

OPEN FILE REPORT NO. 1333

A COMPILATION OF PLANKTONIC AND BENTHONIC FORAMINIFERAL SPECIES: CRUISE CSS

HUDSON 82-034, SOUTHEAST BAFFIN SHELF

BY

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TABULATION OF DATA GENERATED BY L.FISHER*and T. MacGillvary

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The foraminiferal data contained in this report are from two (2) Van Veen Grabs, four (4) IKU Grabs, five (5) Gravity cores and six (6) piston cores collected on the CSS HUDSON cruise 82-034 to Baffin Bay and Davis Strait by Senior Scientist, Brian MacLean, September 24 - October 18, 1982.

* Fisher Information Services

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1	14	Van Veen Grab	67°43.6'N	63°02.1'W
2	19-1	Gravity Core	66°45.2'N	60°19.2'W
3	19-2 *	Gravity Core	66°45.2'N	60°19.2'W
4	20	Gravity Core	66°44.6'N	59°59.9'W
5	31	IKU Grab	64°55.0'N	61°08.0'W
6	35	IKU Grab	64°55.18'N	62°09.48'W
7	41	Piston Core	64°25.22'N	62°26.38'W
8		TWC		
9	42	Piston Core	64°24.7'N	62°13.0'W
10	44	Van Veen	64°12.6'N	62°32.4'W

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11	51	IKU Grab	62°36.62'N	63°03.15'W
12	55	IKU Grab	62°10.45'N	63°02.74'W
13	56	Piston Core	61°51.01'N	63°39.3'W
14		TWC **		
15	57	Piston Core	61°46.75'N	63°49.7'W
16	68	Piston Core	62°13.3'N	65°40.2'W
17	69	Piston Core	62°14.9'N	65°35.0'W

* Second attempt to core site.

** TWC = Trigger weight core

18 Computer procedure for compilation

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ABSTRACT

One hundred and twenty-eight species of benthonic foraminifera including both arenaceous and calcareous types, and only five calcareous planktonic species were identified in sediments collected from two (2) Van Veen grabs, four (4) IKU grabs, five (5) Gravity Cores and six (6) Piston cores taken during the HUDSON 82-034 sampling cruise on the Southeastern Baffin Island Shelf. Cumulative percent and abundance, and percent plots have been tabulated and graphically presented for the four most abundant calcareous foraminifera encountered: Cassidulina reniforme, Elphidium excavatum forma clavata, Islandiella helenae and Nonionellina labradorica.

Resumé

INTRODUCTION

This report represents a compilation of the planktonic and benthonic foraminiferal species in 152 subsamples taken from Van Veen, IKU grabs, gravity cores and piston cores on the southeast Baffin Island Shelf in water depths ranging from 129 to 690 metres. The purpose of this report is to present a comprehensive compilation of the foraminiferal analyses in a format that may be useful to the studies of Quaternary sediments on the Baffin Island Shelf.

The area of study extends from approximately 62° N to 67° N and 65° W to 59° W (Fig. 1). A total of five Van Veen grabs, nine IKU grabs, three gravity cores and six piston cores were originally obtained. The foraminiferal distribution for those cores and grabs that were subsequently subsampled for micropaleontological analyses are reported herein. Those stations subsampled and the foraminiferal fauna identified from the Hudson 82034 cruise are tabulated in Table 1. The ecological, environmental and chronostratigraphic interpretation have been published under separate cover as GSC Paper 85-14 by Praeg et al., 1986 and in the East Coast Offshore Volume of the Geology of Canada Series presently in preparation. This report provides a tabulation of the taxonomy of the species of foraminifera encountered in the Quaternary sediments penetrated on the Southeast Baffin Shelf (Table 2 - Appendices 1-17).

Figure 1 - The area of study extends from approximately 62°
N to 67° N and 65° W to 59° W; Plot scale is
1:3,000,000 million

STATION LOCATIONS - HUDSON 82034

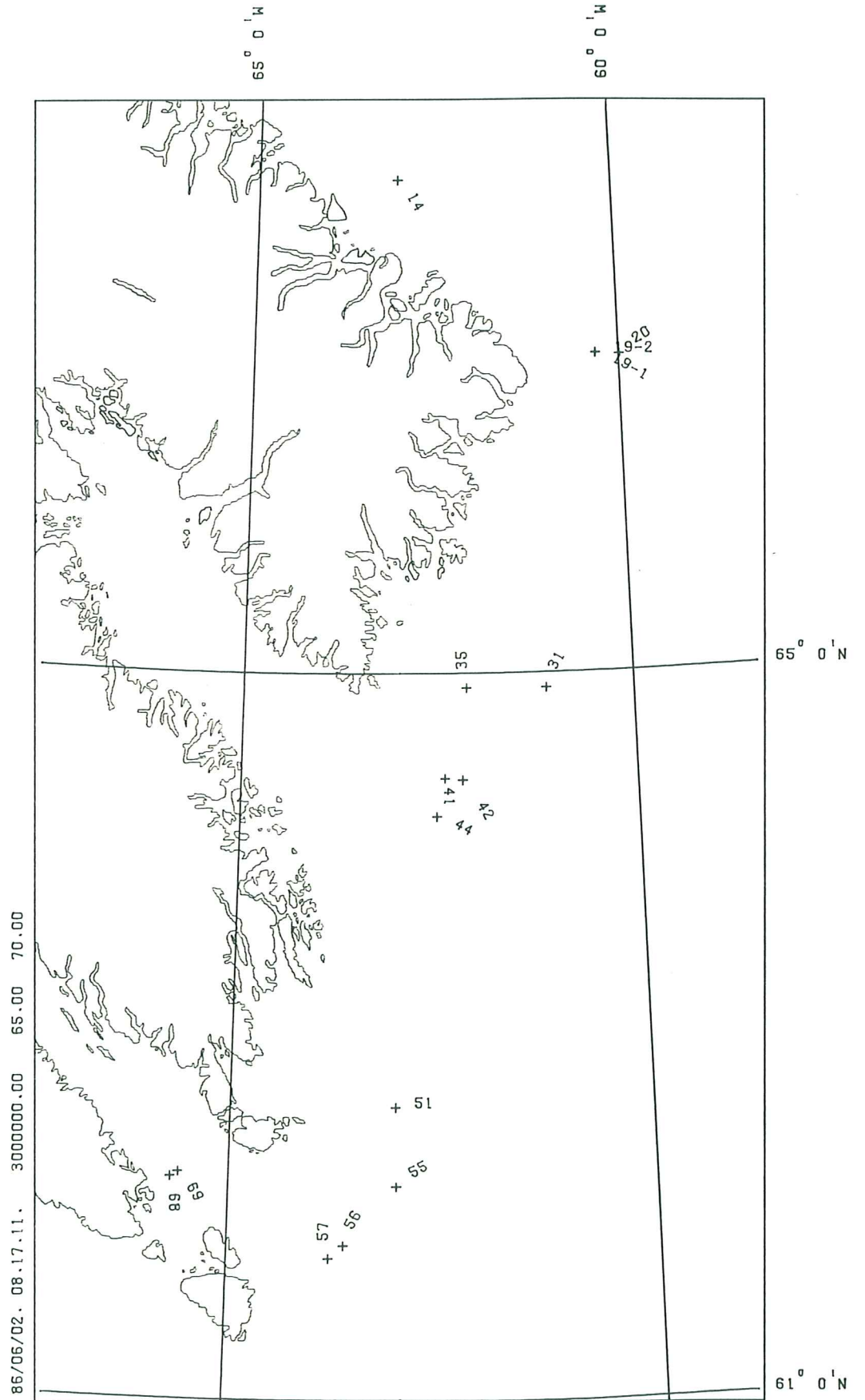


Table 1

LATITUDE AND LONGITUDE OF THE SEDIMENT SUBSAMPLES FROM THE SOUTHEASTERN BAFFIN SHELF

Cruise 82034 Sample Station	Type	Latitude	Longitude	Water Depth (m)	Total Depth (m)
14	Van Veen Grab	67°43.6'N	63°02.1'W	129	Surface
19-1	Gravity Core	66°45.2'N	60°19.2'W	550	Surface
19-2 *	Gravity Core	66°45.2'N	60°19.2'W	550	.42
20	Gravity Core	66°44.6'N	59°59.9'W	690	1.44
31	IKU Grab	64°55.0'N	61°08.0'W	265	Surface
35	IKU Grab	64°55.18'N	62°09.48'W	275	Surface
41	Piston Core + TWC **	64°25.22'N	62°26.38'W	340	3.7 .45
42	Piston Core	64°24.7'N	62°13.0'W	340	.77
44	Van Veen Grab	64°12.6'N	62°32.4'W	148	Surface

51	IKU Grab	62°36.62'N	63°03.15'W	214	Surface
55	IKU Grab	62°10.45'N	63°02.74'W	350	Surface
56	Piston Core + TWC **	61°51.01'N	63°39.3'W	523	1.52 .76
57	Piston Core	61°46.75'N	63°49.7'W	512	4.34
68	Piston Core	62°13.3'N	65°40.2'W	311	5.95
69	Piston Core	62°14.9'N	65°35.0'W	315	4.5

* Second attempt to core site.

** TWC = Trigger weight core

The sample location sites listed in Table 1 are in numerical order and correspond to the location map (Fig.1). The taxonomic identifications have been tabulated for each location (see Appendices 1-17). Graphic presentations of the cumulative percent, cumulative abundance and percent for the four most abundant benthic species are consecutively attached to each appendix and are labelled A, B and C respectively.

METHOD

Sediment subsamples (35 ml) removed from the Van Veen grabs, 1KU grabs, gravity and piston cores were washed through a 63 micrometre sieve and foraminifera were analysed from the fraction greater than 125 micrometres. The foraminifera were removed from the residue or in many instances, from a small split of the residue and were then identified and counted accordingly.

FORAMINIFERAL DISTRIBUTION

The analysis of Foraminiferida should permit the identification of the depositional environments and show regional distribution of particular species. Four species have been identified at 25 cm intervals in the gravity and downcore piston samples in sufficient numbers to permit them to be isolated as overwhelmingly dominant species. Computation of these four species, Cassidulina reniforme, Elphidium excavatum forma clavata, Islandiella helenae and Nonionellina labradorica by percent, cumulative percent and cumulative abundance reflect a similar distinct pattern of shifting of dominance downcore. Appendix 18 displays the computer procedure utilized in this compilation. Original data and samples are curated by the Program Support Subdivision, Atlantic Geoscience Centre utilized in this compilation. A Quaternary biostratigraphic database has been devised at the Atlantic Geoscience Centre to store the vast quantities of subsampled foraminiferal analyses generated to date. This system is capable of providing the automated reports, attached numerically as Appendices 1 to 17. The uniqueness of the system design is the standardization of data tabulation by all users and the maintenance of a species dictionary that will retrieve the latest updated synonym. A definition of the BUGS Quaternary database is included in Appendix 19.

The reports for each station location listed includes sample type, latitude, longitude, water depth in metres, interval depth and width in centimetres, wet weight and/or dry weight in grams, split fraction as a whole integer, total number of benthonic and/or planktonic foraminifera for that split and diversity (an integer reflecting the stability of the environment by quantifying the number of species and foraminifera in a particular sample). Diversity is relatively high when there are many different species in a sample, even if their numbers are low. Diversity is relatively low if there are only a few species, even if they are abundant.

BRIEF SUMMARY

A generalized interpretation of the faunal distribution can be briefly summarized as follows:

Recent sediments are primarily dominated by Cibicides lobatulus, a species that typifies a high-energy, winnowing environment and by Nonionellina labradorica, a species indicative of open marine conditions. Beneath these sediments low diversities and faunal numbers reflect a zone of ice proximal glacial marine sediments that are reflected by the dominating shift downcore by Cassidulina reniforme and Elphidium excavatum forma clavata. Such an assemblage would support a period of glacial ice advance and an accompanying retreat. Dominance of Cassidulina reniforme in the lower underlying benthic foraminiferal arctic assemblage could reflect distal glacial-marine conditions prior to a glacial advance. A less diverse arctic fauna downcore represents a thin zone of proximal ice conditions that overlies an assemblage dominated by Cassidulina reniforme. These same zones of Cassidulina reniforme are also coincident with times of greatest numbers of Neogloboquadrina pachyderma (sinistrally coiled, normal form) that may represent periods of meltwater during periods of deglaciation. Beneath this lowermost zone of abundant Cassidulina reniforme, low arctic faunal diversities are underlain by a zone mainly devoid of foraminifera that may represent ice proximal marine conditions.

Continued input of foraminiferal data into the AGC Quaternary database will inevitably refine any climatic interpretations of proglacial and paleoceanographic models in the offshore areas of Eastern Canada and will therefore be a valuable ecologic and environmental tool for micropaleontologists and geologists alike.

TABLE 2 - APPENDICES

Hu 82-034

Appendix 1	Station 14	Van Veen Grab
2	Station 19-1	Gravity Core
3	Station 19-2	Gravity Core
4	Station 20	Gravity Core
5	Station 31	IKU Grab
6	Station 35	IKU Grab
7	Station 41	TWC
8	Station 41	Piston Core
9	Station 42	Piston Core
10	Station 44	Van Veen Grab
11	Station 51	IKU Grab
12	Station 55	IKU Grab
13	Station 56	TWC
14	Station 56	Piston Core
15	Station 57	Piston Core
16	Station 68	Piston Core
17	Station 69	Piston Core
18	Computer Procedure for Compilation	
19	BUGS Quaternary Database Definition	

Appendix 1

82034014

Van Veen Grab

Plot A- Percent Abundance
B- Cumulative Percent
C Total Abundance

CRISTE: 23.57
 LATITUDE: 67.7266

STATION: J14

SAMPLE TYPE: IKU-GRAB

PAGE: 1

LONGITUDE: -53.0350

WATER DEPTH: 129

INTERVAL DEPTH(CM) 3
 INTERVAL WIDTH(CM) 5

BENTHONIC FORAMINIFERA

TOTAL 102
 DIVERSITY 1.67

GENUS / SPECIES

PERCENTAGES

ADERCUTRYMA	GLONCRATA	50.12
BUCCELLA	FRIGIDA	1.04
CIRRICYDID	LOBRATHIDUS	3.13
CRIBROSTOMOIDES	CRASSIMARPA	2.08
CRIBROSTOMOIDES	DIFFERENS	4.17
CRIBROSTOMOIDES	MYLONART	1.04
DISCORRIS	SOLANATA	0.92
EGGERELLA	ADVENA	0.92
ELPHIDIUM	TYCAVATUM CLA	0.92
ELPHIDIUM	SUBRECTICUM	0.92
HYPERAMMINA	ELONGATA	2.08
HYPERAMMINA	CYLINDRICA	3.13
ISLANDELLA	CHERNA	1.04
REOPHAX	EUSTORMIS	0.92
REOPHAX	QUITTENSE	0.92
REOPHAX	ROSTRATA	0.92
TEXTILARIA	AGGLUTINANS	0.92
TEXTILARIA	TROGLATA	1.04
TROCHAMMINA	VANA	14.59
TROCHAMMINA	NETIDA	0.92
TROCHAMMINA	QUADRILORA	1.04

LATITUDE: 47.7386

LONGITUDE: -63.2381

WATER DEPTH(M): 129

DEPTH APPROXIMATE
(CM) CLONATA

BUCCELLA
FRIGIDA

CIRRICTES
LORATULUS

CRIBROSTOMOIDES
CRASSIMARGO

CRIBROSTOMOIDES
JEFFREYSI

0 3.52

2.04

2.13

2.08

4.17

LATITUDE: 47.7256

LONGITUDE: -63.0353

WATER DEPTH(M): 129

DPTH (CM) CP1980STJMDTDS
(MISNER)

DISCOBRYA
SQUAMATA

EGGERELLA
ADVENA

ELPHIDIUM
EXCAVATUM CLAVATA

ELPHIDIUM
SUBARCTICUM

0 1.04

.52

.52

.52

.52

CORE: 02724
LATITUDE: 47.7246

STATION: 024

SAMPLE TYPE: IKU-GRAB

PAGE: 3

LONGITUDE: -63.0350

WATER DEPTH(M): 129

DPTH
(CM) HYPERAMMNA
 FLONGATA

HYPERAMMNA
CYLINDRICA

ISLANDIFILIA
HELENAE

REOPHAX
FUSIFORMIS

REOPHAX
GUTTIFER

2.00

2.23

1.56

9.38

.52

CITE: 42034

STATION: 014

SAMPLE TYPE: IKU-GRAB

PAGE: 4

LATITUDE: 47.7255

LONGITUDE: -83.0353

WATER DEPTH(M): 129

DPTH RIBBON
(CM) ROSETTA

TEXTULARIA
AGGLUTINANS

TEXTULARIA
TERRATA

TROCHAMMINA
NANA

TROCHAMMINA
NITIDA

0 4.12

.82

1.56

14.58

.52

CORR: 42034

STATION: 034

SAMPLE TYPE: IKH-GRAP

PAGE: 5

LATITUDE: 67.7216

LONGITUDE: -53.035

WATER DEPTH(M): 120

DPH TR JCHANNINA
(CM) QUADRILORA

0 1.14

LATITUDE: 37.7256

LONGITUDE: -69.6350

WATER DEPTH: 120

INTERVAL DEPTH(CM) 0
 INTERVAL WIDTH(CM) 5

BENTHONIC FORAMINIFERA

TOTAL 102
 DIVERSITY 1687

GENUS / SPECIES

COUNTS

ADERCOTRYMA	CLIMBATA	07
BUCCELLA	EBBICIDA	2
CIBICIDES	LOBRATULUS	6
CRIPROSTOMOIDES	CRASSIMARCO	4
CRIPROSTOMOIDES	JEFFREYSI	9
CRIPROSTOMOIDES	WILSONERI	2
DISCOORBIS	SQUAMATA	1
EGGHELLA	ZOVENA	1
ELPHIDIUM	EXCAVATUM CLA	1
ELPHIDIUM	SUBRECTICUM	1
HYPERAMMINA	ELONGATA	4
HYPERAMMINA	CYLINDRICA	5
ISLANDTELLA	HELENAE	3
REOPHAY	RUSTIFORMIS	10
REOPHAY	CUTTJEFFI	1
REOPHAY	ROSTRATA	1
TEXTULARIA	ABSOLUTINANS	1
TEXTULARIA	TORQUATA	3
TROCHAMMINA	HANA	20
TROCHAMMINA	NITIDA	1
TROCHAMMINA	QUADRILORA	3

CITE: 82086

STATION: 014

SAMPLE TYPE: IKU-GRAB

PAGE: 1

LATITUDE: 47.7266

LONGITUDE: -63.0350

WATER DEPTH(M): 129

BOTH ADERCOBYMA
(CM) GLOSCATA

BUCCELLA
FRIGIDA

CIBICIDES
LOBATULUS

CRIBROSTOMOIDES
CRASSIMARGO

CRIBROSTOMOIDES
JEFFREYSI

0

07

2

4

4

8

CORE: 32024

STATION: 134

SAMPLE TYPE: IKH-GRAB

PAGE: 2

LATITUDE: 57.7266

LONGITUDE: -52.0250

WATER DEPTH(M): 120

POTH CRIPIDOSTOMOIDES
(C1) HIESNERI

DISCORDIS
SOKAMATA

EGGERELLA
ADVENA

ELPHIDIUM
EXCAVATUM CLAVATA

ELPHIDIUM
SUBARCTICUM

1

2

1

1

1

1

CORE: 02034

STATION: C14

SAMPLE TYPE: IKU-GRAB

PAGE: 3

LATITUDE: 47.7266

LONGITUDE: -68.0350

WATER DEPTH(M): 120

DEPTH HYDROGRAMMA
(CM) FLONGATA

HYDROGRAMMA
CYLINDRICA

ISLANDICELLA
HELENAE

REOPHAX
FUSIFORMIS

REOPHAX
GUTTIFER

0

4

4

3

18

1

LATITUDE: 37.7246

LONGITUDE: -62.6353

WATER DEPTH(M): 129

POTH RETORNAK
(CM) DISTURTA

TEXTILARIA
AGGLUTINANS

TEXTILARIA
TORQUATA

TROCHAMMINA
NANA

TROCHAMMINA
NITIDA

0 1

1

3

28

1

DATE: 1968
LATITUDE: 47.7566

STATION: 14

SAMPLE TYPE: IKU-GRA3

PAGE: 5

LONGITUDE: -62.0350

WATER DEPTH(M): 120

DEPTH (M) 120
SOUNDING

Appendix 2

82034019-1

Gravilty Core

STATION: 42334

STATION: 42334

SAMPLE TYPE: GRAVITY

PAGE: 1

LATITUDE: 67.7533

LONGITUDE: -60.2200

WATER DEPTH(M): 560

DEPTH CYCLES
(CM) PLATE NO.

