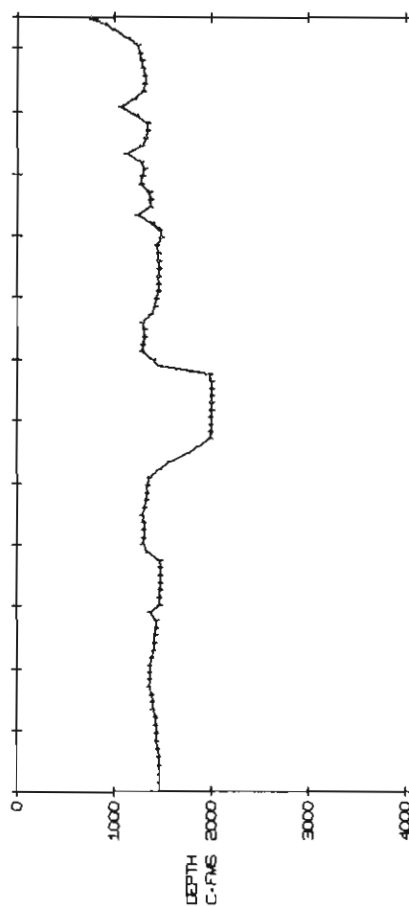
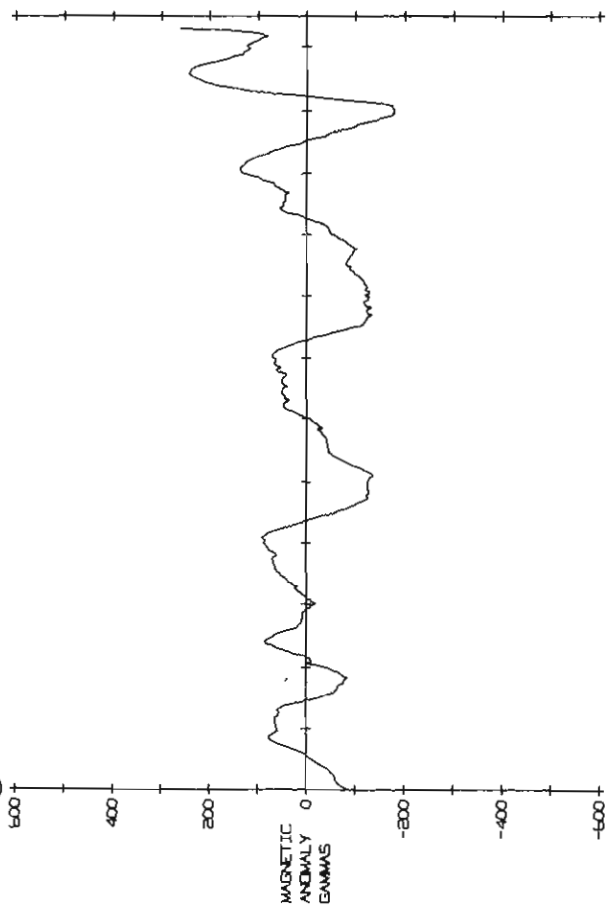


15

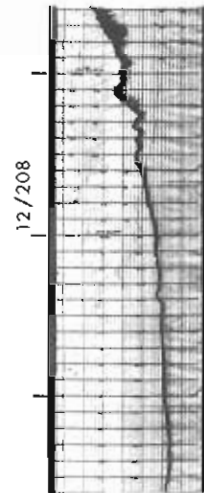
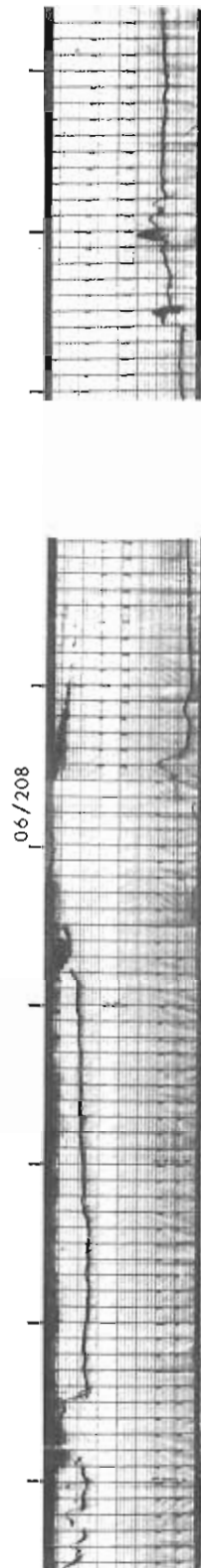
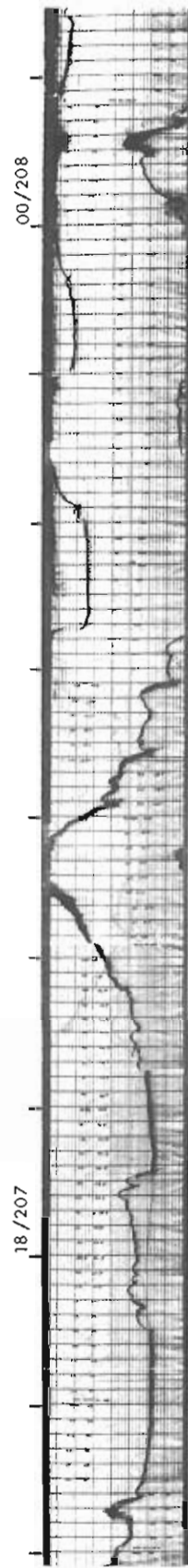
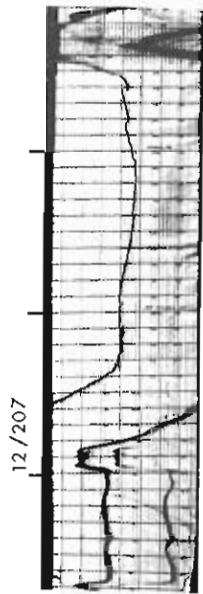


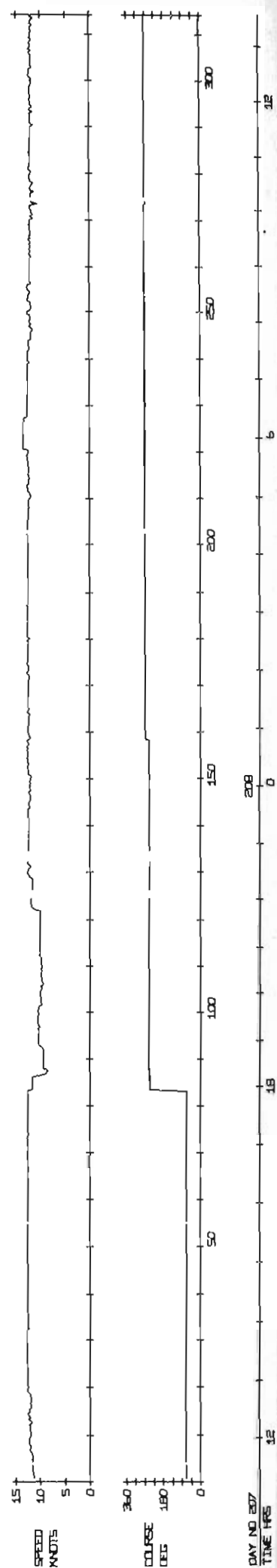
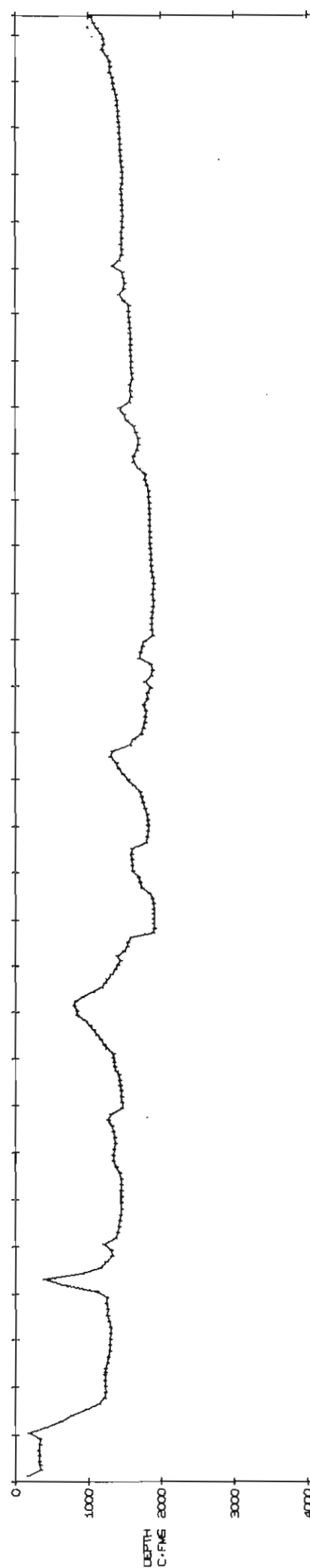
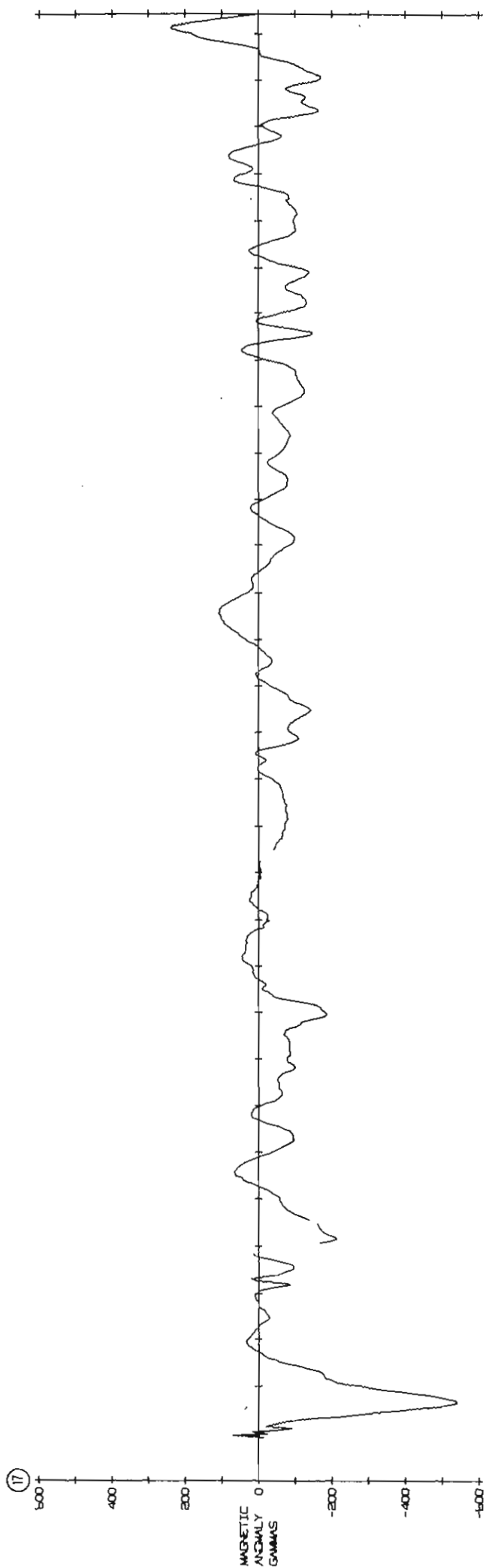


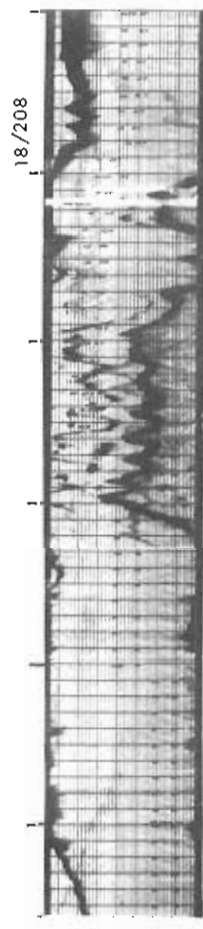
16



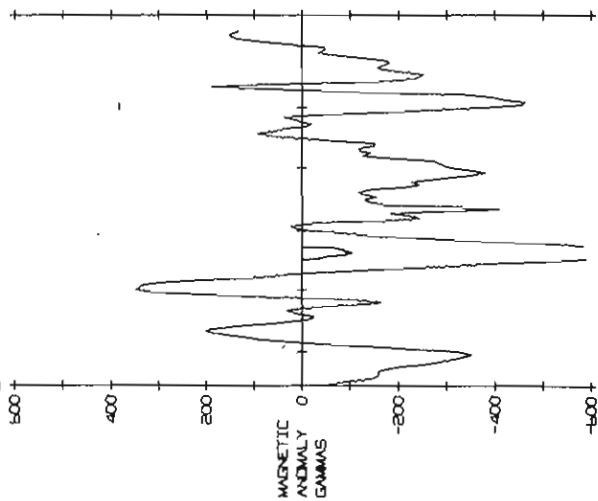
17





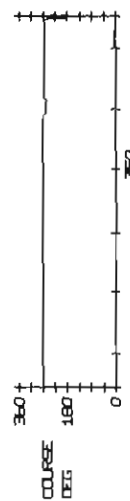
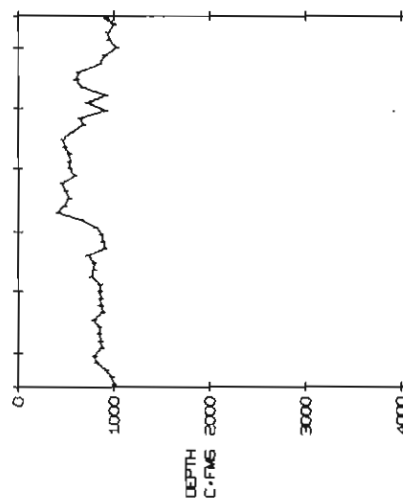


18



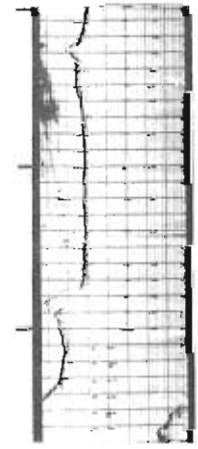
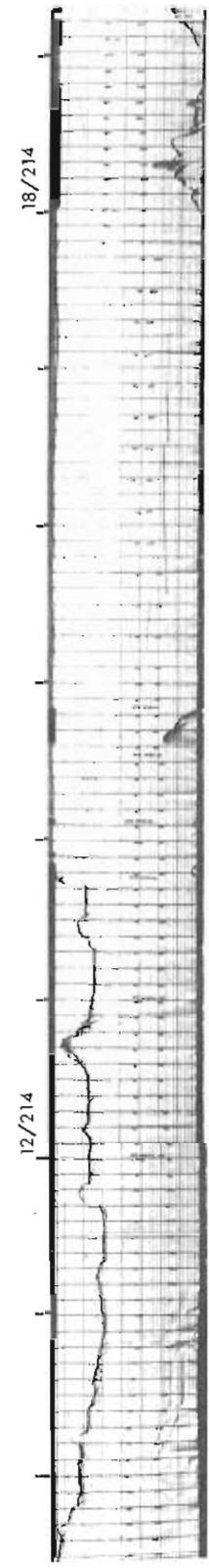
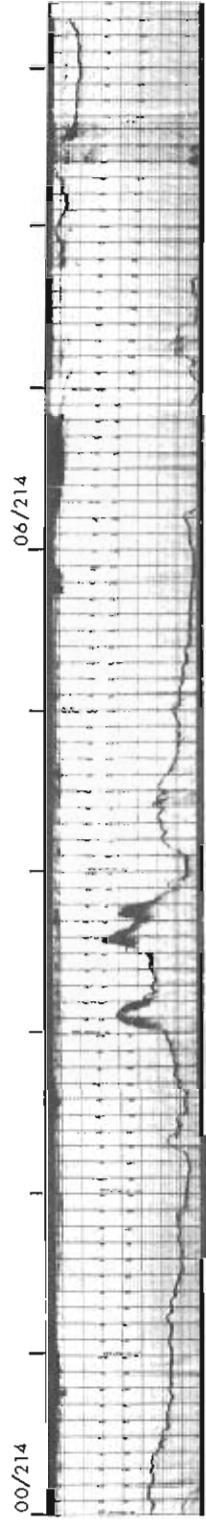
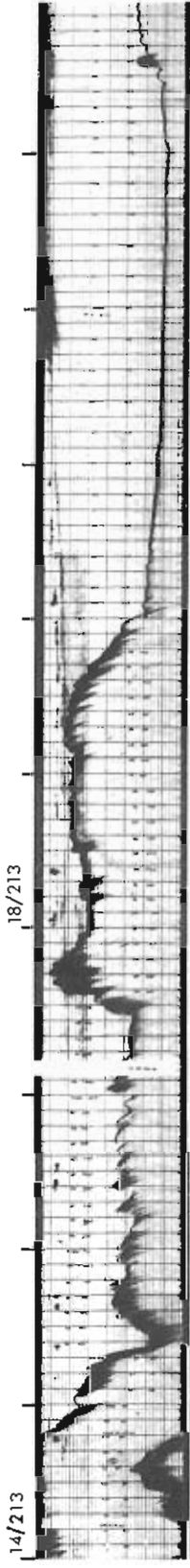
PROFILES CONTINUE

FROM 1400 DAY 213

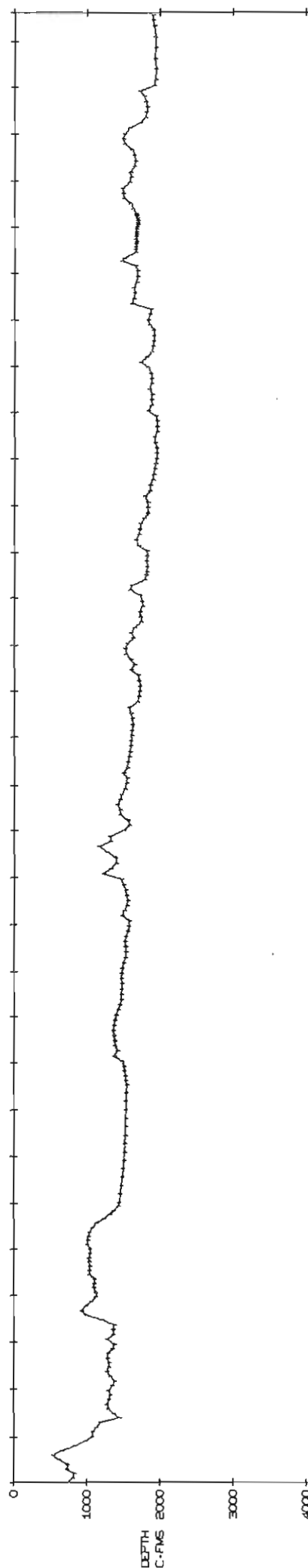
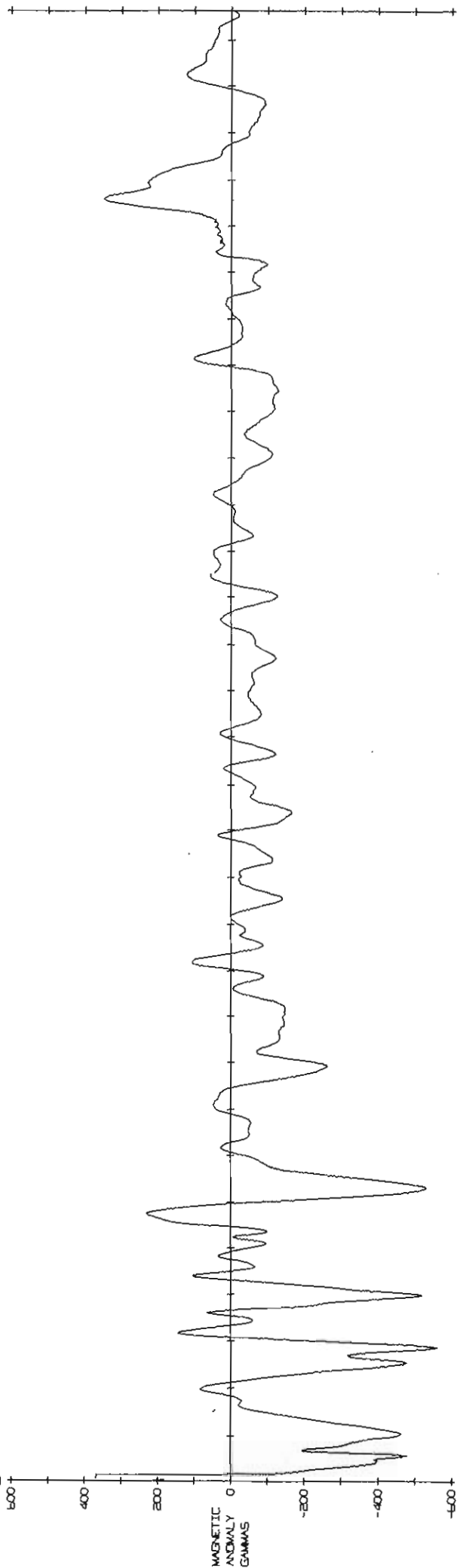


DAY NO 208
TIME HRS

19



18



DAY NO 213
TIME HRS

214
0

18

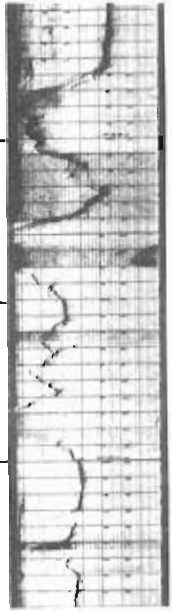
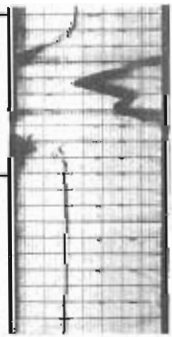
6

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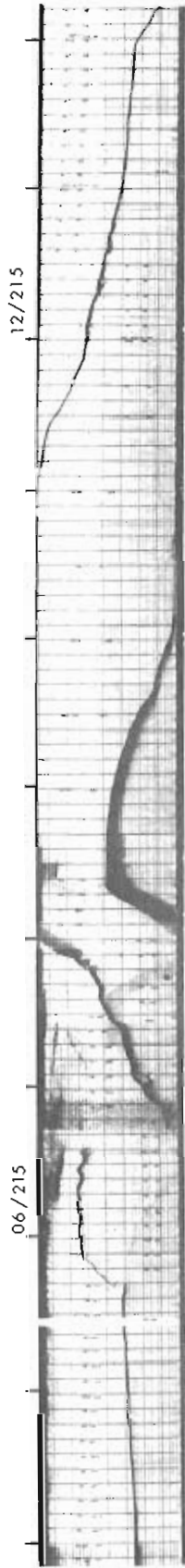
18

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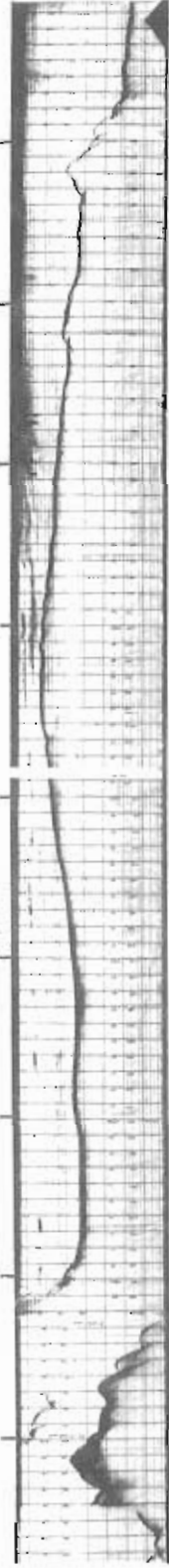


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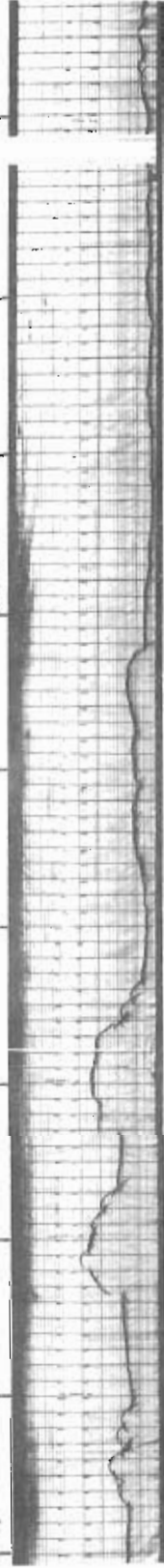
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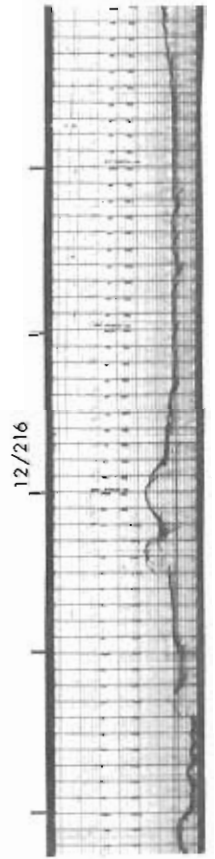


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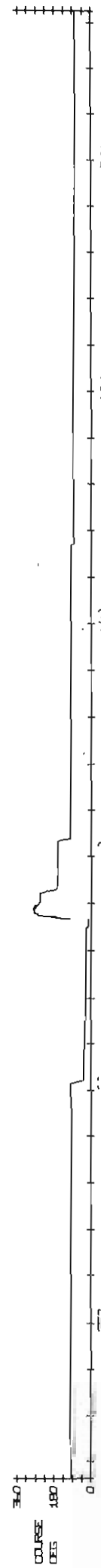
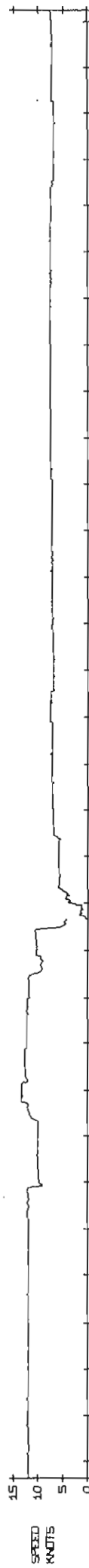
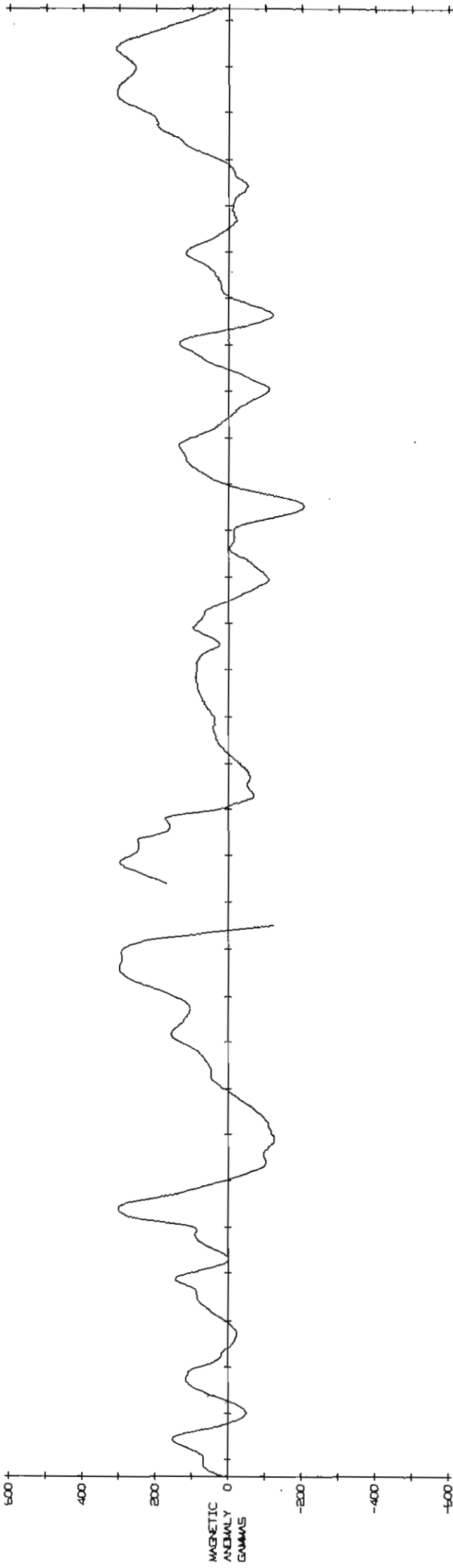
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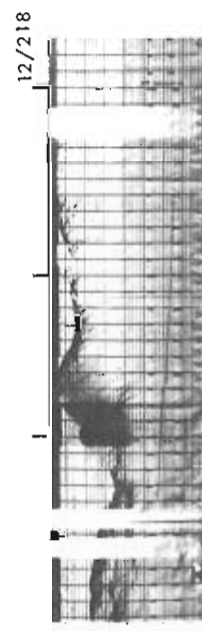
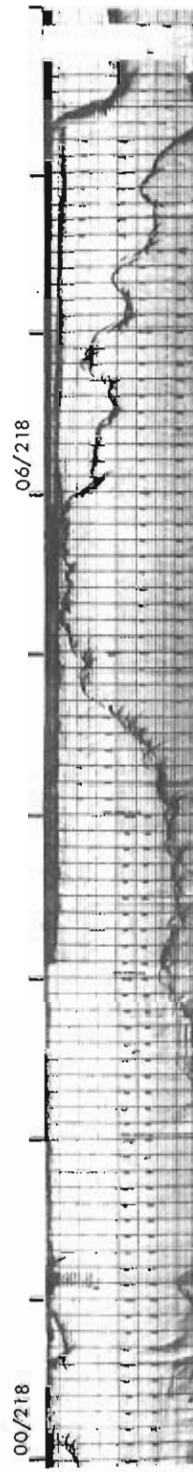
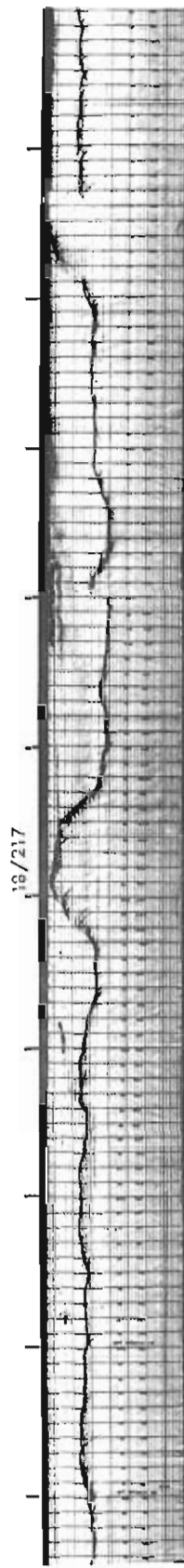
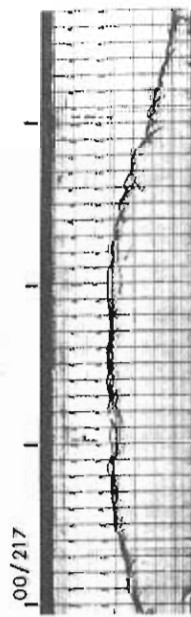
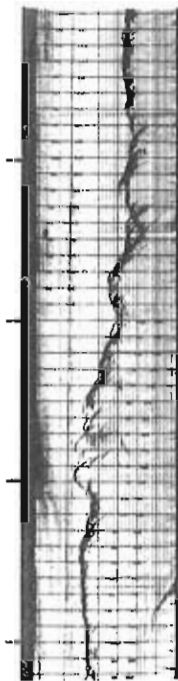
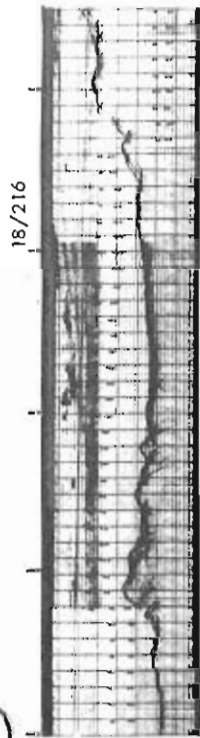


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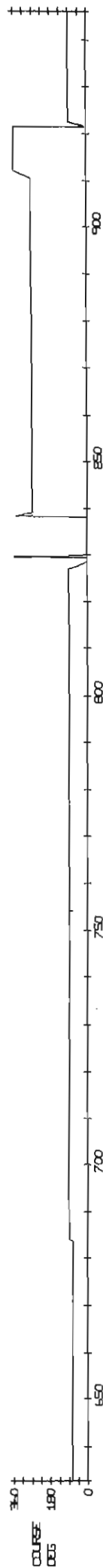
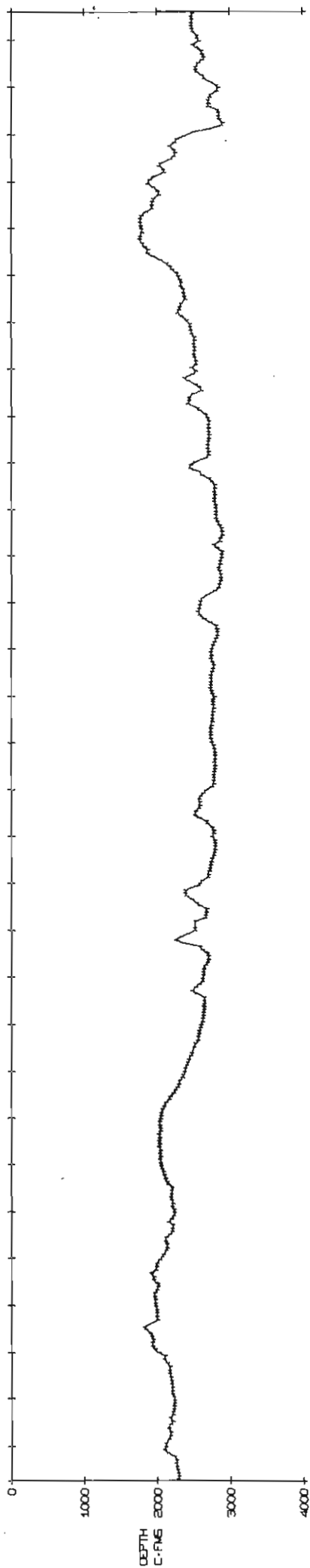
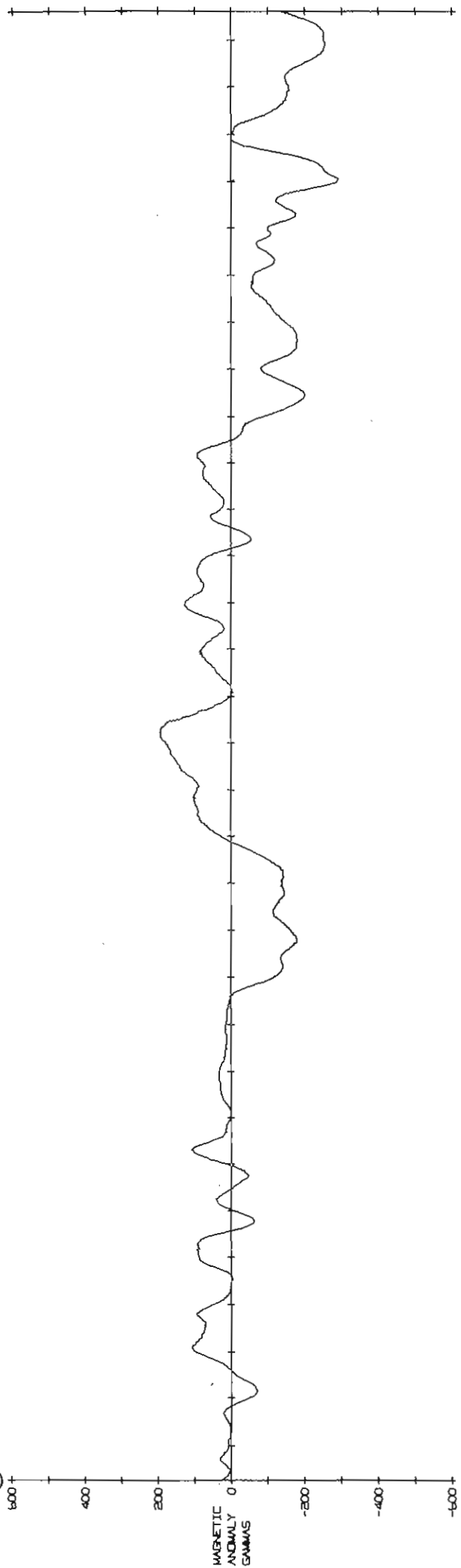


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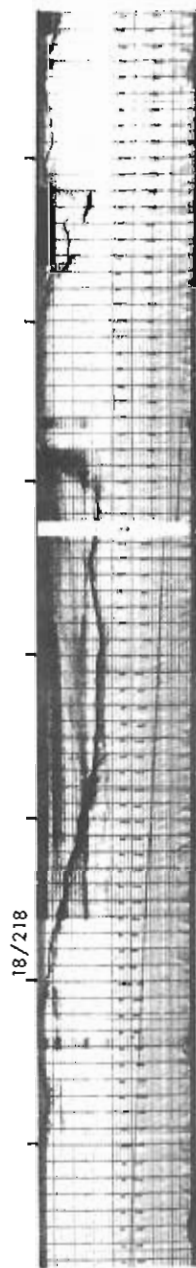
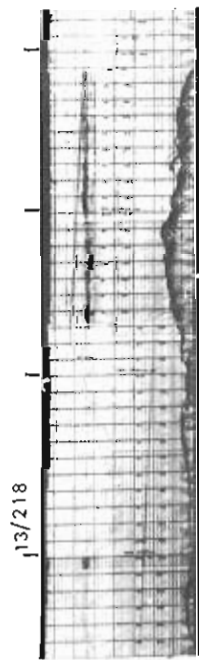


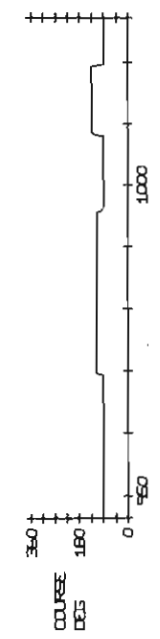
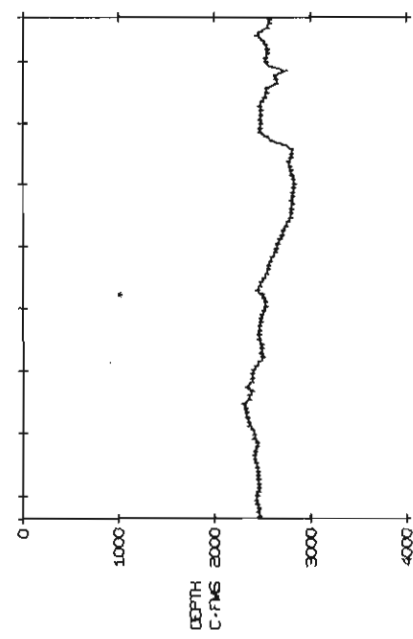
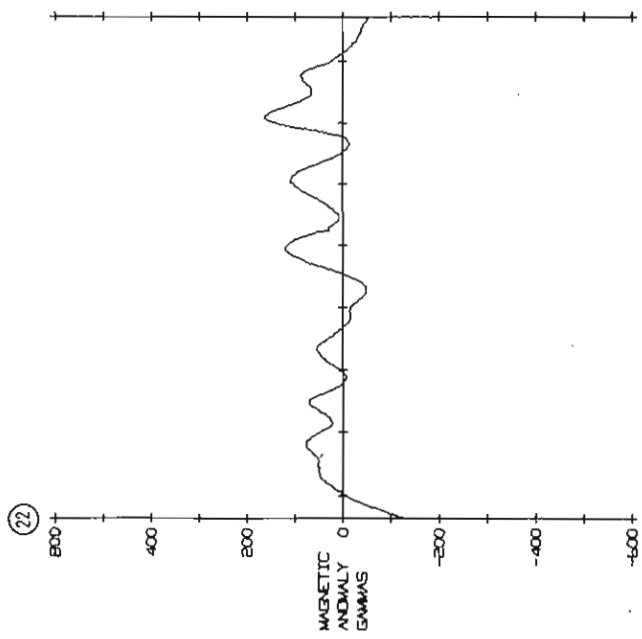


(21)

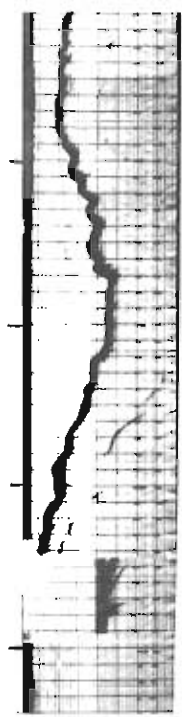
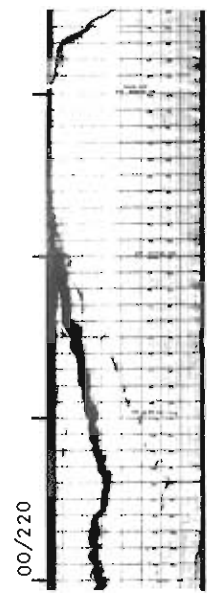
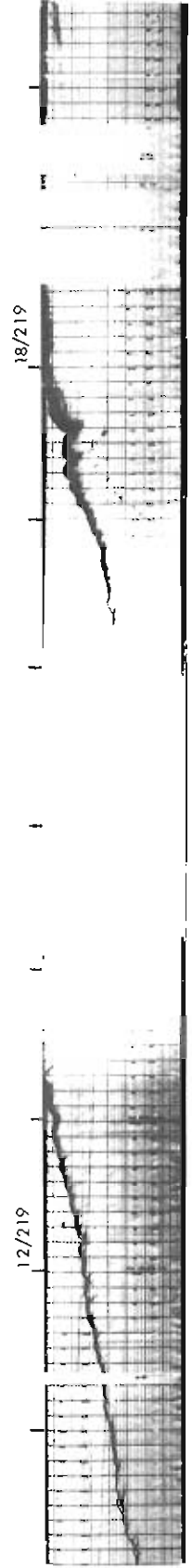
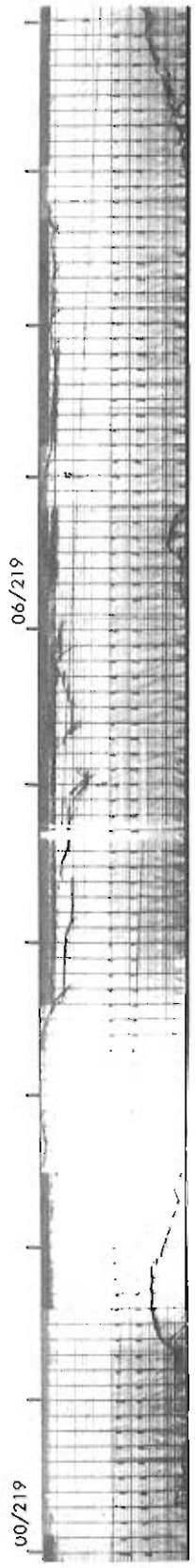


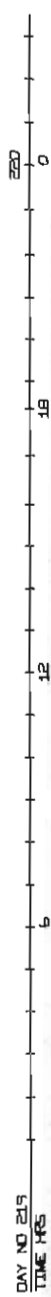
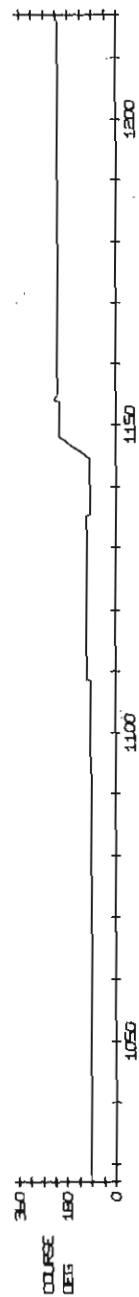
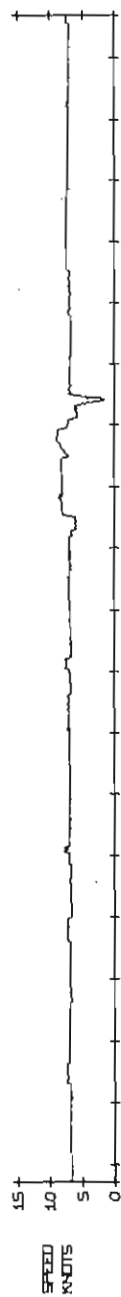
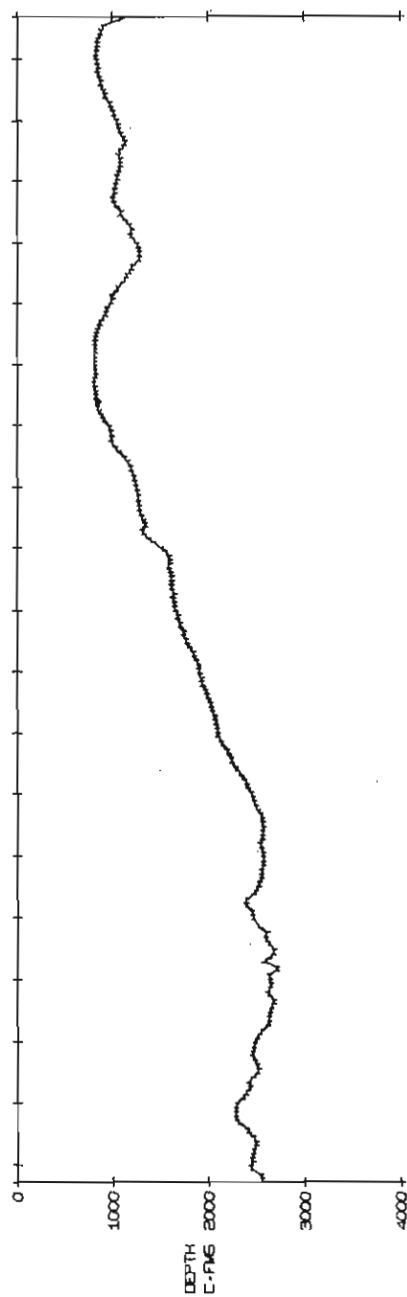
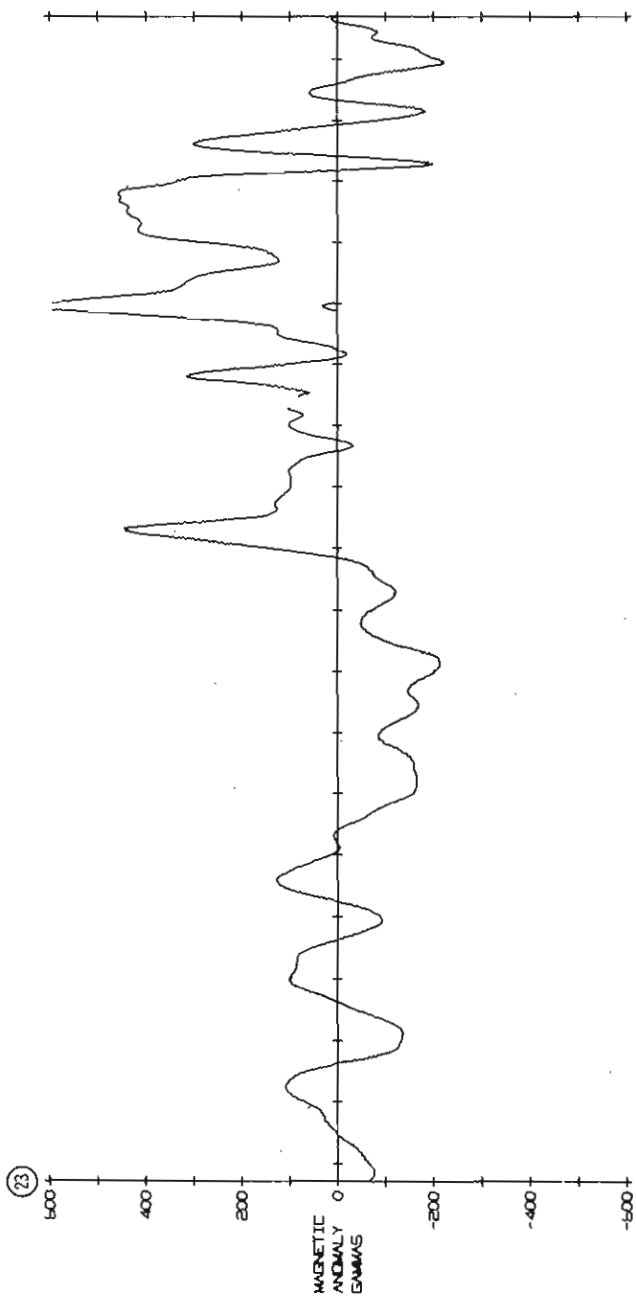
22

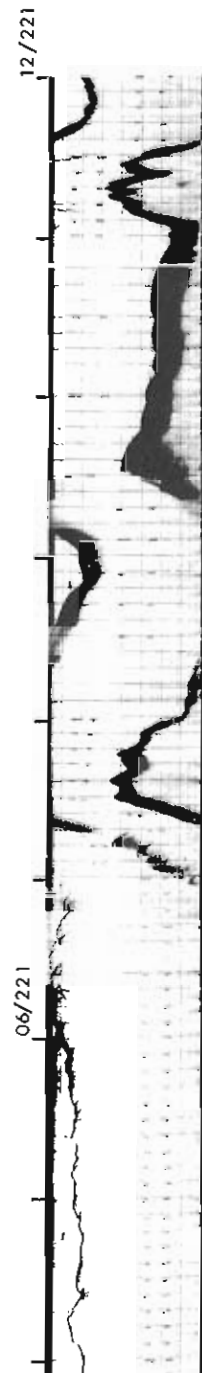
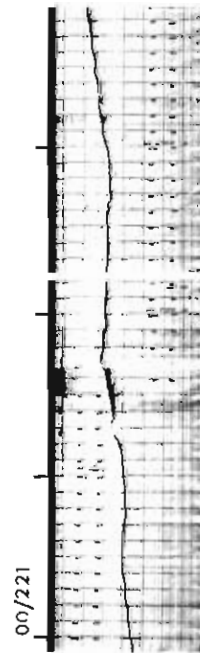
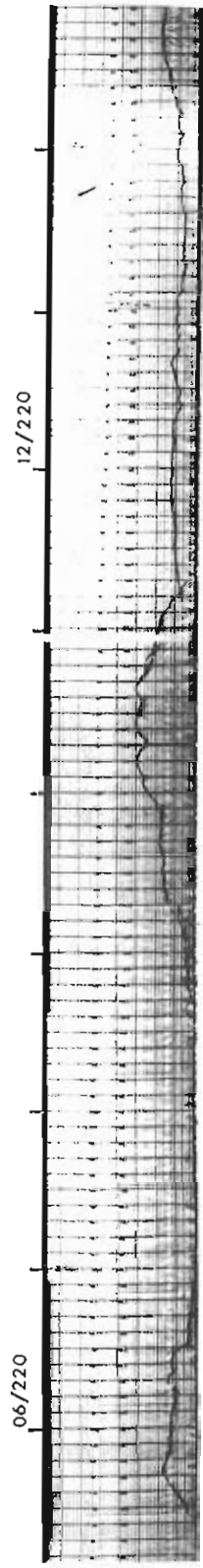
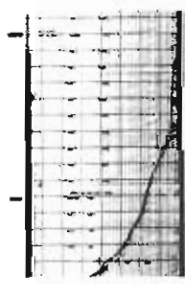




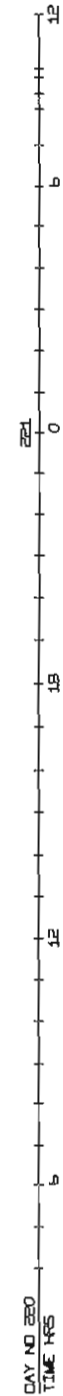
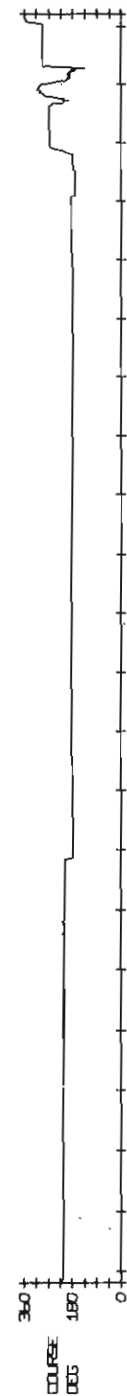
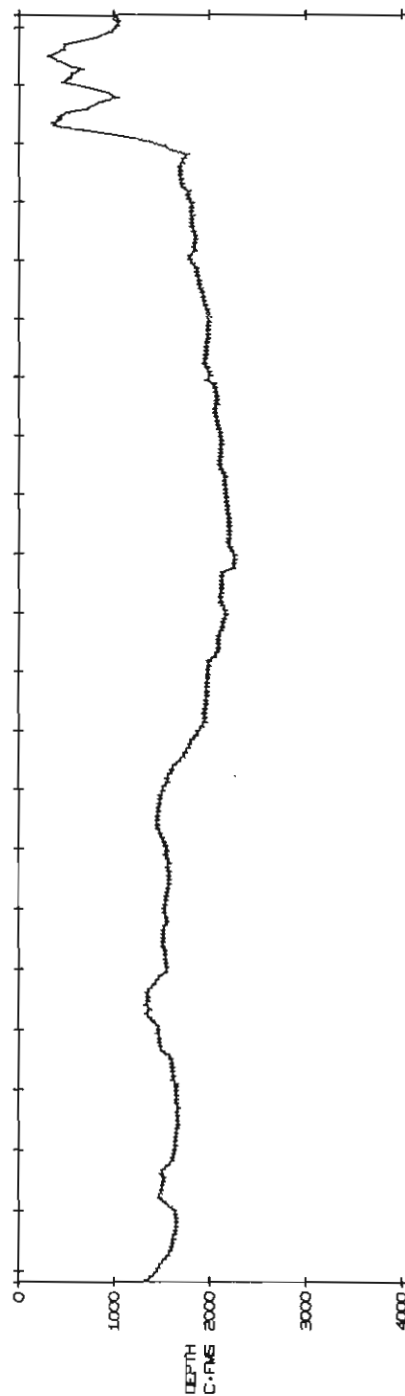
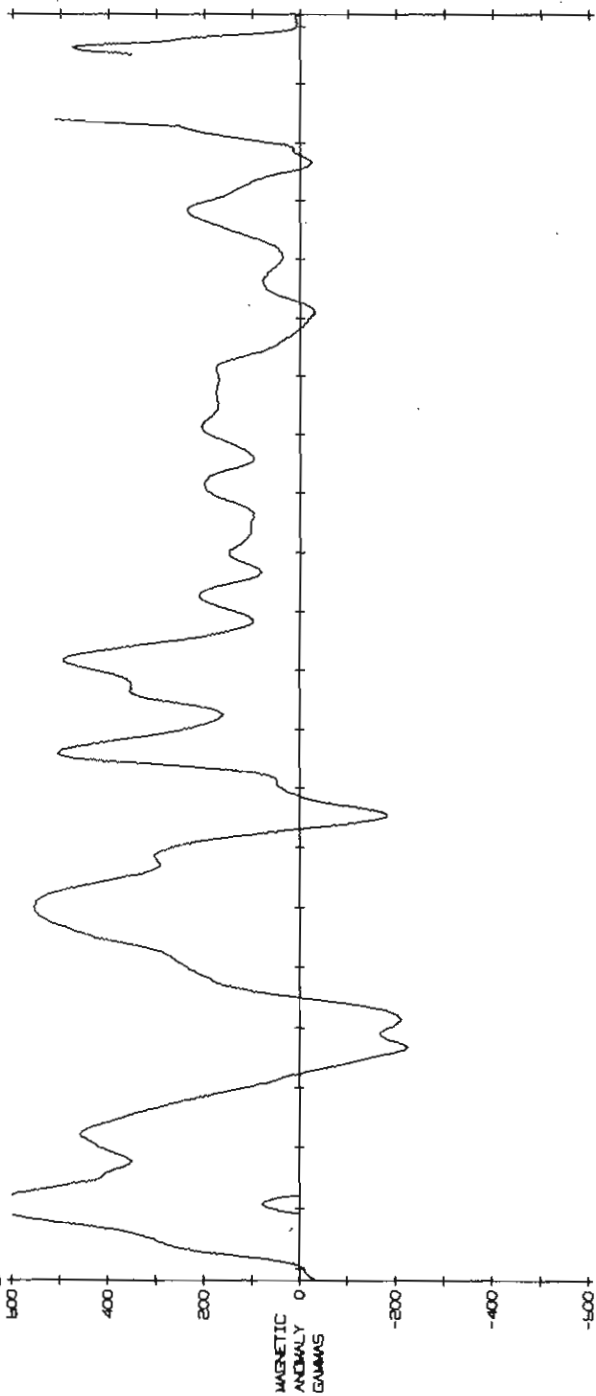
23







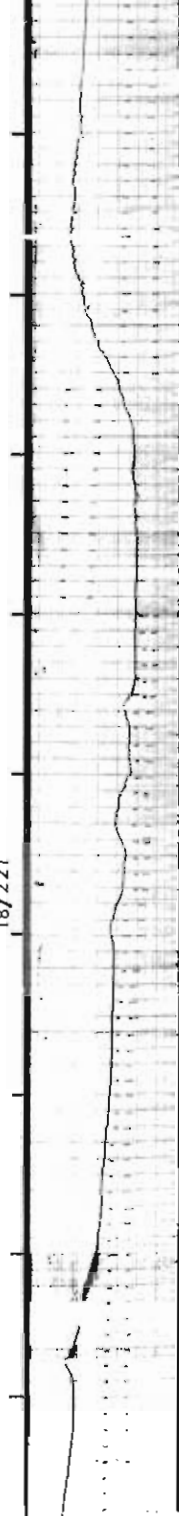
24



25

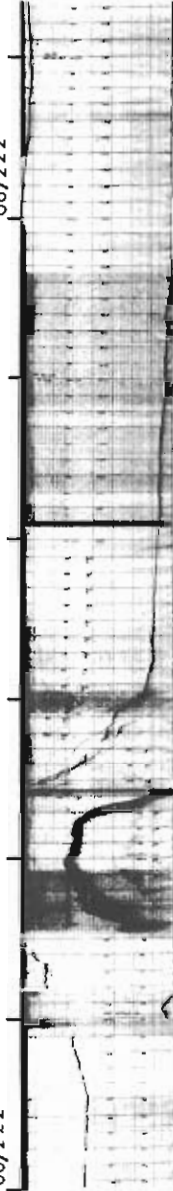


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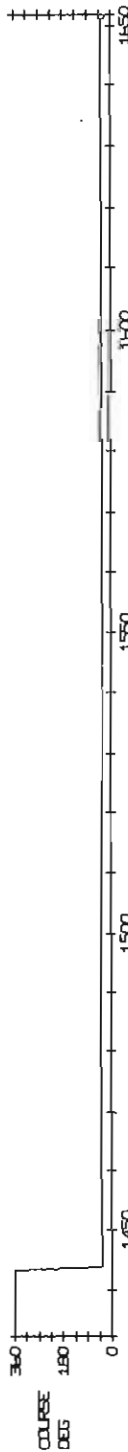
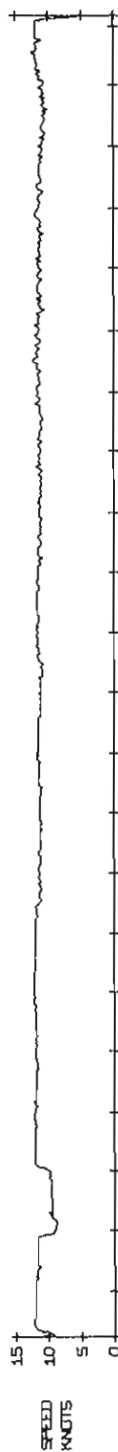
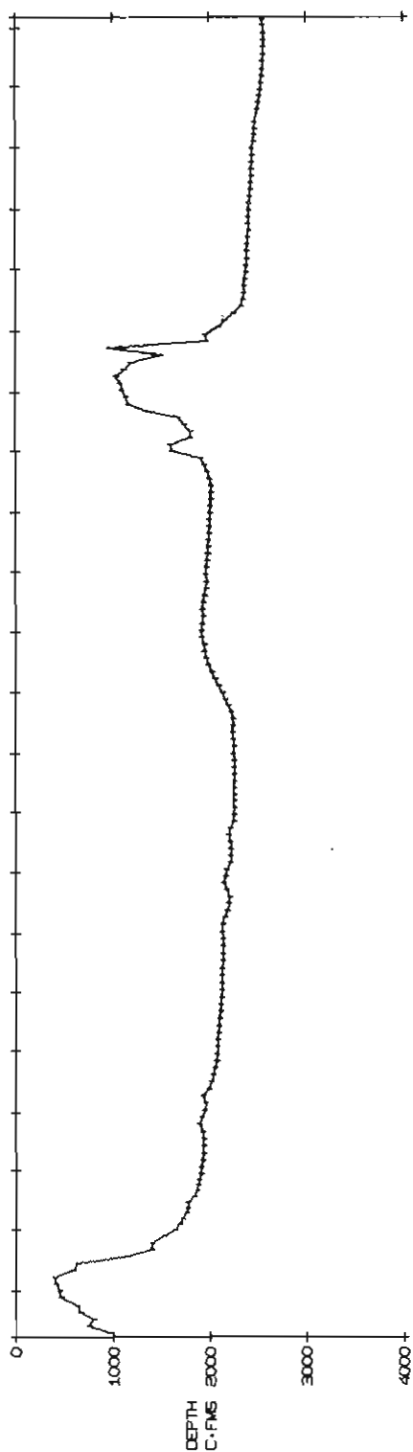
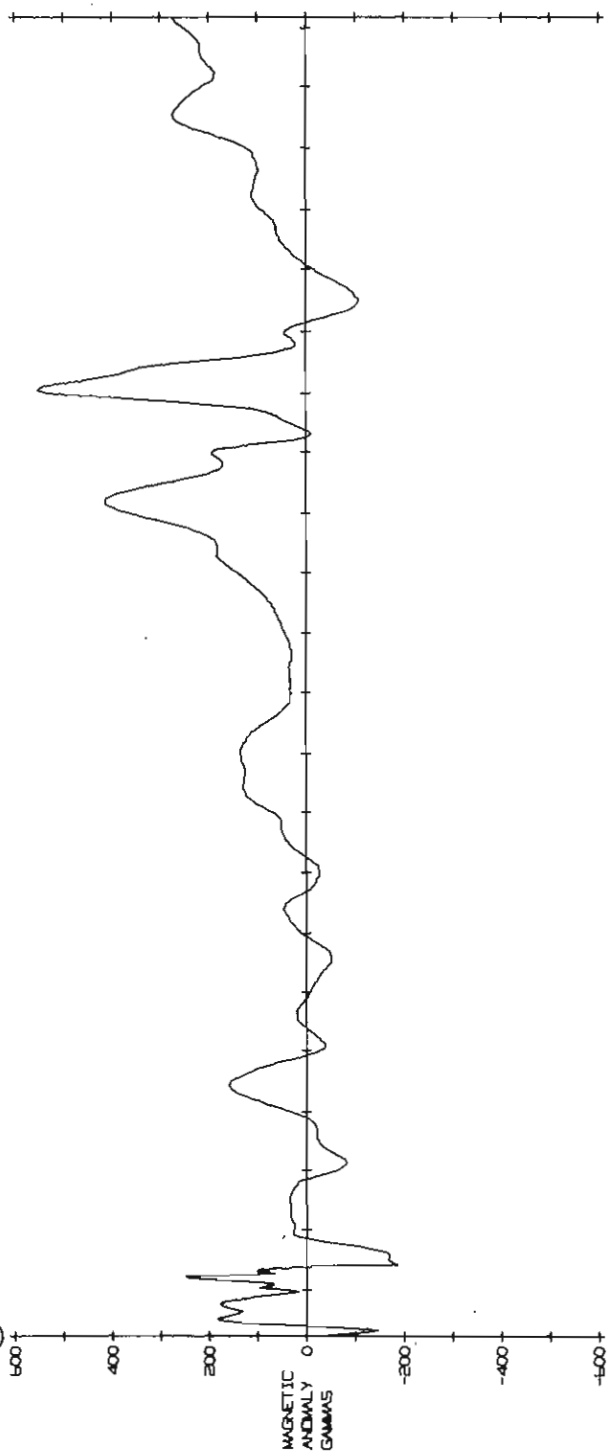


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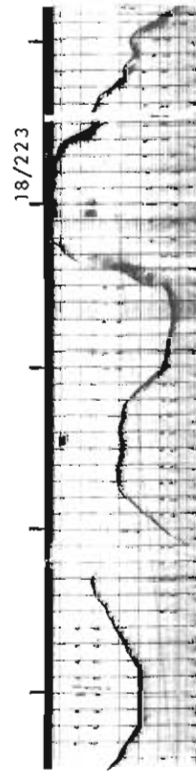
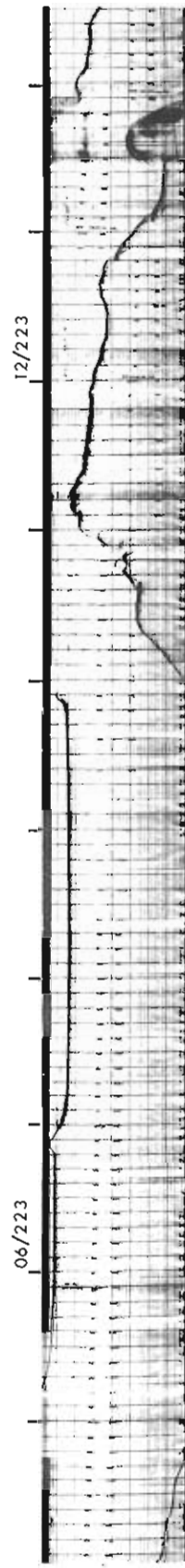
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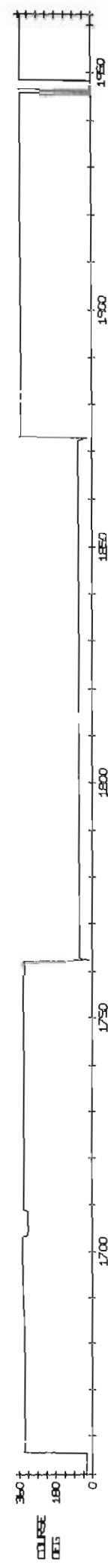
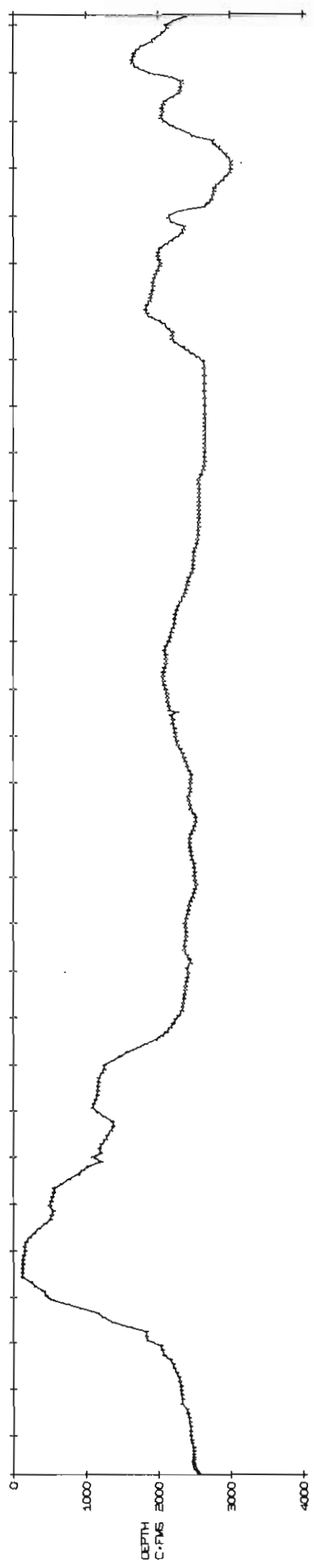
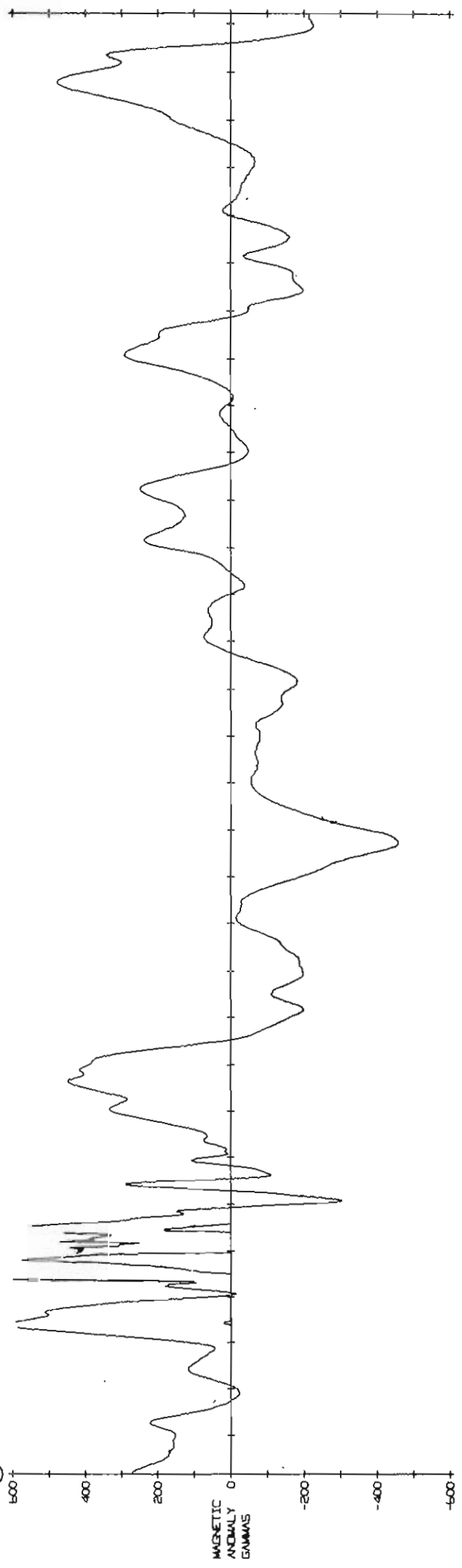
(25)



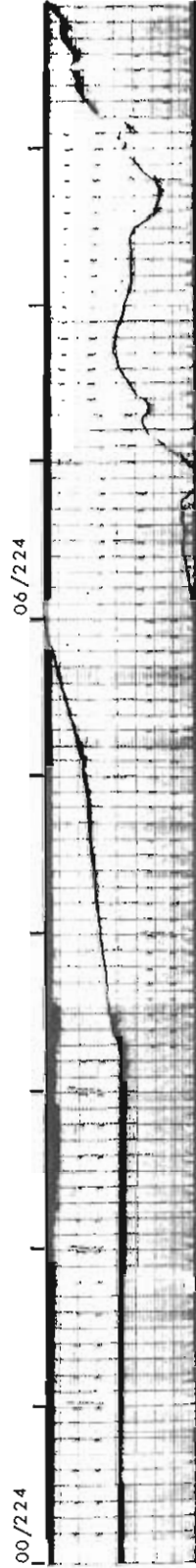
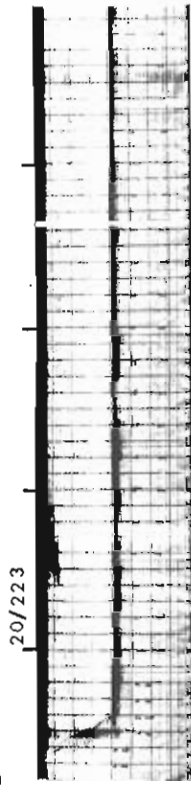
26

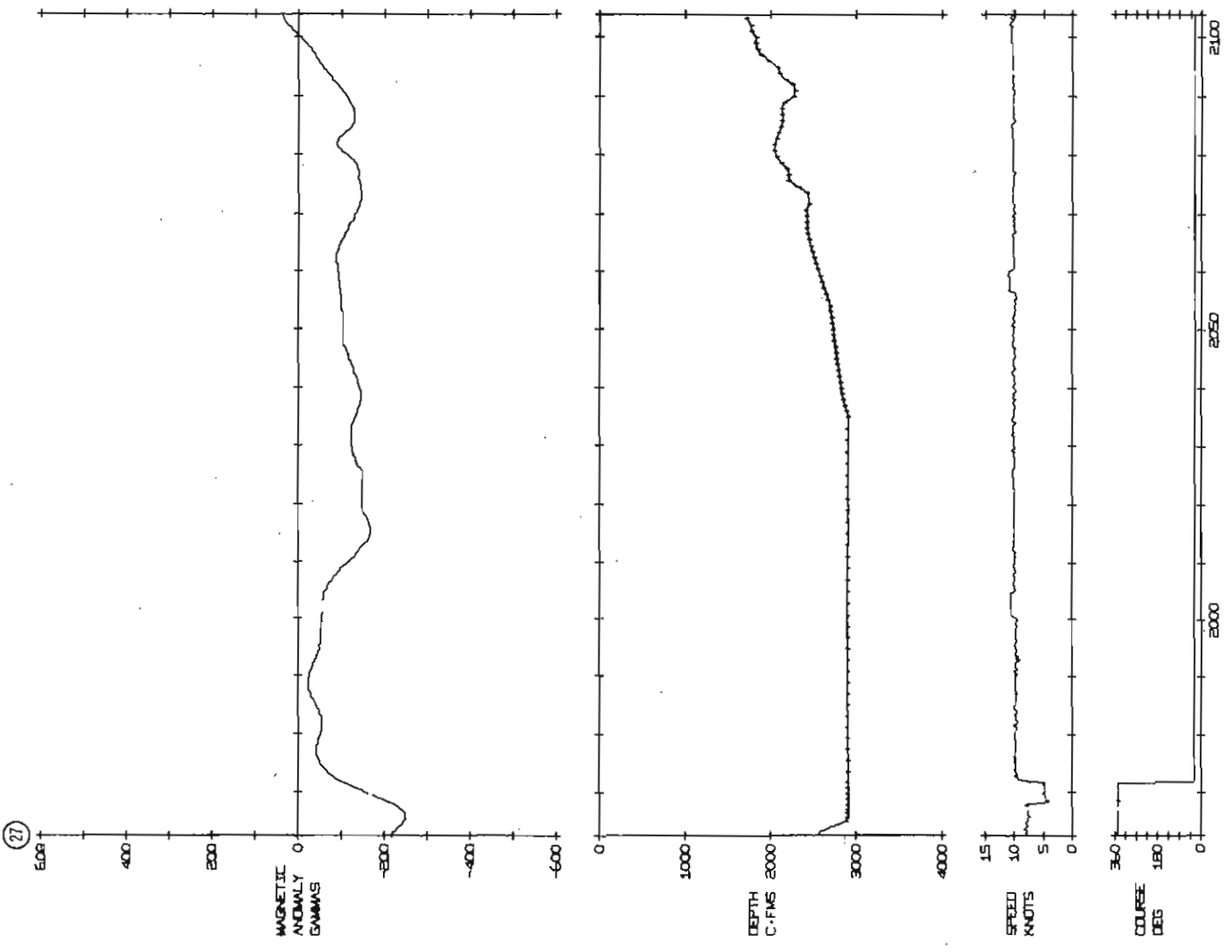


(25)

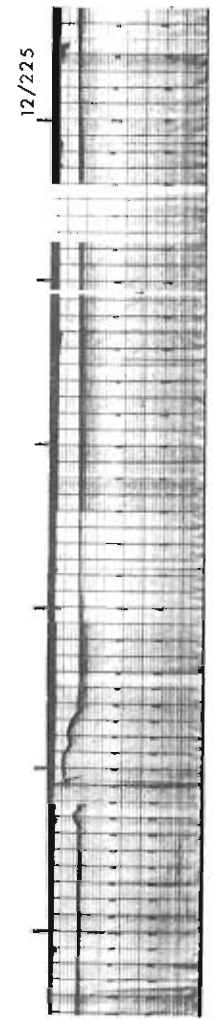
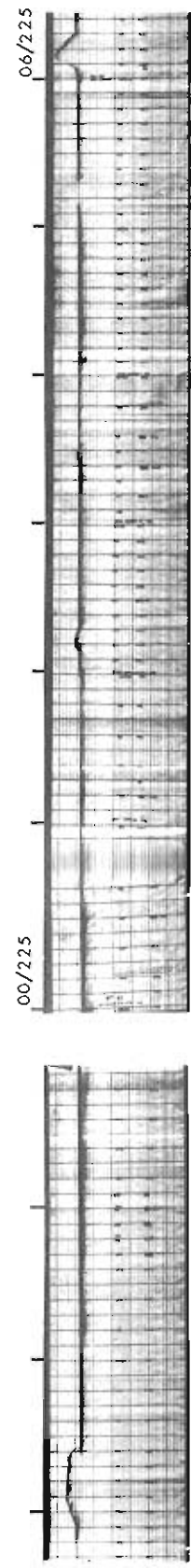
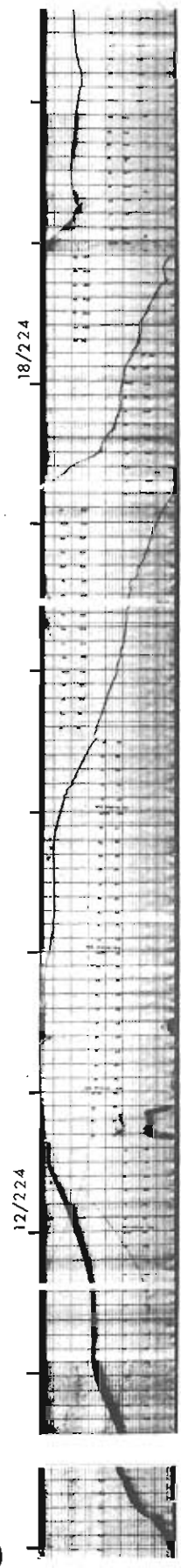


27

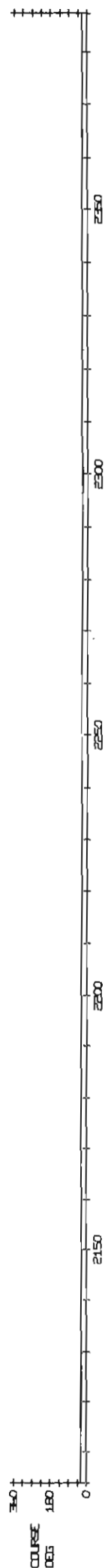
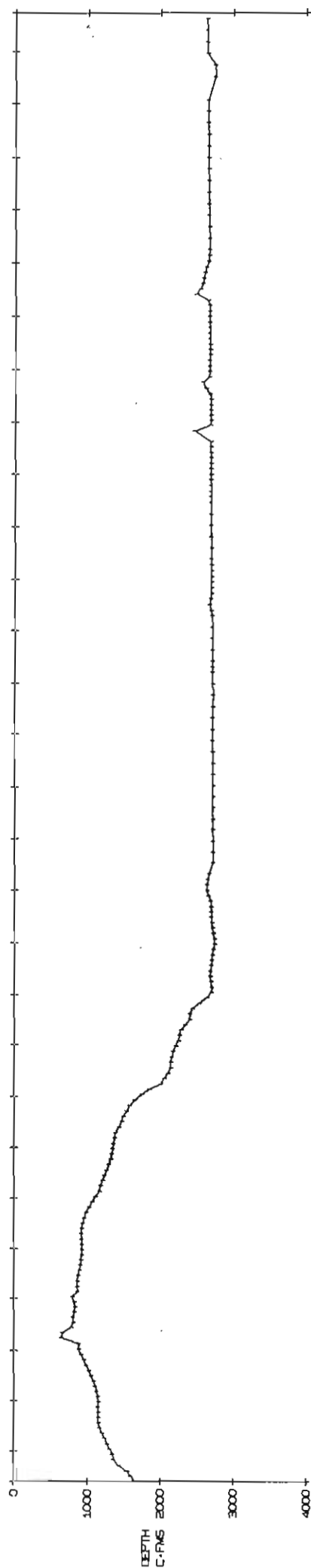
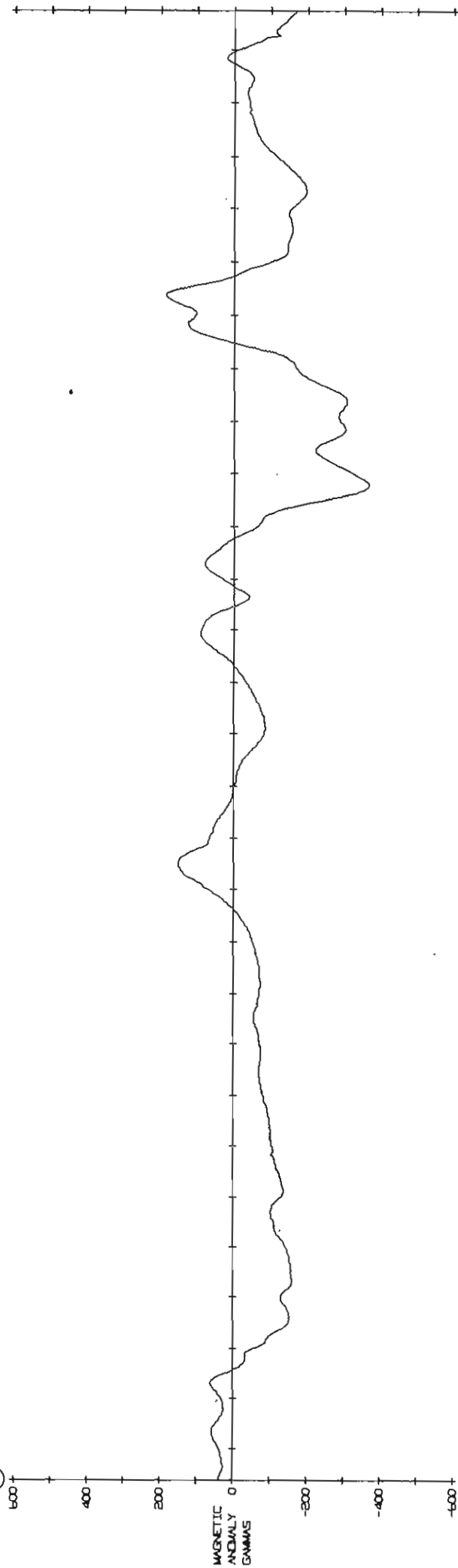




(27)



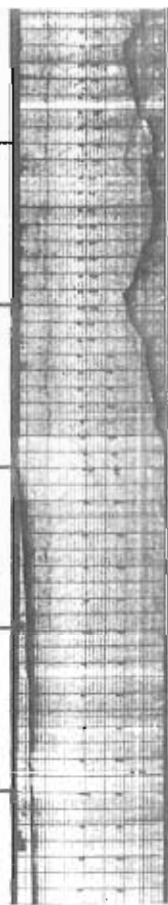
28



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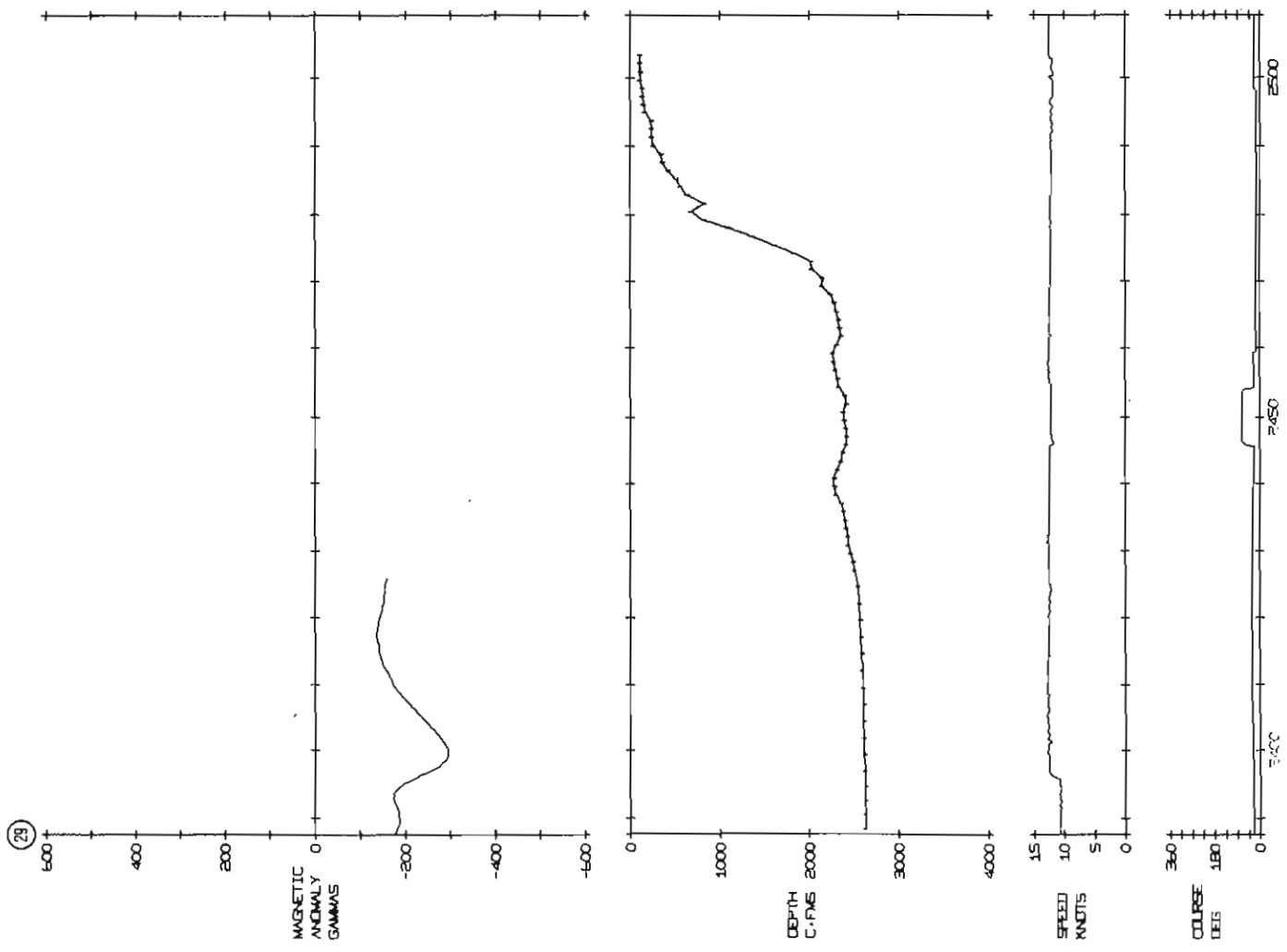