0 1

Appendix 3

82034019-2

Gravity Core

Plot A- Percent Abundance

B-Cumulative Percent

C-Total Abundance

DEPTH (CM)	TEMP (C)	TEMP (F)	TEMP (C)	TEMP (F)	TEMP (C)	TEMP (F)	TEMP (C)	TEMP (F)
0								
2								11.11
20							12.11	12.94

ALPHIDIUM
 EXCAVATUM CLAVATA

LONGITUDE: 144° 20' W

WATER DEPTH: 550

DEPTH (CM) 0

TRICHAMMINA
FLORIGERINIFORMIS

TRICHAMMINA
FLORIGERINIFORMIS

TRICHAMMINA
FLORIGERINIFORMIS

TRICHAMMINA
FLORIGERINIFORMIS

0

144° 20'

20

144° 20'

30

144° 20'

4.7

DPTH (CM)	AUTUMN CLAVATA	ELPHIDIUM EXCAVATUM	CYCLORHYZA PLANORBIS	ELPHIDIUM EXCAVATUM CLAVATA
1				
24		7		2
30	1	26	1	11

DATE: 11/17/77

LOCATION: 44-22-1

WATER DEPTH (M): 590

DEPTH (CM)

TRICHAMMINA
GLABRIGERINIFORMIS

TRICHAMMINA
GLABRIGERINIFORMIS

TRICHAMMINA
GLABRIGERINIFORMIS

TRICHAMMINA
GLABRIGERINIFORMIS

1

1

3

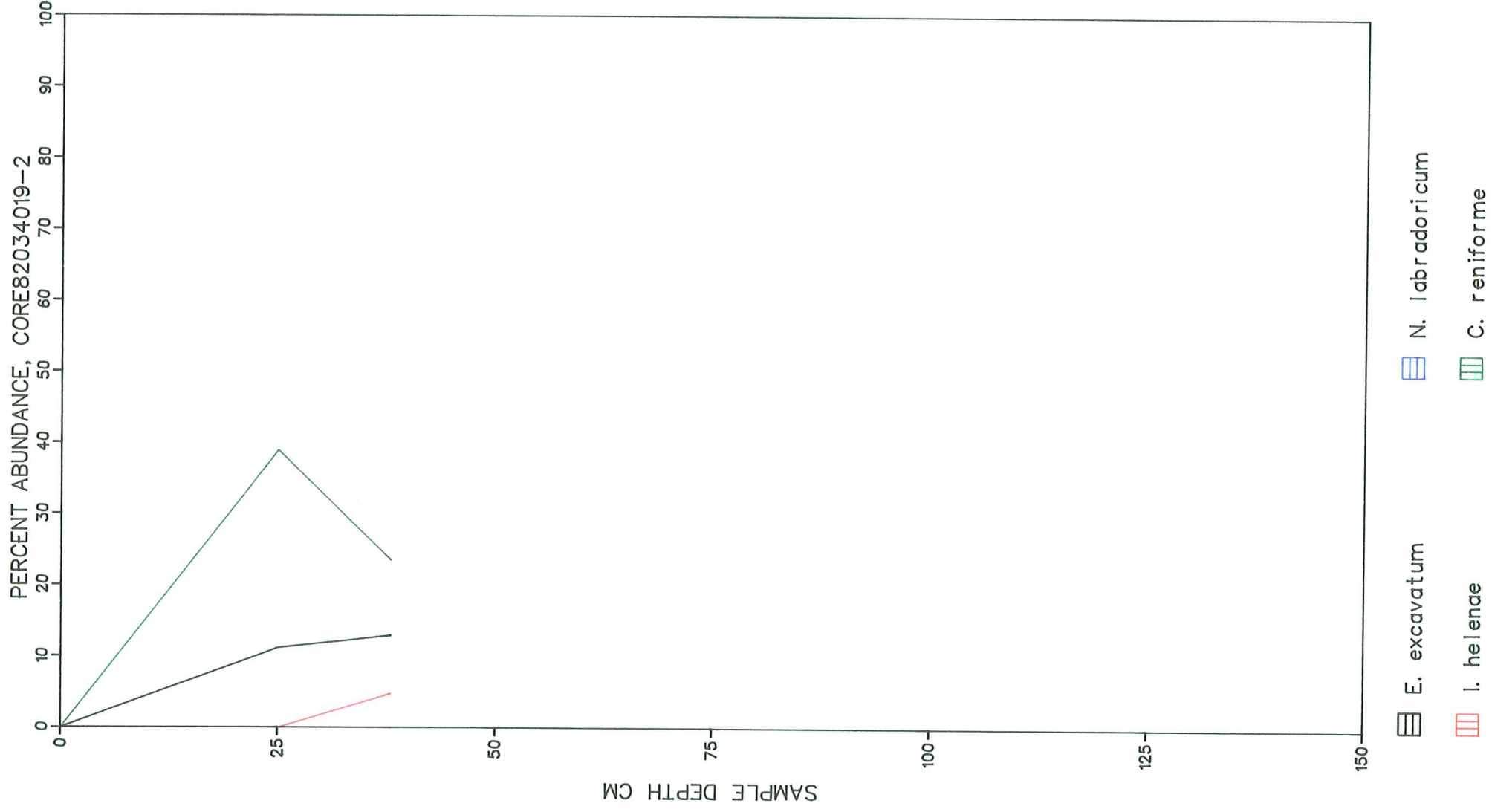
25

2

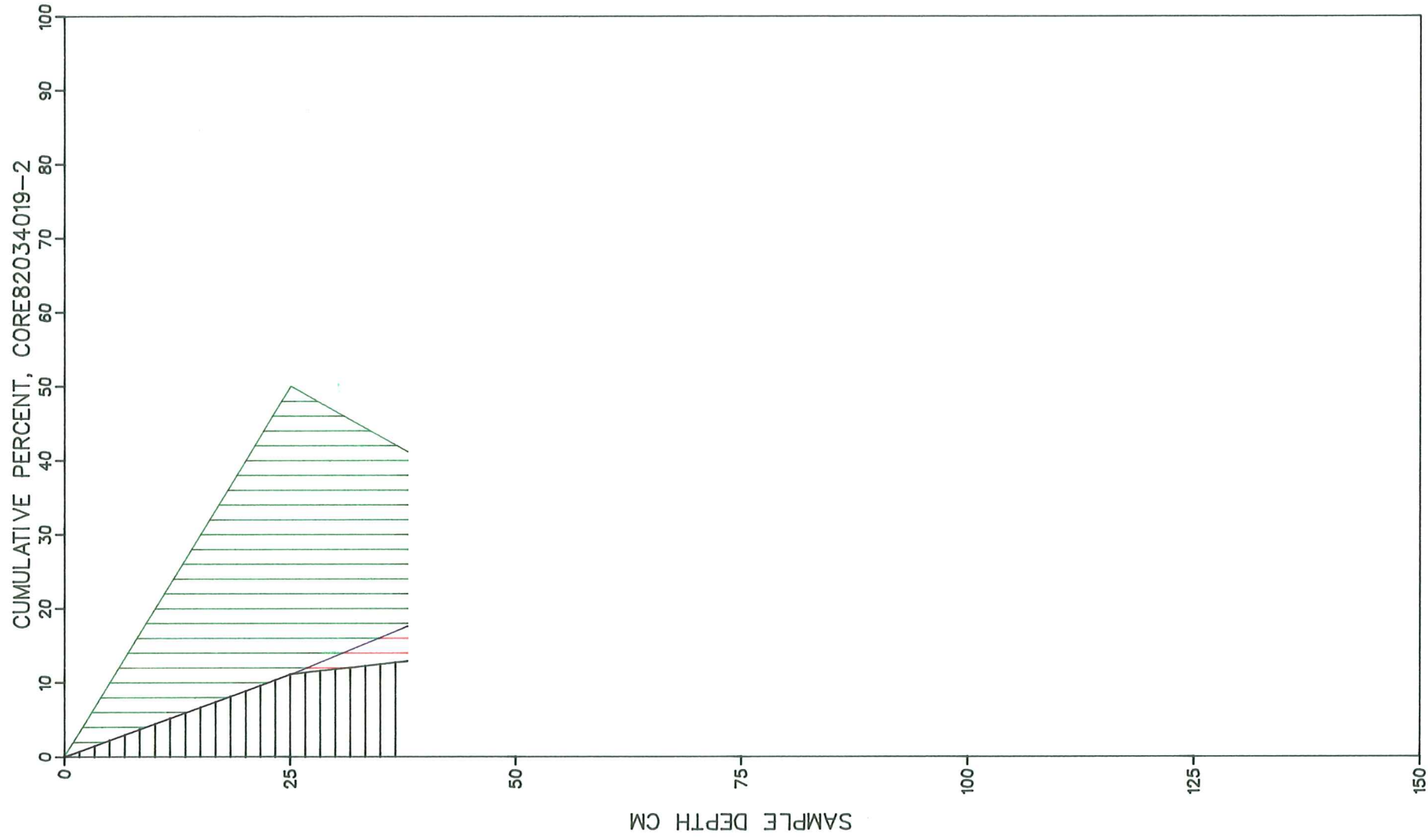
30

4

A



B



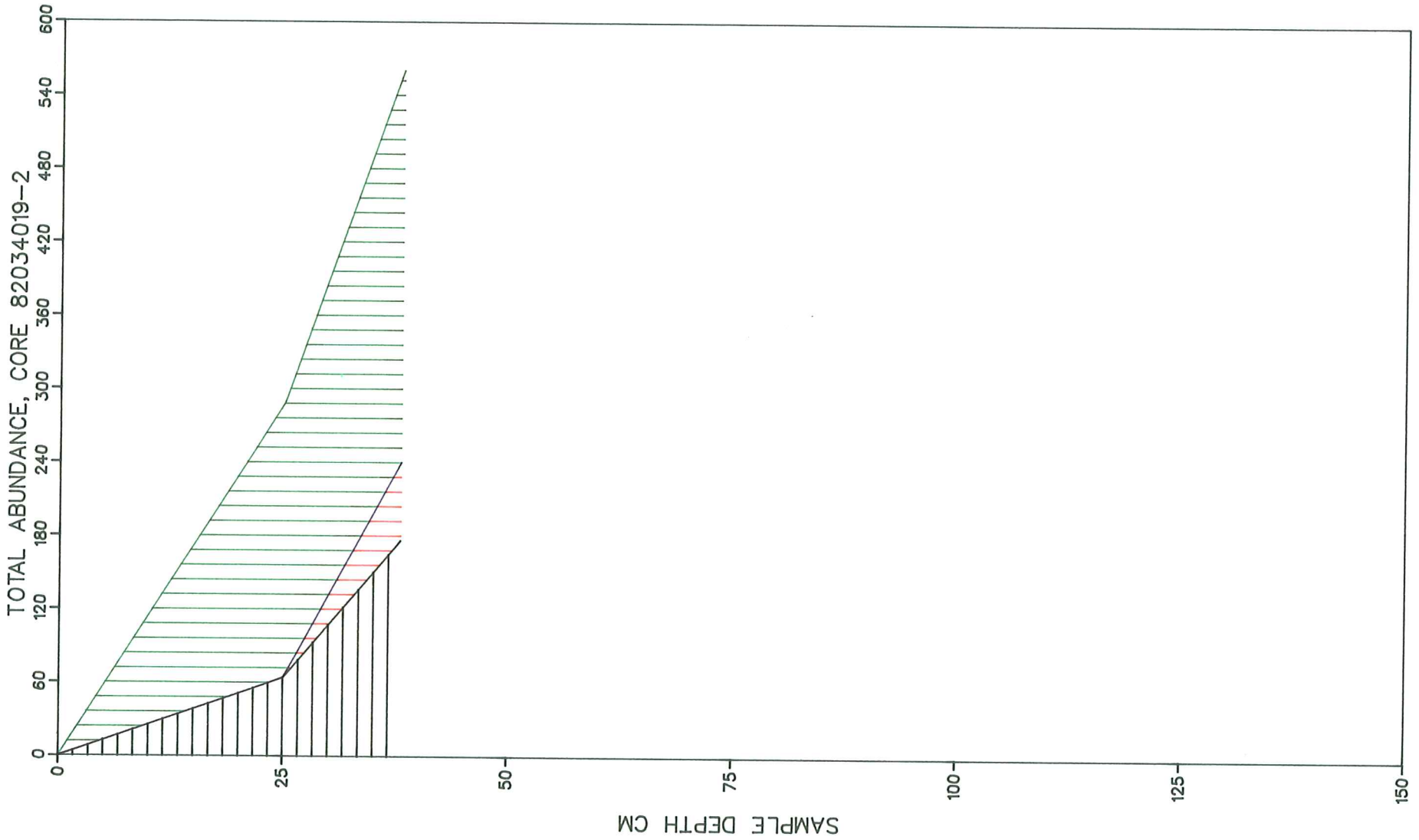
E. excavatum

N. labradoricum

I. helense

C. reniforme

(C)



- E. excavatum
- I. helena
- N. labradoricum
- C. reniforme

Appendix 4

82034020

Gravity Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

INTERVAL DEPTH(CM)	0	5	10	15	19
INTERVAL WIDTH(CM)	4	2	3	2	1
NET WEIGHT (G)	38.0	33.0	47.8	32.6	39.0
SPLIT NUMBER	4	8	16	2	2

BEATUMINO SUBMINUTERA					
TOTAL	300	123	211	130	126
DIVERSITY	2.71	1.05	1.90	1.94	1.36

GENUS / SPECIES PERCENTAGES

ADERCOTRYMA	CELOMERATA	3.68			
ASTRODONTOM	CALLOUAYI		2.37	1.54	
CASSIDULINA	LAEVIGATA	.79	8.06	10.77	
CASSIDULINA	PERLEFORME		16.59	21.54	8.73
CYRTICIDES	LORATHULUS	.25	14.22	3.83	3.17
CYRTOPROSTOMIODES	JEFFREYSI				
CYRTOPROSTOMIODES	SCOTTULUS	.26	5.74		
DENDROPHRYA	ARBORESCENS	1.32			
ELPHIDIUM	EXCAVATUM CLA		6.16	5.15	12.70
FISSURINA	LUCIDA	.25			
FISSURINA	HARCTINATA			1.54	.79
GLOMOSPTERA	ACROSTALYS	.26			
HYPERAMMUNA	ELONGATA	25.50	60.22		
HYPERAMMUNA	CYLINDRICA	0.05	1.56		
ISLANDIJELLA	HELLENAE		33.86	34.62	52.70
ISLANDIJELLA	NORCROSSI		1.90	2.31	3.97
MELONIS	ZANDAMAE		6.64	.77	.79
NONIONELLINA	LARRABOCCICA			.77	
ODOLINA	CANDORRA		.47		
ODOLINA	SQUAMIOSUSILCA		.47		
PERISTINA	DIDERA	.25			
HAYNASENA	TRITICULAE				1.59
PSAMMOSPHAERA	FUSCA	1.32			
PULLENIA	PSIDENSIS		.47	.77	
OUTNOULUCULINA	VILCARIS			.77	
REOPHAX	CYLINDRICA				.79
REOPHAX	FUSIFORMIS	2.00	1.54		
REOPHAX	CUTTLE	3.68			
KHARDAMMUNA	SCARPA	.53			
ROBERTINOTIDIC	CHAPLOTTENSTI				.79
SACCAMMUNA	ATLANTICA	.53			
SACCAMMUNA	SPHAGNICA	.53	25.00		
SACCORHIZA	KAMOSA	1.58			
STELICOSIOMOLINA	CRISTEFLANDICA			.77	1.59
TFYTHLARIA	CARLANDI	7.37			
TRIFARTINA	FLUMENS		.47		
TRILOCULINA	TRITHORA			.77	
TRICHAMMUNA	GIORIGERINIFER	2.11			
TRICHAMMUNA	MACROSCENS	3.92			
TRICHAMMUNA	NANA	25.24			
TRICHAMMUNA	NITIDA	4.05	.79		
UMIGERINA	CANARTENSTIC	.25			
FUSPENKOLINA	FUSIFORMIS		1.42	13.08	3.17
STATHERTHIA	CINCAVA		1.90		

ERRATA					
TOTAL	21	1	117	55	22
DIVERSITY	0.45	0.00	0.71	0.34	0.18

CRUISE: 20024
 LATITUDE: 56.7433

STATION: 020
 LONGITUDE: -59.9983

SAMPLE TYPE: GRAVITY
 WATER DEPTH: 690
 PAGE: 2

INTERVAL DEPTH(CM)	24	50	75	100	125
INTERVAL WIDTH(CM)	3	5	5	5	5
NET WEIGHT(G)	44.8	52.0	47.0	46.0	49.0
SPLIT NUMBER	4	8	16	2	2

BENTHONIC FORAMINIFERA					
TOTAL	112	42	18	19	25
DIVERSITY	1.79	1.12	1.31	1.25	1.16

GENUS / SPECIES		PERCENTAGES			
ASTRONOTUM	CALLOWAYI	5.92	2.38		1.18
CASSIDULINA	DEMIERNE	19.62	57.14	22.22	57.89
CARTOIDEA	LORATULUS	1.22			
CYCLOGYRA	INVOLVENS				
FLORIDIUM	EXCAVATUM CIA	19.08	30.95	33.33	5.26
EPISTOMINELLA	TAKAYANAGIT		2.38		
EPISTOMINELLA	VITREA	1.32			
FISSURINA	MARGINATA	0.66			
ISLANDIELLA	HELENAE	39.47	2.38	11.11	5.25
ISLANDIELLA	MERCURIS	1.07			
PROTIFLORIDIUM	NANUM	3.29			
PHLENTIA	SOLENEIS	0.66			
PYROD	MITCHELLSONI				
QUINQUELOCULINA	MULCADA		2.38		3.53
REURHAX	DENTALIFORM				1.18
REURHAX	QUITTEP				5.25
TRILOCULINA	TRICARINATA	3.29			
EUPHENKINA	EUSTEOMIA	4.61	2.38	33.33	21.05
STATMORPHIA	CONCAVA				2.38

EOKAM?					
TOTAL	29				2
DIVERSITY	.15				.69

GENUS / SPECIES		PERCENTAGES	
GLORICERINA	PHLENTES	2.45	
GLORICERINA	QUINQUELOBA		50.00
NEOLITHOIDEA	PACHYDERMA ST	95.55	50.00

CRUTCH: 32.34
LATITUDE: 15.7442

STATION: 070

SAMPLE TYPE: GRAVITY

PAGE: 3

LONGITUDE: -59.9882

WATER DEPTH: 590

INTERVAL DEPTH (CM) 14.5
INITIAL DEPTH (CM) 4
WET WEIGHT (G) 51.0
DRIE WEIGHT (G) 2

CONTENTS CONTAINED
TOTAL DIVERSITY 1.49

GENUS / SPECIES PERCENTAGES

ASTRONOTUS CALLOWAYI 4.62
BUCCELLA EPTERIDA 1.72
CASSIDULINA RENTONKRE 50.66
CIBICIDIS EOPATULUS 3.54
ELPHIDIUM MYCANTHUM CLA 12.72
EPTERIDA TAKAYANAGI 1.72
EPTERIDA VITREA 1.72
ISLANDICELLA HELENAL 1.72
PSEUDOPHYLLIDIA VANDANAL 3.54
QUINQUELOCULINA VULGARIS 3.54
RUBRILABRATA RUSTICATA 7.27

FORMS
TOTAL 3
DIVERSITY 1.00

GENUS / SPECIES PERCENTAGES
NEOGLOROPHILINA RACHYDEKMA ST 100.00

CORE: 92034
LATITUDE: 44.7423

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 1

LONGITUDE: -89.9989

WATER DEPTH(M): 690

DEPTH (CM)	ADREOCOTRYMA GLOMERATA	ASTRONOMYON CALICWAYI	BUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME
0	2.68			.79	
10		2.37		8.06	16.59
15		1.54		10.77	21.54
16					8.73
24		5.92			18.42
30		2.88			57.14
70					22.22
100					57.89
120		2.18			69.41
141		2.82	1.42		60.00

CORR: 02024
LATITUDE: 46.7432

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 2

LONGITUDE: -10.9983

WATER DEPTH(M): 690

DEPTH (CM)	CTALICTYPS LORATILUS	CERIBOSTOMOIDES LORRELYST	CERIBOSTOMOIDES SCITULUS	CYCLOPSYRA INVOLVENS	DENDROPHRYA ARBORESCENS
0	.26		.26		1.32
5		.72	6.25		
10	14.22				
15	7.05				
10	2.17				
24	1.52				
50					
75					
100					
125				1.18	
141	2.66				

LATITUDE: 65.7433

LONGITUDE: -59.4983

WATER DEPTH(M): 620

DEPTH (CM)	SCYTHIDUM EXCAVATUM CLAVATA	EPISTOMINELLA TAKAYANAGII	EPISTOMINELLA VITREA	FISSURINA LUCTOA	FISSURINA MARGINATA
0				.26	
5					
10	0.14				
15	1.15				1.54
10	12.76				.79
24	10.85		1.32		.66
50	20.05	2.39			
75	32.32				
100	5.91				
125	11.76				
147	12.72	1.82	1.82		

LATITUDE: 56.7423

LONGITUDE: -89.9983

WATER DEPTH(M): 590

DEPTH (CM)	CLYDORDEZ/ CORDIALIS	HYPERAMMINA LONGATA	HYPERAMMINA CYLINDRICA	ISLANDIELLA HELENAE	ISLANDIELLA NORCROSSI
0	0.24	23.33	3.95		
5		53.25	1.56		
10				38.86	1.90
15				34.52	2.31
19				62.70	3.97
24				39.47	1.97
50				2.38	
75				11.13	
100				5.26	
125				4.71	
141				1.82	

LATITUDE: 56.7412

LONGITUDE: -52.9384

WATER DEPTH(M): 590

DPTH (CM)	NEPTUNYS ZYGOMMATI	WINTONELLINA LABRADORICA	DOLINA CAUDIGERA	DOLINA SQUAMOSUSULCATA	PELOSINA DIDERA
0					.126
5					
10	.66		.47	.47	
15	.77	.77			
20	.72				
24					
50					
75					
100					
125					
141					

CODE: 12024
LATITUDE: 44.7442

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 6

LONGITUDE: -59.0983

WATER DEPTH(M): 690

DEPTH (CM)	PENTACEPHALUM HAMM	RAYNASINA ORBICULARIS	PSAMMOSPHAERA FUSCA	PSEUDOPOLYMORPHINA NOVANGLIAE	PULLENIA OSLOENSIS
0			1.92		
5					
10					.47
15					.77
19		1.59			
24	2.32				.66
50					
75					
100					
125					
141				3.64	

CORR: 10.284
LATITUDE: 44.7422

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 7

LONGITUDE: -59.9983

WATER DEPTH(M): 690

DEPTH (CM)	BYRDG WTL - AMSONT	OPHIOURELLA DUMITINA VULGARIS	REOPHAX CYLINDRICA	REOPHAX DENTALINIFORMIS	REOPHAX FUSIFORMIS
0					5.00
5			.78		1.56
10					
15		.77			
19					
24					
50		2.38			
75					
100		1.25			
125	2.52			1.18	
141		2.64			

CHEF: H. P. 24
LATITUDE: 56.7423

STATION: C20

SAMPLE TYPE: GRAVITY

PAGE: 8

LONGITUDE: -59.9963

WATER DEPTH(M): 690

DEPTH (CM)	SCYTHAV GUTTIFER	SACCAMMINA SCAPRA	ROBERTINOIDES CHARLOTTENSIS	SACCAMMINA ATLANTICA	SACCAMMINA SPHAERICA
0	2.45	.53		.53	.53
5					25.00
10					
15					
19			.79		
24					
50					
75					
100	5.25				
125					
141					

LATITUDE: 65.7432

LONGITUDE: -59.9983

WATER DEPTH(M): 690

DEPTH (CM)	SACCHARITA PARVA	SYLICOSTOMYLINA GREENLANDICA	TEXTULARIA EARLANDY	TRIFARINA FLUENS	TRILOCULINA TRICARINATA
0	1.59		7.37		
5					
10				.47	
15		.77			
10		1.59			
24					3.29
30					
75					
100					
125					
141					

DEPTH (CM)	TROCHAMMINA TRIPHYLLA	TROCHAMMINA CIRRIGERIFORMIS	TROCHAMMINA MACRESCENS	TROCHAMMINA NANA	TROCHAMMINA NITIDA
0		2.11	1.32	28.16	6.05
5					.78
10					
15	.77				
20					
24					
50					
75					
100					
125					
141					

CODE: 02094
LATITUDE: 44.7433

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 11

LONGITUDE: -89.9983

WATER DEPTH(M): 690

DEPTH (CM)	HYALINELLA CAMARINENSIS	EUSENKINA RUSTIFORMIS	STAINEROTHIA CONCAVA	GLOBIGERINA BULLOIDES	GLOBIGERINA FALCONENSIS
0	0.21			3.23	
5					
10		1.42	7.90	9.40	1.71
15		13.09		1.82	3.64
20		3.17			
24		4.63		3.45	
50		2.30			
75		33.33			
100		21.05			
125		4.71	2.20		
141		7.27			