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SECTION B

Letters (N) show start of SRP
records in section F on track
charts

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
182	1314	50.22.3	-9.11.3
182	1436	50.27.3	-9.29.0
182	1530	50.30.4	-9.40.2
182	1554	50.30.7	-9.40.7
182	1608	50.31.0	-9.41.2
182	1654	50.33.6	-9.50.1
182	1712	50.34.6	-9.53.9
182	1958	50.44.4	-10.29.7
182	2018	50.45.4	-10.34.1
182	2114	50.47.8	-10.47.5
182	2220	50.51.0	-11. 3.7
182	2340	50.55.2	-11.23.7
183	36	50.58.5	-11.37.2
183	204	51. 4.6	-11.57.3
183	456	51.16.7	-12.35.7
183	514	51.17.9	-12.39.9
183	532	51.17.7	-12.42.4
183	608	51.16.2	-12.47.0
183	706	51.16.4	-13. 1.4
183	806	51.16.8	-13.17.2
183	822	51.16.9	-13.21.0
183	844	51.17.1	-13.26.2
183	1036	51.17.6	-13.54.0
183	1114	51.17.7	-14. 3.4
183	1124	51.17.3	-14. 4.8
183	1218	51.17.4	-14. 4.4
183	1234	51.17.4	-14. 4.0
183	1308	51.17.4	-14. 3.9
183	1324	51.20.0	-14. 4.1
183	1354	51.19.6	-14. 3.9
183	1406	51.18.4	-14. 3.9
183	1412	51.19.4	-14. 4.1
184	14	53. 1.6	-14. 4.7
184	58	52.53.5	-14. 4.4
184	148	52.43.9	-14. 5.1
184	220	52.37.6	-14. 5.5
184	406	52.16.5	-14. 7.0
184	412	52.15.2	-14. 7.1
184	452	52. 7.1	-14. 7.7
184	558	51.53.6	-14. 9.0
184	624	51.48.3	-14. 9.1
184	636	51.45.8	-14. 9.1
184	704	51.39.9	-14. 8.7
184	722	51.36.1	-14. 8.4
184	738	51.32.9	-14. 8.3
184	748	51.31.3	-14. 8.3
184	838	51.23.6	-14. 8.0
184	852	51.21.6	-14. 7.3
184	910	51.19.4	-14. 5.5
184	920	51.21.0	-14. 5.5
184	932	51.23.1	-14. 6.5
184	944	51.21.4	-14. 4.9
184	952	51.20.6	-14. 3.6
184	1000	51.21.2	-14. 1.9
184	1026	51.24.9	-14. 4.1
184	1044	51.22.5	-14. 0.4
184	1054	51.21.3	-14. 1.4
184	1116	51.19.5	-14. 6.1
184	1132	51.20.3	-14. 3.2
184	1202	51.20.2	-14. 2.8

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
184	1214	51.20.4	-14. 3.2
184	1234	51.20.1	-14. 3.8
184	1258	51.20.1	-14. 3.6
184	1312	51.18.5	-14. 3.0
184	1322	51.17.6	-14. 2.8
184	1336	51.17.2	-14. 3.6
184	1400	51.17.5	-14. 3.5
184	1420	51.20.3	-14. 2.4
184	1436	51.20.1	-14. 3.1
184	1454	51.19.9	-14. 3.9
184	1522	51.19.8	-14. 4.0
184	1536	51.19.7	-14. 6.0
184	1554	51.19.6	-14. 5.7
184	1616	51.19.7	-14. 3.2
184	1628	51.20.3	-14. 3.4
184	1638	51.20.5	-14. 3.7
184	1702	51.18.9	-14. 3.8
184	1706	51.18.9	-14. 3.7
184	1726	51.19.2	-14. 3.4
184	1738	51.20.3	-14. 3.4
184	1742	51.20.3	-14. 3.4
184	1810	51.20.1	-14. 3.7
184	1836	51.20.0	-14. 4.0
184	1850	51.20.0	-14. 3.6
184	1900	51.20.0	-14. 3.8
184	1924	51.20.4	-14. 4.4
184	1934	51.20.3	-14. 4.2
184	1958	51.20.1	-14. 5.1
184	2012	51.20.2	-14. 5.3
184	2026	51.20.1	-14. 4.6
184	2104	51.19.9	-14. 4.6
184	2120	51.20.0	-14. 4.3
184	2134	51.19.9	-14. 4.1
184	2200	51.19.8	-14. 5.2
184	2302	51.21.2	-14. 5.1
184	2324	51.21.0	-14. 1.8
184	2334	51.21.4	-14. 2.1
184	2346	51.20.5	-14. 2.3
184	2356	51.20.7	-14. 3.4
185	16	51.20.5	-14. 2.1
185	112	51.20.6	-14. 2.7
185	140	51.20.6	-14. 2.0
185	256	51.20.2	-14. 1.2
185	324	51.19.8	-14. 2.5
185	348	51.19.8	-14. 4.5
185	402	51.20.3	-14. 7.0
185	416	51.20.3	-14. 7.4
185	440	51.17.1	-14. 10.8
185	546	51. 7.9	-14. 20.5
185	646	50.59.5	-14. 30.8
185	714	50.55.8	-14. 35.5
185	808	50.47.9	-14. 44.8
185	956	50.32.0	-15. 2.5
185	1010	50.30.2	-15. 4.5
185	1046	50.24.6	-15. 10.2
185	1204	50.13.1	-15. 22.3
185	1246	50. 6.8	-15. 28.8
185	1458	49.46.8	-15. 48.7
185	1524	49.43.0	-15. 52.6
185	1544	49.40.2	-15. 55.6

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
185	1726	49.25.2	-16.11.9
185	1952	49. 4.6	-16.36.5
185	2034	48.59.1	-16.44.2
185	2102	48.55.4	-16.49.0
185	2128	48.51.9	-16.53.1
185	2232	48.43.2	-17. 2.7
186	36	48.26.1	-17.22.2
186	152	48.15.5	-17.33.7
186	342	47.59.9	-17.49.2
186	632	47.36.4	-18.13.2
186	720	47.30.5	-18.20.2
186	818	47.23.0	-18.28.9
186	938	47.11.9	-18.40.2
186	950	47.10.8	-18.42.2
186	1112	46.59.9	-18.54.0
186	1142	46.55.7	-18.58.1
186	1332	46.39.8	-19.13.5
186	1340	46.38.7	-19.14.5
186	1448	46.34.7	-19.17.1
186	1508	46.33.3	-19.18.1
186	1802	46.16.1	-19.34.1
186	1836	46.12.3	-19.37.5
186	1850	46.11.8	-19.39.0
186	1922	46. 9.5	-19.42.1
186	1938	46. 8.1	-19.43.6
186	2004	46. 5.9	-19.46.1
186	2018	46. 4.5	-19.47.8
186	2136	45.57.2	-19.57.3
186	2144	45.56.8	-19.57.7
186	2208	45.55.5	-19.59.6
186	2214	45.55.0	-20. 0.3
186	2330	45.48.1	-20. 9.3
187	20	45.43.5	-20.15.0
187	330	45.25.0	-20.33.8
187	414	45.20.7	-20.38.1
187	534	45.13.0	-20.45.9
187	634	45. 7.3	-20.51.4
187	824	44.56.2	-21. 2.3
187	848	44.54.1	-21. 4.4
187	854	44.53.7	-21. 4.8
187	922	44.51.2	-21. 7.3
187	1006	44.47.2	-21.11.5
187	1032	44.44.5	-21.14.1
187	1432	44.20.7	-21.36.8
187	1544	44.13.6	-21.43.6
187	1714	44. 4.3	-21.51.9
187	1812	43.58.4	-21.57.1
187	1942	43.49.5	-22. 5.6
187	2056	43.42.3	-22.12.5
187	2258	43.30.3	-22.24.1
188	116	43.17.0	-22.36.9
188	256	43. 7.1	-22.46.0
188	512	42.52.9	-22.58.5
188	648	42.43.8	-23. 8.7
188	708	42.42.2	-23.10.5
188	740	42.40.5	-23.12.1
188	756	42.39.6	-23.13.0
188	814	42.40.1	-23.15.3
188	856	42.43.2	-23.21.0
188	906	42.43.6	-23.21.8

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
188	942	42.44.2	-23.21.3
188	1012	42.44.4	-23.20.9
188	1138	42.43.3	-23.19.4
188	1236	42.42.9	-23.18.1
188	1342	42.41.4	-23.14.7
188	1434	42.40.4	-23.12.3
188	1508	42.39.9	-23.11.4
188	1522	42.39.0	-23.11.0
188	1538	42.38.2	-23.12.1
188	1556	42.37.2	-23.14.0
188	1642	42.34.5	-23.20.1
188	1804	42.29.7	-23.30.6
188	1942	42.23.4	-23.42.7
188	2022	42.20.2	-23.47.4
188	2104	42.16.9	-23.52.1
188	2152	42.13.2	-23.57.2
188	2232	42.10.1	-24. 1.7
188	2354	42. 3.8	-24.11.0
189	22	42. 1.6	-24.14.1
189	222	41.52.4	-24.28.6
189	330	41.47.3	-24.36.4
189	448	41.41.3	-24.45.3
189	604	41.35.6	-24.53.7
189	726	41.29.5	-25. 2.7
189	904	41.22.2	-25.13.8
189	1018	41.16.4	-25.21.9
189	1102	41.12.7	-25.26.7
189	1156	41. 7.5	-25.31.7
189	1236	41. 4.2	-25.35.8
189	1340	40.59.7	-25.43.1
189	1608	40.48.9	-26. 0.0
189	1714	40.43.8	-26. 7.1
189	2002	40.31.8	-26.25.2
189	2200	40.23.7	-26.37.8
190	18	40.13.6	-26.53.1
190	340	39.58.5	-27.16.1
190	450	39.53.4	-27.24.5
190	628	39.46.8	-27.34.6
190	752	39.41.0	-27.44.6
190	944	39.32.4	-27.56.2
190	1018	39.30.3	-27.59.0
190	1040	39.29.1	-28. 0.7
190	1056	39.28.4	-28. 1.6
190	1122	39.27.8	-28. 2.0
190	1140	39.26.9	-28. 3.3
190	1150	39.26.5	-28. 4.3
190	1212	39.25.7	-28. 6.9
190	1246	39.24.2	-28.11.1
190	1354	39.20.9	-28.20.8
190	1512	39.18.3	-28.32.4
190	1722	39.13.9	-28.51.7
190	1950	39. 8.7	-29.13.4
190	2136	38.59.0	-29.24.1
191	152	38.37.3	-29.48.5
191	358	38.25.9	-29.59.4
191	734	38.16.5	-30.27.2
191	840	38.13.1	-30.35.4
191	954	38. 9.2	-30.46.1
191	1124	38. 5.2	-30.59.4
191	1302	38. 1.0	-31.13.9

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
191	1616	37.53.7	-31.42.6
191	1754	37.49.7	-31.57.5
191	2104	37.35.5	-32.22.2
191	2304	37.27.0	-32.37.2
192	126	37.16.8	-32.53.3
192	322	37. 8.0	-33. 7.4
192	412	37. 4.1	-33.13.1
192	556	36.56.7	-33.25.9
192	616	36.55.6	-33.28.5
192	646	36.54.2	-33.32.6
192	746	36.50.2	-33.40.2
192	844	36.46.3	-33.47.4
192	1134	36.34.5	-34. 8.1
192	1218	36.31.5	-34.13.7
192	1410	36.23.9	-34.28.9
192	1512	36.19.9	-34.37.4
192	1600	36.24.9	-34.42.1
192	1624	36.27.6	-34.44.2
192	1634	36.28.3	-34.43.3
192	1714	36.28.9	-34.37.3
192	1800	36.32.1	-34.31.9
192	1820	36.32.7	-34.29.2
192	1940	36.39.0	-34.20.2
192	2036	36.43.1	-34.13.4
192	2112	36.45.8	-34. 8.8
192	2148	36.48.3	-34. 4.5
192	2300	36.52.9	-33.55.3
192	2348	36.55.8	-33.49.5
193	46	36.59.2	-33.42.2
193	200	37. 3.8	-33.32.6
193	246	37. 6.4	-33.27.0
193	416	37.12.4	-33.16.5
193	610	37.20.7	-33. 3.8
193	736	37.26.9	-32.53.7
193	820	37.30.1	-32.48.6
193	846	37.32.9	-32.50.7
193	902	37.34.2	-32.52.1
193	940	37.31.5	-32.56.1
193	1046	37.26.8	-33. 3.3
193	1142	37.23.5	-33.10.1
193	1240	37.19.9	-33.17.0
193	1318	37.17.6	-33.21.9
193	1406	37.14.7	-33.27.9
193	1822	36.57.3	-33.58.5
193	1956	36.50.8	-34. 9.8
193	2006	36.50.1	-34.11.1
193	2014	36.49.7	-34.11.9
193	2040	36.48.0	-34.14.8
193	2108	36.46.1	-34.18.3
193	2136	36.44.2	-34.21.6
193	2154	36.42.9	-34.23.5
193	2308	36.34.8	-34.25.3
193	2338	36.31.4	-34.26.3
194	200	36.15.2	-34.31.2
194	218	36.13.1	-34.31.5
194	230	36.13.5	-34.30.2
194	342	36.17.9	-34.21.6
194	510	36.23.4	-34.11.3
194	650	36.30.2	-33.59.4
194	828	36.37.3	-33.47.6

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
194	850	36.38.9	-33.44.7
194	908	36.40.3	-33.42.7
194	926	36.41.7	-33.40.8
194	1018	36.45.5	-33.34.2
194	1112	36.49.2	-33.27.6
194	1210	36.53.2	-33.20.4
194	1318	36.57.8	-33.12.3
194	1416	37. 1.8	-33. 5.3
194	1644	37.11.4	-32.46.6
194	1746	37.15.8	-32.39.0
194	1754	37.16.4	-32.38.0
194	1850	37.20.3	-32.31.5
194	1910	37.21.5	-32.29.2
194	1942	37.23.6	-32.25.3
194	2018	37.25.8	-32.20.8
194	2106	37.28.3	-32.14.6
194	2130	37.26.1	-32.12.4
194	2204	37.22.6	-32. 9.7
194	2226	37.21.0	-32.12.0
194	2302	37.18.8	-32.16.1
194	2322	37.17.9	-32.18.6
194	2354	37.15.7	-32.22.1
195	8	37.14.7	-32.23.6
195	52	37.11.4	-32.28.7
195	116	37.11.2	-32.32.3
195	128	37.10.9	-32.33.9
195	310	37. 3.8	-32.46.6
195	546	36.53.8	-33. 6.6
195	550	36.53.5	-33. 7.0
195	820	36.43.5	-33.25.1
195	832	36.42.7	-33.26.5
195	856	36.41.4	-33.29.1
195	914	36.40.5	-33.31.0
195	936	36.39.1	-33.33.7
195	1020	36.36.6	-33.39.2
195	1056	36.34.3	-33.43.4
195	1232	36.27.4	-33.53.5
195	1422	36.20.7	-34. 6.6
195	1546	36.14.4	-34.16.1
195	1752	36. 4.5	-34.30.0
195	1816	36. 2.3	-34.28.1
195	1848	35.59.6	-34.25.4
195	1852	35.59.8	-34.24.9
195	1934	36. 2.6	-34.20.1
195	2022	36. 6.6	-34.15.3
195	2046	36. 8.5	-34.12.6
195	2136	36.12.2	-34. 6.8
195	2256	36.18.1	-33.57.3
196	6	36.23.1	-33.48.9
196	348	36.37.2	-33.21.3
196	552	36.46.2	-33. 6.5
196	846	36.57.8	-32.45.5
196	904	36.58.8	-32.43.8
196	952	37. 1.7	-32.38.1
196	1218	37.10.9	-32.19.9
196	1258	37.13.5	-32.15.0
196	1406	37.18.5	-32. 6.4
196	1422	37.17.1	-32. 4.7
196	1444	37.14.9	-32. 3.0
196	1504	37.13.5	-32. 5.1

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
196	1648	37. 6.8	-32.17.3
196	1826	37. 0.3	-32.30.0
196	1928	36.56.3	-32.37.7
196	2052	36.50.6	-32.47.1
197	20	36.36.5	-33.14.5
197	54	36.34.1	-33.18.7
197	246	36.25.1	-33.31.0
197	544	36.12.5	-33.52.7
197	634	36. 9.3	-33.59.0
197	746	36. 4.0	-34. 7.4
197	804	36. 2.5	-34. 9.4
197	836	35.59.5	-34. 7.1
197	854	35.57.9	-34. 5.4
197	926	35.59.8	-34. 1.5
197	1002	36. 2.2	-33.57.5
197	1052	36. 5.6	-33.52.0
197	1132	36. 8.2	-33.47.5
197	1328	36.15.8	-33.34.3
197	1442	36.20.8	-33.25.6
197	1742	36.33.5	-33. 4.4
197	1812	36.35.7	-33. 0.7
197	2006	36.43.8	-32.47.1
197	2046	36.46.7	-32.42.1
197	2114	36.48.6	-32.38.6
197	2130	36.47.4	-32.36.9
197	2208	36.43.8	-32.33.9
197	2230	36.42.3	-32.36.4
198	0	36.35.9	-32.47.2
198	154	36.27.5	-33. 0.6
198	318	36.21.7	-33.10.8
198	329	36.21.1	-33.11.8
198	344	36.20.3	-33.13.3
198	536	36.12.3	-33.27.2
198	706	36. 6.3	-33.38.6
198	804	36. 2.1	-33.45.6
198	904	35.57.9	-33.53.1
198	918	35.56.5	-33.52.5
198	954	35.53.3	-33.49.8
198	1010	35.54.1	-33.48.0
198	1220	36. 3.3	-33.32.8
198	1338	36. 8.9	-33.23.4
198	1522	36.16.3	-33.11.1
198	1538	36.18.0	-33.12.2
198	1630	36.23.6	-33.16.4
198	1726	36.29.7	-33.20.9
198	1742	36.30.7	-33.22.3
198	1834	36.32.5	-33.29.4
198	1844	36.33.1	-33.30.5
198	1906	36.35.4	-33.30.0
198	1936	36.38.6	-33.28.4
198	1950	36.38.8	-33.26.6
198	2140	36.50.3	-33.21.2
198	2244	36.56.9	-33.16.7
198	2334	37. 2.3	-33.13.1
198	2352	37. 1.8	-33.10.6
199	26	37. 0.2	-33. 6.2
199	58	36.56.8	-33. 8.4
199	218	36.47.9	-33.13.6
199	414	36.34.9	-33.20.0
199	448	36.31.1	-33.22.0

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
199	500	36.31.1	-33.23.7
199	520	36.32.0	-33.26.4
199	540	36.34.0	-33.25.9
199	644	36.41.1	-33.23.1
199	722	36.45.3	-33.20.8
199	930	36.59.3	-33.12.0
199	954	36.58.6	-33. 8.4
199	1004	36.57.8	-33. 7.4
199	1044	36.53.3	-33. 9.3
199	1100	36.51.4	-33.10.3
199	1148	36.47.3	-33.15.4
199	1220	36.44.7	-33.19.2
199	1230	36.44.7	-33.20.5
199	1242	36.46.0	-33.20.0
199	1316	36.49.3	-33.17.2
199	1328	36.48.2	-33.16.2
199	1414	36.42.7	-33.15.0
199	1456	36.37.5	-33.14.3
199	1520	36.36.2	-33.17.5
199	1714	36.30.0	-33.33.2
199	1800	36.24.8	-33.35.7
199	1934	36.13.7	-33.41.0
199	1952	36.14.0	-33.43.6
199	2034	36.15.6	-33.49.9
199	2048	36.16.9	-33.49.9
199	2134	36.22.0	-33.48.4
199	2228	36.28.5	-33.46.1
199	2304	36.32.7	-33.44.4
199	2316	36.32.0	-33.43.2
200	16	36.25.7	-33.39.5
200	114	36.19.7	-33.35.6
200	126	36.19.5	-33.37.2
200	236	36.21.1	-33.47.9
200	406	36.23.1	-34. 1.8
200	500	36.24.0	-34.10.3
200	536	36.21.8	-34.14.9
200	720	36.15.2	-34.27.8
200	820	36.11.4	-34.35.5
200	832	36.12.3	-34.36.5
200	856	36.14.5	-34.38.4
200	906	36.15.5	-34.39.2
200	954	36.20.3	-34.43.4
200	1004	36.21.3	-34.43.3
200	1042	36.24.0	-34.39.0
200	1130	36.27.5	-34.33.4
200	1220	36.31.0	-34.27.6
200	1454	36.41.7	-34. 9.4
200	1616	36.47.2	-33.59.6
200	1702	36.50.3	-33.53.6
200	1758	36.54.1	-33.46.6
200	1942	37. 1.1	-33.33.9
200	2018	37. 3.3	-33.29.2
200	2046	37. 5.0	-33.25.6
200	2128	37. 7.6	-33.20.5
200	2342	37.16.0	-33. 4.2
201	8	37.17.7	-33. 0.9
201	42	37.16.6	-32.56.2
201	116	37.15.0	-32.51.5
201	256	37.10.2	-32.37.3
201	326	37.12.1	-32.33.5

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
201	504	37.18.3	-32.21.4
201	600	37.22.3	-32.14.7
201	614	37.21.2	-32.13.3
201	648	37.17.6	-32.11.0
201	912	37. 2.3	-32. 1.6
201	958	36.57.3	-31.58.6
201	1018	36.57.3	-31.55.8
201	1048	36.57.4	-31.51.4
201	1100	36.57.6	-31.49.8
201	1142	36.59.8	-31.45.3
201	1206	37. 1.2	-31.42.5
201	1326	37. 6.8	-31.32.7
201	1548	37. 1.2	-31.12.9
201	1620	36.59.8	-31. 8.5
201	1652	36.58.5	-31. 4.1
201	1856	36.57.6	-30.46.3
201	2034	36.57.0	-30.33.0
201	2202	36.56.2	-30.21.3
201	2304	36.55.7	-30.12.7
202	334	36.52.9	-29.35.5
202	422	36.52.6	-29.28.8
202	650	36.52.0	-29. 7.5
202	852	36.51.0	-28.50.3
202	914	36.51.1	-28.48.3
202	1000	36.53.8	-28.43.1
202	1058	36.57.3	-28.35.9
202	1102	36.57.5	-28.35.4
202	1244	37. 3.7	-28.23.6
202	1712	37.20.2	-27.52.2
202	2110	37.34.7	-27.23.5
202	2150	37.37.3	-27.18.6
202	2344	37.37.0	-27. 2.0
203	130	37.36.3	-26.46.6
203	302	37.34.6	-26.33.1
203	524	37.29.6	-26.10.8
203	636	37.27.4	-25.59.7
203	648	37.28.9	-25.59.1
203	710	37.31.7	-25.59.0
203	742	37.34.9	-25.58.7
203	802	37.37.3	-25.58.4
203	836	37.40.2	-25.54.5
203	900	37.42.1	-25.51.9
203	928	37.43.2	-25.50.3
203	956	37.43.1	-25.49.9
203	1022	37.42.8	-25.49.5
203	1040	37.42.6	-25.49.5
203	1240	37.42.3	-25.49.0
203	1324	37.38.3	-25.57.3
203	1522	37.25.2	-26.25.0
203	1550	37.22.2	-26.31.3
203	1702	37.11.0	-26.43.3
203	1742	37. 4.6	-26.50.1
203	1804	37. 1.3	-26.54.2
203	1830	36.57.0	-26.58.5
203	1908	36.50.6	-27. 4.6
203	1932	36.47.4	-27. 0.1
203	1940	36.46.6	-26.58.5
203	2012	36.51.5	-26.53.6
203	2030	36.54.3	-26.50.7
203	2054	36.58.0	-26.47.1

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 1

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
203	2154	37. 7.7	-26.38.0
203	2226	37.13.2	-26.32.5
203	2256	37.18.0	-26.27.6
203	2324	37.15.8	-26.21.4
203	2356	37.10.7	-26.26.3
204	208	36.49.8	-26.47.1
204	228	36.46.5	-26.50.4
204	240	36.45.1	-26.48.5
204	256	36.43.3	-26.45.2
204	312	36.45.6	-26.42.7
204	442	37. 0.3	-26.29.2
204	602	37.13.2	-26.16.3
204	628	37.17.0	-26.11.5
204	754	37.28.8	-25.55.2
204	752	37.28.6	-25.55.5

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
207	1756	37.12.3	-27.16.4
207	1816	37.10.9	-27.20.6
207	1820	37.10.7	-27.21.3
207	1904	37. 8.6	-27.29.7
207	1942	37. 6.5	-27.37.5
207	2006	37. 5.2	-27.42.2
207	2046	37. 2.9	-27.49.8
207	2140	36.59.8	-28. 0.4
207	2158	36.58.7	-28. 4.3
207	2216	36.57.2	-28. 8.0
207	2240	36.55.4	-28.13.7
208	6	36.49.3	-28.34.3
208	22	36.48.1	-28.38.1
208	50	36.46.2	-28.44.9
208	314	36.45.5	-29.22.1
208	538	36.45.0	-29.59.1
208	548	36.45.0	-30. 1.7
208	606	36.45.0	-30. 6.7
208	618	36.45.0	-30.10.0
208	642	36.45.1	-30.16.3
208	738	36.45.2	-30.30.8
208	810	36.45.3	-30.38.8
208	926	36.45.6	-30.57.9
208	1010	36.45.6	-31. 8.7
208	1030	36.45.8	-31.13.5
208	1300	36.46.0	-31.50.9
208	1322	36.46.1	-31.56.3
208	1432	36.46.1	-32.13.3
208	1526	36.46.3	-32.26.4
208	1628	36.46.6	-32.41.7
208	1700	36.46.8	-32.49.5
208	1718	36.46.7	-32.54.0
208	1732	36.46.3	-32.57.4
208	1748	36.45.9	-33. 1.6
208	1832	36.45.0	-33.13.2
208	1846	36.44.8	-33.14.2
208	1858	36.44.7	-33.14.3
208	1926	36.44.5	-33.14.4
208	1952	36.48.7	-33.13.9
208	2014	36.52.5	-33.13.3
208	2024	36.54.1	-33.13.1
208	2046	36.54.1	-33.13.0
208	2100	36.54.1	-33.13.2
208	2116	36.51.9	-33.15.5
208	2146	36.46.7	-33.17.9
208	2222	36.40.4	-33.19.3
208	2236	36.39.1	-33.19.3
208	2248	36.38.7	-33.19.1
208	2258	36.38.2	-33.19.2
208	2350	36.29.1	-33.23.0
208	2358	36.27.7	-33.23.5
209	10	36.29.2	-33.23.3
209	110	36.38.5	-33.19.8
209	124	36.40.8	-33.19.8
209	206	36.48.0	-33.16.9
209	248	36.55.3	-33.13.8
209	326	37. 1.8	-33.11.5
209	336	37. 0.6	-33.11.7
209	408	36.55.0	-33.12.7
209	430	36.52.9	-33.13.0

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
209	450	36.53.2	-33.12.5
209	526	36.54.3	-33.12.7
209	606	36.54.2	-33.12.2
209	640	36.54.0	-33.12.1
209	654	36.54.2	-33.12.7
209	708	36.52.1	-33.13.8
209	754	36.44.1	-33.17.2
209	822	36.39.3	-33.19.3
209	834	36.38.1	-33.19.4
209	850	36.38.4	-33.19.4
209	856	36.38.3	-33.19.3
209	930	36.38.3	-33.19.3
209	954	36.38.3	-33.19.4
209	1716	36.33.8	-33.23.4
209	1810	36.32.9	-33.24.7
209	1820	36.33.0	-33.24.4
209	1830	36.33.5	-33.24.0
209	1934	36.42.9	-33.18.8
209	1946	36.43.0	-33.17.8
209	2000	36.43.2	-33.16.5
209	2010	36.43.1	-33.17.0
209	2030	36.43.1	-33.17.1
209	2040	36.43.2	-33.16.6
209	2052	36.43.2	-33.14.6
209	2122	36.43.5	-33.14.6
209	2138	36.43.6	-33.14.7
209	2214	36.43.6	-33.15.3
209	2302	36.43.7	-33.15.8
209	2336	36.43.9	-33.15.4
209	2354	36.41.5	-33.17.7
210	10	36.39.5	-33.20.0
210	22	36.39.1	-33.20.4
210	104	36.39.0	-33.20.9
210	128	36.39.0	-33.21.1
210	146	36.41.8	-33.19.8
210	206	36.44.8	-33.18.2
210	254	36.52.6	-33.14.7
210	346	37. 1.6	-33.10.7
210	356	37. 0.7	-33.10.9
210	430	36.55.4	-33.13.3
210	538	36.44.9	-33.18.3
210	604	36.40.7	-33.20.7
210	616	36.39.0	-33.21.7
210	628	36.38.0	-33.22.2
210	644	36.38.6	-33.20.8
210	700	36.39.0	-33.19.9
210	722	36.39.1	-33.20.1
210	752	36.38.3	-33.22.3
210	806	36.38.7	-33.21.6
210	848	36.38.7	-33.21.7
210	926	36.38.7	-33.21.6
210	1000	36.38.7	-33.20.9
210	1016	36.38.8	-33.20.5
210	1040	36.38.9	-33.20.4
210	1058	36.39.1	-33.20.0
210	1108	36.39.3	-33.19.8
210	1128	36.41.8	-33.17.9
210	1208	36.47.1	-33.13.5
210	1220	36.46.7	-33.15.5
210	1238	36.45.7	-33.19.0

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
210	1334	36.45.4	-33.17.6
210	1438	36.45.0	-33.16.2
210	1542	36.44.3	-33.15.4
210	1612	36.44.0	-33.16.7
210	1642	36.44.7	-33.17.3
210	1656	36.44.8	-33.17.6
210	1706	36.45.0	-33.17.6
210	1738	36.45.9	-33.17.6
210	1810	36.47.0	-33.17.9
210	1826	36.44.6	-33.19.2
210	1838	36.42.8	-33.20.1
210	1842	36.42.7	-33.19.9
210	1908	36.42.9	-33.19.9
210	1946	36.45.1	-33.13.3
210	2002	36.45.9	-33.10.7
210	2042	36.46.4	-33.11.1
210	2058	36.44.5	-33.13.2
210	2134	36.39.6	-33.18.3
210	2214	36.34.3	-33.24.4
210	2226	36.34.1	-33.24.9
210	2342	36.34.7	-33.23.7
211	10	36.34.9	-33.23.2
211	46	36.35.0	-33.22.0
211	140	36.35.0	-33.21.2
211	326	36.35.4	-33.18.6
211	332	36.35.4	-33.18.5
211	434	36.35.3	-33.16.9
211	458	36.37.4	-33.14.1
211	544	36.41.3	-33. 9.2
211	608	36.41.4	-33. 9.2
211	618	36.41.7	-33. 9.1
211	646	36.46.0	-33. 7.1
211	726	36.51.7	-33. 3.7
211	744	36.51.7	-33. 4.0
211	754	36.52.1	-33. 5.1
211	830	36.54.0	-33.12.4
211	858	36.54.6	-33.15.1
211	920	36.55.5	-33.17.4
211	950	36.56.8	-33.20.2
211	1004	36.56.7	-33.18.1
211	1024	36.53.5	-33.19.5
211	1114	36.45.7	-33.23.1
211	1134	36.45.2	-33.22.4
211	1202	36.45.0	-33.20.7
211	1250	36.44.4	-33.17.7
211	1404	36.42.6	-33.12.9
211	1508	36.41.1	-33. 8.5
211	1520	36.41.3	-33. 8.8
211	1600	36.43.4	-33. 8.1
211	1724	36.47.8	-33. 5.7
211	1826	36.51.1	-33. 4.1
211	1838	36.51.7	-33. 4.2
211	1922	36.52.5	-33. 7.5
211	1952	36.53.3	-33. 9.8
211	2046	36.53.5	-33.14.4
211	2120	36.53.5	-33.17.4
211	2152	36.53.3	-33.20.1
211	2202	36.53.2	-33.20.1
211	2228	36.52.3	-33.15.2
211	2308	36.52.0	-33. 7.3

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
211	2318	36.51.9	-33. 5.8
211	2340	36.51.9	-33. 5.8
212	2	36.52.1	-33. 5.7
212	22	36.52.0	-33. 4.9
212	34	36.51.7	-33. 4.8
212	54	36.48.1	-33. 5.9
212	128	36.41.8	-33. 8.1
212	142	36.40.5	-33. 9.0
212	202	36.40.8	-33.10.6
212	226	36.40.4	-33. 8.1
212	236	36.40.0	-33. 7.3
212	246	36.39.3	-33. 8.0
212	256	36.39.6	-33. 8.7
212	308	36.40.4	-33. 8.6
212	322	36.40.5	-33. 8.7
212	356	36.40.1	-33. 8.7
212	412	36.40.6	-33. 9.2
212	428	36.40.6	-33. 9.5
212	446	36.40.5	-33. 9.3
212	456	36.40.8	-33. 9.6
212	544	36.47.4	-33.14.6
212	556	36.49.1	-33.15.9
212	610	36.49.3	-33.16.1
212	628	36.49.3	-33.16.2
212	704	36.49.7	-33.15.3
212	748	36.50.0	-33.14.3
212	1006	36.51.1	-33.12.8
212	1034	36.51.6	-33.13.0
212	1150	36.52.4	-33.12.5
212	1320	36.52.6	-33.11.6
212	1356	36.52.9	-33.11.3
212	1532	36.54.6	-33.10.2
212	1552	36.57.0	-33.13.1
212	1606	36.58.9	-33.15.3
212	1618	36.58.5	-33.15.0
212	1804	37. 0.6	-33.14.6
212	1838	37. 1.1	-33.14.1
212	1922	37. 2.0	-33.13.5
212	1942	37. 2.4	-33.13.5
212	2018	37. 3.1	-33.13.4
212	2030	37. 3.5	-33.13.1
212	2040	37. 2.6	-33.12.9
212	2128	36.54.2	-33.12.8
212	2146	36.51.0	-33.13.3
212	2240	36.41.3	-33.15.7
212	2250	36.40.5	-33.16.0
212	2308	36.40.6	-33.15.7
212	2320	36.41.4	-33.16.9
213	100	36.51.1	-33.33.8
213	120	36.51.9	-33.35.3
213	140	36.51.9	-33.35.3
213	200	36.52.0	-33.35.3
213	234	36.52.5	-33.37.7
213	256	36.52.7	-33.40.5
213	306	36.52.1	-33.40.1
213	336	36.51.2	-33.35.6
213	346	36.50.4	-33.35.6
213	428	36.50.8	-33.41.4
213	438	36.49.9	-33.41.4
213	456	36.49.3	-33.39.0

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
213	518	36.48.5	-33.35.9
213	528	36.47.7	-33.35.9
213	544	36.47.6	-33.37.6
213	608	36.47.7	-33.40.3
213	626	36.48.0	-33.40.5
213	648	36.51.4	-33.39.6
213	722	36.56.7	-33.37.8
213	758	36.59.1	-33.37.0
213	810	36.58.7	-33.36.3
213	838	36.57.1	-33.37.4
213	856	36.56.2	-33.38.3
213	920	36.55.0	-33.38.9
213	1058	36.49.3	-33.41.0
213	1138	36.47.4	-33.40.7
213	1158	36.48.0	-33.40.4
213	1230	36.48.2	-33.40.5
213	1250	36.48.5	-33.40.2
213	1300	36.49.1	-33.39.8
213	1320	36.51.4	-33.37.4
213	1336	36.51.5	-33.37.2
213	1400	36.49.5	-33.33.4
213	1610	36.37.4	-33.11.5
213	1734	36.29.8	-32.56.8
213	1816	36.26.1	-32.49.7
213	1914	36.26.4	-32.38.6
213	2102	36.27.0	-32.18.3
213	2210	36.28.5	-32. 5.8
213	2256	36.28.9	-31.57.2
213	2316	36.29.2	-31.53.3
213	2342	36.29.7	-31.47.4
214	122	36.30.9	-31.24.3
214	234	36.30.9	-31. 7.6
214	344	36.30.8	-30.51.0
214	422	36.30.8	-30.42.1
214	510	36.31.1	-30.30.8
214	630	36.31.8	-30.11.3
214	802	36.33.4	-29.49.8
214	814	36.33.5	-29.46.9
214	842	36.34.1	-29.40.4
214	854	36.34.2	-29.38.2
214	952	36.34.8	-29.24.4
214	1110	36.35.7	-29. 5.5
214	1218	36.36.0	-28.49.2
214	1232	36.36.0	-28.45.9
214	1436	36.32.8	-28.16.6
214	1512	36.32.4	-28.12.3
214	1528	36.32.6	-28.11.6
214	1552	36.33.6	-28.10.8
214	1704	36.36.3	-28. 8.9
214	1756	36.38.0	-28. 7.6
214	1826	36.37.9	-28. 0.8
214	1834	36.37.8	-27.58.8
214	2006	36.36.1	-27.36.7
214	2142	36.33.7	-27.13.5
214	2228	36.32.4	-27. 2.2
215	58	36.27.1	-26.25.8
215	150	36.25.8	-26.13.1
215	248	36.24.6	-25.58.9
215	302	36.24.4	-25.55.8
215	422	36.23.2	-25.39.3

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
215	446	36.22.7	-25.33.4
215	502	36.22.2	-25.29.1
215	522	36.25.5	-25.26.2
215	556	36.31.5	-25.21.6
215	618	36.35.6	-25.19.2
215	658	36.42.8	-25.15.2
215	734	36.48.1	-25.12.3
215	758	36.51.7	-25.10.2
215	824	36.53.5	-25. 9.7
215	906	36.53.2	-25. 9.7
215	936	36.53.0	-25.10.0
215	1022	36.53.0	-25.11.3
215	1124	36.53.0	-25.12.8
215	1200	36.52.2	-25.15.5
215	1212	36.51.5	-25.16.0
215	1308	36.46.5	-25.13.9
215	1404	36.41.4	-25.11.4
215	1428	36.40.9	-25. 8.2
215	1638	36.38.2	-24.49.5
215	1802	36.36.5	-24.37.1
215	1852	36.35.6	-24.29.7
215	2104	36.33.4	-24.10.8
215	2306	36.31.2	-23.52.9
216	18	36.31.7	-23.42.2
216	142	36.32.1	-23.29.6
216	508	36.34.4	-22.57.9
216	608	36.35.6	-22.48.5
216	822	36.38.6	-22.28.1
216	834	36.38.9	-22.26.4
216	900	36.39.8	-22.22.8
216	1018	36.42.4	-22.11.8
216	1130	36.44.4	-22. 1.9
216	1248	36.46.6	-21.51.0
216	1528	36.51.4	-21.27.9
216	1622	36.53.1	-21.20.0
216	1654	36.54.0	-21.15.3
216	1758	36.55.8	-21. 6.7
216	1832	36.57.0	-21. 1.7
216	1912	36.58.6	-20.56.0
216	2002	37. 0.6	-20.49.2
216	2200	37. 5.3	-20.32.8
216	2220	37. 5.8	-20.30.0
216	2358	37. 5.7	-20.16.3
217	424	37. 5.0	-19.39.2
217	530	37. 5.2	-19.30.1
217	640	37. 5.8	-19.20.5
217	806	37. 6.2	-19. 8.3
217	1236	37. 6.3	-18.30.7
217	1328	37. 6.3	-18.23.6
217	1354	37. 6.3	-18.19.7
217	1514	37. 6.2	-18. 7.7
217	1526	37. 6.2	-18. 6.2
217	1606	37. 6.3	-18. 0.9
217	1652	37. 6.4	-17.54.1
217	1736	37. 6.6	-17.47.6
217	1828	37. 6.6	-17.39.6
217	1908	37. 6.4	-17.33.5
217	1922	37. 6.4	-17.31.4
217	1934	37. 7.6	-17.30.7
217	1948	37. 9.2	-17.30.7

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY NO	TIME H M	LATITUDE DEG MIN	LONGITUDE DEG MIN
217	2032	37.14.4	-17.30.3
217	2058	37.17.4	-17.30.3
217	2112	37.17.6	-17.32.2
217	2132	37.17.5	-17.35.3
217	2226	37.17.4	-17.43.3
218	26	37.17.2	-18. 1.4
218	436	37.16.8	-18.39.0
218	546	37.17.3	-18.49.6
218	702	37.18.2	-19. 1.3
218	718	37.20.0	-19. 1.7
218	830	37.28.7	-19. 2.1
218	844	37.29.0	-19. 0.2
218	930	37.29.2	-18.53.7
218	1248	37.30.0	-18.26.0
218	1424	37.29.8	-18.12.6
218	1450	37.29.7	-18. 8.7
218	1454	37.29.7	-18. 8.1
218	1538	37.29.5	-18. 1.8
218	1612	37.27.7	-17.57.5
218	1810	37.21.6	-17.42.7
218	1900	37.19.1	-17.36.0
218	1928	37.17.8	-17.32.3
218	2120	37.17.5	-17.16.4
218	2250	37.10.0	-17. 6.8
218	2350	37.10.0	-16.58.1
219	18	37.10.0	-16.54.2
219	210	37. 9.4	-16.38.3
219	254	37. 9.3	-16.31.8
219	536	37.10.3	-16. 8.7
219	622	37.10.3	-16. 1.9
219	814	37. 9.8	-15.45.9
219	1040	37. 9.0	-15.24.8
219	1156	37. 8.2	-15.13.9
219	1522	37. 1.9	-14.45.5
219	1536	37. 1.4	-14.43.8
219	1546	37. 1.1	-14.42.6
219	1552	37. 1.0	-14.41.7
219	1656	37. 0.2	-14.30.9
219	1702	37. 0.0	-14.30.1
219	1714	36.58.7	-14.29.1
219	1728	36.56.8	-14.30.0
219	1746	36.54.9	-14.31.4
219	1816	36.52.5	-14.32.9
219	1840	36.51.8	-14.33.7
219	2100	36.38.8	-14.45.1
219	2212	36.31.8	-14.51.2
220	50	36.16.2	-15. 5.0
220	232	36. 6.4	-15.13.4
220	440	35.54.1	-15.24.0
220	704	35.40.3	-15.34.5
220	810	35.33.9	-15.39.5
220	826	35.32.4	-15.40.5
220	844	35.30.8	-15.41.6
220	1238	35. 7.9	-15.59.5
220	1358	34.59.8	-16. 4.8
220	1606	34.44.5	-16. 4.5
220	1622	34.42.6	-16. 4.6
220	1718	34.35.7	-16. 4.8
220	1752	34.31.5	-16. 5.0
220	1828	34.27.2	-16. 5.4

NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
220	1908	34.22.4	-16. 5.9
220	1940	34.18.6	-16. 6.3
220	2014	34.14.5	-16. 6.5
220	2314	33.53.4	-16. 7.0
221	236	33.30.0	-16. 7.2
221	428	33.16.7	-16. 7.3
221	554	33. 6.9	-16. 8.0
221	640	33. 1.5	-16. 7.4
221	652	33. 0.2	-16. 7.8
221	712	32.59.9	-16.10.5
221	732	32.59.8	-16.13.0
221	806	32.59.7	-16.16.6
221	828	32.59.4	-16.17.5
221	852	32.58.8	-16.18.2
221	912	32.59.4	-16.19.5
221	928	32.59.9	-16.20.6
221	944	32.59.4	-16.21.1
221	952	32.59.2	-16.21.2
221	1106	32.57.5	-16.21.7
221	1140	32.59.7	-16.28.0
221	1150	33. 0.3	-16.29.8
221	1210	33. 3.5	-16.30.0
221	1300	33.13.4	-16.30.2
221	1322	33.16.8	-16.27.3
221	1338	33.19.1	-16.25.3
221	1346	33.20.0	-16.24.4
221	1442	33.27.0	-16.17.7
221	1702	33.48.7	-15.56.5
221	1750	33.56.1	-15.49.0
221	1840	34. 3.9	-15.41.8
221	1846	34. 4.9	-15.41.0
221	2006	34.17.2	-15.30.6
221	2100	34.25.7	-15.23.5
221	2140	34.32.0	-15.18.5
221	2148	34.33.2	-15.17.5
221	2220	34.38.2	-15.13.4
221	2352	34.52.8	-15. 1.2
222	134	35. 8.4	-14.47.5
222	220	35.15.4	-14.40.9
222	312	35.23.3	-14.33.4
222	522	35.42.7	-14.15.0
222	612	35.49.7	-14. 8.2
222	652	35.55.7	-14. 2.4
222	718	35.59.7	-13.58.8
222	828	36. 4.4	-13.56.1
222	910	36. 9.9	-13.59.6
222	1144	36.32.4	-14.13.4
222	1242	36.41.3	-14.17.1
222	1258	36.43.7	-14.18.1
222	1324	36.47.5	-14.19.9
222	1356	36.51.4	-14.24.3
222	1512	37. 2.6	-14.30.0
222	1608	37.10.9	-14.34.2
222	1710	37.19.9	-14.38.8
222	1800	37.26.7	-14.42.4
222	1856	37.34.5	-14.46.1
222	1926	37.38.7	-14.48.2
222	1940	37.40.9	-14.49.5
222	1958	37.42.3	-14.46.5
222	2050	37.45.6	-14.37.1

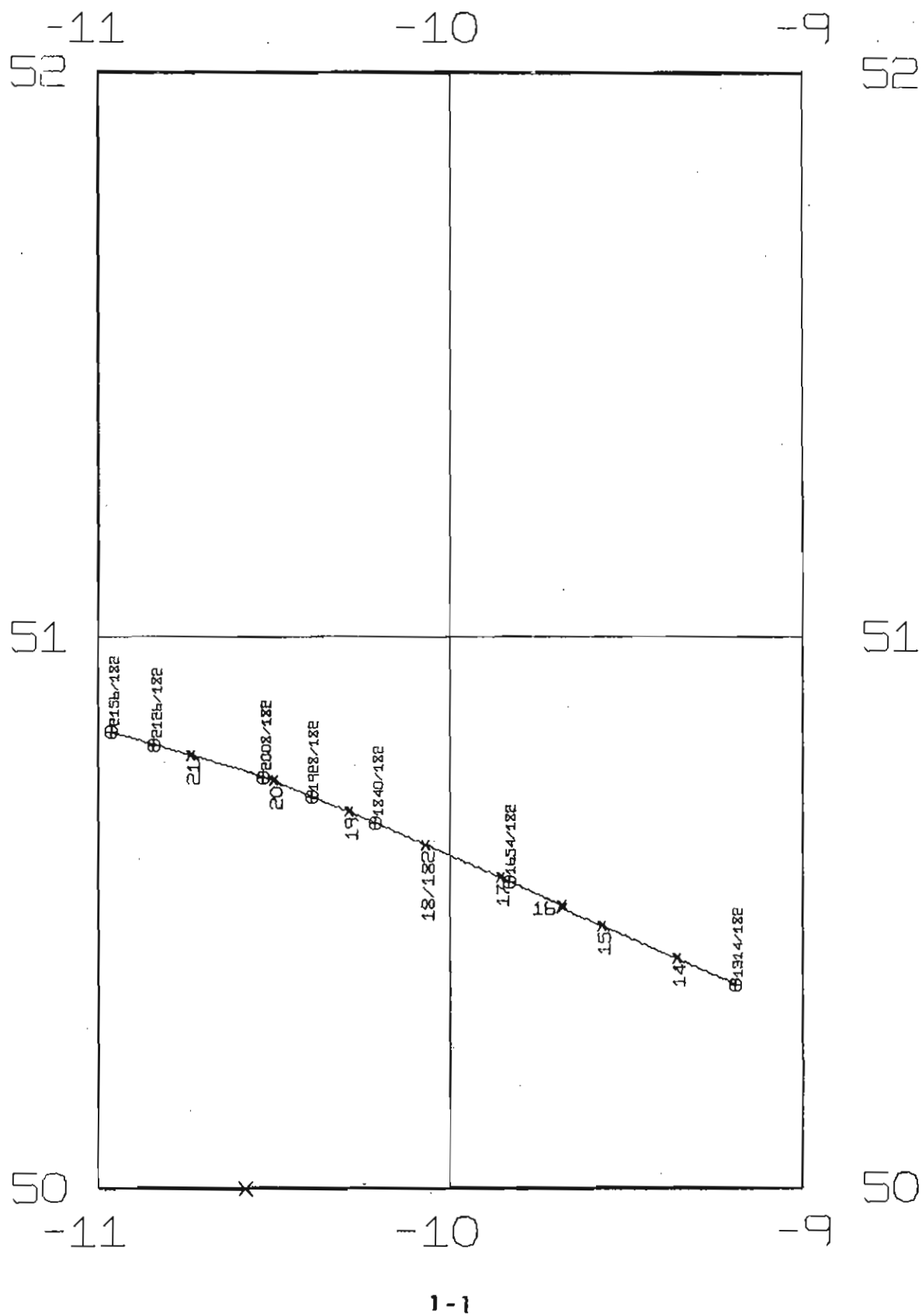
NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

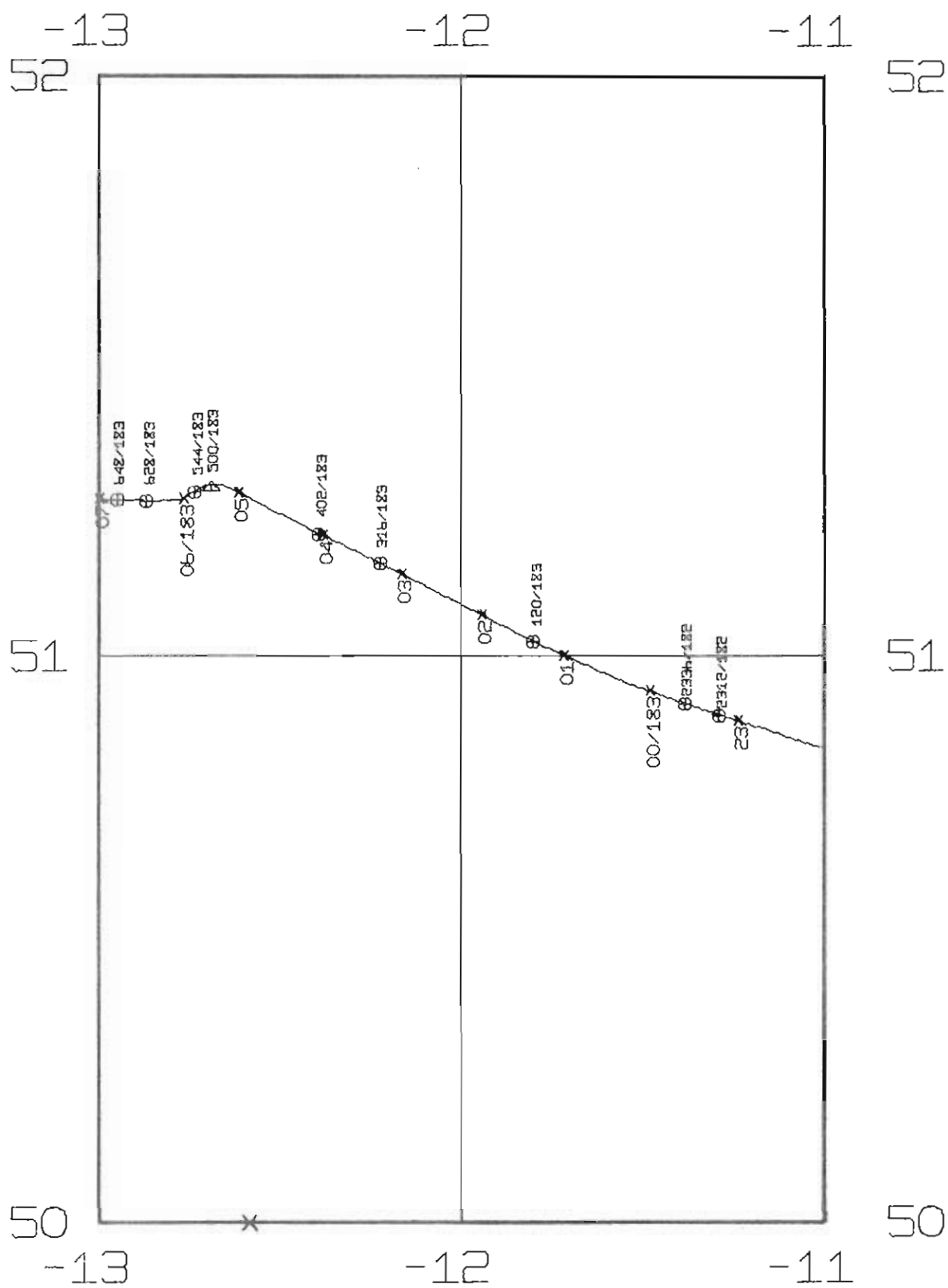
DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
222	2232	37.51.9	-14.19.4
222	2304	37.53.8	-14.14.0
223	16	37.58.7	-14.1.5
223	112	38.2.1	-13.51.8
223	126	38.2.3	-13.49.1
223	344	38.10.8	-13.24.3
223	418	38.12.8	-13.18.3
223	428	38.13.4	-13.16.8
223	446	38.14.3	-13.13.6
223	550	38.17.9	-13.2.3
223	632	38.20.2	-12.55.0
223	656	38.21.5	-12.50.5
223	748	38.24.6	-12.40.9
223	810	38.27.8	-12.41.5
223	848	38.33.2	-12.42.7
223	940	38.39.9	-12.44.4
223	1150	38.56.7	-12.48.4
223	1224	39.1.3	-12.49.3
223	1326	39.9.3	-12.50.5
223	1542	39.26.9	-12.53.5
223	1710	39.37.6	-12.55.7
223	1736	39.40.7	-12.55.9
223	1856	39.50.3	-12.57.9
223	1954	39.57.6	-12.59.5
223	2008	39.59.1	-12.59.7
223	2052	40.2.5	-13.0.4
223	2138	40.9.1	-12.55.8
224	20	40.32.5	-12.39.3
224	244	40.54.0	-12.24.9
224	456	41.14.0	-12.12.2
224	532	41.19.5	-12.8.8
224	556	41.23.2	-12.6.3
224	710	41.34.3	-11.58.8
224	938	41.56.6	-11.43.0
224	1056	42.8.8	-11.34.1
224	1112	42.11.3	-11.32.6
224	1304	42.28.9	-11.21.6
224	1444	42.44.4	-11.11.5
224	1638	43.2.2	-10.59.5
224	1928	43.28.6	-10.40.3
224	2148	43.50.4	-10.24.7
224	2318	44.4.7	-10.14.4
225	126	44.25.1	-9.59.1
225	330	44.45.1	-9.45.1
225	440	44.56.4	-9.37.4
225	514	45.1.6	-9.33.7
225	622	45.11.9	-9.25.9
225	710	45.19.4	-9.20.7
225	838	45.33.2	-9.11.1
225	1030	45.51.2	-8.58.1
225	1314	46.18.1	-8.40.3
225	1340	46.22.5	-8.37.2
225	1410	46.28.0	-8.32.8
225	1528	46.41.8	-8.19.9
225	1554	46.46.3	-8.15.6
225	1716	47.1.5	-8.4.1
225	1730	47.4.1	-8.2.2
225	1814	47.7.3	-7.50.2
225	1844	47.13.1	-7.46.8
225	2044	47.36.7	-7.36.3

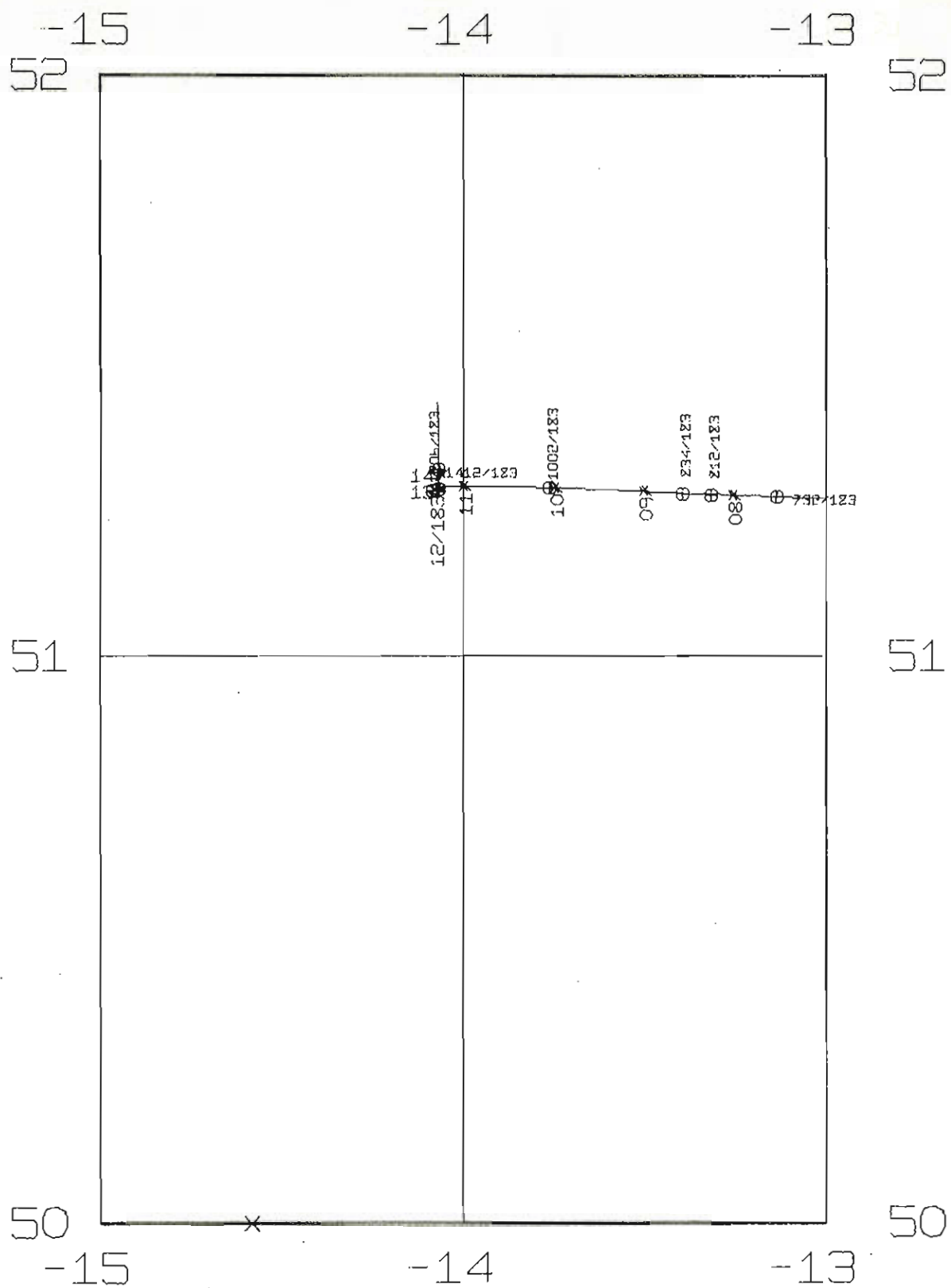
NAVIGATION POINTS FOR DISCOVERY CRUISE 54 LEG 2

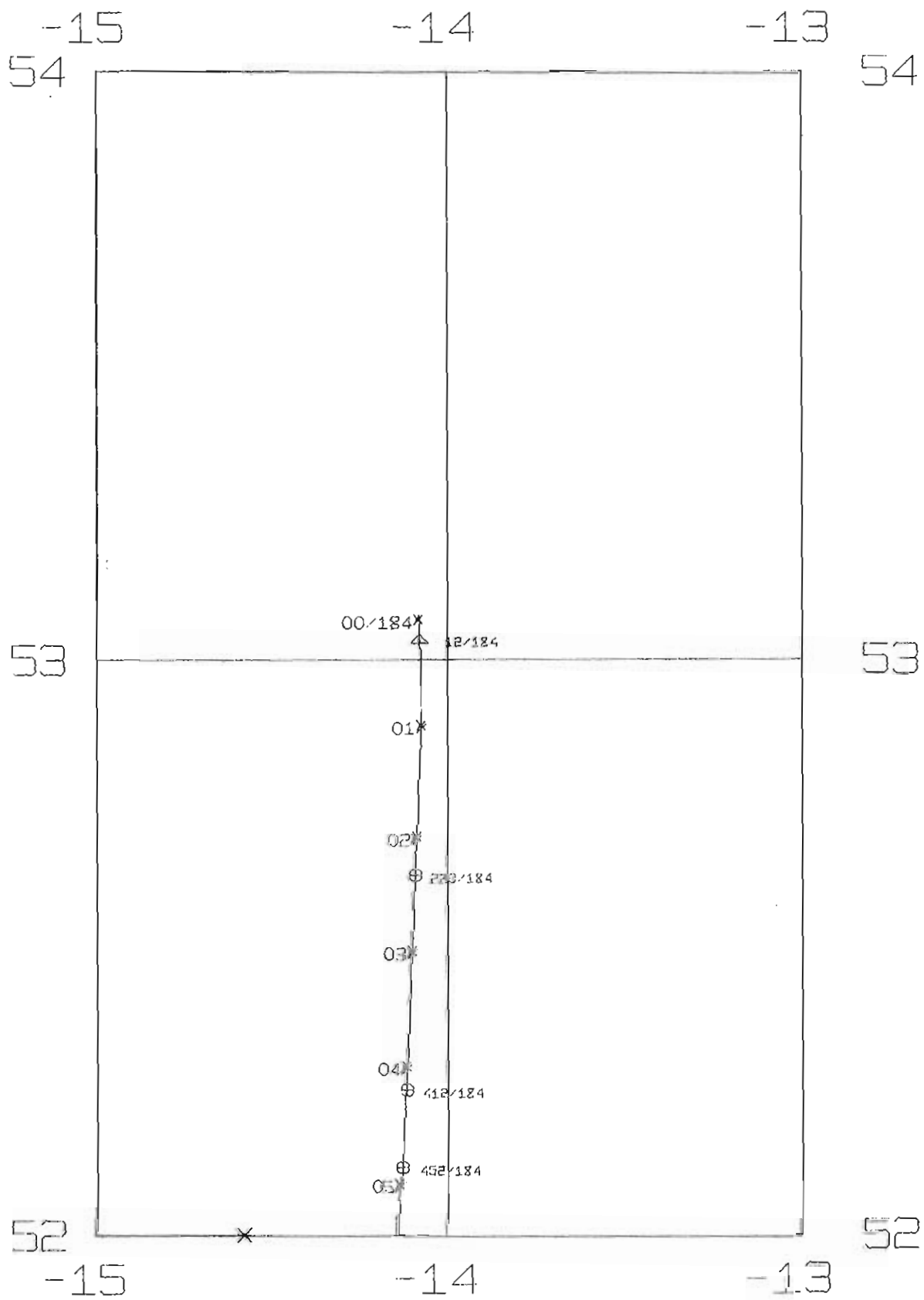
DAY	TIME	LATITUDE	LONGITUDE
NO	H M	DEG MIN	DEG MIN
225	2150	47.49.5	-7.31.0
225	2238	47.58.5	-7.24.9
225	2302	48. 2.9	-7.22.2
225	2348	48.10.5	-7.17.2
226	40	48.19.0	-7.10.5
226	148	48.30.5	-7. 0.4
226	158	48.31.4	-6.58.0
226	246	48.39.7	-6.51.1
226	322	48.46.2	-6.46.5
226	350	48.51.0	-6.42.6
226	354	48.51.3	-6.41.6
226	410	48.52.6	-6.37.5
226	500	48.58.8	-6.31.8
226	634	49.13.2	-6.19.1
226	712	49.18.9	-6.14.1
226	728	49.21.1	-6.12.0
226	802	49.26.1	-6. 8.0
226	1016	49.46.0	-5.52.0
226	1042	49.50.2	-5.52.4
226	1056	49.52.2	-5.52.6
226	1102	49.53.2	-5.52.6
226	1100	49.52.9	-5.52.6

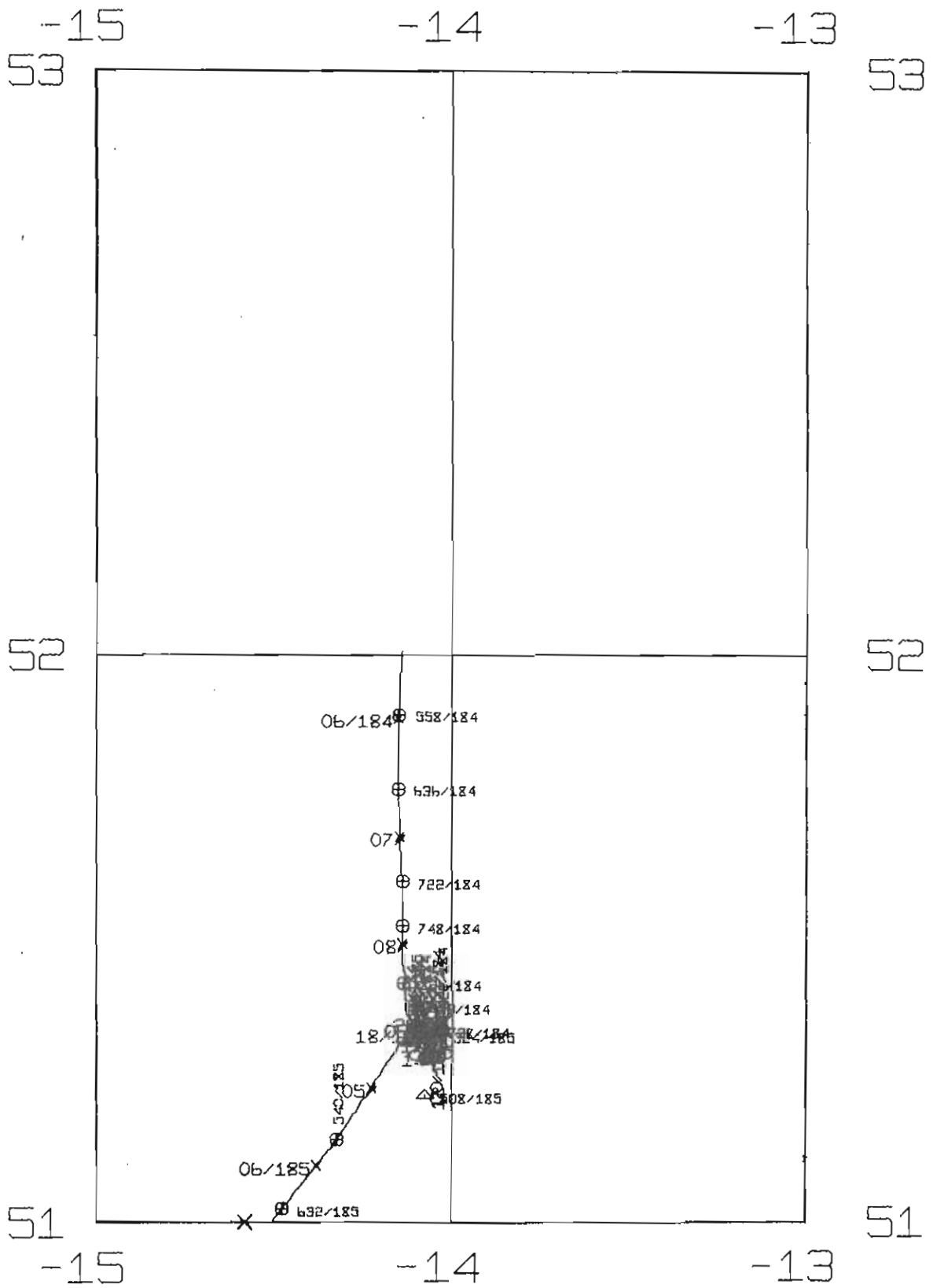
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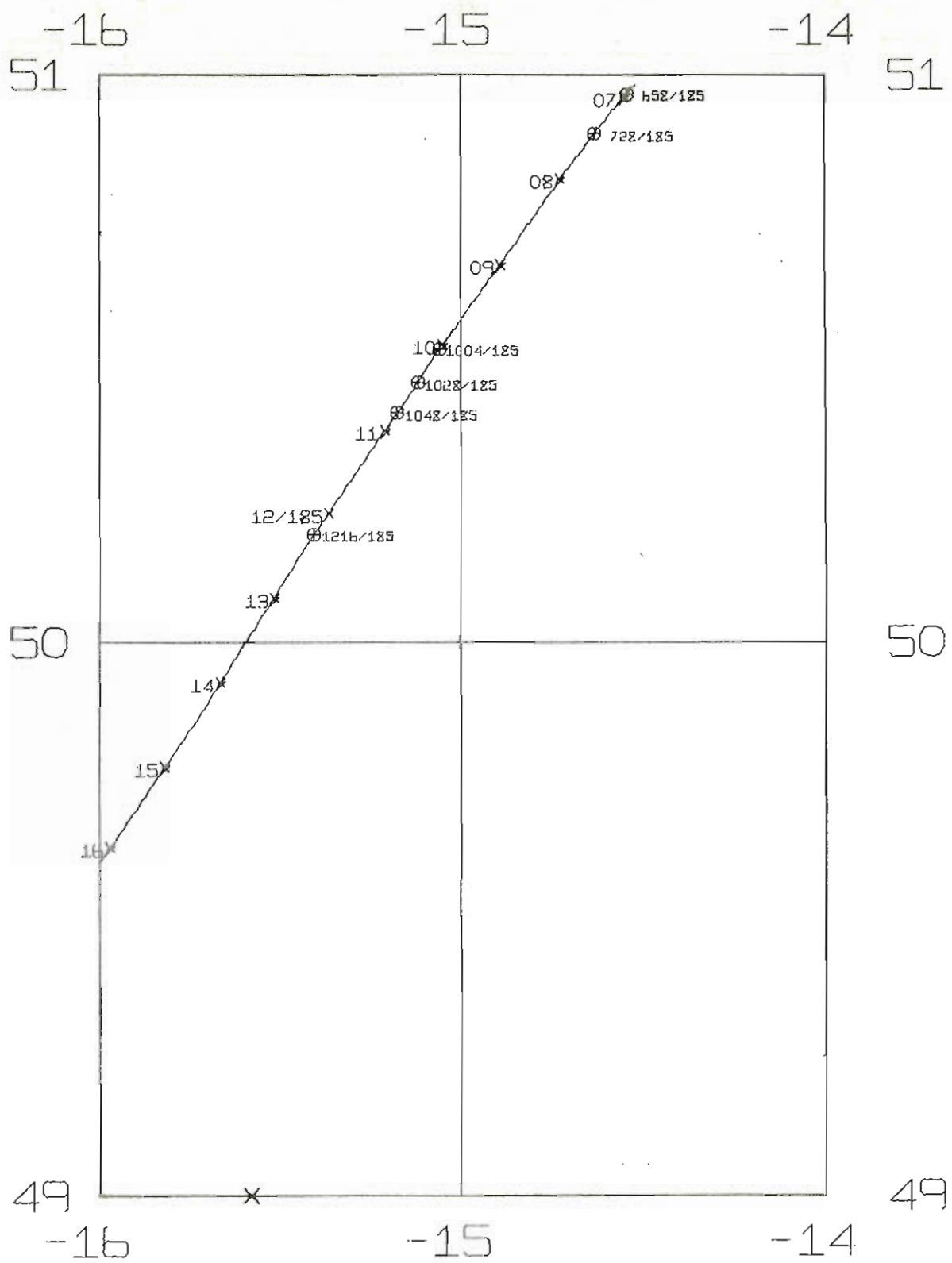