CORR: 92524
LATITUDE: 46.7422

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 12

LONGITUDE: -92.9983

WATER DEPTH(M): 690

DEPTH (CM)	NEOGLORQUADRINA QUINQUELOBA	NEOGLORQUADRINA PACHYDERMA SINISTRAL	NEOGLORQUADRINA PACHYDERMA DEXTRAL
0		97.10	9.58
5		110.10	
10	4.27	81.20	2.62
15		92.72	1.92
20	4.34	95.45	
25		91.55	
50			
75			
100			
125	5.00	80.00	
140		100.00	

CRUISE: 22034
 LATITUDE: 36.7423

STATION: 020
 LONGITUDE: -80.9983

SAMPLE TYPE: GRAVITY
 WATER DEPTH: 690
 PAGE: 1

INTERVAL DEPTH(CM) 0 5 10 15 19
 INTERVAL WIDTH(CM) 4 5 2 2 1
 NET HEIGHT (C) 39.0 38.0 47.8 32.8 39.0
 SPLIT NUMBER 4 8 16 2 2

BENTHONIC SPIDERMITEFA
 TOTAL 300 120 211 130 126
 DIVERSITY 2.21 1.01 1.00 1.04 1.36

GENUS & SPECIES

COUNTS

ADERCOPTERYMA	CLOMERATA	14			
ASTRODONTOMYMA	CALIDONAMI		8	2	
CASSIDULINA	LAEVIGATA	3	17	14	
CASSIDULINA	SEMIGRANA		25	28	11
CYRTOCYBES	LORATULUS	1	30	5	4
CYTRROSTOMYDUS	LEPERIUS				
CYTRROSTOMYDUS	SCITHUS	1			
DENDROTHELMA	APRODICTENS	1			
ELPHIDIUM	CYCAVATUM CIA		12	8	16
FISSURINA	LUCIDA	1			
FISSURINA	MARGINATA			2	1
GLOMOSPIRA	CORDALIS	1			
HYPERAMMINA	FINIGATA	27			
HYPERAMMINA	CYLINDRICA	24			
ISLANDITELLA	ZELENAC		22	45	70
ISLANDITELLA	MORCROSSI		4	3	5
MELONIS	ZANZAMAI		14	1	1
MONITONELLINA	LARRADONICA			1	
ODIINA	CAUDIGERA		1		
ODIINA	SQUAMISQUILICA		1		
PELOSTMA	DIDERA	1			
HAYNASMA	ORICULARE				2
PSAMMOSQUATRA	FUSCA	1			
PULLENIA	OSLYGASTIS		1	1	
QUINQUELUCULINA	VILCARTIS			1	
REPHAY	CYLINDRICA				1
REPHAY	FUSIFORMIS	10			2
REPHAY	OUTTIERI	14			
RHARDAMMINA	SCARPA	2			
ROBERTINOTUS	CHARLOTTESTIS				1
SACCAMMINA	ATLANTICA	2			
SACCAMMINA	SPHAGNICA	2			32
SACCORHIZA	RAMOSA	5			
SILICOSPLOMULINA	GREENLANDICA			1	2
TEXTULARIA	EARLANDI	28			
TRIFARTIA	ELIENS		1		
TRILUCULINA	TOTHEIRA			1	
TROCHAMMINA	GELBIGERINIA	8			
TROCHAMMINA	MACROSCENS	5			
TROCHAMMINA	NANA	107			
TROCHAMMINA	VITTA	23		1	
UVIGERTINA	CANADICENSIS	1			
FURCENKONIA	EUSTROPHYS		3	17	4
STATNEORTHIA	CONCAVA		4		

SPRAME
 TOTAL 31 117 65 22
 DIVERSITY 1.44 1.01 1.04 1.18

CRUISE: 12944
 LATITUDE: 06.7433

STATION: 020
 LONGITUDE: -59.9883

SAMPLE TYPE: GRAVITY
 WATER DEPTH: 690
 PAGE: 2

INTERVAL DEPTH (CM)	24	50	75	100	125
INTERVAL WIDTH (CM)	3	5	5	5	5
WIND LIGHT (CM)	44.0	52.0	47.0	46.0	49.0
SPLIT NUMBER	4	9	15	2	2

BENTHONIC FORAMINIFERA

TOTAL	1.2	42	18	10	88
DIVERSITY	1.70	1.13	1.21	1.25	1.16

GENUS / SPECIES

COUNTS

ASTRODONTINA	CALDWAYI	0	1		1
CASSIDULINA	RECTIFORMIS	20	24	4	59
CYPRIDINAE	FORATULUS	2			
CYCLOGYRA	INVOLVENS				1
ELPHIDIUM	EXCAVATUM CIA	20	13	5	10
EPISTOMINELLA	TAKAYANAGIT		1		
EPISTOMINELLA	VITREA	2			
FISSURINA	MARGINATA	1			
ISLANDIELLA	MELLENAT	5	1	2	4
ISLANDIELLA	NOBODOSI	3			
PROTIELPHIDIUM	NANUM	5			
PULLENIA	DELTOIDES	1			
PYRRO	WILLIAMSONI				3
QUINQUELOCULINA	VULGARIS		1		1
REDDHAY	DENTALINIFORM				1
REDDHAY	CUTTLEFF				1
TITLLOCULINA	TROCANINATA	8			
EUPSEUKOINA	ENSIFORMIS	7		6	4
STANFORTHIA	CONCAVA		1		2

FORAM?

TOTAL	20				2
DIVERSITY	.18				.69

GENUS / SPECIES

COUNTS

GLORIOBERTINA	QUILLETDES	1			
GLORIOBERTINA	QUINQUELOCULA				1
MEGALOBROTOMARETINA	PACHYDREMA ST	20			1

CRUISE: R2034
LATITUDE: 35.7492

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 3

LONGITUDE: -82.0982 WATER DEPTH: 690

INTERVAL DEPTH(CM) 14
INTERVAL WIDTH(CM) 4
WET WEIGHT(G) 11.0
SPITT NUMBER 2

PHYLUM: CILIOPHORA
TOTAL 48
DIVERSITY 2.49

GENUS / SPECIES

COUNTS

ASTRONOTON	CALDWAYI	1
RUCCELLIA	ERICIDA	1
CASSIDINIINA	GENICORAE	22
CYPRIDIDS	LORATHILUS	2
ALPHIDIUM	EXCAVATIUM CLA	7
EPITOMINELLA	TAKAYANAGII	1
EPITOMINELLA	VITREA	1
ISLANDILLA	HALLAI	1
PSEUDOPHYLLIDIA	NANOVANCLIAE	2
QUINQUELOCULINA	VILGABIS	2
FURSENIINA	EUSTORNIS	4

COPULA

TOTAL 3
DIVERSITY 1.00

GENUS / SPECIES

COUNTS

NEGIROPHORA	PACHYDERMA ST	3
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CORE: 82034
LATITUDE: 54.7433

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 1

LONGITUDE: -69.9983

WATER DEPTH(M): 696

DEPTH (CM)	ADFRONTERYMA GLONERATA	ASTRUMINION CALLOWAYI	SUCCELLA FRIGIDA	CASSIDULINA LAFVIGATA	CASSIDULINA RENIFORME
0	14			3	
5					
70		4		17	35
15		2		14	28
39					11
24		9			28
20		1			24
75					4
100					11
125		1			59
141		1	1		33

CORR: 2234
LATITUDE: 44.742N

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 2

LONGITUDE: -69.9983

WATER DEPTH(M): 690

DEPTH
(CM) CTRICIDES
LBRATULUS

CECIBROSTOMOIDES
JOFFREYSI

CECIBROSTOMOIDES
SCITULUS

CYCLOGYRA
INVILVENS

DENDROPHRYA
ARBORESCENS

0 1
5
10 2
15 4
10 4
24 2
50
75
100
125
141 2

1

8

5

1

DATE: 5/2/84
LATITUDE: 66.7452

STATION: 02L

SAMPLE TYPE: GRAVITY

PAGE: 3

LONGITUDE: -59.9983

WATER DEPTH(M): 690

DEPTH (CM)	ELCHERIUM EXCAVATUM CLAVATA	EPITOSTOMINELLA TAKAYANAGIT	EPITOSTOMINELLA VITREA	FISSURINA LUCIDA	FISSURINA MARGINATA
0				1	
5					
10	13				
15	0				2
18	14				1
24	20		2		1
50	13	1			
70	6				
100	1				
120	10				
141	7	1	1		

CROSS: 82624
LATITUDE: 26.7492

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 4

LONGITUDE: -59.9983

WATER DEPTH(M): 690

DEPTH (CM)	CLONISOTHA GORDIALIS	HYPERAMMINA ELONGATA	HYPERAMMINA CYLINDRICA	ISLANDIELLA HELENAE	ISLANDIELLA NORCROSSI
0	1	97	94		
5		91	2		
10				92	4
15				45	3
30				79	5
24				60	3
50				3	
75				2	
100				1	
125				4	
141				1	

CORR: 80074
LATITUDE: 44.7483

STATION: 090

SAMPLE TYPE: GRAVITY

PAGE: 5

LONGITUDE: -99.9989

WATER DEPTH(M): 690

DEPTH (CM)	NELOSIS ZANZIBAR	MONTEGNOLLINA LABRADORICA	COLINA CAUDIGERA	COLINA SQUAMOSOSULCATA	PELOSINA DIDERA
0					1
5					
10	16		1	1	
15	1	1			
19	1				
24					
50					
75					
100					
125					
141					

CORR: 12036
LATITUDE: 46.7422

STATION: 126

SAMPLE TYPE: GRAVITY

PAGE: 6

LONGITUDE: -59.9983

WATER DEPTH(M): 590

DEPTH (CM)	PHYLLOPORUM NANUM	HAYNASENA ORBICULARE	PSAMMOSPHAERA FUSCA	PSEUDOPOLYMORPHINA NOVANGLIAE	PULLENIA OSLOENSIS
0			5		
5					
10					1
15					1
30		2			
24					1
50					
75					
100					
125					
141				2	

CORR: 12034
LATITUDE: 45.7482

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 7

LONGITUDE: -99.9989

WATER DEPTH(M): 690

DEPTH (CM)	BYRGG MILIT/ASNT	QUINQUELOCULINA VULGARIS	REOPHAX CYLINDRICA	REOPHAX DENTALINIFORMIS	REOPHAX FUSIFORMIS
0					19
4			1		2
30					
15		1			
10					
24					
50		1			
75					
100		1			
125	2			1	
141		2			

LATITUDE: 44.7489

LONGITUDE: -80.9989

WATER DEPTH(M): 690

DEPTH (CM)	BRIDGMAN GUTTIFERA	RHARDAMMINA SCARPA	ROBERTINOIDES CHARLOTTENSIS	SACCAMMINA ATLANTICA	SACCAMMINA SPHAERICA
0	14	2		2	2
5					32
10					
15					
19			1		
24					
30					
75					
100	1				
125					
141					

LATITUDE: 55.7433

LONGITUDE: -13.9982

WATER DEPTH(M): 520

DEPTH (CM)	SACCORHIZA RAMOSA	SILICOSSIGMILLINA GRONLANDICA	TEXTULARIA EARLANDI	TRIFARINA FLUENS	TRILOCULINA TRICARINATA
0	4		28		
5					
10				1	
15		3			
19		2			
24					5
50					
70					
100					
125					
141					

CORE: 8234
LATITUDE: 55.7452

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 10

LONGITUDE: -59.9983

WATER DEPTH(M): 690

DEPTH (CM)	TROCHAMMINA TROPICA	TROCHAMMINA ELIBERTINIFORMIS	TROCHAMMINA MACRASCENS	TROCHAMMINA NANA	TROCHAMMINA NITIDA
0		6	6	107	23
5					1
10					
15	1				
19					
24					
56					
75					
100					
125					
140					

CORE: 32024
LATITUDE: 55.7452

STATION: 020

SAMPLE TYPE: GRAVITY

PAGE: 11

LONGITUDE: -59.9983

WATER DEPTH(M): 690

DEPTH (CM)	UMTIGERINA CANARIENSIS	ELLENBERGIA RUSTICIFORMIS	STAINBODYPHIA CONCAVA	GLOBIGERINA BULLOIDES	GLOBIGERINA FALCONENSIS
0	1			1	
5					
11		3	4	11	2
16		17		1	2
19		4			
24		7		1	
50		1			
72		5			
100		4			
121		4	2		
141		4			

LATITUDE: 66.7422

LONGITUDE: -59.9953

WATER DEPTH(M): 690

DEPTH
(CM) 0100100400NEGLORROQUADRINA
PACHYDERMA SINISTRALNEGLORROQUADRINA
PACHYDERMA DEXTRAL0
5
10
15
20
24
50
75
100
125
14127
1
05
11
21
20

3
23
4
1

Appendix 5

82034031

IKU Grab

LATITUDE: 54.9164

LONGITUDE: -41.1998

WATER DEPTH(M): 265

DIRT ASTEROIDIN
(CM) CALLEBAYT

MUSCILLA
PISCINA

CERICIDES
LORATHILIS

NONION
GRATELOUPT

REGPHAY
FUSIFORMIS

10.00

2.00

12.50

12.50

25.00

STATION: 021104LR

SAMPLE TYPE: IKU-GRAB

PAGE: 2

LATITUDE: 34.0768

LONGITUDE: 143.3834

WATER DEPTH(M): 265

OTU: TRICHARITINA
(CN) NAME

OTU: BRONHARITINA
RACHYDEKA SINISTRAL

0.000

0.000

LATITUDE: 44.4164

LONGITUDE: -61.1333

WATER DEPTH(M): 265

DIATOMS
(CAN. GULLOFA)

PHOCILLA
FUSIFORMIS

CIBICIDES
LORATUS

MONTON
GRATELOUPT

REOPHAX
FUSIFORMIS

1

2

1

1

2

Appendix 6

82034035

IKU Grab

LATTITUDE: 44.0106

LONGITUDE: -52.1500

WATER DEPTH: 275

INTERVAL DEPTH(CM)
INTERVAL WIDTH(CM)0
5

BENTHONIC QUANTITIES

TOTAL 149
DIVERSITY 2461

GENUS / SPECIES

PERCENTAGES

ADERCHYMYA	CLOMOCATA	25.00
ASTROGOMPHI	CALLICHAET	6.66
POLIVINA	PSEUDOPUNCTAT	6.66
RUCCELLA	FRYGIDA	2.69
CIRRICIFER	LOBRATHIUS	4.01
CYBROCTENOIDES	CRASSIMARCO	6.66
CYBROCTENOIDES	LEPTELYST	6.66
FLORIDIUM	CYCAMATHUM CIA	6.66
HYPERAMMIA	ELONGATA	7.43
HYPERAMMIA	CYLINDRICA	4.72
HYPERAMMIA	FRAGILIS	6.66
ISLANDICELLA	HELENAT	1.34
MELARTS	ZAMBAMAI	6.66
PSEUDOPOLYDORUM	ROVANCEIAT	6.66
REDDHAY	CYLINDRICA	6.66
REDDHAY	EUSITONICUS	12.01
REDDHAY	CHITTITEL	2.69
SALICOSCOMULINA	GREENLANDICA	6.66
TEXTULARIA	AGGLUTINANS	1.34
TEXTULARIA	TROQUATA	4.01
TRIFARINA	ELIENS	2.69
TRUCHAMINA	MACRISOMNS	1.34
TRUCHAMINA	MANA	2.69
TRUCHAMINA	MITTEA	2.69
TRUCHAMINA	QUADRIORA	2.69
EUPSEKOTIA	GHSTTONICUS	6.66

EUKAID

TOTAL 3
DIVERSITY 400

GENUS / SPECIES

PERCENTAGES

NEOCYBROCHORDINA RACHYDEMA ST 100.00

LATITUDE: 24.0058

LONGITUDE: -82.1580

WATER DEPTH(M): 275

DITH AJEBOCYMA
(CM) GLOMATAASTORNIYON
CALLOMAYIRULIVIMA
PSCUDOPUNCTATARUCCELLA
FRIGIDACIBICIDES
LOBATULUS

0 21.00

.60

.60

2.00

4.05

LATITUDE: 34.0115

LONGITUDE: -82.0580

WATER DEPTH(M): 275

DEPTH DISTRIBUTION
(CM) CRAB SEASON

CYBODONTIDIA
JERREYI

ALPHIDUM
EXCAVATUM CLAVATA

HYPERAMMINA
ELONGATA

HYPERAMMINA
CYLINDRICA

0 4.51

4.60

4.68

7.43

4.73

LATITUDE: 14° 00' N

LONGITUDE: 152° 15' W

WATER DEPTH(M): 275

DEPTH MYXOBOLYMPHINA
(CM) FRACILLIS

ISLANDIELLA
HELSMAR

MELONIS
ZAANDAMAS

PSEUDOBOLYMPHINA
NOVANGLIAE

REIDHAY
CYLINDRICA

0 .57

1.30

5.41

.52

.66

LATITUDE: 64.0504

LONGITUDE: -42.1490

WATER DEPTH(M): 270

DEPTH REEFRAY
(CM) RESIDUES

DIOPHAY
CONTENTS

SILICOSILOPILINA
GROENLANDICA

TEXTULARIA
ACCLUTINANS

TEXTULARIA
TORQUATA

0 12.51

2.68

5.41

1.35

4.05

DEPTH TROCHAMMINA
(CM) FLUENS

TROCHAMMINA
MACROSCOPUS

TROCHAMMINA
NANA

TROCHAMMINA
NITIDA

TROCHAMMINA
QUADRILORA

0 2.62

2.25

0.46

2.70

2.03

COUNTS: 2536
LATITUDE: 44.0004

STATION: 2010000

SAMPLE TYPE: TKJ-SRAB

PAGE: 1

LONGITUDE: -62.1501

WATER DEPTH: 278

INTERVAL DEPTH(CM) 0
INTERVAL WIDTH(CM) 5

RELATIVE COEFFICIENTS
TOTAL 140
DIVERSITY 2.67

GENUS / SPECIES		COUNTS
ADERCOPTERYMA	CLONOPATA	27
ASTROGONTER	CALLONAYI	1
BOLIVINA	PSEUDOPUNCTATA	1
BUCCELLIA	ERICIDA	3
CIPICIPES	LOPATELUS	6
CRIBRISTELETUS	CRASSIMOROS	1
CRIBRISTOMOTUS	LETEREYSI	1
FLORIDITHUS	EXCAVATUS CIA	1
HYPERAMMIMA	ELONGATA	41
HYPERAMMIMA	CYLINDRICA	7
HYPERAMMIMA	FRAGILIS	1
ISLANDTELLA	HELIOPAI	2
MELONYS	ZANDAMARA	2
PSEUDOPOLYDORUM	ANDRANOCLIAE	1
REORHAX	CYLINDRICA	1
REORHAX	EUSTROPHYS	20
REORHAX	OUTTLECK	3
STILICOSIOMMELTIA	GREENLANDICA	2
TEXTULARIA	ACCUITIFRONS	2
TEXTULARIA	TROQUATA	6
TRIFARIINA	ELIENS	3
TROCHAMMIMA	MACRESSENS	2
TROCHAMMIMA	IANA	16
TROCHAMMIMA	MITIDA	4
TROCHAMMIMA	QUADETIORA	3
FURCENKOWI	EUSTROPHYS	1

EXAMS
TOTAL 2
DIVERSITY 4.00

GENUS / SPECIES
NEOLORICOUADRIINA MAC HYDERINA ST 3

COUNTS

COUNTS

0000: 05.04

STATION: 1054019 SAMPLE TYPE: IKU-GEAR

PAGE: 1

LATITUDE: 44.4104

LONGITUDE: -62.1591

WATER DEPTH(M): 275

DPH AD-ACIDIPHYA
(CM) GLOBIFERA

ASTROBENTON
CALLOMAYI

BOUVIINA
PSEUDOPUNCTATA

BUCCELLA
FRIGIDA

CIRICIDES
LOBATULUS

0 07

1

4

3

6

LATITUDE: 44.5104

LONGITUDE: -62.1500

WATER DEPTH(M): 275

DEPTH CORRECTION
(CM) CLASSIFIEDCIRROSPINARIIDAE
(PERCENT)ELPHIDIUM
EXCAVATUM CLAVATAHYPERAMMINA
ELONGATAHYPERAMMINA
CYLINDRICA

0

1

3

2

11

7

LATITUDE: 34°49'07"

LONGITUDE: -122°15'50"

WATER DEPTH(M): 275

DPTH HYDROMYXINA
(CM) FRUCTUS

TSILANDICHA
HILINA

MELONTS
ZANDAMA

PSEUDOPOLYMORPHINA
NOVANGLIA

REPHAX
CYLINDRICA

0 1

2

3

1

1

DEPTH (CM) 010000

STICHOSIGMELLA
GRUENLANDICA

STICHOSIGMELLA
GRUENLANDICA

TEXTULARIA
AGGLUTINANS

TEXTULARIA
TORQUATA

010000

3

6

2

6

LATITUDE: 44.4100

LONGITUDE: -62.1500

WATER DEPTH(M): 275

ТРТЧ ТИТБАРИНА
(СР) ПИМЕН

ТРОЧАММИНА
#40P-SC-MS

ТРОЧАММИНА
МАНА

ТРОЧАММИНА
НИТИДА

ТРОЧАММИНА
QUADRILORA

0 0

2

14

4

3

Appendix 7

82034041

TWC-Trigger Weight Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

CRUISE: 82034
 LATITUDE: 64.4202

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: TWC

PAGE: 1

WATER DEPTH: 340

INTERVAL DEPTH(CM)	0	20	30
INTERVAL WIDTH(CM)	5	5	5
SPLIT NUMBER	1	2	1

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY	2.73	3.8	5.4
	2.23	.91	1.71

GENUS / SPECIES

PERCENTAGES

ADERCOTRYMA	GLUMERATA	42.47		
BOTELLINA	LABYRINTHICA	1.37		
BUCCELLA	EPYGIDA	1.37		
CASSIDULINA	RENIFORME	2.74		25.93
CIBICIDES	LORATULUS		5.26	
CRIBROSTOMOIDES	JEFFREYSI	4.11		
CRIBROSTOMOIDES	WIESNERI	5.48		
CYCLOGYRA	INVOLVENS	1.37		
EGGERELLA	ADVENA			3.70
ELPHIDIUM	EXCAVATUM		7.89	3.70
ELPHIDIUM	EXCAVATUM CLA	4.11		14.81
EPISTOMINELLA	VITREA			1.85
HYPERAMMINA	ELONGATA	1.37		
ISLANDIELLA	HELENAE		76.32	37.04
MARSPHELLA	ELONGATA	2.74		
MELONTIS	ZAANDAMAE	4.11	2.63	
NONIONELLINA	LABRADORICA	1.37	5.26	1.85
PULLENIA	OSIENSIS			7.41
RENPHAX	FUSIFORMIS	5.48		
SACCAMMINA	SPHAERICA	4.11		
SACCORHIZA	RAMOSA	9.59		
TEXTULARIA	EARLANDI	1.37		
TEXTULARIA	TORQUATA	4.11		
TRIFARINA	FLUENS		2.63	
TRICHAMMINA	NANA	1.37		
STAINFORTHIA	CONCAVA	1.37		3.70

FORAM2

TOTAL DIVERSITY	1	1
	.00	.00

GENUS / SPECIES

PERCENTAGES

NEOGLOBQUADRINA	PACHYDERMA SI	100.00	100.00
-----------------	---------------	--------	--------

CODE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 1

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH ADERCOTRYMA
(CM) GLOMERATA

BOSELLINA
LABYRINTHICA

BUCCELLA
FRIGIDA

CASSIDULINA
RENIFORME

CIBICIDES
LOBATULUS

0 42.47

1.37

1.37

2.74

20

5.26

30

25.93

CORE: R2034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 2

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DEPTH CRIEBROSTOMOIDES
(CM) JEFFREYSI

CRIEBROSTOMOIDES
WIESNERI

CYCLOGYRA
INVOLVENS

EGGERELLA
ADVENA

ELPHIDIUM
EXCAVATUM

0 4.11

5.48

1.37

20

7.89

30

3.70

3.70

COPE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 3

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DEPTH
(CM) ELPHIDIUM
EXCAVATUM CLAVATA

EPISTOMINELLA
VITREA

HYPERAMMINA
ELONGATA

ISLANDIELLA
HELENAE

MARSIPELLA
ELONGATA

0 4.11

1.37

2.74

20

76.32

30 14.81

1.85

37.04

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH MELONIS
(CM) ZAANDAMAENONIONELLINA
LABRADORICAPULLENIA
OSLOENSISREOPHAX
FUSIFORMISSACCAMMINA
SPHAERICA

0 4.11

1.37

5.48

4.11

20 2.63

5.26

30

1.85

7.41

CORE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 5

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DEPTH
(CM) SACCORHIZA
PAMOSA

TEXTULARIA
EARLANDI

TEXTULARIA
TORQUATA

TRIFARINA
FLUENS

TROCHAMMINA
NANA

0 9.59

1.37

4.11

1.37

20

2.63

30

CORE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 6

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH STAINFORTHIA
(CM) CONCAVA

NEOGLORQUADRINA
PACHYDERMA SINSTRAL

0 1.37

100.00

20

100.00

30 2.70

CRUISE: 82034
LATITUDE: 64.4209

STATION: 041
LONGITUDE: -62.4396

SAMPLE TYPE: TWC
WATER DEPTH: 340

PAGE: 1

INTERVAL DEPTH(CM)	0	20	30
INTERVAL WIDTH(CM)	5	5	5
SPLIT NUMBER	1	2	1

BENTHONIC FORAMINIFERA

TOTAL	73	38	54
DIVERSITY	2.23	.91	1.71

GENUS / SPECIES

COUNTS

ADERCOTRYMA	31		
BOTELLINA	1		
BUCCELLA	1		
CASSIDULINA	2		14
CIBICIDES		2	
CRIBROSTOMOIDES	3		
CRIBROSTOMOIDES	4		
CYCLOGYRA	1		
EGGIFRELLA			2
ELPHIDIUM		3	2
ELPHIDIUM	3		8
EPISTOMINELLA			1
HYPERAMMINA	1		
ISLANDIELLA		29	20
MAPSIPHELLA	2		
MELONIS	3	1	
NONIONELLINA	1	2	1
PULLENIA			4
REOPHAX	4		
SACCAMMINA	3		
SACCORHIZA	7		
TEXTULARIA	1		
TEXTULARIA	3		
TRIFARINA		1	
TROCHAMMINA	1		
STAINFORTHIA	1		2

FORAM2

TOTAL	1	1	
DIVERSITY	.00	.00	

GENUS / SPECIES

COUNTS

NEOGLOBQUADRINA	1	1	
PACHYDERMA SI			

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH ADERCOTRYMA
(CM) GLOMERATA

BOPELLINA
LABYRINTHICA

BUCCELLA
FRIGIDA

CASSIDULINA
RENIFORME

CIBICIDES
LOBATULUS

0 31

1

1

2

20

2

30

14

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPH (CM)	CRIBROSTOMOIDES JEFFREYSI	CRIBROSTOMOIDES WIESNERI	CYCLOGYRA INVOLVENS	EGGERELLA ADVENA	ELPHIDIUM EXCAVATUM
0	2	4	1		
20					3
30				2	2

CORE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 3

LATITUDE: 64.4203

LONGITUDE: -62.4395

WATER DEPTH(M): 340

DPTH ELPHIDIUM
(CM) EXCAVATUM CLAVATA

EPISTOMINELLA
VITREA

HYPERAMMINA
ELONGATA

ISLANDIELLA
HELENAE

MARSIPELLA
ELONGATA

0 3

1

2

20

29

30 8

1

20

CORE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 4

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH MELONIS
(CM) ZAANDAMAE

NONIONELLINA
LABRADORICA

PULLENIA
OSLOENSIS

REOPHAX
FUSIFORMIS

SACCAMMINA
SPHAERICA

0 3
20 1
30

1
2
1

4

4

3

CORE: 92034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 5

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH SACCORHIZA
(CM) RAMOSA

TEXTULARIA
EARLANDI

TEXTULARIA
TORQUATA

TRIFARINA
FLUENS

TROCHAMMINA
NANA

0 7
20
30

1

3

1

1

CORE: 82034

STATION: 041

SAMPLE TYPE: TWC

PAGE: 6

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

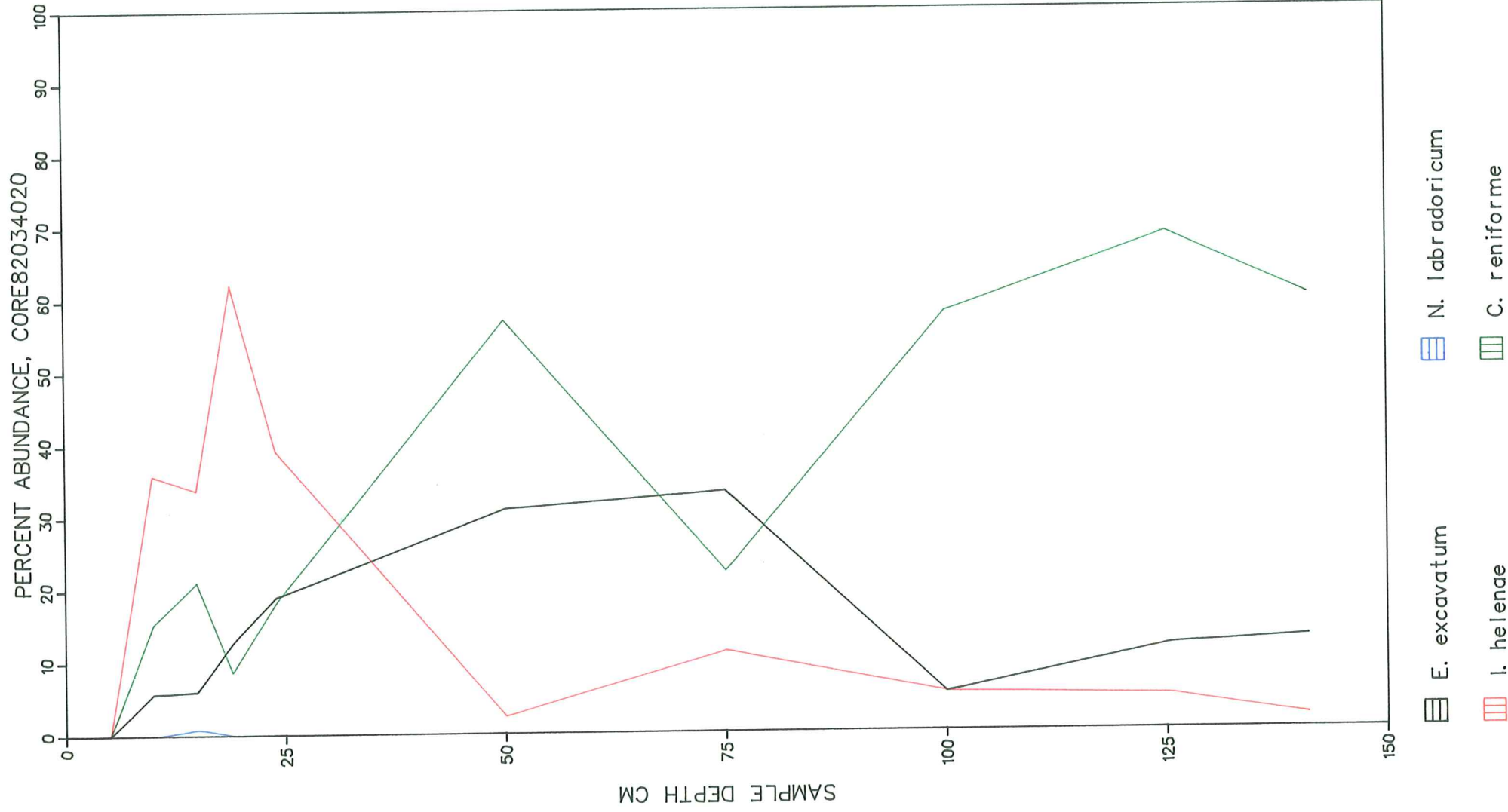
DPTH STAINFORTHIA
(CM) CONCAVA

NEOGLORBOQUADRINA
PACHYDERMA SINSTRAL

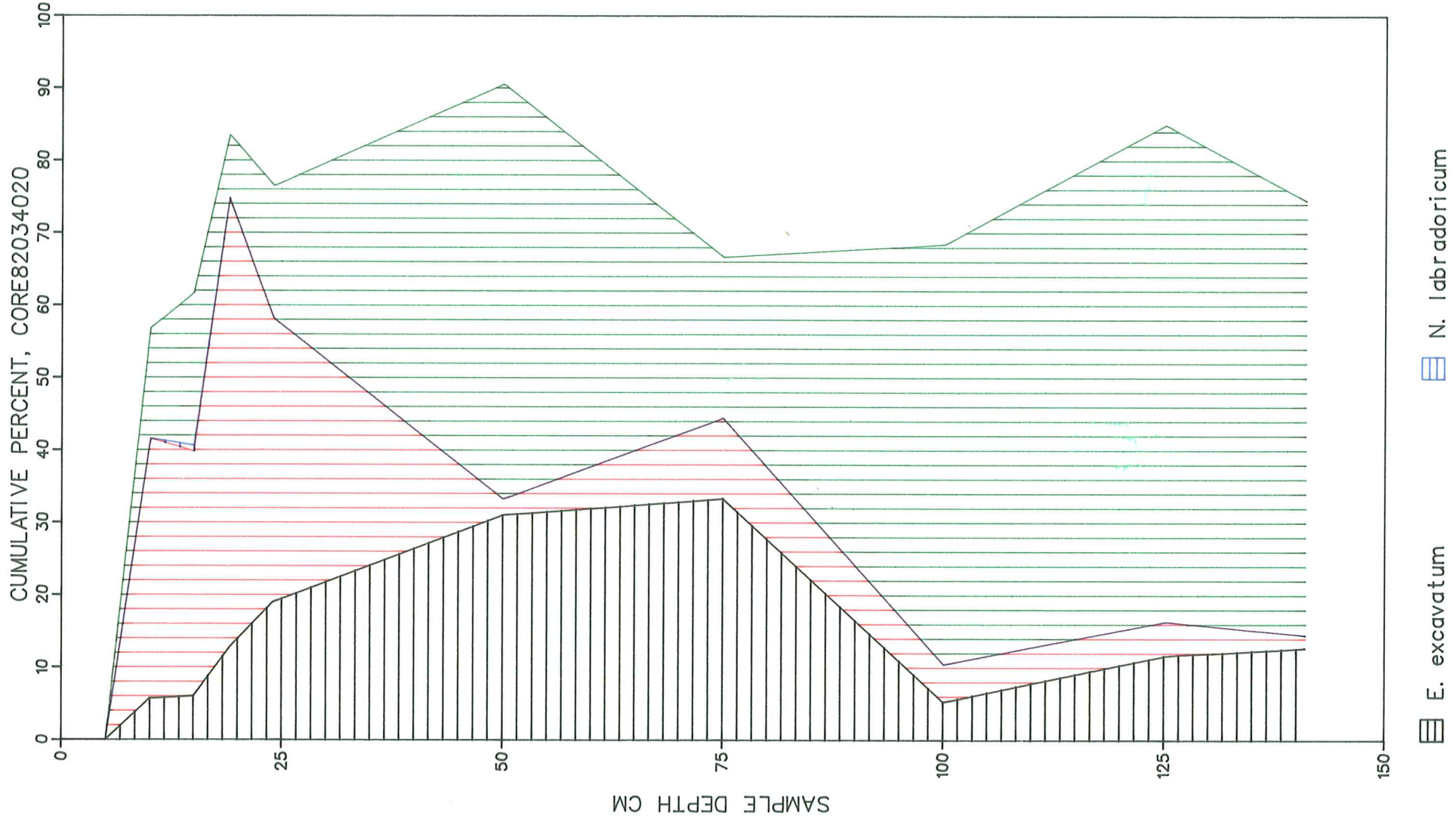
0	1
20	
30	2

1
1

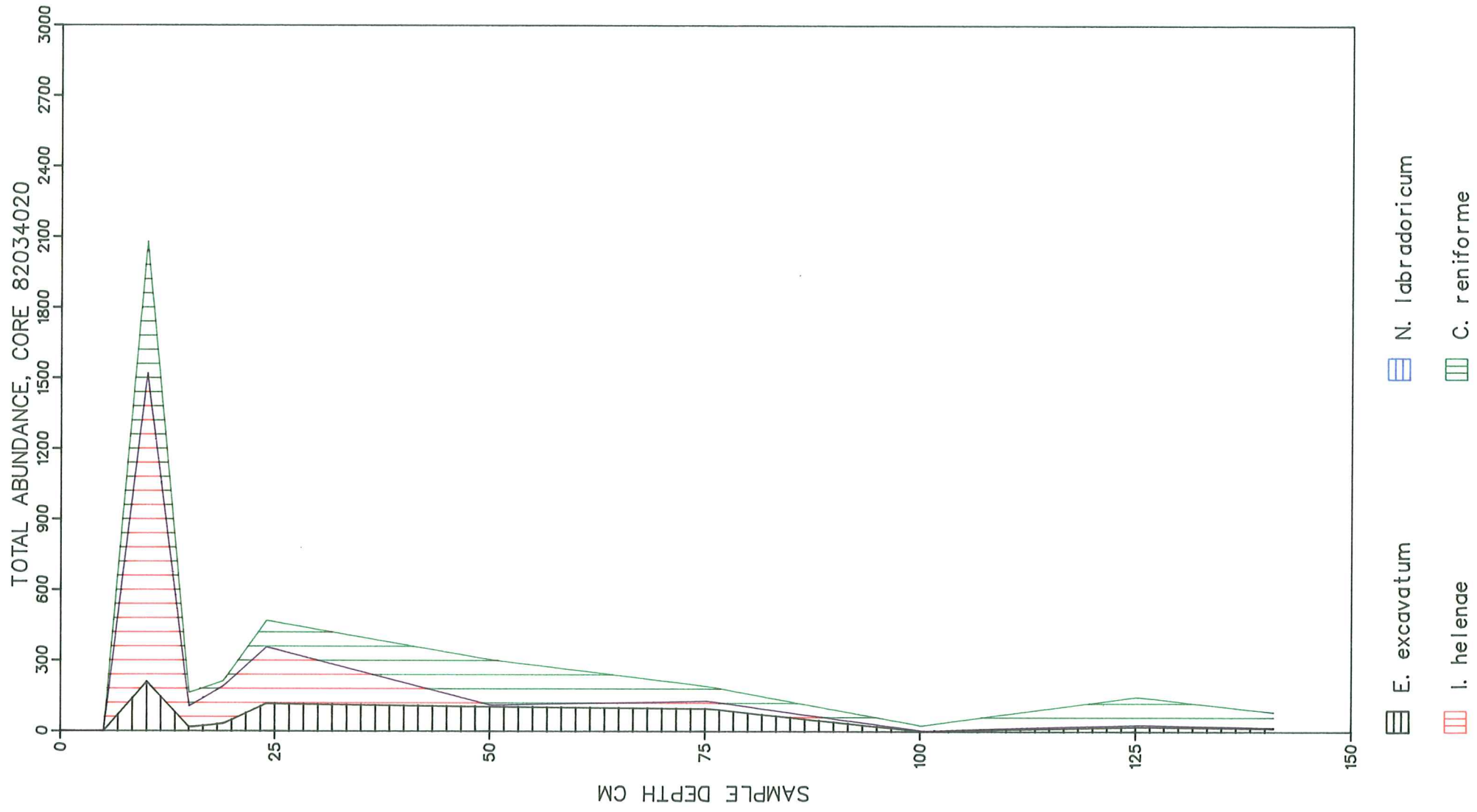
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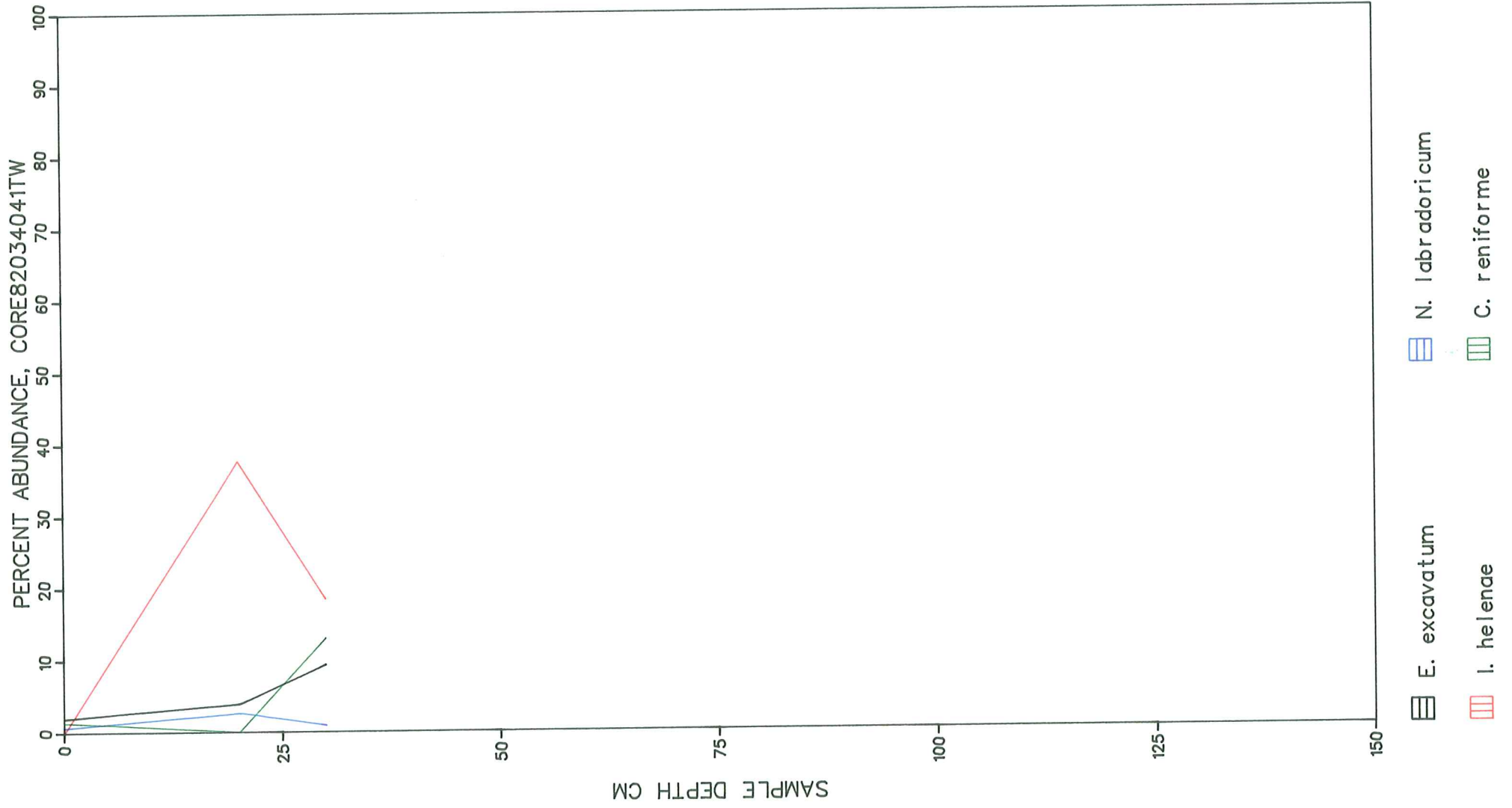
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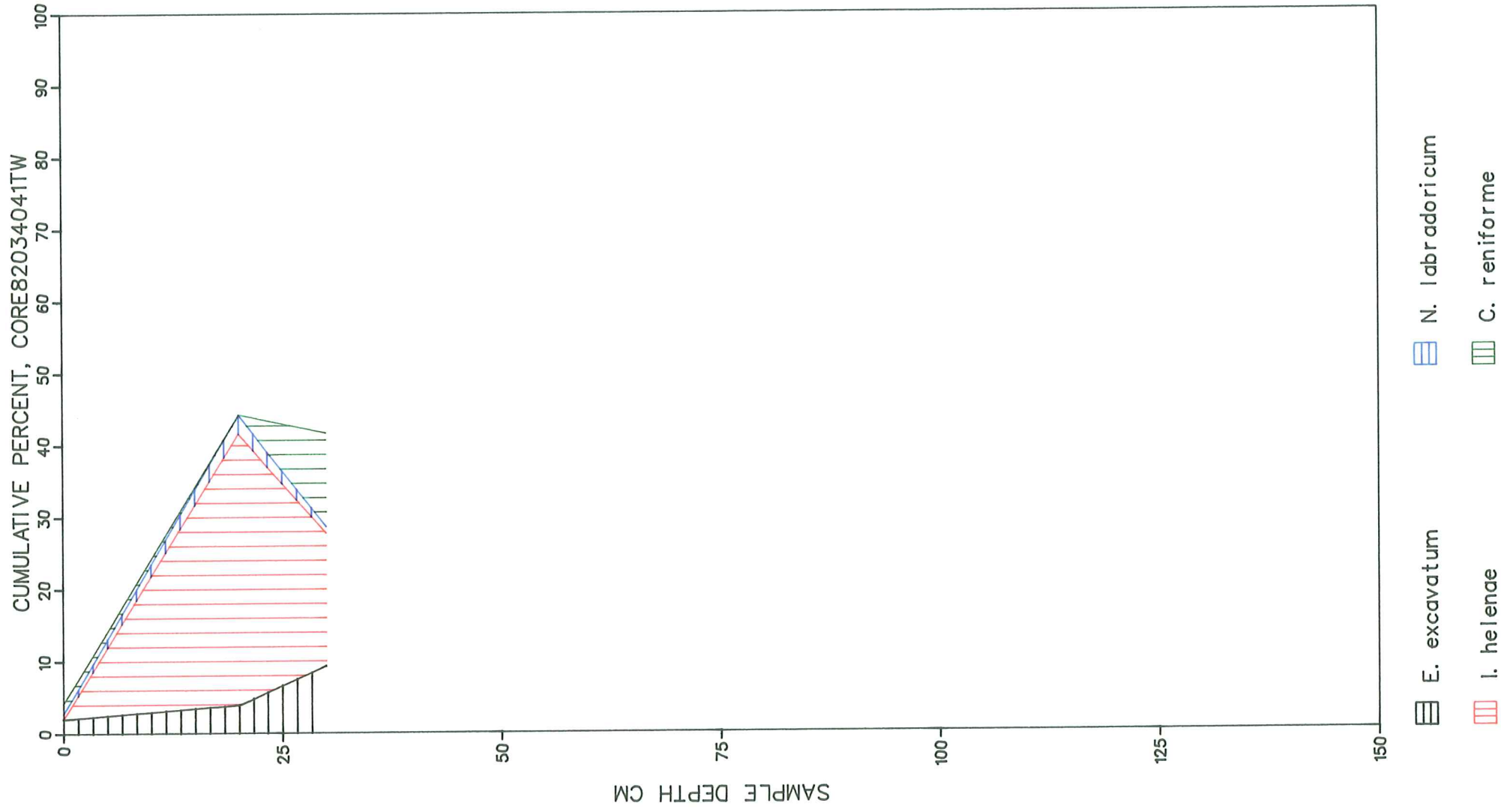
C