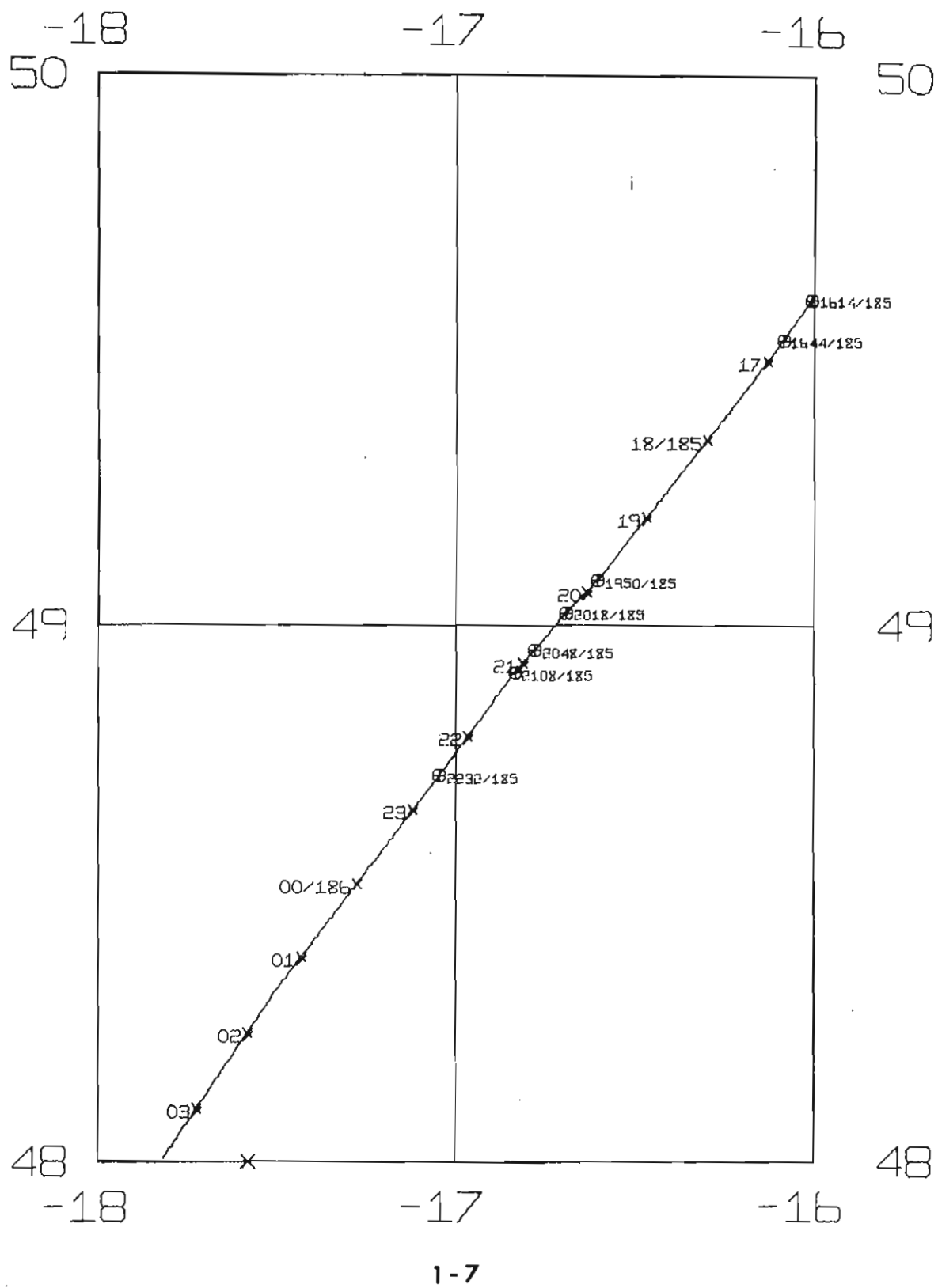


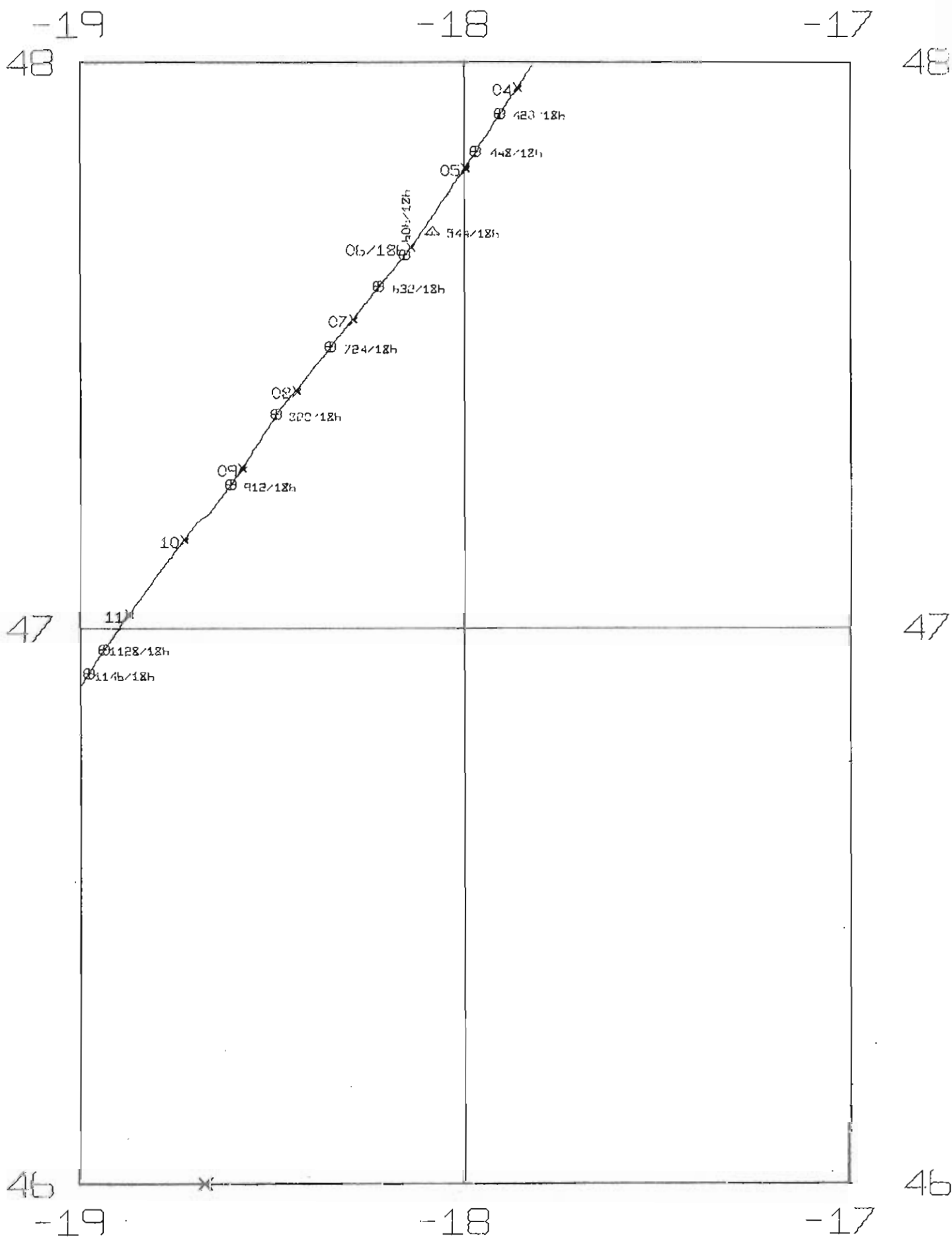












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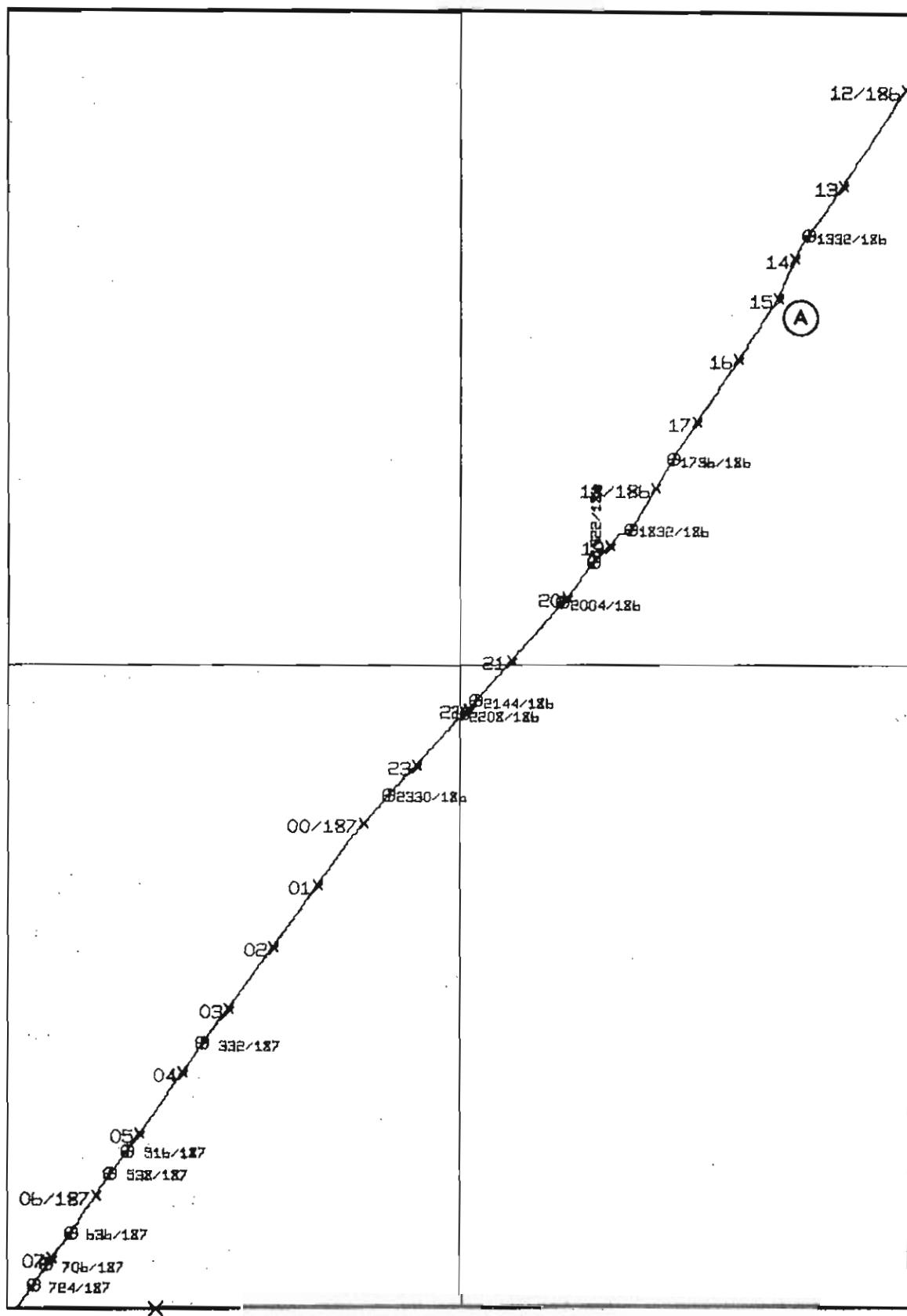
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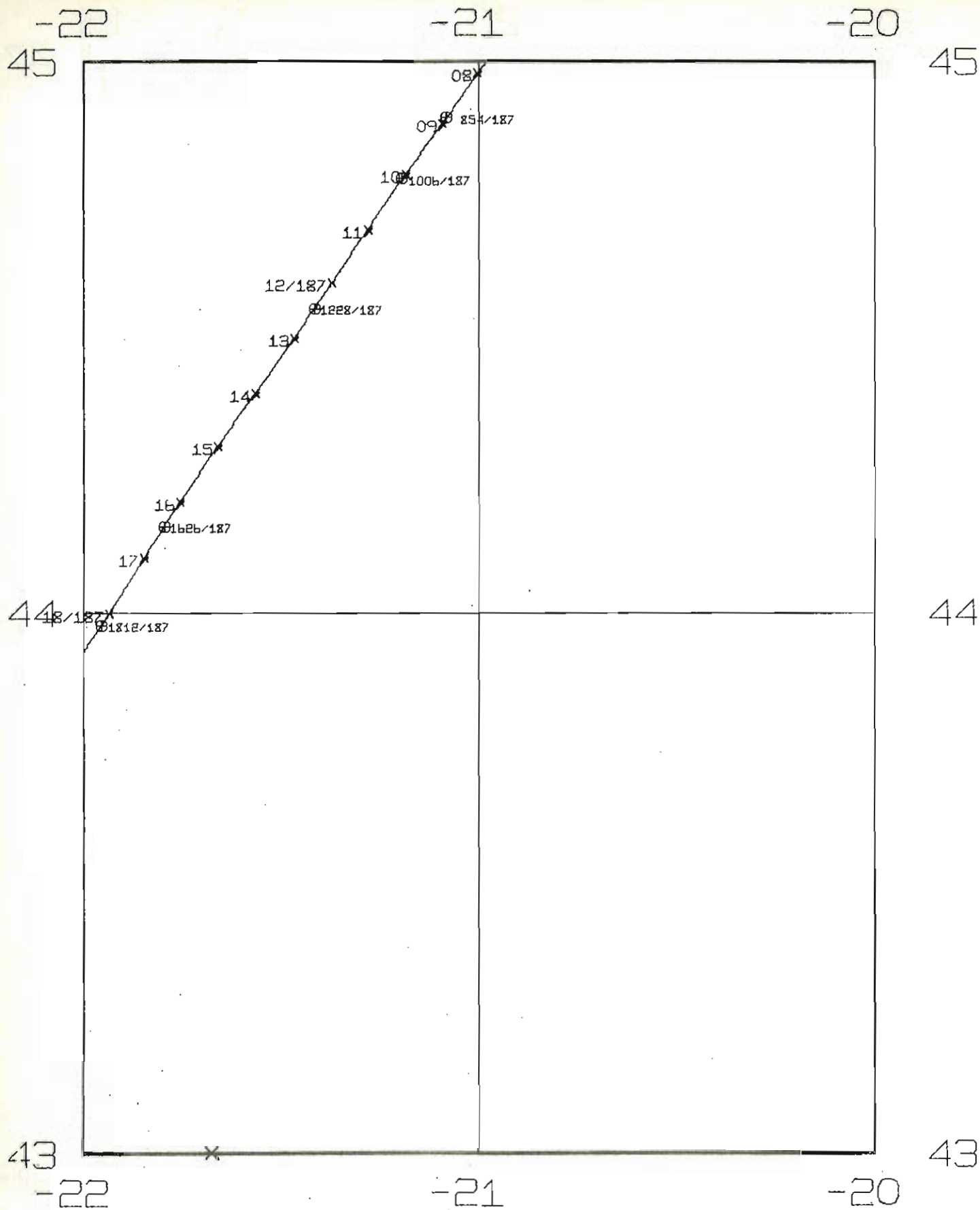
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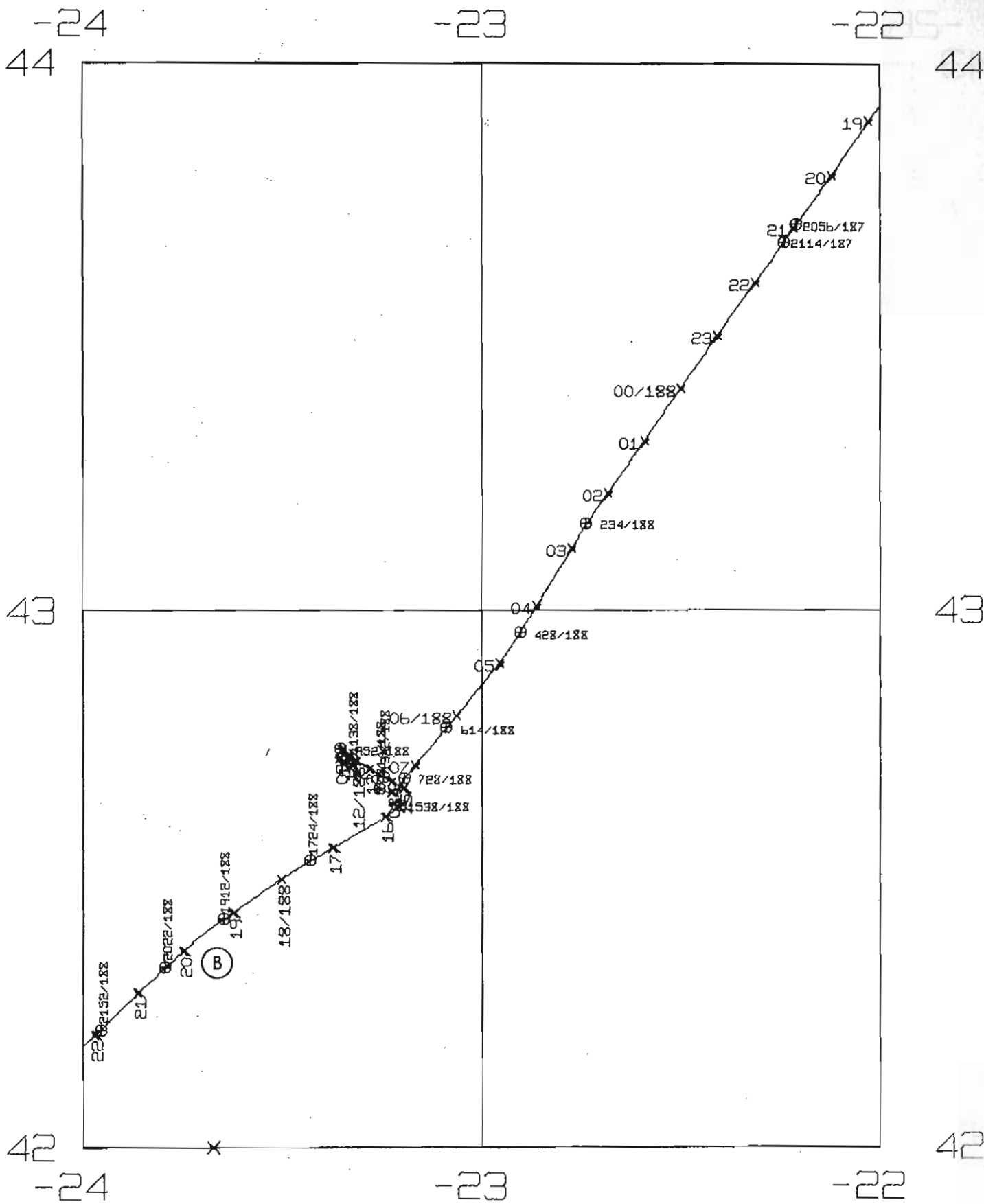
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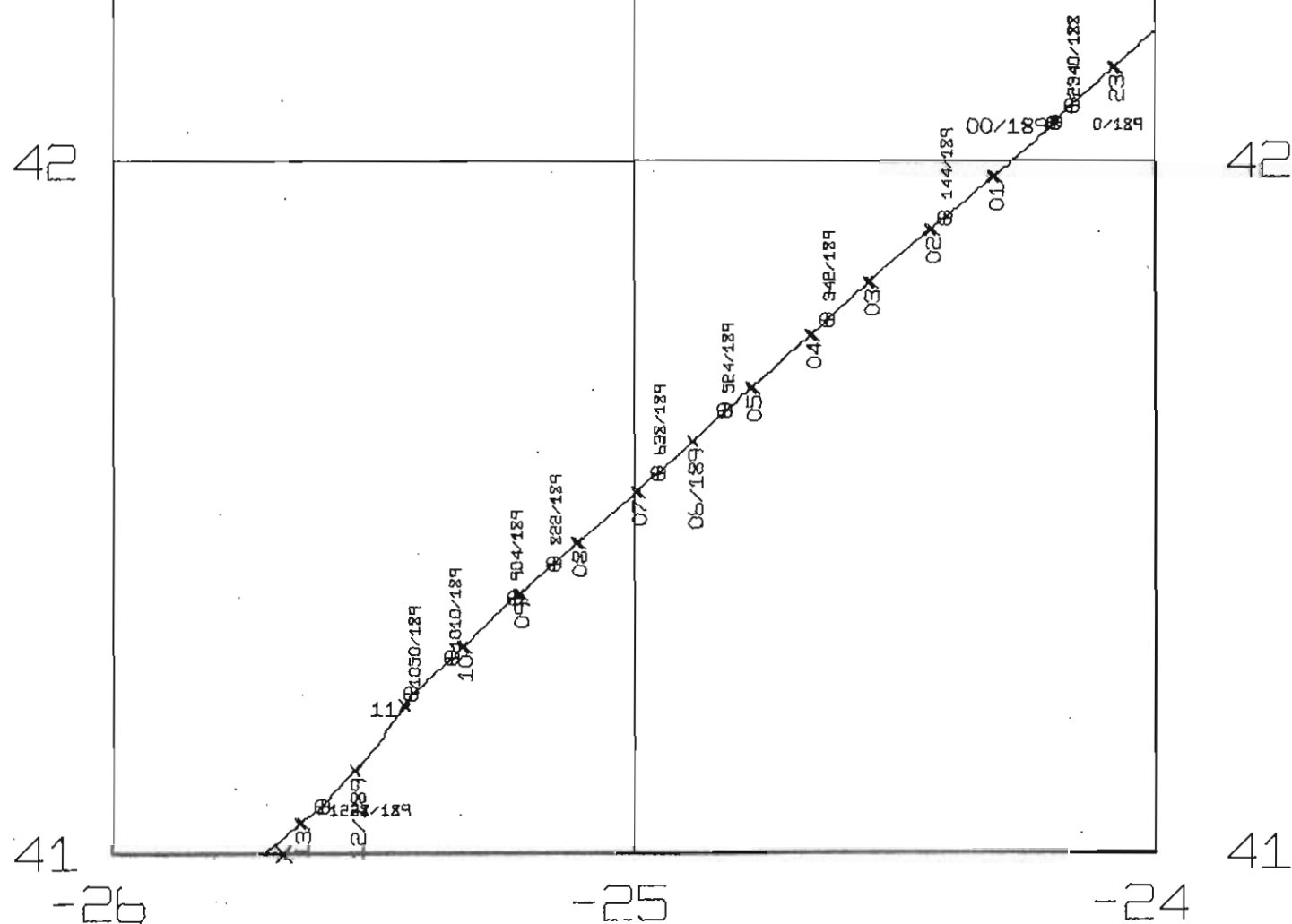
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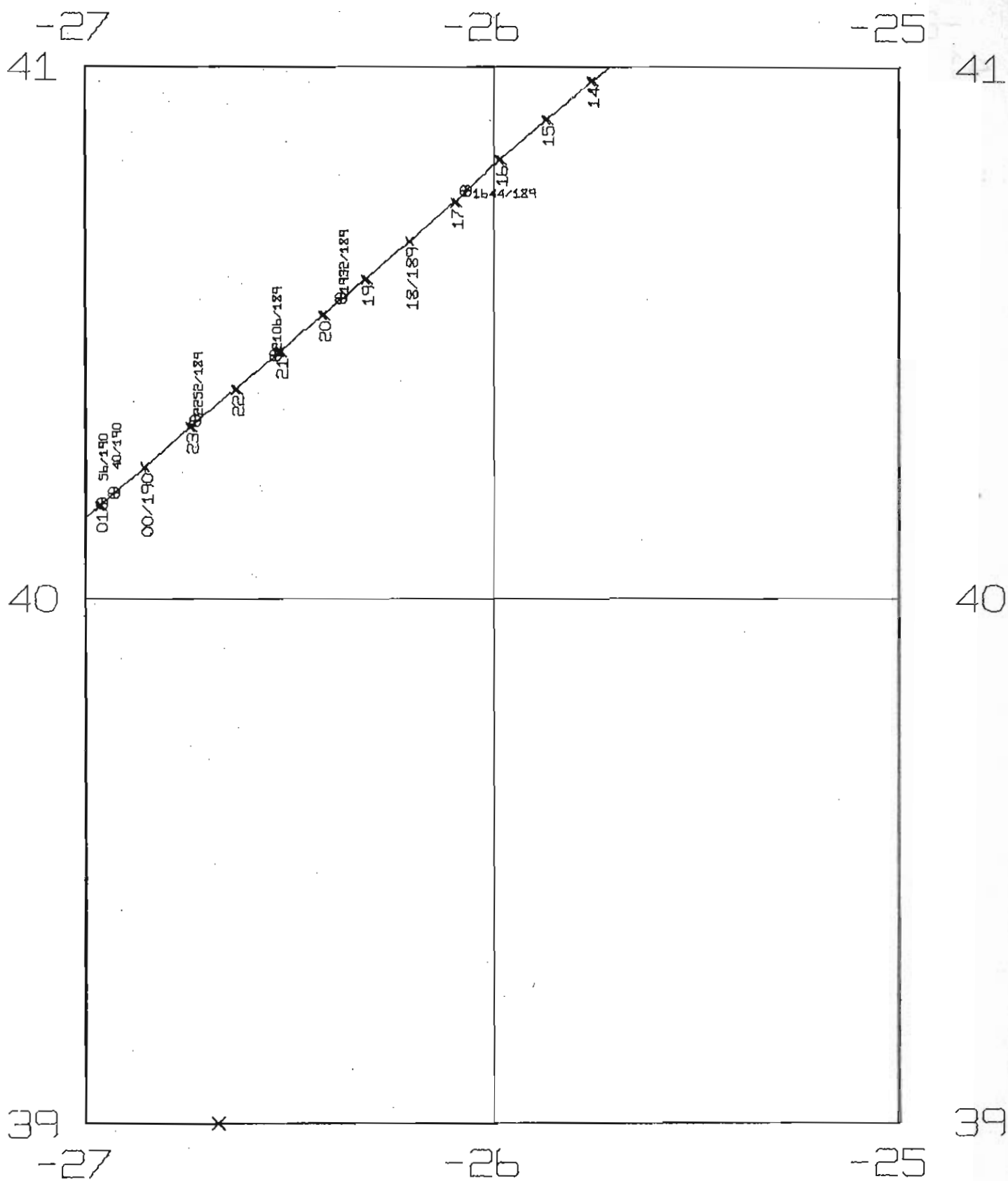


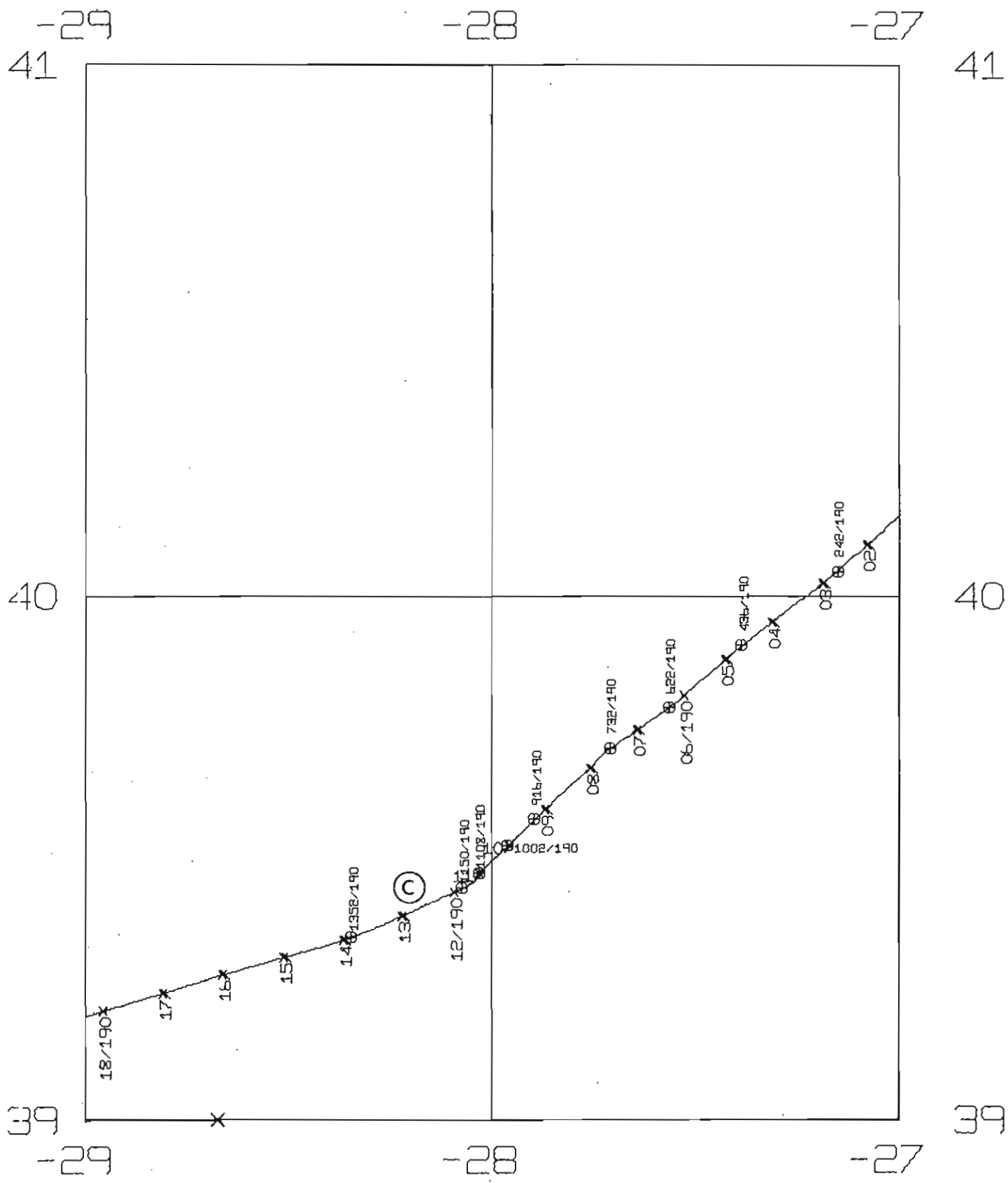


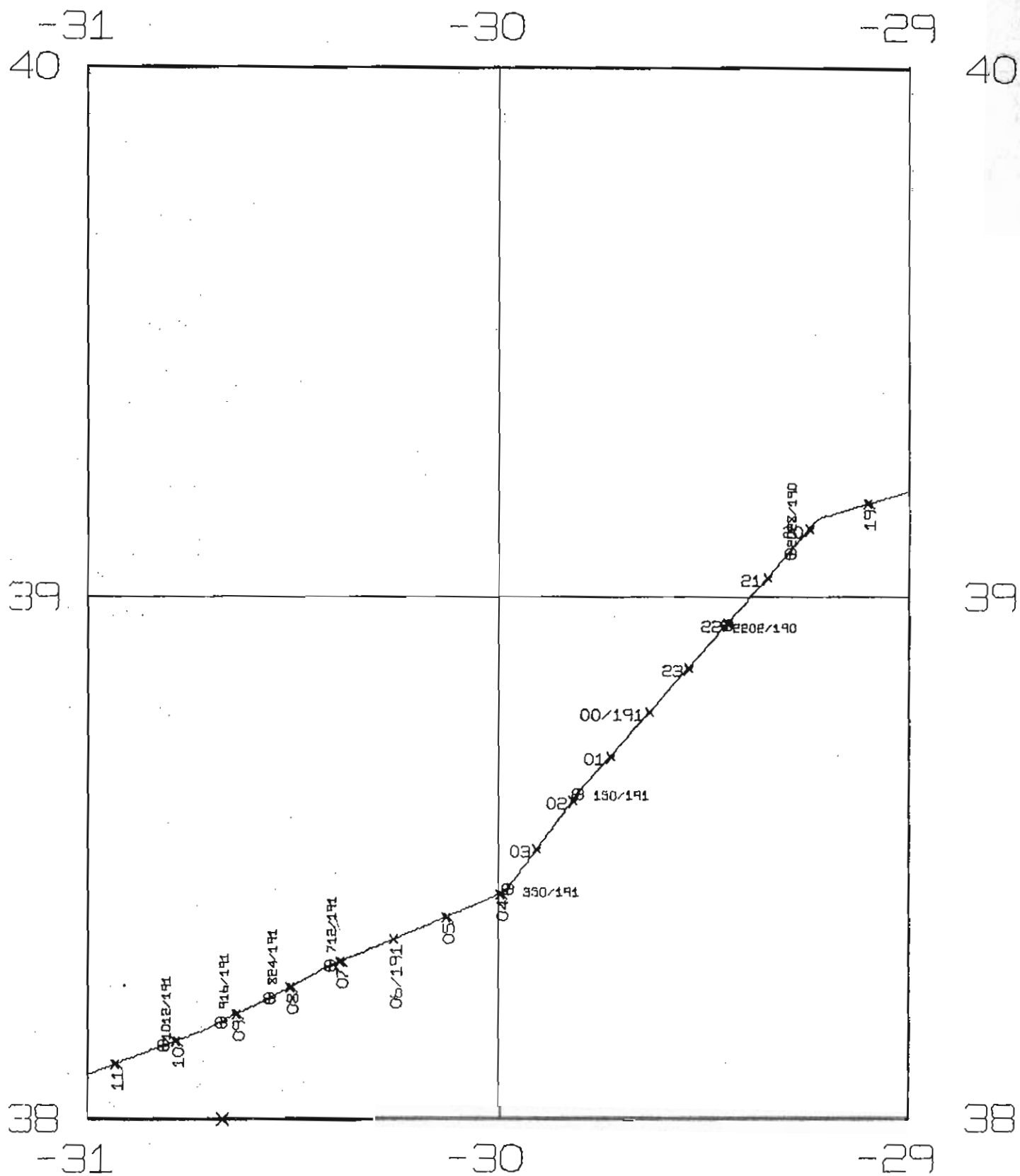


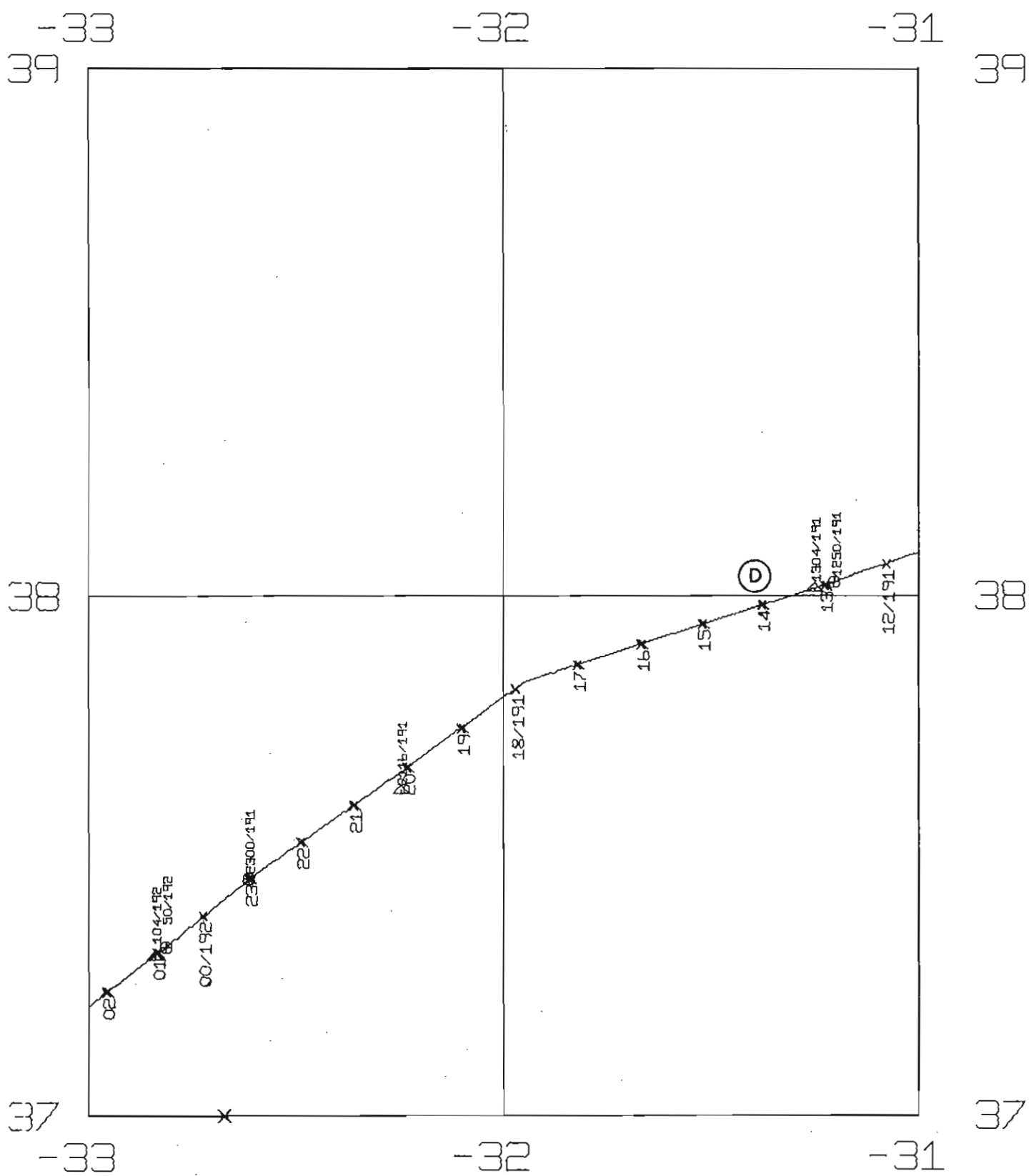
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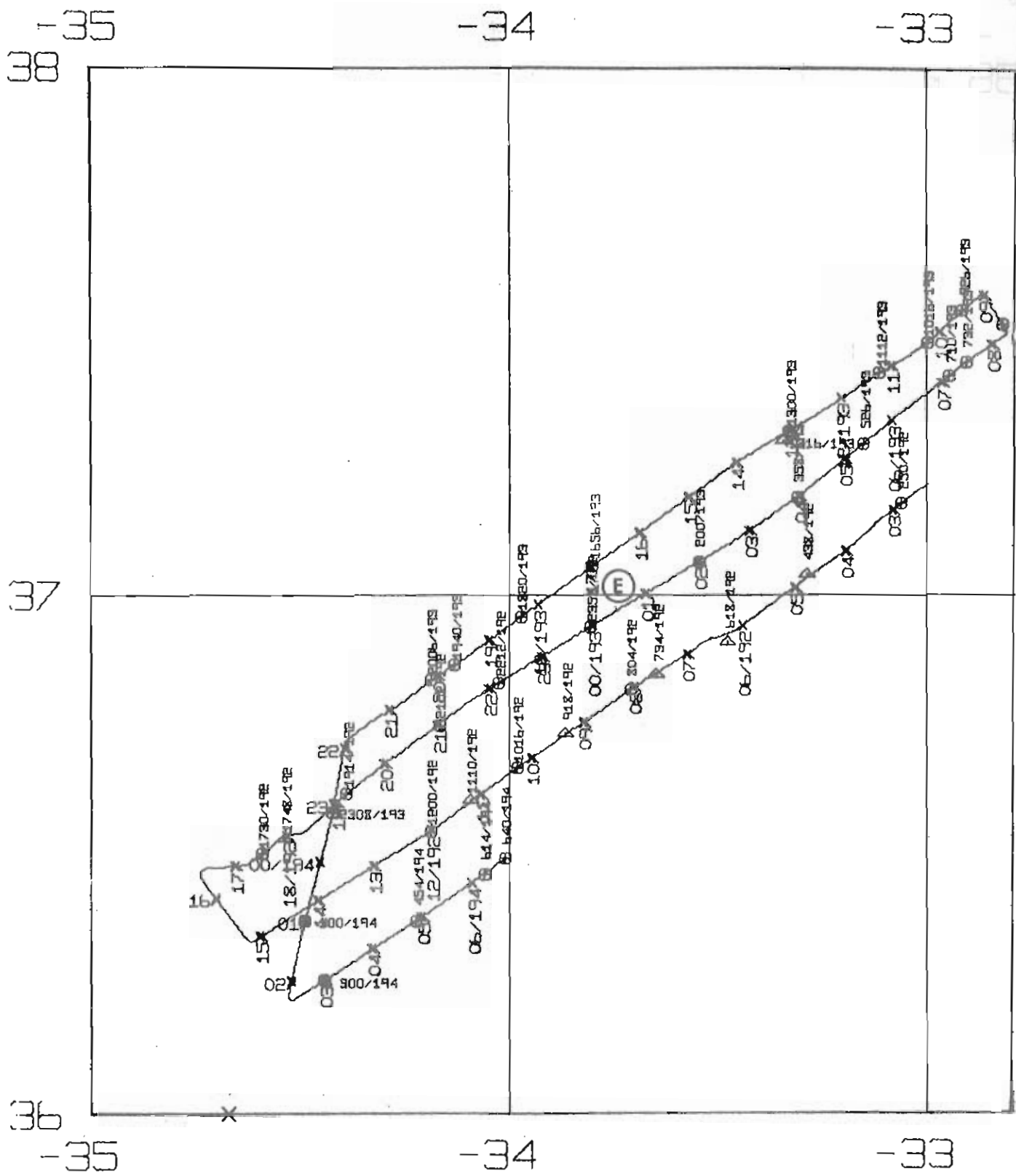


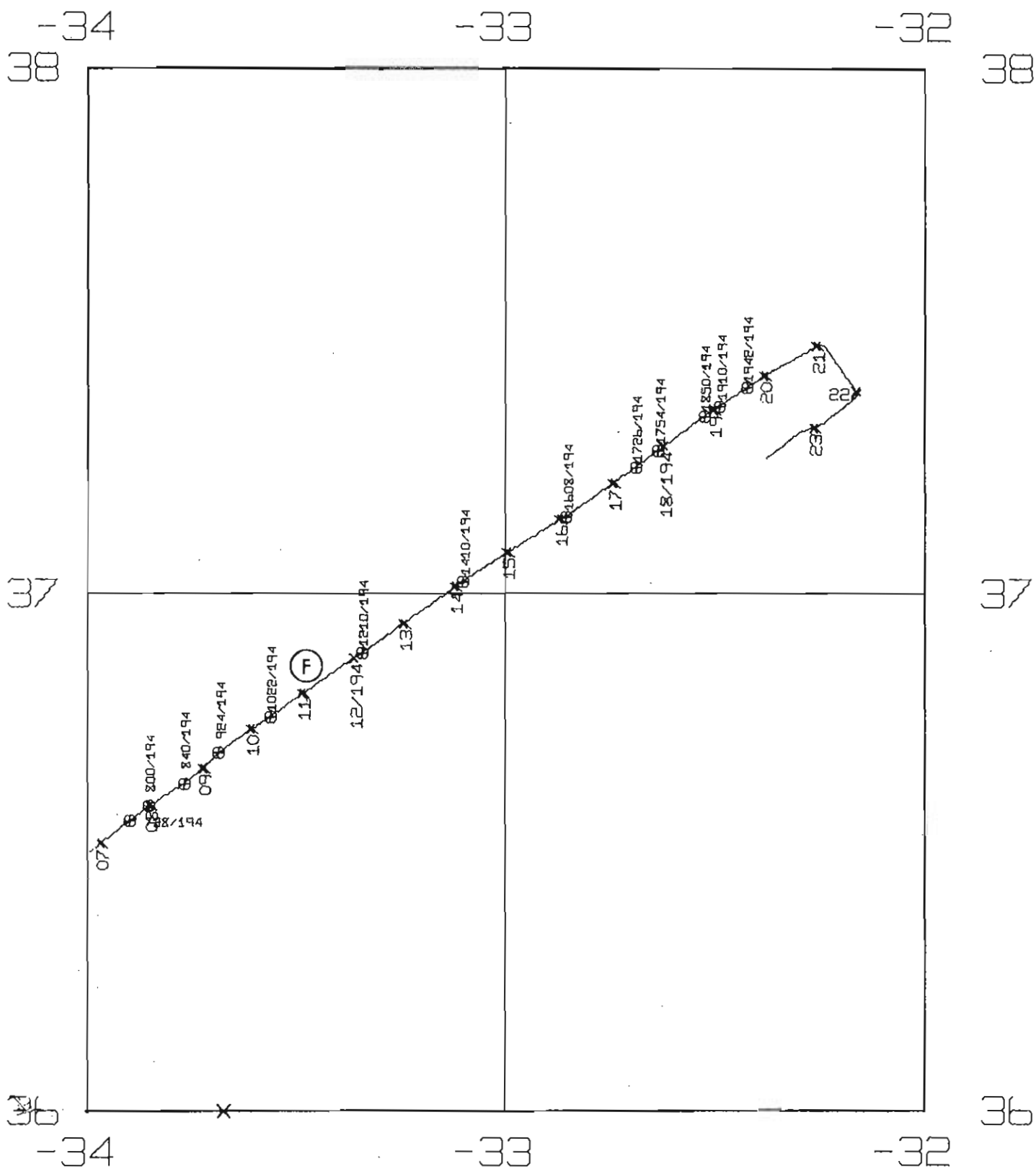


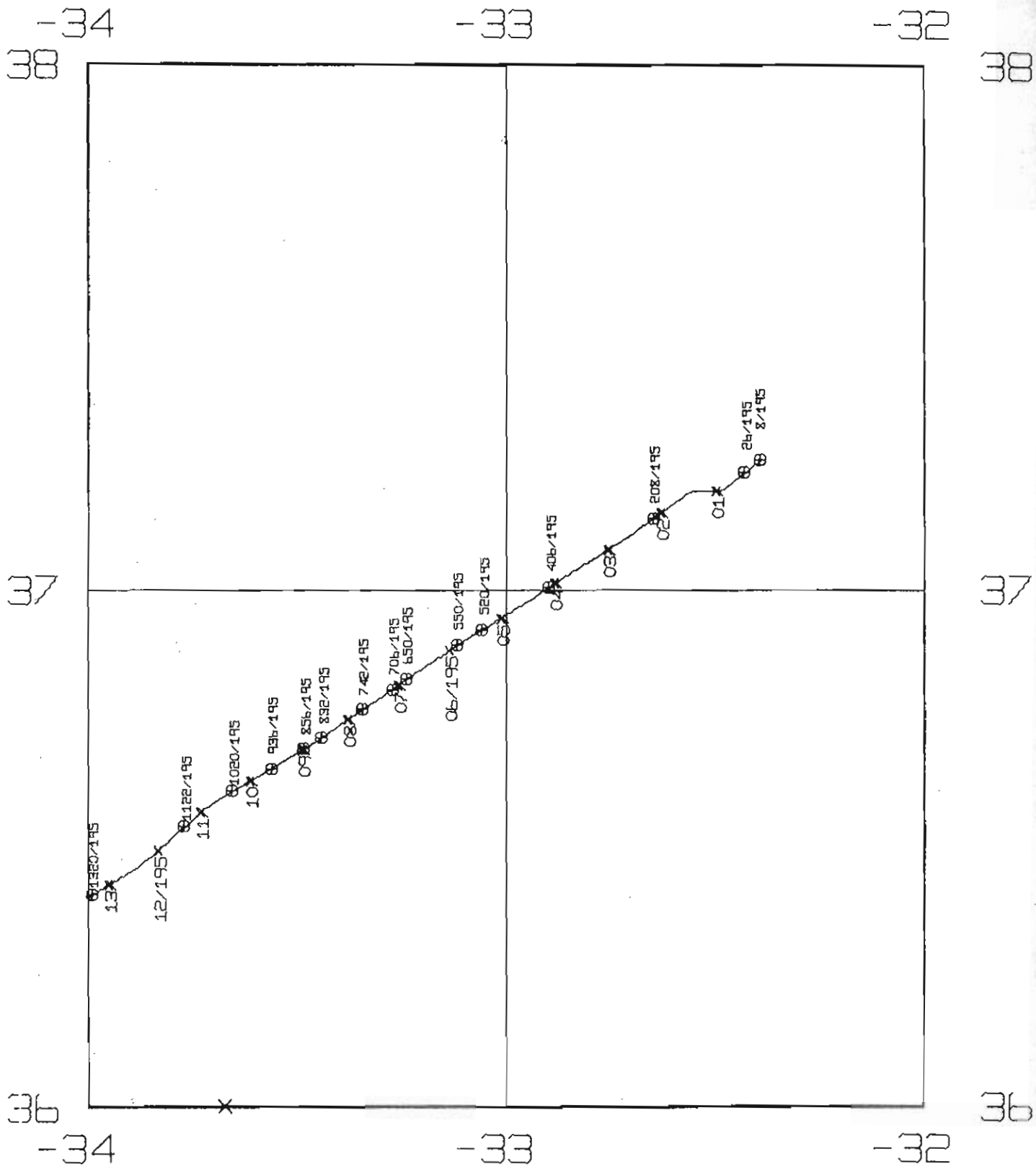


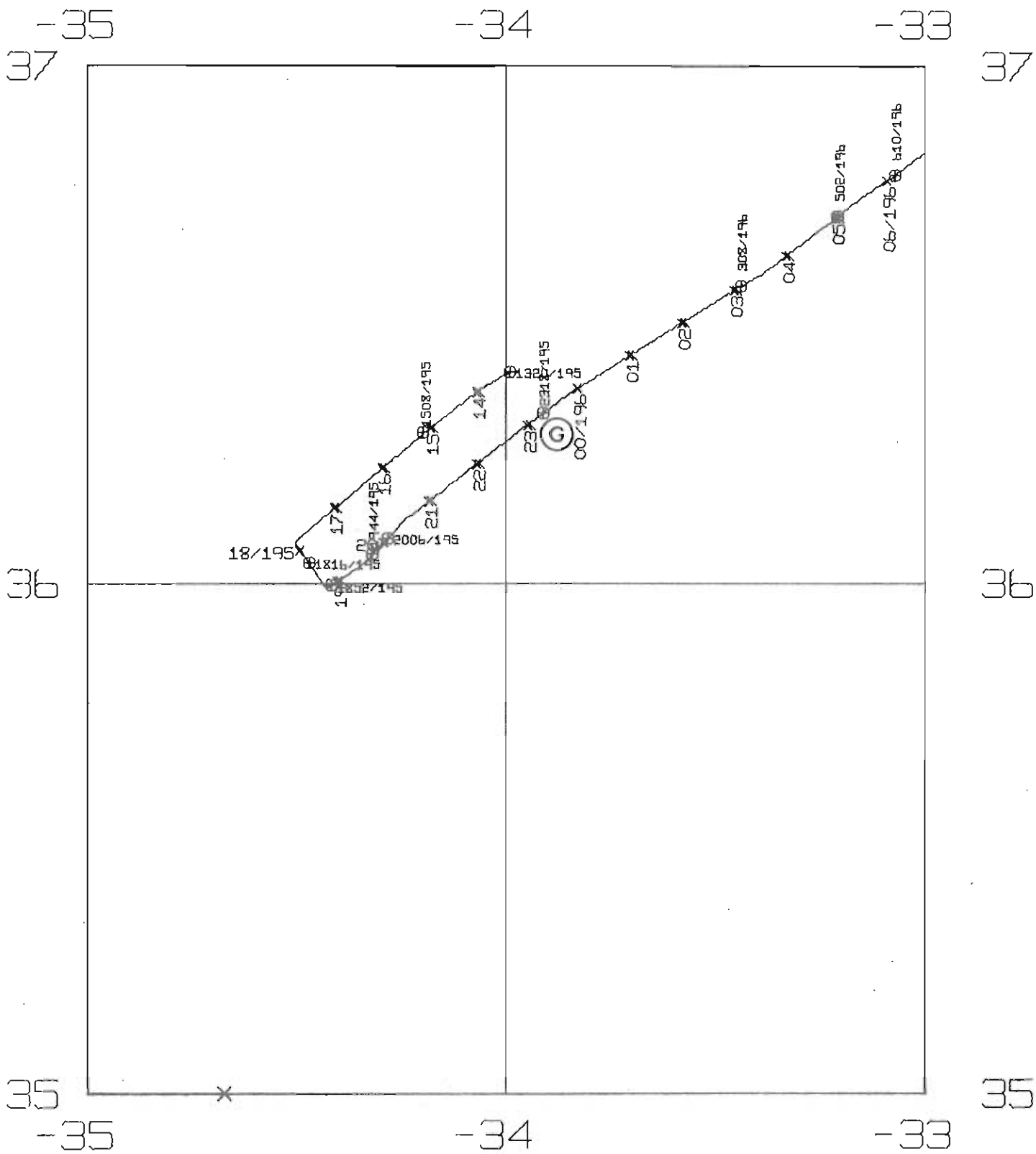


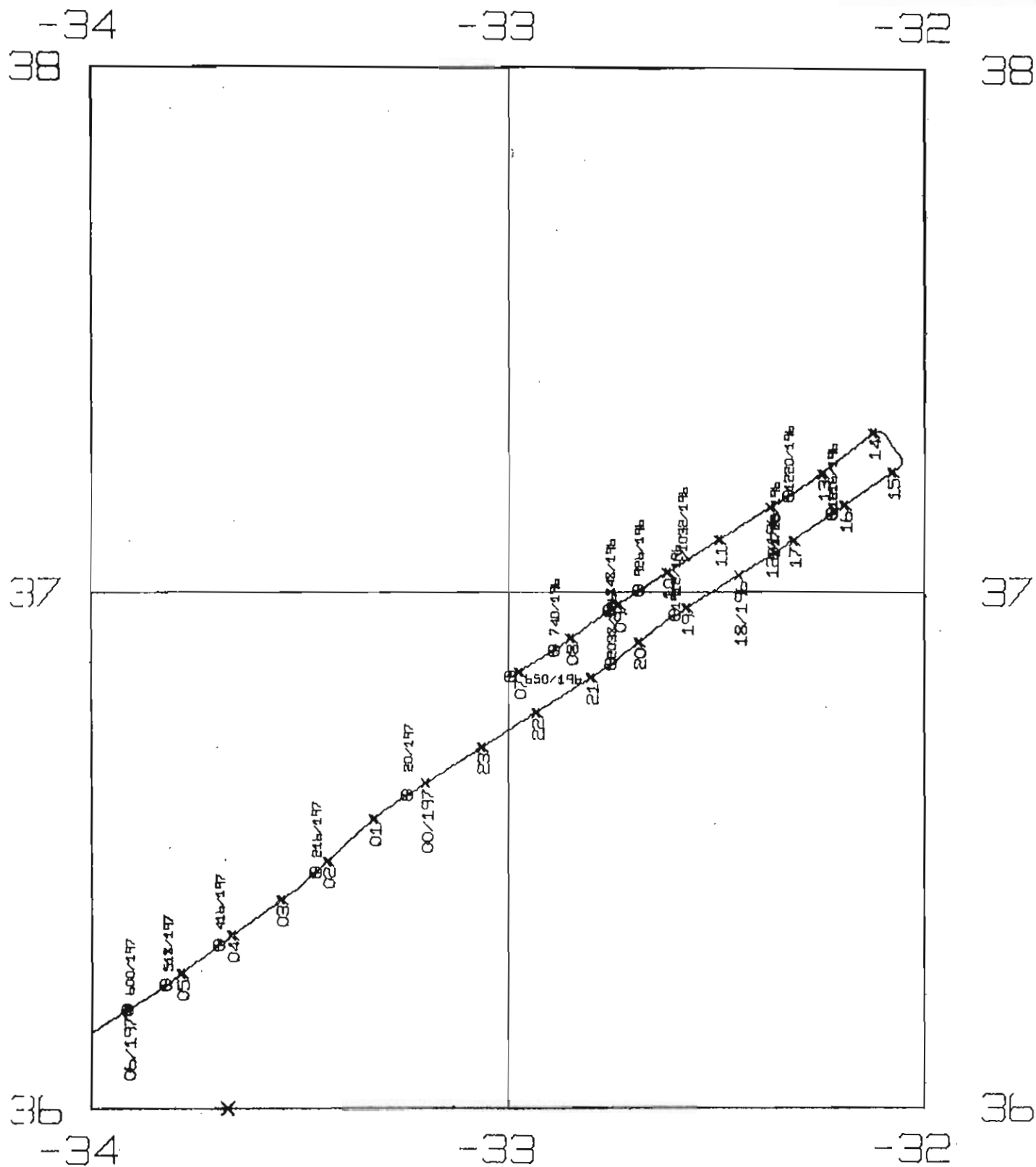


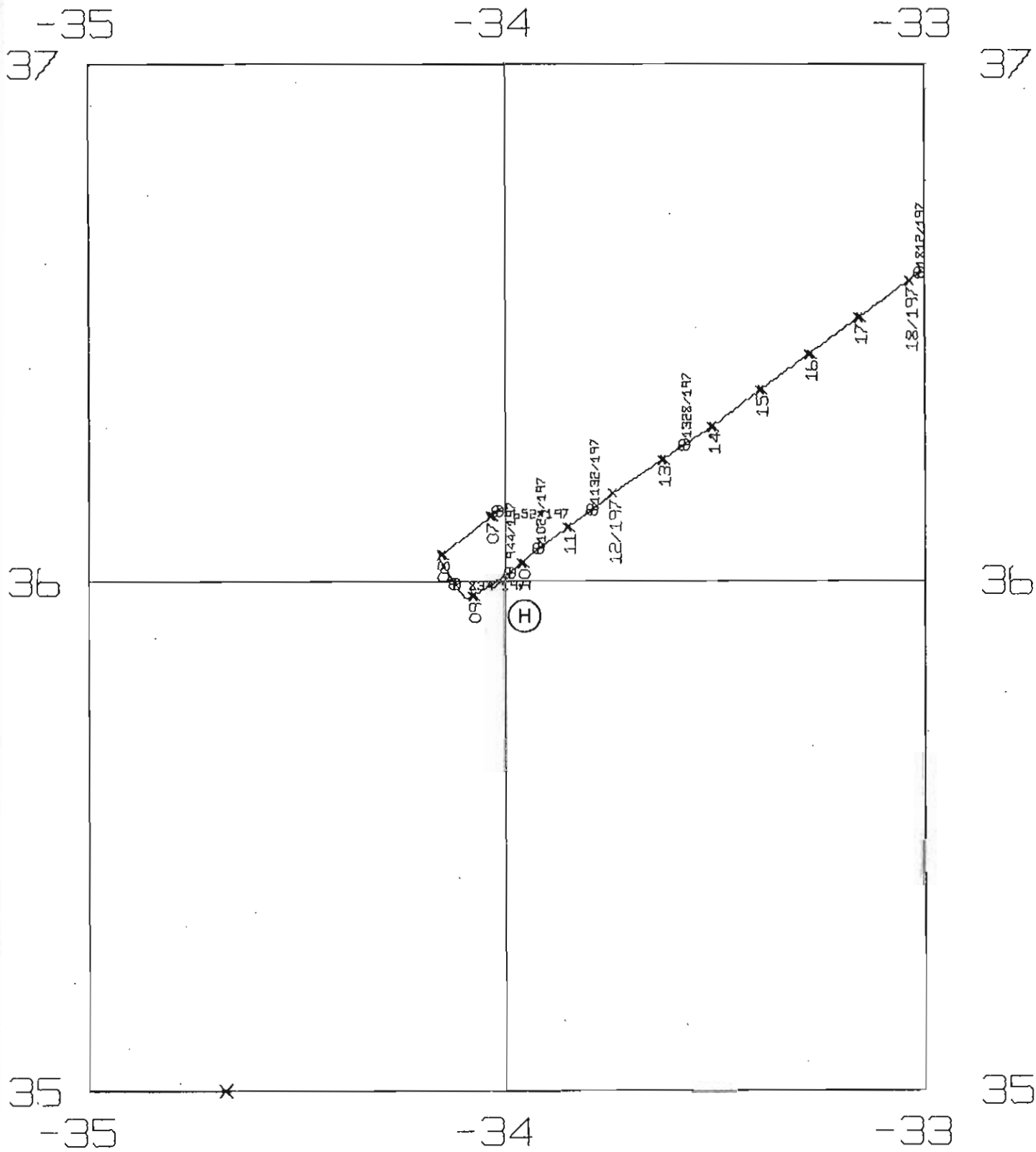












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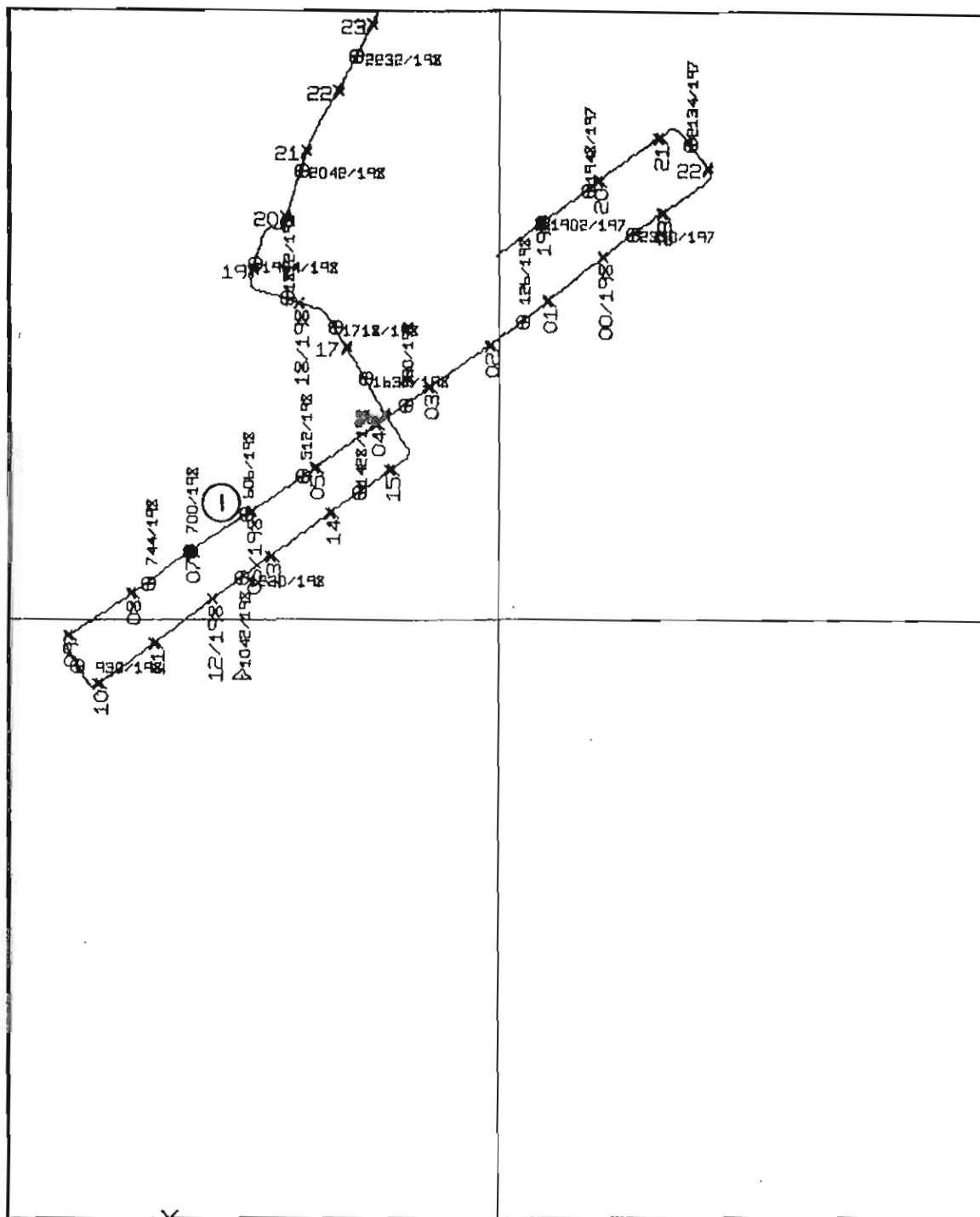
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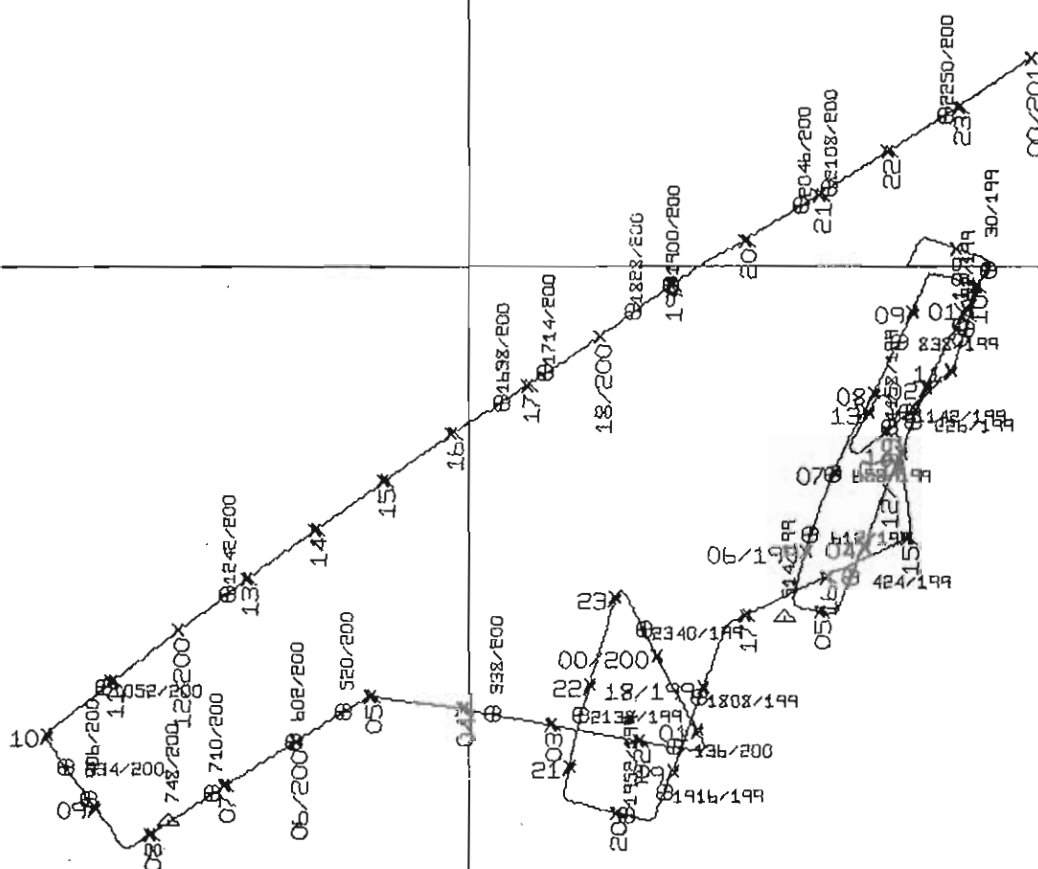


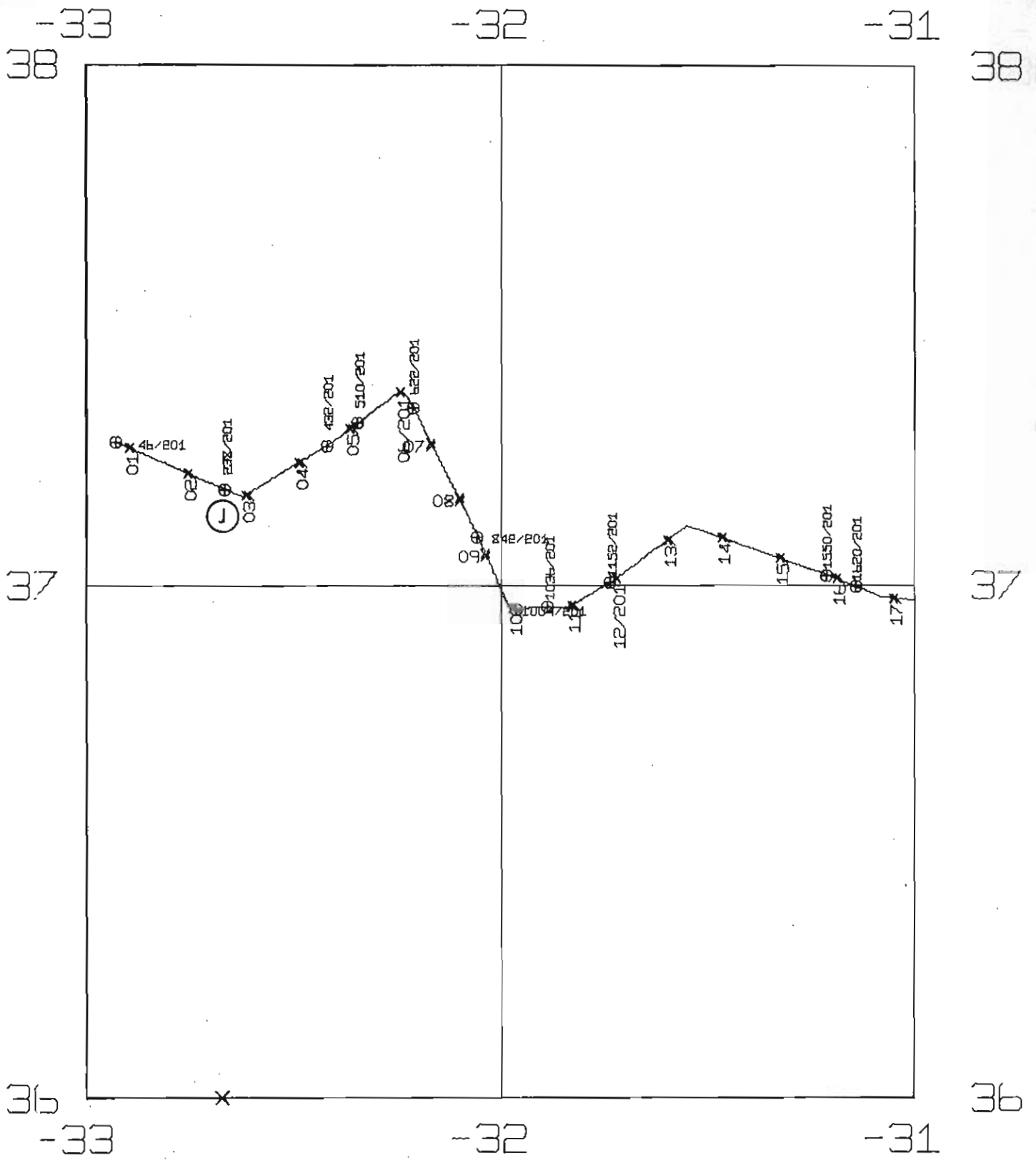
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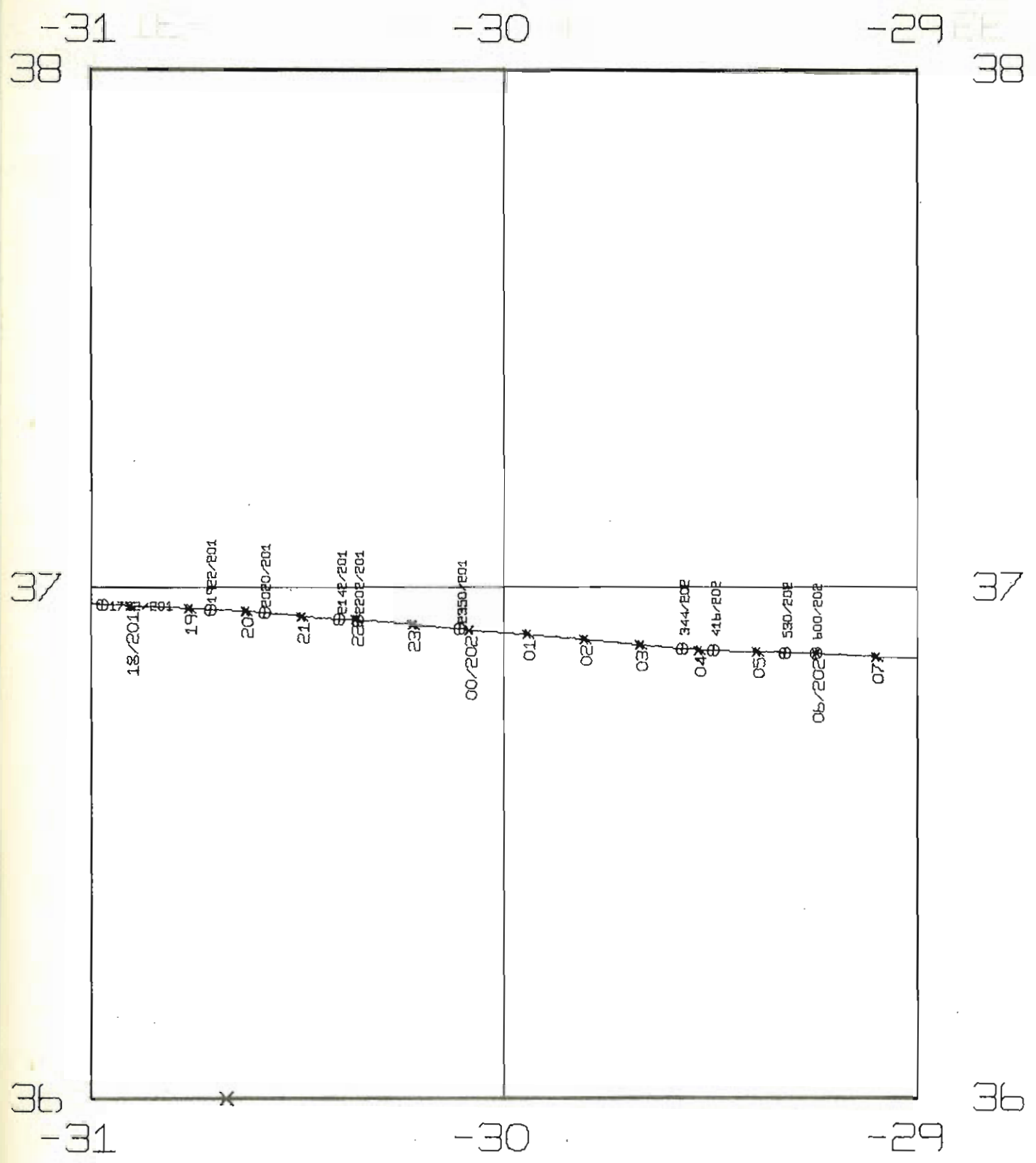
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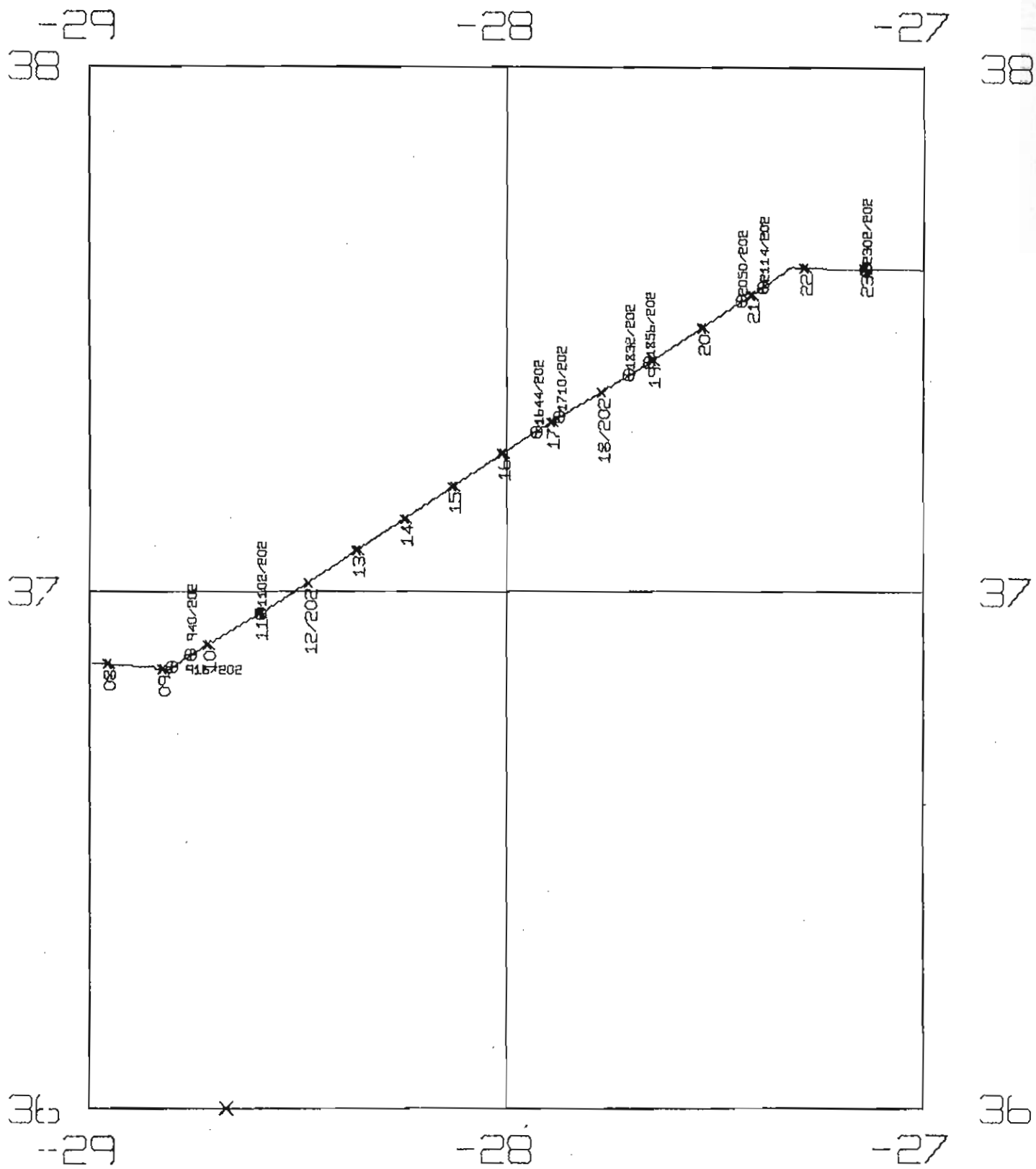
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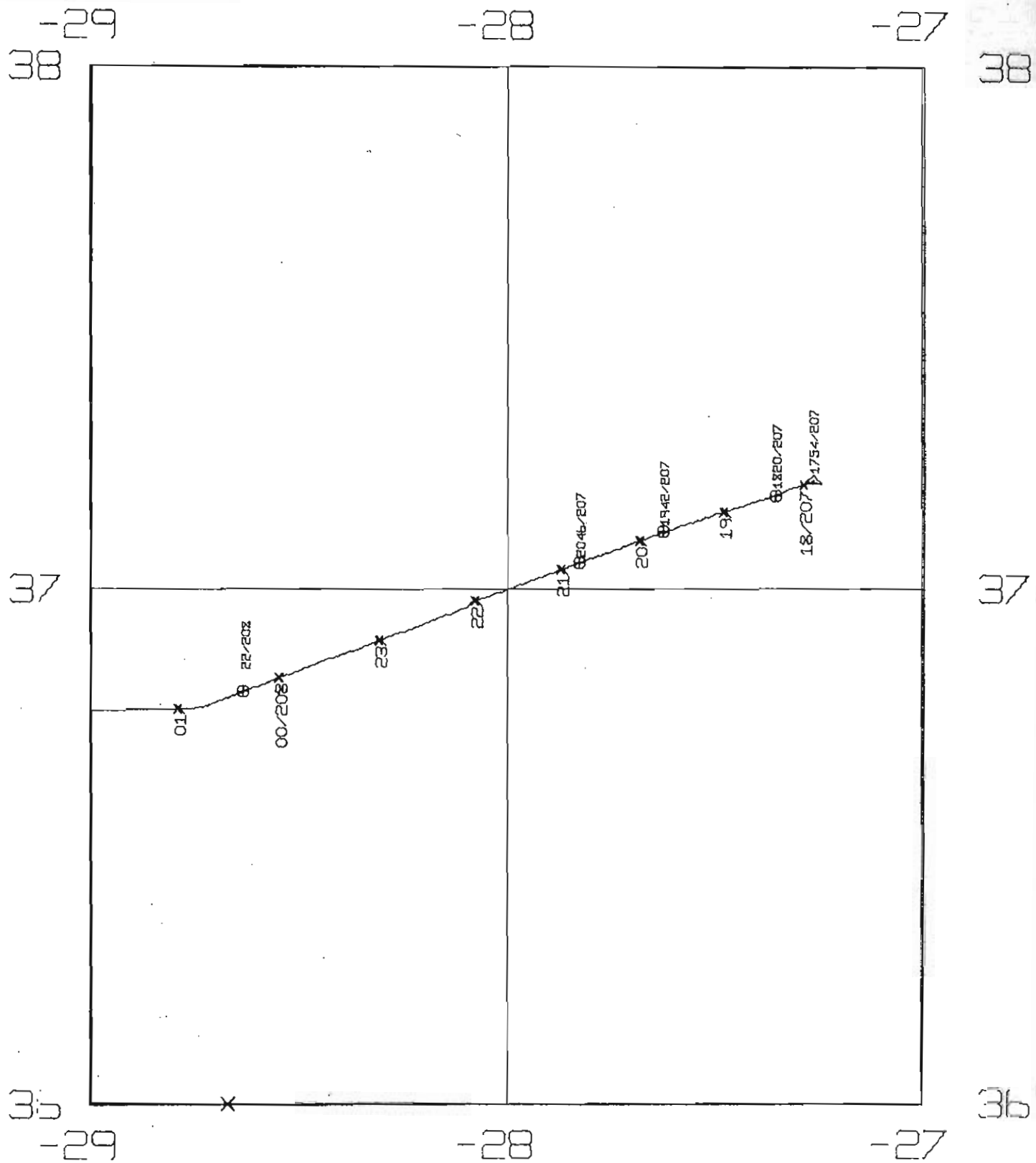
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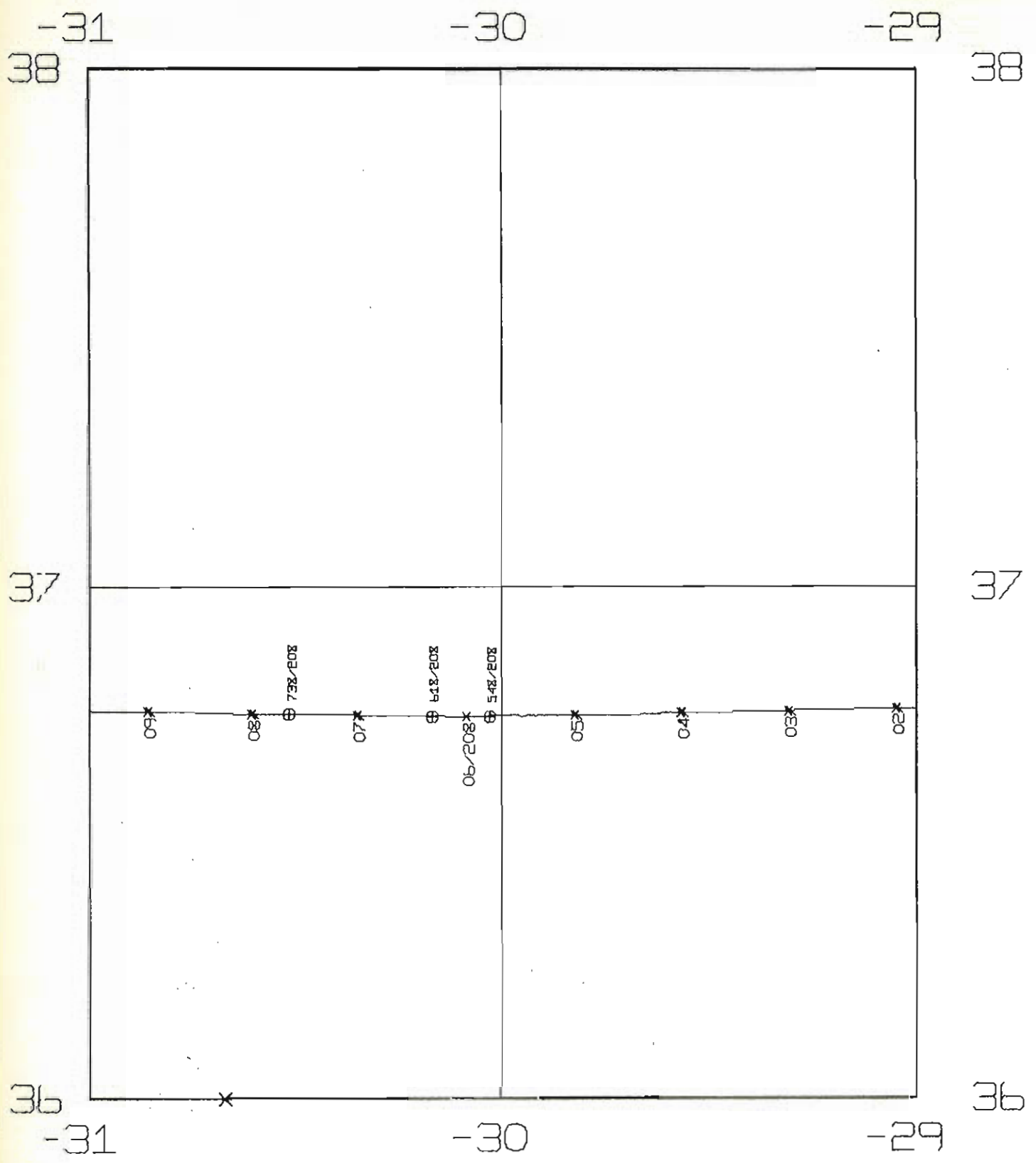