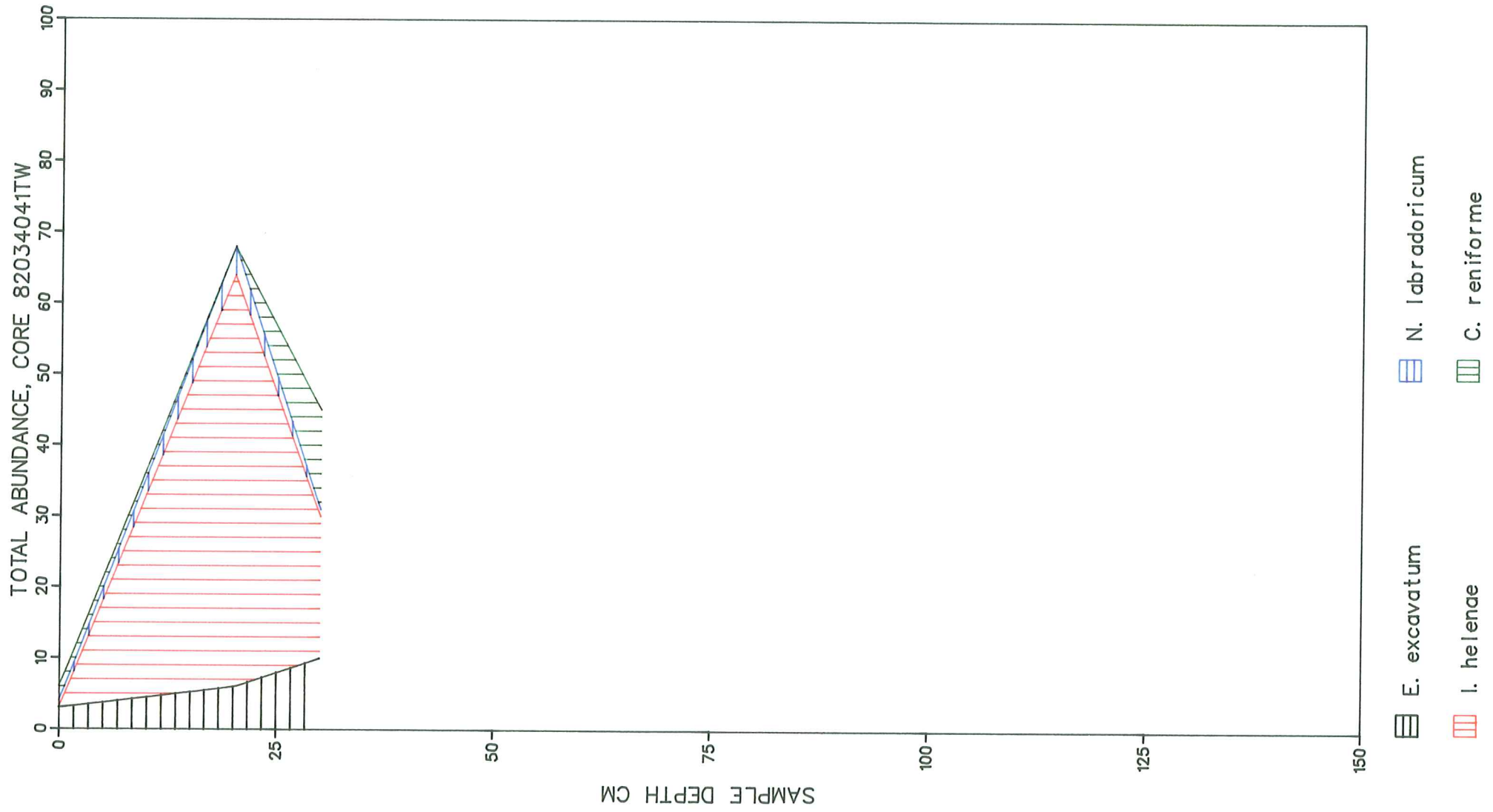
A



(B)



C



Appendix 8

82034041

Piston Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

CRUISE: 82034
 LATITUDE: 64.4203

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: BENTHOS

PAGE: 1

WATER DEPTH: 340

INTERVAL DEPTH(CM)	0	5	25	50	60
INTERVAL WIDTH(CM)	3	5	5	5	5
SPLIT NUMBER	1	1	1	1	1

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY	0	5	25	50	60
	179	348	23	46	45
	1.88	1.47	1.33	1.54	1.07

GENUS / SPECIES

PERCENTAGES

ADERCOTRYMA	GLOMERATA	.56				
ASTRONONION	GALLOWAYI	1.68				
BUCCELLA	FRIGIDA				2.17	
CASSIDULINA	LAFVIGATA	.56				
CASSIDULINA	RENIFORME	6.15	41.95	60.87	54.35	71.11
CYRILLIDES	LOBATULUS	6.15	.57			
CRIBRUSTOMOIDES	WIESNERI	.56				
ELPHIDIUM	EXCAVATUM CLA	27.93	35.06	13.04	4.35	6.67
EPISTOMINELLA	VITREA		.29	4.35		
GLOBOBULIMINA	AURICULATA		.29			
TSLANDIELLA	HELENAE	38.55	8.05	4.35	6.52	2.22
MELONIS	ZAANDAMAE	3.01				
NONIONELLINA	LABRADORICA		.29			2.22
PROTELPHYDTUM	NANUM			4.35		
HAYNASENA	ORBICULARE	3.91	1.15			
PSAMMOSPHAERA	FUSCA	.56	.29			
PULLENIA	OSLOENSIS				6.52	
REOPHAX	FUSIFORMIS	3.91				
SACCORRHIZA	RAMOSA	1.68				
SPITROPLECTAMMINA	BIFORMIS		1.15			6.52
TEXTULARIA	AGGLUTINANS				10.87	6.67
TEXTULARIA	FARLANDI			8.70	8.70	8.89
TEXTULARIA	TORQUATA	.56	1.15			
TRIFARINA	FLUENS	1.68				
TROCHAMMINA	NANA	.56				
FURSENKOINA	FUSIFORMIS		6.90			2.22
STAINFORTHIA	CONCAVA	1.12	2.87			

FORAM2

TOTAL DIVERSITY	0	5	25	50	60
	5	4		1	3
	.00	.00		.00	.00

GENUS / SPECIES

PERCENTAGES

NEOGLOBOQUADRINA	PACHYDERMA SI	100.00	100.00	100.00	100.00
------------------	---------------	--------	--------	--------	--------

CRUISE: 82034
 LATITUDE: 64.4203

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: BENTHOS

PAGE: 2

WATER DEPTH: 340

INTERVAL DEPTH(CM)	95	110	135	160	185
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	1	1	1	1	1

BENTHONIC FORAMNIFERA

TOTAL DIVERSITY	1.46	1.46	1.70	1.25	1.24
-----------------	------	------	------	------	------

GENUS / SPECIES

PERCENTAGES

BUCCELLA	FRIGIDA		1.72		16.67
CASSIDULINA	RENIFORME	54.35	27.50	16.39	16.67
CYRICIDES	LORATULUS		2.74	3.28	
CRIBROSTOMOIDES	JEFFREYSI	2.17			
DISCORBIS	SQUAMATA		2.74		
ELPHIDIUM	EXCAVATUM CLA	17.39	37.93	60.56	50.00
EPISTOMINELLA	VITREA		1.37		
GUTTULINA	LACTEA		1.37		
ISLANDIELLA	HELENAE	2.17	5.17	9.84	16.67
MELONIS	ZAANDAMAE		2.74	1.64	
MONIQUINELLA	LABRADORICA		5.17		
PULLENIA	BULLOIDES		1.37		
SPIROPECTAMMINA	BIFORMIS	10.87	1.72		
TEXTULARIA	AGGLUTINANS	4.35	3.45		
TEXTULARIA	EARLANDI	4.35		1.64	
FURSENKOTINA	FUSIFORMIS	2.17	13.79		
STAINFORTHIA	CONCAVA	2.17	1.72	6.56	

FORAM2

TOTAL DIVERSITY	.00	.00	.00	.00	.00
-----------------	-----	-----	-----	-----	-----

GENUS / SPECIES

PERCENTAGES

NEOGLOBORQUADRINA	PACHYDERMA ST	100.00		100.00	
-------------------	---------------	--------	--	--------	--

CRUISE: 82034
 LATITUDE: 64.4203

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: BENTHOS

PAGE: 3

WATER DEPTH: 340

INTERVAL DEPTH(CM)	210	235	260	285	310
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	1	1	1	1	4

BENTHONIC FORAMINIFERA

TOTAL	5	8		38	8
DIVERSITY	1.61	.74		.45	1.32

GENUS / SPECIES

PERCENTAGES

ASTRONONTON	CALLOWAYI	20.00			
BUCCELLA	FRIGIDA	20.00			
CASSIDULINA	RENIFORME	20.00	75.00	89.47	37.50
CIBICIDES	LORATULUS				12.50
ELPHIDIUM	EXCAVATUM CLA		12.50	5.26	25.00
GLOBOBULIMINA	AURICULATA			2.63	
ISLANDIELLA	HELENAE	20.00		2.63	25.00
NONTONELLINA	LABRADORICA		12.50		
FURSENKINA	FUSIFORMIS	20.00			

FORAM2

TOTAL	1			2	1
DIVERSITY	.00			.00	.00

GENUS / SPECIES

PERCENTAGES

NEOGLOBQUADRINA	PACHYDERMA ST	100.00		100.00	100.00
-----------------	---------------	--------	--	--------	--------

CRUISE: 82034
LATITUDE: 64.4203

STATION: 041

SAMPLE TYPE: BENTHOS

PAGE: 4

LONGITUDE: -62.4396 WATER DEPTH: 340

INTERVAL DEPTH(CM) 335 360
INTERVAL WIDTH(CM) 5 5
SPLIT NUMBER 2 1

BENTHONIC FORAMINIFERA

TOTAL 8 3
DIVERSITY .07 .64

GENUS / SPECIES		PERCENTAGES
CASSIDULINA	RENIFORME	37.50
CYRICIDES	LORATULUS	33.33
ELPHIDIUM	EXCAVATUM CLA	50.00
DOLINA	CAUDIGERA	12.50

FORAM2

TOTAL 1
DIVERSITY .00

GENUS / SPECIES		PERCENTAGES
NEOGLORQUADRINA	PACHYDERMA ST	100.00

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DEPTH (CM)	ADERCOTRYMA GLOMERATA	ASTRONONION GALLOWAYI	BUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME
0	.56	1.68		.56	6.15
5					41.95
25	4.35				60.87
50			2.17		54.35
60					71.11
85					54.35
110					52.05
135			1.72		27.59
160					16.39
185			16.67		16.67
210		20.00	20.00		20.00
235					75.00
260					
285					89.47
310					37.50
335					37.50
360					

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	CIBICIDES LOBATULUS	CRIBROSTOMOIDES JEFFREYSI	CRIBROSTOMOIDES WIESNERI	DISCORRIS SQUAMATA	ELPHIDIUM EXCAVATUM	CLAVATA
0	6.15		.56		27.93	
5	.57				35.06	
25					13.04	
50					4.35	
60					6.67	
85		2.17			17.39	
110	2.74			2.74	26.03	
135					37.93	
160	3.28				60.66	
185					50.00	
210						
235					12.50	
260						
285					5.26	
310	12.50				25.00	
335					50.00	
360	23.33				66.67	

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	EPISTOMINELLA VITREA	GLOBOBULIMINA AURICULATA	GUTTULINA LACTEA	ISLANDIELLA HELENAE	MELONIS ZAANDAMAE
0				38.55	3.91
5	.29	.29		8.05	
25	4.35			4.35	
50				6.52	
60				2.22	
85				2.17	
110	1.37		1.37	2.74	
135	1.72			5.17	
160				9.84	1.64
185				16.67	
210				20.00	
235					
260					
285		2.63		2.63	
310				25.00	
335					
360					

CORE: 82034
LATITUDE: 64.4203

STATION: 041

SAMPLE TYPE: BENTHOS

PAGE: 4

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH NONIONELLINA
(CM) LABRADORICA

POLINA
CAUDIGERA

PROTELPIDIUM
NANUM

HAYNASENA
ORBICULARE

PSAMMOSPHAERA
FUSCA

0				3.01	.56
5	.29			1.15	.29
25			4.35		
50					
60	2.22				
95					
110					
135	5.17				
160					
195					
210					
235	12.50				
240					
285					
310					
335		12.50			
360					

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DEPTH (CM)	PULLENIA BULLIOIDES	PULLENIA OSLOENSIS	REOPHAX FUSIFORMIS	SACCORHIZA RAMOSA	SPIROPLECTAMMINA BIFORMIS
0			3.91	1.68	
5					1.15
25					
50		6.52			6.52
60					
85					10.87
110	1.37				1.37
135					1.72
160					
185					
210					
235					
260					
285					
310					
335					
360					

CORE: 82034
LATITUDE: 64.4203

STATION: 041

SAMPLE TYPE: BENTHOS

PAGE: 6

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	TEXTULARIA AGGLUTINANS	TEXTULARIA EARLANDI	TEXTULARIA TORQUATA	TRIFARINA FLUENS	TROCHAMMINA NANA
0			.56	1.68	.56
5			1.15		
25		8.70			
50	10.87	8.70			
60	5.67	8.89			
85	4.35	4.35			
110	1.37				
135	3.45				
160		1.64			
185					
210					
235					
260					
285					
310					
335					
360					

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	FURSENKOINA FUSTIFORMIS	STAINFORTHIA CONCAVA	NEOGLORROQUADRINA PACHYDERMA SINSTRAL
0		1.12	100.00
5	6.90	2.87	100.00
25			
50			100.00
60	2.22		100.00
85	2.17	2.17	100.00
110		6.85	
135	13.79	1.72	
160		6.56	100.00
185			
210	20.00		100.00
235			
260			
285			100.00
310			100.00
335			
360			100.00

CRUISE: 82034
 LATITUDE: 64.4203

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: BENTHOS

PAGE: 1

WATER DEPTH: 340

INTERVAL DEPTH(CM)	0	5	25	50	60
INTERVAL WIDTH(CM)	3	5	5	5	5
SPLIT NUMBER	1	1	1	1	1

RENTHONIC FORAMINIFERA

TOTAL DIVERSITY	179	348	23	46	45
	1.98	1.47	1.33	1.54	1.07

GENUS / SPECIES

COUNTS

ADERCOTRYMA	1		1		
ASTRONONION	3				
BUCCELLA				1	
CASSIDULINA	1				
CASSIDULINA	11	146	14	25	32
CIBICIDES	11	2			
CIBICIDOIDES	1				
ELPHIDIUM	50	122	3	2	3
ELPHIDIUM			1		
EPISTOMINELLA		1			
GLOBORULIMINA		1			
ISLANDIELLA	69	28	1	3	1
MELONIS	7				
NONIONELITINA		1			1
PROTILPHIDIUM			1		
HAYNASENA	7	4			
PSAMMOSPHAERA	1	1			
PULLENIA				3	
REOPHAX	7				
SACCORHIZA	3				
SPIROPLECTAMMINA		4		3	
TEXTULARIA				5	3
TEXTULARIA			2	4	4
TEXTULARIA	1	4			
TRYFARINA	3				
TROCHAMMINA	1				
FURSENKOTINA		24			1
STAINFORTHIA	2	10			

FORAM2

TOTAL DIVERSITY	5	4		1	3
	.00	.00		.00	.00

GENUS / SPECIES

COUNTS

NEOGLOBQUADRINA	5	4		1	3
PACHYDERMA ST					

CRUISE: R2074
LATITUDE: 64.4203

STATION: 041
LONGITUDE: -62.4396

SAMPLE TYPE: BENT-HDS
WATER DEPTH: 340

PAGE: 2

INTERVAL DEPTH(CM)	95	110	135	160	185
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	1	1	1	1	1

BENTHONIC FORAMINIFERA

TOTAL	46	73	58	61	6
DIVERSITY	1.48	1.46	1.70	1.25	1.24

GENUS / SPECIES

COUNTS

BUCCELLA	FRIGIDA		1		1	
CASSIDULINA	RENIFORME	25	38	16	10	1
CIRRIDES	LORATULUS		2		2	
CYBROSTOMOIDES	JEFFREYSI	1				
DISCORBIS	SQUAMATA		2			
ELPHIDIUM	EXCAVATUM CLA	8	19	22	37	3
EPTISTOMINELLA	VITREA		1			
GUTTULINA	LACTEA		1			
ISLANDIELLA	HELENAE	1	2	3	6	1
MELONTS	ZAANDAMAE				1	
NONIONELLINA	LABRADORICA			3		
PULLENIA	BULLOIDES		1			
SPIROPECTAMMINA	RTIFORMIS	5	1	1		
TEXTULARIA	AGGLUTINANS	2	1	2		
TEXTULARIA	EARLANDI	2			1	
FURSENKOINA	FUSIFORMIS	1		1		
STAINFORTHIA	CONCAVA	1	5	1	4	

FORAM2

TOTAL	2
DIVERSITY	.00

3
.00

GENUS / SPECIES

COUNTS

NEOGLOBBOQUADRINA	PACHYDERMA ST	2			3
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CRUISE: R2034
LATITUDE: 64.4203

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: BENTHOS

PAGE: 3

WATER DEPTH: 340

INTERVAL DEPTH(CM)	210	235	260	285	310
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	1	1	1	1	4

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY	5 1.61	8 .74		38 .45	8 1.32
-----------------	-----------	----------	--	-----------	-----------

GENUS / SPECIES

COUNTS

ASTRONOMION	GALLOWAYI	1			
BUCCELLA	FRIGIDA	1			
CASSIDULINA	RETEFORME	1	6	34	3
CYBICIDES	LORATULUS				1
ELPHIDIUM	EXCAVATUM CLA		1	2	2
GLOBULIMINA	AURICULATA			1	
ISLANDIELLA	HELENAE	1		1	2
NONTONELLINA	LABRADORICA		1		
FURSENKOINA	FUSTIFORMIS	1			

FORAM2

TOTAL DIVERSITY	1 .00			2 .00	1 .00
-----------------	----------	--	--	----------	----------

GENUS / SPECIES

COUNTS

NEOGLOBQUADRINA	PACHYDERMA ST	1		2	1
-----------------	---------------	---	--	---	---

CRUISE: 82034
LATITUDE: 64.4203

STATION: 041

LONGITUDE: -62.4396

SAMPLE TYPE: BENTHOS

PAGE: 4

WATER DEPTH: 340

INTERVAL DEPTH(CM) 335 360
INTERVAL WIDTH(CM) 5 5
SPLIT NUMBER 2 1

BENTHONIC FORAMINIFERA

TOTAL 8 3
DIVERSITY .97 .64

GENUS / SPECIES			COUNTS
CASSIDULINA	RENIFORME	3	
CIBICIDES	LOBATULUS		1
ELPHIDIUM	EXCAVATUM CLA	4	2
UOLINA	CAUDIGERA	1	

FORAM2

TOTAL 1
DIVERSITY .00

GENUS / SPECIES			COUNTS
NEOGLOBUQUADRINA	PACHYDERMA ST	1	

CORE: 82034
LATITUDE: 64.4203

STATION: 041

SAMPLE TYPE: BENTHOS

PAGE: 1

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DEPTH (CM)	ADERCOTRYMA GLOMERATA	ASTROMONION GALLOWAYI	BUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME
0	1	3		1	11
5					146
25	1				14
50			1		25
60					32
85					25
110					38
135			1		16
160					10
185			1		1
210		1	1		1
235					6
260					
285					34
310					3
335					3
360					

CORE: 82034
LATITUDE: 64.4203

STATION: 041

SAMPLE TYPE: BENTHOS

PAGE: 2

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	CIRICIDES LOBATULUS	CRIBROSTOMOIDES JEFFREYSI	CRIBROSTOMOIDES WIESNERI	DISCORBIS SQUAMATA	ELPHIDIUM EXCAVATUM	CLAVATA
0	11		1		50	
5	2				122	
25					3	
50					2	
60					3	
85		1			8	
110	2			2	19	
135					22	
160	2				37	
185					3	
210						
235					1	
260						
285					2	
310	1				2	
335					4	
360	1				2	

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	EPISTOMINELLA VITREA	GLOBORULIMINA AURICULATA	GUTTULINA LACTEA	ISLANDIELLA HELENAE	MELONIS ZAANDAMAE
0				59	7
5	1	1		28	
25	1			1	
50				3	
60				1	
85				1	
110	1		1	2	
135	1			3	
160				6	1
185				1	
210				1	
235					
260					
295		1		1	
310				2	
335					
360					

LATITUDE: 64.4203

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	NONIONELLINA LARRADOPICA	COLINA CAUDIGERA	PROTELPIDIUM NANUM	HAYNASENA ORBICULARE	PSAMMOSPHAERA FUSCA
0				7	1
5	1			4	1
25			1		
50					
60	1				
85					
110					
135	3				
160					
185					
210					
235	1				
260					
285					
310					
335		1			
360					

COPE: 82034
LATITUDE: 64.4203

STATION: 041

SAMPLE TYPE: BENTHOS

PAGE: 5

LONGITUDE: -62.4396

WATER DEPTH(M): 340

DPTH (CM)	PULLENIA RULLOIDES	PULLENIA OSLOENSTIS	REOPHAX FUSIFORMIS	SACCORHIZA RAMOSA	SPIROPLECTAMMINA BIFORMIS
0			7	3	
5					4
25					
50		3			3
60					
85					5
110	1				1
135					1
160					
185					
210					
235					
260					
285					
310					
335					
340					