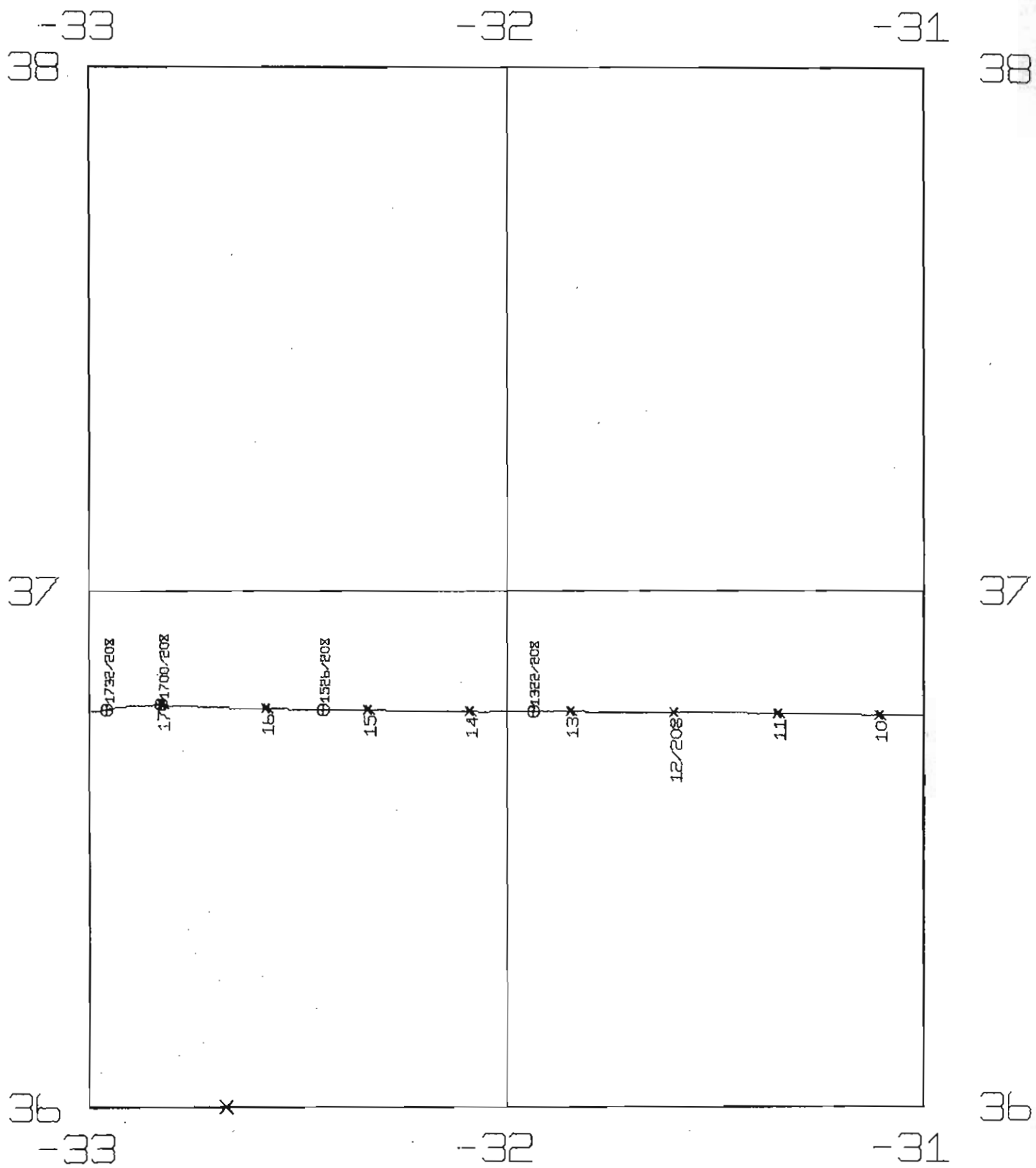


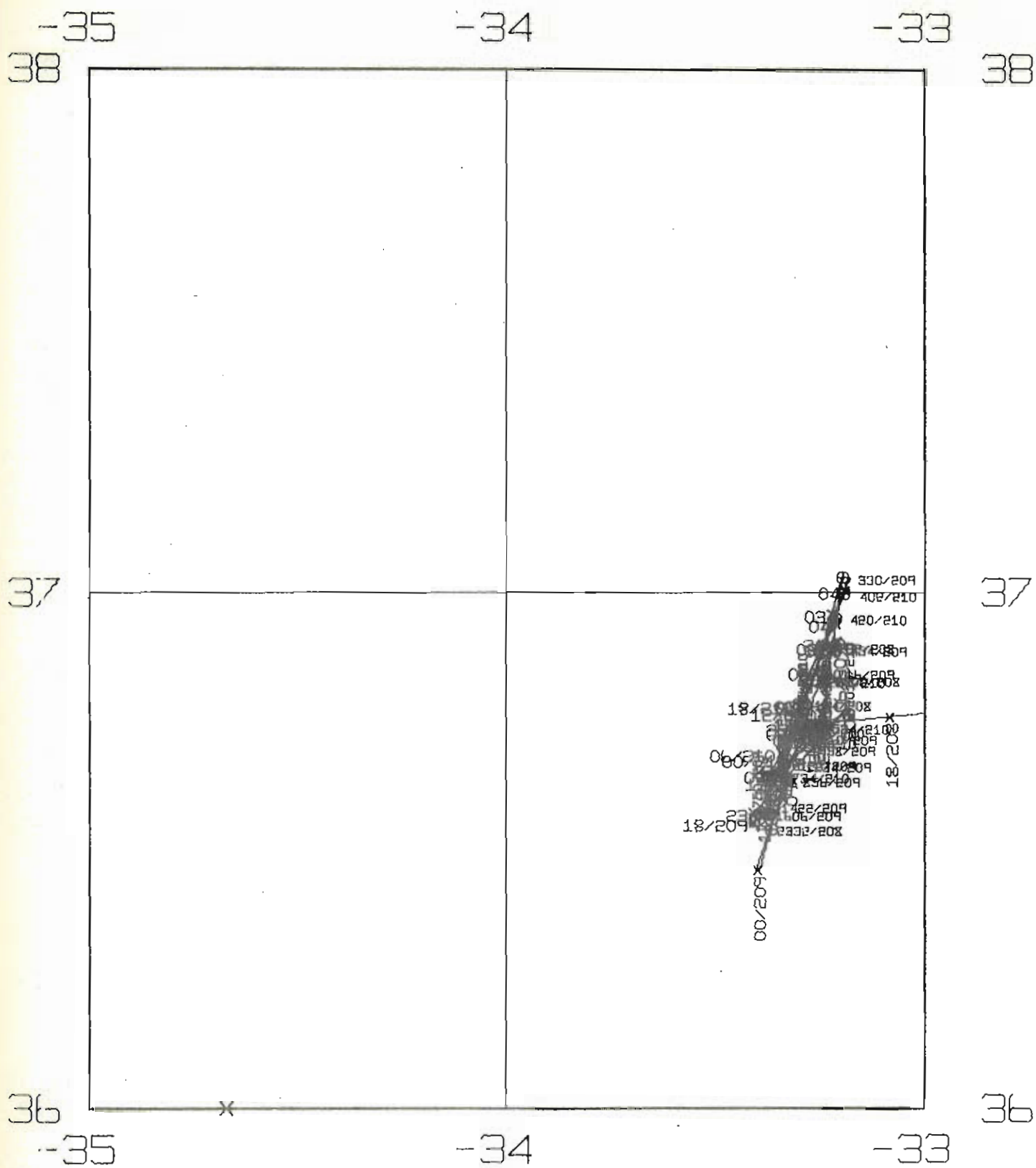


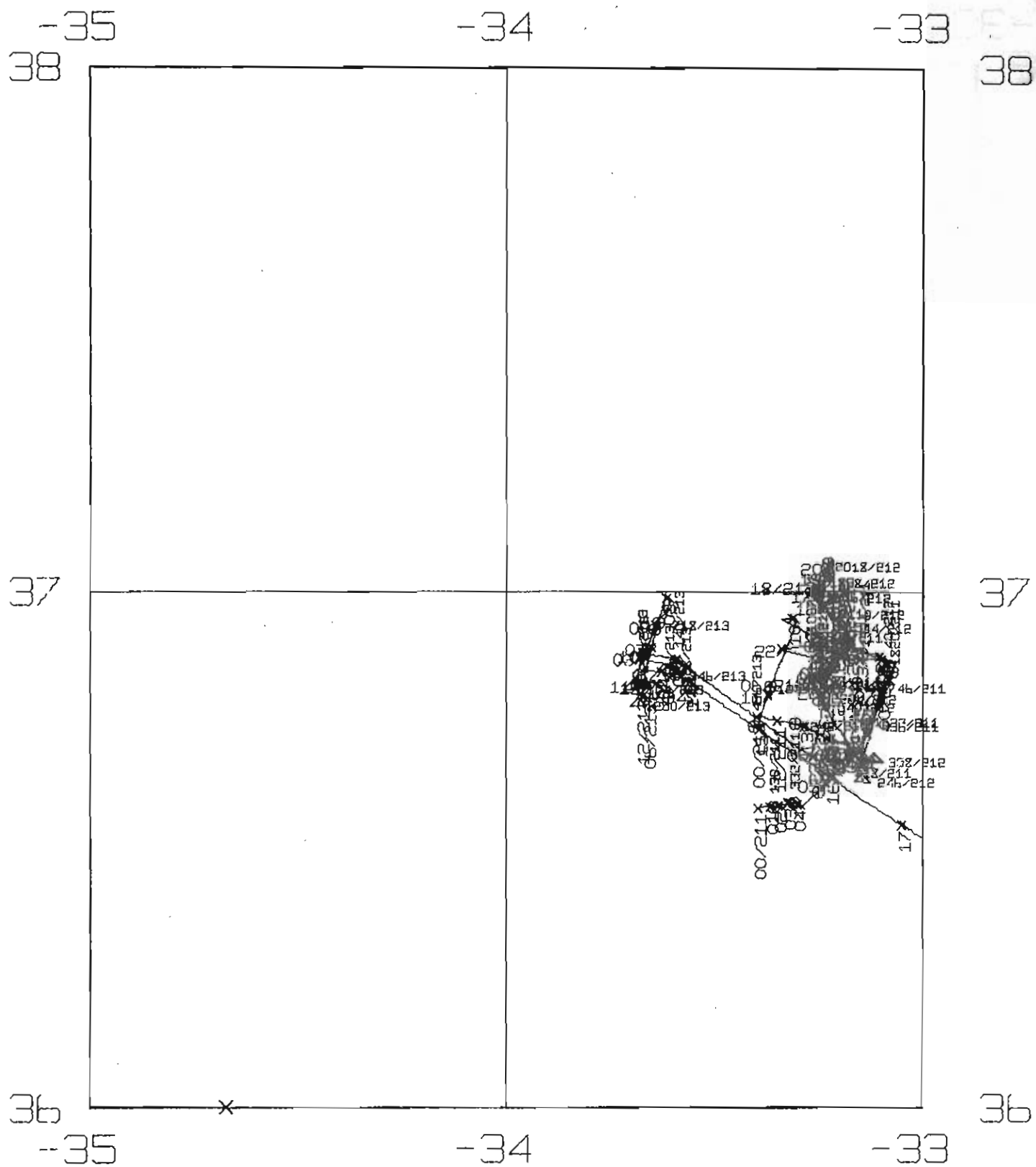


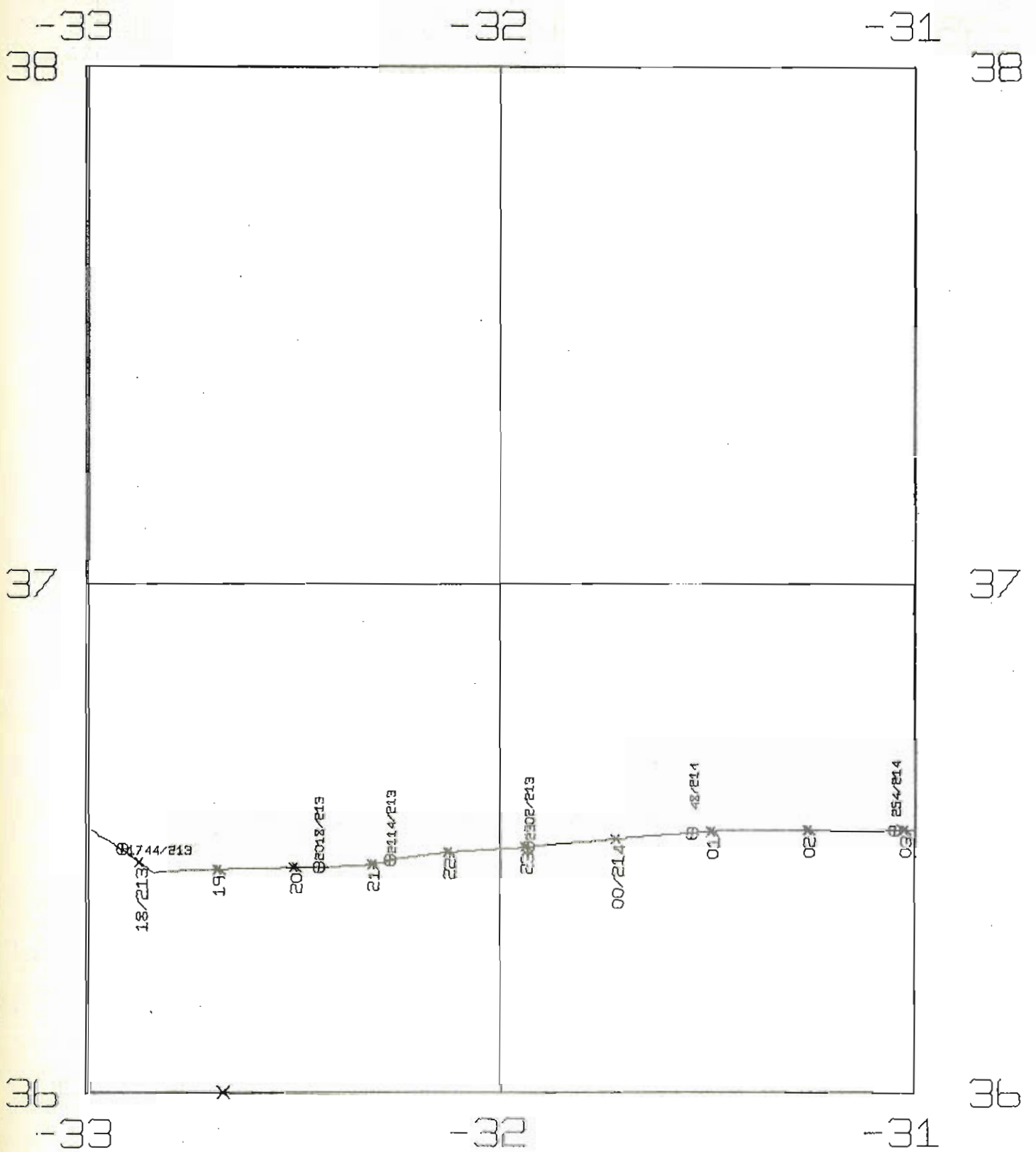


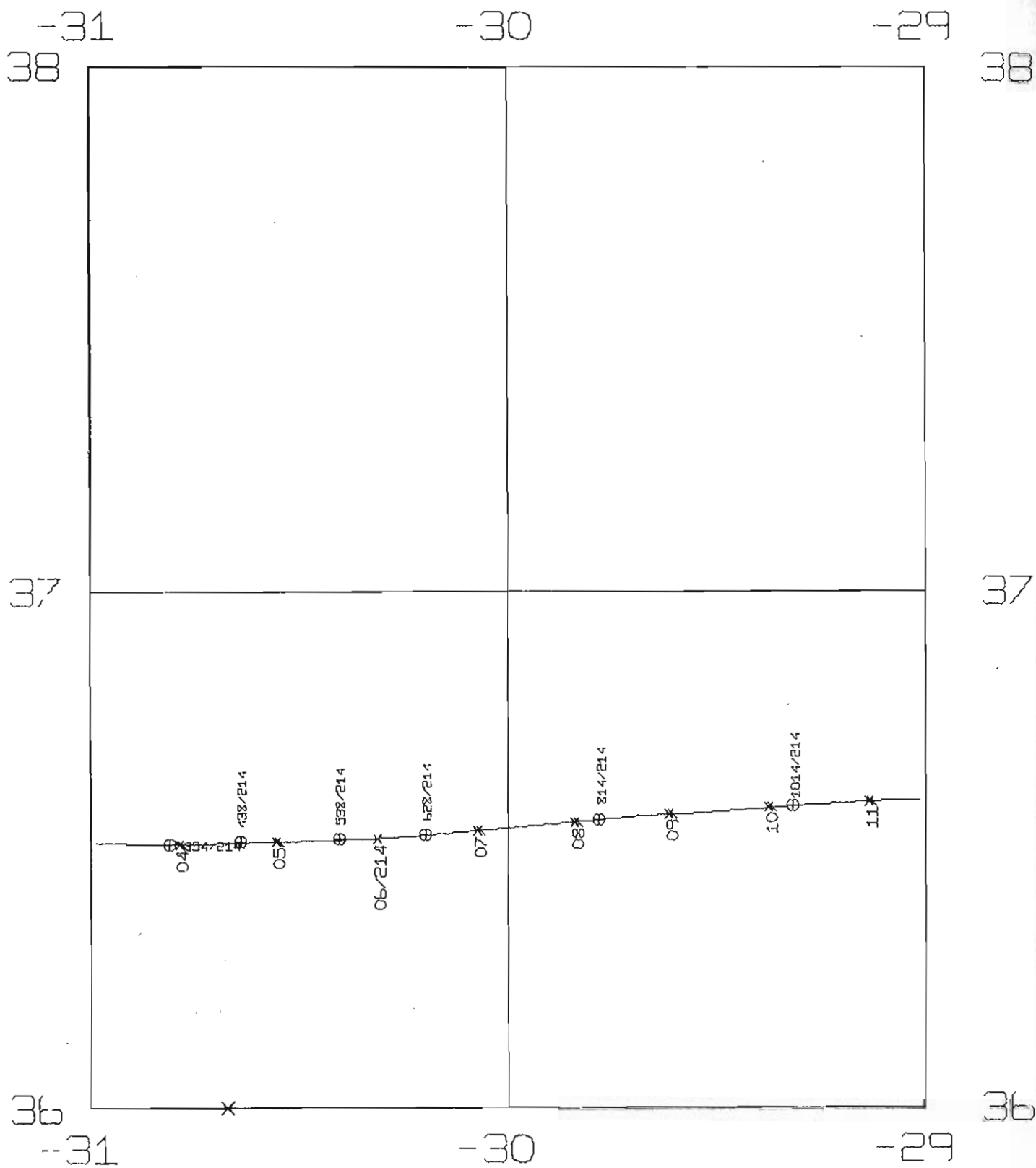


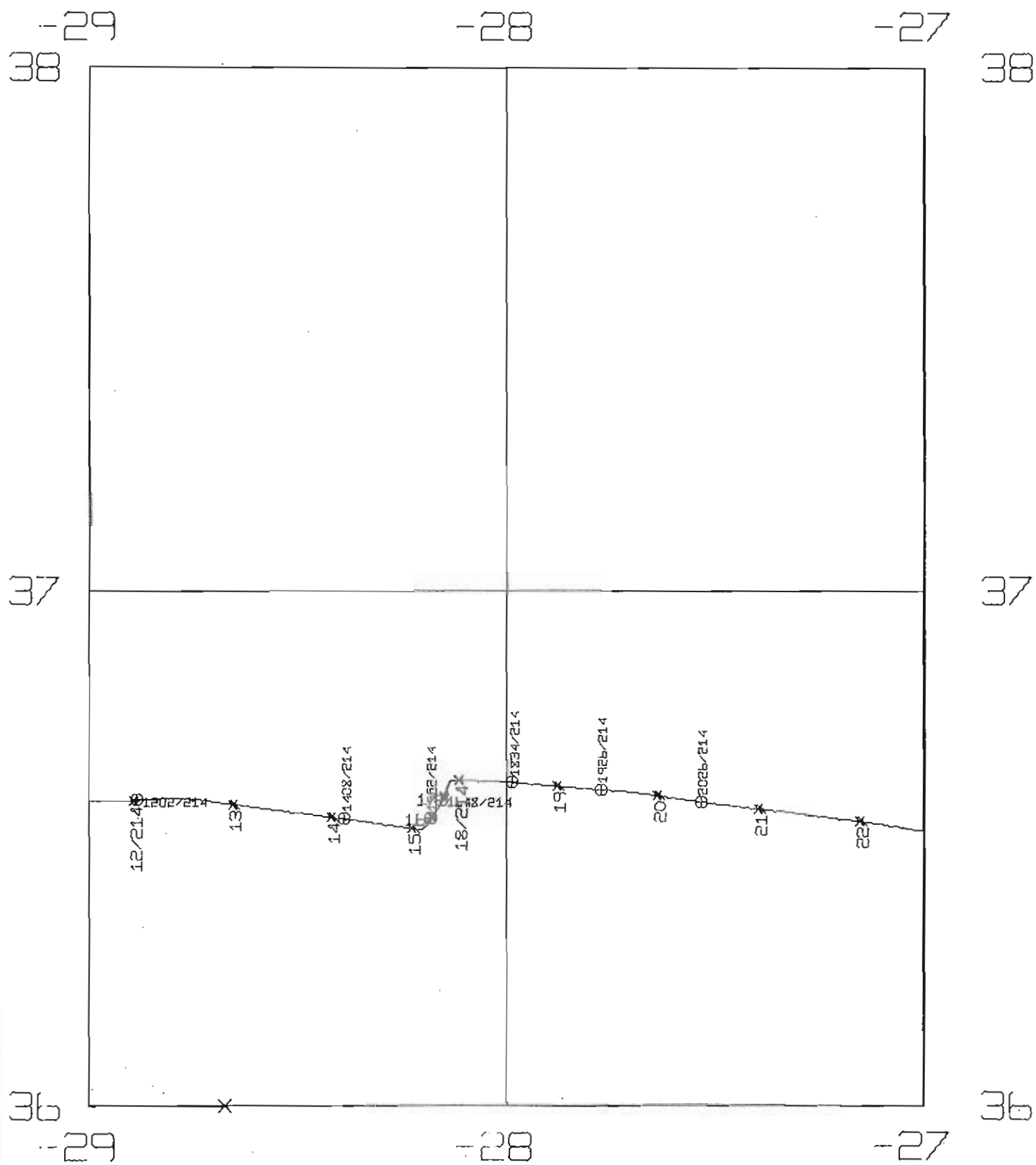


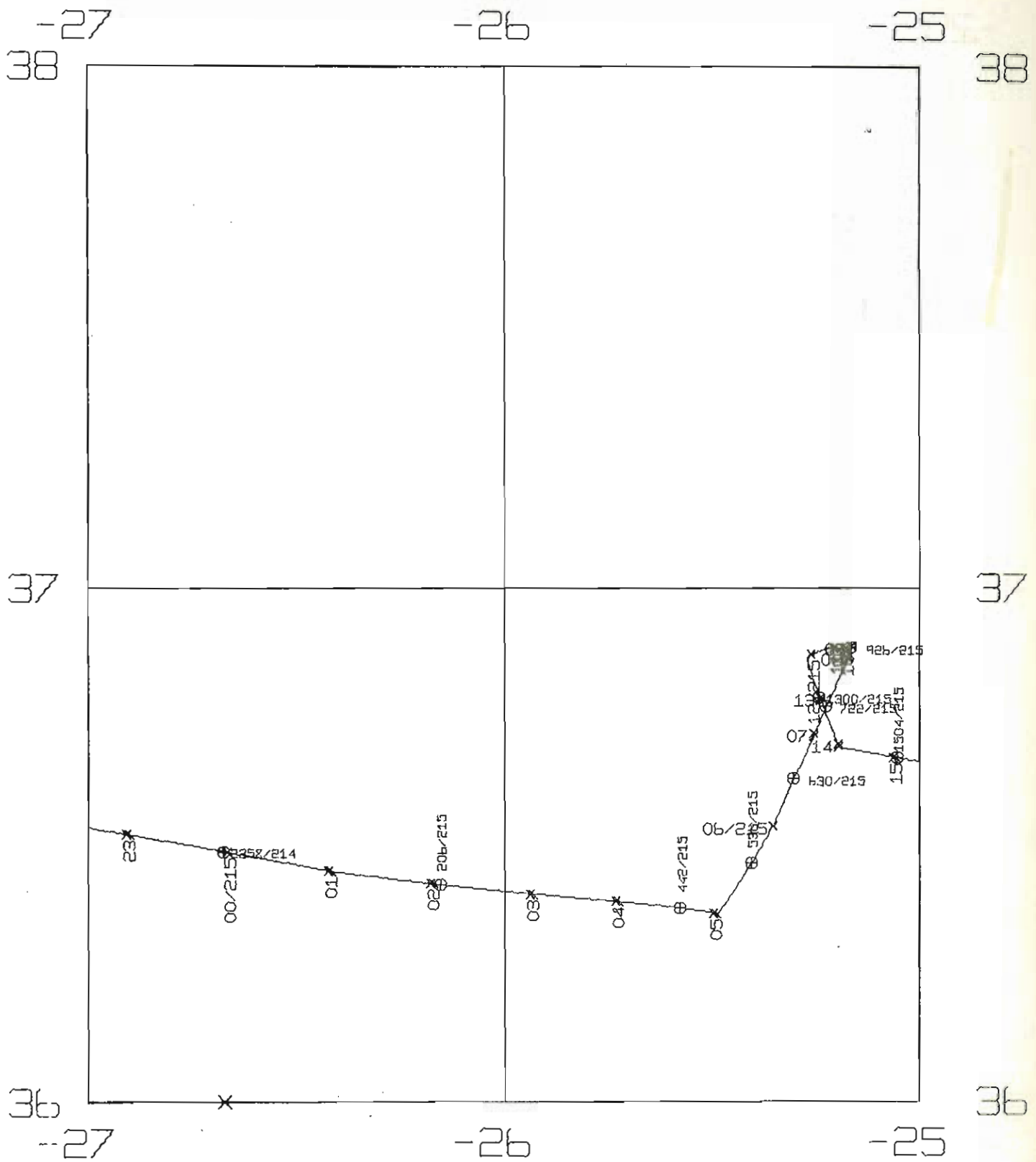












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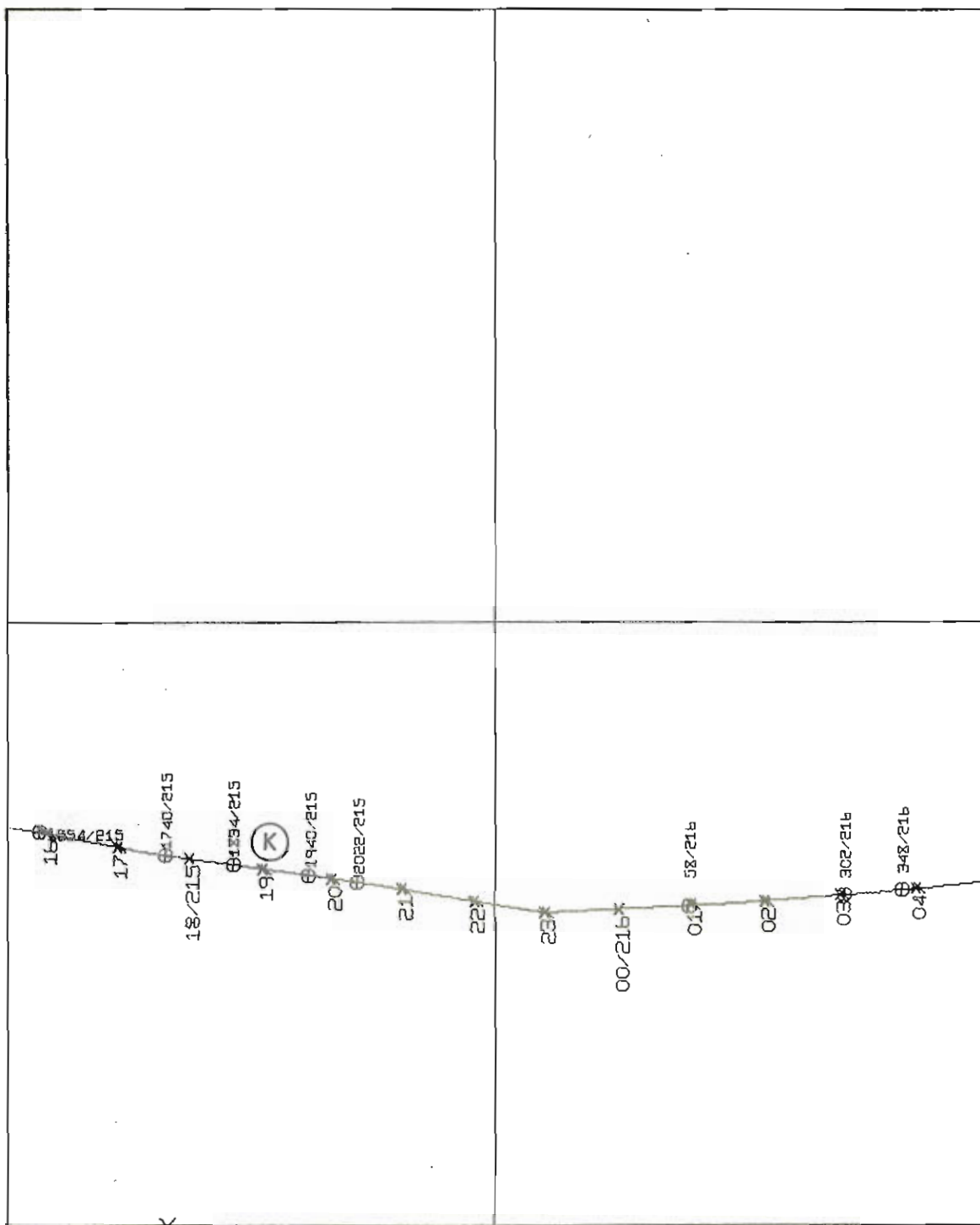
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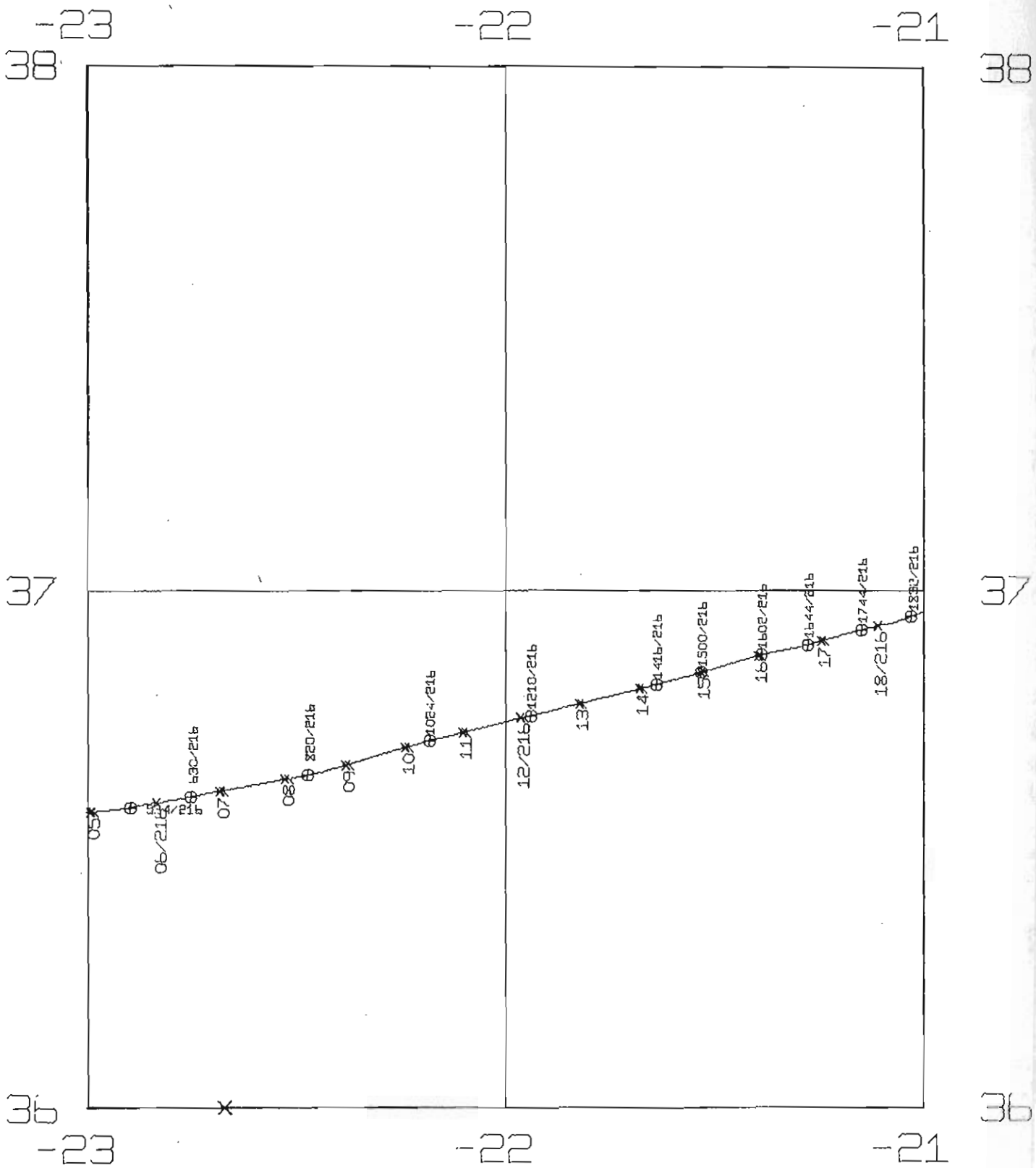
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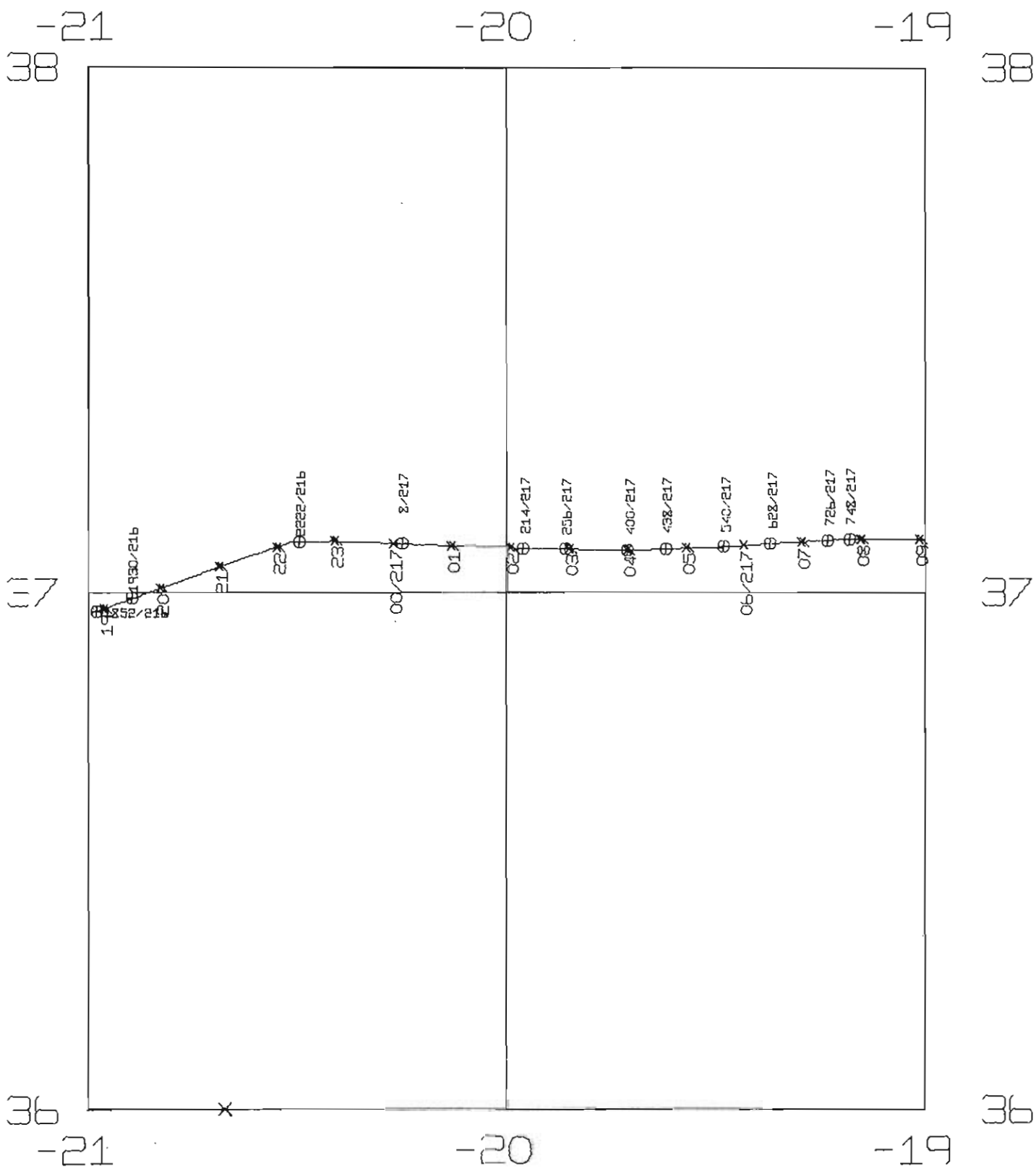
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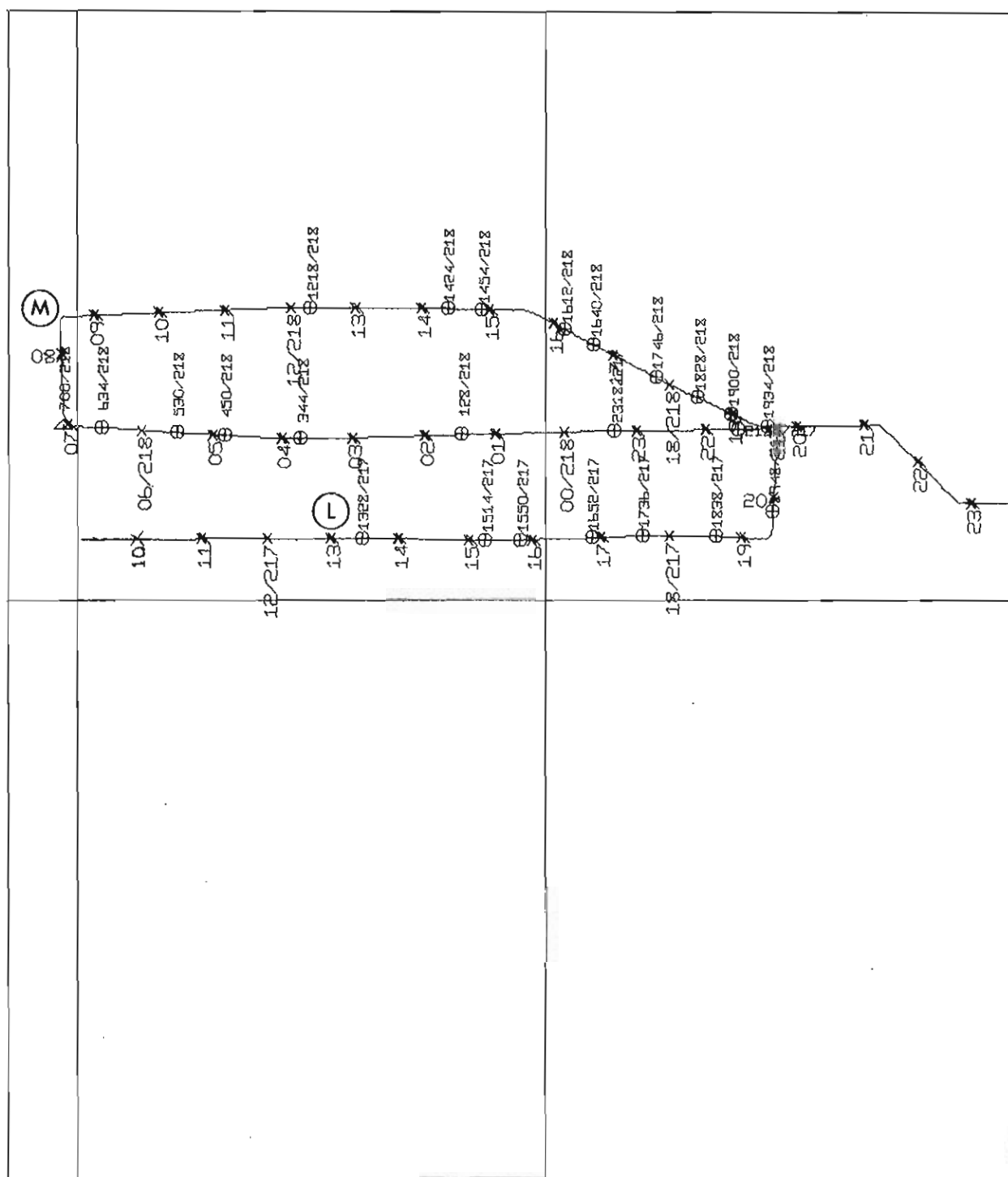


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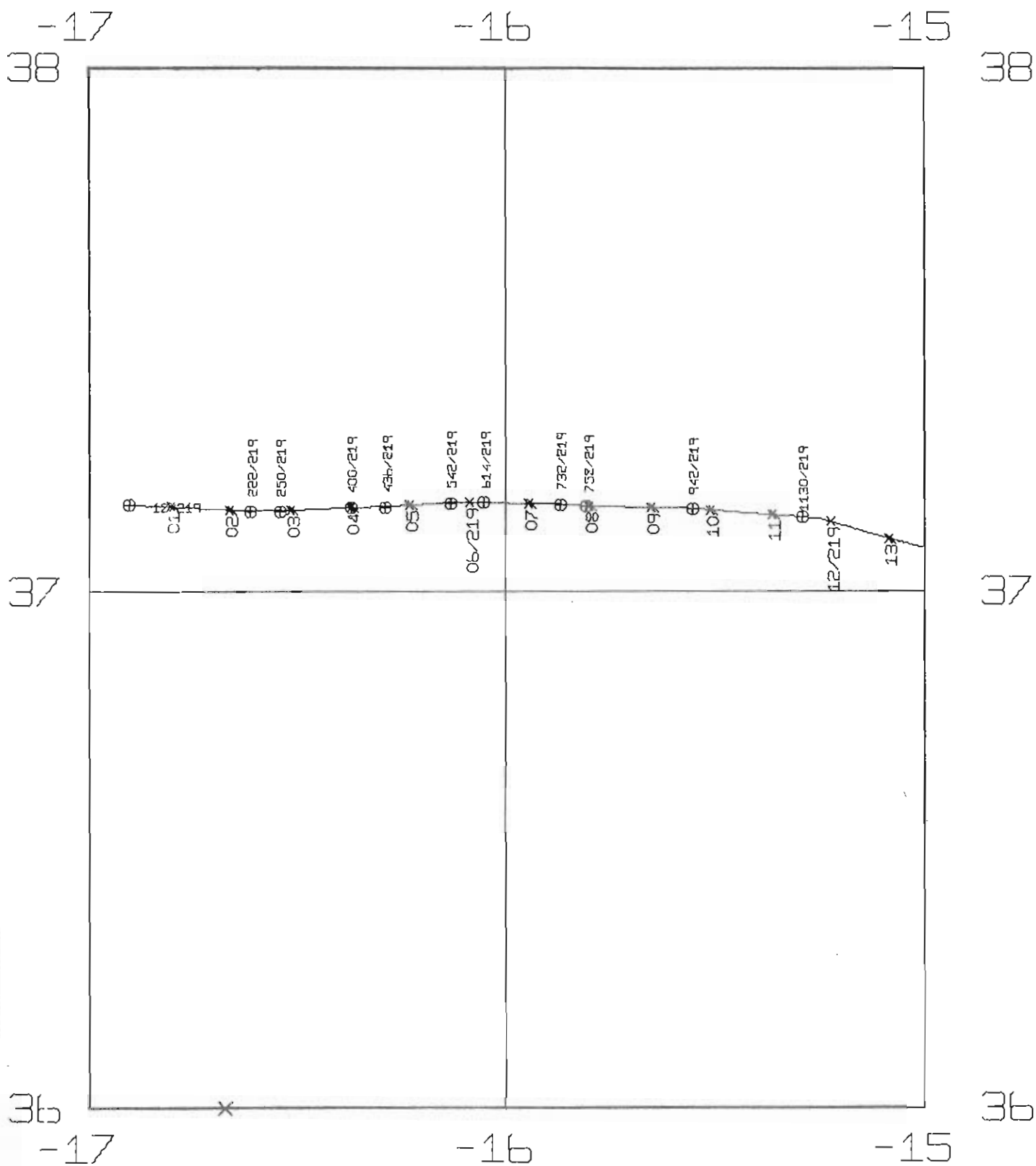
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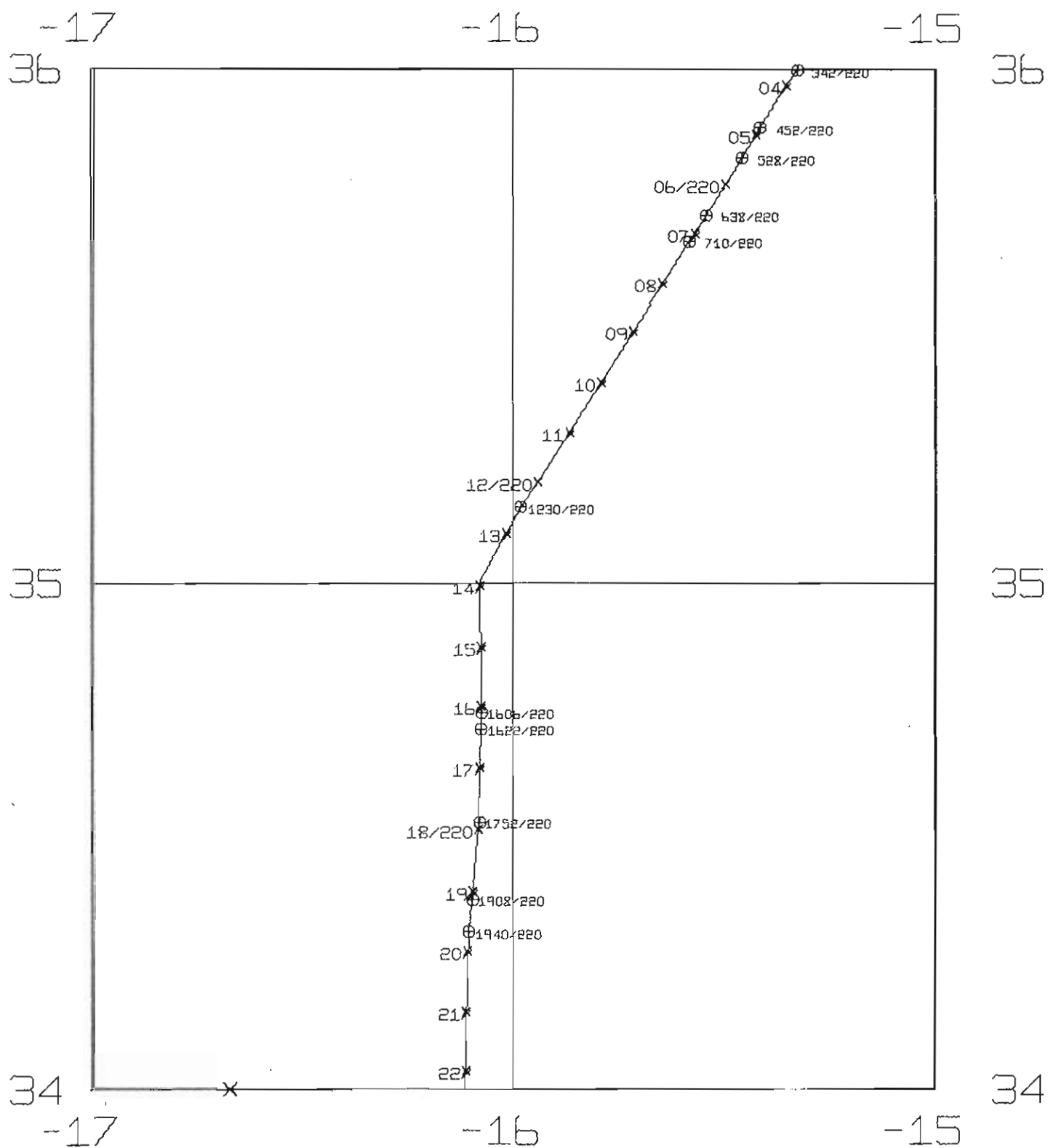
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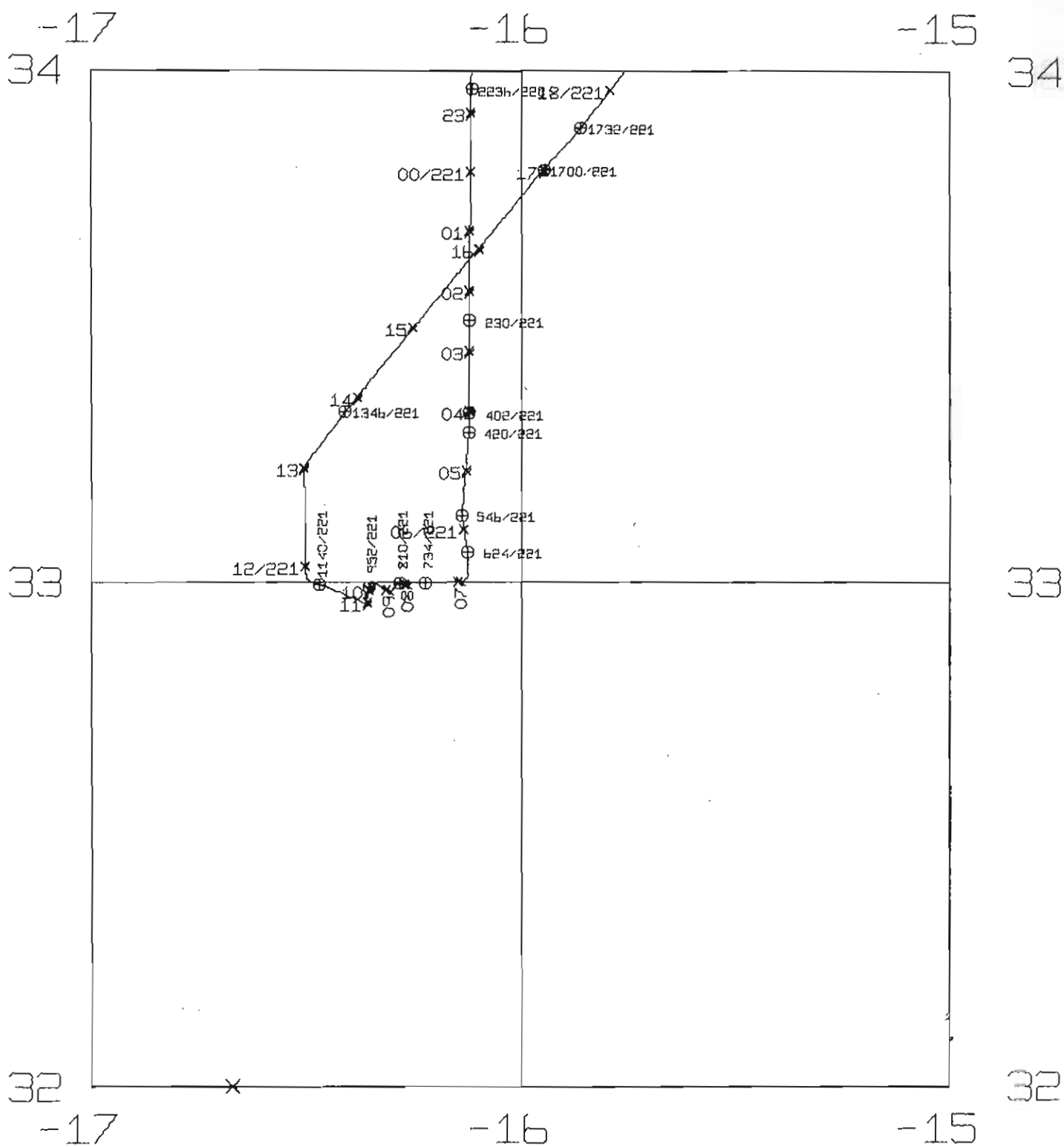
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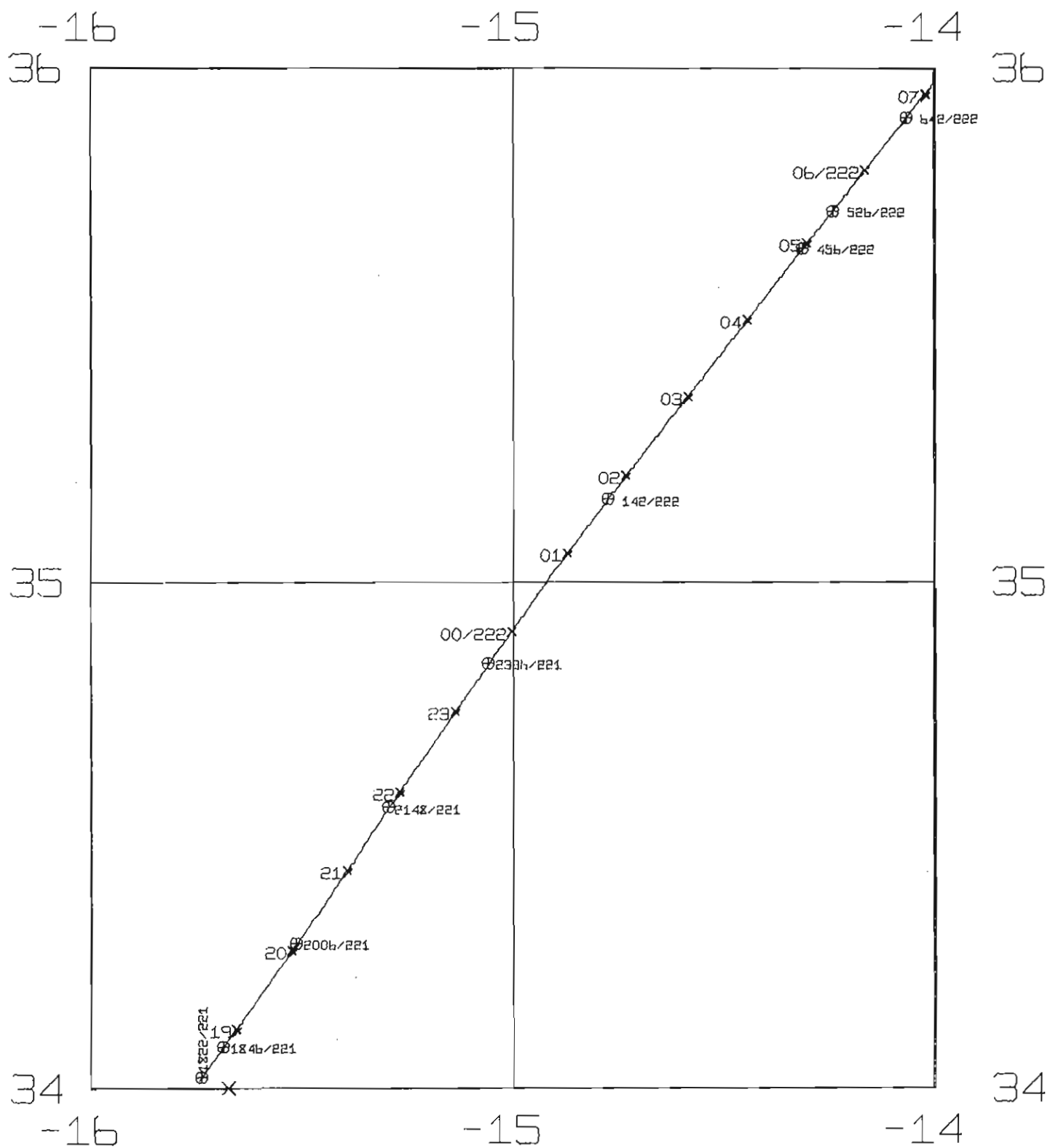
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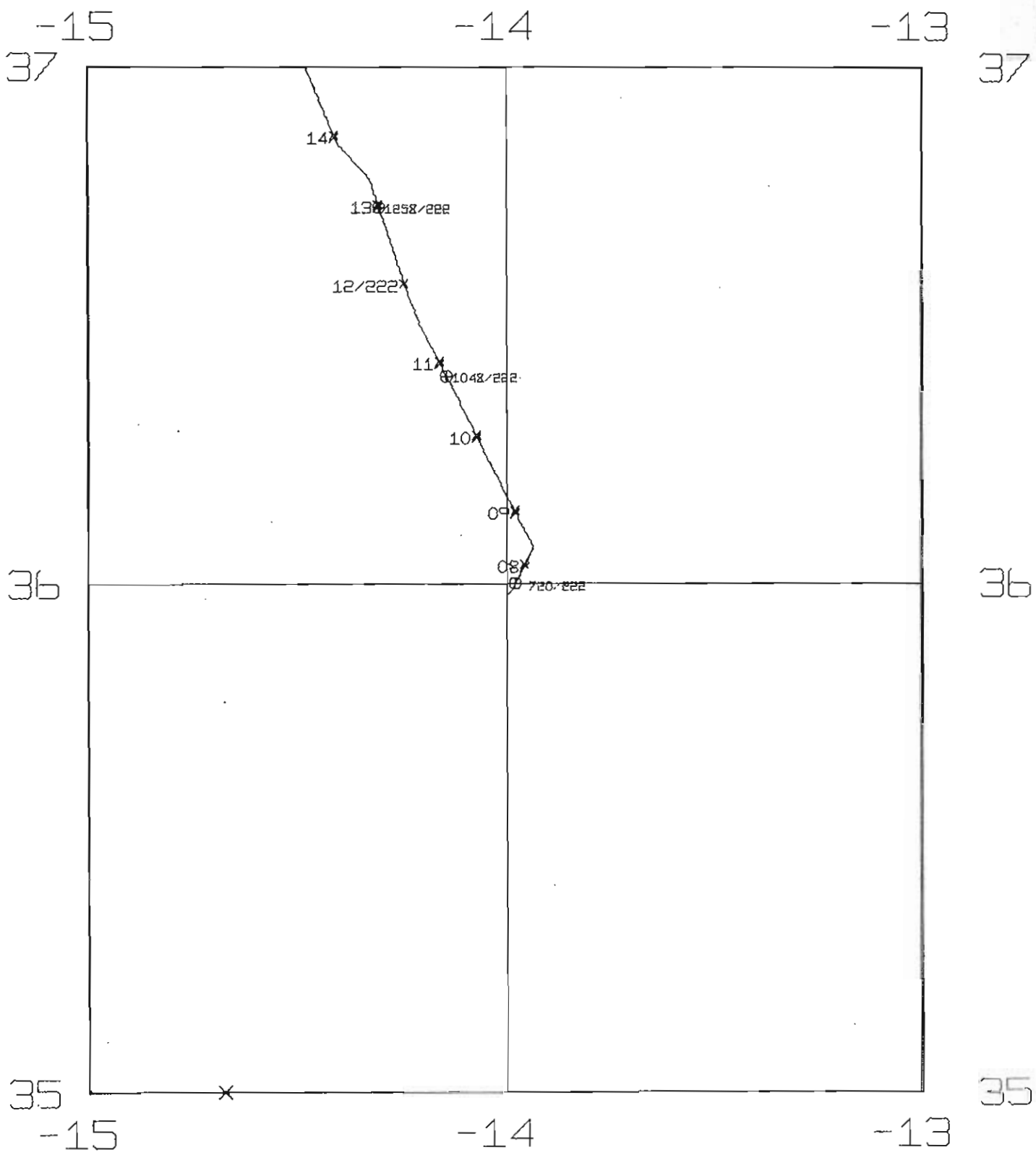
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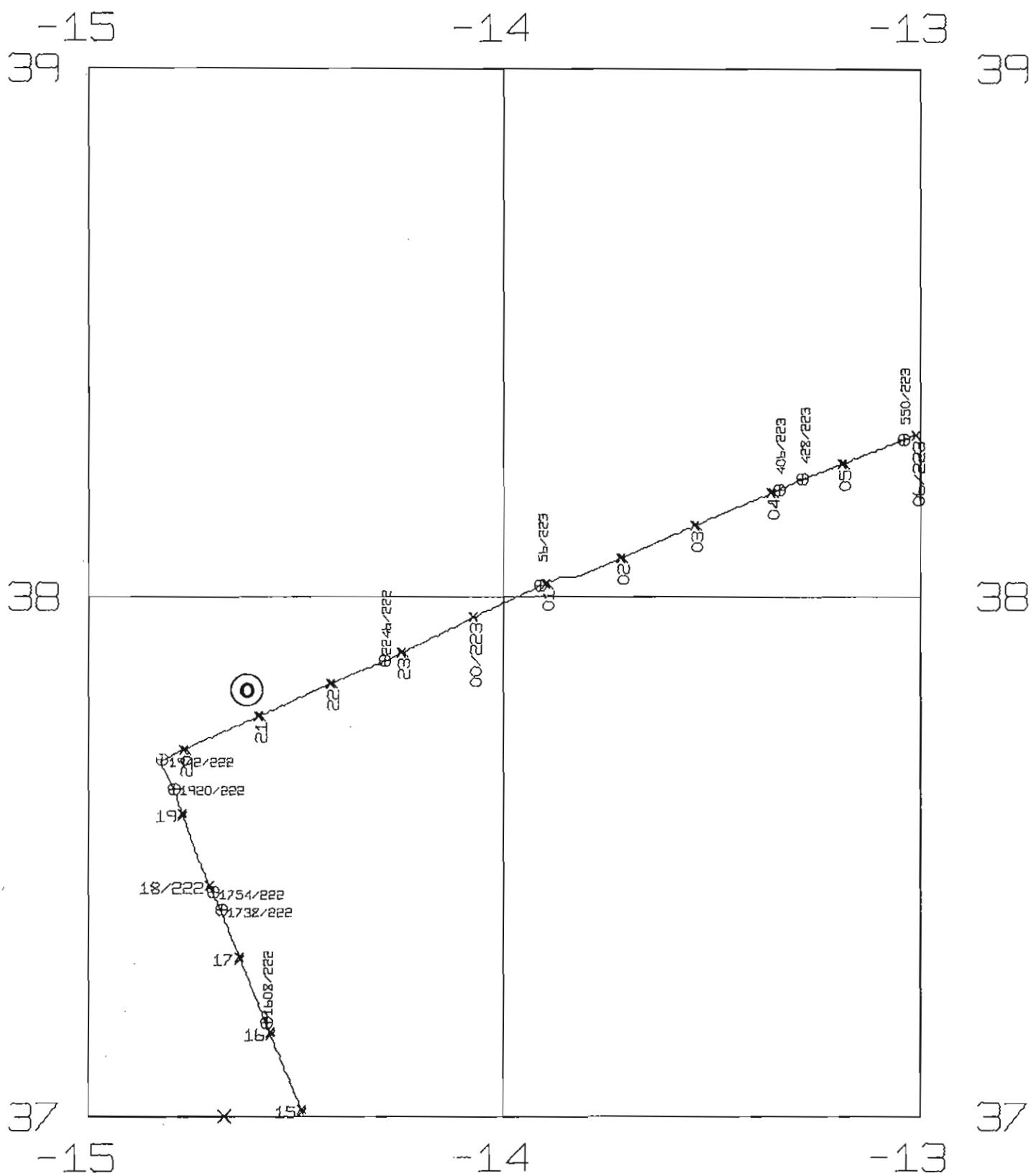


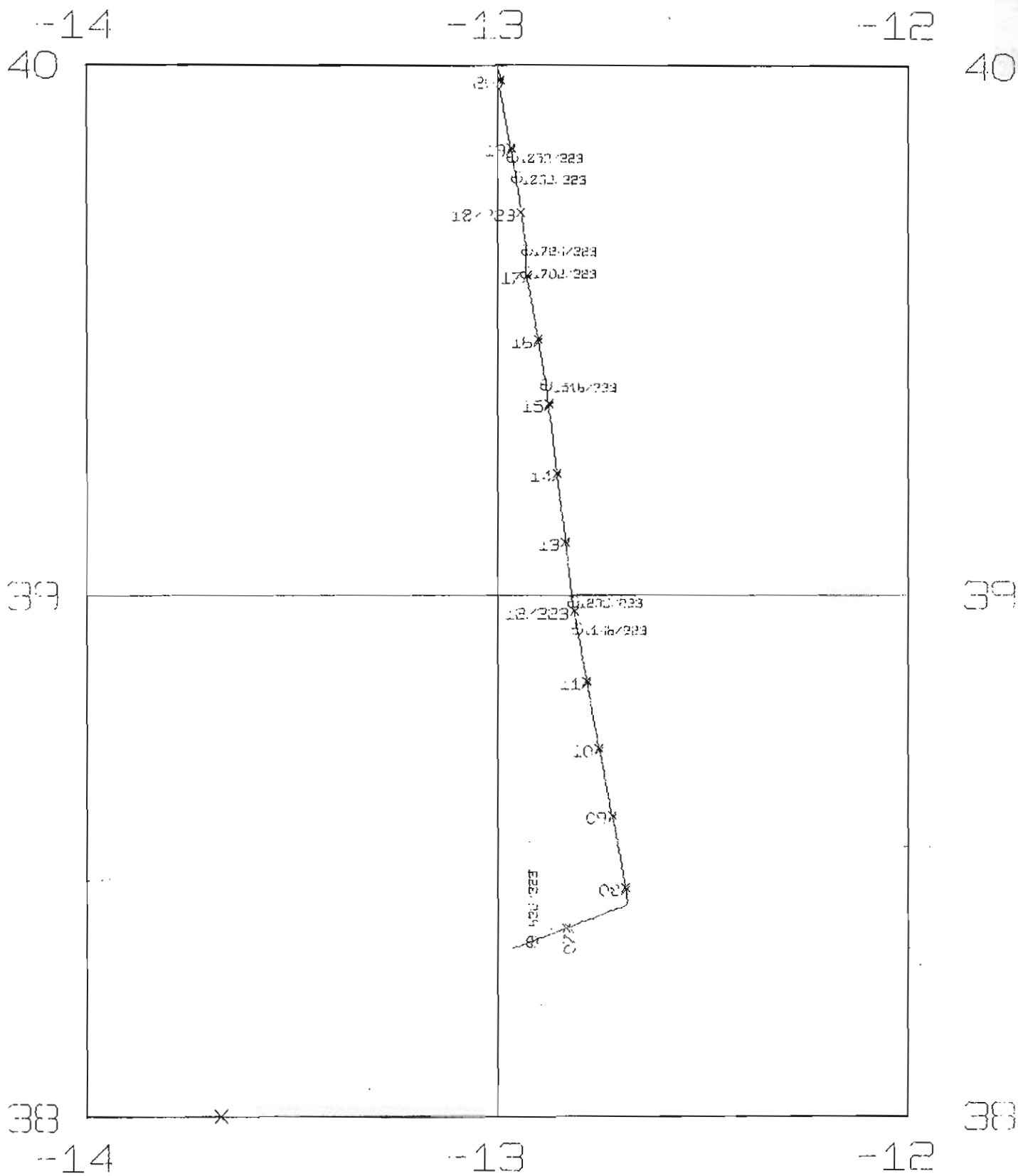


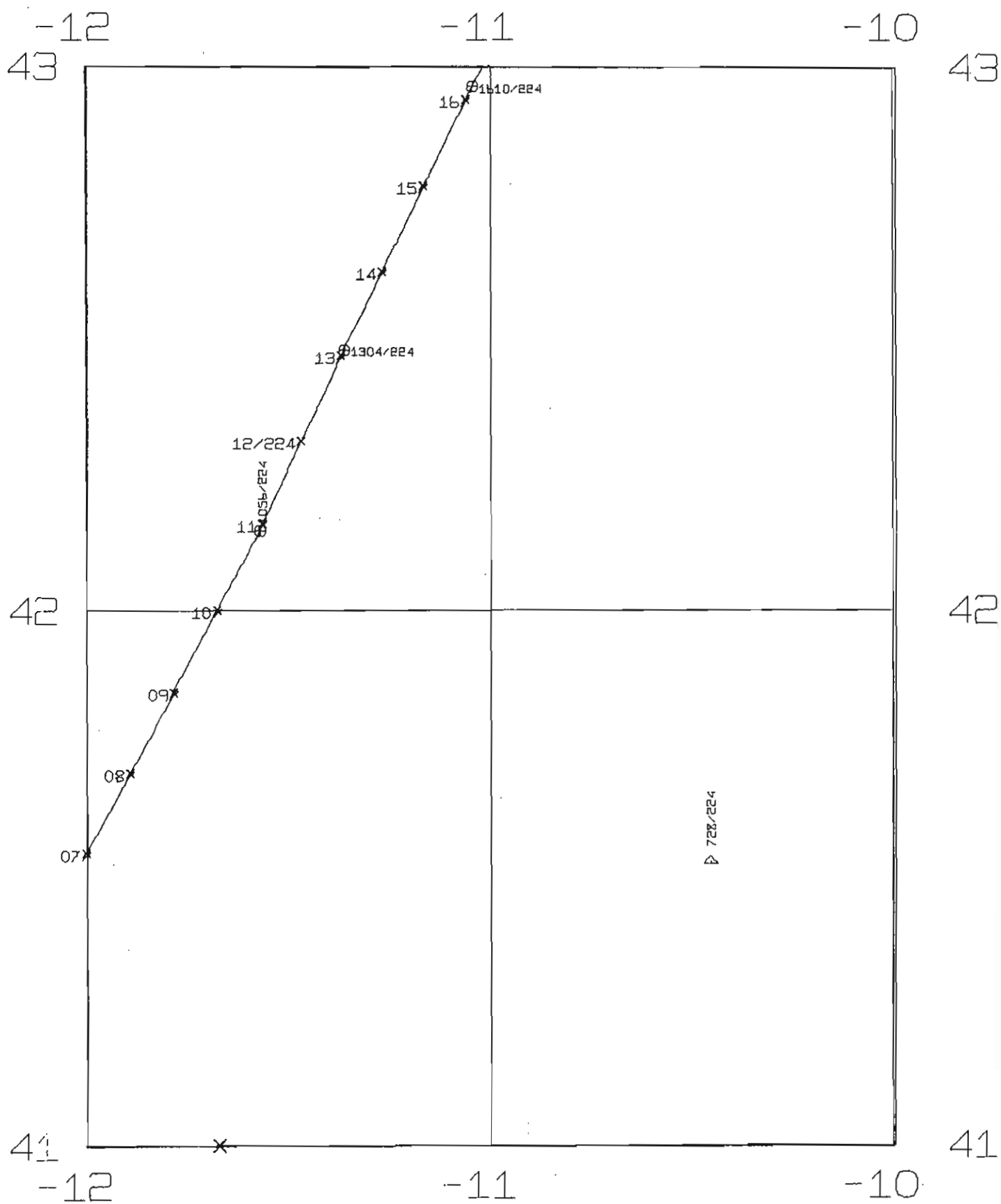


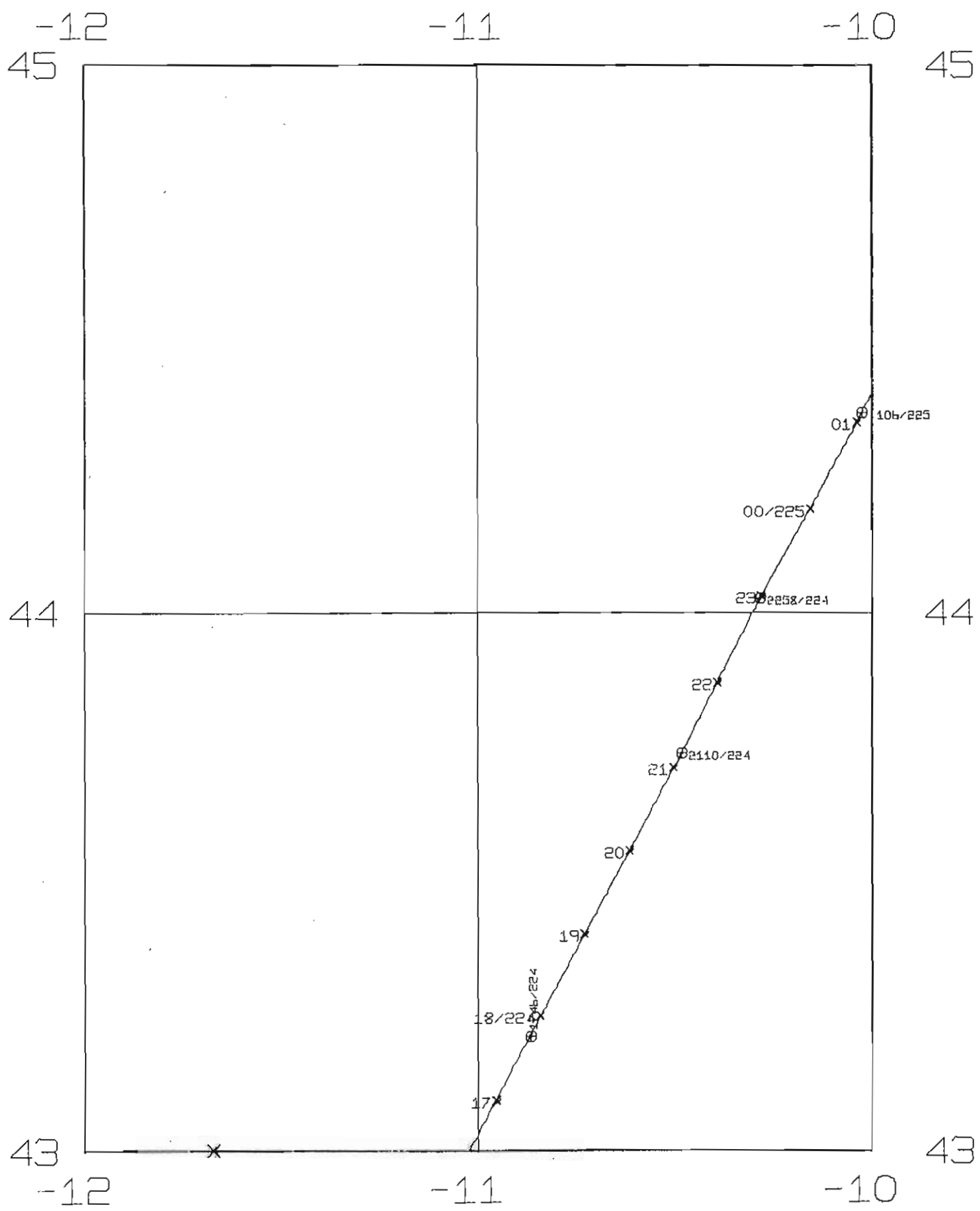


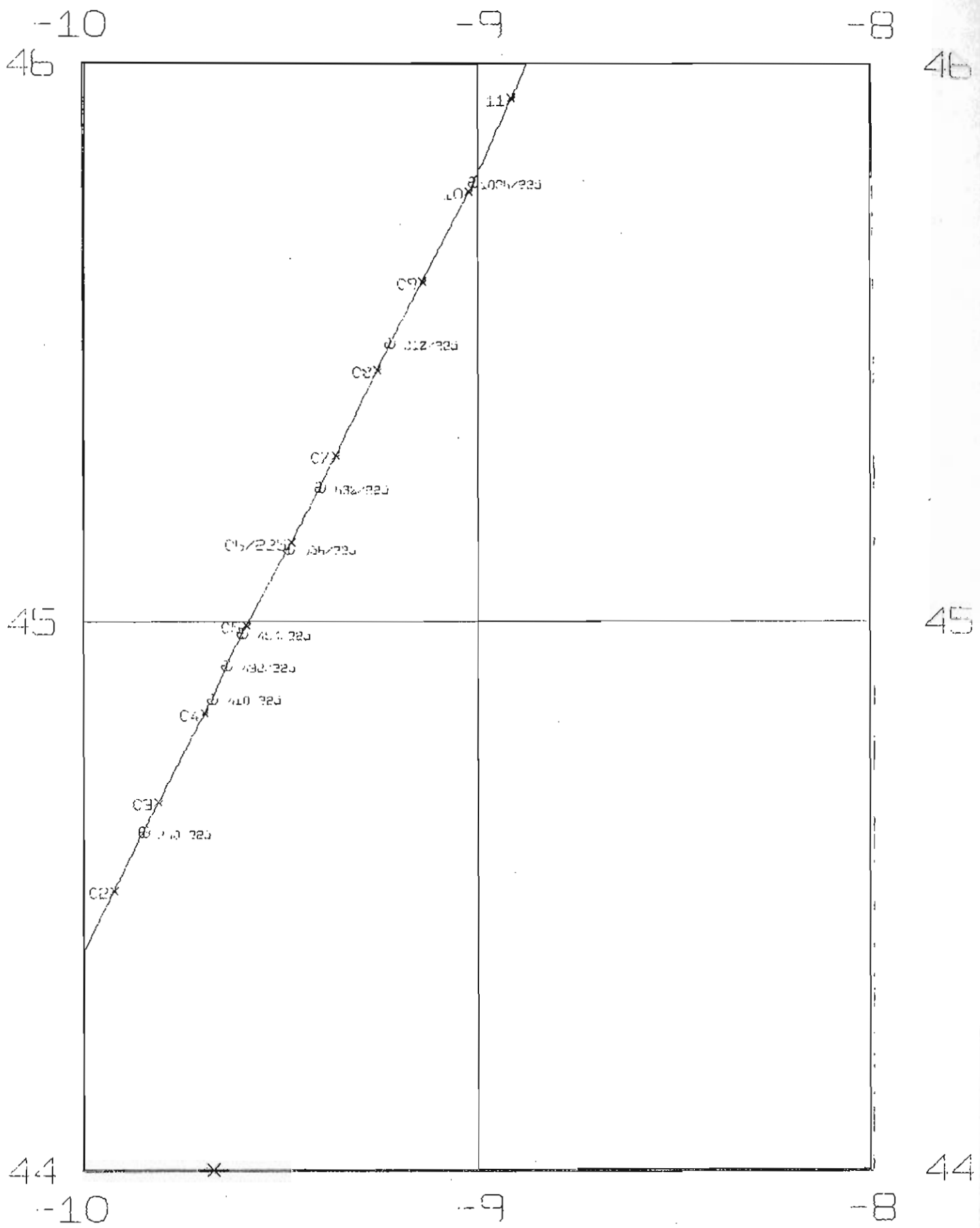


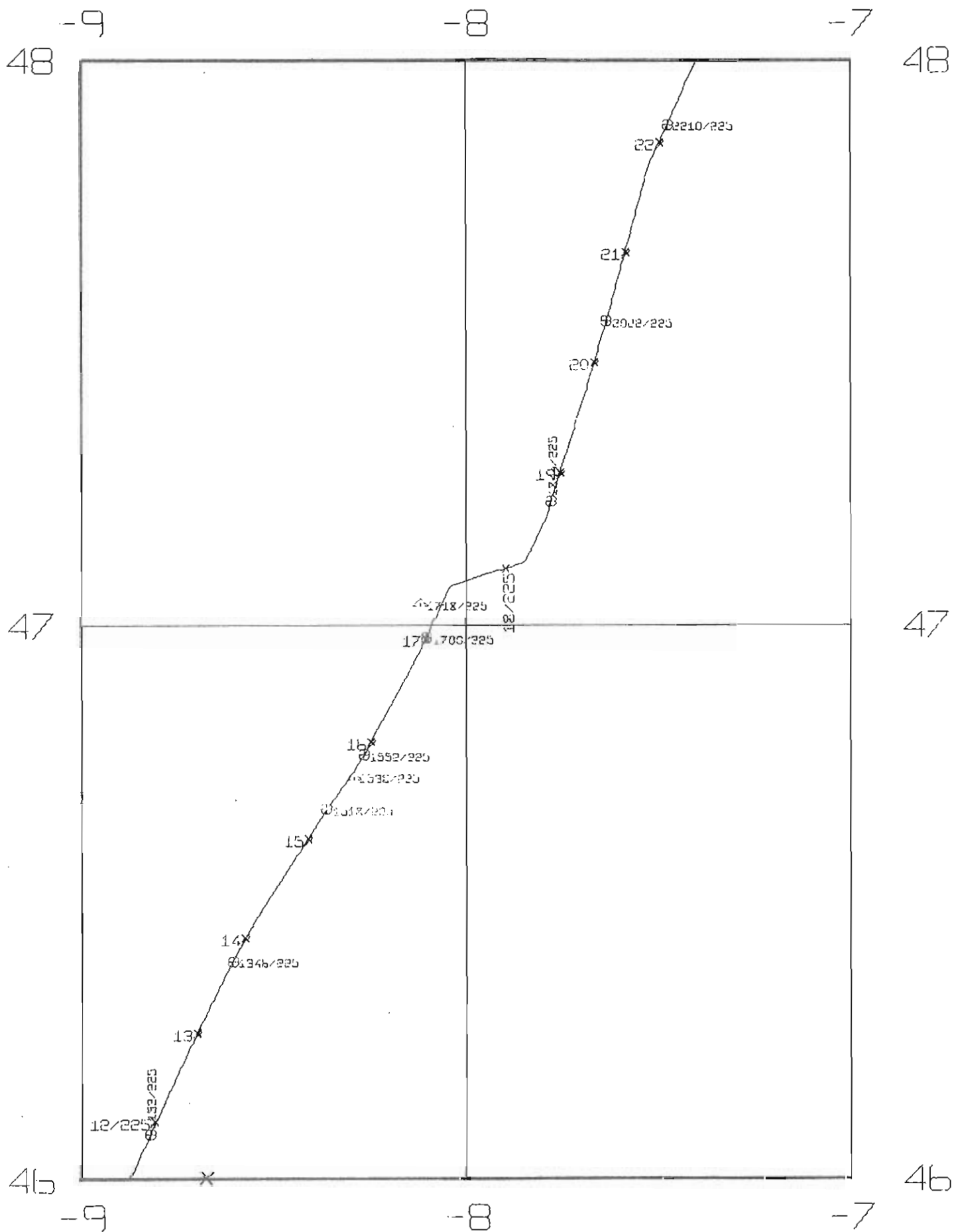












SECTION C

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 1- 7-1973
(DAY NO 182)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21		47834	47842	47842*20	47848*26	47844	47832	47842	47850	47854
22	47854	47866	47876*14	47878	47882	47876	47876	47886	47900	47918
23	47922	47940	47934	47922	47926	47954	47984	47998	48014	48036

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 2- 7-1973
(DAY NO 183)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	48020	48008	48024	48042	48052	48060	48068	48072	48064	48046
1	48036	48032	48026	48020	48018	48018	48020	48022	48028	48030
2	48032	48032	48028	48016	48010	47996	47984	47974	47968	47964
3	47960* 2	47964	47976	47988	47996	48006*34	48006*40	48004	48004	48006
4	48012	48024	48038*16	48036	48042*26	48044*32	48044	48042*44	48036	48028
5	48024	48024	48028*14	48028	48026	48024	48024	48020	48018	48012
6	48010	48006	48004	48004	48004	48008	48016	48026	48036	48050
7	48064	48078	48096	48112	48128	48142	48154	48164	48170	48172
8	48170	48168	48168	48164	48164	48168	48166	48176	48186	48190
9	48182* 4	48184	48188*16	48184	48176*26	48180	48176	48174	48184	48180
10	48180	48188* 8	48186	48192	48210*26	48150*34	48154	48212	48220	48224
11	48294* 4	48296* 8	48286	48282						
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 3- 7-1973
(DAY NO 184)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 4- 7-1973
(DAY NO 185)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9	48086	48046	48006	47980	47964*26	48276	48250	48210	48166	48124
10	48166	48174	48140*16	48132*22	48140	48146	48144	48064	48112*50	48148*56
11	48132	48132	48122	48096	48062	48048	48030	48022	48016	48122*56
12	48006	47992*10	47996	47978	47946	47902	47878	47844	47802*52	48008*58
13	47794	47790*8	47802	47796*20	47772*28	47776		47778	47790*50	47798
14	47852	47890	47920	47960*20	47976	47956	47904	47836	47766	47712
15	47650*4	47632*10	47634	47622	47622	47632	47656	47688	47722	47776
16	47814	47848	47886	47928	47956	47968*32	47962	47968*44	47958	47932
17	47894*4	47886*8	47882	47876	47868	47856	47838	47820	47808	47800
18	47786*4	47776	47740	47714	47684	47656	47646	47652	47696	47738
19	47786*4	47790*8	47782	47752			47554	47494	47476	47488
20	47522	47574	47648	47732	47800	47852	47886	47894	47876	47852
21	47828	47800	47780	47772	47772	47774	47778	47776	47768	47756
22	47746	47746	47754	47758	47746	47704	47640	47594	47578	47570
23	47556	47538	47524	47514	47502	47488	47472	47454	47428	47404

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 5- 7-1973
(DAY NO 186)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 6- 7-1973
(DAY NO 187)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 7- 7-1973
(DAY NO 188)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	46282	46296	46316*14	46318	46306	46270	46222	46192	46152*52	46130*58
1	46136	46128	46118*16	46116	46112	46124*34	46122	46164*46	46176*50	46182
2	46188	46186	46178*14	46172	46160	46174*32	46184	46200	46238	46266*56
3	46266*2	46254	46212	46174	46122	46084	46030	45982	45944	45902
4	45886*2	45884	45886*14	45890	45898	45912*32	45946*40	45942	45952	45934
5	45904	45850*10	45852	45842	45846*26	45862*34	45860	45904*46	45914*50	45922
6	45926	45916*10	45914	45906*20	45890*28	45896	45894	45898	45916	45956
7	46006	46062*10	46060	46086	46102	46116*32	46122	46124	46126	46128
8	46152	46182	46222				46304	46290		
9										
10										
11										
12										
13										
14										
15										
16					46166	46178	46176*38	46152*46	46142*52	46136
17	46120	46104	46094	46086	46082	46086	46096	46112	46132	46142
18	46146	46144	46136	46124	46114	46114	46112	46110	46092	46082
19	46042	46010	45996	45984	45974*26	45966	45944*38	45920	45910	45896
20	45878*4	45772*10	45874	45878	45886*28	45880	45892*38	45906	45916	45938*58
21	45930	45948	45954*16	45946*22	45938	45916	45886	45852	45814	45784
22	45762	45752	45756	45766	45782	45804	45832	45866	45898	45928
23	45946	45954	45952	45940	45942	45932	45920	45904	45886	45862

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 8- 7-1973
(DAY NO 189)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	45846	45836*10	45834	45834	45834*26	45826*34	45824	45832*46	45830	45838
1	45838*2	45836	45838	45830	45822	45806	45778	45746	45714	45690
2	45672	45656*8	45646*14	45638*20	45630	45620	45608	45600	45602	45612
3	45622*2	45636	45646*16	45640	45656	45676*34	45672	45690*44	45706	45720
4	45728	45744*8	45754	45740*22	45746	45726*32	45716	45710	45710*52	45700
5	45706	45700	45698*14	45704*20	45716*26	45722	45726*38	45722	45736*52	45730
6	45754	45762*8	45776	45786				45798*44	45798*50	45788*58
7	45774*4	45764*8	45754	45736	45720	45714	45714	45724	45734	45732
8	45742	45740	45732	45736	45734	45736	45730	45730	45744	45746
9	45756		45786*16	45770*22	45750*28	45752	45722	45708	45688	45668
10	45646*2	45638*8	45634	45620	45626	45624	45622	45622	45626	45636
11	45642	45646		45640	45636	45628	45612	45582	45552*52	45542
12	45512	45492	45472	45452	45428	45460*32	45458	45460*44	45458	45456
13	45440*4	45448	45450	45450	45442*28	45444	45454*38	45462*44	45482*50	45516*58
14	45524*2	45536*8	45540*14	45566*22	45560	45578	45572	45582	45580*50	45594
15	45598	45590*10	45580*16	45576*22	45570	45556	45542	45552	45552	45548*56
16	45538*4	45520*10	45528	45524	45522	45538	45548	45552	45550	45536
17	45500	45482	45464	45452	45458*28	45456	45456	45462	45474	45482
18	45494*2	45502*8	45520	45542	45564	45562	45562	45556	45556	45564
19	45570	45592	45596	45592	45572	45552	45538	45510	45512	45502*58
20	45512	45512	45528	45532	45548	45546	45522	45506	45480	45456
21	45436	45412	45372	45352	45348	45342	45322	45254	45202	45200
22	45230	45270	45252	45152	45090	45202	45464	45630	45652*50	45684
23	45760	45810	45770	45682	45696*28	45694	45650	45514	45476	45526

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 9- 7-1973
(DAY NO 190)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	45570*2	45596	45646*14	45636	45608	45584	45528	45464	45400	45342
1	45280*4	45284	45266*14	45266*22	45274*26	45286	45302	45320	45338	45358
2	45380	45412*8	45428	45452	45482	45476	45418	45352*44	45440	45748*58
3	45742	45622	45516	45458	45394	45332	45290*38	45296	45302	45294
4	45282	45270	45280	45262*22	45252	45226	45222	45232	45286*50	45286*56
5	45268	45200	45140	45074	45020	45034	45082	45162	45242	45310
6	45392	45466	45516*16	45510	45518	45500*34	45502	45436	45346	45242*58
7	45254	45312	45400*16	45396	45352	45314*32	45306	45282	45270	45374
8	45508*2	45462	45264	45112	45070	45056	45048	45068	45110	45130
9	45130*2	45150	45182	45212	45224	45194*34	45182	45196*46	45192	45204
10	45188	45120								
11										
12	45096	45072*8	45052	45040	45042	45078	45286	45236	45184	45132
13	45346*4	45344	45336*14	45322	45300	45278	45142	45214	45262	45302
14	45102	45140	45160	45122*22	45114	45092	45232	45178	45110	45094
15	44740*4	44758	44792	44896	45044	45136	45202	45066	45028	44912
16	45482	45502	45462	45394	45322	45300	45292	45224	45254	45376
17	45244	45130	45024	44970	45040	45206	45260	45312	45312	45282
18	45202	45176	45114	45070	45076	45106	45128	45272	45244	45226
19	45074	45102	45142	45216	45262	45286	45272	45182	45074	45014
20	44954	44916	44944	45032	45150	45252	45290	45290*46	45296	45282
21	45254*4	45242	45244	45260	45298	45334	45352	45362	45372	45360
22	45336	45338	45352	45352	45310	45232	45134	45012	44946	44912
23	44910	44910	44934	44972	45034	45086	45110	45144	45172	45172

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 10- 7-1973
(DAY NO 191)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	45178	45222	45262	45318	45366	45394	45394	45312*46	45320	45380
1	45432	45392	45298	45214	45192	45240	45292*40	45288	45212	45052
2	44900* 4	44918	44930	44892*22	44898	44894	44884	44846	44808* 50	44816
3	44854	44918	45014*16	45018*20	45006	44970	44926	44872*44	44868* 52	44862
4	44846	44800	44740	44730	44782	44834	44870	44926	44988	45050
5	45100	45144	45202	45274	45374	45502*34	45492	45464	45432	45370
6	45300	45252	45198	45148	45110	45064	45024	44992	44974	44942
7	44900	44874	44992	45134	45092	45046	45086*40	45082	45036	44988
8	45044	45118	45068	45022	45258	45452	45396	45382	45312	45330
9	45324	45186	45080	45092*22	45094	45170	45102	44822*46	44836	44974
10	44876	44642	44478	44292	44192	44300	44446	44532	44614	44692
11	44772	44860	44950	45032	45094	45092	45070	45046	45046	45100
12	45206	45308	45396	45448*20	45420	45332	45218	45100	45052*50	45032
13	44972* 4	44970* 8	44974	45012	45042	45046	45012	44972*46	*50	45020
14	45092	45172	45274	45406	45476	45520	45690	45764	45684	45470
15	45396	45396	45374	45222	44944	44732	44676	44452*44	44472	44546
16	44902* 4	44890	44690*14	44732	44952	45312	45574*38	45612*44	45462	44462*58
17	44498	44708	44876	44956	44934	44868	44836	44910	45052	45190
18	45294	45312	45256	45160	45076	45084	45134	45080	45050	44960
19	44920	44948	45102	45202	45150	45104	45066	44956	44846	44774
20	44824	44986	45070	45084	45078	45064	45042	45002	44952	44916
21	44902	44904	44942	45014	45072	45128	45172	45204	45228	45238*56
22	45224	45162	45082	45024	44948	44882	44862	44862	44852	44832
23	44848	44852	44862	44846	44810	44830	44872	44908	44932	44966

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 11- 7-1973
(DAY NO 192)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44990	45024	45074	45096*22	45084	44956		45020	45138*52	45134
1	45070	44932	44964	44988	44950	44862*34		44876	44950*52	44942
2	44906	44852	44842	44880	44906	44892	44866	44876	44910	44954
3	44988	45024* 8	44990	44952	44984	44976	45040	45156	45166	45146
4	45178* 2	45160	45090	44972*22	44980*26	45000	45016	44974	44884*52	44880
5	44936	45012	45094	45196*22	45192	45164	44992	44706	44532	44608
6	44802	44986	45088*14	45040	45010	44996	45092	45194	45124	44986
7	44888	44856	44868	44942*20	44910	44848	44772	44712	44670*50	44700
8	44796	44874	44900	44906	44816	44858	44910	44928	45002	45000
9	44962	44936*10	44932	44934*20	44944*26	44938				
10					44802	44762	44666*44	44710*52	44706*56	
11	44718	44776	44828*16	44824	44794	44746	44704	44674*46	44676	44682
12	44716	44804	44894	44932	44948	44942	44922*40	44920	44924	44888
13	44824* 4	44812	44796	44756	44734	44724	44718	44716	44710	44678
14	44644	44630	44640	44668	44714	44772	44838	44882	44914	44986*58
15	44984	44942	44900*14	44918	44972*26	44956	44856	44764*44	44792	44858
16	44936* 4	44934								
17										
18										
19										
20			45048				45276	45320	45302	
21	45182	45154	45138	45120	45124	45134	45138	45146	45172	45184
22	45182	45172	45158	45166	45208	45276*34	45272	45256	45220	45184
23	45142	45094	45078	45066	45052	45032	45008	44976	44936	44908

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 12- 7-1973
(DAY NO 193)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44862	44778*10	44784	44826	44860	44896	44922*38	44910	44874*50	44884
1	44908* 2	44904	44902	44884	44856*26	44866	44896	44892	44880*50	44884
2	44904	44932	44952	44960	44946	44926	44910	44924	45010*52	45006*56
3	44994	44976	44970	44964	44946*26	44950	44956	44964	44976	44978
4	44986	45006	45020	45024	45026	45036	45066	45110	45134	45134
5	45136	45160	45178	45150	45104	45056*34	45062	45112	45132	45236
6	45430* 4	45428	45194*16	45204	45072*26	44982*32	44866*38	44980	45116	45244
7	45450	45566	45518	45396	45256	45292	45340	45384	45456	45492
8	45438	45378	45322	45262	45240	45278	45342	45388	45438	45520
9	45592	45616	45552	45410	45278	45226	45218	45196		45174
10	45180* 4	45182	45194	45228*20	45218	45186	45186	45214*46	45204*50	45242
11	45370	45334	45322	45338	45354	45364	45334	45264*46	45268	45366*58
12	45364* 4	45354	45280	45170	45010*28	45024	44938	44874	44824	44870
13	44962* 4	44924	44846	44952	44846	44940	44856		42094	
14										
15										
16		45416	45316	45194						
17										
18								45128		
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 13- 7-1973
(DAY NO 194)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3	44616	44650	44694	44730	44934*22	44940	44936	44854	44700	44544*52
4	44522	44442*10	44452	44474	44710	44632	44488	44380	44414	44486
5	44710	44704	44730	44788	44498	44570	44728	44846*44	44826	44750
6	44558	44674	44764	44870	44868	44906	44866	44758	44616	44532*56
7	44750	44784	44840	44908	44954*26	44974	45114*40	45090	44922	44796
8	44908	44874	44826	44772	44998	45044	45010	44974	44966	44940
9	44666*4	44664	44670	44672	44726	44698	44694	44712	44714	44698
10	44990	45238*8	45180	44982	44676	44684*32	44694	44722	44770	44824
11	44550*4	44552	44446*16	44448	44890	44852	44734	44658*46	44656	44620
12	44512*4	44520	44616	44672	44672	45144*32	44970	44762	44674	44604
13	44766*2	44772	44768	44716	44622	44580	44654	44740	44788	44766*58
14	44730*4	44722	44596	44426	44632	44542	44478	44396*44	44430	44544
15	44470	44436	44464	44538	44382	44360	44400	44442	44474	44506
16	44850	44846*10	44842	44874	44612	44672	44752	44830	44896*52	44880
17	44744	44774	44804*14	44812*20	44912	44930	44884	44800	44758	44734
18	44906	44924	44930	44968	44824	44834*34	44832	44854	44840	44852
19	44862*4	44844	44748	44764	45044	45098	45032	44930	44874	44880
20	44716	44674	44648	44600	44850	44888	44874	44800	44710	44706
21	44990	45040	45086	45092	44632	44682	44736	44814	44892	44942
22	45082	45012	45060	45088	45082	45048	45036	45052	45100	45132
23	45232	45142	44982	44938	45046	45014	45014	45046	45110	45202
					44904	44822	44770	44746	44716	44712*58

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 14- 7-1973
(DAY NO 195)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44722	44754	44730	44646	44524	44416	44378	44414	44512	44620
1	44722	44792	44846	44874	44872*28	44876	44850	44828	44806	44804
2	44808	44808*10	44808*16	44814*22	44812	44846	44888	44922	44966	45000
3	45032	45048	45032	45006	44964	44924	44872*40	44876	44892	44932
4	44992	45042	45092	45142	45164	45142	45078	44998	44926	44882*56
5	44894	44936	44960	44980	45026*28	45028*32	45002	44922*46	44928	44960
6	44992*2	45016*10	45014	44992	44972	44984	44952*40	44954	44988	45024*58
7	45014*2	44992	44952	44924	44882	44772	44632	44562*46	44554	44514
8	44472*2	44492	44534	44550	44560	44496	44368	44324	44372	44498
9	44570	44684*8	44686*16	44684	44674*26	44664	44642	44612	44584	44572*56
10	44596	44636	44686	44720	44758	44762	44714	44620	44540	44502
11	44502	44500	44486	44492	44592	44704	44738	44702	44652*52	44676*56
12	44662	44618	44654*14	44562*22	44592	44770*32	44712	44510*46	44528	44656
13	44746	44766	44738	44702	44734	44812	44912	44970	44982	44984
14	45008	45048*8	45030	45006	44972	44952	44922	44894	44868*52	44864
15	44822	44804	44856	44944	45004*28	44994	44944	44904*46	44896	44868
16	44784*4	44786	44826*14	44816	44776	44716	44620*40	44624	44592*52	44582
17	44556	44574	44644	44694	44706	44664	44532	44306	44122	44038
18	44302	44586	44700	44670	44740	45002	45142	45004	44680	44514
19	44452	44350	44324	44522	44794	44864	44820	44754	44664	44560
20	44452	44304	44078	43962	44082	44244	44432	44500	44354	44264*58
21	44252	44142	43938	44026	44192	44262	44302	44312	44322	44330
22	44366	44420	44436	44392*20	44398	44440	44526	44612	44660	44642
23	44526	44392	44250	44242	44352	44432	44380	44328	44310	44252

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 15- 7-1973
(DAY NO 196)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44232	44322	44412*14	44420*20	44446	44486	44522	44658	44830	44960*56
1	44944	44914	44862	44826	44826	44862	44912	44966	45024*52	45020
2	44986	44956	44882*16	44870*22	44884	44930	45022*40	45016	44976	44900
3	44872*4	44870	44884*16	44874	44820	44746	44710	44764	44852	44966
4	45008	44962	44886	44848*20	44846	44846*34	44842	44876	44900	44926
5	44972	45012*8	45004	44988	44986	44940	44792*40	44804*44	44802	44760
6	44684	44670*8	44704	44736	44712	44634*32	44690	44868	45096*50	45064
7	44962*2	44986	45014	44996*20	45006	45052*34	45050	45076	45076	45028
8	44946	44874	44846	44852	44874	44854	44766	44750	44808	44730
9	44670*2	44722	44792	44882	44930	44944	44946	44954	44976*50	44956*58
10	44952	44954	44950	44926	44882	44852	44836*38	44822	44824	44828*58
11	44820	44848	44902	45022	45210*28	45202	45076	44844	44678	44630
12	44682	44786	44900	45004	45064	45092	45094	45052	45004	44966
13	44920	44902	44956	45040*20	45010	44904	44734	44694	44824*50	44804
14	44670*2	44690	44668*16	44576	44782	45224*32	45054	44620	44610	44744
15	44932	45034	44950	44738	44572	44530	44538	44562	44622	44660*58
16	44656*2	44662	44726	44810	44874	44902	44930	44978	45016	45054
17	45088	45082	45034	44974	44912	44872	44836	44806	44782	44776
18	44744	44714	44680	44652	44628	44596	44572	44566	44512	44394
19	44282	44242	44306	44374	44476	44604	44662	44696	44712	44716
20	44700	44672	44632	44602	44632	44690	44726	44742	44796	44840
21	44920	44932	44898	44874	44840	44862	44838	44712	44566	44410
22	44364	44440	44530	44730	44902	44950	44744	44546	44506	44512
23	44554	44590	44654	44702	44710	44700	44706	44742	44784	44842

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 16- 7-1973
(DAY NO 197)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44898	44956	45022	45078	45070*28	45072	45060	45056	45058	45052*58
1	45044	45004	44952*16	44952	44990	45044	45058	45042*46	45032*50	45044*56
2	45026	44986	45006	44956	44896	44758	44632	44604	44462	44334*56
3	44384	44612	44910	45190	45376	45426	45376	45288	45166	45042
4	44940	44852	44780*14	44784	44814	44834	44862	44900	44940	45006
5	45110	45158	45096	45034	44992	44938	44914	44912	44864	44780*58
6	44792	44832	44886*14	44860	44822	44802	44764	44706*46	44702	44700*56
7	44714	44746*8	44718	44590	44474	44430	44416*40	44414	44404*52	44396
8	44320	44230	44302	44504	44680	44798	44918	45034	45058	45138
9	45168	45136	45124	45164	45282	45414	45498*38	45450	45282	45106
10	44992	44924	44880*14	44902	44942	44990	45036	45014*44	45032	45040
11	44916	44788*8	44816	44866	44862	44844	44806	44740	44652*52	44666
12	44716	44698	44652	44626	44322	44274	44298	44374	44462	44500
13	44476	44386	44268	44182	44192	44234	44294	44352	44412	44458
14	44512	44622	44730	44830	44936*26	44908	44690	44412	44222	44120
15	44120	44180	44302	44362	44354	44314	44296	44320*44	44346	44382
16	44584	44788*10	44776	44704	44706	44756	44752	44730	44704	44672
17	44634	44582	44546	44490	44424	44374	44334	44280	44230	44190
18	44180	44254	44440	44644	44840	44992	45030	44968	44846	44746
19	44684	44696	44784	44948*22	44936	44842	44754	44706	44622	44458
20	44476	44482	44432	44386	44406	44516	44542	44496	44534*52	44420*58
21	44424	44466	44472	44718	44748*28	44726	44576	44288	44530	44766
22	44920	44884	44850	44920	44924	44862	44822	44768	44678	44598
23	44556	44562	44622	44676	44694	44720	44742	44730	44684	44598

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 17- 7-1973
(DAY NO 198)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44460	44340	44304	44344	44410	44486	44568	44642	44710	44776
1	44828* 4	44826	44796	44754	44710	44668	44626	44612	44602	44618
2	44666	44684	44632	44488*22	44490	44520	44572	44694	44766	44738
3	44696	44652	44606			44478	44452	44474	44530	44584
4	44608	44566	44490	44436	44422	44428	44436	44424	44380	44350
5	44390	44490	44592	44656	44694	44628	44494	44644	45070*50	45006
6	44754	44590	44552	44568	44622	44698	44802	44874	44870	44662
7	44544* 4	44546	44632*16	44628	44576	44550	44644*38	44610	44512*50	44440
8	43990* 2	44052	44246	44390	44546	44600	44654	44604	44464	44346
9	44296	44430	44584*14	44548	44358	43976*34	43992	44176	44394	44476
10	44394* 4	44404	44454	44454	44470	44504	44572	44514	44352*50	44414
11	44760	45106	45200	45056	44744	44456*32	44470	44456	44424	44352*50
12	44356	44356	44336	44320	44282	44244	44178	44104	44074	44038*50
13	44040	44058	44088	44172	44254	44322	44438	44562	44642	44750
14	44854	44798	44694*16	44696	44744*26	44718	44648*40	44654	44734	44828*56
15	44770	44600	44448	44330*20	44380	44590	44702	44644	44506	44456
16	44576	44874	45010	44892	44700*28	44724	44868	44738	44360	43984*58
17	44024	44356	44662	44888	44974	45006	45034	45038	45024	45008
18	45010	45022	45002	44956*20	44972	45010	45006	44980	44964	44960
19	44950	44872	44742	44676	44738	44806	44868	44910	44880*52	44878
20	44830	44722	44582	44504	44504	44510	44538	44544	44568	44594
21	44638	44656	44628	44628	44638	44644	44646	44646	44656	44692
22	44732* 2	44726	44686	44638	44624	44618	44608	44602	44638	44686
23	44722	44768	44812	44832	44836	44838	44876*38	44842	44774	44752

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 18- 7-1973
(DAY NO 199)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44742	44654* 8	44668	44694	44628	44580	44582	44616	44692	44786
1	44888	44940	44926	44910	44920*28	44918	44918	44934	44960	44990
2	44974	44966	44946	44906	44860	44846	44854	44824	44824	44850
3	44870	44850	44826	44826	44834	44842	44870	44930	44996	45044
4	45062	45062	45052	45030	45000	44962*32	44956	44984	45028	45042
5	45024	45018	45046*16	45040	44954	44890	44876	44894*44	44882	44818
6	44724	44684	44726	44788	44784	44708	44572	44472	44418	44388
7	44442	44518	44562	44568	44574	44588	44646	44708	44738	44764
8	44782	44798	44828	44880	44942	44976	44976	44970	44934	44864
9	44788	44752	44738	44708	44690	44682	44604	44518	44460*50	44478
10	44546	44640	44736	44844	44924*28	44922	44918	44936	44976	45034*58
11	45026* 4	45030	45054	45010	44952	44920	44898	44872	44862	44858
12	44852	44850	44844	44804	44706	44578	44554	44572	44620	44694
13	44738	44772	44814	44974*22	44970	44938	44890	44838	44806	44780*58
14	44782	44816	44840	44834	44824	44810	44792*40	44794	44832	44916
15	44986	45000	45002	45006	45016	45026	45010	44956	44896	44864
16	44860	44868	44882	44876	44866	44888	44954	45000	44964	44878
17	44818	44842	45036	45210	45290	45358	45424	45382	45292	45194
18	45126	45092	45144	45270	45352	45390	45408	45418	45454	45406
19	45278	45106	44922	44798	44692	44564	44460	44678	44876	44956
20	45024	45100	45134	45164	45170	45078	44956	44926	44926	44886
21	44796	44710	44660	44624	44578	44492	44400	44378	44424	44466
22	44482	44524	44594	44726	44604	44630*32	44594	44498	44440	44434
23	44494	44538	44602	44646	44720	44772	44784	44784	44798	44824

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 19- 7-1973
(DAY NO 200)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44860	44892	44920	44946	44950	44940	44960	45056	45214	45454*58
1	45436	45212	44760*16	44772	45170	45444	45262	44994	44848	44758
2	44676	44642	44652	44692	44768*26	44740	44632	44508	44282*52	44286
3	44332	44392* 8	44342	44106	44306	44524	44638	44676	44722	44826
4	44938	45020	45070*14	45022*22	45028	45054	45034	45140*46	45128	44956
5	44776	44704	44684	44702	44768	44832	44780	44634	44494	44444
6	44438	44460	44554*16	44552	44504	44398*34	44414	44562	44720	44798
7	44798	44746	44692	44630	44598	44686	44836	44942	44966	44942
8	44926	44918	44956	44968	44866	44640	44558	44668	44810	44914
9	44978* 2	44952	44854	44770	44690	44616	44586	44614	44686	44766
10	44828* 4	44824	44806	44784	44766	44782	44836	44874	44912	44974
11	45036* 4	45028	44976	44910	44880	44888	44930	45014	45092	45146
12	45178	45194	45206	45210	45220	45228*32	45226	45230	45248	45258*50
13	45250	45214	45132	45030	44970	44952	44948	44948	44948	44924
14	44868	44794	44764	44764	44764	44772	44778	44790	44800	44814
15	44844	44896	44954	45030	45114	45140	45078	44968	44894	44834
16	44788	44756	44726	44732	44756*26	44748	44708*40	44714	44762	44816
17	44842	44836	44830	44858	44880	44874	44850	44808	44798	44854
18	44938	44978	44982	44968	44924	44910	44890	44872	44866	44874
19	44886	44872	44868	44872*20	44870	44848	44824	44810	44832	44872
20	44890	44896	44902	44896	44862	44818	44808	44828	44830	44802
21	44750	44762	44802	44812	44818	44838		44868	44872	44880
22	44900	44912	44912	44908	44910	44914	44912	44916	44910	44928
23	44984	45020	45060	45094	45128	45126	45082	45010	45010	45034

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 20- 7-1973
(DAY NO 201)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	45042	45022	45002	45012	45032	45030	45010	44964	44906	44874
1	44888	44912	44914	44908	44894	44878	44870	44854	44822	44788
2	44774	44770*10	44772	44772	44772	44782	44816	44846	44848	44830
3	44820	44824	44834	44844	44850	44832	44788	44740	44710	44676
4	44612	44538	44498	44464	44448	44498	44696	44756	44792	44828
5	44784* 2	44804	44880	44986	45078	45118	45132	45144	45158	45162
6	45152	45140	45122	45086	45030	44980	45074	45132	45040	44748*58
7	44758	44988* 8	44860	44684	44632	44602	44582*38	44628	44836	45034*58
8	45018	44876	44694	44562	44484	44422	44368	44372	44470	44618
9	44746	44784	44734	44656	44574	44486*32	44498	44628	44794*50	44778
10	44614	44442* 8	44458	44518	44606	44670	44654	44678	44744	44792*56
11	44788	44772	44742*14	44714	44684	44652	44630	44610	44652	44700
12	44724	44782	44898	45014	45094	45140*32	45120	45036*46	45038	45056
13	45106	45128	45086	45050	45102*26	45082	44958	44808	44688	44478*56
14	44510* 2	44468	44556	44600	44748	44856	44962	45036*44	44978	44794
15	44586	44508	44508	44552	44602	44628	44636	44636	44628	44622
16	44616* 2	44620	44622	44608	44584	44558	44546	44550	44556	44554
17	44578	44620	44632	44612	44584	44548	44510	44474	44442	44426
18	44436	44466	44494	44514	44526	44528	44524	44518	44512	44498
19	44494	44510	44536	44560	44572	44578	44572	44564	44490	44426
20	44376	44358	44374	44400	44418*26	44412	44378	44326	44282	44272
21	44290	44314	44334	44352	44382	44420	44464	44496	44518	44524
22	44524	44522	44510	44486	44456	44426	44410	44412	44422	44430
23	44436	44440	44440	44436	44426	44410	44394	44378	44366	44362

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 21- 7-1973
(DAY NO 202)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44364	44368	44374	44382	44392	44400	44402	44398	44390	44378
1	44364	44358	44348	44338	44330	44324	44324	44320	44310	44292
2	44266	44238	44206	44180	44158	44144	44136*40	44138	44142	44148
3	44158	44172	44188	44202	44214	44226	44244	44264	44280	44290
4	44296* 2	44294	44290	44288	44282	44276	44266	44258	44250	44244
5	44238	44230	44222	44216	44210	44204	44202	44196	44196	44198
6	44200	44208	44210	44216	44224	44230	44236	44240	44238	44232
7	44226	44222	44222	44222	44218	44212	44210	44210	44216	44228
8	44244	44258	44264	44258	44248	44236	44222	44200	44178	44164
9	44154	44148	44148	44152	44156	44162	44166	44170	44170	44166
10	44154	44142	44128	44114	44098	44086	44076	44078	44090	44108
11	44118	44120	44112	44094	44078	44072	44080	44094	44110	44134
12	44164	44194	44220	44240	44248	44250	44250	44252	44264	44276
13	44298	44318	44332	44334	44322	44302	44292	44294	44310	44342
14	44364	44356*10	44358	44400	44504*26	44454	44334	44280	44266	44256
15	44238	44202	44168	44148	44142	44160	44160	44140	44128	44126
16	44142* 4	44138	44114	44100	44106	44122	44124	44122	44132	44150
17	44170	44194	44218	44236	44254	44280	44296	44290	44274	44254
18	44226	44188	44136	44104	44104	44134	44172	44208	44236	44246
19	44240	44236	44240	44244	44238	44234	44236	44240	44246	44260
20	44276	44290	44290	44276	44258	44242	44226	44210	44186	44156
21	44130	44118	44128	44154	44178	44196	44208	44216	44220	44202
22	44186	44188	44200	44236	44264	44266	44244	44214	44200	44210
23	44218	44168*10	44170	44204	44266	44320	44334	44334	44324	44304

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 22- 7-1973
(DAY NO 203)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44278	44260	44254	44250	44256	44266	44278	44280	44288	44298
1	44294	44282	44276	44284	44306	44320	44326	44324	44322	44320
2	44316	44306	44284	44252	44202	44126	44018*40	44022	44064	44120
3	44260	44342* 8	44318	44266	44218	44178	44148	44130	44122	44118
4	44122	44130	44134	44138	44136	44132	44132	44138	44150	44166
5	44174	44166	44148	44136	44120	44096	44068	44054	44066	44082
6	44066	44070	44112	44140	44148	44116	44054*38	44092	44186	44268
7	44306	44282	44226	44140	44030	43896	43786*38	43800	43824*52	43822
8	43792	43854	44058	44102	44048					
9										
10										
11										
12										
13	44072	43922* 8	44036	43970	44094	43928	43702	44460*46	44430	44222
14	43894	43972	43972	44014	44074	44114	44140	43540*44	43600	43764
15	44026* 4	44032	44062	44122	44198*26	44026*34	44150*40	44120	44042	44072
16	44028	44034	44032	44028	44028	44014	43986	43978	43960*50	43968
17	43954	43934	43928	43924	43926	43940	43934	43918	43914	43910
18	43900	43896	43910	43900	43936	43936	43926	43914	43928	43948
19	43968	43980	43950	43908	43870	43842	43826	43814	43818	43828
20	43852	43880	43888	43882	43866	43804	43730*38	43742	43770	43836*58
21	43832	43842	43866	43902	43924	43906	43852*40	43858	43872	43908
22	43922	43954	43986	44032	44074	44062	44078*40	44072	44072	44020
23	43964	43948	43922	43944	43992	43998	44044	44064	44030	43986

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 23- 7-1973
(DAY NO 204)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43972	43960	43932	43952	43960*26	43976	43988	43992	43990	43992
1	43998* 4	43992	43946	43892	43834	43788	43752*38	43744	43740	43722
2	43744	43776	43798	43794	43794	43792*32	43802	43824	43848*50	43832
3	43844	43840	43856	43868	43882	43894	43886	43856	43802	43752
4	43728	43732	43742	43740	43752	43760	43784	43800	43810	43806
5	43822	43854	43874	43908	43966	43982	43984	43996	44020	44076
6	44098	44084	44046	43990	43940	43892	43846	43812	43820	43972
7	44128	44214	44252	44240	44180	44152	44140	44110	44294	
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 26- 7-1973
(DAY NO 207)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	44182* 2	44018*10	32896*48	32896*48	32896*48	32896*48	32896*48	32896*48	32896*48	32896
13	43910	43932	44088	44018	43844	43678	43568	43612	43724	43830
14	44076* 2	44080	43978	44046	44090	44118	44140*38	44134	44118	44106
15	44044	44118* 8	44098	44108	44114	44102	44016	44122	44034	44004
16	44038	44046	44082	43886*22	43888	43924	43934	43960	43998	44024
17	43996* 4	44072	44112	44140	44160	44160	44146	44118	44074	44036
18	44036	43998	44006	44050	44096	44112	44098	44050	44028	44030
19	44012	44038	44024	43990*22	43994	44014*32	44012	44006	44010*50	44008
20	44078	44024	44012	43982	43952	43908	43926	43942	44004	44056
21	44130* 4	44132	44084	44106	44114*26	44114	44126	44142	44142	44136
22	44120	44118	44130	44116	44086*26	44076*34	44072*38	44080	44102	44118
23	44044	44032	44102	44100	44094*26	44090	44096			44052
			44028	44026	44018	44026*32	44022*38	44028	44032	44036

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 27- 7-1973
(DAY NO 208)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
0	44042	44062	44104*16	44102	44078*26	44110*34	44100	44030	43992	44012
1	44028	44018	43994	43976	44006	44042	44060	44094	44124	44152*56
2	44138	44114* 8	44120	44142	44164	44196	44222	44246	44270	44284
3	44294* 2	44288	44262	44236	44216*26	44228*34	44226	44208	44192	44184
4	44176	44156	44136	44136	44160	44202	44230	44260	44278	44260
5	44232	44204	44190	44194	44210	44244	44260	44242	44228	44222
6	44218	44226	44246	44264	44284	44270	44240	44218	44216	44232
7	44244	44252	44276	44328	44388	44418	44384	44236*46	44240	44330
8	44400	44368	44306	44276	44284	44312	44348	44334	44304	44298
9	44358	44414	44464	44470	44436	44390	44362*38	44370	44378	44372
10	44380	44412*10	44408	44422	44478	44554	44572	44536	44542	44588
11	44606	44580	44524	44478	44498	44542*32	44526	44440	44398	44440
12	44444	44470	44506	44416*22	44418	44460	44494	44450	44402	444614
13	44692	44780	44866*16	44864	44778	44672	44574	44488	44474	44368
14	44308	44494	44752	44878*20	44796	44658*32	44720	44526*44	44744	45050
15	45006	44754	44526	44228	44022*26	44080	44396	44654	44766	44564*58
16	44342* 2	44628*10	44646*16	44526*22	44544	44398*32	44472	44664*46	44676*52	44644*56
17	44800	44870	44790	44852	44552	44358	44496	45018	44600	44636
18	44658	44782	44802	44986	44990					

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 28- 7-1973
(DAY NO 209)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

Continued Day 213

C10

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 1- 8-1973
(DAY NO 213)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14	45186	44838*10	44784	44670	44536*28	44438*34	44716*40	44712	44592	44528
15	44420* 2	44442	44506	44608	44678	44750	44806	44806	44804	44844
16	44892	44840	44742	44642	44486	44286*34	44300	44434*44	44334	44178
17	44382	44698	44862	44784	44634*28	44640	44748*38	44642	44436	44306
18	44134	44254	44394	44534	44734*26	44698	44558*40	44566	44602	44652
19	44616	44558	44508	44596*20	44554	44496	44608	44750	44788	44814
20	44764	44632	44452	44252	44090	44032	44068	44162	44278	44378
21	44436	44458	44474	44506	44550	44566	44540	44498	44480	44480
22	44474	44468	44480	44522	44554	44558	44548	44538	44530	44500
23	44444	44370	44298	44244	44224	44286	44406*40	44402	44362	44336

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 2- 8-1973
(DAY NO 214)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	44332	44328	44314*14	44314	44306	44300	44312	44356	44412	44430
1	44392	44338* 8	44364	44474	44524	44470	44370	44316	44338	44370
2	44352	44362	44382	44376	44330	44270	44226	44250	44296	44328
3	44326	44324	44290	44228	44226	44246	44262	44308	44354	44284
4	44196	44162	44134*14	44146	44194	44236*32	44228	44216	44228	44248
5	44290* 4	44284	44218	44138*20	44150	44192	44242	44276	44254	44196
6	44158	44150	44158	44170	44174	44166	44154	44150	44150	44134
7	44100	44076	44088	44114	44124	44124	44138	44182	44206*50	44194
8	44166	44110	44056	44038	44082	44156	44204	44208	44190	44176
9	44180	44188	44180	44140	44082	44070	44092	44114*44	44110	44102
10	44108	44132	44154	44136	44098	44072	44058	44036	43998	43968*48
11	43970	43986	44012	44032*20	44020	43996	43974	43948	43930	43930
12	43928	43916	43912	43920	43920	43946	44032	44116*44	44102	44048
13	43998	43972	43964	43958	43956	43962	43972	43982*46	43978	43964
14	43902	43870	43886	43878	43856	43832	43852	43906	43954	43962
15	43944	43934	43934	43942*20	43936	43942	43940	43946*44	43948	43960*48
16	43958	43958	43954	43954	43960	43964	43972	43968	43966	43970
17	43978	43980	43980	43986	43996	44006	44018	44024	44036	44050
18	44156	44286*10	44280	44204	44150	44150	44126	44090	44030	43958
19	43930	43918	43890	43848	43826	43826	43796	43788	43788	43768*48
20	43770	43794	43846	43908	43954	43956	43928	43900	43892	43882
21	43864	43854	43840	43836	43814	43776	43768	43806	43836	43840
22	43834	43848	43878	43904	43884	43812	43742	43696	43676	43684
23	43712	43750	43786	43810	43814	43804	43784	43728	43700	43688

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 3- 8-1973
(DAY NO 215)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43664	43646	43634	43634	43644	43662	43682	43694	43712*52	43710
1	43708	43724	43754	43732	43666	43608	43590	43606	43636	43658
2	43666	43658	43686	43796	43848	43858	43828	43744	43664	43604
3	43556	43510	43472	43436	43416	43418	43418	43404	43390	43380
4	43380	43382	43386	43388	43394	43408	43424	43444	43462	43482
5	43500	43512	43518	43532	43550	43570	43600	43638	43668	43668
6	43658	43652	43648	43654	43672	43712	43752	43804	43850	43880
7	43894	43900	43900	43906	43914	43908	43880	43816	43700	43590
8										
9										
10										
11										
12										
13	43914	43920* 8	43916	43900	43832	43846	43860	43874	43886	43902
14	43830	43808	43770	43742	43878	43860	43846	43840	43834	43828*48
15	43576	43548	43518	43486	43470	43470	43476	43480	43476	43468
16	43464	43466	43470	43478	43486	43492	43500	43508	43516	43522
17	43526	43528	43528	43528	43528	43526	43520	43518	43516	43522
18	43526	43534*10	43532	43536	43538	43540	43542	43540	43540	43538
19	43536	43532	43530	43526	43526	43518	43510	43498	43480	43456
20	43446	43452	43466	43486	43500	43506	43496	43484	43474	43466
21	43460	43442	43418	43390	43366	43344	43324	43302	43282	43264
22	43262	43266	43276	43284	43292	43302	43314	43332	43344	43342
23	43336	43328	43326	43326	43324	43318	43294	43256	43214	43176

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 4- 8-1973
(DAY NO 216)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43142	43126	43124	43140	43174	43214	43258	43296	43326	43350
1	43366	43380	43394	43408	43420	43426	43428	43432	43438	43444*56
2	43442	43422	43398	43372	43350	43330	43318	43304	43290	43278
3	43268	43254	43236	43216	43194	43178	43174	43186	43208	43226
4	43244	43268	43294	43320	43338	43350	43364	43382	43398	43410*56
5	43400	43372	43324	43274	43226	43186	43158	43144	43152	43174
6	43204	43228	43254	43270	43280	43284	43284	43288	43294	43300
7	43306	43316	43330	43352	43368	43376	43370	43352	43328	43304
8	43286	43272	43258	43244	43234	43234	43238	43240	43242	43242
9	43240	43236	43228	43214	43202*28	43204	43214	43226	43238	43240
10	43244	43252	43266	43284	43306	43326	43350	43368	43380	43388
11	43400	43420	43440	43454*22	43452	43454	43460	43468	43484	43502
12	43522	43542	43556	43562	43564	43562	43558	43548	43538	43526
13	43516	43514	43514	43522	43532	43544	43556	43566	43564	43554
14	43534	43506	43478	43450	43426	43400	43370	43342	43316	43296
15	43280	43268	43264	43264	43272	43284	43290	43286	43276	43270
16	43270	43270	43266	43262	43262	43262	43266	43272	43278	43282*56
17	43278	43270	43256	43238	43218	43200	43190	43190	43196	43208
18	43226	43244	43256	43266	43280	43296	43318	43342	43364	43372
19	43370	43360	43352	43348	43344	43342	43344	43342	43354	43366
20	43362	43350	43332	43312	43296	43288	43282	43280	43278	43278
21	43276	43278	43290	43314	43338	43360	43372	43374	43376	43380
22	43378	43380	43374	43356	43320	43284	43250	43228	43218	43222
23	43240	43264	43284	43302	43312	43316	43304	43290	43274	43260

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 5- 8-1973
(DAY NO 217)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43248	43234	43220	43216	43224	43240	43262	43290	43318	43336
1	43354	43360	43346	43322	43296	43274	43264	43258	43256	43252
2	43246	43238	43236	43236	43240	43244	43250	43254*44	43258	43258
3	43258	43258	43256	43260*22	43258	43258	43254	43250	43246	43240
4	43236	43234	43232	43228	43228	43226*34	43224	43224	43226	43226*58
5	43224	43222	43220	43218	43218	43216	43214	43210	43208	43206
6	43202	43192	43176	43152	43128	43102	43082	43068	43058	43052
7	43052	43054	43054	43052	43044	43032	43020	43010	43006	43010
8	43014	43020	43028	43036	43046	43054	43062	43062	43058	43052
9	43044	43036	43028	43026	43028	43032	43030	43030	43026	43026
10	43024	43030	43042	43054	43068	43082	43098	43114	43132	43154
11	43170	43184	43198	43208	43218	43226	43234	43240	43242	43240
12	43240	43244	43248*14	43248*22	43244	43240	43236	43230	43232	43236
13	43244	43256	43268	43274	43276	43282	43288	43294	43296	43304*58
14	43302	43306	43318	43320	43318	43316	43302	43298	43294	43298*58
15	43310	43316	43314	43318	43314	43312	43308	43308	43310	43314
16	43312	43312	43318	43318	43318	43316	43312	43312	43316*50	43316
17	43318	43312	43312	43312	43316	43312	43312	43312	43310	43312
18	43318	43320	43324	43320	43316	43312	43308	43308	43312	43316
19	43316	43312	43314	43314	43312	43310	43310	43314	43316	43318
20	43310	43308	43307	43307	43308	43310	43312	43312	43318	43326
21	43318	43304	43312	43318	43318	43318	43320	43320	43322	43330
22	43338	43348	43352	43352	43350	43348	43348	43348	43348	43348
23	43250	43220	43192	43170	43158	43154	43150	43146	43130	43108

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 6- 8-1973
(DAY NO 218)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43080	43054	43034	43016	43000	42992	42992	43002	43018	43038
1	43060	43080	43100	43118*22	43116	43104	43082	43058	43040	43030
2	43026	43024	43024	43028	43030	43036	43048	43060	43072	43082
3	43092	43100	43106	43116	43126	43138	43152	43158	43164	43164
4	43162	43162	43158	43140	43122	43110	43110	43120	43132	43148
5	43162	43166	43150	43134	43114	43100	43134	43108	43080	43072
6	43080	43098	43116	43132	43130	43112	43078	43032	42988	42970
7	42984	43010	43022	43036	43054	43084	43120	43172	43226	43278
8	43312	43326	43334	43332	43334	43332	43314	43286	43258	43240
9	43224	43212	43202	43196	43190	43186	43184	43182*44	43186	43188
10	43192	43190	43180	43168	43150	43134	43114	43100	43088	43080
11	43076*4	43074	43076	43078*20	43076	43078	43082	43092	43108	43130
12	43154	43180	43204	43230	43254	43278	43296	43312	43326	43336
13	43348	43358	43362	43360*22	43362	43360	43360	43370	43376	43382
14	43380	43370	43356	43338	43324	43306	43284	43264	43244	43228
15	43358	43334	43310	43296	43286	43280	43284	43294	43304	43314
16	43320	43324	43322	43308	43292	43274	43258	43244	43234	43228
17	43226	43222	43214	43200	43188	43178	43174	43176	43186	43202
18	43222	43248	43272	43290	43308	43316	43314	43300	43276	43244
19	43210	43198	43184	43180	43188	43192	43204	43218	43236	43250
20	43264	43270	43270	43260	43242	43218	43194	43172	43158	43146
21	43140	43144	43160	43196	43244	43284	43300	43290	43266	43234
22	43208	43186	43176	43174	43178	43182	43180	43162	43132	43106
23	43092	43078	43066	43056	43048	43042	43036	43034	43028	43020

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 7- 8-1973
(DAY NO 219)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43008	42998	42992	42994	43000	43006	43012	43016	43024	43036
1	43050	43060	43068	43076	43082	43088	43088	43094	43108	43124
2	43142	43154	43162	43160	43152	43140	43122	43086	43042	42992
3	42952	42926	42916	42910	42906	42904	42908	42924	42944	42966
4	42992	43016	43036	43054	43076	43102	43126	43136	43136	43130
5	43126	43122	43120	43118	43110	43092	43064	43034	43004	42974
6	42952	42938	42936	42946	42964	42990	43024	43060	43098	43128
7	43144	43150	43144	43128	43110	43086	43062	43036	43016	43010
8	43016	43020	43020	43010	42992	42968	42948	42936	42920	42900
9	42876	42854	42844	42840	42838	42838	42838	42840	42842	42840
10	42844	42856	42870	42890	42902	42906	42900	42890	42872	42854
11	42834	42820	42814	42816	42824	42834*34	42832	42824	42810	42790
12	42772	42762	42756	42756	42768	42792	42822	42850	42870	42884
13	42894	42900	42898	42894	42884	42870	42854	42836	42820	42814
14	42816	42830	42842	42852	42854	42862	42876	42908	42956	43022
15	43096	43172	43246	43320	43354	43312	43206	43106	43046	43026
16	43030* 2	43024	43008	42998	42992	42990	42992	42992	42980	42964
17	42934	42878	42842	42868	42916	42950	42958	42944	42924	42918
18	42940							42892	42898	42950
19	43032	43122* 8	43098	43018	42920	42836	42778	42768	42788	42812
20	42860	42890	42890	42890	42922	43018	43148	43300	43372	43332
21	43242	43140	43070	43046	43030	43008	42974	42910	42846	42820
22	42826	42836	42878	42966	43048	43082	43082	43072	43072	43086
23	43088	43082	43094	43088	43090	43046	42972	42940	42844	42622

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 8- 8-1973
(DAY NO 220)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	42406* 4	42422	42544	42718	42844	42888	42860	42792	42712	42628
1	42540	42458	42370*16	42372	42418	42516	42582	42596	42584	42540
2	42500	42470	42412	42338	42284*26	42294	42316	42324	42344	42396
3	42412	42398	42402	42442	42480*26	42466	42434	42428	42436	42436*56
4	42444	42474	42532	42602	42662	42694	42718	42734	42762	42804
5	42864	42928	42978	43020	43052	43060	43036	42992	42936	42886
6	42828	42778	42760	42740	42712	42688*32	42694	42708	42728	42744
7	42752	42762	42770	42758	42730	42698	42666	42632	42598	42560
8	42522	42478	42432	42386	42348	42316	42288	42246	42200	42156
9	42118	42078	42032	42000	42000	42022	42040*38	42036	42016	41996
10	41982	41982	41998	42028	42086	42160	42224	42276	42310	42334
11	42346	42360	42372	42382	42392	42398	42412	42434	42474	42518
12	42544	42566	42584	42608	42622	42632	42636	42632	42624	42612
13	42592	42558	42514	42466	42422	42374	42342	42324	42326	42328
14	42316	42290	42252	42200	42130	42046	41954	41866	41804	41786
15	41812	41860	41906	41938	41956	41970	41976	41970	41974	42008
16	42094	42220	42332	42394*20	42384	42342	42278	42206	42144	42094
17	42052	42020	41998	42000	42028	42080	42130	42156	42156	42148
18	42148	42158	42184	42220	42252	42256	42226	42168	42096	42022
19	41960	41906	41860	41826	41810	41810	41828	41852	41872	41886
20	41888	41876	41844	41806	41764	41736	41726	41736	41752	41766
21	41770	41760	41740	41722	41708	41698	41692	41686	41678	41668
22	41664	41670	41684	41702	41720	41730	41730	41728	41714	41702
23	41674	41638	41606	41590	41588	41594	41604	41618	41632	41646

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 9- 8-1973
(DAY NO 221)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	41656	41656	41646	41634	41616	41604	41596	41586	41584	41580
1	41574	41568	41558	41552	41548	41546	41538	41518	41484	41444
2	41412	41388	41370	41350	41330	41314	41298	41284	41270	41260
3	41258	41268	41288	41310	41330*28	41328	41328	41322	41310	41296
4	41280	41264	41252	41248	41248	41252	41266	41284	41306	41326
5	41342	41360	41376	41388*20	41386	41370	41338	41306	41278	41256
6	41236	41212	41184	41146	41100	41070	41058	41068	41082	41080
7	41102	41160	41226	41276	41306	41362	41498			
8										
9										
10										
11										
12	41090	40962* 8	41242*14	41416	41546*26	41398	41258	41110	41092	41104*56
13	41290	41022	41034	41082	41182	41254	41176*40	41264*44	41244	41432
14	41288	41296	41298	41298	41296	41278	41244	41212*44	41220	41254
15	41284	41298	41306	41318	41348	41396	41448	41496	41524	41528
16	41506	41474	41430	41368*22	41370	41388	41412	41438	41456	41460
17	41456	41450	41450	41448	41444	41438	41436	41448	41476	41508
18	41534	41554	41570	41586	41584	41568	41550	41544	41546	41554
19	41574	41602	41628	41648	41662	41672	41680	41698	41730	41760
20	41780	41790	41796	41802	41810	41822	41832	41834	41834	41828
21	41818	41802	41790	41784	41786	41792	41798	41806	41814	41820
22	41824	41830	41842	41854	41868	41882	41896	41910	41926	41946
23	41968	41992	42016	42044	42068	42082	42090	42104	42136	42224*56

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMASDATE 10- 8-1973
(DAY NO 222)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	42246	42310	42354	42366	42338	42284	42220	42174	42158	42176
1	42194	42120	42018	42016	42056	42092	42126	42254	42468	42614
2	42568	42482	42434	42336	42194	42124*32	42132	42158*44	42148	42110
3	42064	42038	42038	42056	42084	42116	42150	42178	42204	42226
4	42246	42260	42272	42282	42300	42324	42344	42354	42358	42362
5	42364	42368	42378	42390	42412	42448	42494	42542	42578	42592
6	42590	42584	42576	42564	42542*28	42544	42554	42576	42592	42600
7	42612	42634	42662	42680	42682	42682	42676	42668	42658	42646
8	42634	42622	42614	42608	42608	42612	42608	42614	42618	42620
9	42642	42686	42710	42674	42612	42560	42528	42512	42506	42516
10	42546	42590	42636	42674	42686	42678	42668	42656	42644	42674
11	42774	42922	43094	43252*22	43250	43176	43170*38	43136	43032	42870
12	42688	42732	42798*16	42820	43482*28	43944*34	43638*40	43636	43916	43684
13	43170	43074	43242	43136	43570*28	43556	43230	43074	42960*52	42958
14	42720	42526	42616	42754	43024	43146	42876	42760	42798	42884
15	43002*2	42912*10	42924*14	42926	42974	43000	42998	43028	43088	43162
16	43224	43288	43306	43288	43272	43312	43374	43428	43464	43430*58
17	43436	43452	43432	43426	43402	43328	43242	43158	43082	43034
18	43016	42996	42976	42958	42940	42928	42942	42976	43016	43040
19	43038	43018	42998	42984	42986	42998	43012	43020	43036	43058
20	43072	43088	43114	43146	43178	43200	43212	43210	43204	43204
21	43206	43196	43178	43150	43118	43080	43048	43020	42996	42974
22	42942	42896	42846	42814	42804	42816	42842	42892	42950	43002
23	43046	43080	43114	43150	43178	43202	43220	43232	43240	43240

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMASDATE 11- 8-1973
(DAY NO 223)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	43236	43232	43232	43232	43238	43244	43242	43240	43240*52	43238
1	43244	43252	43256	43240	43214	43198	43190	43190	43194	43190
2	43176	43160	43158	43172	43196	43226	43264	43304	43344	43376
3	43404	43426	43436	43432	43422	43420	43424	43432	43436	43432
4	43422	43402	43376	43352	43346	43358	43376	43394	43410	43422
5	43440	43472	43524	43584	43644*28	43642	43622	43592	43568	43552
6	43544	43544	43554	43574	43604	43638	43666	43676	43662	43620
7	43564	43506	43456	43422	43404	43396	43402	43414	43432	43444
8	43458	43474	43492	43508	43520	43520	43512	43506	43508	43516
9	43532	43554	43578	43608	43642	43684	43732	43786	43834	43864
10	43872	43864	43844	43820	43802*26	43806	43808	43784	43730	43670
11	43622	43600	43602*14	43594	43556	43508	43482	43482	43498	43516
12	43526	43532	43552	43592	43640	43682	43694	43670	43634	43608
13	43598	43600	43618	43646	43680	43724	43772	43806	43822	43818
14	43808	43802	43800	43800	43804	43806	43806	43804	43802	43802
15	43802	43806	43816	43832	43852	43874	43902	43930	43960	43992
16	44024	44056	44084	44102	44122	44146	44184	44224	44270	44320
17	44370	44414	44446	44466	44464	44446	44408	44362	44326	44318
18	44344	44370	44346	44248	44112	44002	43934	43886	43854	43844
19	43850	43864	43872	43874	43870	43864	43860	43864	43870	43886
20	43906	43928	43946	43966	43986	44004	44024	44040	44058	44078
21	44100	44118	44130	44140	44146	44148	44150	44152	44154	44160
22	44170	44182	44194	44208	44218	44226	44234	44236	44238	44238
23	44238	44238	44240	44244	44250	44254	44256	44260	44266	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMASDATE 12- 8-1973
(DAY NO 224)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0		44284*10	44282	44282	44278	44272	44266	44256	44248	44236*58
1	44238	44234	44236	44244	44254	44266	44276	44284	44292	44296
2	44302	44306	44316	44326	44340	44352	44362	44370	44376	44382
3	44386	44388	44388	44390	44390	44394	44400	44410	44420	44430
4	44440	44452	44462	44474	44486	44494	44500	44506	44510	44518
5	44524	44532	44540	44548	44556	44562	44570	44578	44586	44590
6	44592	44594	44592	44592*22	44590	44588	44588	44586	44588	44590
7	44596	44604	44612	44618	44628	44640	44662	44684	44698	44698
8	44688	44680	44680	44686	44696	44708	44722	44738	44756	44772
9	44788	44804	44820	44834	44850	44870	44888	44910	44930	44944
10	44952	44954	44954	44960	44968	44978	44990	45004	45016	45022
11	45024	45018	45014	45014	45020	45030	45046	45064	45082*50	45076
12	45054	45026	45012	45012	45018	44992	44976*38	44972	44956	44932*58
13	44934	44938	44948	44960	44976	44982	44976	44966	44970	44980
14	44986	44992	45000	45010	45020	45034	45050	45066	45078	45086
15	45096	45104	45106	45098	45088*26	45092	45102	45112	45122	45134
16	45144	45154	45162	45168	45176	45184	45190	45196	45206	45214
17	45222	45232	45240	45252	45260	45270	45278	45282	45288	45290
18	45296	45302	45310	45318	45324	45334	45346	45352	45356	45356
19	45358	45360	45364	45366	45374	45380	45386	45396	45404	45412
20	45422	45432	45444	45454	45468	45482	45498	45514	45538	45558
21	45586	45612	45636	45670	45698	45712	45718	45710	45692	45658
22	45658	45656	45658	45656	45652	45646	45640	45638	45638	45642
23	45642	45644	45646	45646	45644	45638	45628	45620	45612	45610

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
TOTAL MAGNETIC FIELD IN GAMMAS

DATE 13- 8-1973
(DAY NO 225)

	00	06	12	18	MINUTES 24	30	36	42	48	54
HOURS										
0	45612	45620	45628	45640	45652	45666	45680	45694	45708	45724
1	45742	45760	45780	45804	45832	45858	45876	45884	45884	45880
2	45866	45836	45800	45784	45804	45840	45868	45898	45924	45940
3	45936	45924	45910	45896	45870	45840	45826	45822	45802	45752
4	45684	45518	45566*16	45568	45594	45628	45662	45696	45728	45748
5	45742	45716	45690	45684	45698	45712	45718	45710	45706	45714
6	45742	45780	45820	45852	45872	45886	45910	45950	46010	46076
7	46136	46186	46216*16	46212	46200	46214	46254	46302*46	46300	46256
8	46184	46136	46108	46068	46028	46008	46012	46016	46014	46016
9	46022	46030	46040	46036	46024	46014	46014	46024	46040	46062
10	46082	46104	46128	46152	46172	46188	46202	46212	46222	46234
11	46240	46248	46258	46266	46264	46262	46272	46300	46334	46354
12	46340	46302	46230*16	46246*20	46238	46226	46216	46204	46198	46198
13	46204	46214	46226	46232	46222	46200	46168	46146	46138	46148
14	46166	46188	46212	46236	46258	46282	46302	46316	46334	46348
15	46360	46366	46376	46380	46382	46382	46382	46384	46390	46390
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 1- 7-1973
 (DAY NO 182)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18	74		74	73	73	73	73	74		
19							81	81	82	82
20	82		88	89	90	90	91	86	86	87
21	87	87						92	94	95
22	97	100	102	106	113	126	153	189	214	218
23	264	336	472	505	463	516	429	402	475	457

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 2- 7-1973
 (DAY NO 183)

HOURS	00	06	12	18	24	30	36	42	48	54
0	576	624	626	696	721	714	730	748	768	800
1	794	794	797	812	778	778	780	782	786	793
2	800	810	819	830	838	844	855	868	872	878
3	886	891	896	904	912	917	926	934	942	946
4	950	954	955	958	956	956	957	960	964	967
5	969	969	970	972	975	978	983	986	989	992
6	996	998	996	994	982	982	970	945	932	904
7	877	858	844	835	826	820	810	800	784	773
8	762	759	729	707	682	658	639	614	589	573
9	544	520	500	479	457	437	418	402	387	372
10	355	342	329	317	307	298	292	285	280	277
11	274	272	270	269	268	268	268	268	268	269
12	269	269	269	269	269	269	269	269	269	269
13	269	269	268	265	262	262	262	262	263	263
14	266	267	265	262	258	254	248	246		
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 3- 7-1973
 (DAY NO 184)

HOURS	00	06	12	18	24	30	36	42	48	54
0	101	102	102	103	105	105	106	108	109	111
1	113	116	119	121	127	131	136	141	147	150
2	148	154	156	156	154	156	156	159	162	160
3	163	165	167	166	169	170	171	173	174	176
4	176	177	178	178	179	180	184	183	184	184
5	184	186	184	184	184	186	186	187	187	190
6	191	193	194	196	199	200	202	203	206	207
7	211	214	216	219	223	224	225	228	230	232
8	234	236	239	242	245	248	251	255	258	263
9	266	268	270	268	264	260	260	264	267	268
10	268	265	262	256	252	254	260	264	267	266
11	264	264	264	264	264	263	263	263	263	263
12	263	262	262	262	262	262	262	262	263	262
13	263	266	268	269	269	270	270	270	270	270
14	270	268	267	264	264	264	263	264		
15										
16	263	264	265	266	265	264	263	264	265	266
17	269	268	268	268	268	266	264	263		
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 4- 7-1973
(DAY NO 185)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0										
1										
2										
3										
4	263	262	262	264	266	269	272	275	279	284
5	288	293	298	303	307	312	319	330	339	349
6	361	370	336	406	418	432	439	449	461	477
7	495	514	533	558	587	618	666	718	765	792
8	828	851	909	975	1136	1378	1532	1547	1663	1712
9	1715	1718	1840	1892	1928	1954	1974	1998	2030	2050
10	2071	2084	2099	2116	2127	2137	2148	2165	2181	2193
11	2200	2210	2216	2224	2232	2238	2244	2252	2262	2272
12	2286	2296	2306	2320	2332	2338	2346	2354	2354	2355
13	2358	2364	2370	2377	2386	2390	2400	2410	2422	2430
14	2440	2442	2451	2458	2466	2478	2482	2487	2496	2497
15	2504	2508	2514	2516	2518	2522	2524	2526	2528	2533
16	2538	2546	2549	2551	2554	2555	2556	2556	2556	2557
17	2558	2559	2561	2562	2562	2561	2560	2562	2563	2564
18	2564	2564	2564	2565	2565	2565	2565	2565	2564	2564
19	2564	2564	2564	2564	2565	2564	2410	2204	2360	2564
20	2565	2565	2566	2562	2530	2498	2511	2526	2562	2562
21	2564	2564	2564	2564	2564	2564	2564	2563	2563	2562
22	2562	2562	2562	2562	2552	2545	2526	2524	2528	2527
23	2519	2485	2421	2394	2368	2308	2292	2275	2264	2257

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 5- 7-1973
(DAY NO 186)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2258	2265	2252	2244	2239	2237	2226	2219	2200	2200
1	2205	2188	2148	2153	2156	2129	2077	2044	2014	2068
2	2074	2085	2048	2113	2210	2272	2279	2297	2349	2397
3	2410	2418	2420	2418	2420	2425	2420	2414	2394	2396
4	2392	2396	2391	2399	2394	2392	2390	2351	2290	2308
5	2304	2280	2257	2276	2283	2273	2254	2266	2234	2350
6	2356	2342	2344	2320	2308	2194	2205	2198	2214	2196
7	2185	2197	2156	2108	2100	2090	2073	2072	2208	2451
8	2452	2452	2450	2454	2453	2450	2452	2452	2454	2453
9	2446	2442	2441	2441	2442	2442	2445	2446	2447	2447
10	2446	2446	2446	2447	2446	2448	2448	2448	2449	2451
11	2452	2452	2453	2453	2454	2454	2456	2453	2453	2439
12	2456	2456	2460	2458	2458	2458	2457	2456	2455	2436
13	2370	2303	2333	2358	2388	2412	2445	2487	2504	2504
14	2503	2502	2500	2498					2504	2392
15	2339	2288	2218	2183	2221	2248	2268	2279	2343	2369
16	2394	2406	2400	2396	2390	2394	2398	2397	2398	2372
17	2346	2342	2352	2356	2352	2344	2338	2322	2314	2318
18	2317	2319	2322	2330	2336	2346	2370	2386	2398	2415
19	2432	2443	2464	2465	2462	2458	2454	2446	2438	2415
20	2373	2328	2272	2280	2280	2288	2290	2291	2288	2276
21	2224	2230	2195	2168	2230	2356	2454	2520	2564	2564
22	2565	2566	2567	2568	2568	2568	2568	2567	2567	2567
23	2566	2566	2566	2566	2562	2565	2566	2566	2566	2566

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 6- 7-1973
(DAY NO 187)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2563	2562	2378	2318	2283	2180	2120	2173	2196	2208
1	2192	2220	2220	2185	2124	2100	2072	2083	2168	2184
2	2167	2180	2255	2335	2378	2381	2388	2378		
3						2382	2324	2270	2261	2256
4	2251	2218	2203	2209	2212	2200	2136	2112	2114	2110
5	2092	2082	2032	2022	2017	2028	2050	2074	2072	2064
6	2070	2058	2052	2036	2064	2078	2090	2086	2084	2086
7	2084	2089	2104	2174	2206	2214	2216	2224	2242	2246
8	2240	2242	2238	2214	2186	2124	2106	2103	2175	2168
9	2152	2150	2164	2188	2192	2192	2191	2195	2194	2195
10	2192	2190	2178	2156	2144	2074	1980	2020	2104	2174
11	2162		2154	2158	2154	2148	2138	2135	2130	2128
12	2121	2113	2112	2107	2109	2107	2093	2081	2075	2069
13	2066	2063	2060	2057	2053	2047	2042	2035	2019	2015
14	2003	1967	1913	1897	1890	1887	1858	1841	1849	1841
15	1839	1880	1890	1882	1855	1840	1804	1774	1732	1695
16	1658	1625	1582	1548	1499	1462	1421	1360	1298	1231
17	1167	1092	1035	954	914	1061	1099	1158	1279	1329
18	1360	1472	1547	1627	1695	1754	1877	2050	2368	2408
19	2408	2408	2408	2408	2408	2408	2409	2409	2409	2408
20	2408	2408	2407	2406	2406	2406	2406	2370	2374	2372
21	2373	2354	2018	1860	1760	1482	1355	1258	1002	846
22	920	926	754	615	574	602	709	832	943	1007
23	1092	1087	1222	1315	1393	1463	1518	1552	1569	1574

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 7- 7-1973
(DAY NO 188)

HOURS	MINUTES									
	00	06	12	18	24	30	36	42	48	54
0	1608	1612	1614	1616	1627	1634	1640	1647	1648	1670
1	1670	1668	1674	1676	1670	1680	1688	1692	1704	1710
2	1714	1716	1722	1726	1728	1730	1736	1728	1732	1744
3	1753	1749	1750	1784	1794	1810	1820	1820	1822	1826
4	1830	1830	1836	1834	1832	1826	1825	1825	1826	1830
5	1840	1843	1850	1850	1854	1850	1855	1870	1873	1877
6	1882	1884	1887	1893	1896	1898	1902	1903	1903	1903
7	1906	1907	1907	1908	1907	1909	1909	1910	1912	1914
8	1917	1918	1918	1918	1918	1918	1919	1918	1919	1922
9	1922	1921	1920	1921	1921	1921	1921	1920	1920	1920
10	1921	1922	1922	1923	1922	1920	1920	1920	1920	1918
11	1917	1916	1917	1918	1919	1920	1919	1918	1916	1917
12	1917	1918	1918	1918	1918	1917	1918	1918	1917	1917
13	1916				1916					1916
14	1915				1909					
15	1904				1908			1912		1922
16	1918	1917	1918	1913	1894	1868	1843	1812	1774	1809
17	1820	1876	1874	1893	1900	1880	1880	1866	1863	1887
18	1903	1914	1918	1930	1934	1930	1918	1878	1878	1876
19	1840	1854	1885	2014	2020	2022	2026	2027	2029	2038
20	2040	2044	2044		2045		2047		2047	2044
21	2033	2032	2028	2007	1969	1889	1820	1774	1753	1800
22	1808	1806	1776	1804	1760	1790	1837	1806	1816	1796
23	1864	1880	1885	1880	1914	1917	1902	1927	1972	1992

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 8- 7-1973
(DAY NO 189)

HOURS	MINUTES									
	00	06	12	18	24	30	36	42	48	54
0	2015	2023	2030	2030	2042	2050	2000	2064	2098	2101
1	2102	2097	2090	2081	2057	1982	1971	2040	2038	2039
2	2033	2018	2010	1991	1983	1968	1941	1912	1884	1951
3	1967	1963	1967	1964	1970	1962	1953	1948	1920	1902
4	1900	1904	1909	1900	1904	1906	1911	1908	1906	1906
5	1906	1900	1899	1892	1894	1903	1908	1912	1909	1898
6	1890	1882	1880	1867	1848	1835	1834	1821	1824	1826
7	1825	1806	1780	1746	1716	1740	1741	1752	1747	1789
8	1806	1788	1815	1826	1801	1824	1736	1753	1782	1768
9	1762	1734	1740	1761	1793	1816	1839	1850	1865	1897
10	1858	1870	1968	1967	1961	1962	1957	1948	1948	1947
11	1938	1940	1935	1932	1927	1898	1912	1894	1806	1804
12	1717	1677	1820	1868	1870	1869	1849	1856	1856	1856
13	1854	1850	1846	1842	1842	1839	1846	1849	1844	1825
14	1809	1801	1783	1772	1768	1762	1763	1746	1739	1714
15	1708	1684	1618	1650	1658	1656	1658	1649	1670	1693
16	1736	1706	1738	1721	1714	1724	1728	1734	1670	1488
17	1456	1462	1446	1478	1466	1443	1441	1466	1507	1604
18	1618	1620	1614	1600	1572	1545	1548	1567	1575	1579
19	1574	1560	1554	1543	1544	1531	1538	1542	1541	1556
20	1559	1553	1548	1542	1538	1539	1540	1540	1540	1528
21	1522	1504	1513	1492	1458	1441	1416	1325	1258	1088
22	1051	1050	990	940	790	589	543	526	509	506
23	504	496	480	488	512	524	553	700	892	944

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 9- 7-1973
(DAY NO 190)

HOURS	MINUTES									
	00	06	12	18	24	30	36	42	48	54
0	1032	1050	1003	1079	1096	1152	1166	1167	1172	1176
1	1168	1162	1159	1153	1149	1144	1139	1131	1130	1126
2	1121	1112	1104	1112	1086	1076	1027	940	711	617
3	688	852	920	982	976	1000	1007	1010	1004	1001
4	998	994	992	986	982	978	974	970	971	966
5	969	972	974	982	982	997	1009	1003	1008	999
6	1014	998	1008	1006	1000	1011	1006	1010	1015	1017
7	1016	1018	1021	1034	1045	1058	1059	1069	1060	1052
8	1006	964	998	1012	1005	983	960	968	969	968
9	963	947	938	937	924	915	913	905	899	896
10	891	875	882	887	895	893	888	888	886	884
11	884	884	886	887	885	887	887	889	891	886
12	884	886	888	881	878	873	873	880	890	890
13	906	908	903	914	934	942	952	967	976	956
14	962	975	976	975	967	970	941	922	895	877
15	882	843	840	826	808	796	785	784	777	796
16	808	817	828	838	868	858	854	837	818	808
17	800	785	790	706	524	590	824	881	906	960
18	1030	912	1000	984	1000	870	860	884	946	1032
19	970	940	934	1082	1000	951	900	980	876	1088
20	1090	1114	1185	1235	1241	1176	1159	1146	1183	1196
21	1167	1161	1149	1140	1140	1094	1076	1025	1011	995
22	956	918	934	961	965	971	956	938	964	922
23	986	972	1018	1030	1011	970	986	932	934	914

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 10- 7-1973
(DAY NO 191)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	996	888	943	970	997	996	968	922	905	937
1	961	962	956	951	1078	1076	1098	1097	1087	1042
2	1016	1121	1082	1085	1088	1089	1072	1138	1197	1185
3	1167	1088	1002	923	894	873	840	888	935	903
4	940	915	951	974	968	910	970	981	1005	1026
5	1056	1070	1058	1042	931	835	885	840	768	1026
6	1027	973	884	800	1005	790	780	794	746	945
7	780	780	754	840	949	928	1000	1054	1062	1001
8	931	860	822	800	798	786	778	740	714	657
9	688	734	808	848	924	937	980	990	900	787
10	859	868	864	914	874	736	794	776	874	806
11	882	940	1000	1040	1045	962	900	930	1020	1096
12	1173	1181	1178	1197	1128	1250	1270	1354	1403	1406
13	1404	1417	1446	1342	1254	1275	1300	1250	1212	1128
14	1121	1030	1158	1010	935	874	867	842	814	800
15	748	694	830	839	866	838	746	820	874	778
16	603	886	820	747	746	675	440	466	514	724
17	860	939	964	973	968	848	832	922	950	880
18	920	1006	985	965	874	720	528	505	520	546
19	587	645	699	783	786	725	778	800	784	761
20	800	984	1140	1286	1435	1485	1492	1388	1332	1332
21	1274	1194	1248	1233	1214	1203	1122	1094	1080	1071
22	1062	1042	1048	1026	1014	1045	1041	1059	1036	1051
23	1038	1026	1025	968	876	881	842	868	866	854

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 11- 7-1973
(DAY NO 192)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	856	794	700	700	654	580	490	460	452	522
1	506	556	646	800	820	830	920	950	915	980
2	1074	1060	1065	1082	1076	1054	1014	976	864	773
3	769	686	704	789	776	772	840	898	911	670
4	700	848	1028	1202	1227	1272	1279	1270	1214	1259
5	1164	1068	1070	1092	984	946	980	1022	982	1045
6	998	1020	888	937	988	940	910	780	804	830
7	932	965	917	883	854	914	909	888	792	720
8	748	652	556	610	460	610	633	700	810	950
9	1009	1060	1225	1266	1267	1237	1124	1044	1072	1130
10	1079	1030	962	934	910	876	785	711	800	845
11	923	951	969	1100	1084	1152	1152	1158	1138	1097
12	1095	1160	1210	1216	1226	1240	1303	1308	1312	1162
13	1186	1240	1220	1219	1199	1181	1162	1188	1225	1205
14	1219	1226	1238	1245	1254	1259	1239	1080	1023	1085
15	1095	1124	1170	1149	1213	1033	986	1091	1077	1130
16	1182	1138	1138	1226	1299	1259	1171	1122	1122	1235
17	1244	1256	1210	1203	1234	1247	1256	1247	1224	1194
18	1154	1156	1159	1145	1159	1149	1120	1039	1044	1138
19	1101	1052	1066	1110	1060	1118	1148	1194	1173	1158
20	1145	1131	1107	1100	1104	1095	1112	1006	1032	1062
21	1084	1094	1107	1095	1115	1076	1053	1008	1003	992
22	980	982	985	972	952	1006	966	967	954	954
23	1013	1000	1080	1113	1106	1086	1098	1051	968	910

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 12- 7-1973
(DAY NO 193)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	919	942	965	984	989	1000	1020	1033	1033	1024
1	1077	1060	1083	1052	1024	1042	1060	1068	1063	1059
2	1117	1106	1094	1092	1094	1088	1071	1070	1040	1032
3	1025	1032	1040	1032	942	924	944	984	983	978
4	979	971	958	940	924	927	970	950	666	590
5	572	670	700	734	621	548	523	467	410	347
6	330	210	176	171	183	196	223	226	222	224
7	240	272	262	340	324	326	428	470	478	468
8	528	552	592	623	654	689	747	780	770	799
9	818	734	734	688	688	687	698	648	612	666
10	658	655	623	607	597	596	594	574	528	392
11	340	329	316	310	303	297	294	290	288	286
12	278	275	273	263	261	258	256	258	255	254
13	260	257	266	275	276	283	286	309	372	390
14	406	390	393	389	400	428	402	293	349	380
15	440	460	574	674	670	576	598	668	685	736
16	828	876	936	972	977	956	840	856	936	919
17	919	912	905	908	915	922	874	925	944	942
18	908	848	930	900	930	926	952	928	909	865
19	853	836	782	755	815	852	844	854	848	840
20	827	687	730	806	867	929	947	975	992	1028
21	1090	1163	1251	1250	1267	1251	1255	1242	1242	1240
22	1210	1199	1176	1175	1153	1145	1136	1125	1161	1160
23	1100	1012	1062	1125	1146	1156	1105	1109	1160	1179

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 13- 7-1973
 (DAY NO 194)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1200	1190						1238		1217
1	1141	1136			1076	1046	1015	984	992	1060
2	1104	1112	1116	1100	1100	1061	1027	1018	950	984
3	1004	997	1030	1035	985	928	814	744	634	668
4	696	698	740	800	860	924	920	858	878	923
5	900	1008	1056	1066	1043	1048	1061	1064	1068	1036
6	940		743	642	743	680	641	596	761	840
7	924	974	994	962	998	1020	1122	1105	1106	1132
8	1126	1135	1150	1153	1145	1169	1186	1284	1396	1400
9	1397	1356	1239	1220	1262	1452	1452	1250	970	791
10	740	638	674	769	847	874	726	652	705	725
11	719	718	784	692	600	494	582	653	792	885
12	930	954	952	998	972	1124	1204	1200	1306	1450
13	1504	1526	1494	1508	1494	1447	1340	1154	1056	994
14	938	869	889	696	752	806	772	794	826	940
15	1006	1089	1190	1265	1282	1306	1325	1364	1326	1280
16	1252	1234	1197	1206	1158	1148	1094	1200	1193	1192
17	1112	1080	1020	912	852	844	788	712	695	751
18	718	786	826	836	874	842	786	854	780	754
19	737	745	660	676	850	970	1044	1052	1012	950
20	972	954	995	1035	1200	1296	1364	1368	1405	1484
21	1558	1582	1566	1575	1533	1445	1405	1190	1030	1036
22	815	683	750	758	818	914	1032	1108	1060	938
23	928	870	930	917	990	1050	1063	1030	1120	1064

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 14- 7-1973
(DAY NO 195)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1032	974	1068	1020	934	800	838	914	1142	1210
1	1092	1032	1003	1106	1168	1222	1216	1300	1404	1500
2	1532	1610	1612	1593	1586	1538	1556	1547	1557	1542
3	1556	1490	1458	1484	1426	1410	1400	1330	1384	1436
4	1326	1342	1380	1498	1422	1380	1480	1568	1678	1538
5	1460	1360	1312	1198	1100	1170	1206		980	940
6	1088	1096	1160	1130	1005	987	1140	1190	1240	1302
7	1386	1360	1200	1030	1028	1018	1038	982	872	952
8	1020	992	965	1006	941	864	744	730	720	720
9	732	803	1016	1078	1206	1336	1436	1486	1554	1564
10	1553	1535	1498	1478	1298	1241	1144	1072	1068	1053
11	1048	1012	848	818	814	887	929	839	792	710
12	586	472	539	605	665	700	690	648	696	810
13	900	1042	1004	985	940	834	815	892	736	795
14	820	1052	1131	1202	1203	1208	1211	1206	1225	1034
15	1010	1004	1073	980	908	1010	1022	1028	1068	1020
16	992	870	886	960	992	983	1078	1044	1142	1086
17	1136	1148	1090	984	1087	1009	960	840	724	722
18	888	960	840	860	932	898	932	938	820	906
19	922	971	926	864	898	900	934	918	970	946
20	884	974	911	822	856	812	766	726	666	604
21	574	512	494	564	810	858	948	1008	946	1002
22	1244	1342	1222	1277	1212	1185	1074	992	1009	840
23	852	770	754		953		1164	1132	1042	

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 15- 7-1973
(DAY NO 196)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4	1492	1482	1444	1352	1270	1200	1490	1547	1598	1520
5	1050	1030	1028	1006	946	985	1196	1184	1151	1130
6	876	786	754	660	534	557	1008	896	890	860
7	820	880	940	910	1020	1200	612	626	655	760
8	1204	1120	1057	915	889	820	1220	1218	1236	1227
9	734	840	850	936	1100	796	808	714	686	686
10	1377	1368	1387	1353	1288	1160	1240	1336	1274	1349
11	1164	1132	1050	986	952	1265	1278	1312	1208	1157
12	1371	1318	1274	1245	1233	973	1012	1168	1352	1400
13	1071	984	866	834	726	1206	1120	1255	1210	1140
14	680	700	614	520	505	596	528	624	603	580
15	825	848	845	871	916	485	506	635	672	714
16	1060	1104	1132	1182	1225	1028	1048	1066	1086	1108
17	1485	1486	1456	1475	1482	1280	1365	1404	1406	1420
18	1440	1380	1354	1420	1268	1496	1503	1500	1480	1422
19	850	1020	1013	982	986	1110	978	920	852	886
20	1095	1064	1098	1095	1068	1000	1120	1000	982	1031
21	640	521	533	572	620	1056	1062	1014	868	830
22	736	870	839	918	812	608	626	792	890	820
23	846	856	954	1058	1076	700	742	758	784	761
						1114	1116	1192	1324	1300

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 16- 7-1973
(DAY NO 197)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1308	1324	1378	1360	1420	1464	1478	1551	1576	1594
1	1585	1528	1584	1562	1514	1482	1476	1416	1330	1080
2	814	730	690	634	645	636	705	830	960	906
3	914	860	885	882	975	1044	1160	1203	1156	1160
4	1202	1320	1340	1416	1266	1362	1428	1294	1274	1422
5	1520	1588	1618	1470	1338	1200	1094	1046	1118	1230
6	1360	1600	1530		1584	1584	1560	1480	1418	1386
7	1270	1260	1288	1454	1472	1388	1400	1404	1374	1390
8	1266	1333	1406	1278	1215	1140	1060	1185	1075	980
9	1096	1196	1173	1146	1200	1140	1180	1194	1140	1245
10	1313	1316	1280	1222	1072	868	752	694	700	592
11	605	552	753	914	893	774	641	708	694	650
12	828	905	1030	1260	1326	1321	1280	1260	1120	1024
13	1014	1028	1026	1092	1172	1123	1122	1072	1098	974
14	920	936	916	870	958	960	905	854	885	880
15	940	884	760	765	792	816	734	773	809	674
16	610	584	612	711	700	848	994	1020	1156	1231
17	1268	1340	1327	1308	1290	1286	1276	1258	1266	1296
18	1273	1200	1000	934	915	938	966	996	1011	1000
19	925	864	814	692	734	768	734	716	710	510
20	699	728	654	626	542	506	488	468	448	472
21	545	529	597	534	452	448	288	324	572	762
22	888	894	910	932	942	878	926	959	982	922
23	1020	1046	948	1034	1050	1077	1110	1119	1119	1166

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 17- 7-1973
(DAY NO 198)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1157	1167	1209	1212	1216	1220	1225	1172	1124	1030
1	1006	1000	1058	1026	1158	1138	1130	1050	1012	996
2	996	992	890	794	820	850	864	878	933	972
3	1044	1127	1130	1130	1128	1141	1146	1146	1151	1130
4	1107	1113	1109	1118	1060	1024	988	1010	1136	1153
5	1168	1100	986	940	802	852	672	635	592	624
6	668	624	770	704	742	808	760	778	772	920
7	963	1006	1017	1014	974	900	680	542	460	374
8		390	432	470	564	660	572	766	735	678
9	648	568	510	397	596	660	846	835	840	870
10	910	796	750	727	724	656	498	452	562	566
11	584	608	650	506	474	580	672	744	953	1074
12	1080	1086	1084	1084	1085	1022	1050	1064	1054	1000
13	948	936	917	900	950	738	734	650	640	606
14	614	718	860	910	896	940	920	862	892	909
15	920	908	962	998	990	880	1105	1144	1149	1145
16	1088	1032	912	960	802	692	762	725	799	842
17	730	890	772	800	890	1102	1292	1420	1558	1566
18	1420	1288	1343	1186	1150	1100	1028	934	966	1006
19	1053	1088	1124	1148	1020	922	940	923	967	938
20	987	972	940	974	998	990	982	942	934	920
21	954	984	992	1004	1020	1006	962	856	880	898
22	916	980	1014	961	1020	1106	1130	1176	1236	1332
23	1322	1376	1374	1320	1261	1222	1115	1150	1121	1127

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 18- 7-1973
(DAY NO 199)

HOURS	00	06	12	18	24	30	36	42	48	54
0	888	968	978	934	1040	1292	1288	1316	1382	1468
1	1628	1460	1390	1346	1258	1165	1090	1060	1022	1034
2	1025	1020	994	1010	994	992	980	987	1040	1066
3	1018	1097	1194	1232	1294	1375	1450	1514	1540	1560
4	1598	1604	1620	1638	1640	1637	1552	1499	1406	1451
5	1599	1514	1308	1320	1338	1228	1170	1220	1218	1170
6	1188	1180	1176	1103	1048	1022	1060	1100	1118	1111
7	1066	1065	1067	1026	1012	992	1010	1083	1086	1107
8	1105	1174	1216	1222	1239	1250	1364	1368	1396	1382
9	1484	1462	1438	1438	1457	1435	1354	1320	1394	1413
10	1326	1320	1440	1550	1446	1398	1306	1160	1126	1118
11	1091	1046	954	964	984	1048	1157	1188	1256	1316
12	1350	1230	1076	1038	1090	988	974	1028	1040	1060
13	1008	1022	1104	1155	1362	1390	1380	1288	1196	1124
14	1102	1020	1046	1076	1122	1226	1270	1290	1328	1355
15	1354	1430	1453	1464	1530	1594	1606	1674	1681	1668
16	1548	1438	1312	1260	1300	1190		1120	1160	1172
17	1074	1004	882	908	914	880	888	992	1001	1036
18	1052	1068	1032	1048	1120	1135	1145	1140	1094	1090
19	1038	1124	1118	1100	1136	1182	1194	1160	1096	1492
20	1572	1530	1494	1566	1540	1404	1366	1436	1447	1447
21	1490	1412	1380	1260	1080	1120	1140	1172	1050	948
22	825	604	609	555	524	572	660	638	690	743
23	865	965	934	911	928	988	1198	1264	1330	1240

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 19- 7-1973
(DAY NO 200)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1280	1310	1328	1368	1378	1300	1238	1228	1190	1066
1	1004	936	940	971	1064	1126	979	1182	1380	1464
2	1391	1434	1460	1464	1460	1408	1200	1000	914	1084
3	1105	1000	808	712	866	1010	1028	1041	964	986
4	962	860	704	692	787	888	1104	1004	955	1020
5	1110	1025	986	900	884	916	955	980	965	920
6	769	767	740	668	673	724	802	904	979	1014
7	1012	990	1010	950	972	1000	1039	1092	1107	1103
8	1117	1051	1052	1015	1051	1113	1224	1227	1207	1174
9	1140	1174	1196	1218	1130	1112	1141	1144	1178	1203
10	1194	1181	1150	1134	1122	1082	1080	1112	1098	1140
11	1120	1174	1184	1190	1180	1160	1154	1138	1137	1142
12	1137	1131	1123	1086	1116	1142	1110	1033	1064	1000
13	1072	1088	1062	1178	1169	1200	1316	1312	1308	1305
14	1300	1242	1194	1120	1115	1132	1130	1161	1165	1162
15	1115	1126	1074	1070	1088	1072	993	948	1002	993
16	1012	1006	1022	1039	1054	1066	1109	1108	1092	1102
17	1112	1115	1098	1110	1070	1065	1033	972	946	902
18	875	828	786	858	900	914	930	969	940	911
19	880		910	1026	1087	1074	1114	1120	1122	1146
20	1156	1158	1160	1144	1120	1008	928	850	850	860
21	789	718	842	818	940	1010	1020	1017	1016	998
22	989	1005	1004	960	927	921	918	930	902	870
23	936	876	983	972	976	954	928	1005	1022	990

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 20- 7-1973
(DAY NO 201)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1000	1002	1016	1026	1046	1054	1052	1013	942	839
1	808	818	848	860	836	923	848	820	930	1050
2	1114	1205	1273	1374	1402	1376	1268	1253	1320	1300
3	1258	1208	1136	1128	1126	1006	946	880	944	932
4	988	958	860	764	700	584	686	876	917	804
5	1000	1050	1092	1094	1029	914	1025	1107	1155	1260
6		1293	1228	1068	997	799	720	645	678	545
7	618	647	732	829	870	906	950	920	1017	1044
8	1110	1110	1123	1119	1156	1149	1160	1167	1164	1163
9	1157	1145	1128	1090	936	670	331	424	513	568
10	630	666	718	644	602	538	531	546	544	540
11	580	598	586	584	588	532	512	509	513	522
12	538	550	556	562	596	596	593	589	586	575
13	613	579	537	508	472	420	407	351	320	311
14	310	314	371	501	580	532	548	500	508	614
15	780	1005	1120	1209	1243	1262	1279	1303	1292	1284
16	1299	1293	1288	1289	1292	1285	1286	1295	1311	1300
17	1254	1356	1354	1363	1365	1370	1367	1368	1370	1373
18	1374	1375	1374	1374	1373	1372	1378	1386	1389	1396
19	1400	1409	1414	1423	1427	1445	1454	1454	1475	1483
20	1484	1485	1487	1488	1478	1472	1468	1445	1448	1438
21	1396	1352	1378	1366	1395	1471	1510	1558	1606	1610
22	1622	1624	1646	1678	1695	1703	1688	1684	1690	1700
23	1718	1698	1699	1709	1712	1710	1734	1735	1737	1740

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 21- 7-1973
(DAY NO 202)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1742	1745	1745	1746	1742	1748	1750	1752	1754	1757
1	1761	1763	1763	1766	1764	1764	1764	1767	1768	1767
2	1768	1770	1772	1776	1778	1774	1772	1773	1778	1774
3	1778	1763	1744	1653	1594	1583	1726	1800	1795	1796
4	1807	1811	1801	1821	1830	1839	1841	1842	1847	1848
5	1845	1850	1851	1851	1851	1852	1851	1851	1851	1851
6	1851	1851	1850	1849	1848	1848	1848	1847	1846	1845
7	1844	1843	1838	1838	1837	1830	1802	1779	1760	1692
8	1706	1706	1696	1695	1696	1698	1532	1416	1354	1320
9	1348	1390	1444	1546	1634	1636	1637	1636	1634	1631
10	1618	1611	1610	1608	1608	1615	1576	1574	1557	1534
11	1527	1524	1518	1517	1515	1506	1504	1490	1474	1485
12	1491	1488	1484	1484	1478	1476	1482	1478	1473	1470
13	1467	1460	1456	1458	1454	1452	1426	1376	1359	1336
14	1340	1275	1110	926	768	884	1148	1313	1294	1288
15	1230	1237	1206	1080	950	774	736	776	776	850
16	860	896	960	1014	1048	1098	1126	1144	1158	1185
17	1210	1239	1242	1283	1288	1320	1329	1327	1329	1323
18	1318	1307	1310	1302	1266	1272	1264	1258	1254	1233
19	1241	1239	1237	1236	1232	1229	1224	1222	1225	1226
20	1222	1224	1220	1213	1220	1227	1224	1222	1226	1230
21	1236	1235	1239	1251	1254	1269	1256	1257	1250	1245
22	1247	1226	1214	1202	1228	1207	1204	1220	1247	1253
23	1192	1044	928	795	922	1134	1212	1227	1242	1270

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 22- 7-1973
(DAY NO 203)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1284	1304	1310	1310	1311	1312	1284	1260	1254	1247
1	1243			1222	1218	1210	1210	1206	1203	1200
2	1197	1190	1180	1104	1003	802	845	693	554	534
3	624	878	1115	1148	1176	1196	1214	1230	1233	1236
4	1242	1248	1252	1255	1258	1258	1258	1256	1254	1254
5	1259	1260	1251	1246	1240	1234	1230	1222	1222	1222
6	1234	1234	1225	1230	1220	1216	1228	1216	1207	1200
7	1191	1182	1144	1096	1058	1012	815	810	787	808
8	731	632	534	458	354	367	222			
9	402					395				
10	344					373				
11	300					250				
12	316					298				
13	332	298	352	276	454	674	293	308	346	371
14	1198	1204	1210	1223	1240	1256	1271	1277	1280	1284
15	1278	1280	1282	1256	1268	1026	520	764	1188	1312
16	1348	1369	1379	1389	1400	1409	1421	1426	1430	1436
17	1427	1427	1376	1324	1365	1380	1335	1314	1354	1338
18	1254	1224	1281	1330	1348	1362	1399	1407	1423	1456
19	1422	1588	1772	1948	1948	1948	1948	1948	1778	1660
20	1540	1438	1343	1350	1342	1330	1290	1281	1260	1274
21	1320	1330	1321	1359	1370	1388	1362	1426	1433	1430
22	1429	1426	1420	1412	1398	1401	1394	1390	1365	1360
23	1354	1323	1332	1334	1335	1354	1374	1378	1385	1397

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 23- 7-1973
 (DAY NO 204)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1398	1334	1434	1433	1436	1440	1440	1439	1434	1312
1	1267	1273	1274	1272	1255	1284	1298	1306	1309	1332
2	1426	1539	1708	1830	1938	1942	1945	1942	1946	1948
3	1948	1949	1946	1928	1425	1356	1255	1264	1279	1279
4	1255	1341	1386	1398	1420	1420	1417	1430	1418	1416
5	1402	1447	1433	1348	1207	1337	1340	1326	1242	1258
6	1278	1240	1100	1256	1296	1309	1309	1183	1040	1170
7	1271	1284	1284	1264	1251	1233	1211	1104	974	874
8	770	666				367				
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 26- 7-1973
(DAY NO 207)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	326	180	400	612	752	954	1112	1191	1204	1200
13	1199	1196	1208	1229	1246	1260	1266	1271	1276	1273
14	1254	1233	1236	1216	1228	1086	656	384	802	1140
15	1216	1296	1285	1186	1336	1372	1388	1398	1410	1414
16	1414	1414	1413	1418	1416	1396	1346	1312	1316	1323
17	1337	1328	1312	1292	1242	1283	1430	1430	1418	1414
18	1404	1398	1388	1348	1330	1322	1315	1311	1296	1182
19	1149	1098	1048	999	932	822	828	782	803	900
20	1034	1154	1203	1235	1284	1343	1368	1407	1360	1460
21	1506	1506	1560	1845	1862	1858	1856	1855	1855	1850
22	1838	1800	1700	1670	1652	1572	1566	1560	1552	1566
23	1750	1768	1780	1780	1774	1764	1736	1712	1688	1668

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 27- 7-1973
(DAY NO 208)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1586	1506	1448	1382	1348	1274	1300	1531	1570	1686
1	1716	1734	1742	1750	1718	1772	1764	1817	1740	1824
2	1840	1816	1664	1685	1707	1726	1844	1830	1830	1830
3	1836	1847	1850	1838	1850	1852	1846	1822	1823	1818
4	1817	1809	1803	1804	1802	1800	1798	1800	1796	1792
5	1782	1786	1758	1738	1742	1650	1586	1583	1632	1650
6	1650	1612	1582	1483	1456	1386	1522	1550	1661	1537
7	1565	1560	1554	1550	1546	1542	1542	1540	1526	1532
8	1525	1522	1510	1524	1446	1390	1456	1467	1463	1435
9	1300	1386	1424	1427	1419	1425	1422	1434	1432	1441
10	1431	1428	1426	1419	1416	1429	1432	1432	1427	1418
11	1410	1407	1405	1400	1394	1392	1381	1377	1376	1364
12	1365	1348	1322	1311	1298	1264	1268	1263	1224	1144
13	1188	1176	1148	1086	1044	1012	983	948	899	798
14	770	849	838	827	824	764	864	838	839	830
15	833	750	773	779	710	883	864	848	706	636
16	400	468	520	478	440	583	518	522	515	467
17	454	538	667	625	894	706	900	656	584	620
18	828	883	1006	926	913	982	930	890	804	896
19	896	896	896	896	896	946	998	1116	1132	1200
20	1230	1354	1434	1480	1500					
21	1470	1472	1490	1440	1342	1408	1340	1250	1186	1236
22	1292	1380	1422	1404	1470	1440	1480	1524		
23		1584	1620	1673	1680	1666	1524	1380	1160	860

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 28- 7-1973
(DAY NO 209)

HOURS	00	06	12	18	24	30	36	42	48	54
0	604	950	1250	1420	1538	1618	1652	1670	1662	1618
1	1578	1490	1482	1470	1378	1422	1364	1318	1274	1270
2	1283	1384	1432	1338	1426	1476	1410	1472	1496	1512
3	1526	1464	1454	1330	1236	1103	1290	1466	1485	1526
4	1588		1522	1486	1482	1430				
5										
6							1405	1454	1472	1476
7	1484	1460	1390	1364	1342	1340	1304	1258	1264	1262
8	1306	1364	1372	1440				1526		
9										
10										
11										
12	1414									
13						1642				
14	1624					1688				
15	1680				1684					
16	1682							1684		
17	1690	1594	1586	1580	1578	1579	1579	1584	1542	1534
18	1530	1490	1430	1470	1490	1524	1572	1680	1680	1586
19	1558	1536	1454	1424	1362	1380	1380	1362	1332	1262
20										
21										
22										
23									1210	1298