LATITUDE: 64.4203

LONGITUDE: -62.4395

WATER DEPTH(M): 340

DPTH (CM)	TEXTULARIA AGGLUTINANS	TEXTULARIA EARLANDI	TEXTULARIA TORQUATA	TRIFARINA FLUENS	TROCHAMMINA NANA
0			1	3	1
5			4		
25		2			
50	5	4			
60	3	4			
95	2	2			
110	1				
135	2				
160		1			
185					
210					
235					
260					
295					
310					
335					
360					

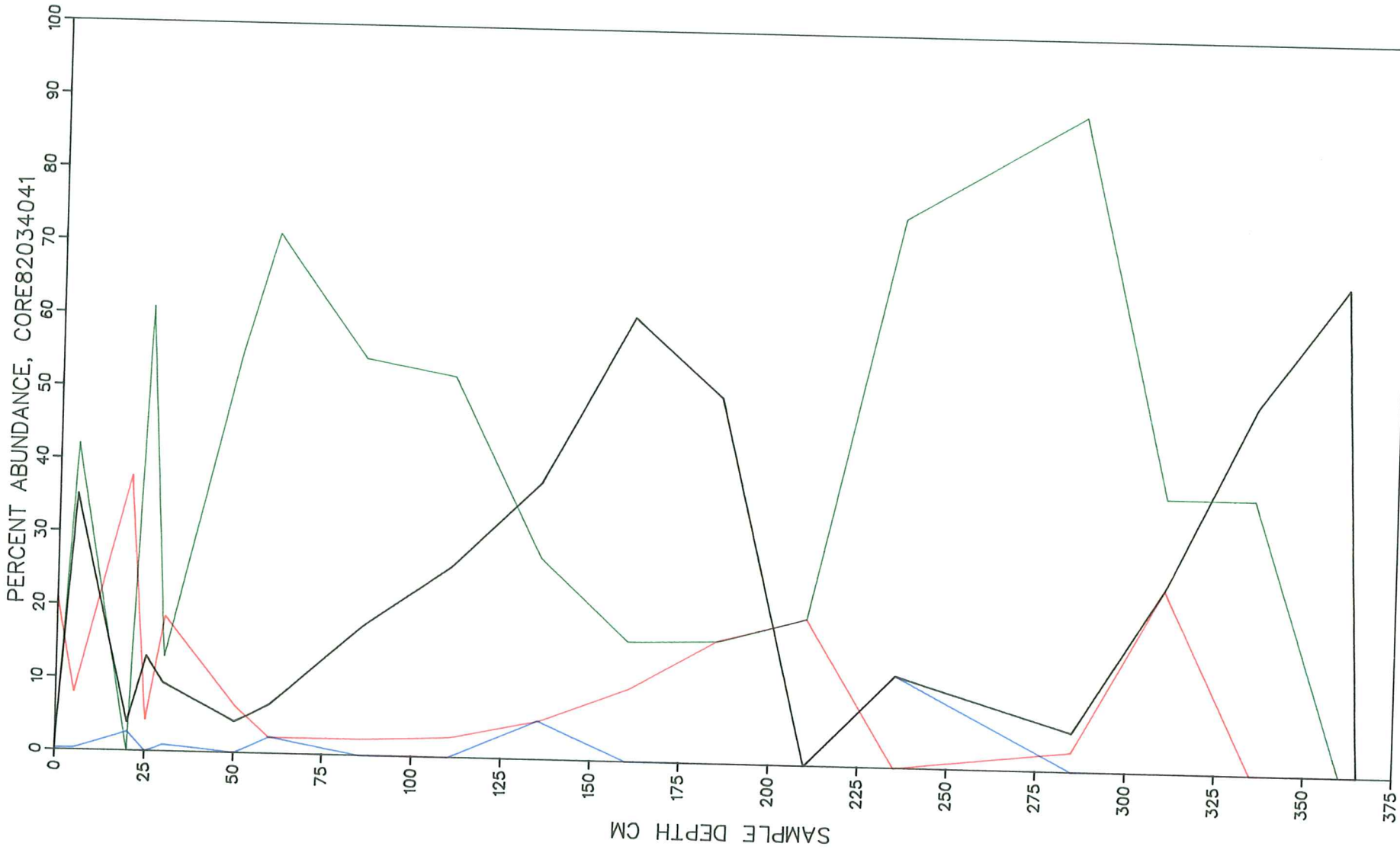
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LONGITUDE: -62.4396

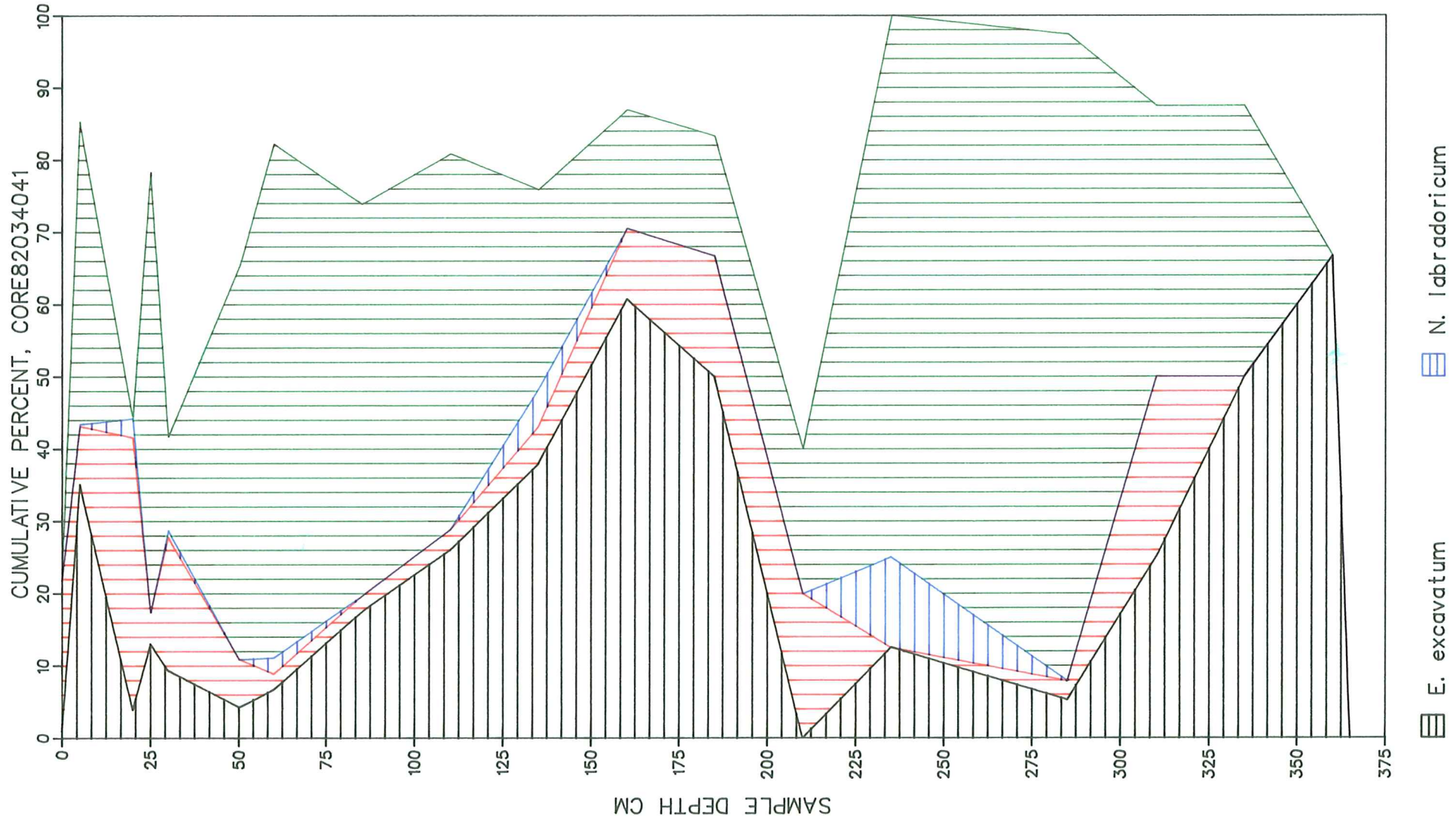
WATER DEPTH(M): 340

DPTH (CM)	FURSENKOYINA FUSIFORMIS	STAINFORTHIA CONCAVA	NEOGLOBOQUADRINA PACHYDERMA SINSTRAL
0		2	5
5	24	10	4
25			
50			1
60	1		3
85	1	1	2
110		5	
135	8	1	
160		4	3
185			
210	1		1
235			
260			
285			2
310			1
335			
360			1

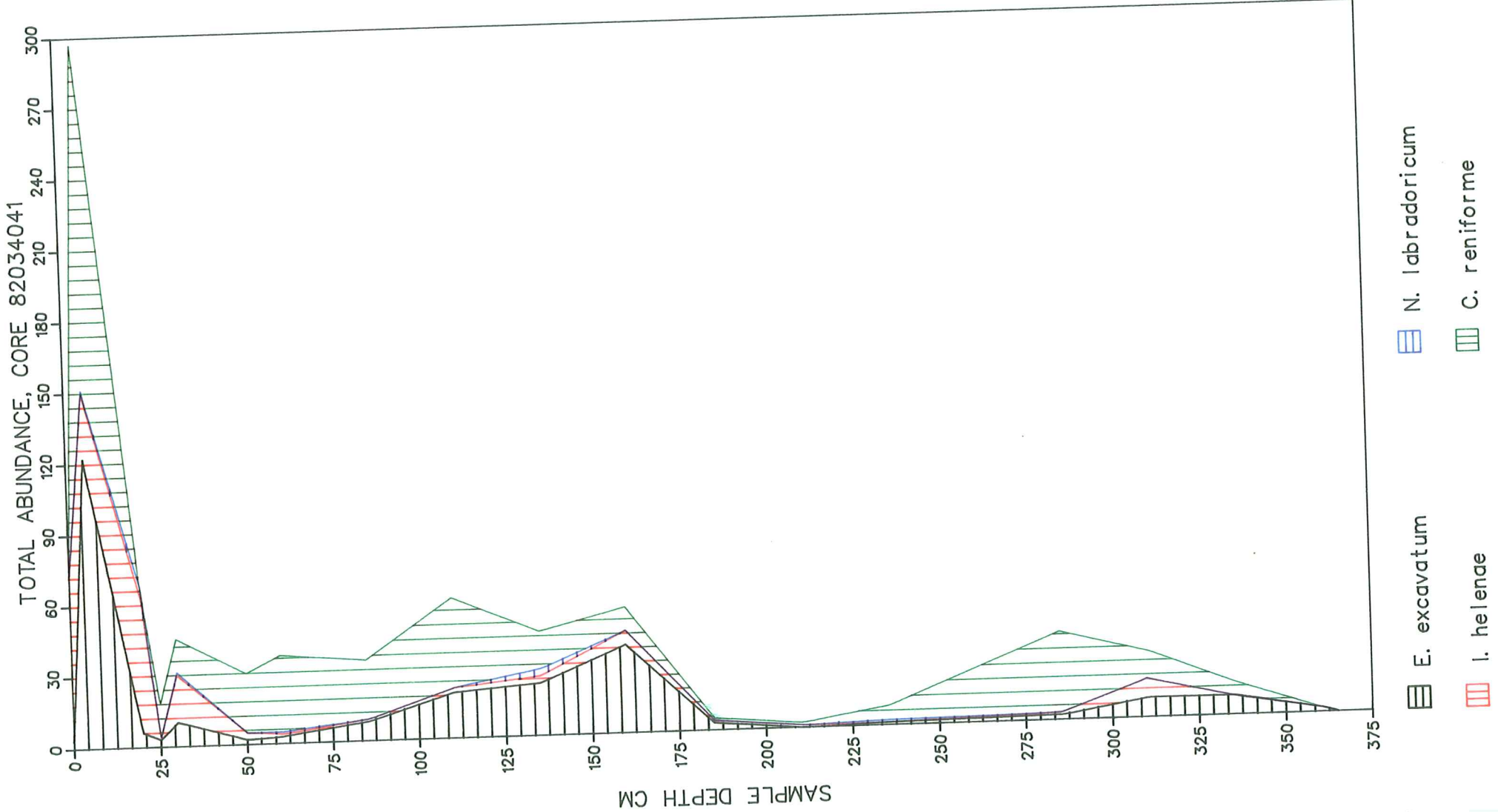
(A)



(B)



C



Appendix 9

82034042

Piston Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

LATITUDE: 44.4774

LONGITUDE: -52.2166

WATER DEPTH: 340

INTERVAL DEPTH(CM)	0	10	25	50	70
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	2		1	1	4

BENTHONIC FORAMINIFERA

TOTAL	3	35	6	7	2
DIVERSITY	1.10	1.20	1.21	1.15	.69

GENUS / SPECIES

PERCENTAGES

CASSIDULINA	RETIORNE	65.71	50.00		
CYRILLIDES	LORATULUS	8.57		14.29	
ELPHIDIUM	EXCAVATUM	33.33	11.43		
ELPHIDIUM	EXCAVATUM CLA			12.50	50.00
EPTISTOMINELLA	TAKAYANAGI				
EPTISTOMINELLA	VITREA		5.71	12.50	14.29
ISLANDIELLA	HELENAE		2.86	25.00	57.14
MELONIS	ZAMPARAE	33.33			
MONIOMELLINA	LABRADORICA		2.86		
TROCHAMMINA	NANA	33.33			
FURSENKOVNA	FUSIFORMIS		2.86		

FORAM?

TOTAL	2
DIVERSITY	.60

GENUS / SPECIES

PERCENTAGES

NEOGLORBOQUADRINA	PACHYDERMA ST	100.00
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LATITUDE: 46.4316

LONGITUDE: -62.2155

WATER DEPTH(M): 340

DEPTH (CM)	CASSIDULINA PENIOPORUS	CIRRIIDES LORATULUS	ELPHIDIUM EXCAVATUM	ELPHIDIUM EXCAVATUM CLAVATA	EPISTOMINELLA TAKAYANAGII
0			22.32		
10	55.71	9.57	11.43		
25	50.00			12.50	
50		14.29			14.29
70				50.00	

LATITUDE: 44.4137

LONGITUDE: -62.2165

WATER DEPTH(M): 340

DEPTH
(CM) EPITOMELLA
VITREAISLANDIELLA
HIERNAEMELONIS
ZANDBANKMONONELLINA
LARRADORICATORTHAMMINA
NANA

0			33.33		33.33
10	5.71	2.86		2.86	
25	12.50	25.00			
50	16.29	57.14			
70		50.00			

LATITUDE: 54.4114

LONGITUDE: -42.2165

WATER DEPTH(M): 340

DEPTH
(CM) FURCENKOINA
FUSIFORMISNEOGLOBBOVARINA
RACHYDERMA SINISTRAL

0

10 2.84

100.00

25

50

70

CRUISE: 82034 STATION: 342 SAMPLE TYPE: BENTHOS PAGE: 1
 LATITUDE: 34.4176 LONGITUDE: -62.2165 WATER DEPTH: 340

INTERVAL DEPTH(CM) 0 25 50 70
 INTERVAL WIDTH(CM) 25 25 20
 SPLIT NUMBER 2 1 4

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY 3 35 8 7 2
 1.10 1.20 1.21 1.15 .69

GENUS / SPECIES

COUNTS

CASSIDULINA	BENTHOPNE	20			
STRIGIDES	LORATHIUS	2		1	
ELPHIDIUM	EXCAVATUM	4			
ELPHIDIUM	EXCAVATUM CIA		1		1
EPISTOMINELLA	TAKAYANAGI			1	
EPISTOMINELLA	VITREA	2	1	1	
ISLANDICELLA	HELENAE	1	2	4	1
MELONIS	ZAANDANAE				
NONIPELLINA	LARRODORICA	1			
TROCHAMMINA	MENA				
FURSEKONINA	EUSTROPHIS	1			

FORAMS

TOTAL DIVERSITY 2
 .69

GENUS / SPECIES

COUNTS

NEOGLOBQUADRINA PACHYDERMA ST 2

LATITUDE: 66.4716

LONGITUDE: -62.2165

WATER DEPTH(M): 340

DPTH (CM)	CASSIDULINA RENIFORME	CIRRIDES LEPTOCEUS	ELPHIDIUM EXCAVATUM	ELPHIDIUM EXCAVATUM CLAVATA	EPISTOMINELLA TAKAYANAGII
0			1		
10	22	3	4		
25	4			1	
50		1			1
70				1	

LATITUDE: 44.4114

LONGITUDE: -62.2166

WATER DEPTH(M): 340

DEPTH (CM)	CRISTOMMELLA VITREA	ISLANDHELLA HELENAE	MYLONIS ZANDAMAE	NONIONELLINA LABRADORICA	TROCHAMMINA NANA
0			1		1
10	2	1		1	
25	1	2			
50	1	4			
70		1			

LATITUDE: 44.4116

LONGITUDE: -62.2165

WATER DEPTH(M): 340

DPTH
(CM) EURSEAKOTNA
FUSTEORMTSNEOGI BRONHADRINA
RACHYDERNA SINSTRAL

0

10 1

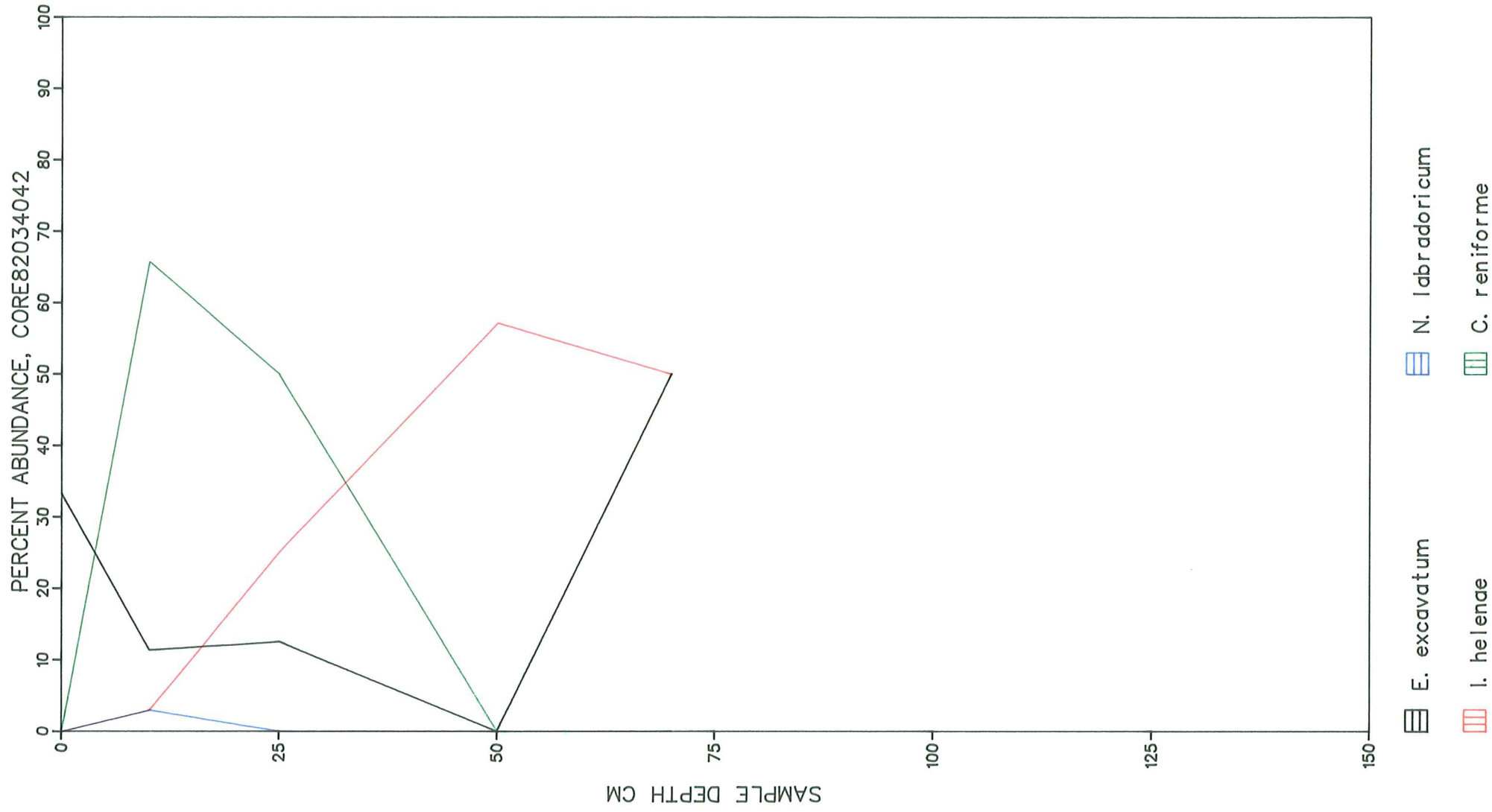
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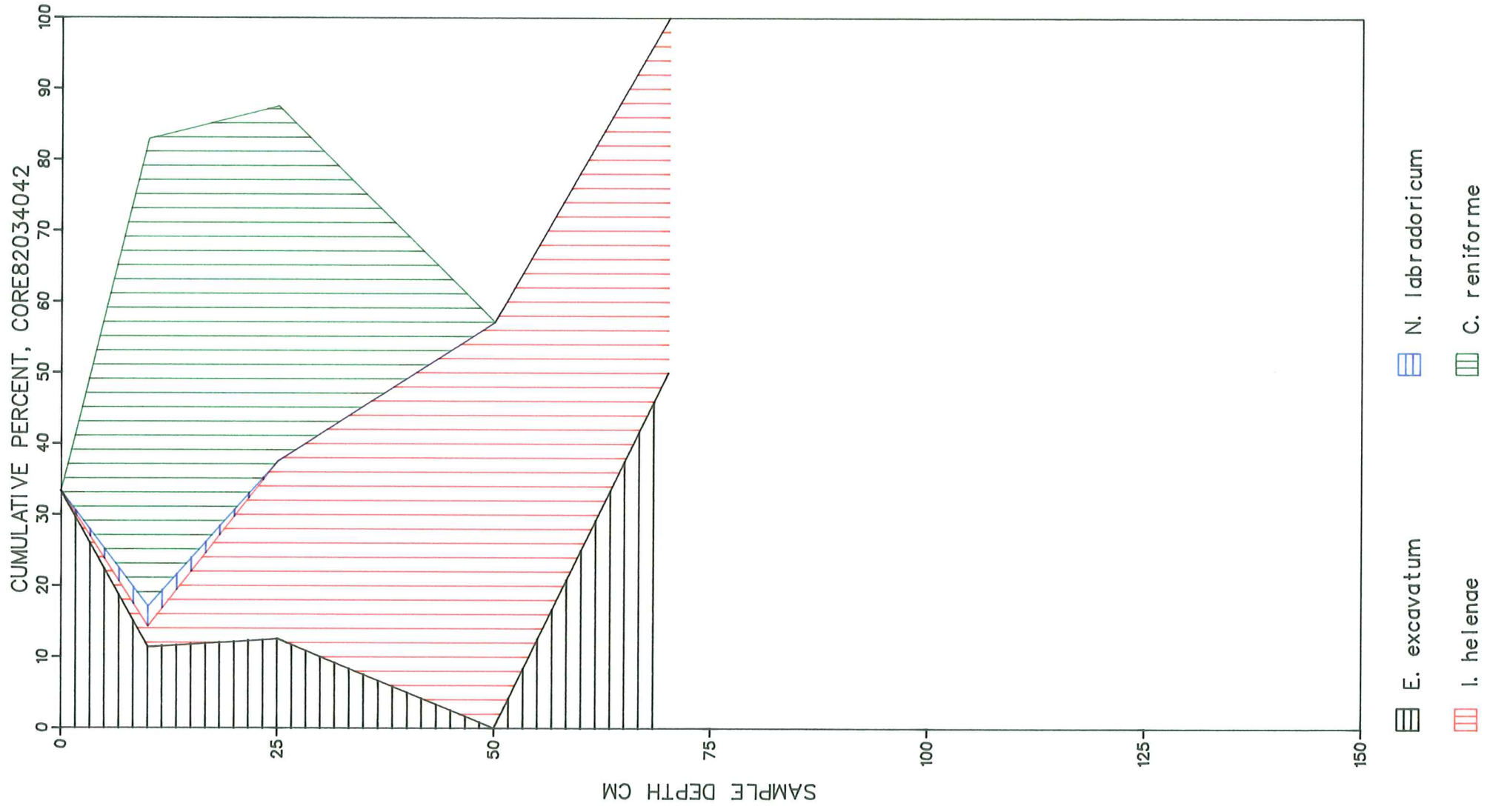
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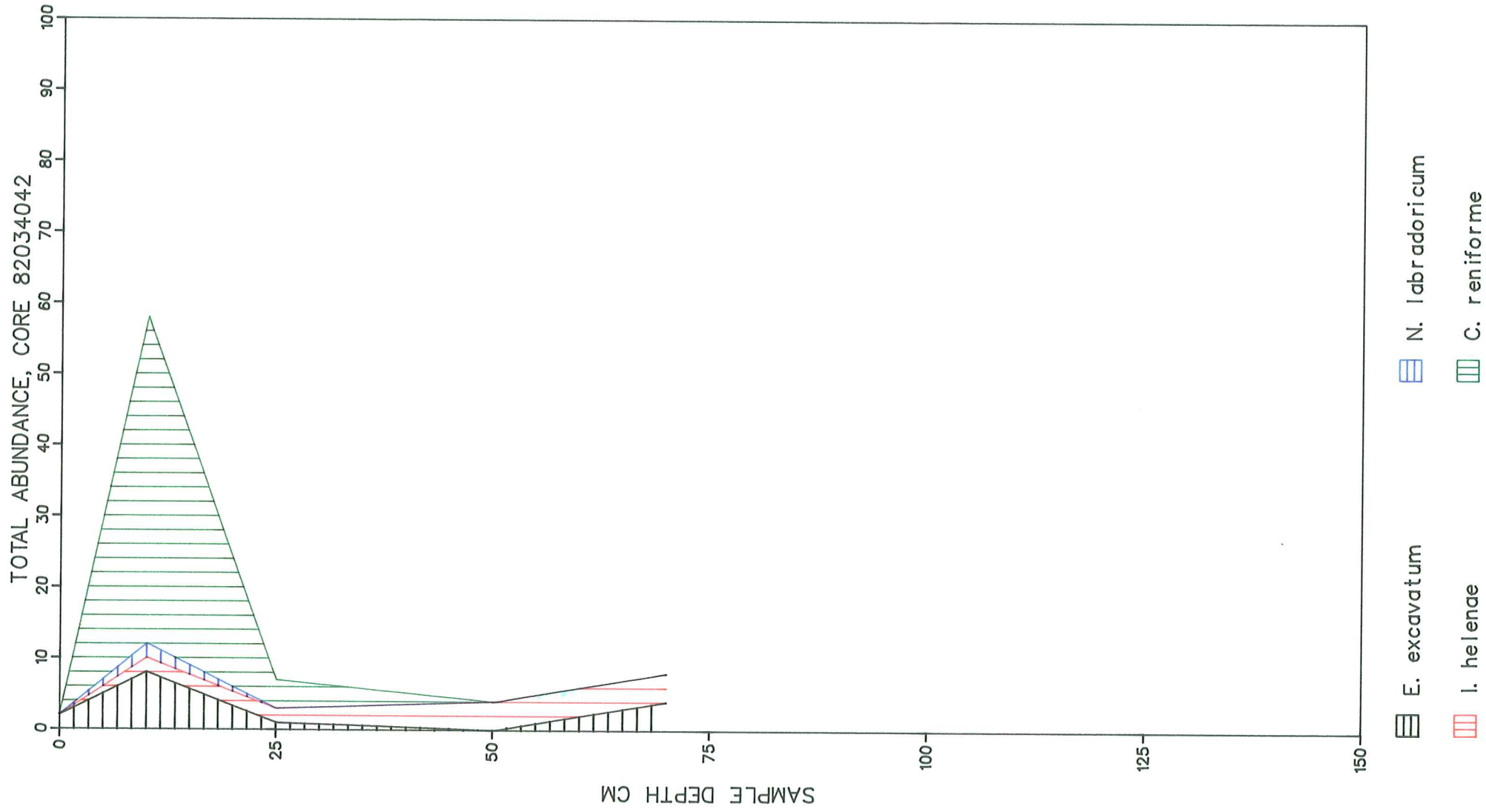
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B