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 29- 7-1973
(DAY NO 210)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1389	1480	1432			1464				
1					1499	1495	1420	1352	1366	1344
2	1294	1270	1296	1320	1380	1430	1338	1388	1484	1440
3	1512	1490	1473	1564	1496	1470	1364	1186	1058	1164
4	1340	1480	1510	1560	1546	1523	1538	1478	1475	1470
5	1432	1372	1368	1392	1372	1354	1300	1327	1360	1320
6	1362	1523								
7										
8										
9										
10										
11		1500	1446	1420	1376	1424	1382	1290	1234	1188
12		1142	1210	1336	1200	934	1054	1040	1044	1038
13	1160	1034	1020	1006	998	1004	1032	1058	1110	
14	1280			1300		1256				1160
15		1158			1116				1098	
16	1126		1210	1210	1200	1206	1236	1282	1290	1292
17	1300	1300	1309		1310		1260		1200	
18	1040	1020	1032	958	1036	1050	1142			
19	1156	1146	1256	1340	1234	1100	916	930	974	
20								994	998	1020
21	1032	1042	1030	1098	1214	1300	1428	1514	1546	1582
22	1658	1550	1426	1368	1372	1366	1384		1401	
23	1416		1415		1410		1410		1417	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 30- 7-1973
(DAY NO 211)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1434		1494		1556					
1			1678							
2										
3	1594				1548		1536		1510	
4	1518		1514		1517		1488		1348	
5	1340	1254	1220	1222	1225	1220	1201	1060	1048	1045
6	1043	1040	1040	1030	960	912	933	892	885	780
7	848	800	873	898	820	814	810		810	827
8	874	952	1160	1266	1408	1448	1490	1518	1460	1452
9	1382	1174	1246	1160	1028	1060	1046	1100	954	986
10	1106	1054	1004	984	960	880	855	877	958	972
11	962	965	926		952		940		1050	
12	1000		1078		1048		1180		1256	
13	1180		1108		1114		1115		1056	
14	1100		1041		1107		1115		1166	
15	1052		1050		1030		1029		976	
16	954		916		924		913		898	
17	862		788		838		850		800	830
18	830		898		850		818		782	
19	840		894		980				1110	
20	1256		1338				1504		1428	
21	1354		1212		1124		1000		966	
22	966		1186	1260	1290	1480	1370	1172	1182	1084
23	955	886				758				

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 31- 7-1973
(DAY NO 212)

HOURS	00	06	12	18	24	30	36	42	48	54
0	832					792				
1	857					1005				
2	1168					1006				
3	1064					1066				
4	1087					1098				
5	1170	1114	1058	963	1019	848	944	1120	1240	1114
6	1430	1370	1396	1366	1346	1354	1385	1388	1380	1364
7	1370								1260	1376
8								1275		
9										
10							1300			
11										
12										
13						1248				
14	1240									
15	1396					1506	1514	1524	1588	1472
16	1410	1314	1350	1382	1394		1348		1378	1376
17	1374	1373	1372	1371	1372		1374		1376	
18	1358		1331		1312		1290		1266	
19	1244		1232		1176		1118		1104	
20	1110					1000	1090	1190	1260	1400
21	1462	1490	1556	1500	1503	1447	1373	1320	1220	1124
22	1112	1024	986	964	974	1051	1080	1164		
23				1208	1332	1385	1135	1113	1000	978

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 1- 8-1973
(DAY MO Y13)

HOURS	00	06	12	18	24	30	36	42	48	54
0	886	688	596	568	722	717	743	776	800	688
1	729	793	884			951				
2	958	934	877	872	876	902	919	928	924	824
3	856	768	920	923	911	884	914	944	918	884
4	892	916	900	898	798	743	718	791	864	906
5	888	804	916	927	911	915	902	882	824	826
6	848	852	854	856	850	863	886	898	916	922
7	969	996	976	1027	1060	1062	1069	1028	1016	992
8	970		1081		1065		1051		1059	
9	982		917		960		964		940	
10	918		928		860		800		762	
11	704		728		778					
12										
13	899	856	908			868	874	928	838	844
14	722	790	810	704	728	596	516	646	906	719
15	1050	1056	1110	1160	1418	1330	1266	1246	816	970
16	1266	1323	1348	1293	1240	1268	1270	1252	1272	1290
17	1347	1246	1334	1326	1348	1175	972	898	966	1042
18	1098	1100	1064	1080	1078	1012	1010	1016	1008	1004
19	1024	1024	984	986	995	1010	1049	1106	1200	1278
20	1332	1395	1411		1420		1436		1452	
21	1460		1476		1482		1486		1491	
22	1493		1493		1497		1497		1502	
23	1514	1496	1491	1477	1476	1451	1340	1388	1353	1347

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 2- 8-1973
(DAY MO Y13)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1338	1331	1337	1353	1366	1397	1422	1435	1424	1441
1	1446	1436	1440	1449	1465	1491	1496	1491	1485	1500
2	1527	1538	1540	1451	1474	1512	1523	1503	1494	1465
3	1436	1191	1300	1368	1365	1257	1140	1296	1284	1464
4	1545	1524	1420	1418	1384	1422	1440	1482	1504	1512
5	1464	1512	1524	1544	1552	1560	1565	1570	1577	1587
6	1579	1562	1536	1652	1667	1680	1682	1672	1660	1564
7	1610	1561	1499	1490	1520	1594	1568	1612	1698	1604
8	1676	1719	1713	1685	1552	1578	1744	1768	1777	1779
9	1770	1779	1775	1660	1634	1667	1684	1692	1742	1788
10	1782	1782	1752	1818	1820	1854	1860	1882	1888	1906
11	1906	1903	1880	1878	1908	1907	1911	1890	1786	1838
12	1832	1842	1808	1831	1831	1828	1790	1693	1772	1839
13	1850	1864	1864	1864	1808	1784	1819	1820	1578	1600
14	1616	1594	1640	1648	1647	1620	1442	1464	1546	1626
15	1626	1624		1636		1629		1627		1633
16		1630		1630		1631		1638		1648
17		1654		1654		1638		1632	1631	1630
18	1584	1556	1470	1453	1449	1541	1564	1550	1606	1622
19	1604	1576	1480	1454	1478	1546	1688	1757	1769	1776
20	1760	1736	1678	1873	1888		1893		1883	
21	1889		1887		1872	1853	1852	1794	1873	1896
22	1907		1909		1913		1914		1914	
23	1909	1858	1740	1552	1360	1310	1140	1450	1772	1931

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 3- 8-1973
(DAY MO Y13)

HOURS	00	06	12	18	24	30	36	42	48	54
0	1954	1960	1970	1969	1876	1830	1923	1954	1989	1988
1	1969	1868	1591	1626	1788	1792	1810	1822	1842	1915
2	1853	1780	1492	1522	1609	1820	2030	2012	1922	1836
3	1760	1738	1694	1780	2000	2118	2126	2138	2142	2143
4	2144	2144	2142	2138	2134	2130	2123	2120	2118	2115
5	2110	2107	2103	2099	2090	2087	2084	2016	1932	1874
6	1864	1856	1849	1840	1855	1864	1780	1640	1530	1492
7	1413	1353	1336	1307	1288	1218	1176	1165	1110	966
8	828	714	597	452	415					
9	449					586				
10	760									
11	833					934		1020		
12	1097	1104	1123	1155	1172	1189	1215	1227	1246	1269
13	1288	1299	1309	1318	1319	1326	1333	1345	1346	1351
14	1371	1429	1469	1553	1547	1472	1222	1244	1160	1124
15	1206	1265	1288	1262	1332	1368	1476	1520	1612	1694
16	1884	1930	1958	1971	1972	1971	1970	1970	1970	1966
17	1952	1944	1942	1945	1951	1954	1956	1955	1952	1947
18	1936	1930	1922	1914	1905	1892	1876	1860	1848	1838
19	1830	1822	1811	1806	1785	1778	1776	1775	1782	1778
20	1784	1790	1808	1811	1825	1818		1840		1849
21	1858		1878		1890		1914		1887	
22	1914		1932		1960		1972	1952	1906	1972
23	2038	2062	2138	2185	2188	2194	2200	2209	2216	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 4- 8-1973
(DAY NO 216)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2227	2224	2234	2232	2168	2159	2148	2186	2196	2202
1	2254	2247	2234	2230	2221	2213	2211	2087	2032	1998
2	2044	2052	2106	2148	2188	2197	2205	2105	2109	2078
3	2060	2066	2082	2094	2206	2232	2278	2327	2341	2348
4	2352	2354	2340	2332	2307	2294	2289	2287	2299	2311
5	2286	2278	2281	2288	2267	2251	2254	2273	2344	2338
6	2345	2344	2356	2370	2367	2374	2379	2382	2382	2375
7	2376	2372	2369	2360	2353	2362	2365	2371	2378	2363
8	2350	2348	2361	2363	2360	2354	2352	2360	2362	2352
9	2355	2331	2319	2304	2322	2271	2328	2326	2303	2293
10	2330	2364	2362	2364	2368	2366	2298	2252	2300	2312
11	2312	2281	2278	2274	2262	2175	2137	2156	2206	2160
12	2136	2168	2229	2242	2247	2260	2270	2289	2293	2286
13	2292	2285	2282	2284	2300	2282	2283	2283	2291	2288
14	2280	2287	2288	2282	2283	2268	2263	2252	2240	2228
15	2221	2222	2219	2204	2195	2188	2198	2165	2092	2030
16	2054	2054	2097	2117	2116	2089	2118	2144	2113	2158
17	2146	2159	2163	2166	2166	2162	2142	2138	2136	2134
18	2130	2116	2102	2104	2109	2070	2034	2041	1955	1907
19	1879	1878	1891	1869	1854	1796	1774		1949	1938
20	1939	1934	1920	1918	1915	1905	1908	1939	1958	1950
21	1886	1898	1860	1923	1936	1934	1971	2002	2024	2066
22	2071	2076	2052	2062	2112	2138	2140	2150	2096	2127
23	2160	2168	2166	2136	2146	2130	2122	2132	2130	2140

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 5- 8-1973
(DAY NO 217)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2094	2069	2052	2031	2020	2007	2000	1988	1981	1986
1	1980	1984	1968	1981	1969	1972	1968	1982	1988	1974
2	1973	1984	1994	2000	2016	2036	2062	2097	2109	2160
3	2176	2206	2226	2240	2270	2286	2306	2314	2330	2345
4	2360	2383	2398		2430	2447	2473	2483	2487	2494
5	2508	2518	2535	2542	2547	2551	2556	2554	2558	2563
6	2558	2466	2400	2452	2488	2544	2542	2552	2550	2554
7	2576	2610	2614	2613	2600	2528	2498	2290	2184	2260
8	2352	2440	2434		2444	2569	2579	2585	2593	2503
9	2450	2394	2317	2314	2314	2444	2504	2530	2607	2614
10	2624	2636	2641	2652	2662	2679	2688	2696	2701	2703
11	2698	2665	2678	2679	2666	2608	2588	2490	2438	2441
12	2491	2500	2498	2491	2508	2545	2580	2654	2681	2684
13	2683	2684	2695	2698	2697	2694	2699	2701	2696	2694
14	2679	2658	2643	2640	2643	2642	2651	2660	2666	2667
15	2672	2680	2675	2668	2670	2688	2664	2652	2638	2645
16	2648	2646	2644	2665	2674	2682	2665	2646	2650	2644
17	2658	2673	2688	2712	2732	2730	2724	2706	2624	2554
18	2499	2478	2494	2503	2513	2527	2610	2700	2748	2757
19	2779	2780	2775	2755	2750	2762	2770	2782	2788	2791
20	2718	2684	2764	2764	2793	2793	2784	2756	2730	2709
21	2714	2714	2710	2710	2694	2692	2696	2692	2700	2696
22	2662	2620	2530	2494	2376	2384	2448	2580	2620	2614
23	2610	2610	2616	2620	2624	2616	2614	2617	2626	2606

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 6- 8-1973
(DAY NO 218)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2579	2506	2472	2354	2372	2364	2418	2526	2506	2444
1	2352	2299	2420	2454	2400	2455	2454	2438	2430	2436
2	2432	2438	2432	2431	2400	2388	2378	2377	2330	2274
3	2217	2232	2247	2266	2317	2302	2296	2296	2254	2265
4	2246	2224	2208	2136	2123	2060	2000	1890	1820	1831
5	1780	1755	1714	1728	1752	1748	1732	1730	1728	1740
6	1800	1881	1879	1894	1900	1976	1962	1912	1818	1856
7	1914	2039	2034	1978	1996	2122	2167	2188	2168	2114
8	2177	2210	2302	2422	2620	2786	2800	2754	2748	2750
9	2733	2620	2620	2616	2630	2652	2730	2746	2718	2640
10	2570	2544	2476	2450	2454	2492	2538	2560	2543	2526
11	2478	2414	2498	2474	2470	2414	2408	2400	2400	2410
12	2394	2415	2398	2380	2391	2370	2360	2368	2376	2390
13	2386	2378	2382	2378	2372	2358	2345	2341	2354	2370
14	2373	2340	2343	2322	2293	2286	2270	2260	2252	2239
15	2289	2294	2323	2264	2316	2325	2320	2332	2363	2402
16	2426	2410	2421	2415	2392	2384	2394	2399	2404	2410
17	2419	2439	2454	2456	2440	2418	2364	2395	2410	2440
18	2463	2480	2484	2498	2524	2547	2558	2572	2598	2618
19	2624	2651	2674	2700	2710	2707	2717	2714	2718	2720
20	2725	2735	2729	2711	2698	2690	2683	2700	2711	2712
21	2646	2524	2450	2398	2394	2406	2400	2408	2403	2398
22	2416	2445	2460	2460	2563	2560	2547	2656	2500	2450
23	2454	2474	2468	2459	2430	2370	2394	2470	2488	2490

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 7- 8-1973
(DAY NO 219)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2482	2470	2460	2380	2358	2383	2377	2390	2398	2412
1	2413	2392	2338	2335	2258	2228	2212	2216	2216	2228
2	2278	2308	2334	2362	2340	2386	2430	2443	2422	2406
3	2379	2391	2400	2410	2422	2454	2484	2542	2546	2440
4	2556	2566	2592	2592	2552	2532	2559	2568	2557	2544
5	2622	2620	2492	2548	2590	2592	2563	2534	2510	2527
6	2460		2390	2380	2382	2332	2316	2334	2396	2418
7	2444	2459	2476	2478	2476	2488	2492	2496	2491	2476
8	2459	2480	2484	2485	2491	2482	2486	2462	2431	2414
9	2395	2386	2367	2336	2330	2304	2277	2235	2211	2179
10	2180	2146	2133	2093	2075	2046	2039	2035	2027	2018
11	2010	1986	1977	1968	1950	1924	1919	1888	1882	1879
12	1860	1854	1856	1822	1808	1790	1768	1732	1722	1697
13	1708	1668	1666	1641	1644	1620	1610	1612	1586	1608
14	1584	1576	1580	1578	1568	1551	1560	1558	1548	1516
15	1462	1397	1337	1301	1276	1313	1312	1288	1268	1253
16	1249	1241	1237	1228	1214	1204	1188	1166	1166	1124
17	1091	1034	996	960	965	958	935	892	874	858
18	831	826	827	828	823	817	804	807	800	792
19	788	790	805	794	794	793	792	792	794	796
20	798	801	816	822	843	858	897	911	925	942
21	975	967	1020	1030	1087	1116	1130	1162	1186	1242
22	1247	1253	1245	1220	1175	1150	1176	1140	1110	1058
23	1062	1016	986	982	996	1000	1010	1024	1015	1038

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 8- 8-1973
(DAY NO 220)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	1060	1054	1053	1033	1060	1096	1107	1081	1053	1041
1	1034	1013	992	980	960	946	903	898	885	855
2	860	839	826	828	824	814	808	810	819	821
3	830	854	866	888	1023	1140	1233	1311	1358	1406
4	1425	1450	1484	1526	1552	1562	1568	1578	1586	1600
5	1608	1613	1610	1598	1593	1542	1484	1432	1444	1458
6	1465	1471	1488	1455	1472	1522	1568	1572	1584	1593
7	1598	1598	1601	1606	1622	1625	1620	1616	1614	1626
8	1612	1610	1609	1606	1608	1608	1574	1584	1571	1566
9	1564	1554	1525	1464	1442	1436	1439	1420	1429	1420
10	1366	1336	1301	1343	1303	1318	1317	1310	1337	1388
11	1412	1442	1504	1514	1502	1494	1496	1494	1473	1474
12	1477	1477	1479	1489	1514	1508	1485	1487	1497	1499
13	1499	1516	1524	1528	1531	1536	1530	1515	1528	1518
14	1498	1512	1498	1484	1460	1443	1418	1414	1416	1410
15	1424	1430	1435	1445	1448	1471	1481	1521	1518	1542
16	1564	1588	1638	1673	1700	1735	1748	1772	1814	1837
17	1869	1898	1900	1888	1900	1914	1911	1915	1918	1917
18	1918	1932	1926	1932	1936	1936	1992	2019	2034	2038
19	2031	2035	2060	2070	2085	2095	2110	2098	2076	2057
20	2052	2059	2064	2066	2067	2067	2069	2184	2188	2192
21	2194	2170	2145	2132	2140	2143	2140	2138	2139	2135
22	2126	2121	2124	2115	2108	2103	2101	2093	2094	2097
23	2086	2056	2048	2044	2053	2057	2055	2058	2058	2057

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 9- 8-1973
(DAY NO 221)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2049	2036	2028	2019	2006	1999	2000	2010	2014	2011
1	2006	1999	1983	1914	1950	1934	1918	1888	1900	1904
2	1912	1910	1918	1924	1926	1924	1924	1934	1934	1931
3	1921	1899	1886	1884	1872	1856	1846	1838	1824	1814
4	1814	1773	1748	1742	1804	1780	1796	1800	1804	1780
5	1766	1768	1764	1774	1752	1766	1760	1738	1725	1734
6	1676	1666	1654	1644	1650	1640	1667	1685	1716	1570
7	1474	1315	1165	918	626	377	348	418	418	501
8	676					841		906		1003
9		900		707		454				
10	520					562				
11	646	560	414	311	449	485	786	944	1009	1017
12	992	938	722	772	632	611	438	428	394	380
13	570	616	1112	1354	1358	1480	1588	1639	1668	1702
14	1720	1718	1784	1812	1826	1835	1849	1856	1867	1876
15	1880	1878	1872	1836	1864	1894	1900	1866	1934	1960
16	1978	1999	2010	2016	2019	2024	2030	2035	2041	2050
17	2055	2062	2064	2066	2065	2067	2073	2074	2076	2076
18	2064	2070	2091	2123	2131	2136	2112	2086	2100	2114
19	2152	2154	2152	2152	2132	2154	2183	2186	2185	2184
20	2185	2186	2189	2190	2190	2190	2182	2183	2180	2164
21	2178	2174	2162	2128	2100	2070	2033	1992	1963	1928
22	1912	1892	1888	1864	1858	1874	1876	1866	1876	1888
23	1908	1910	1901	1908	1918	1923	1927	1933	1936	1940

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 10- 8-1973
(DAY NO 222)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	1942	1944	1949	1954	1957	1959	1942	1920	1888	1856
1	1566	1554	1754	1751	1684	1630	1328	1138	1104	1070
2	1048	1006	1090	1158	1460	936	1910	1902	2039	2104
3	2186	2264	2283	2294	2289	2300	2308	2312	2317	2319
4	2326	2328	2336	2334	2334	2338	2340	2350	2357	2362
5	2368	2367	2373	2374	2372	2384	2393	2394	2400	
6	2428	2436	2446	2455	2461	2470	2478	2476	2484	2486
7	2483	2484	2474	2472	2470	2466	2457	2429	2420	2406
8	2403	2401	2403	2403	2403	2403	2403	2390	2383	2368
9	2368	2365	2355	2346	2333	2317	2258	2260	2250	2243
10	2247	2229	2211	2186	2149	2139	2097	2014	1908	1972
11	1806	1780	1780	1540	1342	1200	1126	912	714	506
12	430	404	298	226	120	122	126	129	129	141
13	156	154	168	218	275	332	419	501	508	536
14	481	505	522	540	540	652	742	960	927	1010
15	1182	1070	1176	1150	1184	1236	1262	1307	1342	1332
16	1224	1139	1061	1077	1108	1124	1130	1130	1141	1146
17	1191	1222	1220	1336	1436	1535	1685	1779	1806	1903
18	2052	2104	2142	2173	2219	2256	2268	2276	2282	2294
19	2300	2300	2318	2333	2336	2344	2364	2363	2318	2284
20	2289	2301	2315	2310	2305	2296	2308	2327	2344	2349
21	2368	2394	2414	2427	2446	2424	2421	2423	2420	2415
22	2391	2377	2372	2362	2357	2357	2366	2403	2414	2440
23	2438	2418	2372	2360	2345	2337	2365	2361	2367	2373

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 11- 8-1973
(DAY NO 223)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2380	2354	2324	2302	2280	2263	2233	2192	2184	2173
1	2163	2155	2133	2136	2115	2093	2084	2064	2066	2058
2	2048	2024	2011	2005	2010	2028	2044	2046	2041	2027
3	2048	2086	2104	2119	2139	2159	2162	2171	2184	2208
4	2240	2271	2299	2308	2328	2339	2354	2390	2404	2403
5	2410	2412	2416	2440	2456	2465	2470	2474	2479	2482
6	2484	2484	2484	2485	2485	2485	2485	2485	2484	2470
7	2515	2536	2550	2555	2556	2558	2559	2560	2560	2560
8	2561	2561	2561	2561	2560	2559	2559	2559	2558	
9	2556	2556	2556	2554	2554	2550	2550	2540	2540	2476
10	2400	2332	2264	2180	2132	2133	2140	2072	2028	1946
11	1830	1792	1778	1795	1837	1843	1856	1866	1877	1873
12	1894	1914	1938	1967	1971	1960	1937	1949	1974	2050
13	2119	2193	2264	2284	2290	2125	2086	2106	2240	2552
14	2609	2655	2673	2686	2686	2728	2798	2840	2896	2904
15	2906	2905	2872	2828	2774	2738	2680	2660	2420	2342
16	2218	2118	2035	1989	1990	2008	1996	2011	2041	2127
17	2216	2237	2247	2260	2251	2113	1854	1726	1648	1600
18	1591	1617	1616	1671	1722	1856	1880	1958	2018	2071
19	2050	2172	2300	2480	2520	2636	2792	2804	2805	2806
20	2806		2806		2807		2808		2808	
21	2809		2809		2808		2807		2805	
22	2804		2802		2801		2801		2800	
23	2800		2800		2800		2800		2800	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 12- 8-1973
(DAY NO 224)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2800		2800		2801		2802		2803	
1	2804		2804		2804		2804		2804	
2	2805		2805		2805		2805		2808	
3	2808		2810	2796	2774	2754	2746	2734	2726	2712
4	2701	2694	2683	2678	2670	2658	2648	2645	2638	2632
5	2615	2612	2590	2570	2544	2522	2498	2477	2456	2434
6	2416	2395	2378	2363	2352	2350	2354	2340	2376	
7	2360	2250	2149	2146	2130	2060	2012	1982	1989	2012
8	2037	2063	2074	2074	2071	2100	2202	2222	2198	2110
9	2042	2026	1930	1846	1793	1772	1784	1726	1725	1666
10	1590	1556	1498	1386	1321	1314	1273	1241	1206	1168
11	1138	1124	1120	1123	1116	1120	1113	1100	1078	1052
12	1025	996	963	926	891	860	861	630	642	760
13	793	788	800	812	800	774	844	842	842	852
14	870	882	891	899	898	898	894	893	897	911
15	934	956	1001	1041	1085	1134	1149	1178	1204	1233
16	1262	1286	1301	1312	1320	1335	1352	1394	1434	1455
17	1494	1537	1604	1700	1800	1950	1994	2050	2079	2080
18	2095	2112	2145	2186	2197	2215	2275	2327	2331	2365
19	2450	2556	2615	2616	2602	2592	2598	2610	2616	2622
20	2636	2652	2654	2633	2622	2615	2612	2608	2604	2600
21	2570	2549	2554	2562	2582		2627		2626	
22	2626		2625		2624		2624		2624	
23	2622		2622		2622		2621		2620	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
 DEPTH IN UNCORRECTED FATHOMS AT AN ASSUMED SOUND VELOCITY OF 800 FMS/SEC

DATE 13- 8-1973
 (DAY NO 225)

HOURS	00	06	12	18	24 MINUTES	30	36	42	48	54
0	2620		2620		2622		2626		2624	
1	2620	2619	2619		2617		2617		2617	
2	2613	2607	2582	2600	2604	2603	2602	2602	2602	2602
3	2601		2603		2600		2600		2600	
4	2600	2600	2599	2599	2598	2598	2598	2598	2598	2598
5	2598	2596	2596	2382	2595	2598	2597	2598	2596	2596
6	2592	2530	2494	2575	2580	2581	2582	2584	2584	2584
7	2583	2583	2583	2582	2582	2581	2580	2558	2404	2462
8	2496	2508	2524	2543	2572	2578	2581		2580	
9	2578		2574		2572		2571		2570	
10	2569		2568		2567		2566		2564	
11	2564		2562				2569		2567	
12	2556		2552		2551		2548		2546	
13	2543		2540		2536		2533		2530	
14	2527		2522		2518		2514		2506	
15	2499		2491		2482		2471		2460	
16	2420	2406	2384	2354	2352	2333	2319	2309	2282	2229
17	2206	2209	2242	2278	2302	2335	2338	2336	2311	2308
18	2341	2328	2259	2244	2223	2204	2192	2234	2280	2264
19	2253	2233	2205	2170	2078	2085	1970	1958	1780	1560
20	1312	1068	794	660	800	606	543	488	401	340
21	334	246	220	228	226	163	144	134	126	103
22	106	104	104							
23										

SECTION D

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 1- 7-1973
(DAY NO 182)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21		-43	-38	-41*20	-37*26	-43	-57	-48*44	-40*50	-42
22		-30* 8	-29*14	-28*20	-28	-36	-39	-32	-21	-5
23		10	1	-13*20	-11	14	41	52	66	85

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 2- 7-1973
(DAY NO 183)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	66	51	65	80	87	98*34	96*38	98	87	66
1	52	45	36	27	22	17*34	16*40	17	20*52	20*56
2	14* 4	15	8	-6	-15	-32	-47	-61	-70	-77
3	-85* 2	-83	-74	-66	-59*28	-56*34	-59*40	-62	-67*52	-65*56
4	-63	-48*10	-45*16	-50*20	-47*26	-48*32	-50	-57*44	-65	-76
5	-88* 4	-87*10	-87*14	-87	-90	-92	-91	-95	-96	-101*56
6	-104* 4	-107	-110	-111	-113*26	-109	-103	-94	-86	-73
7	-61	-48	-32	-17	-3	8	18	32*46	32*52	31
8	27	24	22	17	15	18	14	23	31	33
9	23* 4	23*10	25*16	21	11*26	13	8	4	13	7
10	5	10	9	13	29*26	2	-28	27	34	36
11	104* 4	105* 8	94	89						
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 3- 7-1973
(DAY NO 184)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 4-7-1973
(DAY NO 185)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9	25	-11	-47	-70	-81*26	197	175	138	98	59
10	137	148	120*16	115*22	124	135*32	141*38	139	131*52	117*56
11	137	141	134	111	82*26	70	55	51*46	46*52	46*58
12	45* 4	36*10	41	27	-1	-41	-62	-92	-118	-131
13	-131	-131* 8	-116	-118*20	-137*28	-132	-122	-122	-105*50	-77
14	-37	4	38	83*20	101	85	36	-27	-93	-144
15	-200* 4	-214*10	-211	-219	-203	-176	-140	-140	-102	-45
16	-3	33	75	120	152	168*32	177*40	175*44	144*52	145
17	113* 4	107* 8	105	102	98	89	74	59	51	46
18	37* 4	28	-3	-26	-53	-78	-85	-75	-28	16
19	69* 4	75* 8	70	43			-145	-202	-217	-202
20	-165	-111	-34	51	122	178	215	226	212	191
21	169	144	127	123	126	131	139	140	136	127
22	119* 2	124	135	142	133	94	34	-8	-21	-26
23	-36	-51	-62	-68	-77	-88	-101	-115	-138	-159

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 5-7-1973
(DAY NO 186)

HOURS	00	06	12	18	24	30	36	42	48	54
0	-169* 2	-162	-150*14	-134	-110*28	-89*34	-90	-53	2*52	12*56
1	8	-30	-101	-149	-196*28	-201	-177	-153	-128	-98*58
2	-101	-79*10	-71*14	-58	-35	-13	3	19	49*52	48
3	83	121	176	230	266*28	253*34	246	228	214*52	211*56
4	203* 2	191	171	146	116	82	56	16*46	14*52	6*58
5	6* 2	9* 8	22*16	22*20	17	-7	-25	-55	-84	-120*58
6	-127	-149*10	-146*16	-149	-113*26	-97	-65*38	-49*46	-60*52	-56
7	-52	-27	15	72	115	166*34	163	138	75	22
8	-24	-41	-27	-6	20	24	10	-9	-36	-64
9	-82	-76	-75	-51*22	-56	-36*32	-30	-12	14	34
10	55	76	95*14	119	136	150*34	149	146	136	99*58
11	82* 4	88	75*14	68*20	70*26	70	74	72	54*50	40
12	8	-11	-39	-67	-101*28	-103	-108	-96*44	-86	-62
13	-40	-24	-1*14	23	54	91*32	103			
14		80*10	87	80*22	78*28	76	71*38	78*44	79*52	76*56
15	74* 2	67*10	66*16	59*20	49*28	57*32	50	54*44	67	78*58
16	76	69	39*16	44	31*28	29	31*38	33	29*52	28
17	18	21	24	23*20	17	25	22	19	16	14
18	11	8	9	10	16	17	5	1	-6	-12
19	-18	-28* 8	-23	-23	-33	-29	-31	-33	-35	-37*58
20	-38	-40	-39*14	-39	-33*28	-39	-36	-30	-42	-42*58
21	-43	-44	-44	-42	-47	-45	-28*40	-34	-18	-9
22	-10	6	27*16	24	42	49	52*40	45	45	53
23	52	46	38	30	23	15	3	-8	-21	-39

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 6-7-1973
(DAY NO 187)

HOURS	00	06	12	18	24	30	36	42	48	54
0	-45* 4	-38* 8	-47*16	-48	-60*28	-67*34	-80*40	-73	-80*50	-92*58
1	-83		-76	-49	-27	-8	31	56	97	127
2	146	174	194*14	203	212*28	211	207	198	186	163
3	120	78	17	-43	-108	-144	-181	-188	-198	-181
4	-168	-170	-167	-166	-180	-192*32	-192	-185*44	-180*50	-163
5	-130* 4	-118* 8	-109	-90*22	-96	-81	-78*38	-64	-59	-54*56
6	-60	-48* 8	-49	-55*20	-62*26	-85*34	-86*40	-89	-102*50	-108
7	-117	-128	-141	-157*20	-167	-187*34	-182	-193*44	-180*52	-179*56
8	-175* 4	-180	-178	-169	-174	-153	-148	-124	-118	-102
9	-96* 2	-81	-75	-38*22	-40	-12*32	1*38	11	20	30*58
10	19* 4	9*10	2*16	7*22	9*26	2*32	12*40	11		
11	-24				-93	-114	-109	-108*38	-116	-113
12	-108	-93	-87	-78	-73	-70*28	-81*34	-74	-80	-91
13		-119	-124	-105*16	-108	-88*26	-100*34	-98*40	-97	-93*50
14	-81*56	-65	-50	-39	-22	-7*26	5*32	12*40	5*46	-7*52
15	0	0* 2	-5	-16	-41*22	-44	-52*32	-54	-49	-32*52
16	-37	-20	-13*10	-26*16	-29*22	-37*26	-47	-72*40	-77	-83*50
17	-77	-22	42	107	138	123	102	155	217	232
18	231	239	250	253	258	231*28	234	217	186	165
19	135	110	91	76	59	44	19	12	-10*46	-13
20	-27	-44	-59	-74	-87	-104	-105*32	-112*38	-120	
21	-143*58	-144	-141	-141	-148	-159*26	-159	-144	-101	-48
22	-10	-7	-26	104	465	715	712	599	456	285
23	186	130	83	10	-42	-59	-44	1	54	89

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 7-7-1973
(DAY NO 188)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	89	106	129*14	134*20	124	91	46	19	-16*52	-35*58
1	-28	-33	-38*16	-42*22	-41	-24*34	-25	21*46	35*50	42
2	53* 4	52	48*14	44	35	52*32	64	83	125	157*56
3	161* 2	151	112	77	28	-5	-56	-101	-136	-173*56
4	-186* 2	-186	-179*14	-173	-162	-144*32	-105*40	-94*46	-95	-110
5	-137	-186*10	-183	-190	-183*26	-163*34	-164	-115*46	-104*50	-94
6	-87	-92*10	-93	-98*20	-111*28	-105*32	-103	-97	-76	-34
7	18	76*10	75	102	119	136*32	143	147	153*52	152
8	178	205	243				307	288		
9										
10										
11										
12										
13										
14										
15										
16					212	225	224*38	201*46	192*52	186
17	171	156	147	140	136	141	152	169	190	201
18	206	205	183*16	188	179	180	179	178	162	153
19	114	83	70	60	52*26	44	22	1	-6	-18
20	-33* 4	-37*10	-34	-27*20	-17*28	-22	-8*38	7	18	44*58
21	36	51* 8	65*16	59*22	52	32	4	-27	-63	-91
22	-111	-120	-114	-102	-84	-60	-31	4	38	70
23	89	99	99	96*22	92	85*32	74	60	44	22

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 8-7-1973
(DAY NO 189)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	7	1*10	0	1	4*26	-1*34	-3	7*46	6	16
1	18* 2	17	21	15	-1*28	-5	-31	-61	-91	-131*58
2	-130	-144* 8	-152*14	-158*20	-165	-174	-184	-190	-186	-175
3	-162* 2	-146* 8	-134*16	-139	-121	-98*34	-101	-81*44	-64	-48
4	-38	-20* 8	-7*16	-19*22	-13	-30*32	-39	-43	-40*52	-49
5	-42	-46	-45*14	-37*20	-23*26	-11*34	-10*38	-13	3*52	-1
6	24	34* 8	49	61	15	10	12	81*44	83*50	75*58
7	63* 4	54* 8	45	29	45	49	45	24	35	35
8	48* 4	46	40	26	45	82	54	47	62	68
9	78		111*16	97*22	79*28	4	24	42	24	6
10	-12* 2	-18* 8	-20*14	-33	-25	-25	-26	-24	-18	-5
11	3	10		10	9	4	-8	-35*44	-61*52	-70
12	-99	-117	-134	-152	-188	-139*32	-138*40	-140	-137	-137
13	-151* 4	-142	-138	-137	-139	-140	-128*38	-118*44	-96*50	-60*58
14	-51* 2	-37* 8	-32*14	-3*22	-9	10	5	17	17*50	32
15	33* 2	33*10	25*16	23*22	17	5	17	4	6	4*56
16	-2* 4	-19*10	-10	-12	-12	5	17	23	24	11
17	-22	-39	-55	-64*22	-57*28	-58	-56	-49	-35	-25
18	-16	0	17	40	64	64	54*40	61	62	72
19	80	104	109	107	88	70	57	31	34	36
20	38	39	57	62	80	79	57	43	18	-3
21	-21	-44	-82	-101	-104	-108	-126	-193	-243	-244
22	-212	-171	-187	-286	-346	-233	30	197	235	255
23	332	384	346	260	263	275	233	98	62	114

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 9-7-1973
(DAY NO 190)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	160* 2	187	240*14	231	205	182	128	65	3	-52
1	-111* 4	-107	-122*14	-120*22	-111*26	-97	-80	-60	-40	-18
2	4	38* 8	56	81	118*28	109	52	-11*44	77	388*58
3	382	264	159	102	40	-20	-60*38	-56*44	-45	-52
4	-73* 4	-72	-60*14	-76*22	-86	-110	-113	-101	-46*50	-4*58
5	-61	-127	-186	-250	-303	-287	-238	-156	-74	-5
6	78	153	206*16	200	210	194*34	196	131	42	-59*58
7	-46	12	102*16	98	55	19*32	12	-9	-19	86
8	223* 2	178	-17	-167	-207	-219	-225	-203	-159	-137
9	-135* 2	-113	-78	-48	-34	-60*34	-72	-55*46	-59	-45
10	-60	-126								
11						90	57	7	-44	-96
12	-132	-156* 8	-176	-188	-186	-150	-86	-13	34	74
13	118* 4	116	108*14	94	72	50	4	-50	-118	-126*58
14	-127	-69*10	-70	-109*22	-117	-140	-157*38	-167	-206	-323
15	-496* 4	-479	-445	-342	-195	-104	-39	-17	11	132
16	237	257	216	147	75	52	43	62	62	31
17	-7	-121	-228	-283	-214	-48	17*40	15	-12	-31
18	-56	-83	-145	-190	-185	-156	-134	-171	-226	-229
19	-192	-164	-125	-52	-7	15	0	-90	-198	-256
20	-313	-349	-318	-227	-107	-2	37	41*46	48	36
21	12* 4	6* 8	6	24	64	103	123	135	148	130
22	116	121	137	139	100	24	-71	-190	-254	-286
23	-285	-283	-257	-216	-152	-97	-71	-35	-4	-2

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 10- 7-1973
(DAY NO 191)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	5	52	94	152	202	233	235	157*46	166	228
1	283	245	153	48*20	52	102	158*40	155	81	-75
2	-222* 4	-203	-189	-222*22	-214*26	-216	-223	-258	-293*50	-283
3	-242	-175	-74*16	-69*20	-93*28	-112	-153	-203*44	-203*52	-209
4	-225	-271	-331	-341	-290	-238	-202	-146	-85	-23
5	26	70	128	199	299	427*34	417	389	356	294
6	224	176	122	71	33	-12	-52	-85	-103	-135
7	-177	-204	-86	56*20	14	-31	9*40	5	-40	-88
8	-31	42	-7	-52	183	377	321	307	237	255
9	249	111	6	18*22	20	96	28	-252*46	-238	-100
10	-199	-433	-598	-784	-885	-777	-632	-546	-465	-387
11	-307	-220	-130	-49	12	9	-12	-37	-37	15
12	121	222	309	360*20	332	243	128	10	-38*50	-58
13	-120* 4	-123* 8	-119	-82	-43*26	-50	-85	-126*46	-121	-80
14	-9	70	171	302	371	414	583	657	576	361
15	286	285	262	109	-168	-381	-438	-663*44	-644	-571
16	-216* 4	-228	-429*14	-388	-169	189	450*38	487*44	337	-664*58
17	-628	-419	-252	-173	-196	-262	-295	222	-81	57
18	183* 4	181	126	32	-60*26	-41	9	43	-72	-161
19	-200	-170	-15	85	34	-10	-47	156	-264	-335
20	-284	-121	-36	-21	-26	-39	-60	-99	-148	-183
21	-196	-193	-154	-81	-22	34	79	112	137	146
22	135	74	-4	-61	-136	-201	-220	-224*46	-228	-247
23	-221* 4	-212*10	-214	-228	-263	-242	-198	-161	-136	-101

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 11- 7-1973
(DAY NO 192)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-75	-40	10	34*22	23	-103		-36	83*52	79
1	16	-120	-86	-61	-98	-184*34	-179	-168	-92*52	-100
2	-134	-187	-196	-157	-130	-143	-163	-140	-121	-76
3	-41	-3* 8	-37	-73	-39	-46	19	137	148	130
4	163* 2	146	75	-39*22	-30*26	-10	6	-34	-122*52	-126
5	-68	7	90	194*22	190	163	-7	-292	-465	-388
6	-193	-8	93*14	45	14	0	94	196	127	-9
7	-106	-138	-125	-50*20	-64	-140	-215	-278	-319*50	-289
8	-193	-125	-86	-79	-168	-125	-73	-54	20	19
9	-17	-42*10	-45	-49	-31*26	-37				
10					-164	-203	-298*44	-252*52	-256*56	
11	-243	-184	-130*16	-134	-163	-210	-251	-280*46	-277	-270
12	-236	-147	-56	-18	-1	-7	-26*40	-28	-24	-59
13	-123* 4	-134	-150	-189	-211	-220	-225*40	-227	-233	-264
14	-298	-311	-300	-272	-226	-167	-101	-56	-23	49*58
15	47	5	-40*14	-26	17*26	-2	-109	-210*44	-187	-128
16	-62* 4	-66								
17										
18										
19										
20			10	70	73	82	234	278	258	130
21	136	107	90	110	151	218*34	85	93	118	125
22	127	117	102	4	-9	-30	214	198	161	-184*58
23	82	33	17				-54	-87	-127	

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 12- 7-1973
(DAY NO 193)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-202	-287*10	-281	-239	-205	-170	-145*38	-157	-193*50	-184
1	-160* 2	-164	-167	-185	-214*26	-204	-172*38	-179	-191*50	-187
2	-168	-140	-112*16	-113	-127	-147	-164*38	-150	-65*52	-70*56
3	-82	-101	-108	-115	-134*26	-130	-125	-118	-106	-105
4	-98	-79	-63*16	-64	-63	-54	-25	17	39	38
5	39	62	79	49	2	-47*34	-41	6	25	128
6	320* 4	317	81*16	91	-41*26	-132*32	-249*38	-136	-1	125
7	330	444	395	272	130	165	212	255	326	361
8	306	245	189	127	98	130	187	227	271	346
9	412	436	374	233	102	45*34	46	25		6
10	15* 4	17	31	67*20	57	26	27	56*46	46*50	85
11	213	177	165	182	198	209	180	111*46	115	214*58
12	213* 4	203	130	20	-138*28	-124	-209	-273	-315*50	-279
13	-184* 4	-222	-303	-193	-299	-204	-288		-3049	
14										
15										
16		291	192	71						
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 13- 7-1973
(DAY NO 194)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2				71*22	81*26	72	-9	-164	-321*52	-311
3	-249	-216	-172	-137	-157	-236	-381	-489	-456	-384
4	-349	-430*10	-420	-399	-375	-304	-146	-29*44	-49	-126
5	-167	-174	-148	-91	-12	25	-15	-124	-267	-352*56
6	-326	-211	-122	-17	65*26	84	222*40	198	29	-97
7	-145	-112	-57	9	98	143	107	70	61	33
8	0	-34	-82	-137	-184	-213	-217	-200	-200	-217
9	-252*4	-255	-249*16	-248*20	-247	-241*32	-232	-205	-158	-106
10	59	306*8	247	49	-43	-82	-201	-279*46	-281	-318
11	-390*4	-388	-495*16	-494	-271	199*32	25	-183	-272	-343
12	-436*4	-429	-333	-278	-329	-372	-269	-214	-167	-191*58
13	-191*2	-186	-191	-244	-328	-419	-484	-568*44	-533	-421
14	-237*4	-245	-372	-543	-587	-610	-571	-529	-498	-466
15	-503	-538*8	-510	-437	-363	-304	-225	-147	-82*52	-98
16	-129	-134*10	-138	-107	-70	-53	-100	-185	-228	-253
17	-244	-215	-186*14	-179*20	-168	-160*34	-162	-141	-156	-145
18	-92	-75	-71	-34	40	93	26	-76	-126*52	-128
19	-135	-165	-262	-247	-162	-124	-139	-214	-305	-302*56
20	-300	-343	-369	-418	-386	-336	-282	-205	-127	-78
21	-30	21	83*14	85	81	53	48	70	124	162
22	118	54	134*16	133	92	49*34	62	95	160	253
23	282	191	31	-12	-45	-126	-177	-200	-228	-237

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 14- 7-1973
(DAY NO 195)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-220	-186* 8	-209	-292	-412	-519	-555	-518	-419	-310
1	-211	-143	-92	-66	-70*28	-66	-91	-111	-132	-133
2	-128	-126*10	-125*16	-118*22	-120	-85	-42	-7	37	71
3	104	121* 8	105	80	38	0	-51*40	-47	-30	10
4	70	121	172	223	246	225	161	82	10	-32*56
5	-19	22	47	67	114*28	117*32	91	12*46	18	51
6	84* 2	109*10	107	86	67	80	49*40	51	86	124*58
7	115* 2	93	35*16	27	-13	-123	-262	-331*46	-339	-378
8	-418* 2	-398	-355	-338	-327	-390	-517	-561	-512	-386
9	-314	-199* 8	-196*16	-198	-207*26	-239*34	-238	-268	-296	-307*56
10	-283	-242	-192	-158	-119	-115	-162	-256	-335	-372
11	-369* 4	-371	-387*14	-376	-274	-161	-125	-160	-207*52	-182*56
12	-195	-238	-200*14	-290*22	-259	-81*32	-138	-340*46	-321	-193
13	-103	-82	-110	-145	-113	-35	65	123	135	138
14	163	204* 8	187	164	131	112	83	56	32*52	28
15	-12	-28	24	113	176*28	166	118	80*46	72	46
16	-35* 4	-32	9*14	0	-38	-97	-190*40	-186	-216*52	-225
17	-251* 2	-230	-159	-107	-94	-135	-265	-490	-672	-751
18	-481	-191	-71	-96	-19	-248	394	262	-56	-222
19	-285	-388	-415	-217	53	121	76	8	-83	-189
20	-299	-449	-677	-795	-677	-517	-331	-264	-411	-500
21	-515	-626	-831	-745	-580	-511	-472	-463	-454	-447
22	-413	-360	-345	-382	-385	-344	-260	-175	-126*50	-147
23	-264	-400	-560*16	-552	-443	-364	-417	-483*46	-490	-549

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 15- 7-1973
(DAY NO 196)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-569	-480	-391*14	-383*20	-358	-318	-283	-147	23	152*56
1	136	105	52	16	15	50	100	153	210*52	206
2	171	141	66*16	53*22	67	112	203*40	197	156	80
3	51* 4	49	62*16	52	-1	-75	-112	-60	26	139
4	180	133	55	16*20	13	11*34	6	39	62	87
5	131	170* 8	161	143	140	93	-55*40	-44*44	-46	-89
6	-166	-181* 8	-148	-117	-142	-222*32	-166	10	236*50	204
7	101* 2	125	152	133*20	143	188*34	185	211	210	161
8	77	4	-24	-19	1	-19	-108	-125	-68	-146
9	-208* 2	-156	-87	1	49	62	63	71	92*50	71*58
10	67	68	63	39	-5	-36	-53*38	-63*44	-66	-63*58
11	-71	-44	9	128	315*28	307	180	-51	-218	-267
12	-215	-112	1	104	164	191	192	150	101	62
13	-3* 4	-4	48	125	99	-7	-178	-220	-91*50	-112
14	-248* 2	-227	-339*16	-329	-117	333*32	167	-270*44	-266	-131
15	57	160	76	-134	-299	-340	-331	-306	-246	-206*58
16	-210* 2	-203	-138	-53	11	40	68	117	156	195
17	230	225	178	118	57	18	-17	-46	-69	-75
18	-106	-135	-169	-196	-220	-251	-274	-280	-333	-450
19	-562	-601	-536	-467	-364	-235	-176	-144*44	-125	-118
20	-133	-160	-218*16	-227	-196	-137	-100	-83	-28	16
21	97	110	76	53	20	43	19	-105	-250	-405
22	-451	-374	-283	-82	90	138	-66	-263	-306*52	-296
23	-253	-216	-152	-103	-94	-113*32	-97	-60	-17	79*58

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 16- 7-1973
(DAY NO 197)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	97	156	223	279	272*28	275	264	261	263	260*58
1	252	214	165*16	176	205	261	278*40	264*46	255*50	269*56
2	213* 4	214	235	187	129	-7	-131	-157	-298	-425*56
3	-374	-145	152	433	620	671	622	535	414	291
4	190	103	32*14	39	68	90	119	158	200	267
5	372	421	361	300	259	205	182	181	133	50*58
6	62	103	158*14	132	95	75	38	-17*46	-21	-21*56
7	-7	26* 8	0	-127	-242	-292*34	-297*40	-299*46	-306*52	-314
8	-389	-474	-396	-188	-6	117	243	366	396	482
9	512	480	467	506	624	755	838*38	790	621	443
10	328	258	212*14	234	272	319	364	341*44	358	365
11	240	111* 8	139	188	183	164	125	57	-32*52	-18
12	30	11	-125	-262	-366	-415	-392	-317	-229	-192
13	-217	-308	-427	-514	-505	-463	-404	-346	-287	-242
14	-189	-80	26	125	229*26	201	-18	-297	-488	-589*56
15	-592	-533	-412	-366*22	-363	-404	-423	-400*44	-375	-340
16	-139	62*10	50	-22	-22	26	21	-1	-28	-61
17	-100	-153	-190	-247	-314	-365	-407	-462	-513	-554
18	-565	-492	-307	-105	89	240	277	214	91	-10
19	-73	-62	24	147	174	79	-9	-59	-143	-327*56
20	-292	-288	-339	-386	-367	-258	-233	-280	-263	-278
21	-356	-135	-10	-60	-48	-40	-185	-467	-219	22
22	182	152	122	193	198	137	98	45	-43	-122
23	-163	-156	-95	-40	-21	5	28	17	-26	-202*58

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 17- 7-1973
(DAY NO 198)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-247	-366	-401	-359	-292	-214	-131	-55	13	80
1	-135* 4	133	105	64	21	-18	-59	-72	-81	-64
2	-15	3	-47	-189*22	-187	-156	-103	19	92	65
3	-24	-18	-63			-189	-214	-192	-135	-80
4	-55	-96	-171	-224	-237	-230	-221	-232	-275	-304
5	-263	-162	-59	5	44	-20	-153	-2	424*50	360
6	109	-91*10	-90	-74	-19	57	162	234	181	24
7	-92* 4	-90	-2*16	-5	-56	-81	14*38	-18	-115*50	-187
8	-635* 2	-573	-378	-233	-76	-22	32	-16	-155	-274
9	-321	-184	-22*14	-54	-238	-610*34	-592	-402	-178	-91
10	-173* 4	-163	-117*16	-116	-101	-68	-1	-60	-224*50	-162
11	181	526	619	474	161	-128*32	-115	-130	-163	-237*58
12	-230* 2	-235	-256	-273	-312	-351	-419	-494	-525	-563*58
13	-561	-544	-515	-432	-351	-284	-169	-46	32	139
14	242	184	79*16	80	127*26	100	29*40	34	113	206*56
15	148	-22	-175	-295*20	-249	-45	60	-4	-149	-206
16	-92	198	328	203	0*28	21	159	22	-362	-749*58
17	-712	-387	-87	131	211	237	260	260	242	222
18	220	227	203	155	165	198	190	159	129*52	130
19	115	33	-102	-171	-114	-50	8	52	23*52	20
20	-32	-144	-288	-371	-375	-374	-350	-348	-328	-307
21	-267	-253	-289*16	-288	-282	-279	-281	-284	-277	-245
22	-210	-217	-261	-312	-330	-339	-353	-363	-331	-287
23	-255	-213	-173	-157	-157	-158	-123	-151	-214	-232

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 18- 7-1973
(DAY NO 199)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-237	-319* 8	-303	-272	-333	-376	-370	-333	-253	-155
1	-50	6* 8	-4	-16	0*28	-1	2	22	52	87*56
2	69* 4	71	55	20	-32*28	-31	-19	-51*44	-40	-10
3	13	-1	-22*14	-17	-5	7	39	103	174	226
4	253* 4	252	247	229	203	171*32	168	200	262*52	261
5	239	228	249*16	241	150	81	63	75	60	-7
6	-105	-150	-112	-50*20	-63	-144	-284	-389	-447	-481
7	-431	-359	-315*14	-319*20	-315	-305	-251	-193	-167	-144
8	-130	-118	-92	-44	13	43	39	28	-11	-85
9	-166	-206	-224	-259	-281	-289	-363	-444	-496	-476
10	-402	-303	-202	-90	-16	-3	-2	19	65	130*58
11	124* 4	129	155	114	57	27	7	-16	-25*52	-27
12	-30* 2	-34*10	-36	-74	-172	-304	-334	-319	-274	-204
13	-163	-133	-94	70*22	69	43	1	-43	-69	-85*58
14	-81	-41	-8*14	-10	-14	-22	-30	-25	18	108
15	181	195	196	200	210	220	204	150	90	57
16	53	61	75	69	59	81	147	192	156	70
17	10	34	228	405	489	562	632	595	509	416
18	352	323	379	510	596	639	661	676	716	673
19	549	382	202	83	-17	-140	-242	-28	165	241
20	304	376	405	430	432	335	208	174*44	169	125
21	30	-60	-114	-155	-206	-296	-393	-420	-379	-342
22	-331	-294	-229	-102	-229	-209*32	-249	-349	-412	-423
23	-368	-325	-256	-206	-126	-68	-50	-44	-24	-7

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 19- 7-1973
(DAY NO 200)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	50	88	122	154	165	161	187	290	454	704*58
1	688	471	28*16	40	434	704	519	247	97	3
2	-82	-120	-114	-79	-8*26	-39	-151	-279	-511*52	-509
3	-467	-412* 8	-465	-705	-509	-295	-185	-151	-109	-9
4	97	175	220*14	166*22	194*28	193	169	268*46	255	79
5	-103	-175	-195	-177	-110	-46	-97	-243	-382	-435*58
6	-437	-415	-320*16	-322	-369	-474*34	-458	-310	-151	-73
7	-72	-124	-177	-238	-270	-181	-30	75	100	76
8	53* 4	54	92	104	-1	-233	-320	-216	-80	17
9	73	42	-61	-151	-238	-318	-355*38	-333	-268	-195
10	-140* 4	-145	-164	-187	-206	-191	-138	-101	-64	-4
11	55* 4	47	-5	-72	-103	-96	-55	27	104	156
12	187	202	213	216	226	232*32	229	232	249	258*56
13	249	212	129	26	-34	-53	-58	-59	-59	-84
14	-141	-216	-247	-248*22	-249	-241	-236	-225	-216	-203
15	-174	-123	-65	9	92	117	55	-55	-130	-191
16	-238	-271	-301	-296	-272*26	-281	-321*40	-316	-269	-216
17	-190	-197	-204	-177	-155	-162	-187	-246*46	-241	-186
18	-103	-64	-61	-75	-120	-135	-156	-176	-183	-176
19	-165	-179	-184	-183	-184	-206	-231	-245	-223	-183
20	-165	-160	-154	-161	-195	-239	-250	-230	-229	-257
21	-310	-299	-259	-250	-244	-225		-196	-192	-185
22	-165	-154	-154	-159	-157	-154	-156	-153	-159	-142
23	-86	-51	-12	20	54	51	6	-76*44	-66	-43

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 20- 7-1973
(DAY NO 201)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-36	-75*10	-73	-59	-30*28	-33	-49	-91	-145	-172
1	-153	-124	-116*16	-119	-128	-139	-142	-153	-180	-209
2	-216* 2	-213	-210	-205	-200	-186	-147	-112	-105	-118
3	-127	-124	-114	-99*22	-100	-118	-163	-211	-242	-276
4	-341	-415	-456	-491	-507	-458	-260	-201	-166	-131
5	-177* 2	-157	-83	21	112	151	163	174	191*52	190
6	180	172	161	131	80	36	137	201	115	-166*58
7	-154	84* 8	-39	-209	-255	-279	-291	-241	-26	181*58
8	167	31	-144	-269	-341	-397	-445	-435	-330	-176
9	-42	1	-41	-113	-189	-269*32	-252	-116	51	46
10	-112	-281* 8	-264	-202	-111	-45	-59	-32	36	79
11	83	66	36*14	7	-22	-55	-77	-98	-56	-9
12	13	70	185	299	378	422*32	401	316*46	317	334
13	404* 4	403	360	323	376*26	358	239	93	-22	-226*56
14	-190* 2	-229	-137	-88	63	176	286	366*44	310	131
15	-72	-150* 8	-141	-93	-39	-9	3	7	3	1
16	1* 2	8	15	6	-13	-34	-42	-33	-22*50	-22
17	4	65*10	64	47	22	-10	-45	-78	-108	-121
18	-108	-76	-45	-22	-8	-3*34	-4	-8	-11	-22
19	-24	-5	22	49	64	72	69	43	-7	-69
20	-116	-132	-113	-84	-66	-67	-98	-148	-189	-196
21	-175	-148	-126	-105	-73	-32	14	48	73	81
22	85* 4	84	75	53	26	0	-13	-9	3	14
23	23	30	33	31	24	11	-1	-15	-24	-25

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 21- 7-1973
(DAY NO 202)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-20	-13	-5	5	18	29	34	32	27	18
1	6	3	-3	-11	-18*28	-19	-16*38	-18	-25	-41
2	-64	-89	-119	-142	-161	-175*34	-176*40	-173	-167	-158
3	-145	-129	-110	-93	-79	-64	-43	-20	-2	10
4	19* 2	19	10*14	18	14	11	3	-8*46	-7	-11
5	-15	-20	-26	-29	-33*28	-35*34	-38*40	-40	-37	-33
6	-28	-18	-13	-4	5	14	22	31*46	30	26
7	23	21	24	28*20	25	23*32	23	25	34	48
8	67	83	92	88	81	71	60	40	22	10
9	1	-2	-2	0	3	8	11	14	13	8
10	-4	-17	-32	-47	-64	-77	-88	-87	-76	-59
11	-48* 2	-49	-58	-77	-94	-101	-94	-81	-66	-44
12	-15	13	38	57	66*26	65	64	65	75	86
13	107	126	139	140	127	106	94	95	110	141
14	162	152*10	154	194	297*26	246	125	70	54	43
15	24	-12	-47	-68	-75	-58	-60	-81	-99*52	-97
16	-83* 4	-87	-112	-128	-123	-104*32	-107	-110	-101	-84
17	-65	-42	-19	-2	13	38	53	46	29	8
18	-20	-59	-112	-145	-146	-117	-80	-45	-18	-9
19	-16	-21	-18	-16	-23	-28	-27	-25	-20	-7
20	7	20	19	4	-15	-32	-49	-67	-92	-123
21	-150	-164* 8	-155	-130	-108	-91	-80	-74	-71	-87
22	-104* 2	-94	-82	-44	-14	-9	-29	-57	-69	-57
23	-47	-93*10	-91	-55	8	65	81	83	75	58

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 22- 7-1973
(DAY NO 203)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	34	18	14*16	13	21	33	47	51	62	74
1	72	58*10	59	69	94	111	120*38	119*44	120*50	123*56
2	121	113	94	65	18	-55	-158*40	-153	-108	-50
3	93	179* 8	158	110	65	29	3	-10	-15	-15
4	-7	4	11	19	22*26	20	24	34	50	69
5	81	77	63	54	42	22	-1	-12	3	23
6	5* 2	18	63	95	107	78	17*38	52	140	215
7	247	218	157	67	-46	-185	-302*38	-291	-276*52	-280
8	-317* 2	-257	-55	-14	-71					
9										
10										
11										
12										
13	-50	-198* 8	-82	-147	-21	-184	-408	-333*46	-506	-340
14	-209	-128* 8	-127	-83	-21	21	56*40	55	27	-12
15	-55* 4	-48	-16	45	124*26	-45*34	80*40	51	-24	-42
16	-29	-16* 8	-15	-14	-9	-18	-41	-44	-55*50	-42*56
17	-53	-68	-69	-67	-60	-37*32	-42	-53	-52	-52
18	-57	-56	-37	-11	0	6	1	-4	14	40
19	65	86* 8	61	28	0	-18	-25	-34*44	-38*50	-31
20	-12	9	12	1	-19	-87	-168*38	-160	-137	-80*58
21	-78* 2	-82	-63	-33	-16	-39	-79	-98	-90	-59
22	-51	-25	0	41	77	59	66*40	58	52	-4
23	-56	-65	-85	-56	-1	9	60	86	57	18

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 23- 7-1973
(DAY NO 204)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	9	3	-19	5	20*26	39	57	70*46	63*50	77
1	91* 4	87	47	-1	-54	-94	-123*38	-128	-126	-139
2	-111	-74	-46	-44	-39	-32*32	-16	13	47*50	37
3	50	40	50	57	65	71	58	22	-37	-92
4	-122	-124	-120	-127	-121	-119	-101	-90	-86	-95
5	-85	-58	-44	-15	36	47	43	50	69	120
6	136	117	75	15	-38	-90	-140	-178	-174	-26
7	126	208	242	226	162	130	114	80	259	
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 26- 7-1973
(DAY NO 207)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	71* 2	-91*10	-21	-91	-265	-431	-541	-496	-384	-278
13	-198	-176	-129	-61	-17	10	33*38	27	11	0
14	-29* 2	-25	-6	3	10	-1	-87	19	-68	-97
15	-57	17* 8	-18	-213*22	-211	-175	-164	-138	-99	-73
16	-59	-50	-24	16	44	65	51	23	-19	-57
17	-96* 4	-94	-86	-42	3	19	6	-41	-63	-61
18	-55	-53	-66	-100*22	-97	-77*32	-80	-84*46	-83*50	-85
19	-81	-70	-82	-113	-143	-187	-170	-154	-92	-40
20	-19	-13	-13	8	16*26	16	28	44	44	37
21	31* 4	33	31	17	-12*26	-22*34	-26*38	-19	2	18
22	20	20	4	2	-3*26	-7	-1			-46
23	-54	-65	-69	-72	-80	-73*32	-77*38	-71	-67	-63

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 27- 7-1973
(DAY NO 208)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
0	-58	-38	3*16	1	-22*26	9*34	0	-70	-109	-92
1	-80	-94	-121	-143	-117	-84	-70	-40	-13	8*56
2	-7	-33	-33	-15	2	30	52	73	93	108*58
3	107	99	69	39	17	21*34	17	-4	-24	-35
4	-47	-71	-100*16	-99	-77	-40	-16	9	23	1
5	-30	-62	-79*14	-80	-68	-38	-26	-48	-66	-77
6	-87* 2	-82	-67	-54	-39	-57	-92	-118	-125	-113
7	-106	-102	-83	-35	20	45	7	-147*46	-145	-59
8	6	-29	-96	-130	-127	-104	-73	-91	-125	-136
9	-80	-28	16	18	-19	-69	-103*38	-98	-94	-106*56
10	-101	-76*10	-83	-73	-22	66*32	63	16*46	24	81*58
11	79	49	-11	-63*20	-46	-7*32	-26	-117	-163	-119*56
12	-128* 2	-105	-73	-171*22	-170	-133	-103	-51	-2*50	2
13	76	160	238*16	234	144	34	-67	-157	-176	-286
14	-351	-170	83	203*20	118	-25*32	32	-167*44	47	348
15	300	43	-188	-491	-703*26	-648	-337	-83	23	-185*58
16	-410* 2	-131*10	-118*16	-243*22	-227	-380*32	-309	-125*46	-118*52	-153*56
17	94* 4	64	-19	38	-264	-462	-327	190	-231	-199
18	-181	-61	-45	134	133					
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 28- 7-1973
(DAY NO 209)

HOURS	00	06	12	18	24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

Continued Day 213

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 1- 8-1973
(DAY NO 213)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14	224	-110*10	-162	-268	-390*28	-480*34	-195*40	-196	-308	-365
15	-463* 2	-436	-364	-254	-176	-97	-22*40	-29*44	-19	-27
16	83	39	-51	-143	-291	-478*34	-462	-318*44	-412	-561
17	-349	-25	145	75	-61*28	-53	65*38	-35	-234	-356
18	-520	-393	-245	-101	102*26	68	-66*40	-56	-17	35
19	3	-51	-98	-5*20	-101*28	-100	15	160	201	230
20	184	55	-121	-317	-476	-531	-492	-394	-275	-172
21	-112	-88	-70	-37	8	27	3	-36	-51	-48
22	-51	-54	-39	5	40	47	40	33	27	0
23	-52	-123	-193	-244	-261	-196	-95	-73	-110	-133

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 2- 8-1973
(DAY NO 214)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 3- 8-1973
(DAY NO 215)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 4- 8-1973
(DAY NO 216)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-189	-204	-204	-187	-152	-110	-65	-26	5	30
1	47	63	78	94	107	114	117	123	130	137*56
2	136	117	95	70	49	30	19	7	-5	-16
3	-25	-37	-54	-73	-94	-108	-111	-98	-75	-56
4	-37	-12	14	41	60	73	88	107	124	137*56
5	128	101	54	4	-42	-81	-108	-122	-113	-91
6	-60	-36	-9	6	17	21	22	26	32	39
7	45	56	70	93	109	117	112	94	71	47
8	30	16	3	-10	-20	-19	-15	-13	-11	-12
9	-14	-18	-26	-41	-53*28	-51	-41	-30	-18	-16
10	-12	-4	9	27	49	69	93	111	123	131
11	143	163	183	197*22	195	197	203	211	228	246
12	266	286	300	305	307	305	301	291	281	269
13	259	257	257	265	275	287	299	309	307	297
14	277	249	221	193	168	142	112	84	58	38
15	21	9	5	4	12	24	30	25	15	9
16	16* 2	9	5	1	1	1	5	11	17	21*56
17	17	9	-5	-23	-43	-61	-71	-72	-65	-53
18	-35	-17	-5	3	17	32	54	77	99	106
19	103	93	84	79	75	72	73	70	81	92
20	88	75	56	36	19	10	3	1	-1	-2
21	-4	-3	7	31	54	76	87	88	90	93
22	90	92	85	68	33	-1	-34	-55	-64	-59
23	-40	-15	6	25	36	42	31	18	4	-13*58

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 5- 8-1973
(DAY NO 217)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-19	-31	-44	-46	-37	-20	3	32	62	81
1	100	108	95	72	48	27	13*40	14	13	11
2	5	-1	-3*14	0	4	9	17	22*44	27	28
3	29	31* 8	29	35*22	34	35	32	29	26	18*58
4	19	17	16	13	14	13*34	12	12	15	17*58
5	16* 4	14	13	12	12	11	9*40	7	6	4
6	1	-7	-23	-46	-69	-95	-114	-127	-136	-142
7	-141	-138	-137	-138	-146	-157	-168	-178*46	-180	-175
8	-170	-163	-154	-145	-134	-125	-116	-115	-118	-123
9	-130	-137	-143*16	-145	-142	-137	-139	-138	-141	-140
10	-141	-134	-121	-108	-93	-78	-62	-45	-26	-3
11	13	28	43	54	65	73	82	89	92	91
12	92	97	102*14	104*22	101*26	97	94	89	92	97
13	106	119	131	138	141	148	155	162	165	175*58
14	173	178	191	195	194	193	180	177	134	90*58
15	92	59	38	23	10	1*34	-5*38	-2	0	4
16	13	24	31	41	45	54	67	72	83*50	83
17	80	70	61	52	36	23	18	24	33	56
18	85	106	121	128	125	114	97	80	75	77
19	82	89	93	94	91	85	80	69	50	22
20	-8	-35	-51	-54	-43	-27	0	23	44	57
21	54	39	26	20	19	22	32	41	50	59
22	66	75	78	78	75	72	81	90	93	89
23	70	39	10	-12	-25	-29	-34	-39	-56	-79

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 6- 8-1973
(DAY NO 218)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-108	-134	-155	-174	-190	-199	-200	-191	-176	-157
1	-136	-117	-97	-81*22	-83	-96	-119	-144	-162	-173
2	-178	-181	-182	-177*22	-178	-172	-161	-150	-139	-130
3	-121	-114	-108	-99	-90	-79	-66	-61	-59*52	-57
4	-61	-62	-67	-86	-106	-119	-120	-112	-101	-86
5	-70* 2	-71	-88	-109*22	-107	-102	-110	-137	-167	-177*56
6	-170	-153	-136	-122	-125	-144	-180	-227	-272	-292*56
7	-280	-260	-253	-244	-232	-208	-177	-131	-82	-36
8	-8	0	2	-4	-8	-15	-34	-62	-89	-106
9	-121	-132	-141*14	-147	-152	-155	-157	-158*44	-153	-151
10	-146	-147	-156	-168	-185	-200	-219	-233	-244	-255*58
11	-254* 4	-256	-253	-250*20	-252	-249	-244	-233	-217	-194
12	-169	-142	-117	-90	-65	-41	-22	-5	9	20
13	33	44	49	49*22	52*28	50	51	62	69	76
14	75	66	53	36	23	26	32	47	62	72*56
15	64	41	19	6	-3	-8	-2	10	24	37
16	46	55*10	54	44	31	16	4	-6	-13	-15*56
17	-15	-16	-21	-32	-41	-48	-49	-44	-31	-12
18	10	39	67	87	108	119	120	109	89	60
19	29	20	9	9	19	25	38	52	71	86
20	101	108	109	99	82	59	36	15	1	-9
21	-14	-9	7	45	98	142	162	157	137	110
22	88	71	65	68	76	88*34	87	74	48	24
23	11	-1	-12	-21	-29	-34	-39	-41	-46	-53

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 7- 8-1973
(DAY NO 219)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-65	-77*10	-79	-77	-70	-63	-56	-51	-42	-29
1	-14	-3	5	14	21	28	29	36	51	68
2	87	100	110*14	108	101	90	73	38	-4	-54
3	-93	-119	-128	-134	-137	-139	-134	-118	-97	-75
4	-48	-24	-3	15	37	64	89	99	98*52	94
5	90	86	85	83	76	58	31	1	-27	-57
6	-78	-91	-92	-81	-62	-36	-1	34	73	104
7	121	128* 8	122	107	90	66	43	18	-5*52	-4
8	2	6	7	-1	-18	-41	-61	-72	-87	-106
9	-130	-151	-160	-163	-165	-163*32	-163	-160	-157	-158
10	-153	-140	-125	-104	-91	-85	-90	-99	-116	-133
11	-152	-165	-170	-167	-158	-146*34	-148	-155	-167	-185
12	-201	-214*10	-213	-211	-197	-171	-138	-109	-87	-71
13	-59	-49*10	-50*14	-53	-61	-73	-87	-104	-119*52	-122
14	-118	-102	-88	-77	-73	-63	-47	-13	36	104
15	180	257	333	409	445	405	301	203	145	126
16	132* 2	126	111	97*22	98	97	100	101	90	76
17	47	-4	-34	-2	51	90	103	94	78	76
18	101							68	78	134
19	220	315* 8	294	218	124	44	-9	-15	8	36
20	88	121	125	129	165	265	399	555	631	595
21	509	411	345	325	313	295	265	205	145	123
22	134	148	194	287	373	411	416	410	414	432
23	436* 4	437	453	452	458	418	348	320	228	-126*58

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 8- 8-1973
(DAY NO 220)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-197* 4	-180	-54	123	253	301	277	213	137	57
1	-26	-103	-184*16	-181	-131	-29	40	58	50	10
2	-25	-51	-104	-174	-223*26	-210	-184	-172	-148	-92
3	-72	-83* 8	-74	-30	12*26	1	-31*38	-29	-17	-11
4	-1	33	95	169	233	270	298	318	350	396
5	461	529	583	630	666	678	658	619	567	521
6	467	421	407	392	368	349*32	358	376	400	420
7	432	446	458	451	427	399	372	342	312	278
8	244	205	163	121	88	59	35	-2	-44	-83
9	-117	-153	-195	-225*20	-218	-192	-168*38	-169	-185	-201
10	-211	-206	-186	-152	-90	-11	56	112	150	179
11	195	213	229	244	258	268	286	313	357	405
12	435	461	484	512	530	544	553	553	550	543
13	527	498	458	414	375	331	304	290	297	305*56
14	296	275	243	197	133	54	-31	-113	-183*52	-182
15	-150	-96	-45	-7	16	35	47	47	56	96
16	187	319	437	507*20	500	464	406	340	284	240
17	203	177	161	169	203	261	316	348	354	352
18	358	373	405	447	484	494	470	418	351	283
19	227	178	138	109	99	105	128	158	183	203
20	210	204	178	146	109	87	83	98	120	140
21	149	145	131	118	110	105	105	104	102	98
22	99	111	130	153	177	193	198	202	195*50	187
23	164	134	108	97	101	112	128	147	167	186

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 9- 8-1973
(DAY NO 221)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	202	207	203	196	183	173*34	175	171	174	176
1	176	175	171	173*20	172	176	174	159	131	97
2	70	52	40	25	11	1	-9	-17	-25	-30*56
3	-26	-10	15	43	62	72	80*40	77	71	63
4	53	42	36	38	43	53	72	96	123	149
5	170	194	215	231	236	226	199	173	150	134
6	119	101	78	46	6	-18	-24	-8	16*52	13
7	35	92	157	207	237	292	428			
8										
9										
10										
11										
12	-7	-145* 8	16	351	476*26	325	181	29	10*52	11*56
13	-186* 4	-176	-171	185	132	178	16*40	98*44	71	250
14	35	36*10	34	-130	-37	28	26	27	32	32*56
15	-28	-21	-20	28	21	-2	-41	-82*46	-78	-51
16	125	86	36	-14	8	49	94	135	160*50	154
17	8	-4	-11	-18	-37	-26	-8	10	21	19
18	17	30	39	-19	-30	-43	-52	-47	-26	-1
19	-12	9	28	47	38	16	-8	-21	-26	-25
20	125	129	128	41	48	51	53	64	89	112
21	94	71	52	127	128	135*32	136	131	124	111
22	31	30	35	39	34	33	32	33	35	34
23	104	121	138	40	47	53	60	67	76	89
				159	176	185*32	184	191	216	293*58

RRS DISCOVERY CRUISE NUMBER 54 LEG 2

MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 10- 8-1973
(DAY NO 222)

HOURS	00	06	12	18	24	30	36	42	48	54
0	313	371	415*16	413	378	317	246	193	170	195*48
1	193	112	-10*16	-4	29	58	86	207	415	554
2	502	409	354	250	101	32	26	43	28	-15
3	-68	-100	-107	-95	-74	-48	-21	0	19	35
4	48	56	61	65	76	94	107	111	108	106
5	101	99	109*16	108	124	154	194	236	266	274
6	266	254	239	221	199	187*32	192	208	219*50	218
7	223	239	261	273*20	270	268	260	249	236	222
8	207	192	181	171	168	168	157	157	156	152
9	167	222*10	221	179	110	51	12	-10	-23	-19
10	3	40	79	117*22	115	100	83	64	45	68
11	161	302	467	613*22	608	501*34	512*38	473	362	193
12	-16*2	40	94*16	114	763*28	1218*34	905*40	901	1174	934
13	413	310	471	329*22	782*28	766	434	271	147*52	143
14	-101	-304*8	-219	-88	174	289	12	-110	-79	0
15	108*2	9*10	17*14	14	55	74	65	88	141	208
16	264	334*10	332	307	284	317	372	419	449	404*58
17	407	417	390	377	347	266	173	83	1	-52
18	-76	-103	-129	-154	-178	-197	-189	-161	-128	-110
19	-119	-146	-172	-193	-198	-193	-186	-185	-172	-152
20	-140	-127	-103	-73	-43	-23	-13	-18	-26	-28
21	-28	-40	-60	-90	-124	-165	-199	-229	-255	-279
22	-313	-361	-413	-447	-459	-449	-425	-376	-320	-271
23	-229	-197	-166	-132	-106	-85	-69	-59	-54	-56

RRS DISCOVERY CRUISE NUMBER 54 LEG 2

MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 11- 8-1973
(DAY NO 223)

HOURS	00	06	12	18	24	30	36	42	48	54
0	-63	-73*10	-71	-74	-70	-65	-71	-75	-78*52	-81
1	-78*2	-71	-69	-84	-110	-128	-138	-138*44	-138	-144
2	-160	-178	-182	-170	-148	-120	-84	-47	-9	20
3	46	56	74	67	55	53*32	53	62*46	61	55
4	43	21	-6	-32	-29	-29	-13	17	17	27
5	43	73	123	181	238*28	236	214	182	156	138
6	125*4	127	135	153	181	213	248*40	247	231	187
7	129	59	17	-18	-38	-48	-44	-33	-19	-13
8	-5	3	15	24	30	24	9	-2	-5	-3
9	6	23	41	65	93	130	172	220	263	292*58
10	290	276	251	221	199	196	192	162	102	37
11	-16	-44	-49*14	-61	-105	-159	-191	-197	-186	-174
12	-170	-170	-156	-123	-80	-35*34	-37	-66	-108	-140
13	-155	-159	-146	-124	-95	-57	-15	13	23	14
14	-1	-13	-20	-26	-27*26	-31	-37	-44	-52	-58
15	-64	-65	-61	-51	-36	-19	3	26	51	77
16	104	131	154	166	181	200	232	267	308	353
17	397	437	463	478	472	449	405	354	313	300
18	321	342	313	210	68	-46	-119	-172	-209	-224
19	-224	-216	-213	-217	-227	-238	-248	-249	-248	-237
20	-222	-204	-189	-173	-156	-141	-125	-112	-97	-82
21	-67	-54	-48	-43	-43	-46	-50	-54	-57	-57
22	-52	-46	-40	-31	-27	-25	-22	-26	-30	-35
23	-41	-46	-50	-51	-51	-52	-56	-57	-57	-57

RRS DISCOVERY CRUISE NUMBER 54 LEG 2

MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 12- 8-1973
(DAY NO 224)

HOURS	00	06	12	18	24	30	36	42	48	54
0		-60	-64	-70	-80	-92	-103	-119	-132	-141
1	-154	-164	-168	-166	-161	-155	-151	-149	-147	-149
2	-149	-151	-147	-143	-134	-128	-124	-122	-122	-122
3	-124	-128	-134	-138	-143	-145	-145	-140	-136	-132
4	-128	-121	-117	-111	-105	-102	-102	-102	-104	-102
5	-101	-99	-97	-95	-93	-91*32	-91	-89	-86*52	-88
6	-92	-96	-104	-109	-117	-125	-131	-138	-142	-146
7	-145	-143	-138*14	-140	-136	-129	-113	-97	-88	-94
8	-110	-124	-129	-129	-125	-118	-110	-100	-88	-77
9	-66	-56	-46	-38	-28	-13	-1	14	28	40*58
10	38	34	26*14	29	31	35	41	49	56	56
11	52	40	31	25	25	30	40	52	63*50	53
12	25	-7	-28	-34	-33	-65	-89	-97	-119	-143
13	-152	-154	-150	-143	-133	-133	-144	-160	-162	-158
14	-157	-157	-155	-150	-146	-138	-128	-117	-111	-109
15	-105	-103	-106	-120	-134	-138	-133	-129	-125	-118
16	-114	-105*10	-107	-107	-104	-101*34	-99*40	-101	-97	-94
17	-92	-88	-85	-79	-76	-72	-70	-71	-71	-74
18	-74	-73	-71	-68	-68	-63	-54*40	-56	-57	-63
19	-66	-70	-71	-75	-72	-71	-71	-66	-64	-61
20	-57	-52	-46	-41	-33	-24	-14	-3	14	29
21	51	72	90	119	141	150	150	136	113	73
22	67	60	56	49	39	27	16	8	2	1
23	-3	-6	-10	-15	-22	-34	-49	-63	-76	-83

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
MAGNETIC ANOMALY IN GAMMAS AFTER REMOVAL OF IGRF

DATE 13- 8-1973
(DAY NO 225)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	-87	-84	-82	-75	-69	-60	-51	-43	-34	-24
1	-11	0	15	33	56	76	88	91	85	76
2	56	21	-20	-41	-27	2	25	49	70	80
3	71	53	34	14	-16	-52	-71	-81	-106	-162
4	-235	-307	-356	-368	-347	-319	-290	-262	-236	-223
5	-232	-263	-294	-305	-296	-284*32	-285	-298	-309*50	-304
6	-281	-248	-213	-187	-172	-163	-144	-109	-54	6
7	61	105	124	121	102*26	113	148	187*46	183	134
8	57	4	-29	-74	-119	-144	-146	-147	-154	-157
9	-156	-154	-149	-158	-175	-191	-196	-191	-180	-164
10	-149	-132	-114	-94	-80	-69	-61	-56	-52	-45
11	-45	-42	-38	-35	-44	-51	-46	-23	21*52	19
12	0	-43	-123*16	-111*20	-122	-140	-155	-172	-183	-188
13	-187	-182	-173*14	-174	-189	-217	-254	-282	-294*50	-292
14	-279	-263	-245	-227	-210	-192	-177	-169	-157	-148
15	-142	-141	-137	-138	-141	-147	-152	-155	-155	-160
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 1- 7-1973
(DAY NO 182)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18	75		75	74	74	74	74	75		
19							82	82	83	83
20	83							87	87	88
21	88	88	89	90	92	92	93	94	96	97
22	99	102	104	108	115	129	156	193	219	223
23	270	344	483	517	474	528	439	411	435	468

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 2- 7-1973
(DAY NO 183)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	589	638	640	712	737	730	746	765	785	818
1	812	812	815	830	795	795	797	799	803	811
2	818	828	837	848	857	863	874	887	891	897
3	906	911	916	924	932	937	946	955	963	967
4	971	975	976	979	977	977	978	981	985	988
5	990	990	991	993	996	1000	1005	1008	1011	1014
6	1018	1020	1018	1016	1004	1004	991	966	953	924
7	896	877	863	853	844	838	828	818	801	790
8	779	776	745	723	697	673	653	628	602	586
9	556	532	511	490	468	447	428	411	396	381
10	363	350	337	324	314	305	299	292	286	283
11	280	278	276	275	274	274	274	274	274	275
12	275	275	275	275	275	275	275	275	275	275
13	275	275	274	271	268	268	268	268	269	269
14	272	273	271	268	264	260	254	252		
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 3- 7-1973
(DAY NO 184)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	103	104	104	105	107	107	108	110	111	113
1	115	116	121	123	130	134	139	144	150	153
2	151	157	159	159	157	159	159	162	165	163
3	167	169	171	170	173	174	175	177	178	180
4	180	181	182	182	183	184	188	187	188	188
5	188	190	188	188	188	190	190	191	191	194
6	195	197	198	200	203	204	207	208	211	212
7	216	219	221	224	228	229	230	233	235	237
8	239	241	244	248	251	254	257	261	264	269
9	272	274	276	274	270	266	266	270	273	274
10	274	271	268	262	258	260	266	270	273	272
11	270	270	270	270	270	269	269	269	269	269
12	269	268	268	268	268	268	268	268	269	268
13	269	272	274	275	275	276	276	276	276	276
14	276	274	273	270		270	269	270		
15										
16	269	270	271	272	271	270	269	270	271	272
17	275	274	274	274	274	272	270	269		
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 4- 7-1973
(DAY NO 185)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4	269	268	268	270	272	275	278	281	285	291
5	295	300	305	310	314	319	326	338	347	357
6	369	379	344	415	428	442	449	459	472	488
7	506	526	545	571	600	632	681	734	782	810
8	846	870	929	996	1161	1409	1568	1583	1703	1756
9	1757	1760	1886	1940	1978	2005	2026	2051	2084	2105
10	2127	2140	2156	2174	2185	2196	2207	2225	2242	2256
11	2262	2272	2279	2287	2295	2302	2308	2316	2327	2337
12	2352	2362	2373	2388	2400	2396	2415	2423	2423	2424
13	2428	2434	2440	2448	2457	2461	2472	2482	2495	2503
14	2514	2516	2525	2533	2541	2554	2558	2563	2573	2574
15	2581	2586	2592	2594	2596	2600	2602	2605	2607	2612
16	2617	2626	2629	2631	2634	2635	2636	2636	2636	2637
17	2638	2639	2641	2643	2643	2641	2640	2643	2644	2645
18	2645	2645	2645	2646	2646	2646	2646	2646	2645	2645
19	2645	2645	2645	2645	2646	2645	2482	2266	2430	2645
20	2646	2646	2647	2643	2609	2575	2589	2605	2643	2643
21	2645	2645	2645	2645	2645	2645	2645	2644	2644	2643
22	2643	2643	2643	2643	2632	2625	2605	2602	2607	2606
23	2597	2561	2494	2465	2438	2375	2358	2340	2329	2327

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 5- 7-1973
(DAY NO 186)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2323	2330	2316	2308	2303	2301	2289	2282	2262	2262
1	2267	2249	2207	2213	2216	2188	2133	2099	2067	2124
2	2130	2142	2103	2171	2272	2337	2345	2364	2418	2469
3	2482	2491	2493	2491	2493	2498	2493	2487	2465	2468
4	2463	2468	2462	2471	2465	2463	2461	2420	2356	2375
5	2371	2346	2322	2341	2349	2338	2318	2331	2402	2419
6	2425	2411	2413	2388	2375	2256	2267	2260	2276	2258
7	2246	2259	2216	2166	2157	2147	2129	2128	2270	2526
8	2527	2527	2524	2529	2528	2524	2527	2527	2529	2528
9	2520	2516	2515	2515	2516	2516	2519	2520	2521	2521
10	2520	2520	2520	2521	2520	2522	2522	2522	2523	2527
11	2528	2528	2529	2529	2530	2530	2532	2529	2529	2525
12	2532	2532	2537	2535	2535	2535	2533	2532	2531	2531
13	2442	2372	2403	2429	2461	2486	2521	2565	2583	2583
14	2582	2581	2579	2577						2465
15	2409	2356	2282	2246	2286	2314	2335	2346	2414	2461
16	2467	2480	2473	2469	2463	2457	2471	2470	2471	2446
17	2417	2413	2423	2427	2423	2415	2408	2392	2383	2387
18	2386	2388	2392	2400	2406	2417	2442	2459	2471	2489
19	2507	2519	2541	2542	2539	2535	2530	2522	2513	2489
20	2445	2398	2339	2347	2347	2356	2358	2359	2356	2363
21	2289	2295	2258	2230	2295	2427	2530	2600	2646	2646
22	2647	2648	2649	2650	2650	2650	2650	2649	2649	2649
23	2648	2648	2648	2648	2644	2647	2648	2648	2648	2648

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 6- 7-1973
(DAY NO 187)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2645	2644	2450	2387	2351	2243	2180	2235	2259	2272
1	2255	2285	2285	2248	2184	2159	2130	2141	2230	2247
2	2229	2243	2321	2405	2450	2454	2461	2450		
3						2455	2394	2337	2328	2322
4	2317	2282	2267	2273	2276	2264	2197	2172	2174	2169
5	2151	2140	2088	2078	2072	2084	2107	2132	2130	2121
6	2128	2115	2109	2092	2121	2136	2149	2144	2142	2146
7	2142	2147	2163	2236	2270	2278	2280	2289	2308	2312
8	2306	2308	2303	2278	2249	2184	2165	2162	2237	2230
9	2213	2211	2226	2251	2255	2255	2254	2258	2257	2258
10	2255	2253	2241	2218	2205	2132	2034	2075	2163	2236
11	2224	2215	2220	2215	2209	2199	2196	2190	2188	2181
12	2173	2172	2166	2168	2166	2152	2139	2133	2127	2123
13	2120	2117	2114	2110	2104	2098	2091	2074	2070	2058
14	2020	1964	1947	1940	1937	1907	1889	1897	1889	1887
15	1930	1940	1932	1904	1888	1851	1820	1776	1738	1699
16	1665	1521	1586	1535	1497	1455	1392	1328	1260	1196
17	1117	1059	976	935	1085	1124	1185	1309	1360	1392
18	1507	1585	1667	1738	1799	1927	2107	2440	2482	2482
19	2482	2482	2482	2482	2482	2483	2483	2483	2482	2482
20	2482	2481	2480	2480	2480	2480	2442	2446	2444	2445
21	2425	2073	1909	1805	1518	1387	1287	1025	866	941
22	947	772	630	588	617	726	851	965	1030	1117
23	1112	1250	1346	1426	1498	1555	1590	1607	1613	

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 7- 7-1973
(DAY NO 188)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1648	1652	1654	1656	1667	1675	1681	1688	1689	1712
1	1712	1710	1716	1718	1712	1722	1731	1735	1747	1753
2	1757	1759	1766	1770	1772	1774	1780	1772	1776	1789
3	1798	1794	1795	1830	1840	1857	1867	1867	1869	1874
4	1878	1880	1887	1885	1882	1876	1875	1875	1876	1880
5	1891	1894	1901	1901	1905	1912	1914	1922	1925	1929
6	1934	1936	1940	1946	1949	1951	1955	1956	1956	1956
7	1959	1960	1960	1961	1960	1962	1962	1963	1966	1968
8	1971	1972	1972	1972	1972	1972	1973	1972	1973	1976
9	1976	1975	1974	1975	1975	1975	1975	1974	1974	1971
10	1972	1976	1976	1977	1976	1974	1974	1974	1974	1972
11	1971	1970	1971	1972	1973	1974	1973	1972	1970	1971
12	1971	1972	1972	1972	1972	1971	1972	1972	1971	1971
13	1970					1970				1970
14	1969					1962				
15	1957					1961		1966		1976
16	1972	1971	1972	1967	1947	1920	1894	1862	1822	1859
17	1870	1928	1926	1946	1953	1932	1932	1918	1915	1940
18	1956	1968	1972	1984	1988	1984	1972	1930	1930	1928
19	1891	1905	1937	2074	2078	2080	2084	2085	2087	2097
20	2099	2103	2103		2104		2106		2106	2103
21	2091	2090	2086	2064	2025	1942	1870	1822	1801	1849
22	1858	1856	1824	1851	1808	1439	1888	1856	1866	1845
23	1916	1932	1937	1932	1968	1971	1955	1981	2028	2049

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 8- 7-1973
(DAY NO 189)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2073	2081	2088	2088	2101	2109	2057	2124	2159	2162
1	2163	2158	2151	2142	2117	2038	2027	2099	2097	2098
2	2091	2076	2068	2048	2039	2024	1996	1966	1936	2006
3	2023	2019	2023	2020	2026	2018	2008	2003	1974	1955
4	1953	1957	1962	1953	1957	1959	1964	1961	1959	1959
5	1959	1953	1952	1945	1947	1956	1961	1966	1962	1951
6	1943	1934	1932	1919	1899	1886	1885	1871	1874	1876
7	1875	1856	1829	1793	1762	1787	1788	1800	1794	1838
8	1856	1837	1865	1876	1874	1850	1783	1801	1831	1816
9	1810	1781	1787	1809	1842	1866	1890	1901	1917	1950
10	1909	1922	2024	2023	2016	2018	2012	2003	2003	2002
11	1993	1995	1989	1986	1981	1951	1966	1947	1856	1853
12	1763	1722	1870	1920	1922	1921	1900	1907	1907	1907
13	1905	1901	1897	1893	1893	1890	1897	1900	1895	1875
14	1859	1850	1832	1820	1816	1810	1811	1793	1786	1760
15	1754	1729	1661	1694	1702	1700	1702	1693	1715	1739
16	1783	1752	1785	1767	1760	1771	1775	1781	1715	1527
17	1494	1500	1484	1517	1504	1481	1479	1504	1546	1647
18	1661	1663	1657	1642	1614	1586	1589	1608	1617	1621
19	1616	1501	1595	1584	1585	1571	1578	1583	1592	1597
20	1600	1594	1589	1583	1578	1579	1581	1581	1581	1568
21	1562	1543	1553	1531	1496	1479	1453	1359	1290	1116
22	1078	1077	1016	964	811	606	558	541	524	521
23	519	510	494	502	527	539	569	719	915	969

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 9- 7-1973
(DAY NO 190)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1059	1077	1029	1107	1124	1182	1196	1197	1202	1206
1	1198	1192	1189	1183	1179	1173	1168	1160	1159	1155
2	1150	1141	1132	1141	1114	1104	1054	964	730	634
3	707	874	944	1007	1001	1026	1033	1036	1030	1027
4	1024	1020	1018	1012	1007	1003	999	995	996	991
5	994	997	999	1007	1007	1023	1035	1029	1034	1025
6	1040	1024	1034	1032	1026	1037	1032	1036	1041	1043
7	1042	1044	1047	1061	1072	1085	1086	1097	1087	1079
8	1032	989	1024	1038	1031	1008	985	993	994	993
9	988	972	962	961	948	939	937	929	922	919
10	914	898	905	910	918	916	911	911	909	907
11	907	907	909	910	908	910	910	912	914	909
12	907	909	911	904	901	896	896	903	913	913
13	930	932	927	938	958	967	977	992	1001	981
14	987	1000	1001	1000	992	995	965	946	918	900
15	905	865	862	848	829	817	806	805	798	817
16	829	839	850	860	891	881	876	859	840	829
17	821	806	811	725	539	607	846	904	930	985
18	1057	936	1026	1009	1026	893	883	907	971	1059
19	995	964	958	1110	1026	976	924	1005	899	1116
20	1118	1143	1215	1267	1273	1206	1189	1175	1213	1227
21	1197	1191	1179	1169	1169	1122	1104	1051	1037	1021
22	981	942	958	986	990	996	981	962	989	946
23	1012	997	1044	1057	1037	995	1012	956	958	938

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 10- 7-1973
(DAY NO 191)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1022	911	968	995	1023	1022	993	946	929	961
1	986	987	981	976	1106	1104	1126	1125	1115	1069
2	1042	1150	1110	1113	1116	1117	1100	1167	1228	1215
3	1197	1116	1028	947	917	896	862	911	950	927
4	964	939	974	999	993	934	995	1006	1031	1053
5	1083	1098	1085	1069	955	857	908	862	789	970
6	1054	998	907	821	1031	811	801	815	766	801
7	801	801	774	862	974	952	1026	1081	1089	1027
8	955	883	844	821	819	807	799	760	733	675
9	707	754	829	870	948	961	1005	1016	924	808
10	882	891	887	938	897	756	815	797	897	827
11	905	964	1026	1067	1072	987	924	954	1046	1124
12	1203	1211	1208	1228	1157	1282	1303	1389	1439	1442
13	1440	1454	1484	1377	1286	1308	1334	1287	1243	1157
14	1150	1057	1188	1036	959	897	890	864	836	821
15	768	713	852	861	889	860	766	842	897	799
16	620	909	842	767	766	693	453	480	529	744
17	883	963	989	998	993	870	854	946	975	903
18	944	1032	1011	990	897	739	543	520	535	562
19	603	463	718	804	807	745	799	821	805	781
20	821	1009	1169	1319	1472	1524	1531	1424	1366	1366
21	1307	1225	1280	1265	1245	1234	1151	1122	1108	1099
22	1089	1069	1075	1053	1040	1072	1068	1086	1063	1078
23	1065	1053	1051	993	899	904	864	891	889	876

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 11- 7-1973
(DAY NO 192)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	879	815	719	719	672	596	504	474	465	537
1	521	572	664	821	842	852	944	975	939	1005
2	1102	1087	1092	1110	1104	1081	1040	1001	887	794
3	790	705	723	810	797	793	862	921	935	688
4	719	870	1055	1233	1259	1305	1312	1303	1245	1291
5	1194	1096	1098	1120	1009	971	1005	1048	1007	1072
6	1024	1046	911	961	1014	964	934	801	825	852
7	956	990	941	906	876	938	933	911	813	739
8	768	670	572	627	474	627	650	719	831	975
9	1035	1087	1257	1299	1300	1269	1153	1071	1100	1159
10	1107	1057	987	958	934	899	806	730	821	867
11	947	976	994	1128	1112	1182	1182	1188	1167	1125
12	1123	1190	1241	1247	1258	1272	1337	1342	1346	1192
13	1216	1272	1251	1250	1230	1211	1192	1219	1257	1236
14	1250	1258	1270	1277	1286	1291	1271	1108	1049	1113
15	1123	1153	1200	1179	1244	1060	1012	1119	1105	1159
16	1212	1167	1167	1258	1332	1291	1201	1151	1151	1267
17	1276	1288	1241	1234	1266	1279	1288	1279	1255	1225
18	1184	1186	1189	1174	1189	1179	1149	1066	1071	1167
19	1129	1079	1093	1139	1087	1147	1178	1225	1203	1188
20	1174	1160	1135	1128	1132	1123	1141	1032	1059	1089
21	1112	1122	1135	1123	1144	1104	1080	1034	1029	1018
22	1005	1007	1011	997	977	1032	991	992	979	979
23	1039	1026	1108	1142	1134	1114	1126	1078	993	934

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 12- 7-1973
(DAY NO 193)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	943	967	990	1009	1015	1026	1046	1060	1060	1050
1	1105	1087	1111	1079	1050	1069	1087	1096	1090	1086
2	1146	1134	1122	1120	1122	1116	1099	1098	1067	1059
3	1051	1059	1067	1059	967	948	969	1009	1008	1003
4	1004	996	983	964	948	951	995	975	684	607
5	588	688	719	754	638	564	538	481	423	358
6	341	218	183	178	190	204	231	234	230	232
7	249	281	271	351	335	337	441	484	492	512
8	543	568	609	640	672	708	767	801	791	820
9	840	754	754	707	707	706	717	666	629	684
10	676	573	640	624	614	613	611	590	543	404
11	351	340	326	320	313	307	304	300	298	296
12	288	284	282	272	270	267	265	267	264	263
13	269	266	275	284	286	293	296	319	384	402
14	418	402	405	401	412	441	414	303	360	392
15	453	474	590	692	688	592	615	686	704	756
16	850	899	960	997	1002	981	862	879	960	943
17	943	936	929	932	939	946	897	949	969	967
18	932	870	954	924	954	950	977	952	933	888
19	875	858	803	775	837	874	866	876	870	862
20	849	706	750	827	890	953	972	1000	1018	1055
21	1118	1193	1283	1282	1300	1283	1287	1274	1274	1272
22	1241	1230	1206	1205	1183	1174	1165	1154	1191	1190
23	1128	1038	1089	1154	1175	1186	1133	1138	1190	1209

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 13- 7-1973
(DAY NO 194)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1231	1221						1270		1248
1	1170	1165			1104	1073	1041	1009	1018	1087
2	1132	1141	1145	1128	1128	1088	1054	1044	975	1009
3	1030	1023	1057	1062	1011	952	836	764	652	686
4	715	717	760	821	883	948	944	881	901	947
5	924	1034	1083	1093	1070	1075	1088	1091	1096	1063
6	964		763	660	763	699	659	613	781	862
7	948	999	1020	987	1024	1046	1151	1133	1134	1161
8	1155	1164	1180	1183	1174	1199	1216	1317	1432	1436
9	1433	1391	1271	1251	1294	1490	1490	1282	995	812
10	760	556	692	790	869	897	746	670	724	745
11	738	737	805	711	617	508	598	671	813	908
12	954	979	977	1024	997	1153	1235	1231	1340	1488
13	1543	1566	1533	1548	1533	1485	1375	1184	1083	1020
14	962	892	912	715	772	827	793	815	848	964
15	1032	1117	1221	1298	1315	1340	1359	1399	1360	1313
16	1284	1266	1228	1237	1188	1178	1172	1231	1224	1223
17	1141	1108	1046	936	874	866	809	731	714	771
18	737	807	848	858	897	864	807	876	801	774
19	757	765	678	694	872	995	1071	1079	1038	975
20	997	979	1021	1062	1231	1329	1399	1403	1441	1523
21	1599	1624	1607	1617	1573	1483	1441	1221	1057	1063
22	837	702	770	778	840	938	1059	1137	1087	962
23	952	893	954	941	1016	1077	1090	1057	1149	1091

D20

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMSDATE 14- 7-1973
(DAY NO 195)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1059	999	1096	1046	958	821	860	938	1171	1241
1	1120	1059	1029	1134	1198	1253	1247	1334	1440	1539
2	1572	1653	1655	1635	1628	1578	1597	1588	1598	1583
3	1597	1529	1496	1523	1463	1447	1436	1364	1420	1473
4	1360	1377	1416	1537	1459	1416	1519	1609	1723	1578
5	1498	1395	1346	1229	1128	1200	1237		1005	964
6	1116	1124	1190	1159	1031	1013	1169	1221	1272	1336
7	1422	1395	1231	1057	1055	1044	1065	1007	895	977
8	1046	1018	990	1032	965	887	1065	750	739	739
9	752	824	1042	1106	1237	1371	1473	1525	1595	1605
10	1594	1575	1537	1517	1331	1273	1173	1100	1096	1080
11	1075	1038	870	840	836	910	953	861	813	729
12	602	486	554	622	683	719	709	666	715	831
13	924	1069	1030	1011	964	856	837	915	756	816
14	842	1079	1160	1233	1234	1239	1242	1237	1257	1061
15	1036	1030	1101	1005	932	1036	1048	1055	1096	1046
16	1018	893	909	985	1018	1008	1106	1071	1171	1114
17	1165	1178	1118	1009	1115	1035	985	862	744	741
18	911	985	862	883	956	921	956	962	842	924
19	946	996	950	887	921	924	958	942	995	991
20	907	999	935	844	879	833	786	746	684	621
21	590	527	508	580	831	881	973	1034	971	1028
22	1276	1377	1253	1310	1243	1215	1102	1018	1035	862
23	874	791	774		978		1194	1161	1069	

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMSDATE 15- 7-1973
(DAY NO 196)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0							1529	1588	1640	1560
1							1227	1214	1181	1159
2							1034	919	913	883
3							629	643	673	780
4	1531	1521	1482	1387	1303	1231	1251	1249	1268	1259
5	1077	1057	1055	1032	971	1011	842	829	733	705
6	899	807	774	678	549	573	817	1371	1307	1384
7	842	903	964	934	1046	1231	1272	1311	1239	1187
8	1235	1149	1084	939	912	842	1038	1198	1387	1436
9	754	862	872	960	1128	1190	1149	1287	1241	1169
10	1413	1403	1423	1388	1321	1298	543	641	620	596
11	1194	1161	1077	1012	977	998	521	653	690	733
12	1406	1352	1307	1277	1265	1237	1075	1093	1114	1137
13	1099	1009	889	856	746	613	1400	1440	1442	1457
14	699	719	631	535	520	499	1542	1539	1519	1459
15	847	870	867	894	940	1055	1003	944	874	909
16	1087	1132	1161	1212	1257	1313	1149	1026	1007	1058
17	1524	1525	1494	1514	1521	1535	1089	1040	891	852
18	1477	1416	1389	1457	1301	1139	643	813	913	842
19	872	1046	1039	1007	1012	1026	762	778	805	781
20	1123	1091	1126	1123	1096	1083	1223	1358	1334	
21	658	536	548	588	637	625				
22	756	893	861	942	833	719				
23	868	879	979	1085	1104	1143				

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMSDATE 16- 7-1973
(DAY NO 197)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1342	1358	1414	1395	1457	1502	1517	1592	1618	1636
1	1627	1568	1626	1603	1554	1521	1515	1453	1364	1108
2	836	750	709	652	663	654	724	852	985	930
3	938	883	908	905	1000	1071	1190	1234	1186	1190
4	1233	1354	1375	1453	1299	1397	1465	1327	1307	1459
5	1560	1630	1661	1508	1373	1231	1122	1073	1147	1262
6	1395	1642	1570			1626	1601	1519	1455	1422
7	1303	1292	1321	1492	1510	1424	1436	1440	1410	1426
8	1299	1367	1442	1311	1246	1169	1087	1215	1103	1005
9	1124	1227	1203	1175	1231	1169	1210	1225	1169	1277
10	1347	1350	1313	1253	1100	891	772	713	719	609
11	622	568	773	938	916	795	659	727	713	668
12	850	929	1057	1292	1360	1355	1313	1292	1149	1050
13	1040	1055	1053	1120	1202	1152	1151	1100	1126	999
14	944	960	940	893	983	985	929	876	908	903
15	964	907	780	785	813	838	754	794	830	692
16	627	600	629	730	719	870	1020	1046	1186	1263
17	1301	1375	1361	1342	1323	1319	1309	1290	1299	1329
18	1306	1231	1026	958	939	962	991	1022	1037	1026
19	949	887	836	711	754	789	754	735	729	525
20	718	748	672	643	557	521	502	482	461	486
21	561	544	614	549	465	461	298	335	588	782
22	911	917	934	956	967	901	950	984	1007	946
23	1046	1073	973	1061	1077	1105	1139	1148	1148	1196

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 17- 7-1973
(DAY NO 198)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1187	1197	1240	1243	1247	1251	1257	1202	1153	1057
1	1032	1026	1085	1053	1188	1167	1159	1077	1038	1022
2	1022	1018	913	815	842	872	887	901	957	997
3	1071	1156	1159	1159	1157	1170	1175	1175	1181	1159
4	1135	1142	1138	1147	1087	1050	1014	1036	1165	1183
5	1198	1128	1012	964	823	874	690	653	609	641
6	686	641	791	723	762	829	780	799	793	944
7	988	1032	1043	1040	999	924	699	557	474	386
8		402	445	484	580	678	588	786	755	696
9	666	584	525	409	613	678	868	857	862	893
10	934	817	774	747	744	674	512	465	578	582
11	600	625	668	521	488	596	690	764	978	1102
12	1108	1114	1112	1112	1113	1048	1077	1091	1081	1026
13	973	960	941	924	975	758	754	668	658	623
14	631	737	883	934	919	964	944	885	915	933
15	944	932	987	1024	1016	903	1133	1173	1179	1174
16	1116	1059	936	985	823	711	782	745	820	864
17	750	913	793	821	913	1130	1325	1457	1599	1607
18	1457	1321	1378	1216	1180	1128	1055	958	991	1032
19	1080	1116	1153	1178	1046	946	964	947	992	962
20	1013	997	964	999	1024	1016	1007	967	958	944
21	981	1009	1018	1030	1046	1032	987	879	903	921
22	940	1005	1040	986	1046	1134	1159	1206	1268	1366
23	1356	1412	1410	1354	1293	1253	1144	1180	1150	1156

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 18- 7-1973
(DAY NO 199)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	911	993	1003	958	1067	1325	1321	1350	1418	1506
1	1671	1498	1426	1381	1290	1195	1118	1087	1048	1061
2	1051	1046	1020	1036	1020	1018	1005	1013	1067	1093
3	1044	1125	1225	1264	1327	1411	1488	1554	1581	1601
4	1640	1647	1663	1682	1684	1681	1593	1538	1442	1489
5	1641	1554	1342	1354	1373	1260	1200	1251	1249	1200
6	1219	1210	1206	1131	1075	1048	1087	1128	1147	1140
7	1093	1092	1095	1053	1038	1018	1036	1111	1114	1135
8	1133	1204	1247	1253	1271	1282	1399	1403	1432	1418
9	1523	1500	1475	1475	1495	1472	1389	1354	1430	1450
10	1360	1354	1477	1591	1484	1434	1340	1190	1155	1147
11	1119	1073	979	989	1009	1075	1187	1219	1288	1350
12	1385	1262	1104	1065	1118	1014	999	1055	1067	1087
13	1034	1048	1132	1185	1397	1426	1416	1321	1227	1153
14	1130	1046	1073	1104	1151	1258	1303	1323	1362	1390
15	1389	1467	1491	1502	1570	1636	1649	1719	1726	1713
16	1589	1475	1346	1292	1334	1221	1149	1149	1190	1202
17	1102	1030	905	932	938	903	911	1018	1027	1063
18	1079	1096	1059	1075	1149	1164	1174	1169	1122	1118
19	1065	1153	1147	1128	1165	1212	1225	1190	1124	1531
20	1614	1570	1533	1607	1581	1440	1401	1473	1485	1485
21	1529	1449	1416	1292	1108	1149	1169	1202	1077	973
22	847	621	626	571	539	588	678	656	709	763
23	888	990	958	935	952	1014	1229	1297	1364	1272

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 19- 7-1973
(DAY NO 200)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1313	1344	1362	1403	1414	1334	1270	1260	1221	1093
1	1030	960	964	996	1091	1155	1004	1212	1416	1502
2	1427	1471	1498	1502	1498	1445	1231	1026	938	1112
3	1133	1026	829	731	889	1036	1055	1068	989	1012
4	987	883	723	711	808	911	1132	1030	980	1046
5	1139	1051	1012	924	907	940	980	1005	990	944
6	790	787	760	686	691	744	823	928	1004	1040
7	1038	1016	1036	975	997	1026	1066	1120	1135	1131
8	1146	1078	1079	1041	1078	1142	1255	1259	1238	1204
9	1169	1204	1227	1249	1159	1141	1170	1173	1208	1234
10	1225	1211	1180	1163	1151	1110	1108	1141	1126	1169
11	1149	1204	1214	1221	1210	1190	1184	1167	1166	1171
12	1166	1160	1152	1114	1145	1171	1139	1060	1091	1026
13	1100	1116	1089	1208	1199	1231	1350	1346	1342	1339
14	1334	1274	1225	1149	1144	1161	1159	1191	1195	1192
15	1144	1155	1102	1098	1116	1100	1019	973	1028	1019
16	1038	1032	1048	1066	1081	1093	1138	1137	1120	1130
17	1141	1144	1126	1139	1098	1092	1060	997	971	926
18	898	850	807	881	924	938	954	994	964	935
19	903		934	1053	1115	1102	1143	1149	1151	1175
20	1186	1188	1190	1173	1149	1034	952	872	872	883
21	810	737	864	840	964	1036	1046	1043	1042	1024
22	1015	1031	1030	985	951	945	942	954	926	893
23	960	899	1008	997	1001	979	952	1031	1048	1016

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 20- 7-1973
(DAY NO 201)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1026	1028	1042	1053	1073	1081	1079	1039	967	861
1	829	840	870	883	858	845	870	842	954	1077
2	1143	1236	1306	1410	1438	1412	1301	1285	1354	1334
3	1290	1239	1165	1157	1155	1032	971	903	969	956
4	1014	983	883	784	719	600	705	899	941	829
5	1026	1077	1120	1122	1056	938	1051	1135	1185	1272
6		1326	1260	1096	1023	820	739	663	696	581
7	635	665	752	851	893	930	975	944	1043	1091
8	1139	1139	1152	1148	1186	1179	1190	1197	1194	1193
9	1187	1174	1157	1118	960	688	342	437	528	584
10	647	684	737	662	619	553	546	562	560	585
11	596	615	602	600	604	547	527	524	528	537
12	553	566	572	578	613	613	610	606	602	591
13	630	595	552	523	486	433	419	362	331	281
14	320	324	383	516	596	547	564	515	523	529
15	801	1031	1149	1240	1275	1294	1312	1337	1325	1327
16	1332	1326	1321	1322	1325	1318	1319	1328	1345	1334
17	1286	1391	1389	1398	1400	1405	1402	1403	1405	1409
18	1410	1411	1410	1410	1409	1408	1414	1422	1425	1432
19	1436	1446	1451	1460	1464	1483	1492	1492	1514	1522
20	1523	1524	1526	1527	1517	1510	1506	1483	1486	1475
21	1432	1387	1414	1401	1431	1509	1550	1599	1649	1653
22	1665	1667	1690	1723	1741	1749	1733	1729	1735	1746
23	1764	1744	1745	1755	1758	1756	1781	1782	1784	1787

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 21- 7-1973
(DAY NO 202)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1789	1792	1792	1793	1789	1795	1797	1800	1802	1805
1	1809	1811	1811	1814	1812	1812	1812	1815	1816	1815
2	1816	1818	1820	1824	1826	1822	1820	1821	1826	1822
3	1826	1811	1791	1697	1636	1625	1773	1849	1844	1845
4	1857	1861	1850	1871	1880	1890	1892	1893	1898	1899
5	1896	1901	1902	1902	1902	1903	1902	1902	1902	1902
6	1902	1902	1901	1900	1899	1899	1899	1898	1897	1896
7	1895	1894	1889	1889	1888	1880	1851	1828	1808	1737
8	1752	1752	1742	1741	1742	1744	1572	1453	1389	1354
9	1383	1426	1482	1587	1678	1680	1681	1680	1678	1674
10	1661	1654	1653	1651	1651	1658	1618	1616	1598	1574
11	1567	1564	1558	1557	1555	1545	1543	1529	1512	1524
12	1530	1527	1523	1523	1517	1515	1521	1517	1511	1508
13	1505	1498	1494	1496	1492	1490	1463	1412	1394	1371
14	1375	1308	1139	950	789	907	1178	1347	1327	1321
15	1262	1269	1237	1108	975	795	756	797	797	872
16	883	919	985	1040	1075	1126	1155	1173	1168	1215
17	1241	1271	1274	1316	1321	1354	1363	1361	1363	1357
18	1352	1341	1344	1336	1290	1305	1297	1290	1286	1265
19	1273	1271	1269	1268	1264	1261	1255	1253	1257	1258
20	1253	1255	1251	1244	1251	1259	1255	1253	1258	1262
21	1268	1267	1271	1283	1286	1302	1288	1289	1282	1277
22	1279	1258	1245	1233	1260	1238	1235	1251	1279	1285
23	1223	1071	952	816	946	1163	1243	1259	1274	1303

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED FATHOMS

DATE 22- 7-1973
(DAY NO 203)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1317	1338	1344	1344	1345	1346	1317	1292	1286	1279
1	1275			1253	1249	1241	1241	1237	1234	1231
2	1228	1221	1210	1132	1029	823	867	712	570	549
3	641	901	1144	1178	1206	1227	1245	1262	1265	1268
4	1274	1280	1284	1287	1290	1290	1290	1288	1286	1286
5	1291	1292	1283	1278	1272	1266	1262	1253	1253	1253
6	1266	1266	1257	1262	1251	1247	1260	1247	1238	1231
7	1222	1212	1173	1124	1085	1038	837	831	808	829
8	751	649	549	472	365	379	231			
9	414					407				
10	365					385				
11	310					259				
12	326					308				
13	363	308	363	286	468	692	303	318	357	383
14	1229	1235	1241	1254	1272	1288	1304	1310	1291	1235
15	1311	1313	1315	1288	1301	1053	535	784	1219	1317
16	1383	1404	1415	1425	1436	1446	1458	1463	1467	1473
17	1464	1464	1412	1358	1400	1416	1369	1348	1389	1373
18	1286	1255	1314	1364	1383	1397	1435	1446	1460	1494
19	1459	1630	1820	2003	2003	2003	2003	2003	1827	1704
20	1581	1475	1378	1385	1377	1364	1323	1314	1292	1307
21	1354	1364	1355	1394	1405	1424	1397	1463	1476	1467
22	1466	1463	1457	1449	1434	1437	1430	1426	1400	1395
23	1389	1357	1366	1368	1369	1389	1410	1414	1421	1433

RRS DISCOVERY CRUISE NUMBER 54 LFG 1
DEPTH IN CORRECTED FATHOMS

DATE 23- 7-1973
(DAY NO 204)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1434	1368	1471	1470	1473	1477	1477	1476	1471	1344
1	1300	1306	1307	1305	1287	1317	1331	1340	1343	1366
2	1463	1579	1754	1880	1993	1997	2000	1997	2001	2003
3	2003	2004	2001	1982	1462	1391	1287	1297	1312	1312
4	1287	1376	1422	1434	1457	1457	1454	1467	1455	1453
5	1438	1485	1470	1383	1238	1372	1375	1360	1274	1290
6	1311	1272	1128	1288	1329	1343	1343	1213	1067	1200
7	1304	1317	1317	1297	1283	1265	1242	1132	999	897
8	791	684				379				
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 26- 7-1973
(DAY NO 207)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	337	187	16448*48	16448*48	16448*48	16448*48	16448*48	16448*48	16448*48	16448
13	1230	1227	412	629	772	979	1141	1222	1235	1231
14	1286	1265	1239	1261	1278	1292	1299	1304	1309	1306
15	1247	1329	1268	1247	1260	1114	674	396	915	1169
16	1451	1451	1318	1216	1371	1408	1424	1434	1447	1451
17	1372	1362	1450	1455	1453	1432	1381	1346	1350	1357
18	1440	1434	1346	1325	1274	1316	1467	1467	1455	1451
19	1179	1126	1424	1383	1364	1356	1349	1345	1268	1212
20	1061	1184	1075	1025	956	844	850	803	824	924
21	1545	1545	1234	1267	1317	1378	1403	1444	1395	1498
22	1889	1849	1601	1896	1914	1909	1907	1906	1906	1901
23	1797	1816	1746	1715	1696	1614	1607	1601	1593	1607
			1829	1829	1822	1812	1783	1758	1733	1713

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 27- 7-1973
(DAY NO 208)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1628	1545	1486	1418	1383	1307	1334	1571	1621	1731
1	1762	1781	1789	1797	1764	1820	1812	1867	1787	1874
2	1891	1866	1709	1730	1753	1773	1895	1880	1880	1880
3	1887	1898	1901	1889	1901	1903	1897	1872	1873	1868
4	1867	1859	1852	1853	1851	1849	1847	1849	1845	1841
5	1831	1835	1806	1785	1789	1694	1628	1625	1675	1694
6	1694	1655	1624	1522	1494	1422	1562	1591	1582	1577
7	1606	1601	1595	1591	1587	1583	1583	1581	1576	1572
8	1565	1562	1559	1564	1484	1426	1494	1505	1481	1472
9	1334	1422	1461	1464	1456	1462	1459	1471	1469	1479
10	1468	1465	1463	1456	1453	1466	1469	1469	1464	1455
11	1447	1444	1441	1436	1430	1428	1417	1413	1412	1399
12	1400	1383	1356	1345	1331	1297	1301	1296	1255	1194
13	1219	1206	1178	1114	1071	1038	1008	973	921	819
14	791	871	860	849	846	784	887	860	861	852
15	855	770	794	800	729	906	887	870	817	654
16	412	482	535	492	453	599	533	537	530	481
17	468	553	685	642	917	725	924	674	600	637
18	850	906	1032	950	937	1007	954	913	917	919
19	919	919	919	919	919	991	1024	1145	1161	1231
20	1262	1389	1471	1519	1539					
21	1508	1510	1529	1477	1377	1445	1375	1282	1216	1268
22	1325	1416	1459	1440	1508	1477	1519	1564		
23		1626	1663	1718	1725	1711	1564	1416	1190	883

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 28- 7-1973
(DAY NO 209)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	621	975	1282	1457	1578	1661	1696	1715	1706	1661
1	1620	1529	1521	1508	1414	1459	1399	1352	1307	1303
2	1316	1420	1469	1373	1463	1515	1447	1510	1535	1552
3	1566	1502	1492	1364	1268	1131	1323	1504	1524	1566
4	1630		1562	1525	1521	1467				
5										
6										
7	1523	1498	1426	1399	1377	1375	1441	1492	1510	1515
8	1340	1399	1408	1477			1338	1290	1297	1294
9								1566		
10										
11										
12	1451									
13						1686				
14	1667					1733				
15	1725				1729					
16	1727									
17	1735	1636	1628	1622	1620	1621	1621	1729	1583	1574
18	1570	1529	1467	1508	1529	1564	1614	1626	1725	1626
19	1599	1576	1492	1461	1397	1416	1416	1397	1366	1294
20										
21										
22										
23									1241	1331

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 29- 7-1973
(DAY NO 210)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1425	1519	1469			1502				
1					1538	1534	1457	1387	1401	1379
2	1327	1303	1329	1354	1416	1467	1373	1424	1523	1477
3	1552	1529	1511	1605	1535	1508	1399	1216	1085	1194
4	1375	1519	1550	1601	1587	1563	1578	1517	1514	1508
5	1469	1408	1403	1428	1408	1389	1334	1361	1395	1354
6	1397	1563								
7										
8										
9										
10										
11		1539	1484	1457	1412	1461	1418	1323	1266	1219
12	1190	1171	1241	1371	1231	958	1081	1067	1071	1065
13	1075	1061	1046	1032	1024	1030	1059	1085	1139	
14	1313			1334		1288				1190
15		1188			1145				1126	
16	1155		1241	1241	1231	1237	1268	1315	1323	1325
17	1334	1334	1343		1344		1292		1231	
18	1067	1046	1059	983	1063	1077	1171			
19	1186	1175	1288	1375	1266	1128	940	954	999	
20								1020	1024	1046
21	1059	1069	1057	1126	1245	1334	1465	1554	1587	1624
22	1702	1591	1463	1403	1408	1401	1420		1437	
23	1453		1452		1447		1447		1454	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 30- 7-1973
(DAY NO 211)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1471		1533		1597					
1			1723							
2										
3	1636				1589		1576		1550	
4	1558		1554		1557		1527		1403	
5	1376	1286	1251	1253	1257	1251	1232	1087	1075	1072
6	1070	1067	1067	1057	985	936	957	915	908	801
7	870	821	896	921	842	836	831		831	849
8	897	977	1190	1299	1445	1486	1529	1558	1498	1490
9	1418	1204	1278	1190	1055	1087	1073	1128	979	1012
10	1134	1081	1030	1009	985	903	877	900	983	997
11	987	990	950		977		964		1077	
12	1026		1106		1075		1210		1288	
13	1210		1137		1143		1144		1083	
14	1128		1068		1135		1144		1196	
15	1079		1077		1057		1056		1001	
16	979		940		948		937		921	
17	885		809		860		872		821	852
18	852		921		872		840		803	
19	862		917		1005		1139		1303	
20	1288		1373				1543		1465	
21	1389		1243		1153		1026		991	
22	991		1216	1292	1323	1519	1405	1202	1212	1112
23	980	909				778				

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 31- 7-1973
(DAY NO 212)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	854					813				
1	880					1031				
2	1198					1032				
3	1091					1093				
4	1115					1126				1143
5	1200		1085	988	1045	870	969	1149	1272	1399
6	1467	1405	1432	1401	1381	1389	1421	1424	1416	1412
7	1405								1292	
8								1308		
9										
10										
11							1334			
12										
13						1280				
14	1272									
15	1432					1545	1554	1564	1630	1510
16	1447	1348	1385	1418	1430		1383		1414	1412
17	1410	1409	1408	1406	1408		1410		1412	
18	1393		1365		1346		1323		1299	
19	1276		1264		1206		1147		1132	
20	1139					1026	1118	1221	1292	1436
21	1500	1529	1597	1539	1542	1485	1409	1354	1251	1153
22	1141	1050	1012	989	999	1078	1108	1194	1076	1003
23				1239	1366	1421	1164			

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 1- 8-1973
(DAY NO 213)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	909	707	613	584	741	736	763	797	821	707
1	749	814	907			976				
2	983	958	900	895	899	926	943	952	948	846
3	879	789	944	947	935	907	938	969	942	907
4	915	940	924	921	819	763	737	812	887	930
5	911	825	940	951	935	939	926	905	846	848
6	870	874	876	879	872	886	909	921	940	946
7	994	1022	1001	1054	1087	1089	1097	1055	1042	1018
8	995		1109		1092		1078		1086	
9	1007		941		985		989		964	
10	942		952		883		821		782	
11	723		748		799					
12										
13	922	879	932			891	897	952	860	866
14	741	811	831	723	748	613	531	664	930	738
15	1077	1083	1139	1190	1455	1364	1299	1278	838	995
16	1299	1357	1383	1326	1272	1301	1303	1284	1305	1323
17	1382	1278	1368	1360	1383	1205	997	921	1292	1356
18	1126	1128	1091	1108	1106	1038	1036	1042	991	1069
19	1050	1050	1009	1012	1021	1036	1076	1042	1034	1030
20	1366	1431	1448		1457		1473	1134	1231	1311
21	1498		1515		1521		1525		1490	
22	1532		1532		1536		1536		1530	
23	1554	1535	1530	1516	1515	1489	1375	1424	1541	1382

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 2- 8-1973
(DAY NO 214)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1373	1365	1372	1388	1401	1433	1459	1472	1473	1479
1	1484	1473	1477	1487	1503	1530	1535	1530	1524	1539
2	1567	1578	1581	1489	1512	1552	1563	1542	1533	1503
3	1473	1222	1334	1403	1400	1289	1169	1329	1317	1502
4	1586	1564	1457	1455	1420	1459	1477	1521	1543	1552
5	1502	1552	1564	1585	1593	1601	1606	1611	1619	1629
6	1621	1603	1576	1694	1712	1725	1727	1717	1704	1605
7	1653	1602	1538	1529	1560	1636	1609	1655	1745	1740
8	1721	1765	1759	1730	1593	1620	1791	1816	1825	1826
9	1818	1828	1823	1704	1678	1712	1729	1737	1789	1837
10	1831	1831	1800	1868	1870	1905	1912	1934	1941	1959
11	1959	1956	1932	1930	1961	1960	1964	1943	1835	1889
12	1882	1893	1858	1881	1881	1878	1839	1739	1820	1890
13	1901	1916	1916	1916	1858	1833	1869	1870	1620	1642
14	1650	1636	1684	1692	1691	1663	1480	1502	1587	1669
15	1660	1667		1680		1672		1670		1676
16		1673		1673		1674		1682		1692
17		1698		1698		1682		1675	1674	1673
18	1626	1597	1508	1491	1487	1582	1605	1591	1649	1665
19	1647	1618	1519	1492	1517	1587	1733	1805	1817	1824
20	1808	1783	1723	1925	1941		1946		1935	
21	1942		1940		1924	1904	1903	1843	1925	1949
22	1960		1962		1967		1968		1968	
23	1962	1909	1787	1593	1395	1344	1169	1488	1820	1985

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 3- 8-1973
(DAY NO 215)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2009	2015	2026	2025	1928	1880	1977	2009	2046	2045
1	2025	1920	1633	1669	1837	1841	1860	1872	1893	1969
2	1904	1829	1531	1562	1652	1870	2088	2070	1976	1887
3	1808	1785	1740	1829	2057	2180	2189	2201	2205	2206
4	2207	2207	2205	2201	2197	2193	2185	2182	2180	2177
5	2172	2169	2165	2160	2151	2148	2145	2074	1986	1926
6	1916	1907	1900	1891	1906	1916	1829	1684	1570	1531
7	1450	1388	1371	1341	1321	1249	1206	1195	1139	991
8	850	733	614	465	428					
9	462					602				
10	780									
11	855					958		1046		
12	1125	1132	1152	1185	1202	1220	1246	1259	1278	1302
13	1321	1332	1343	1352	1353	1360	1367	1380	1381	1386
14	1406	1466	1507	1594	1588	1510	1253	1276	1190	1153
15	1237	1298	1321	1294	1366	1406	1517	1562	1657	1742
16	1939	1987	2016	2030	2031	2030	2029	2029	2029	2024
17	2010	2002	1999	2003	2009	2012	2014	2013	2010	2005
18	1993	1987	1979	1970	1961	1948	1931	1914	1902	1891
19	1883	1875	1863	1858	1837	1829	1827	1826	1833	1829
20	1835	1842	1860	1863	1878	1871		1894		1903
21	1912		1933		1945		1970		1942	
22	1970		1989		2018		2031	2010	1962	2031
23	2099	2124	2204	2253	2256	2262	2269	2278	2285	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 4- 8-1973
(DAY NO 216)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2297	2294	2304	2302	2235	2226	2214	2254	2264	2271
1	2325	2318	2304	2300	2290	2282	2280	2150	2093	2058
2	2106	2114	2170	2204	2256	2265	2274	2169	2173	2141
3	2122	2129	2145	2158	2275	2302	2350	2402	2416	2424
4	2428	2430	2415	2407	2381	2367	2362	2360	2362	2385
5	2359	2350	2353	2361	2339	2322	2325	2345	2419	2413
6	2420	2419	2432	2447	2444	2451	2456	2459	2459	2452
7	2453	2449	2446	2436	2429	2438	2441	2448	2455	2439
8	2426	2424	2437	2439	2436	2430	2428	2436	2438	2428
9	2431	2406	2393	2377	2396	2343	2403	2400	2376	2366
10	2405	2440	2438	2440	2445	2442	2371	2323	2373	2386
11	2386	2353	2350	2346	2333	2242	2203	2223	2275	2227
12	2202	2235	2299	2312	2318	2331	2342	2362	2366	2359
13	2365	2357	2354	2356	2373	2354	2355	2355	2364	2361
14	2352	2360	2361	2354	2355	2340	2334	2323	2310	2298
15	2290	2292	2288	2273	2263	2256	2266	2232	2156	2091
16	2118	2116	2161	2182	2181	2153	2183	2210	2178	2225
17	2212	2226	2230	2233	2233	2229	2208	2204	2202	2200
18	2195	2181	2166	2168	2173	2133	2095	2103	2013	1943
19	1934	1933	1946	1924	1908	1848	1825		2007	1995
20	1996	1991	1977	1975	1971	1961	1964	1996	2016	2008
21	1941	1954	1914	1980	1993	1991	2030	2062	2085	2129
22	2134	2139	2114	2124	2177	2204	2206	2216	2160	2192
23	2227	2235	2233	2202	2212	2195	2187	2197	2195	2206

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 5- 8-1973
(DAY NO 217)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2158	2132	2114	2092	2081	2067	2060	2047	2040	2045
1	2039	2043	2027	2040	2028	2031	2027	2041	2047	2033
2	2032	2043	2054	2060	2076	2097	2124	2161	2173	2227
3	2243	2275	2296	2310	2342	2359	2380	2388	2405	2420
4	2436	2460	2476		2510	2528	2555	2566	2570	2577
5	2592	2602	2620	2628	2633	2637	2643	2640	2645	2650
6	2645	2648	2678	2533	2571	2630	2628	2638	2636	2640
7	2664	2700	2704	2703	2689	2613	2581	2363	2254	2331
8	2428	2520	2516		2525	2656	2667	2673	2682	2587
9	2531	2472	2391	2388	2388	2525	2588	2615	2696	2704
10	2714	2727	2732	2744	2755	2773	2782	2791	2796	2798
11	2793	2758	2772	2773	2759	2698	2676	2573	2518	2521
12	2574	2583	2581	2574	2592	2631	2668	2746	2775	2778
13	2777	2778	2790	2793	2792	2789	2794	2796	2791	2789
14	2773	2750	2735	2731	2735	2734	2743	2753	2759	2760
15	2765	2774	2768	2761	2763	2782	2757	2744	2729	2737
16	2740	2738	2736	2758	2767	2776	2758	2738	2742	2736
17	2750	2766	2782	2808	2829	2827	2820	2801	2714	2640
18	2582	2560	2577	2587	2597	2612	2700	2795	2846	2856
19	2879	2880	2875	2853	2848	2861	2869	2882	2888	2892
20	2814	2778	2863	2863	2894	2894	2884	2854	2827	2805
21	2810	2810	2806	2806	2789	2787	2791	2787	2795	2791
22	2755	2710	2615	2577	2453	2461	2529	2668	2710	2704
23	2700	2700	2706	2710	2714	2706	2704	2707	2717	2695

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 6- 8-1973
(DAY NO 218)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2667	2590	2554	2430	2449	2440	2497	2611	2590	2525
1	2428	2372	2499	2537	2478	2536	2535	2518	2510	2516
2	2512	2510	2512	2511	2478	2466	2455	2454	2405	2346
3	2286	2302	2318	2338	2391	2375	2369	2369	2325	2337
4	2317	2294	2277	2202	2188	2122	2060	1945	1873	1884
5	1831	1805	1763	1777	1802	1798	1782	1780	1777	1790
6	1852	1936	1934	1950	1956	2035	2020	1968	1871	1910
7	1970	2100	2095	2037	2056	2187	2234	2256	2235	2179
8	2244	2279	2375	2501	2710	2886	2901	2854	2846	2848
9	2830	2710	2710	2706	2721	2744	2827	2844	2814	2731
10	2657	2630	2558	2531	2535	2575	2624	2647	2629	2611
11	2560	2493	2581	2556	2552	2493	2487	2478	2478	2489
12	2472	2494	2476	2457	2469	2447	2436	2445	2453	2468
13	2463	2455	2459	2455	2449	2434	2420	2416	2430	2447
14	2450	2415	2418	2396	2366	2359	2342	2331	2323	2309
15	2362	2367	2397	2335	2390	2399	2394	2407	2439	2480
16	2506	2489	2500	2494	2470	2461	2472	2477	2482	2489
17	2498	2519	2535	2537	2520	2497	2440	2473	2489	2520
18	2545	2562	2567	2581	2609	2633	2645	2659	2687	2708
19	2714	2743	2767	2795	2806	2802	2813	2810	2814	2816
20	2822	2832	2826	2807	2793	2784	2777	2795	2807	2808
21	2738	2609	2531	2476	2472	2485	2478	2487	2481	2476
22	2495	2526	2541	2541	2650	2647	2633	2748	2583	2531
23	2535	2556	2550	2540	2510	2447	2472	2552	2571	2573

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 7- 8-1973
(DAY NO 219)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2565	2552	2541	2457	2434	2460	2454	2468	2476	2491
1	2492	2470	2413	2410	2329	2298	2281	2285	2285	2298
2	2350	2382	2409	2438	2415	2463	2510	2523	2501	2485
3	2456	2469	2478	2489	2501	2535	2567	2628	2632	2636
4	2643	2653	2681	2681	2638	2617	2646	2655	2644	2632
5	2712	2710	2575	2634	2679	2681	2650	2619	2594	2612
6	2541		2468	2457	2459	2407	2390	2409	2474	2497
7	2525	2540	2558	2560	2558	2571	2575	2579	2574	2558
8	2540	2562	2567	2568	2574	2565	2569	2543	2511	2493
9	2473	2463	2444	2411	2405	2377	2349	2305	2280	2247
10	2248	2212	2198	2157	2138	2108	2100	2096	2088	2079
11	2070	2045	2036	2027	2008	1981	1976	1943	1937	1933
12	1914	1908	1910	1875	1860	1842	1819	1782	1771	1745
13	1757	1715	1713	1687	1691	1666	1655	1657	1631	1653
14	1629	1620	1624	1622	1612	1594	1604	1602	1591	1558
15	1503	1436	1374	1337	1311	1349	1348	1323	1303	1287
16	1283	1275	1271	1262	1247	1237	1221	1198	1198	1155
17	1121	1062	1023	986	991	984	961	917	898	879
18	854	849	850	851	846	840	826	829	822	814
19	810	812	827	816	816	815	814	814	816	818
20	820	823	839	845	866	882	922	936	950	988
21	1002	993	1048	1067	1117	1146	1161	1194	1218	1276
22	1281	1287	1279	1253	1207	1181	1208	1171	1140	1087
23	1091	1044	1013	1009	1023	1027	1038	1052	1043	1066

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 8- 8-1973
(DAY NO 220)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1089	1083	1082	1061	1089	1126	1137	1111	1082	1069
1	1062	1041	1019	1007	986	972	928	923	909	879
2	884	862	849	851	847	836	830	832	842	844
3	853	878	890	912	1051	1171	1267	1347	1395	1444
4	1464	1490	1525	1569	1595	1606	1612	1622	1631	1645
5	1653	1658	1655	1643	1638	1585	1525	1472	1484	1498
6	1506	1512	1529	1495	1513	1565	1612	1616	1629	1638
7	1643	1643	1646	1651	1668	1671	1666	1662	1660	1671
8	1657	1655	1654	1651	1653	1653	1618	1629	1615	1610
9	1608	1598	1568	1505	1482	1476	1479	1459	1469	1459
10	1404	1373	1337	1380	1339	1354	1353	1346	1374	1427
11	1451	1482	1546	1556	1544	1536	1538	1536	1514	1515
12	1518	1518	1520	1530	1556	1550	1526	1528	1539	1541
13	1541	1558	1567	1571	1574	1579	1573	1557	1571	1560
14	1540	1554	1540	1525	1501	1483	1457	1453	1455	1458
15	1463	1470	1475	1485	1488	1512	1522	1563	1560	1585
16	1608	1633	1684	1721	1748	1785	1798	1823	1867	1890
17	1924	1954	1956	1943	1956	1970	1967	1971	1975	1974
18	1975	1989	1983	1989	1993	1993	2052	2080	2095	2096
19	2092	2096	2122	2133	2148	2159	2174	2162	2139	2119
20	2114	2121	2127	2129	2130	2130	2132	2252	2256	2260
21	2262	2237	2211	2197	2206	2209	2206	2204	2205	2201
22	2191	2186	2189	2180	2172	2167	2165	2157	2158	2161
23	2149	2118	2110	2106	2115	2119	2117	2120	2120	2119

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 9- 8-1973
(DAY NO 221)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2111	2097	2089	2080	2066	2059	2060	2070	2074	2071
1	2066	2059	2042	1970	2008	1991	1975	1943	1956	1960
2	1968	1966	1975	1981	1983	1981	1981	1991	1991	1988
3	1978	1955	1941	1939	1927	1910	1900	1891	1877	1867
4	1867	1824	1798	1792	1856	1831	1848	1852	1856	1831
5	1817	1819	1815	1825	1802	1817	1811	1788	1774	1784
6	1724	1713	1701	1691	1697	1686	1714	1733	1765	1614
7	1515	1351	1197	943	644	388	358	430	430	515
8	695					864		931		1030
9		925		727		467				
10	535					578				
11	664	576	426	320	462	499	808	970	1037	1045
12	1019	964	742	793	650	628	451	441	406	391
13	586	633	1142	1391	1395	1521	1633	1685	1715	1751
14	1769	1767	1835	1865	1879	1888	1903	1910	1922	1931
15	1935	1933	1927	1889	1918	1950	1956	1921	1991	2018
16	2037	2059	2070	2076	2080	2085	2091	2096	2103	2112
17	2117	2124	2127	2129	2128	2130	2136	2137	2139	2139
18	2127	2133	2155	2188	2196	2202	2177	2149	2164	2179
19	2218	2220	2218	2218	2197	2220	2251	2254	2253	2252
20	2253	2254	2257	2258	2258	2258	2250	2251	2248	2231
21	2246	2241	2229	2193	2164	2133	2094	2052	2021	1985
22	1968	1948	1943	1918	1912	1929	1931	1921	1931	1943
23	1964	1966	1957	1964	1975	1980	1984	1990	1993	1997

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 10- 8-1973
(DAY NO 222)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1999	2002	2007	2012	2015	2017	1999	1977	1943	1910
1	1610	1598	1804	1801	1732	1676	1365	1169	1134	1099
2	1077	1034	1120	1190	1501	962	1966	1958	2100	2168
3	2254	2335	2355	2367	2362	2373	2382	2386	2391	2393
4	2400	2403	2411	2408	2409	2413	2415	2426	2433	2438
5	2445	2444	2450	2451	2449	2461	2471	2472	2478	
6	2508	2516	2527	2536	2542	2552	2560	2558	2567	2569
7	2566	2567	2556	2554	2552	2548	2538	2509	2499	2485
8	2481	2479	2481	2481	2481	2481	2481	2468	2460	2445
9	2445	2441	2431	2421	2408	2391	2329	2331	2321	2314
10	2312	2299	2280	2254	2215	2205	2161	2074	2058	2031
11	1858	1831	1831	1583	1379	1233	1157	937	734	521
12	443	416	307	233	124	126	130	134	134	146
13	161	159	174	225	284	342	431	515	523	551
14	495	520	537	555	555	670	763	884	952	1038
15	1214	1099	1208	1181	1216	1270	1297	1343	1379	1369
16	1258	1170	1090	1106	1138	1155	1161	1161	1172	1177
17	1224	1255	1253	1373	1476	1578	1733	1830	1952	2053
18	2114	2168	2208	2240	2288	2327	2340	2348	2354	2367
19	2373	2373	2392	2408	2411	2398	2440	2439	2392	2356
20	2362	2374	2389	2384	2378	2369	2382	2402	2419	2425
21	2445	2472	2493	2507	2527	2503	2500	2502	2499	2494
22	2469	2454	2449	2438	2433	2433	2442	2481	2493	2520
23	2518	2497	2449	2436	2420	2412	2441	2437	2444	2450

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 11- 8-1973
(DAY NO 223)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2457	2430	2400	2375	2352	2334	2303	2260	2252	2240
1	2230	2221	2198	2202	2180	2157	2147	2127	2129	2120
2	2110	2085	2071	2065	2070	2089	2106	2108	2103	2088
3	2110	2149	2168	2184	2205	2226	2229	2238	2252	2277
4	2310	2343	2371	2382	2403	2414	2430	2468	2482	2481
5	2489	2491	2495	2520	2537	2547	2552	2556	2561	2565
6	2567	2567	2567	2568	2568	2568	2568	2568	2567	2552
7	2599	2621	2636	2642	2643	2645	2646	2647	2647	2647
8	2648	2648	2648	2648	2647		2646		2645	
9	2643		2643		2640		2636		2626	2558
10	2478	2407	2335	2248	2197	2198	2206	2135	2089	2004
11	1883	1844	1829	1847	1890	1897	1910	1921	1932	1928
12	1950	1970	1995	2025	2030	2018	1994	2007	2033	2112
13	2184	2261	2335	2356	2363	2190	2149	2170	2310	2638
14	2649	2747	2766	2780	2780	2825	2899	2944	3004	3012
15	3014	3013	2978	2931	2876	2835	2774	2753	2499	2417
16	2287	2183	2096	2048	2049	2068	2056	2071	2103	2192
17	2285	2307	2318	2331	2322	2178	1908	1775	1695	1645
18	1636	1663	1662	1718	1771	1910	1935	2016	2079	2134
19	2112	2239	2373	2562	2605	2727	2893	2906	2907	2908
20	2908		2908		2909		2910		2910	
21	2911		2911		2910		2909		2907	
22	2906		2903		2902		2902		2901	
23	2901		2901		2901		2901		2901	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 12- 8-1973
(DAY NO 224)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2901		2901		2902		2903		2904	
1	2906		2906		2906		2906		2906	
2	2907		2907		2907		2907		2910	
3	2910		2912	2897	2874		2844		2823	2808
4	2796	2789	2777	2772	2763	2750	2740	2737	2729	2723
5	2705	2702	2679	2657	2630	2607	2581	2559	2537	2514
6	2495	2473	2455	2439	2428	2426	2430	2415	2453	
7	2436	2321	2215	2212	2195	2122	2072	2041	2048	2072
8	2098	2125	2137	2137	2134	2164	2271	2292	2266	2174
9	2104	2087	1987	1900	1845	1823	1835	1775	1774	1713
10	1635	1600	1540	1424	1357	1350	1308	1275	1239	1200
11	1169	1155	1151	1154	1146	1151	1143	1130	1107	1081
12	1053	1023	989	951	915	884	885	648	660	781
13	815	810	822	834	822	795	867	865	865	875
14	894	906	915	924	923	923	919	918	922	936
15	960	982	1028	1069	1115	1165	1180	1210	1237	1267
16	1297	1321	1337	1348	1356	1372	1389	1433	1474	1495
17	1536	1580	1649	1748	1852	2008	2054	2112	2142	2143
18	2159	2177	2211	2254	2265	2284	2347	2402	2406	2441
19	2531	2643	2705	2706	2691	2681	2687	2700	2706	2711
20	2726	2743	2745	2723	2711	2703	2700	2696	2692	2688
21	2656	2633	2639	2647	2668		2716		2715	
22	2715		2714		2713		2713		2713	
23	2711		2711		2711		2710		2709	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED FATHOMS

DATE 13- 8-1973
(DAY NO 225)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2709		2709		2711		2715		2713	
1	2709		2708		2706		2706		2706	
2	2701	2695	2668	2688	2692	2691	2690	2690	2690	2690
3	2689		2691		2688		2688		2688	
4	2688	2688	2687	2687	2685	2685	2685	2685	2685	2685
5	2685	2683		2457	2682	2685	2684	2685	2683	2683
6	2679	2613	2575	2661	2666	2667	2668	2671	2671	2671
7	2670	2670	2670	2668	2668	2667	2666	2663	2660	2541
8	2577	2590	2607	2627	2658	2664	2667		2666	
9	2664		2660		2658		2657		2656	
10	2655		2654		2653		2652		2649	
11	2649		2647				2750		2748	
12	2641		2637		2636		2632		2630	
13	2627		2624		2620		2617		2613	
14	2610		2605		2601		2596		2588	
15	2581		2572		2563		2551		2539	
16	2497	2482	2459	2428	2426	2406	2391	2380	2352	2296
17	2272	2275	2310	2348	2373	2408	2411	2409	2382	2379
18	2414	2400	2328	2312	2290	2270	2258	2302	2350	2333
19	2322	2301	2271	2235	2138	2146	2026	2013	1829	1601
20	1346	1096	815	678	821	623	558	502	413	351
21	345	255	237	236	234	170	150	140	132	108
22	112	109	109							
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 1- 7-1973
(DAY MO 182)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18	137		137	135	135	135	135	137		
19	151						149	149	151	151
20	160							159	159	160
21	181	160	162	164	168	168	170	171	175	177
22	181	186	190	197	210	235	285	352	400	407
23	493	629	883	945	866	965	802	751	795	855

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 2- 7-1973
(DAY MO 183)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1077	1166	1170	1302	1347	1335	1364	1399	1435	1495
1	1484	1484	1490	1517	1453	1453	1457	1461	1468	1483
2	1495	1514	1530	1550	1567	1578	1598	1622	1629	1640
3	1656	1666	1675	1689	1704	1713	1730	1746	1761	1768
4	1775	1783	1784	1790	1786	1786	1788	1794	1801	1806
5	1810	1810	1812	1815	1821	1828	1837	1843	1848	1854
6	1861	1865	1861	1858	1836	1836	1812	1766	1742	1689
7	1638	1603	1578	1559	1543	1532	1514	1495	1464	1444
8	1424	1419	1362	1322	1274	1230	1194	1148	1100	1071
9	1016	972	934	896	855	817	782	751	724	696
10	663	640	616	592	574	557	546	534	523	517
11	512	508	504	502	501	501	501	501	501	502
12	502	502	502	502	502	502	502	502	502	502
13	502	502	501	495	490	490	490	490	491	491
14	497	499	495	490	482	475	464	460		
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 3- 7-1973
(DAY MO 184)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	188	190	190	192	195	195	197	201	202	206
1	210	215	221	224	237	245	254	263	274	279
2	276	287	290	290	287	290	290	296	301	298
3	305	309	312	310	316	318	320	323	325	329
4	329	331	332	332	334	336	343	341	343	343
5	343	347	343	343	343	347	347	349	349	354
6	356	360	362	365	371	373	378	380	385	387
7	395	400	404	409	416	418	420	426	429	433
8	437	440	446	453	459	464	470	477	482	491
9	497	501	504	501	493	486	486	493	499	501
10	501	495	490	479	471	475	486	493	499	497
11	493	493	493	493	493	491	491	491	491	491
12	491	490	490	490	490	490	490	490	491	490
13	491	497	501	502	502	504	504	504	504	504
14	504	501	499	493		493	491	493		
15										
16	491	493	495	497	495	493	491	493	495	497
17	502	501	501	501	501	497	493	491		
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 4-7-1973
(DAY NO 185)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4	491	490	490	493	497	502	508	513	521	522
5	529	548	557	566	574	583	596	618	624	652
6	674	693	629	758	782	808	821	839	863	892
7	925	961	996	1044	1097	1155	1245	1342	1420	1481
8	1547	1591	1698	1821	2123	2576	2867	2894	3114	3207
9	3213	3218	3449	3547	3617	3666	3705	3750	3811	3840
10	3880	3913	3942	3975	3995	4016	4036	4069	4100	4122
11	4136	4155	4167	4182	4197	4209	4220	4235	4254	4273
12	4301	4310	4330	4367	4389	4381	4416	4431	4431	4432
13	4440	4451	4462	4476	4493	4500	4520	4539	4562	4577
14	4597	4601	4617	4632	4646	4670	4678	4687	4705	4707
15	4720	4729	4740	4743	4747	4754	4758	4764	4767	4776
16	4785	4802	4807	4811	4817	4818	4820	4820	4820	4822
17	4824	4826	4829	4833	4833	4829	4828	4833	4835	4837
18	4837	4837	4837	4839	4839	4839	4839	4839	4837	4837
19	4837	4837	4837	4837	4839	4837	4539	4144	4462	4837
20	4839	4839	4840	4833	4771	4709	4734	4764	4822	4832
21	4837	4837	4837	4837	4837	4837	4837	4835	4825	4832
22	4833	4833	4833	4833	4813	4800	4764	4758	4767	4765
23	4749	4683	4561	4507	4458	4343	4312	4279	4250	4274

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 4-7-1973
(DAY NO 186)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4248	4261	4235	4220	4211	4208	4186	4173	4124	4136
1	4145	4112	4036	4047	4052	4001	3900	3838	3700	3824
2	3895	3917	3845	3970	4155	4273	4288	4323	4422	4515
3	4539	4555	4559	4555	4559	4568	4559	4548	4507	4513
4	4504	4513	4502	4518	4507	4504	4500	4425	4309	4343
5	4336	4290	4246	4281	4295	4275	4239	4262	4302	4423
6	4434	4409	4412	4367	4343	4125	4145	4133	4162	4120
7	4107	4131	4052	3961	3944	3926	3893	3891	4151	4617
8	4621	4621	4615	4625	4623	4615	4621	4621	4625	4623
9	4608	4601	4599	4599	4601	4601	4606	4608	4610	4610
10	4608	4608	4608	4610	4608	4612	4612	4612	4614	4621
11	4623	4623	4625	4625	4626	4626	4630	4625	4625	4620
12	4630	4630	4630	4636	4636	4636	4632	4630	4622	4622
13	4465	4337	4394	4442	4500	4546	4610	4690	4722	4723
14	4721	4720	4716	4712						4507
15	4405	4308	4173	4107	4180	4231	4270	4290	4414	4444
16	4511	4535	4522	4515	4504	4511	4518	4517	4518	4460
17	4420	4412	4431	4438	4431	4416	4403	4374	4350	4365
18	4363	4367	4374	4380	4400	4420	4465	4497	4519	4551
19	4584	4606	4646	4648	4643	4636	4626	4612	4505	4551
20	4471	4385	4277	4292	4292	4308	4312	4314	4309	4284
21	4186	4197	4129	4078	4197	4438	4626	4754	4820	4830
22	4840	4842	4844	4846	4846	4846	4846	4844	4844	4844
23	4842	4842	4842	4842	4835	4840	4842	4842	4842	4842

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 4-7-1973
(DAY NO 187)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4837	4835	4480	4365	4299	4101	3986	4087	4131	4155
1	4123	4178	4178	4111	3994	3948	3895	3915	4078	4109
2	4076	4101	4244	4398	4480	4487	4500	4480		
3						4489	4378	4273	4257	4246
4	4237	4173	4145	4156	4162	4140	4017	3972	3975	3966
5	3933	3913	3818	3800	3789	3811	3853	3899	3895	3878
6	3891	3867	3856	3825	3878	3906	3930	3920	3917	3920
7	3917	3926	3955	4089	4151	4166	4169	4186	4220	4228
8	4217	4220	4211	4166	4112	3994	3959	3953	4001	4078
9	4047	4043	4070	4116	4123	4123	4122	4129	4127	4129
10	4123	4120	4098	4086	4032	3899	3719	3794	3955	4089
11	4067	4050	4059	4080	4039	4021	4016	4005	4001	3988
12	3973	3972	3961	3964	3961	3935	3911	3900	3889	3882
13	3877	3871	3866	3858	3847	3836	3824	3792	3785	3763
14	3694	3591	3560	3547	3542	3487	3454	3469	3454	3450
15	3529	3547	3533	3482	3452	3385	3328	3247	3178	3107
16	3044	2964	2900	2807	2737	2660	2545	2428	2304	2183
17	2042	1936	1784	1709	1984	2055	2167	2393	2487	2545
18	2756	2898	3048	3178	3290	3524	3853	4462	4539	4539
19	4539	4539	4539	4539	4539	4540	4540	4540	4539	4539
20	4539	4537	4535	4535	4535	4535	4465	4473	4469	4471
21	4434	3791	3491	3300	2776	2536	2353	1874	1583	1720
22	1731	1411	1152	1075	1128	1327	1556	1764	1883	2042
23	2033	2286	2461	2607	2739	2843	2907	2938	2949	

D33

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 7- 7-1973
(DAY MO YEAR)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3013	3021	3024	3028	3048	3063	3074	3087	3088	3130
1	3130	3127	3138	3141	3130	3149	3165	3172	3194	3205
2	3213	3216	3229	3236	3240	3244	3255	3240	3247	3271
3	3288	3280	3282	3346	3364	3396	3414	3414	3418	3427
4	3434	3438	3450	3447	3441	3430	3429	3429	3430	3438
5	3458	3463	3476	3476	3483	3496	3500	3514	3520	3527
6	3536	3540	3547	3558	3564	3567	3575	3577	3577	3577
7	3582	3584	3584	3586	3584	3588	3588	3589	3595	3599
8	3604	3606	3606	3606	3606	3606	3608	3606	3608	3613
9	3613	3611	3610	3611	3611	3611	3611	3610	3610	3604
10	3606	3613	3613	3615	3613	3610	3610	3610	3610	3606
11	3604	3602	3604	3606	3606	3610	3608	3606	3602	3604
12	3604	3606	3606	3606	3606	3604	3606	3606	3604	3604
13	3602				3602					3602
14	3600				3588					
15	3578				3586			3595		3613
16	3606	3604	3606	3597	3560		3463	3405	3332	3300
17	3419	3525	3522	3558	3571	3533	3533	3507	3502	3547
18	3577	3599	3606	3628	3635	3628	3606	3529	3520	3525
19	3458	3483	3542	3792	3800	3803	3811	3813	3816	3834
20	3838	3845	3845		3847		3851		3851	3845
21	3824	3822	3814	3774	3703	3551	3419	3332	3293	3381
22	3397	3394	3335	3385	3306	3363	3452	3394	3412	3374
23	3503	3533	3542	3533	3599	3604	3575	3622	3708	3747

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 8- 7-1973
(DAY MO YEAR)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3791	3805	3818	3818	3842	3856	3761	3884	3948	3953
1	3955	3946	3933	3917	3871	3727	3706	3838	3824	3836
2	3824	3796	3781	3745	3728	3701	3650	3595	3540	3668
3	3699	3692	3692	3694	3705	3690	3672	3663	3610	3575
4	3571	3578	3588	3571	3578	3582	3591	3586	3582	3582
5	3582	3571	3569	3557	3560	3577	3586	3595	3588	3567
6	3553	3536	3533	3509	3472	3449	3447	3421	3427	3430
7	3429	3394	3344	3279	3222	3268	3269	3291	3290	3361
8	3394	3359	3410	3430	3427	3383	3260	3293	3268	3321
9	3310	3257	3268	3308	3368	3412	3456	3476	3505	3566
10	3491	3514	3701	3699	3686	3690	3679	3663	3663	3661
11	3644	3648	3637	3631	3622	3567	3595	3560	3504	3388
12	3224	3149	3419	3511	3514	3513	3474	3474	3487	3487
13	3483	3476	3469	3461	3461	3456	3469	3474	3465	3429
14	3399	3383	3350	3328	3321	3310	3311	3279	3266	3218
15	3207	3161	3037	3097	3112	3108	3112	3096	3136	3180
16	3260	3204	3264	3231	3218	3238	3246	3257	3136	3292
17	2732	2743	2713	2774	2750	2708	2704	2750	2827	3012
18	3037	3041	3030	3002	2951	2900	2905	2940	2957	2964
19	2955	2927	2916	2896	2898	2873	2885	2894	2911	2920
20	2926	2915	2905	2894	2885	2887	2891	2891	2891	2867
21	2856	2821	2840	2799	2735	2704	2657	2485	2359	2040
22	1971	1969	1858	1762	1483	1108	1020	989	958	952
23	949	932	903	918	963	985	1040	1314	1673	1772

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 9- 7-1973
(DAY MO YEAR)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1936	1969	1881	2024	2055	2161	2187	2189	2198	2205
1	2190	2179	2174	2163	2156	2145	2136	2121	2119	2112
2	2103	2086	2070	2086	2037	2018	1927	1762	1335	1159
3	1292	1598	1726	1841	1830	1876	1889	1894	1883	1878
4	1872	1865	1861	1850	1841	1834	1826	1819	1821	1812
5	1817	1823	1826	1841	1841	1870	1892	1881	1890	1874
6	1901	1872	1890	1887	1876	1896	1887	1894	1903	1907
7	1905	1909	1914	1940	1960	1984	1986	2006	1987	1973
8	1887	1808	1872	1898	1885	1843	1801	1815	1817	1815
9	1806	1777	1759	1757	1733	1717	1713	1698	1686	1680
10	1671	1642	1655	1664	1678	1675	1666	1666	1662	1658
11	1658	1658	1662	1664	1660	1664	1664	1667	1671	1662
12	1658	1662	1666	1653	1647	1638	1638	1651	1669	1669
13	1700	1704	1695	1715	1751	1768	1786	1814	1830	1794
14	1805	1828	1830	1828	1814	1819	1764	1730	1678	1645
15	1655	1581	1576	1550	1516	1494	1474	1472	1459	1494
16	1516	1534	1554	1572	1629	1611	1602	1570	1536	1516
17	1501	1474	1483	1325	985	1110	1547	1653	1700	1801
18	1933	1711	1876	1845	1876	1633	1614	1658	1775	1936
19	1819	1762	1751	2029	1876	1784	1689	1837	1644	2040
20	2044	2090	2221	2317	2328	2205	2174	2148	2218	2243
21	2189	2178	2156	2137	2137	2051	2018	1922	1896	1867
22	1794	1722	1751	1803	1810	1821	1794	1755	1808	1730
23	1850	1823	1909	1933	1896	1819	1850	1748	1751	1715

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 10- 7-1973
(DAY NO 191)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1869	1666	1770	1819	1870	1869	1815	1730	1698	1757
1	1803	1805	1794	1784	2022	2018	2059	2057	2039	1954
2	1905	2103	2029	2035	2042	2042	2011	2134	2245	2221
3	2189	2040	1880	1731	1677	1638	1576	1666	1753	1695
4	1762	1717	1784	1826	1815	1708	1819	1839	1885	1925
5	1980	2008	1984	1954	1746	1567	1660	1576	1442	1773
6	1927	1825	1658	1501	1885	1483	1464	1490	1400	1464
7	1464	1464	1415	1576	1781	1741	1876	1976	1901	1878
8	1746	1614	1543	1501	1497	1475	1461	1389	1340	1234
9	1292	1378	1516	1591	1733	1757	1837	1858	1689	1477
10	1613	1629	1622	1715	1640	1382	1490	1457	1640	1511
11	1655	1762	1876	1951	1960	1805	1689	1744	1912	2055
12	2200	2214	2209	2245	2115	2344	2382	2540	2631	2637
13	2633	2659	2713	2518	2351	2392	2439	2344	2273	2114
14	2103	1933	2172	1894	1753	1640	1627	1580	1528	1501
15	1404	1303	1558	1574	1625	1572	1400	1539	1640	1441
16	1133	1662	1539	1402	1400	1267	828	877	967	1340
17	1614	1761	1808	1825	1815	1591	1561	1730	1783	1651
18	1726	1887	1848	1810	1640	1351	993	950	978	1027
19	1102	1212	1313	1470	1475	1362	1461	1501	1472	1428
20	1501	1845	2137	2412	2691	2787	2799	2604	2498	2498
21	2390	2240	2340	2313	2276	2256	2104	2051	2026	2009
22	1991	1954	1965	1925	1901	1960	1953	1986	1944	1971
23	1947	1925	1922	1815	1644	1653	1580	1629	1625	1602

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 11- 7-1973
(DAY NO 192)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1607	1490	1314	1314	1228	1089	921	866	850	982
1	952	1046	1214	1501	1539	1558	1726	1783	1717	1837
2	2015	1987	1997	2029	2018	1976	1901	1830	1622	1452
3	1444	1289	1322	1481	1457	1450	1576	1684	1709	1258
4	1314	1591	1929	2254	2302	2386	2399	2382	2276	2360
5	2183	2004	2008	2048	1845	1775	1837	1916	1841	1960
6	1872	1912	1666	1757	1854	1762	1708	1464	1508	1558
7	1748	1810	1720	1656	1602	1715	1706	1666	1484	1351
8	1404	1225	1046	1146	866	1146	1188	1314	1519	1783
9	1892	1987	2298	2375	2377	2320	2108	1958	2011	2116
10	2024	1933	1805	1751	1708	1644	1474	1335	1501	1585
11	1731	1784	1817	2062	2033	2161	2161	2172	2134	2057
12	2053	2176	2269	2280	2300	2326	2445	2454	2461	2179
13	2223	2326	2287	2286	2249	2214	2179	2229	2298	2260
14	2286	2300	2322	2335	2351	2360	2324	2026	1918	2035
15	2053	2108	2194	2156	2275	1938	1850	2046	2020	2119
16	2216	2134	2134	2300	2435	2360	2196	2104	2104	2317
17	2333	2355	2269	2256	2315	2339	2355	2339	2295	2240
18	2165	2168	2174	2147	2174	2156	2101	1949	1958	2134
19	2064	1973	1998	2083	1987	2097	2154	2240	2200	2172
20	2147	2121	2075	2062	2070	2053	2086	1887	1936	1991
21	2033	2051	2075	2053	2092	2018	1975	1890	1881	1861
22	1837	1841	1848	1823	1786	1887	1812	1814	1790	1790
23	1900	1876	2026	2088	2073	2037	2059	1971	1815	1708

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 12- 7-1973
(DAY NO 193)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1724	1768	1810	1845	1856	1876	1912	1938	1938	1920
1	2020	1987	2031	1973	1920	1954	1987	2004	1993	1986
2	2095	2073	2051	2048	2051	2040	2009	2008	1951	1936
3	1922	1936	1951	1936	1768	1733	1772	1845	1843	1834
4	1836	1821	1797	1762	1733	1739	1819	1783	1250	1110
5	1075	1258	1314	1378	1166	1031	983	879	773	654
6	623	398	334	325	347	373	422	427	420	424
7	455	513	495	641	612	616	806	885	899	936
8	993	1038	1113	1170	1228	1294	1402	1464	1446	1499
9	1536	1378	1378	1292	1292	1291	1311	1217	1150	1250
10	1236	1230	1170	1141	1122	1121	1117	1078	993	738
11	641	621	596	585	572	561	555	548	544	541
12	526	519	515	497	493	488	484	488	482	480
13	491	486	502	519	523	535	541	583	702	735
14	764	735	740	733	753	806	757	554	658	716
15	828	866	1078	1265	1258	1082	1124	1254	1287	1382
16	1554	1644	1755	1823	1832	1794	1576	1607	1755	1724
17	1724	1711	1698	1704	1717	1730	1640	1735	1772	1768
18	1704	1591	1744	1689	1744	1737	1786	1741	1706	1623
19	1600	1569	1468	1417	1530	1598	1583	1602	1591	1576
20	1552	1291	1371	1512	1627	1742	1777	1828	1861	1929
21	2044	2181	2346	2344	2377	2346	2353	2329	2329	2326
22	2269	2249	2205	2203	2163	2147	2130	2110	2178	2176
23	2062	1893	1991	2110	2148	2168	2072	2081	2176	2211

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 13-7-1973
(DAY NO 194)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2251	2232						2322		2292
1	2139	2130			2018	1962	1903	1845	1861	1987
2	2070	2086	2093	2062	2062	1989	1927	1909	1783	1865
3	1883	1870	1933	1942	1848	1741	1528	1397	1192	1254
4	1307	1311	1389	1501	1614	1733	1726	1611	1647	1721
5	1689	1890	1980	1998	1956	1965	1989	1995	2004	1964
6	1762		1395	1207	1395	1278	1205	1121	1428	1576
7	1733	1826	1865	1805	1872	1912	2104	2072	2073	2123
8	2112	2128	2157	2163	2147	2192	2223	2408	2619	2626
9	2620	2543	2324	2287	2366	2724	2724	2344	1819	1484
10	1389	1199	1265	1444	1589	1640	1364	1225	1324	1362
11	1349	1347	1472	1300	1128	929	1093	1227	1486	1660
12	1744	1790	1786	1872	1823	2108	2258	2251	2450	2721
13	2821	2863	2803	2830	2803	2715	2514	2165	1980	1865
14	1759	1631	1667	1307	1411	1512	1450	1490	1550	1762
15	1887	2042	2232	2373	2404	2450	2485	2558	2487	2401
16	2348	2315	2245	2262	2172	2154	2051	2251	2238	2234
17	2086	2026	1912	1711	1598	1583	1479	1336	1305	1410
18	1347	1475	1550	1569	1640	1580	1475	1602	1464	1415
19	1384	1399	1239	1269	1594	1819	1958	1973	1898	1783
20	1823	1790	1867	1942	2251	2430	2558	2565	2635	2785
21	2924	2969	2938	2957	2876	2712	2635	2232	1933	1944
22	1530	1283	1408	1422	1536	1715	1936	2079	1997	1759
23	1741	1633	1744	1720	1858	1969	1993	1933	2101	1995

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 14- 7-1973
(DAY NO 195)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1936	1826	2004	1912	1751	1501	1572	1715	2141	2269
1	2048	1936	1881	2073	2190	2291	2280	2439	2633	2814
2	2874	3023	3026	2990	2977	2885	2920	2904	2922	2894
3	2920	2796	2735	2785	2675	2646	2626	2494	2596	2693
4	2487	2518	2589	2810	2668	2589	2777	2942	3151	2885
5	2739	2551	2461	2247	2062	2194	2262		1837	1762
6	2040	2055	2176	2119	1885	1852	2137	2232	2326	2443
7	2600	2551	2251	1933	1929	1909	1947	1841	1636	1786
8	1912	1861	1810	1887	1764	1622	1397	1371	1351	1351
9	1375	1506	1905	2022	2262	2507	2693	2788	2916	2935
10	2915	2880	2810	2774	2434	2328	2145	2011	2004	1975
11	1965	1898	1591	1536	1528	1664	1742	1574	1486	1333
12	1100	888	1013	1137	1249	1314	1296	1217	1307	1519
13	1689	1954	1883	1848	1762	1565	1530	1673	1382	1492
14	1539	1973	2121	2254	2256	2265	2271	2262	2298	1940
15	1894	1883	2013	1837	1704	1894	1916	1929	2004	1912
16	1861	1633	1662	1801	1861	1843	2022	1958	2141	2037
17	2130	2154	2044	1845	2039	1892	1801	1576	1360	1355
18	1666	1801	1576	1614	1748	1684	1748	1759	1539	1689
19	1730	1821	1737	1622	1684	1689	1751	1722	1819	1812
20	1658	1826	1709	1543	1607	1523	1437	1364	1250	1135
21	1078	963	929	1060	1519	1611	1779	1890	1775	1880
22	2333	2518	2291	2395	2273	2221	2015	1861	1892	1576
23	1598	1446	1415		1788		2183	2123	1954	

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 15- 7-1973
(DAY NO 196)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4	2799	2781	2710	2536	2382	2251	2796	2904	2999	2852
5	1969	1933	1929	1887	1775	1848	2243	2220	2159	2119
6	1644	1475	1415	1239	1004	1047	1890	1680	1669	1614
7	1539	1651	1762	1708	1912	2251	1150	1175	1230	1426
8	2258	2101	1982	1717	1667	1539	2287	2284	2318	2302
9	1378	1576	1594	1755	2062	2176	1494	1516	1340	1289
10	2584	2565	2602	2538	2415	2373	2326	2507	2390	2531
11	2183	2123	1969	1850	2415	2373	2397	2461	2265	2170
12	2571	2472	2390	2335	1786	1825	1898	2190	2536	2626
13	2009	1845	1625	1565	2313	2262	2101	2353	2269	2137
14	1278	1314	1153	978	1364	1121	993	1172	1133	1089
15	1548	1591	1585	1634	950	912	952	1194	1261	1340
16	1987	2070	2123	2216	1719	1929	1965	1998	2037	2079
17	2787	2788	2732	2768	2298	2401	2560	2633	2637	2664
18	2701	2589	2540	2664	2781	2807	2820	2814	2777	2668
19	1594	1912	1900	1841	2379	2083	1834	1726	1598	1662
20	2053	1995	2059	2053	1850	1876	2101	1876	1841	1934
21	1203	980	1002	1075	2004	1980	1991	1901	1629	1558
22	1382	1633	1574	1722	1164	1143	1175	1486	1669	1539
23	1587	1607	1790	1984	1523	1314	1393	1422	1472	1428
					2018	2090	2093	2236	2483	2439

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 16- 7-1973
(DAY NO 197)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2454	2483	2585	2551	2664	2746	2774	2911	2958	2991
1	2975	2867	2973	2931	2841	2781	2770	2657	2494	2026
2	1528	1371	1296	1192	1212	1196	1324	1558	1801	1700
3	1715	1614	1660	1655	1828	1958	2176	2256	2168	2176
4	2254	2476	2514	2657	2375	2554	2679	2426	2390	2668
5	2852	2980	3037	2757	2510	2251	2051	1962	2097	2307
6	2551	3002	2871			2973	2927	2777	2660	2600
7	2382	2362	2415	2728	2761	2604	2626	2633	2578	2607
8	2375	2499	2637	2397	2278	2137	1987	2221	2017	1837
9	2055	2243	2200	2148	2251	2137	2212	2240	2137	2335
10	2463	2468	2401	2291	2011	1629	1411	1303	1314	1113
11	1137	1038	1413	1715	1675	1453	1205	1329	1303	1221
12	1554	1698	1933	2362	2487	2478	2401	2362	2101	1920
13	1901	1929	1925	2048	2198	2106	2104	2011	2059	1826
14	1726	1755	1719	1633	1797	1801	1698	1602	1660	1651
15	1762	1658	1426	1435	1486	1532	1378	1452	1517	1265
16	1146	1097	1150	1335	1314	1591	1865	1912	2168	2309
17	2379	2514	2488	2454	2419	2412	2393	2359	2375	2430
18	2388	2251	1876	1751	1717	1759	1812	1869	1896	1876
19	1735	1622	1528	1300	1378	1442	1378	1344	1333	960
20	1313	1367	1228	1175	1018	952	918	881	843	888
21	1025	994	1122	1004	850	843	544	612	1075	1430
22	1666	1677	1708	1748	1768	1647	1737	1799	1841	1730
23	1912	1962	1779	1940	1969	2020	2083	2099	2099	2187