2



Appendix 10

82034044

Van Veen Grab

CONT: 25034

STATION: 044

SAMPLE TYPE: TKU-CRAB

PAGE: 1

LATITUDE: 34.2600

LONGITUDE: -67.5400

WATER DEPTH(M): 0

DEPTH ADICPROMMA
(CM) CLOSERATA

ASTROMINTON
GALLOWAYI

CASSIDULINA
UNIFORME

GIBICIDES
LABRATULUS

CRIBROSTOMOIDES
CRASSIMARGO

11.22

2.37

4.35

8.70

36.96

LATITUDE: 34.2100

LONGITUDE: -122.5400

WATER DEPTH(M): 6

PRYDIPLOSTOMELLA
(C) MITRAHYPERAMMINA
CYLINDRICARHOCHAY
EUSIOPRITSTROCHAMMINA
NANATROCHAMMINA
QUADRILoba

6.10

6.70

6.70

6.52

2.17

CORR: 0.0034

STATION: 044

SAMPLE TYPE: JKU-CRAB

PAGE: 3

LATITUDE: 54.2500

LONGITUDE: -63.9400

WATER DEPTH(M): 0

DEPTH GREGGIC TIME
(CM) RHELODUS

DIOSLORRHADRINA
CACIYORNA SINSTRAL

55.33

56.57

LATITUDE: 34.2100

LONGITUDE: -62.5400

WATER DEPTH(M): 0

DPT: ADIPOCITYMA
(CM) GLOBULATA

OSTEODONTOM
CALLWAYI

CASSIDINIINA
REINFORME

CIRRICTES
LOBATULUS

CRIBROSTOMIDES
CRASSIMARGO

7

1

2

4

17

LATITUDE: 144.2100

LONGITUDE: 142.2400

WATER DEPTH(M): 0

DEPTH (CM) 0
 PISTONELLA
 VITREA

HYDROAMMOMA
 CYLINDRICA

REIDHAY
 RUSTIFORMIS

TROCHAMMINA
 NANA

TROCHAMMINA
 QUADRILOBATA

5

4

4

3

1

COPY: 00044

STATION: 744

SAMPLE TYPE: IKU-GYAR

PAGE: 2

LATITUDE: 44.2500

LONGITUDE: -52.4400

WATER DEPTH(M): 0

BOTH CLIPPERINA
(CM) BULLOJOL

GEORGIORQUADRINA
PACHYDIERA SINISTRAL

2

Appendix 11

82034051

IKU Grab

CRUISE: 12034
LATITUDE: 52.512

STATION: 001

SAMPLE TYPE: IKU-GRAB

PAGE: 1

LONGITUDE: -53.825 WATER DEPTH: 216

INTERVAL DEPTH(CM)
INTERVAL WIDTH(CM)

BEENTHONIC FORAMINIFERA
TOTAL
DIVERSITY

79
3.77

GENUS / SPECIES

PERCENTAGES

BUCCELLA	ARTICIDA	4.17
CASSIDULINA	RETIPORE	37.04
CIBICIDUS	LEPTALUS	8.42
ELPHIDELLA	ARTICA	2.79
ELPHIDINE	EXCAVATUM CIA	34.72
ISLANDIELLA	HELICID	16.67
NONIONELLA	LARVIDORICA	12.81
FURCULONINA	RETIPORE	2.78

FORAMS

TOTAL
DIVERSITY

0
4.00

GENUS / SPECIES

PERCENTAGES

NEOLORONCHINA	PACHYDORICA ST	100.00
---------------	----------------	--------

LATITUDE: 52.5912

LONGITUDE: -63.6525

WATER DEPTH(M): 214

DIRT BUCCHIA
(CM) ARTICIA

CASSIDULINA
SENTORBI

CIRIODES
LORATUS

ELPHIDIELLA
ARCTICA

ELPHIDIUM
EXCAVATUM CLAVATA

0 4.17

18.06

8.33

2.78

34.72

LATITUDE: 16.475

LONGITUDE: -83.025

WATER DEPTH(M): 214

DPTH ISLANITELLA
(CM) PLENUMNONCONVALLINA
LEPTODORTICAEIRSENKOINA
RUSTIFORMISNEOGLOBORHADRINA
PACHYDERMA SINISTRAL

6 16.47

12.50

2.70

100.00

CRUISE: 22034 STATION: 051 SAMPLE TYPE: TKU-CRAB PAGE: 1
 LATITUDE: 42.5119 LONGITUDE: -53.0525 WATER DEPTH: 214

INT. DVAL DEPTH(CM) 0
 INTERVAL WIDTH(CM) 5

BENTHONIC CRAWLERS
 TOTAL 72
 DIVERSITY 1.77

GENUS / SPECIES	COUNTS
RUCCOGLIA EBROGIA	3
CASSIDULINA BENTONINA	13
CIRRICIDES LORATHLUS	5
ELPHIDIIDIA ABOTICA	2
ELPHIDIUM CYCAVATUM CLA	25
YSLANDIELLA GLENNAN	12
NONIONELLA LARADORICA	5
EUSIRINKONA EUSTORINIS	2

COLEPS
 TOTAL 0
 DIVERSITY 0.00

GENUS / SPECIES	COUNTS
NEDELBOROUGHAKTNA RACHYDORMA ST	0

CORE: 02046

STATION: 051

SAMPLE TYPE: TKU-CRAB

PAGE: 1

LATITUDE: 52.5702

LONGITUDE: -48.0525

WATER DEPTH(M): 214

BOYD BUCCELLA
(CM) FLUIDA

CASSIDULINA
RINIFORIS

CIRRICIDES
LABRATULUS

ELPHIDIELLA
ARCTICA

ELPHIDIUM
EXCAVATUM CLAVATA

0

2

13

6

2

25

CORR: 42086

STATION: 06J

SAMPLE TYPE: JKU-CPAB

PAGE: 2

LATITUDE: 42.5112

LONGITUDE: -69.4825

WATER DEPTH(M): 214

DPTH: 214
(CM) MELTAGE

NOVION: FLINA
LABRADORICA

EURSEKONIA
EUSIFORMIS

NEOGLORIOQUADRINA
PACHYDERMA SINSTRAL

0 11

0

2

9

Appendix 12

82034055

IKU Grab

LATITUDE: 52.1743

LONGITUDE: -42.6454

WATER DEPTH(M): 350

DEPTH ASTROMONTON
(CM) GALLERWAY)BUCCELLA
EPICIDACASSIDULINA
LAEVIGATACASSIDULINA
RENIFORMECIRRICIDES
LOBATULUS

0 1.47

2.45

.40

52.94

.49

CRUISE: 02034
LATITUDE: 52.1741

STATION: 050

SAMPLE TYPE: YKII-CRAB

PAGE: 1

LONGITUDE: -69.0485 WATER DEPTH: 350

INTERVAL DEPTH (CM) 0
INTERVAL WIDTH (CM) 0

BENTHONIC FORAMINIFERA

TOTAL 204
DIVERSITY 3.22

GENUS / SPECIES

COUNTS

ASTRIONONTA	CALLOWAYI	2
BUCCELLA	FREGIDA	0
CASSIDULINA	LAEVIGATA	1
CASSIDULINA	KENTFORME	10
CIPICIDES	LOBATULUS	1
ELPHIDTUM	EXCAVATUM CLA	1
ETISSURINA	MARGINATA	1
ISLANDIELLA	HELENAE	1
MELONIS	ZAANDAMAE	5
NONIONELLINA	LARRABORICA	2
PYRGO	WILLIAMSONI	1

FOR 02

TOTAL 204
DIVERSITY 3.22

GENUS / SPECIES

COUNTS

MEGALOBOLIVADINA	PACHYDERMA ST	201
MEGALOBOLIVADINA	PACHYDERMA DE	3

LATITUDE: 62.1741

LONGITUDE: -69.6455

WATER DEPTH: 350

INTERVAL DEPTH(CM) 0
INTERVAL WIDTH(CM) 5

BENTHONIC FORAMINIFERA

TOTAL 204
DIVERSITY 1.32

GENUS / SPECIES

PERCENTAGES

ASTRONOMION	GALLIQUAYI	1.47
BUCCELLA	ERICIDA	2.45
CASSIDULINA	LACVIGATA	1.49
CASSIDULINA	RENTONKMT	52.04
CTRICIDES	LORATULUS	1.49
ELPHIDIUM	EXCAVATUM CLA	1.82
ETOSURINA	MARGINATA	1.40
YSIANDICELLA	HELENAE	28.43
HELIANTS	ZAANDAMAE	2.45
MONTONELLINA	LARRADNETCA	1.47
PYRGO	WILLIAMSONI	.49

FORAM?

TOTAL 204
DIVERSITY 1.08

GENUS / SPECIES

PERCENTAGES

NEOGIQUADRINA	PACHYDERMA ST	98.52
NEOGIQUADRINA	PACHYDERMA PL	1.47

CODE: 82034

STATION: 094

SAMPL TYPE: EKU-CRAB

PAGE: 2

LATITUDE: 62.1741

LONGITUDE: -63.0455

WATER DEPTH(M): 350

DPH ELPHIDIUM
(CM) EXCAVATUM CLAVATA

FISSURINA
MARGINATA

ISLANDIELLA
HELENAE

MELONIS
7AANDAMAE

NONIONELLINA
LABRADORICA

0 8.02

4.49

2.43

2.45

1.47

CORE: 22024

STATION: 055

SAMPLE TYPE: TKU-GRA3

PAGE: 1

LATITUDE: 52.1741

LONGITUDE: -84.1455

WATER DEPTH(M): 350

DEPTH ASTRENCHON
(CM) CALLOWAYI

MUCCELLA
FRICTOA

CASSIDULINA
LAEVIGATA

CASSIDULINA
RENIFORME

CIBICIDES
LOBRATULUS

0

2

5

1

10R

1

CORR: 42034

STATION: 055

SAMPLE TYPE: IKU-GRAB

PAGE: 2

LATITUDE: 52.7743

LONGITUDE: -63.6466

WATER DEPTH(M): 350

NOTH FLOHDIUM
(CM) LYCAVITUM CLEVATA

FUSSUDINA
MARGINATA

ISLANDIELLA
HELENAI

MELONIS
ZAANDAMAE

NONIONELLINA
LABRADORICA

0

10

1

55

5

3

CODE: 52024

STATION: 094

SAMPLE TYPE: LKII-GRAB

PAGE: 3

LATITUDE: 62.1741

LONGITUDE: -62.0455

WATER DEPTH(M): 350

DEPTH BYRGO
(CM) WILLIAMSONT

NEQGLORROUADRINA
RACHYDERMA SINISTRAL

NEQGLORROUADRINA
RACHYDERMA DEXTRAL

0

1

201

3

Appendix 13

82034056

TWC-Trigger Weight Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

DATE: 02.26
 LATITUDE: 161.100

STATION: 256

SAMPLE TYPE: TVC

PAGE: 1

LONGITUDE: -68.6500

WATER DEPTH: 520

INTERVAL DEPTH (CM)	0	25	50	75
INTERVAL WIDTH (CM)	5	5	5	5
NET WEIGHT (G)	45.0	54.0	50.0	54.0
SPLIT NUMBER	15	15	4	15

BENTHONIC EPIDAMINIFERA
 TOTAL
 DIVERSITY

391	278	175
1.89	1.69	1.45

GENUS / SPECIES

PERCENTAGES

ASTRONOMIDAE	CALIDMAYI	.25	
BOLIVINA	PSCHIDIPUNCTAT	.70	.87
BUCCELLIA	ERTSIDA	.25	
CASSIDULINA	LAEVICATA	4.04	
CASSIDULINA	ROMIIFORME	6.65	11.98
CASSIDULINA	SUBULTROSA	.25	
CLEFTIDAE	LEPANTHUS	5.24	.67
CYCLOPYDA	IMMUTABILIS	.25	
DENTALINA	FRIGIDISSIMA		.17
ELPHIDIIDAE	ARCTICA	2.72	
ELPHIDIUM	CYCAVATIM CIA	16.66	25.90
EPITOSTOMIDAE	EXIGUA	.55	
EPITOSTOMIDAE	VITREA	.60	
GLABRULININA	AURICULATA		.25
HYPERHAMMINA	CYLINDRICA	.40	
ISLANDIELLA	GILLENAS	3.53	6.42
ISLANDIELLA	NOBILISSI		3.13
MARGARETTA	ORPUS	.25	
MELONIS	ZAMBANAS	4.60	
NONIONELLINA	LABRODORICA	44.22	69.48
NONIONA	SOMMERSHILCA	.25	
PROTODONIDAE	XANTHA		.17
HAYNACENA	ORPUS		.52
PSEUDOPOLYDORIDAE	NOVANCELAT	.75	
PULLENIA	RHILIDAE	.60	
DYDIO	WILLIAMSONI		6.35
SACCARDINA	ATLANTICA	.25	
TRIFARINA	FLUCAS	.25	
TRILUCULINA	TOLCARTINATA		.17
EUPSEUKIDAE	EUSTRUKIDAE	.01	.87
STATIDINIDAE	CONCAVA	7.93	8.90

EDRAM?

TOTAL
 DIVERSITY

152	101	100
.00	.06	.00

GENUS / SPECIES

PERCENTAGES

MEGALOPOLYDORINA	PACHYDORMA ST	100.00	100.00
MEGALOPOLYDORINA	PACHYDORMA DE	.00	

CORRE: 80084
LATITUDE: 51.8111

STATION: 086

SAMPLE TYPE: TWC

PAGE: 1

LONGITUDE: -63.6550

WATER DEPTH(M): 523

DEPTH
(CM) ASTERIONION
CALLWAYE

BOUVINA
PSEUDOPUNCTATA

RUCCELLIA
FRIGIDA

CASSIDULINA
LAEVIGATA

CASSIDULINA
RENIFORME

0

.60

6.34

6.65

25

.79

.26

10.85

50

.67

11.98

70

DEPTH (CM)	CASSIDULINA SUBCLOPSA	CERATOBIUS FORATULUS	CYCLOCYPRUS INVOLVENS	DENTALINA FRORISHERENSIS	ELPHIDIELLA ARCTICA
0		5.14			2.72
25	2.1	4.9	0.26		
50		6.87		0.17	
70					

LATITUDE: 34.8517

LONGITUDE: -83.6550

WATER DEPTH(M): 523

DEPTH (CM)	DIODONTUM EXCAVATUM	CLAVATA	EPISTOMINELLA LYCIA	EPISTOMINELLA VITREA	FLORIDULIMINA AURICULATA	HYPERAMMINA CYLINDRICA
0	36.42		.60	.60		.60
25	25.46				.26	
50	33.51				.17	
70						

LATITUDE: 46.0901

LONGITUDE: -53.5950

WATER DEPTH(M): 523

DPTH (CM)	ISLANDIELLA HALLI NAT	ISLANDIELLA HALLI NAT	MARGINULENA PRESA	MELONTS 7AANDAMAF	NONIONELLINA LABRADORICA
0	3.43			6.60	46.22
25			2.25		40.48
50	5.40	3.13			16.15
70					

COORD: 32154
LATTITUDE: 41.0517

STATION: 656

SAMPLE TYPE: TWC

PAGE: 5

LONGITUDE: -82.6550

WATER DEPTH(M): 523

DEPTH (CM) OCCURANCE DATA

POLLICIA RHIZOTHUM
SARUM

HAYNESINA
PRISICULARIS

PSEUDOPOLYHOROCHINA
NOVANCLIAE

PULLENIA
BULLOIDES

0
25
50
75

.17

.32

.79

.60

DATE: 1963
LATITUDE: 35.25N

STATION: 08A

SAMPLE TYPE: TWC

PAGE: 6

LONGITUDE: -83.55W

WATER DEPTH(M): 523

DEPTH (CM) 0-100

SACCAMMINA
ATLANTICA

TRIFARINA
FLUENS

TRILOCULINA
TRICARINATA

FURSENKOINA
FUSIFORMIS

0

.21

.91

25 6.25

.26

3.97

50

.17

.87

75

LATITUDE: 53.2500

LONGITUDE: -63.6570

WATER DEPTH(M): 523

DEPTH STATION
(CM) STATIONBLDRIORINA
OUTNOUCLORANEGGLORQUADRINA
PACHYDERMA SINISTRALNEGGLORQUADRINA
PACHYDERMA DEXTRAL

0 7.85
 25 1.00
 50 2.60
 70

100.30
 99.31
 100.30

.99

CRUISE: 02036
 LATITUDE: 60.2503

STATION: 015

SAMPLE TYPE: TWC

PAGE: 1

LONGITUDE: -43.5550 WATER DEPTH: 522

INTERVAL DEPTH (CM) 0 25 50 75
 INTERVAL WIDTH (CM) 5 5 5 5
 I.E. WEIGHT (G) 49.0 54.0 50.0 50.0
 SPLIT NUMBER 15 14 2 16