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRESDATE 17- 7-1973
(DAY NO 198)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2170	2189	2267	2273	2280	2287	2298	2198	2108	1933
1	1887	1876	1984	1925	2172	2134	2119	1969	1898	1869
2	1869	1861	1669	1490	1539	1594	1622	1647	1750	1823
3	1958	2114	2119	2119	2115	2139	2148	2148	2159	2119
4	2075	2088	2081	2097	1987	1920	1854	1894	2130	2163
5	2190	2062	1850	1762	1505	1598	1261	1194	1113	1172
6	1254	1172	1446	1322	1393	1516	1426	1461	1450	1726
7	1806	1887	1907	1901	1826	1689	1278	1018	866	705
8		735	813	885	1060	1239	1075	1437	1380	1272
9	1217	1068	960	747	1121	1239	1587	1567	1576	1633
10	1708	1494	1415	1366	1360	1232	936	850	1057	1064
11	1097	1143	1221	952	892	1089	1261	1397	1788	2015
12	2026	2037	2033	2033	2035	1916	1969	1995	1976	1876
13	1779	1755	1720	1689	1783	1386	1378	1221	1203	1139
14	1153	1347	1614	1708	1680	1762	1726	1618	1673	1706
15	1726	1704	1805	1872	1858	1651	2072	2145	2156	2147
16	2040	1936	1711	1801	1505	1300	1430	1362	1499	1580
17	1371	1669	1450	1501	1669	2066	2423	2664	2924	2938
18	2664	2415	2520	2223	2157	2062	1929	1751	1812	1887
19	1975	2040	2108	2154	1912	1730	1762	1731	1814	1759
20	1852	1823	1762	1826	1872	1858	1841	1768	1751	1726
21	1794	1845	1861	1883	1912	1887	1805	1607	1651	1684
22	1719	1837	1901	1803	1912	2073	2119	2205	2318	2498
23	2479	2582	2578	2476	2364	2291	2092	2157	2103	2114

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRESDATE 18- 7-1973
(DAY NO 199)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1666	1815	1834	1751	1951	2423	2415	2468	2593	2754
1	3055	2739	2607	2525	2359	2185	2044	1987	1916	1940
2	1922	1912	1865	1894	1865	1861	1837	1852	1951	1998
3	1909	2057	2240	2311	2426	2580	2721	2841	2891	2927
4	2999	3012	3041	3076	3079	3074	2913	2812	2637	2723
5	3001	2841	2454	2476	2510	2304	2194	2287	2284	2194
6	2229	2212	2205	2068	1965	1916	1987	2062	2097	2084
7	1998	1997	2002	1925	1898	1861	1894	2031	2037	2075
8	2072	2201	2280	2291	2324	2344	2558	2565	2618	2593
9	2785	2743	2697	2697	2734	2691	2540	2476	2615	2651
10	2487	2476	2701	2909	2713	2622	2450	2176	2112	2097
11	2046	1962	1790	1808	1845	1965	2170	2229	2355	2468
12	2532	2307	2018	1947	2044	1854	1826	1929	1951	1987
13	1890	1916	2070	2167	2554	2607	2589	2415	2243	2108
14	2066	1912	1962	2018	2104	2300	2382	2419	2490	2542
15	2540	2682	2726	2746	2871	2991	3015	3143	3156	3132
16	2905	2697	2461	2362	2439	2232		2101	2176	2198
17	2015	1883	1655	1704	1715	1651	1666	1861	1878	1944
18	1973	2004	1936	1965	2101	2128	2147	2137	2051	2044
19	1947	2108	2097	2062	2130	2216	2240	2176	2055	2799
20	2951	2871	2803	2938	2891	2633	2562	2693	2715	2715
21	2796	2649	2589	2362	2026	2101	2137	2198	1969	1779
22	1548	1135	1144	1044	985	1075	1239	1199	1296	1395
23	1623	1810	1751	1709	1741	1854	2247	2371	2494	2326

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRESDATE 19- 7-1973
(DAY NO 200)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2401	2457	2490	2565	2585	2439	2322	2304	2232	1998
1	1883	1755	1762	1821	1995	2112	1836	2216	2589	2746
2	2609	2690	2739	2746	2739	2642	2251	1876	1715	2033
3	2072	1876	1516	1336	1625	1894	1929	1953	1808	1850
4	1805	1614	1322	1300	1477	1666	2070	1883	1792	1912
5	2083	1922	1850	1689	1658	1719	1792	1837	1810	1726
6	1444	1439	1389	1254	1263	1360	1505	1697	1836	1901
7	1898	1858	1894	1783	1823	1876	1949	2048	2075	2068
8	2095	1971	1973	1903	1971	2088	2295	2302	2264	2201
9	2137	2201	2243	2284	2119	2086	2139	2145	2209	2256
10	2240	2214	2157	2126	2104	2029	2026	2086	2059	2137
11	2101	2201	2220	2232	2212	2176	2165	2134	2132	2141
12	2132	2121	2106	2037	2093	2141	2083	1938	1995	1876
13	2011	2040	1991	2209	2192	2251	2468	2461	2454	2448
14	2439	2329	2240	2101	2092	2123	2119	2178	2185	2179
15	2092	2112	2015	2008	2040	2011	1863	1779	1880	1863
16	1898	1887	1916	1949	1976	1998	2081	2079	2048	2066
17	2086	2092	2059	2083	2008	1997	1938	1823	1775	1693
18	1642	1554	1475	1611	1689	1715	1744	1817	1762	1709
19	1651		1708	1925	2039	2015	2090	2101	2104	2148
20	2168	2172	2176	2145	2101	1890	1741	1594	1594	1614
21	1481	1347	1580	1536	1762	1894	1912	1907	1905	1872
22	1856	1885	1883	1801	1739	1728	1722	1744	1693	1633
23	1755	1644	1843	1823	1830	1790	1741	1885	1916	1858

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 20-7-1973
(DAY NO 201)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1876	1880	1905	1925	1962	1976	1973	1900	1768	1574
1	1516	1536	1591	1614	1569	1545	1591	1539	1744	1969
2	2090	2260	2388	2578	2629	2582	2379	2350	2476	2439
3	2359	2265	2130	2115	2112	1887	1775	1651	1772	1748
4	1854	1797	1614	1433	1314	1097	1289	1644	1720	1508
5	1876	1969	2048	2051	1931	1715	1922	2075	2167	2326
6		2424	2304	2004	1870	1499	1351	1212	1272	1062
7	1161	1216	1375	1556	1633	1700	1783	1726	1907	1995
8	2083	2083	2106	2099	2168	2156	2176	2189	2183	2181
9	2170	2147	2115	2044	1755	1258	625	799	965	1068
10	1183	1250	1347	1210	1132	1011	998	1027	1024	1066
11	1089	1124	1100	1097	1104	1000	963	958	965	982
12	1011	1035	1046	1057	1121	1121	1115	1108	1100	1080
13	1152	1088	1009	956	888	791	766	662	605	587
14	585	592	700	943	1089	1000	1031	941	956	967
15	1464	1885	2101	2267	2331	2366	2399	2445	2423	2426
16	2435	2424	2415	2417	2423	2410	2412	2428	2459	2439
17	2351	2543	2540	2556	2560	2569	2563	2565	2569	2576
18	2578	2580	2578	2578	2576	2574	2585	2600	2606	2618
19	2626	2644	2653	2670	2677	2712	2728	2728	2768	2783
20	2785	2787	2790	2792	2774	2761	2754	2712	2717	2697
21	2618	2536	2585	2562	2617	2759	2834	2924	3015	3023
22	3044	3048	3090	3151	3183	3198	3169	3161	3172	3193
23	3226	3189	3191	3209	3215	3211	3257	3258	3262	3268

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 21-7-1973
(DAY NO 202)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3271	3277	3277	3279	3271	3282	3286	3291	3295	3300
1	3308	3311	3311	3317	3313	3313	3313	3319	3321	3319
2	3321	3324	3328	3335	3339	3332	3328	3330	3339	3332
3	3339	3311	3275	3103	2991	2971	3242	3381	3372	3374
4	3396	3403	3383	3421	3438	3456	3460	3461	3471	3472
5	3467	3476	3478	3478	3478	3480	3478	3478	3478	3478
6	3478	3478	3476	3474	3472	3472	3472	3471	3469	3467
7	3465	3463	3454	3454	3452	3438	3385	3343	3306	3176
8	3204	3204	3185	3183	3185	3189	2874	2657	2540	2476
9	2529	2607	2710	2902	3068	3072	3074	3072	3068	3061
10	3037	3024	3023	3019	3019	3032	2958	2955	2922	2878
11	2865	2860	2849	2847	2843	2825	2821	2796	2765	2787
12	2798	2792	2785	2785	2774	2770	2781	2774	2763	2757
13	2752	2739	2732	2735	2728	2724	2675	2582	2549	2507
14	2514	2392	2083	1737	1442	1658	2154	2463	2426	2415
15	2307	2320	2262	2026	1783	1453	1382	1457	1457	1594
16	1614	1680	1801	1901	1965	2059	2112	2145	2172	2221
17	2269	2324	2329	2406	2415	2476	2492	2488	2492	2488
18	2472	2452	2457	2443	2375	2386	2371	2359	2351	2313
19	2328	2324	2320	2318	2311	2306	2295	2291	2298	2300
20	2291	2295	2287	2275	2287	2302	2295	2291	2300	2307
21	2318	2317	2324	2346	2351	2381	2355	2357	2344	2335
22	2339	2300	2276	2254	2304	2264	2258	2287	2339	2350
23	2236	1958	1741	1492	1730	2126	2273	2302	2329	2382

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
DEPTH IN CORRECTED METRES

DATE 22-7-1973
(DAY NO 203)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2408	2446	2457	2457	2459	2461	2408	2362	2351	2339
1	2331			2291	2284	2269	2269	2262	2256	2251
2	2245	2232	2212	2070	1881	1505	1585	1302	1042	1004
3	1172	1647	2092	2154	2205	2243	2276	2307	2313	2318
4	2329	2340	2348	2353	2359	2359	2359	2355	2351	2351
5	2360	2362	2346	2337	2326	2315	2307	2291	2291	2291
6	2315	2315	2298	2307	2287	2280	2304	2280	2264	2251
7	2234	2216	2145	2055	1984	1898	1530	1519	1477	1516
8	1373	1186	1004	863	667	693	422			
9	757					744				
10	649					704				
11	566					473				
12	596					563				
13	627	563	663	523	855	1265	1629	2008	2232	2258
14	2247	2258	2269	2293	2326	2355	2384	2395	2401	2408
15	2397	2401	2404	2355	2379	1925	978	1433	2229	2461
16	2529	2567	2587	2606	2626	2644	2666	2675	2682	2693
17	2677	2677	2582	2483	2560	2589	2503	2465	2540	2510
18	2351	2295	2403	2494	2529	2554	2624	2640	2670	2732
19	2668	2980	3328	3663	3663	3663	3663	3663	3341	3116
20	2891	2697	2520	2532	2518	2494	2419	2403	2362	2390
21	2476	2494	2478	2549	2569	2604	2554	2675	2688	2682
22	2681	2675	2664	2649	2622	2627	2615	2607	2560	2551
23	2540	2481	2498	2501	2503	2540	2578	2585	2598	2620

RRS DISCOVERY CRUISE NUMBER 54 LEG 1
 DEPTH IN CORRECTED METRES

DATE 23- 7-1973
 (DAY NO 204)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2622	2501	2690	2688	2693	2701	2701	2699	2690	2461
1	2377	2388	2390	2386	2353	2408	2434	2450	2456	2498
2	2675	2887	3207	3438	3644	3652	3657	3652	3659	3663
3	3663	3664	3659	3624	2673	2543	2353	2371	2399	2399
4	2353	2516	2600	2622	2664	2664	2659	2682	2660	2657
5	2629	2715	2688	2529	2264	2509	2514	2487	2329	2359
6	2397	2326	2062	2355	2430	2456	2456	2218	1951	2194
7	2384	2408	2408	2371	2346	2313	2271	2070	1826	1640
8	1446	1250				693				
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 26- 7-1973
(DAY NO 207)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11				318	627	605	588	598	581	608
12	616	341	753	1150	1411	1790	2086	2234	2258	2251
13	2249	2243	2265	2306	2337	2362	2375	2384	2393	2388
14	2351	2313	2318	2280	2304	2037	1232	724	1673	2137
15	2280	2430	2410	2223	2507	2574	2604	2622	2646	2653
16	2653	2653	2651	2660	2657	2618	2525	2461	2468	2481
17	2509	2490	2461	2423	2329	2406	2682	2682	2660	2653
18	2633	2622	2604	2529	2494	2479	2467	2459	2318	2216
19	2156	2059	1965	1874	1748	1543	1554	1468	1506	1689
20	1940	2165	2256	2317	2408	2520	2565	2640	2551	2739
21	2825	2825	2927	3467	3500	3491	3487	3485	3485	3476
22	3454	3381	3193	3136	3101	2951	2938	2927	2913	2938
23	3286	3321	3344	3344	3332	3313	3260	3215	3169	3132

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 27- 7-1973
(DAY NO 208)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2977	2825	2717	2593	2529	2390	2439	2873	2964	3165
1	3222	3257	3271	3286	3226	3328	3313	3414	3268	3427
2	3458	3412	3125	3163	3205	3242	3465	3438	3438	3438
3	3450	3471	3476	3454	3476	3480	3469	3423	3425	3416
4	3414	3399	3386	3388	3385	3381	3377	3381	3374	3366
5	3348	3355	3302	3264	3271	3097	2977	2971	3063	3097
6	3097	3026	2969	2783	2732	2600	2856	2909	2893	2884
7	2937	2927	2916	2909	2902	2894	2894	2891	2882	2874
8	2862	2856	2851	2860	2713	2607	2732	2752	2708	2691
9	2439	2600	2671	2677	2662	2673	2668	2690	2686	2704
10	2684	2679	2675	2662	2657	2681	2686	2686	2677	2660
11	2646	2640	2635	2626	2615	2611	2591	2584	2582	2558
12	2560	2529	2479	2459	2434	2371	2379	2370	2295	2183
13	2229	2205	2154	2037	1958	1898	1843	1779	1684	1497
14	1446	1592	1572	1552	1547	1433	1622	1572	1574	1558
15	1563	1408	1452	1463	1333	1656	1622	1591	1494	1196
16	753	881	978	899	828	1095	974	982	969	879
17	855	1011	1252	1174	1677	1325	1689	1232	1097	1164
18	1554	1656	1887	1737	1713	1841	1744	1669	1677	1680
19	1680	1680	1680	1680	1680	1812	1872	2093	2123	2251
20	2307	2540	2690	2777	2814		2642	2514	2344	2318
21	2757	2761	2796	2701	2518		2701	2777	2860	
22	2423	2589	2668	2633	2757					
23		2973	3041	3141	3154	3129	2860	2589	2176	1614

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 28- 7-1973
(DAY NO 209)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1135	1783	2344	2664	2885	3037	3101	3136	3119	3037
1	2962	2796	2781	2757	2585	2668	2558	2472	2390	2382
2	2406	2596	2686	2510	2675	2770	2646	2761	2807	2838
3	2863	2746	2728	2494	2318	2068	2419	2750	2787	2863
4	2980		2856	2788	2781	2682				
5										
6										
7	2785	2739	2607	2558	2518	2514	2635	2728	2761	2770
8	2450	2558	2574	2701			2446	2359	2371	2366
9								2863		
10										
11										
12	2653									
13						3083				
14	3048					3169				
15	3154				3161					
16	3158									
17	3172	2991	2977	2966	2962	2964	2964	3161	2894	2878
18	2871	2796	2682	2757	2796	2860	2951	2973	3154	2973
19	2924	2882	2728	2671	2554	2589	2589	2554	2498	2366
20										
21										
22										
23									2269	2434

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 29- 7-1973
(DAY NO 210)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2606	2777	2686			2746				
1					2812	2805	2664	2536	2562	2521
2	2426	2382	2430	2476	2589	2682	2510	2604	2785	2701
3	2838	2796	2763	2935	2807	2757	2558	2223	1984	2183
4	2514	2777	2834	2927	2902	2858	2885	2774	2768	2757
5	2686	2574	2565	2611	2574	2540	2439	2488	2551	2476
6	2554	2858								
7										
8										
9										
10										
11		2814	2713	2664	2582	2671	2593	2419	2315	2229
12	2176	2141	2269	2507	2251	1751	1976	1951	1958	1947
13	1965	1940	1912	1887	1872	1883	1936	1984	2083	
14	2401			2439		2355				2176
15		2172			2093				2059	
16	2112		2269	2269	2251	2262	2318	2404	2419	2423
17	2439	2439	2456		2457		2362		2251	
18	1951	1912	1936	1797	1944	1969	2141			
19	2168	2148	2355	2514	2315	2062	1719	1744	1826	
20								1865	1872	1912
21	1936	1954	1933	2059	2276	2439	2679	2841	2902	2969
22	3112	2909	2675	2565	2574	2562	2596		2627	
23	2657		2655		2646		2646		2659	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 30- 7-1973
(DAY NO 211)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2690		2803		2920					
1			3151							
2										
3	2991				2905		2882		2834	
4	2849		2841		2847		2792		2565	
5	2514	2351	2287	2291	2298	2287	2253	1987	1965	1960
6	1956	1951	1951	1933	1801	1711	1750	1673	1660	1464
7	1591	1501	1638	1684	1539	1519	1519		1519	1552
8	1640	1786	2176	2375	2642	2717	2796	2849	2739	2724
9	2593	2201	2337	2176	1929	1987	1962	2062	1790	1850
10	2073	1976	1883	1845	1801	1651	1603	1645	1797	1823
11	1805	1810	1737		1786		1762		1969	
12	1876		2022		1965		2212		2355	
13	2212		2079		2090		2092		1980	
14	2062		1953		2075		2092		2187	
15	1973		1969		1933		1931		1830	
16	1790		1719		1733		1713		1684	
17	1618		1479		1572		1594		1501	1558
18	1558		1684		1594		1536		1468	
19	1576		1677		1837		2083		2382	
20	2355		2510				2821		2679	
21	2540		2273		2108		1876		1812	
22	1812		2223	2362	2419	2777	2569	2198	2216	2033
23	1792	1662				1422				

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 31- 7-1973
(DAY NO 212)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1561					1486				
1	1609					1885				
2	2190					1887				
3	1995					1998				
4	2039					2059				2090
5	2194	2090	1984	1806	1911	1591	1772	2101	2326	2558
6	2682	2569	2618	2562	2525	2540	2598	2604	2589	2582
7	2569								2362	
8								2392		
9										
10							2439			
11										
12										
13						2340				
14	2326									
15	2618					2825	2841	2860	2980	2761
16	2646	2465	2532	2593	2615		2529		2585	2582
17	2578	2576	2574	2571	2574		2578		2582	
18	2547		2496		2461		2419		2375	
19	2333		2311		2205		2097		2070	
20	2083					1876	2044	2232	2362	2626
21	2743	2796	2920	2814	2820	2715	2576	2476	2287	2108
22	2086	1920	1850	1808	1826	1971	2026	2183		
23				2265	2498	2598	2128	2088	1876	1834

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 1- 8-1973
(DAY NO 213)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1662	1292	1121	1068	1355	1345	1395	1457	1501	1292
1	1369	1488	1658			1784				
2	1797	1751	1645	1636	1644	1693	1724	1741	1733	1547
3	1607	1442	1726	1731	1709	1658	1715	1772	1722	1658
4	1673	1719	1689	1684	1497	1395	1347	1484	1622	1700
5	1666	1508	1719	1739	1709	1717	1693	1655	1547	1550
6	1591	1598	1602	1607	1594	1620	1662	1684	1719	1730
7	1817	1869	1830	1927	1987	1991	2006	1929	1905	1861
8	1819		2028		1997		1971		1986	
9	1841		1720		1801		1808		1762	
10	1722		1741		1614		1501		1430	
11	1322		1367		1461					
12									1572	1583
13	1686	1607	1704			1629	1640	1741	1700	1349
14	1355	1483	1519	1322	1367	1121	971	1214	1532	1819
15	1969	1980	2083	2176	2660	2494	2375	2337	2386	2419
16	2375	2481	2529	2424	2326	2379	2382	2348	2362	2479
17	2527	2337	2501	2487	2529	2203	1823	1684	1812	1954
18	2059	2062	1995	2026	2022	1898	1894	1905	1890	1883
19	1920	1920	1845	1850	1867	1894	1967	2073	2251	2397
20	2498	2617	2648		2664		2693		2724	
21	2739		2770		2781		2788		2798	
22	2801		2801		2809		2809		2818	
23	2841	2807	2798	2772	2770	2723	2514	2604	2538	2527

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 2- 8-1973
(DAY NO 214)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	2510	2496	2509	2538	2562	2620	2668	2691	2693	2704
1	2713	2693	2701	2719	2748	2798	2807	2798	2787	2814
2	2865	2885	2891	2723	2765	2838	2858	2820	2803	2748
3	2693	2234	2439	2565	2560	2357	2137	2430	2408	2746
4	2900	2860	2664	2660	2596	2668	2701	2781	2821	2838
5	2746	2838	2860	2898	2913	2927	2937	2946	2960	2979
6	2964	2931	2882	3101	3130	3154	3158	3140	3116	2935
7	3023	2929	2812	2796	2852	2991	2942	3026	3189	3182
8	3147	3227	3216	3163	2913	2962	3275	3321	3337	3339
9	3324	3343	3333	3116	3130	3130	3161	3176	3271	3359
10	3348	3348	3291	3416	3419	3483	3496	3536	3549	3582
11	3582	3577	3533	3529	3586	3584	3591	3553	3355	3454
12	3441	3461	3397	3439	3439	3434	3363	3180	3328	3456
13	3476	3503	3503	3503	3397	3352	3418	3419	2962	3002
14	3033	2991	3079	3094	3092	3041	2706	2746	2902	3052
15	3052	3048	3072	3072	3057	3057		3054		3065
16		3059	3059	3059	3061	3061		3076		3094
17		3105	3105	3105	3076	3076		3063	3061	3059
18	2973	2920	2757	2726	2719	2893	2935	2909	3015	3044
19	3012	2958	2777	2728	2774	2902	3169	3300	3322	3335
20	3306	3260	3151	3520	3549		3558		3538	
21	3551		3547		3518	3482	3480	3370	3520	3564
22	3584		3588		3597		3599		3599	
23	3588	3491	3268	2913	2551	2457	2137	2721	3328	3630

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 3- 8-1973
(DAY NO 215)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3674	3685	3705	3703	3525	3438	3615	3674	3741	3739
1	3703	3511	2986	3052	3359	3366	3401	3423	3461	3600
2	3482	3344	2799	2856	3021	3419	3818	3785	3613	3450
3	3306	3264	3182	3344	3761	3986	4003	4025	4032	4034
4	4036	4036	4032	4025	4017	4010	3995	3990	3986	3981
5	3972	3966	3959	3950	3933	3928	3922	3792	3631	3522
6	3503	3487	3474	3458	3485	3503	3344	3079	2871	2799
7	2651	2538	2507	2452	2415	2284	2205	2185	2083	1812
8	1554	1340	1122	850	782					
9	844					1100				
10	1426					1751				
11	1563					2231		1912		
12	2057	2070	2106	2167	2198	2231	2278	2302	2337	2381
13	2415	2435	2456	2472	2474	2487	2499	2523	2525	2534
14	2571	2681	2756	2915	2904	2761	2291	2333	2176	2108
15	2262	2373	2415	2366	2498	2571	2774	2856	3030	3185
16	3546	3633	3686	3712	3714	3712	3710	3710	3710	3701
17	3675	3661	3655	3663	3674	3679	3683	3681	3675	3666
18	3644	3633	3619	3602	3586	3562	3531	3500	3478	3458
19	3443	3429	3407	3397	3359	3344	3341	3339	3352	3344
20	3355	3368	3401	3407	3434	3421		3463		3480
21	3496		3535		3557		3602		3551	
22	3602		3637		3690		3714	3675	3588	3714
23	3838	3884	4030	4120	4125	4136	4149	4166	4178	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 4- 8-1973
(DAY NO 216)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4200	4195	4213	4209	4087	4070	4048	4122	4140	4153
1	4251	4239	4213	4206	4187	4173	4169	3931	3827	3763
2	3851	3866	3968	4048	4125	4142	4158	3966	3973	3915
3	3880	3893	3922	3946	4160	4209	4297	4392	4418	4433
4	4440	4443	4416	4401	4354	4328	4319	4315	4319	4361
5	4314	4297	4303	4317	4277	4246	4251	4288	4423	4412
6	4425	4423	4447	4475	4469	4482	4491	4497	4497	4484
7	4486	4478	4473	4454	4442	4458	4464	4476	4489	4460
8	4436	4433	4456	4460	4454	4443	4440	4454	4458	4440
9	4445	4400	4376	4347	4381	4284	4394	4389	4345	4326
10	4398	4462	4458	4462	4471	4465	4336	4248	4339	4363
11	4363	4303	4297	4290	4266	4100	4028	4065	4160	4072
12	4027	4087	4204	4228	4239	4262	4283	4319	4326	4314
13	4325	4310	4304	4308	4339	4304	4306	4306	4323	4317
14	4301	4315	4317	4304	4306	4279	4268	4248	4224	4202
15	4187	4191	4184	4156	4138	4125	4144	4081	3942	3824
16	3873	3869	3952	3990	3988	3937	3992	4041	3983	4069
17	4045	4070	4078	4083	4083	4076	4037	4030	4027	4023
18	4014	3988	3961	3964	3973	3900	3831	3845	3681	3589
19	3536	3535	3558	3518	3489	3379	3337		3670	3648
20	3650	3641	3615	3611	3604	3586	3591	3650	3686	3672
21	3549	3573	3500	3621	3644	3641	3712	3770	3813	3893
22	3902	3911	3866	3884	3981	4030	4034	4052	3950	4008
23	4072	4087	4083	4027	4045	4014	3999	4017	4014	4034

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 5- 8-1973
(DAY NO 217)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3946	3899	3866	3825	3805	3780	3767	3743	3730	3739
1	3728	3736	3706	3730	3708	3714	3706	3732	3743	3717
2	3716	3736	3756	3767	3796	3834	3884	3952	3973	4072
3	4101	4160	4198	4224	4283	4314	4352	4367	4398	4425
4	4454	4498	4528	4591	4590	4623	4672	4692	4700	4712
5	4740	4758	4791	4806	4815	4822	4833	4828	4837	4846
6	4837	4659	4531	4632	4701	4809	4806	4824	4820	4828
7	4871	4937	4945	4943	4917	4778	4720	4321	4122	4262
8	4440	4608	4601	4608	4617	4857	4877	4888	4904	4731
9	4628	4520	4372	4367	4367	4617	4732	4782	4930	4945
10	4963	4987	4996	5018	5038	5071	5087	5104	5113	5116
11	5107	5043	5069	5071	5045	4934	4893	4705	4604	4610
12	4707	4723	4720	4707	4740	4811	4879	5021	5074	5080
13	5078	5080	5102	5107	5106	5100	5109	5113	5104	5100
14	5071	5029	5001	4994	5001	4999	5016	5034	5045	5047
15	5056	5073	5062	5049	5052	5087	5042	5018	4990	5005
16	5010	5007	5003	5043	5060	5076	5043	5007	5014	5003
17	5029	5058	5087	5135	5173	5170	5157	5122	4963	4828
18	4721	4681	4712	4731	4749	4776	4937	5111	5204	5223
19	5265	5266	5257	5217	5208	5232	5246	5270	5281	5288
20	5146	5080	5235	5235	5292	5292	5274	5219	5170	5129
21	5138	5138	5131	5131	5100	5096	5104	5096	5111	5104
22	5038	4956	4782	4712	4486	4500	4625	4879	4956	4945
23	4937	4937	4948	4956	4963	4948	4945	4950	4968	4928

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 6- 8-1973
(DAY NO 218)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4877	4736	4670	4443	4478	4462	4566	4774	4736	4617
1	4440	4337	4570	4639	4531	4637	4636	4604	4590	4601
2	4593	4590	4593	4592	4531	4509	4489	4487	4398	4290
3	4180	4209	4239	4275	4372	4343	4332	4332	4251	4273
4	4237	4195	4164	4027	4001	3880	3767	3557	3425	3445
5	3348	3300	3224	3249	3295	3288	3258	3255	3249	3273
6	3386	3540	3536	3566	3577	3721	3694	3599	3421	3493
7	3602	3840	3831	3725	3760	3999	4085	4125	4087	3984
8	4103	4167	4343	4573	4956	5277	5305	5219	5204	5208
9	5175	4956	4956	4948	4976	5018	5170	5201	5146	4994
10	4859	4809	4678	4628	4636	4709	4798	4840	4807	4774
11	4681	4559	4674	4674	4667	4559	4548	4531	4531	4551
12	4520	4561	4528	4493	4515	4475	4454	4471	4486	4513
13	4504	4489	4497	4489	4478	4451	4425	4418	4443	4475
14	4480	4416	4422	4381	4326	4314	4283	4262	4248	4222
15	4319	4328	4383	4270	4370	4387	4378	4401	4460	4535
16	4582	4551	4572	4561	4517	4500	4520	4529	4539	4551
17	4568	4606	4636	4639	4608	4566	4462	4522	4551	4608
18	4654	4685	4694	4720	4771	4815	4837	4862	4913	4952
19	4963	5016	5060	5111	5131	5124	5144	5138	5146	5149
20	5160	5179	5168	5133	5107	5091	5078	5111	5133	5135
21	5007	4771	4628	4528	4520	4544	4531	4548	4537	4528
22	4562	4619	4646	4646	4846	4840	4815	5025	4723	4628
23	4636	4674	4663	4645	4590	4475	4520	4667	4701	4705

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 7- 8-1973
(DAY NO 219)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4600	4667	4646	4693	4451	4498	4487	4513	4528	4555
1	4557	4517	4412	4407	4259	4202	4171	4178	4178	4202
2	4297	4356	4405	4458	4416	4504	4500	4614	4573	4544
3	4491	4515	4531	4551	4573	4636	4694	4806	4813	4820
4	4833	4851	4903	4903	4824	4785	4839	4855	4835	4813
5	4959	4956	4709	4817	4899	4903	4846	4789	4743	4776
6	4646		4513	4493	4497	4401	4370	4405	4524	4566
7	4617	4645	4678	4681	4678	4701	4709	4716	4707	4678
8	4645	4685	4694	4696	4707	4690	4698	4650	4592	4559
9	4522	4504	4469	4409	4398	4347	4295	4215	4169	4109
10	4111	4045	4019	3944	3909	3855	3840	3833	3818	3802
11	3785	3739	3723	3706	3672	3622	3613	3553	3542	3536
12	3500	3489	3493	3429	3401	3368	3326	3258	3238	3191
13	3213	3136	3132	3085	3092	3046	3026	3030	2982	2923
14	2979	2962	2969	2966	2948	2915	2933	2929	2909	2849
15	2748	2626	2512	2445	2397	2467	2465	2419	2382	2353
16	2346	2331	2324	2307	2280	2262	2232	2190	2190	2112
17	2050	1942	1870	1803	1812	1799	1757	1677	1642	1607
18	1561	1552	1554	1556	1547	1536	1510	1516	1503	1488
19	1481	1484	1512	1492	1492	1490	1488	1492	1492	1495
20	1409	1505	1534	1545	1583	1613	1686	1711	1737	1806
21	1832	1815	1916	1951	2042	2095	2123	2183	2227	2333
22	2342	2353	2339	2291	2207	2159	2209	2141	2084	1987
23	1995	1909	1852	1845	1870	1878	1898	1923	1907	1949

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 8- 8-1973
(DAY NO 220)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	1991	1980	1978	1940	1991	2059	2079	2031	1978	1954
1	1942	1903	1863	1841	1803	1777	1697	1687	1662	1607
2	1616	1576	1552	1556	1548	1528	1517	1521	1529	1543
3	1559	1605	1627	1667	1922	2141	2317	2463	2551	2640
4	2677	2724	2788	2869	2916	2937	2948	2966	2982	3008
5	3023	3032	3026	3004	2995	2898	2788	2691	2713	2739
6	2754	2765	2796	2734	2766	2862	2948	2955	2979	2995
7	3004	3004	3010	3019	3050	3055	3045	3039	3035	3055
8	3030	3026	3024	3019	3023	3023	3058	2979	2953	2944
9	2940	2922	2867	2752	2710	2699	2704	2668	2686	2668
10	2567	2510	2445	2523	2448	2476	2474	2461	2512	2609
11	2653	2710	2827	2845	2823	2809	2812	2809	2768	2770
12	2776	2776	2779	2798	2845	2834	2790	2794	2814	2818
13	2818	2849	2865	2873	2878	2887	2875	2847	2873	2852
14	2816	2841	2816	2788	2745	2712	2664	2657	2660	2666
15	2675	2688	2697	2715	2721	2765	2783	2858	2852	2898
16	2940	2986	3079	3147	3196	3264	3288	3333	3414	3456
17	3518	3573	3577	3553	3577	3602	3597	3604	3611	3610
18	3611	3637	3626	3637	3644	3644	3752	3803	3831	3833
19	3825	3833	3880	3900	3928	3948	3975	3953	3911	3875
20	3866	3878	3839	3893	3895	3895	3899	4118	4125	4133
21	4136	4091	4043	4017	4034	4039	4034	4030	4032	4025
22	4006	3997	4003	3986	3972	3963	3959	3944	3946	3952
23	3930	3873	3858	3851	3867	3875	3871	3877	3877	3875

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 9- 8-1973
(DAY NO 221)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3860	3834	3820	3803	3778	3765	3767	3785	3792	3787
1	3778	3765	3734	3602	3672	3641	3611	3553	3577	3584
2	3599	3595	3611	3622	3626	3622	3622	3641	3641	3635
3	3617	3575	3549	3546	3524	3493	3474	3458	3432	3414
4	3414	3335	3288	3277	3394	3348	3379	3386	3394	3348
5	3322	3326	3319	3337	3295	3322	3311	3269	3244	3262
6	3152	3132	3110	3092	3103	3083	3134	3169	3227	2951
7	2770	2470	2189	1724	1177	709	654	786	786	941
8	1271					1580		1702		1883
9		1691		1329		854				
10	978					1057				
11	1214	1053	779	585	844	912	1477	1773	1896	1911
12	1863	1762	1356	1450	1188	1148	824	806	742	715
13	1071	1157	2088	2543	2551	2781	2986	3081	3136	3202
14	3235	3231	3355	3410	3436	3452	3480	3493	3514	3531
15	3538	3535	3524	3454	3507	3566	3577	3513	3641	3690
16	3725	3765	3785	3796	3803	3813	3824	3833	3845	3862
17	3871	3884	3889	3893	3891	3895	3906	3908	3911	3911
18	3889	3900	3941	4001	4016	4027	3981	3930	3957	3984
19	4056	4059	4056	4056	4017	4059	4116	4122	4120	4118
20	4120	4122	4127	4129	4129	4129	4114	4116	4111	4080
21	4107	4098	4076	4010	3957	3900	3829	3752	3696	3630
22	3599	3562	3553	3507	3496	3527	3531	3513	3531	3553
23	3591	3595	3578	3591	3611	3621	3628	3639	3644	3652

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 10- 8-1973
(DAY NO 222)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	3655	3661	3670	3679	3685	3688	3655	3615	3553	3493
1	2944	2922	3299	3293	3167	3065	2496	2137	2073	2009
2	1969	1890	2048	2176	2745	1759	3595	3580	3840	3964
3	4122	4270	4306	4328	4319	4339	4356	4363	4372	4376
4	4389	4394	4409	4403	4405	4412	4416	4436	4449	4458
5	4471	4469	4480	4482	4478	4500	4518	4520	4531	4531
6	4586	4601	4621	4637	4648	4667	4681	4678	4694	4698
7	4692	4694	4674	4670	4667	4659	4641	4588	4570	4544
8	4537	4533	4537	4537	4537	4537	4537	4513	4498	4471
9	4471	4464	4445	4427	4403	4372	4259	4262	4244	4231
10	4228	4204	4169	4122	4050	4032	3952	3792	3763	3714
11	3397	3348	3348	2894	2521	2254	2115	1713	1342	952
12	810	760	561	426	226	230	237	245	245	267
13	294	290	318	411	519	625	788	941	956	1007
14	905	950	982	1014	1014	1225	1395	1616	1741	1898
15	2220	2009	2209	2159	2223	2322	2371	2456	2521	2503
16	2300	2139	1993	2022	2081	2112	2123	2123	2143	2152
17	2238	2295	2291	2510	2699	2885	3169	3346	3569	3754
18	3866	3964	4037	4096	4184	4255	4279	4294	4304	4328
19	4339	4339	4374	4403	4409	4385	4462	4460	4374	4308
20	4319	4341	4369	4359	4348	4332	4356	4392	4423	4434
21	4471	4520	4559	4584	4621	4572	4572	4575	4570	4561
22	4515	4487	4478	4458	4449	4449	4465	4537	4559	4608
23	4604	4566	4478	4454	4425	4411	4464	4456	4469	4480

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 11- 8-1973
(DAY NO 223)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4693	4443	4389	4343	4301	4268	4211	4133	4118	4096
1	4078	4061	4019	4027	3986	3944	3926	3889	3893	3877
2	3858	3813	3787	3776	3785	3820	3851	3855	3845	3818
3	3858	3930	3964	3994	4032	4070	4076	4092	4118	4164
4	4224	4284	4336	4356	4394	4414	4443	4513	4539	4537
5	4551	4555	4562	4608	4639	4657	4667	4674	4683	4690
6	4694	4694	4694	4696	4696	4696	4696	4696	4694	4667
7	4753	4793	4820	4831	4833	4837	4839	4840	4840	4840
8	4842	4842	4842	4842	4840	4838	4838	4837	4837	4678
9	4833	4833	4833	4833	4828	4828	4820	4820	4820	4678
10	4531	4401	4270	4111	4017	4019	4034	3904	3820	3664
11	3643	3372	3344	3377	3456	3469	3493	3513	3533	3525
12	3566	3602	3648	3703	3712	3690	3646	3670	3717	3862
13	3994	4134	4270	4308	4321	4005	3930	3968	4224	4824
14	4935	5023	5058	5084	5084	5166	5301	5383	5493	5508
15	5512	5510	5446	5360	5259	5184	5073	5034	4570	4420
16	4182	3992	3833	3745	3747	3781	3760	3787	3845	4008
17	4178	4219	4239	4262	4246	3983	3489	3246	3099	3008
18	2991	3041	3039	3141	3238	3493	3538	3686	3802	3902
19	3862	4094	4339	4685	4764	4987	5290	5314	5316	5318
20	5318	5318	5318	5318	5319	5319	5321	5321	5321	5318
21	5323	5323	5323	5323	5321	5321	5319	5319	5316	5305
22	5314	5314	5309	5309	5307	5307	5307	5307	5305	5305
23	5305	5305	5305	5305	5305	5305	5305	5305	5305	5305

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 12- 8-1973
(DAY NO 224)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	5305		5305		5307		5309		5310	
1	5314		5314		5314		5314		5314	
2	5316		5316		5316		5316		5321	
3	5321		5325	5298	5255	5215	5201	5177	5162	5135
4	5113	5100	5078	5069	5052	5029	5010	5005	4990	4979
5	4946	4941	4899	4859	4809	4767	4720	4679	4639	4597
6	4562	4522	4489	4460	4440	4436	4443	4416	4486	
7	4454	4244	4050	4045	4014	3880	3789	3732	3745	3789
8	3836	3886	3908	3908	3902	3957	4153	4191	4144	3975
9	3847	3816	3633	3474	3374	3333	3355	3246	3244	3132
10	2990	2926	2816	2604	2481	2468	2392	2331	2265	2194
11	2137	2112	2104	2110	2095	2104	2090	2066	2024	1976
12	1925	1870	1808	1739	1673	1618	1518	1185	1207	1428
13	1490	1481	1503	1525	1503	1453	1585	1581	1581	1600
14	1634	1656	1673	1689	1687	1687	1680	1678	1686	1711
15	1755	1795	1830	1954	2039	2130	2157	2212	2262	2317
16	2371	2415	2445	2465	2479	2509	2540	2620	2695	2734
17	2809	2889	3015	3196	3386	3672	3756	3862	3917	3919
18	3948	3981	4043	4122	4142	4176	4292	4392	4400	4464
19	4628	4833	4946	4948	4921	4903	4913	4937	4948	4957
20	4985	5016	5020	4979	4957	4943	4937	4930	4923	4915
21	4857	4815	4826	4840	4879		4867		4965	
22	4965		4963		4961		4961		4961	
23	4957		4957		4957		4956		4954	

RRS DISCOVERY CRUISE NUMBER 54 LEG 2
DEPTH IN CORRECTED METRES

DATE 13- 8-1973
(DAY NO 225)

HOURS	00	06	12	18	MINUTES 24	30	36	42	48	54
0	4954		4954		4957		4965		4961	
1	4954	4952	4952		4948		4948		4948	
2	4939	4928	4879	4915	4923	4921	4919	4919	4919	4919
3	4917		4921		4915		4915		4915	
4	4915	4915	4913	4913	4910	4910	4910	4910	4910	4910
5	4910	4906		4493	4904	4910	4908	4910	4906	4906
6	4899	4778	4709	4866	4875	4877	4879	4884	4884	4884
7	4882	4882	4892	4879	4879	4877	4875	4833	4835	4846
8	4712	4736	4767	4804	4860	4871	4877		4875	
9	4871		4864		4860		4859		4857	
10	4855		4853		4851		4849		4844	
11	4844		4840				5029		5025	
12	4829		4822		4820		4813		4809	
13	4804		4798		4791		4785		4778	
14	4773		4764		4756		4747		4732	
15	4720		4703		4687		4665		4643	
16	4566	4539	4497	4440	4436	4400	4372	4352	4301	4198
17	4155	4160	4224	4294	4339	4403	4409	4405	4356	4350
18	4414	4389	4257	4228	4187	4151	4129	4209	4297	4266
19	4246	4208	4153	4087	3909	3924	3705	3681	3344	2927
20	2461	2004	1490	1239	1501	1139	1020	918	755	641
21	630	466	433	431	427	310	274	256	241	197
22	204	199	199							
23										

SECTION E

TABLE I

DANBUOY POSITIONS

D/B	Laid	Recovered	Lat. N	Long. W	Remarks
-	1540/184	0418/185	51°20'	14°07'	Passive reflector.
1	1840/208	2015/209	36°45'	33°14'	Radar transponder. Adrift when recovered.
2	2330/209	1851/210	36°44'	33°16'	Radar transponder. Adrift when recovered.
3	2030/210	2302/212	36°46'	33°11'	Radar transponder. Adrift when recovered.
4	0145/213	1330/213	36°52'	33°35'	Radar transponder.

TABLE II STATION LIST

Stn. No.	Tyne	Equipment Used	Date	Time(Z)/Day No.		Lat. N to Long. W		Depth Range		Comments
				From	To	Lat. N Long. W	Lat. N Long. W	UCF	CF CM	
8432	V	V	2 July	1154/183	1232/183	51°17' 14°04'	- -	269	275 502	To 480 m.
8433	S. Refr.	PUBS (2)	2-3 July	1303/183	0333/185	51°19' 14°16'	53°07' 14°04'	269 - 101	275 - 103 502 - 188	110 mile line to the north. One PUBS lost.
8434	S. Refr.	PUBS (2)	27-28 July	2030/208	0956/209	36°28' 33°24'	37°02' 33°12'	604 -1680	621 -1725 1135 -3154	Median valley line.
8435	V	V	28 July	1012/209	1112/209	36°38' 33°19'	- -	1530	1570 2871	To 2000 m.
8436	EP	BTE	28 July	1341/209	1803/209	36°36' 33°21'	36°33' 33°25'	1688 -1530	1733 -1570 3169 -2871	Electrodes fouled during station.
8437	S. Refr.	PUBS (2)	29 July	0025/210	1100/210	36°39' 33°21'	37°02' 33°11'	1058 -1564	1085 -1605 1984 -2935	Reversal of median valley line.
8438	TC	BMC	29 July	1245/210	1804/210	36°46' 33°19'	36°44' 33°15'	988 -1310	1024 -1344 1872 -2457	400 pictures over 1.2 miles.
8439	EP	BTE	29 July	2224/210	0431/211	36°34' 33°25'	36°35' 33°18'	1366 -1678	1401 -1723 2562 -3151	Recorder failure.
8440	S. Refr.	PUBS (2)	30 July	0608/211	0431/212	36°41' 33°10'	36°52' 33°04'	758 -1518	778 -1558 1422 -2849	Rift mountain and cross valley lines. Explosives and 1000 cu. in. airgun sound source.

8441	TC	BMC	31 July	0615/212	1522/212	36°49' 33°17'	36°54' 33°10'	1240 -1396	1272 -1432	2326 -2618	1500 pictures over 4 miles.
8442	EP	BTE	31 July	1619/212	2023/212	36°58' 33°16'	37°04' 33°13'	1394 -1110	1430 -1134	2615 -2083	Successful record.
8443	S. Refr.	PUBS (1)	1 August	0618/213	1254/213	36°47' 33°41'	36°59' 33°37"	704 -1081	723 -1109	1322 -2028	DSDP site survey. 1000 cu. in. airgun.

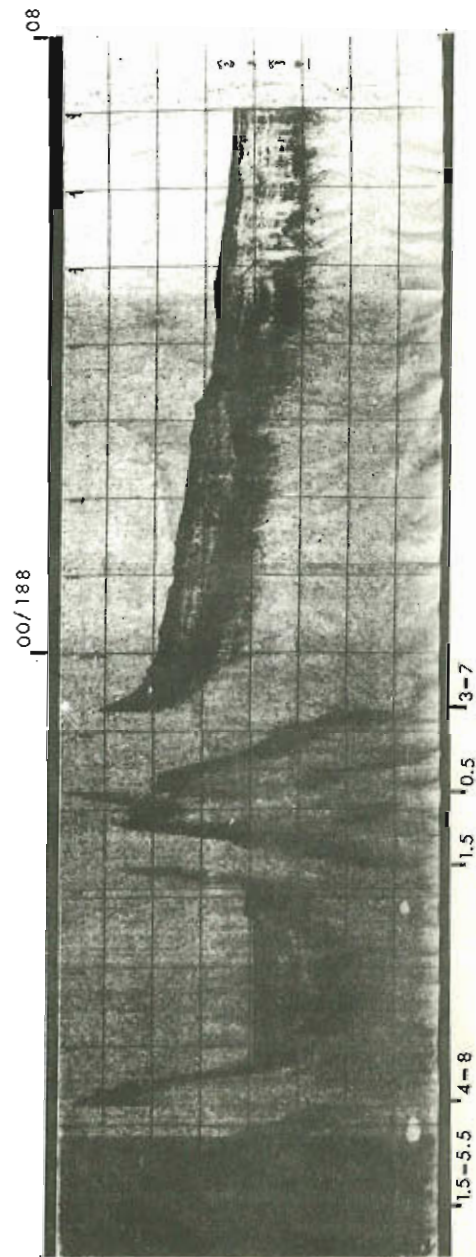
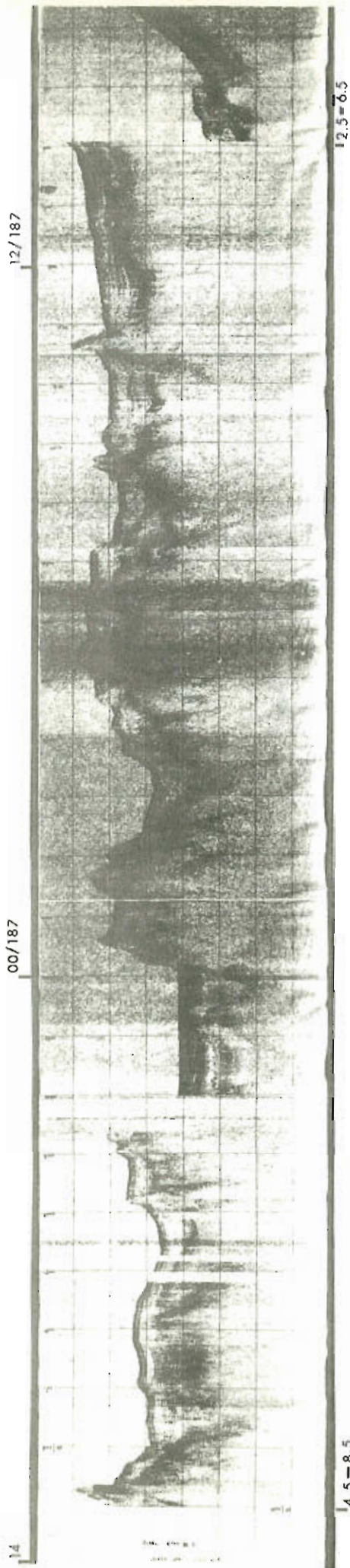
V	=	Velocimeter
TC	=	Towed Camera
BMC	=	Buoyant Mini Camera
S. Refr.	=	Seismic Refraction line
PUBS	=	Pop-up Bottom Seismic Recorder
EP	=	Electric Potential
BTE	=	Bottom Towed Electrodes
UCF	=	Uncorrected Fathoms
CF	=	Corrected Fathoms
CM	=	Corrected Metres

TABLE III GLORIA SONOGRAPHS

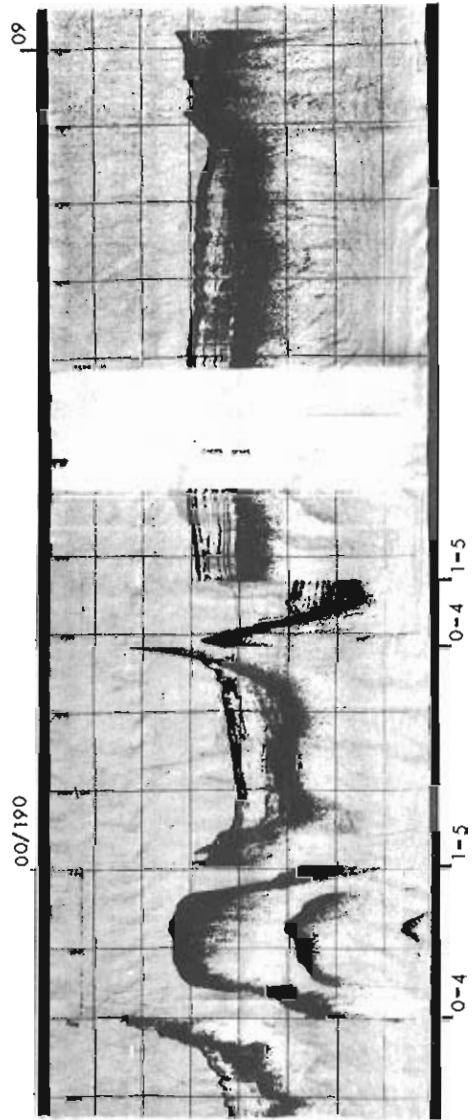
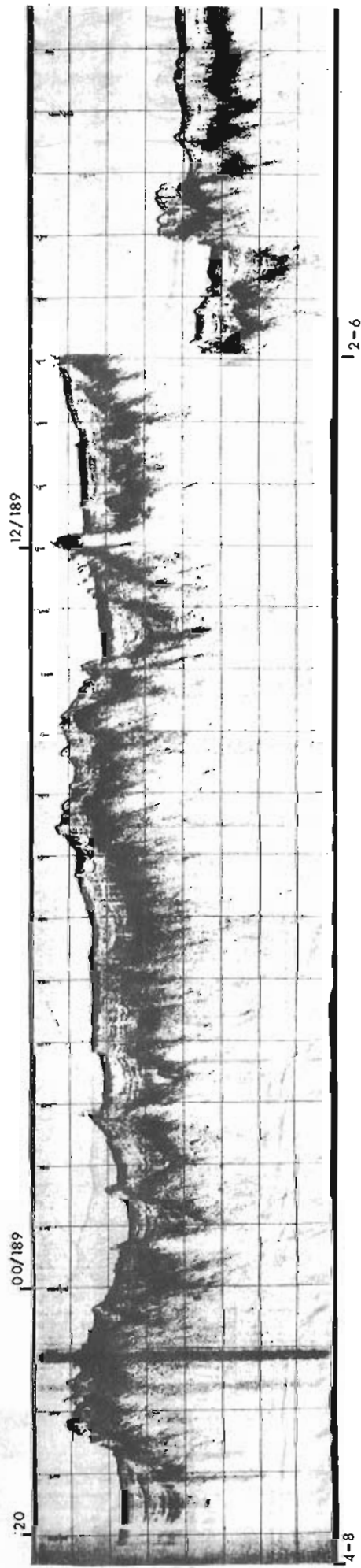
Date	Time(Z)/Day No. From To	Range n. m	Viewing Side	Speed	Length track n. m.	Area	Comments
8-9 July	0200/189 0904/190	7'	Starboard	7 kts	211	King's Trough to Azores	Low power output.
9-10 July	1330/190 0840/191	15'	Starboard	7 kts	133	Between East and West Azores.	
10 July	0900/191 1622/191	7'	Starboard	7 kts	57	"	
10 July	1630/191 1800/191	15'	Starboard	7 kts	9	"	
10-17 July	1800/191 1518/198	15'	Alternating starboard and port	7 kts	1173	FAMOUS Area.	
17-19 July	1530/198 0456/200	7' & 3.5'	Alternating	7 kts	206	Median valley studies.	
19-20 July	0500/200 0600/201	15'	Starboard	7 kts	177	Extra line for main survey.	
20-22 July	0600/201 0800/203	15'	Port	7 kts	345	South side of Azores Plateau.	
3-5 August	1220/215 1920/217	15'	Port	7 kts	380	South of Gloria Fault Zone.	
5-6 August	1930/217 0654/218	15'	Starboard	7 kts	85	Near GIBAZ survey.	
6-7 August	0707/218 1700/219	15'	Port	7 kts	232	To Josephine Bank.	
7-8 August	1700/219 2138/220	15'	Port	7 kts	195	Madeira-Tore Rise.	
8-9 August	2138/220 0715/221	15'	Starboard	7 kts	66	Approach to Madeira.	
TOTAL					3229		

SECTION F

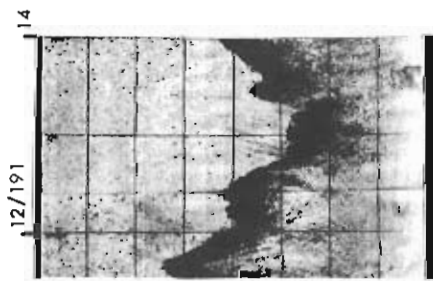
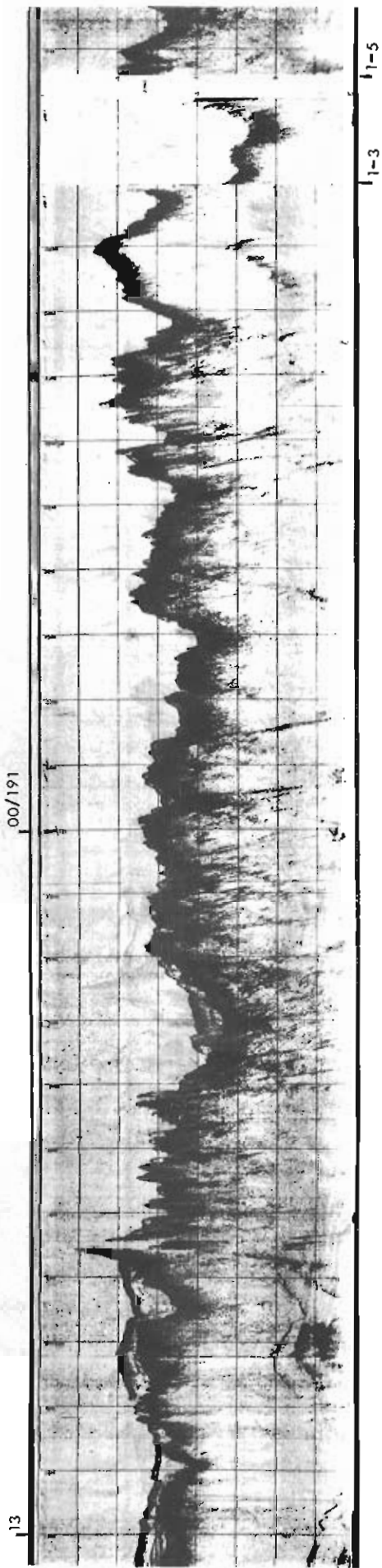
(A)



(B)



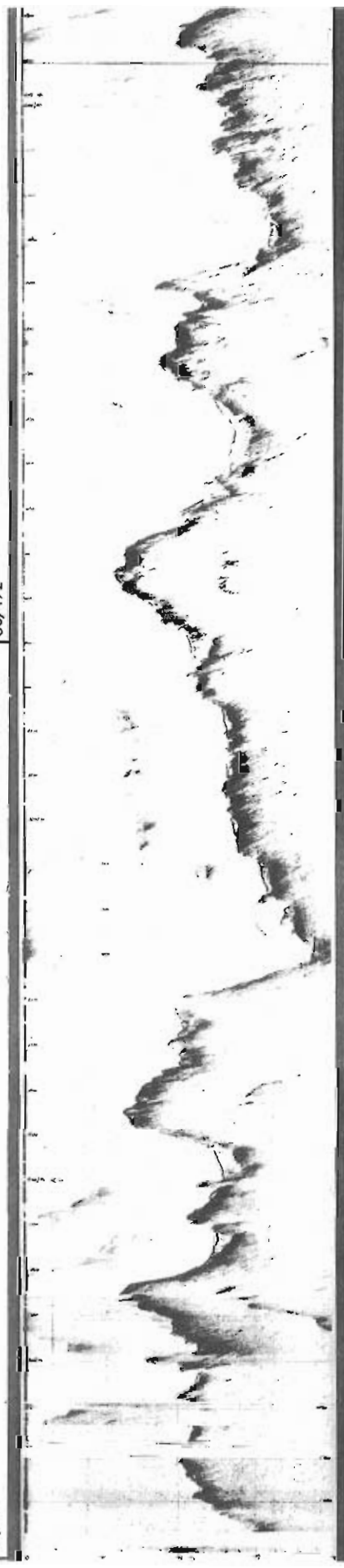
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14/191

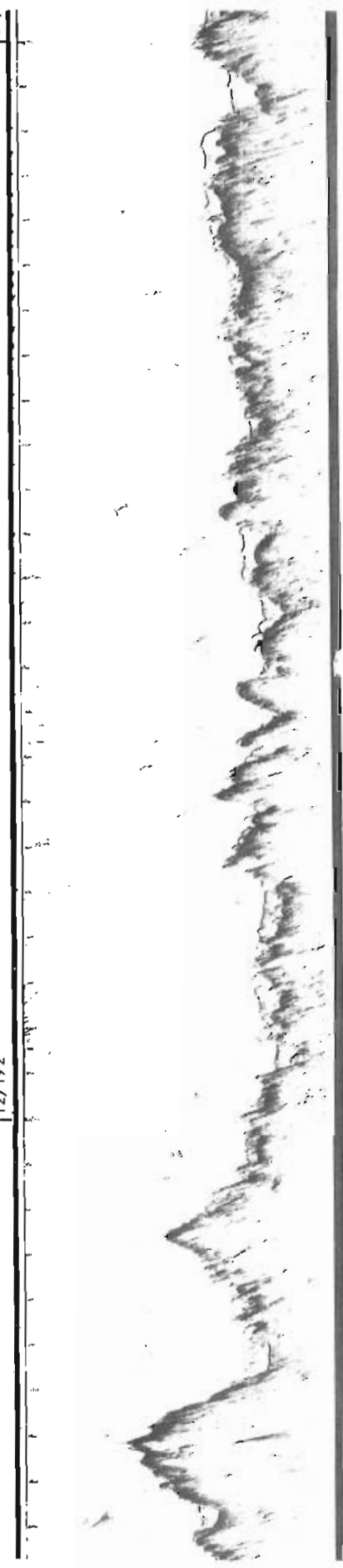
100/192



10-4

12/192

100/193



(E)

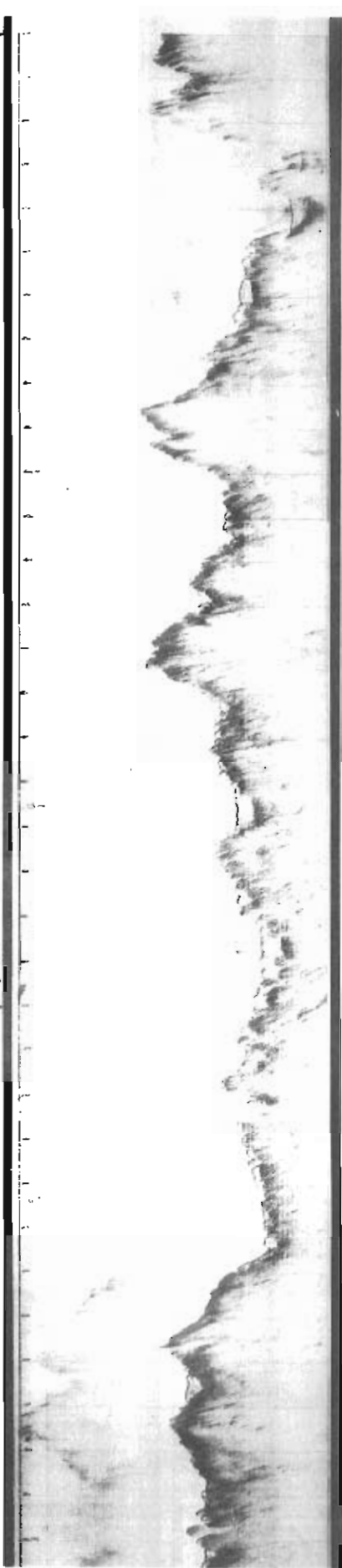
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12/193



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11

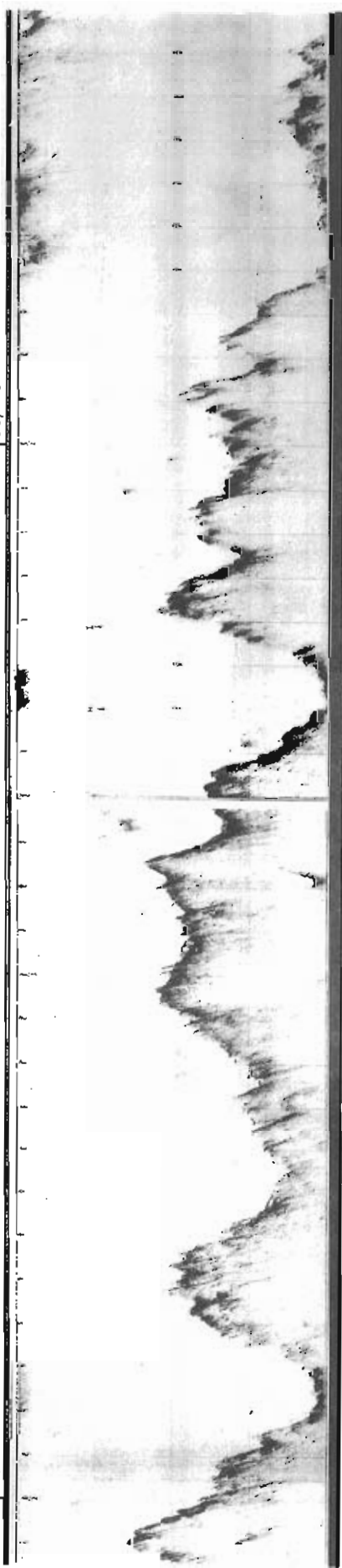




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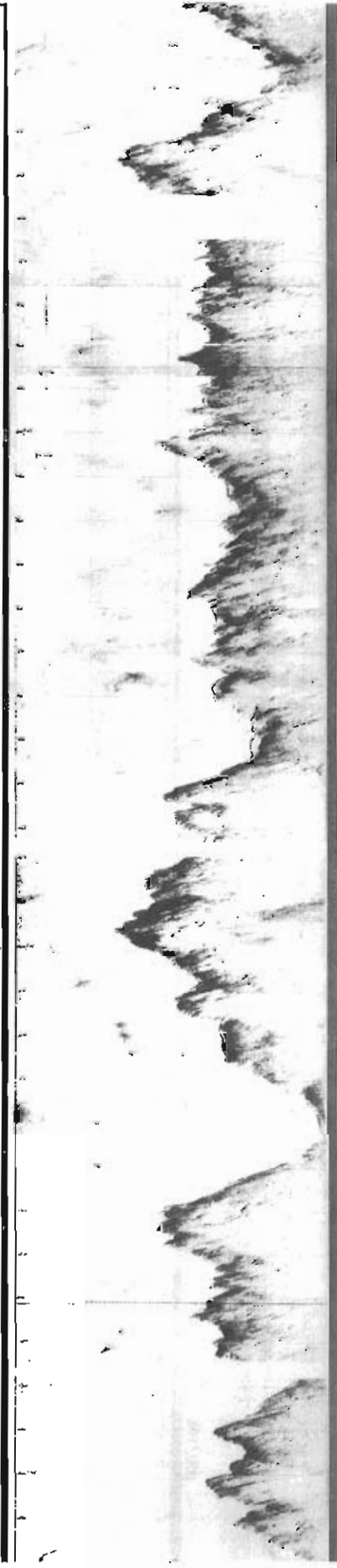
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100/195



112/195

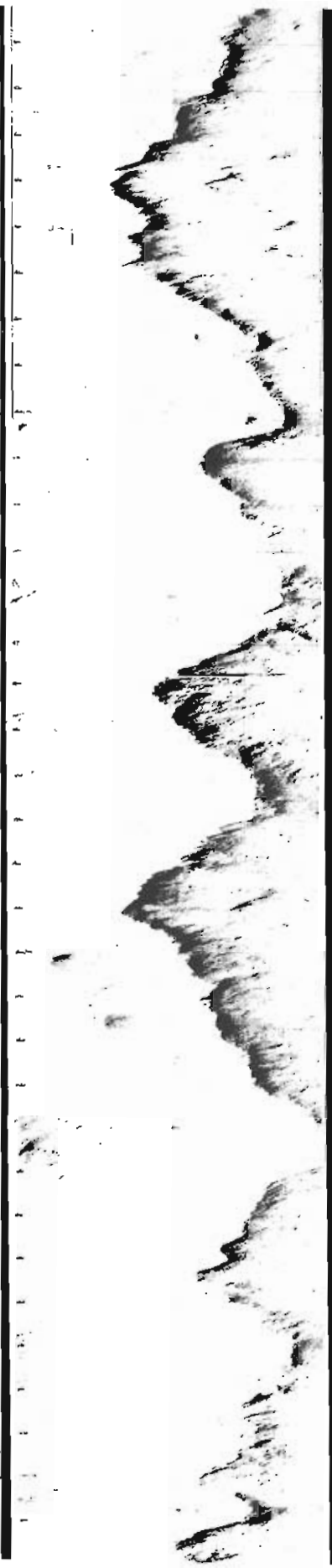
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12/196

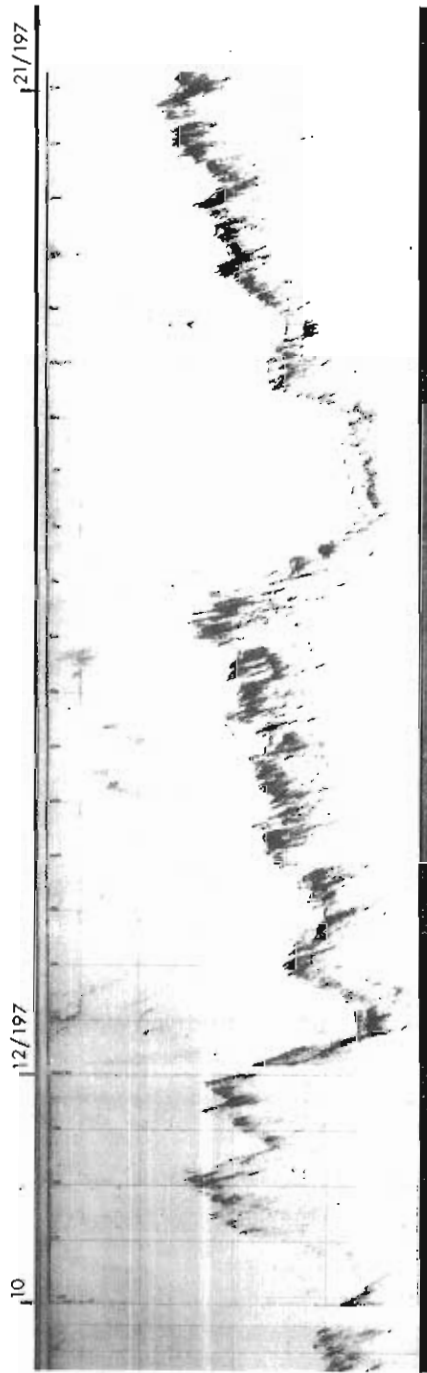


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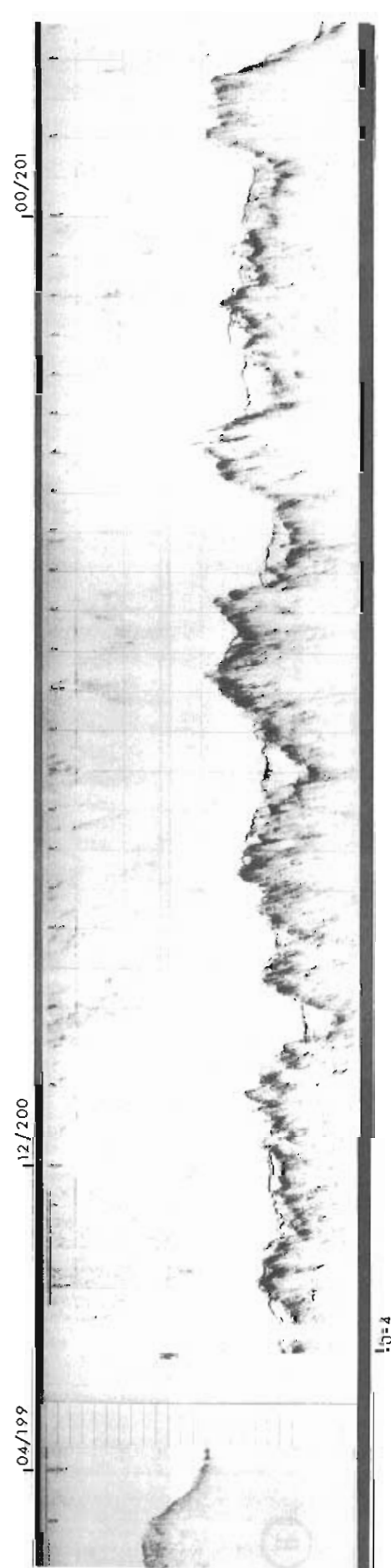
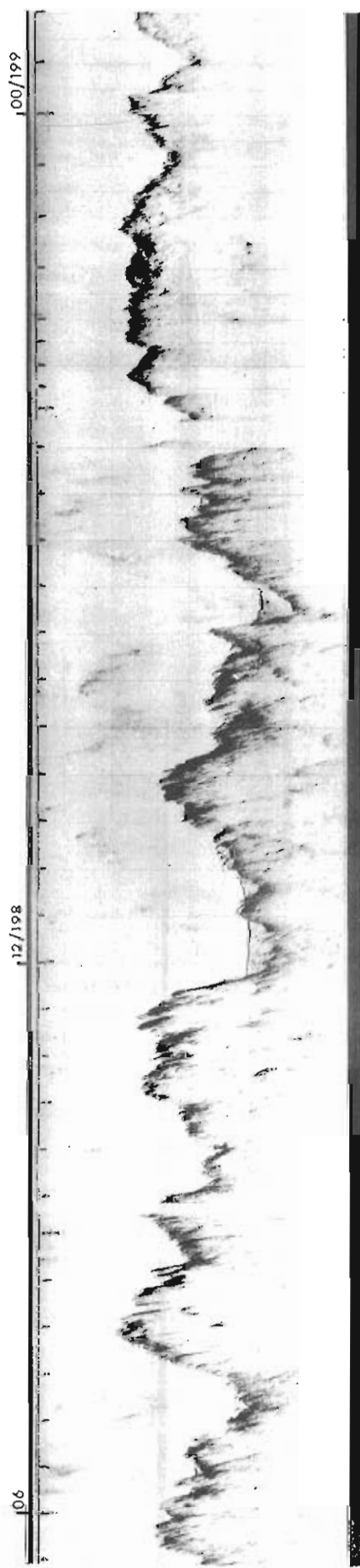
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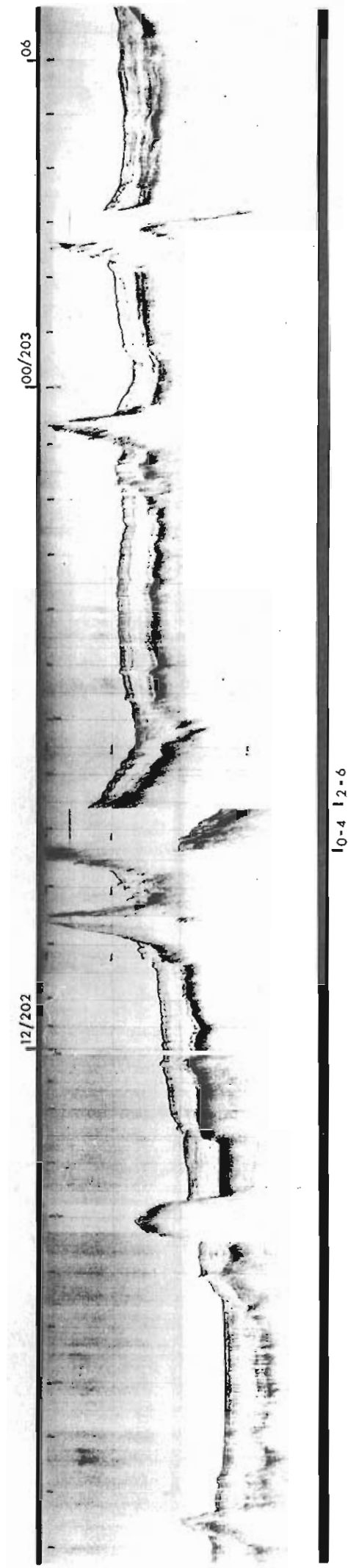
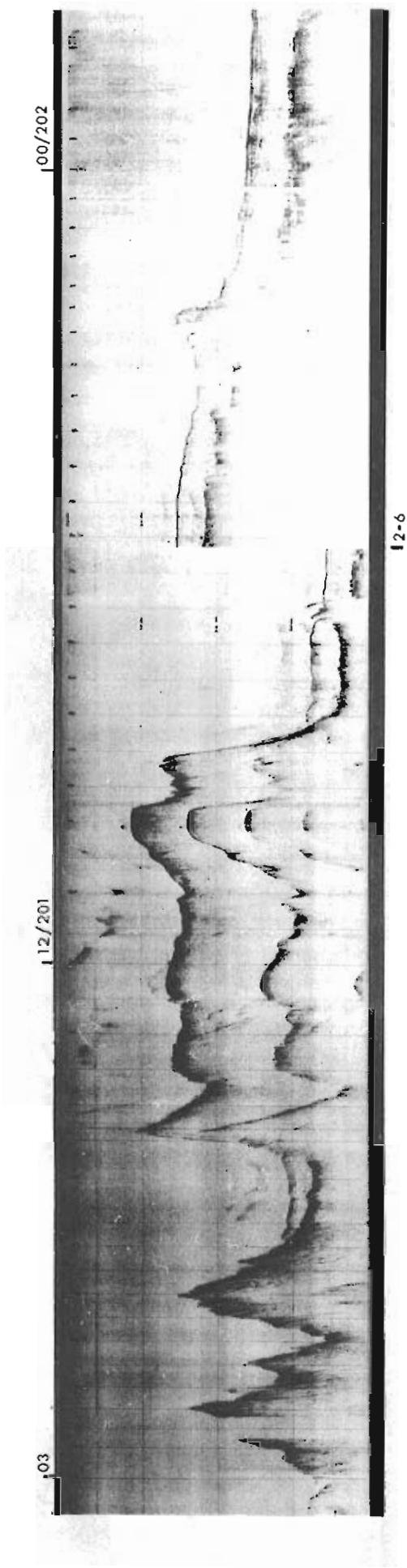
(H)



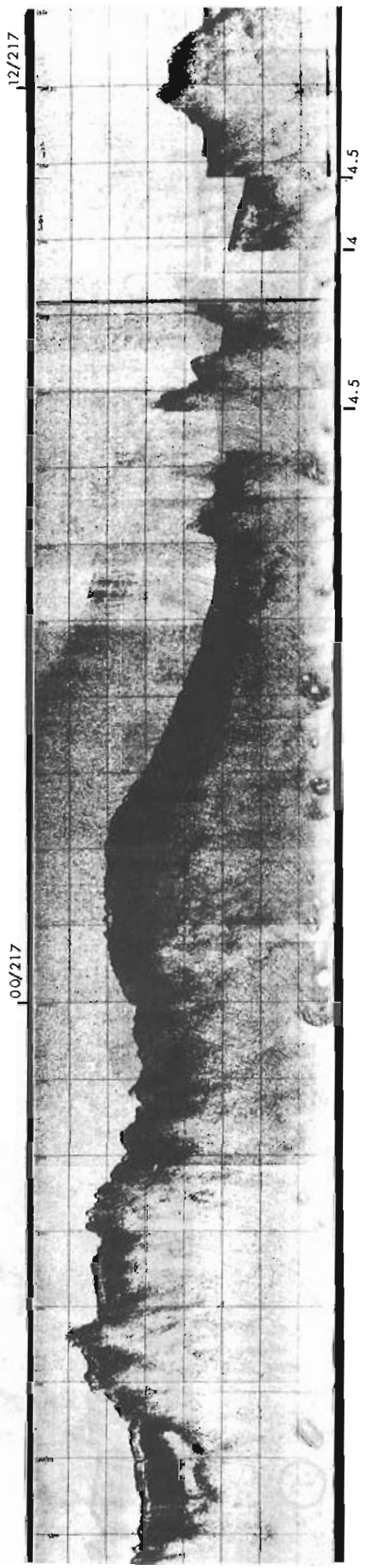
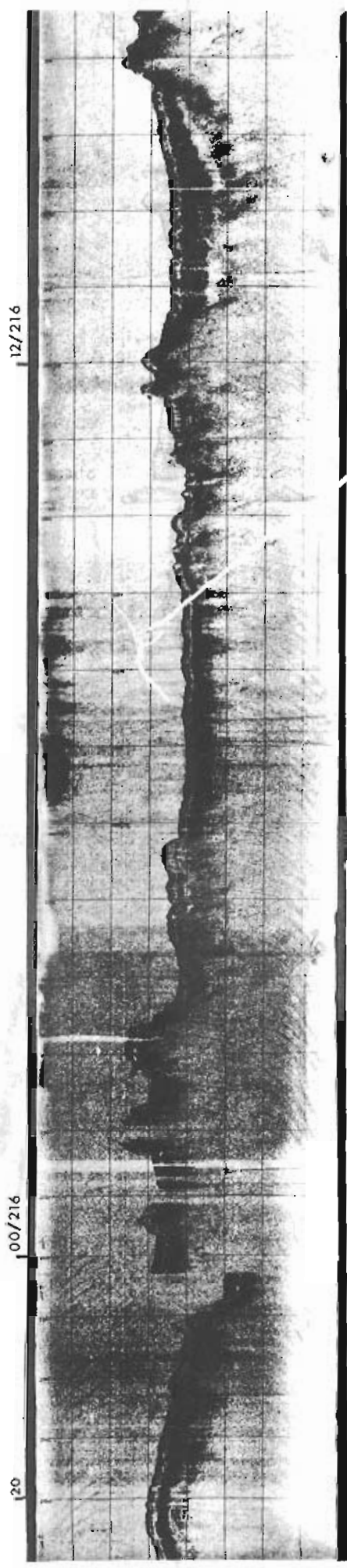
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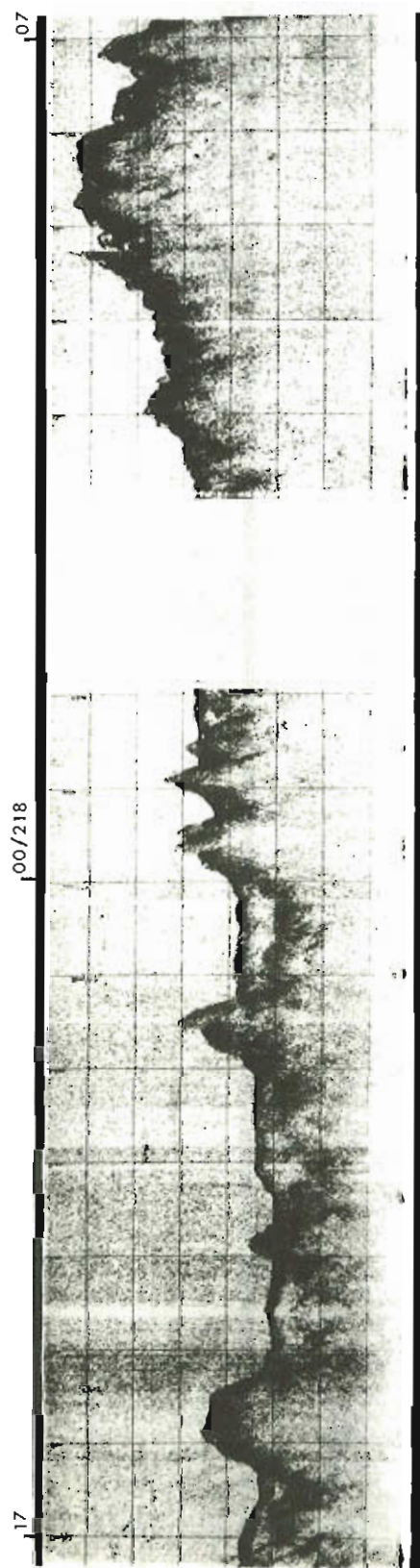
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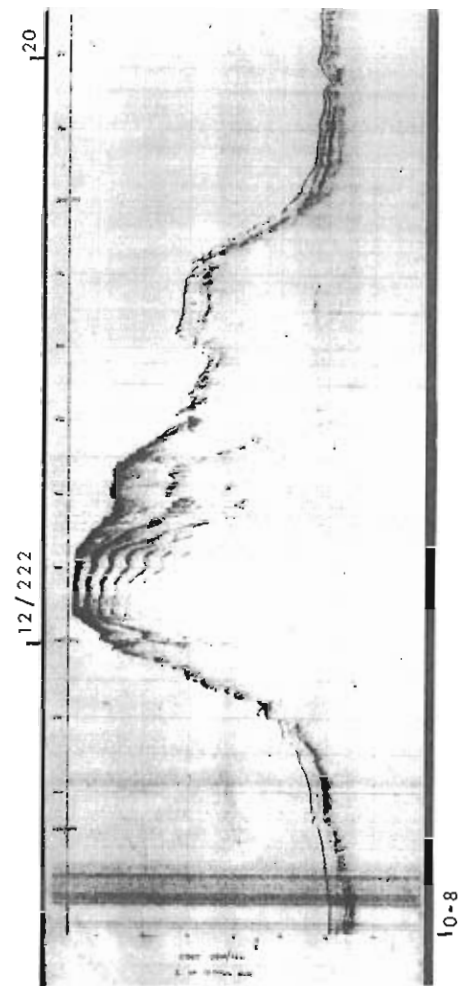
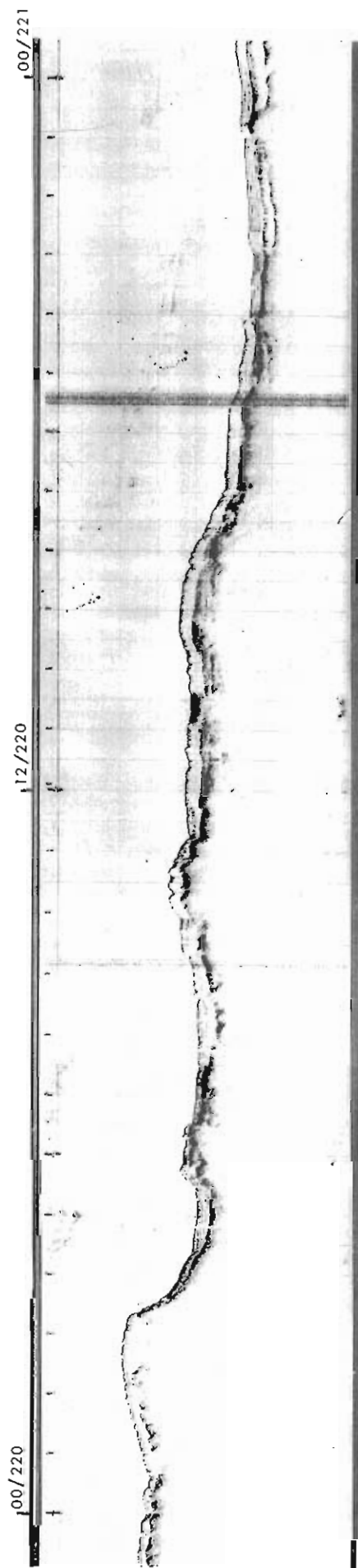
(K)



L



(N)



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