BENTHONIC FORAMIFERA
 TOTAL 391 378 175
 DIVERSITY 1.14 1.60 1.45

GENUS / SPECIES		COUNTS	
ASTRONEONTINA	CALIDWAYI	1	
BULLIVINA	PSEUDOPUNCTAT	2	5
BUCCELLIA	EPICIDA	2	1
CASSIDULINA	LATEVIGATA	20	
CASSIDULINA	BENEFORME	22	60
CASSIDULINA	CIRCULIPROSA	1	1
CYRILLIDES	LOBRATULUS	17	5
CYCLICOMMA	TRICOMENS	1	1
DENTALINA	FRIBISHIRENSIS		1
ELPHIDIELLA	ARCTICA	9	
ELPHIDIUM	CYCAVATUM CIA	55	222
EPISTOMINELLA	CYTOMA	2	
EPYSTOMINELLA	VITREA	2	
CLOROBULMINA	AUDICULATA	2	1
HYPERAMBLYNA	CYLTINORICA	2	
ISLANDIELLA	HELLENAE	12	37
ISLANDIELLA	NEBRODISST		12
MARCIANELLA	OROSA	1	
MELONIS	ZAANBAMAE	2	
NONIONELLINA	LARRADONICA	113	93
BOULTNA	CONRADSONULLCA	1	
PROTIERMIDIA	NANUM		1
HAYNASTINA	PROTICHLARE		2
PSEUDOPHLYNDRONINA	NOVAEGLIAE		3
PHLENTIA	PHLENTIDES	2	
PYRRO	WILLIAMSONI		24
SACCAMMINA	ANTANTICA	1	
TRIFARTINA	FIUMIS		1
TRITICHELLINA	TRITICARTINATA		1
FURSENERONINA	FURSENERONIS	3	5
STATINORTHIA	CONCAVA	26	15

GRAB
 TOTAL 180 181 110
 DIVERSITY 1.01 1.04 1.00

GENUS / SPECIES		COUNTS	
NEOGLORIDINIDINA	BACHYDERMA ST	100	100
NEOGLORIDINIDINA	BACHYDERMA DE		1

CORPE: 1204
LATITUDE: 01.50

STATION: 05

SAMPLE TYPE: TMC

PAGE: 1

LONGITUDE: -63.650

WATER DEPTH(M): 523

DPTH (CM)	ASPERGILLUS GALDWAYI	BOLETTINA PSEUDORHIZOGATA	BUCCELLIA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME
0			2	20	22
21		2	1		41
50		4			69
70					

DEPTH
(CM) CASSTHENIINA
SIRGLESII

CIBICOIDES
LOBATULUS

CYCLOCYRA
INVOLVENS

DENTALINA
FRORISHIENSIS

ELPHIDIELLA
ARCTICA

0

17

9

25

2

1

50

4

1

70

CORR: 12634
LATITUDE: 47.5917

STATION: 056

SAMPLE TYPE: TWC

PAGE: 7

LONGITUDE: -62.5550

WATER DEPTH(M): 523

DEPTH
(CM) STATION
CORRECTION

NEGLIGIBLE
CORRECTION

NEGLIGIBLE
CORRECTION

NEGLIGIBLE
CORRECTION

0
25
50
75

138
136
109

1

CODR: 02034
LATITUDE: 46.4700

STATION: 056

SAMPLE TYPE: TWC

PAGE: 6

LONGITUDE: -63.5550

WATER DEPTH(M): 523

DEPTH PYROD
(CM) WILLIAMSONT

SACCAMMINA
ATLANTICA

TRIFARINA
FLUENS

TRILICULINA
TRICARINATA

FURSENKOINA
FUSIFORMIS

0

1

3

25

34

1

15

50

1

5

70

LATITUDE: 42.4543

LONGITUDE: -63.5513

WATER DEPTH(M): 522

DEPTH (CM)	PULLENIA SODANOPOLYDORATA	PULLIOPHTISIN NANUM	HAYNASPINA DRITICULARIS	PSEUDOPOLYDORPHINA NOVANGIAR	PULLENIA BULLOIDES
0	2				2
25				2	
50		1	2		
75					

LATITUDE: 47.0000

LONGITUDE: -63.4550

WATER DEPTH(M): 523

DEPTH (CM)	ISLANDITELLA MELANAE	ISLANDITELLA SORCEROSA	MARGINULINA OPESA	MELONIS 7AANDAMAE	NONTONELLINA LABRADORICA
0	12			2	153
25			1		153
50	27	28			93
75					

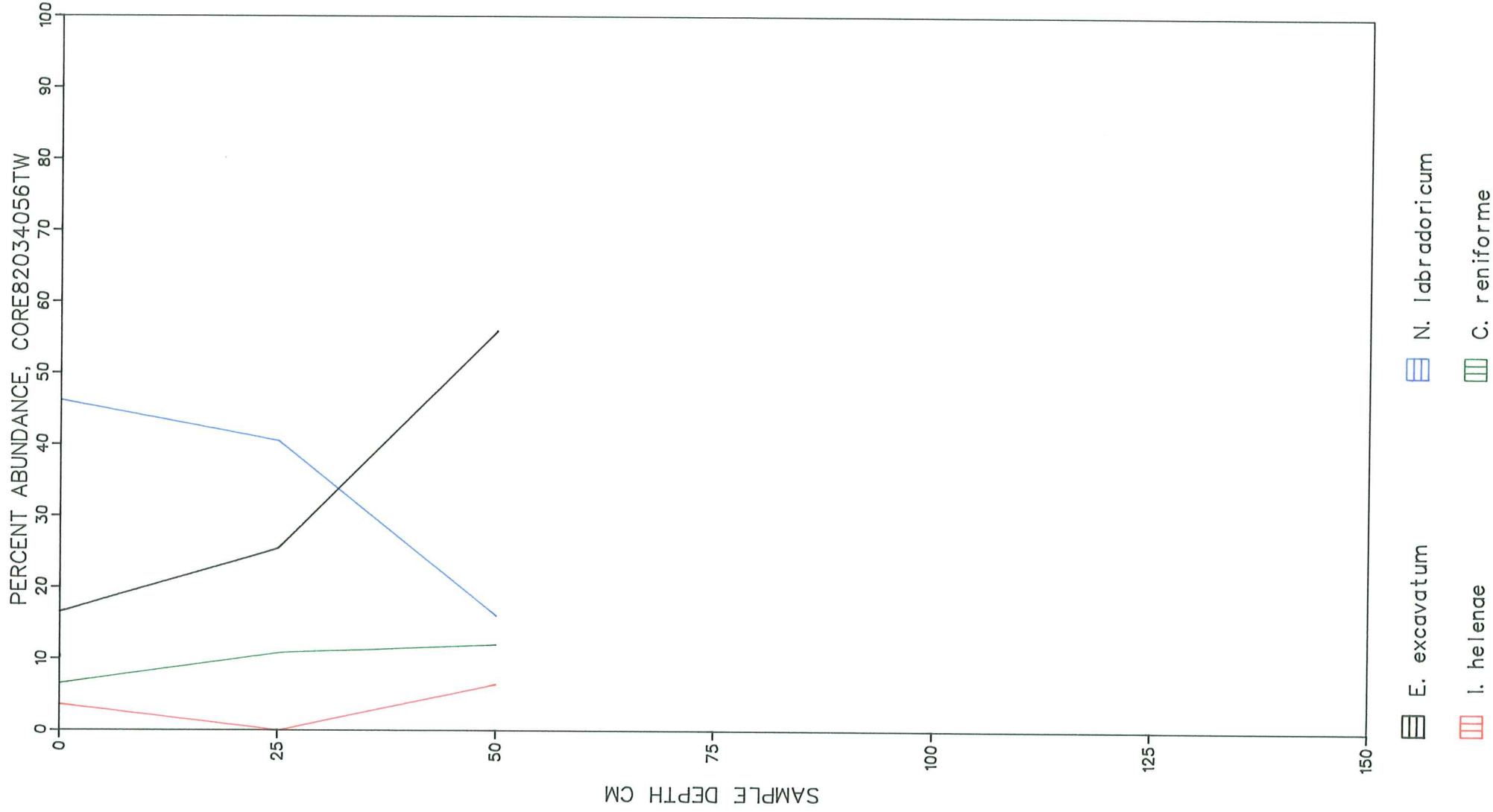
LATITUDE: 41.4517

LONGITUDE: -63.6553

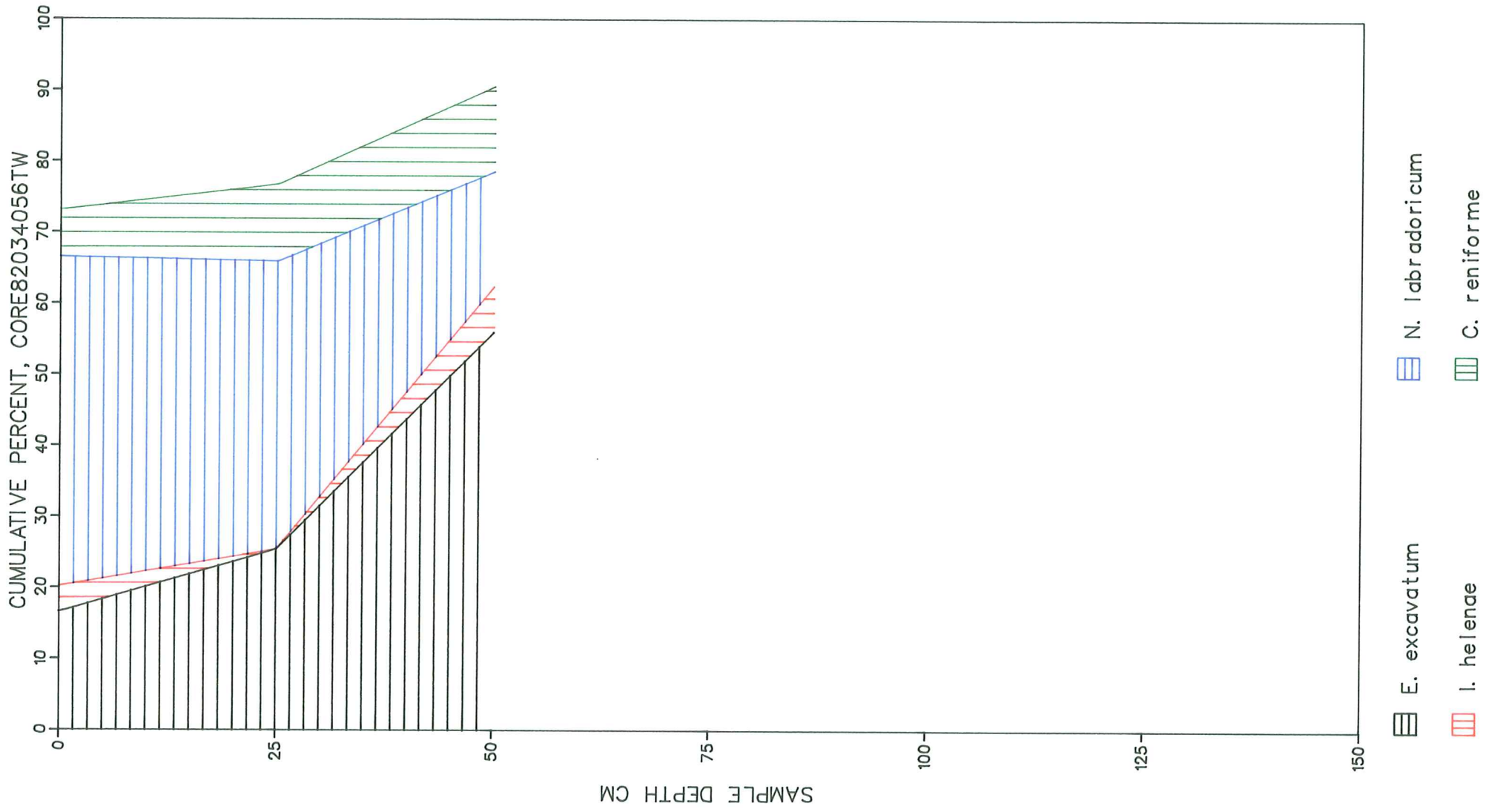
WATER DEPTH(M): 523

DEPTH (CM)	ELONIDITHUM EXCAVATUM CLAVATA	EPISTOMINELLA CYCCHA	EPISTOMINELLA VITREA	GLOBORULIMINA AURICULATA	HYPERAMMINA CYLINDRICA
0	55	2	2		2
25	06			1	
50	322			1	
70					

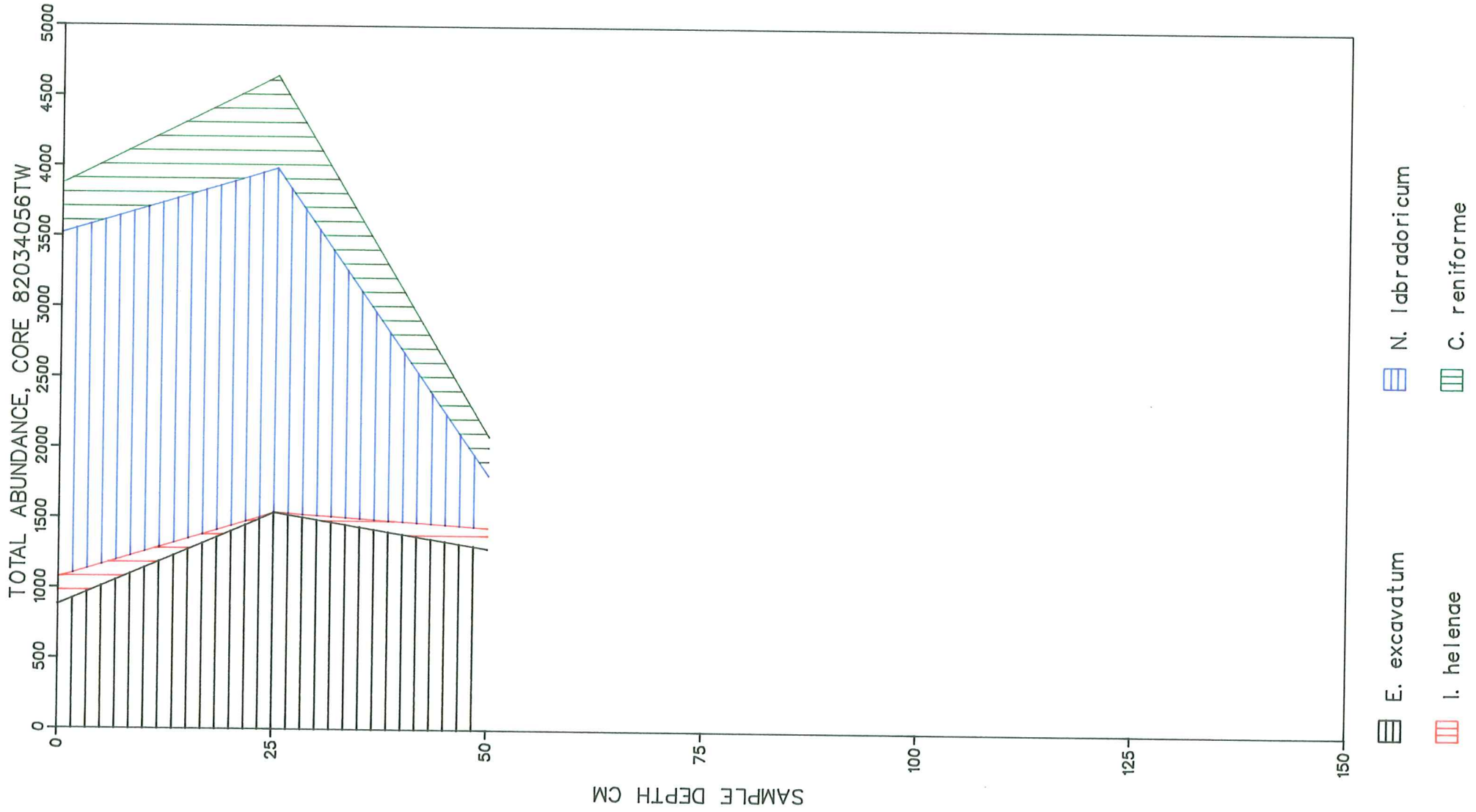
A



(b)



②



Appendix 14

82034056

Piston Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

DEPTH: 4234
 LATITUDE: 16.697

STATION: 056

SAMPLE TYPE: BENTHIS

PAGE: 1

LONGITUDE: -43.6540 WATER DEPTH: 523

INTERVAL DEPTH (CM)	10	17	25	30	37
INTERVAL WIDTH (CM)	5	5	5	5	5
SPLIT NUMBER	4	15	2	2	1

BENTHONIC FORAMINIFERA

TOTAL	26	23	4	157	82
DIVERSITY	1.69	1.45	1.04	0.95	1.71

GENUS / SPECIES

PERCENTAGES

ASTRONIDIA	CALLIDIA	2.35	0.87		
BUCCELLA	ERIGIDA	3.25			
CASSIDULINA	LAEVIGATA				1.22
CASSIDULINA	PTINIFORME	11.34	22.61	19.16	47.55
CIRRIDES	LORATULUS	11.54	1.79	0.63	3.65
ELPHIDIUM	EXCAVATUM CLA	24.82	36.09	25.00	10.98
ISLANDICELLA	HELENAE	3.85	1.31		2.40
ISLANDICELLA	MORCROSSI		0.43		3.66
MELONIS	ZANDAMAI				1.80
NONIINELLA	LARRADORICA	20.77	32.17	50.00	1.22
PSEUDOPHILINIDINAE	NOVAEGLIAE		0.43		
PYRRO	WILLIAMSONI				0.63
TEXTULARIA	CALANDA				2.44
TRILICAMINA	TRITICOLA				1.22
EUPSEUKIDINA	EUSTORMIS		1.74	4.13	3.56
STAINFORTHIA	CONCANA		2.61	25.00	15.85
				0.63	6.54

FOR/M2

TOTAL	5	14		11	3
DIVERSITY	0.80	0.93		0.99	0.90

GENUS / SPECIES

PERCENTAGES

NEOLIBIDINIDINA	BACMYDELLA ST	100.00	100.00	100.00	100.00
-----------------	---------------	--------	--------	--------	--------

INTERVAL DEPTH(CM) 40 50 50 70 90
 INTERVAL WIDTH(CM) 5 5 5 5 5
 SORT NUMBER 4 4 4 4 4

BENTHIC FORAMIFERA

TOTAL 523 399 272 87
 DIVERSITY 1.17 1.54 1.27 1.41

GENUS / SPECIES

PERCENTAGES

ADICOSTELLA	CLONIFERA		0.77	
BULMITA	PSUDOPUNCTAT		0.26	
BUCCELLA	FRIGIDA	0.40	0.25	
CASSIDULINA	LA-MIGATA	1.20	2.57	1.75
CASSIDULINA	PERFORATA	12.72	11.79	38.50
STRIGOS	LABRATUS	0.45	0.25	
ELPHIDION	YCAVATUM CLA	45.11	42.55	11.03
EPISTOMINELLA	TAKAYANACIT	0.20		21.05
EPISTOMINELLA	VITREA	0.20	1.10	
ETSCURTA	MARGINATA	0.20		
GLOBORULLINA	AURIFRATA	0.20		
GLOBULINA	LANDEST		0.27	
ISLANDJELLA	HELENA	2.55	4.87	29.41
ISLANDJELLA	NORONSEI	0.00	1.04	23.07
MELONTIS	ZANDAMA	0.20	0.24	
NONIONELLA	LARZONOTA	22.56	25.64	2.37
PROTOSTROTUM	MANUM		0.51	2.21
PULLANTA	PHYLLOIDES	0.20		
PULLANTA	DELTA		0.37	
PYROS	UTELACONT	0.20		
QUINQUELOCULINA	VINGARDI		0.81	
TRILOCULINA	TRICAPitata	0.60		
SURSTONKINA	PHOTONIS	6.15	5.40	0.74
STAINPORTIA	CONCAVA	1.90	4.17	1.75

FORAMS

TOTAL 62 51 27 24
 DIVERSITY 0.11 0.14 0.15 0.17

GENUS / SPECIES

PERCENTAGES

GLOBULINA	PHYLLOIDES		0.30	
GLOBULINA	QUINQUELOCULINA	0.20	2.72	
NEOLIBICULINA	PACHYDORINA	47.45	95.72	95.83
NEOLIBICULINA	PACHYDORINA	0.20	0.40	4.17

DEPTH (CM)	ADARBOCTEMNA CLONTRATA	ASTRIDOMONTON CALLORAYI	ROLIVINA PSEUDOPUNCTATA	BUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA
10		2.25		3.85	
17		.87			
25					
30					
37					
45					1.22
49				.40	1.39
58	.77		.26	.26	
62					
75					2.57
83					1.75
100					
120					
147					

LATITUDE: 16.40 N

LONGITUDE: -69.65 W

WATER DEPTH(M): 522

DEPTH (CM)	CASSIDULINA PUMILIPORSA	CYRTOIDIS ERRATULUS	ALPHIDIUM EXCAVATUM CLAVATA	EPISTOMINELLA TAKAYANAGII	EPISTOMINELLA VITREA
10	11.54	11.54	34.52		
17	23.61	1.74	34.09		
25			25.90		
30	10.34	.60	70.40		
37	47.54	2.45	10.08		
45	12.72	.41	48.11	.20	.20
55	11.70	.26	62.56		
62	50.04		11.03		1.10
75	31.60		21.05		
82					
100					
125			141.30		
147					

LATITUDE: 45.1501

LONGITUDE: -53.5551

WATER DEPTH(M): 523

DEPTH (CM)	PTISSULINIA MAGNATA	GLOBULINIA ABRICULATA	GLOBULINA LANDESI	ISLANDIELLA HELENAE	ISLANDIELLA NORCROSSI
10				3.85	
17				1.30	.43
25					
30				2.40	1.80
37				3.66	
45	.20	.20		3.58	.60
55				4.37	1.54
62			.27	29.41	
75				28.37	
83					
100					
125					
147					

DATE: 1993
LATITUDE: 1614.503

STATION: CFA

SAMPLE TYPE: BENTHOS

PAGE: 4

LONGITUDE: -63.6550

WATER DEPTH(M): 523

DEPTH (CM)	NO. OF SPECIMENS	PULLENIA LABRADORICA	PROIELPHIDUM NANUM	PSEUDOPOLYDORPHINA NOVANGLIAE	PULLENIA BULLOIDES
10		2.27			
17		22.17		.43	
25		50.00			
31					
37	1.22				
45	.21	22.64			.20
54	.21	22.64	.51		
63	.27	2.21			
75	1.27				
80					
100					
125					
147					

CORR: 02.94
LATITUDE: 41.0553

STATION: 056

SAMPLE TYPE: BENTHOS

PAGE: 5

LONGITUDE: -02.4550

WATER DEPTH(M): 523

DPTH (CM)	PULLIOLA POLYCESTES	DYSCO DITYLAESQNT	QUINQUELOCULINA VULGARIS	TEXTILARIA FAPLANDI	TRILOCULINA TRICARINATA
10					
17					
25					
30		.50			
37		2.44		1.22	
45		.20			.60
55			.51		
63	.27				
70					
83					
100					
125					
147					

DEPTH (CM)	IRIDIUM TRITHEMIA	GLORIGERINA SUSPENSUM	STAINBORTHIA CONCAVA	GLORIGERINA BULLOIDES	GLORIGERINA QUINQUELOBA
10					
17		1.74	2.61		
25			25.00		
30		4.19	6.60		
37	5.65	15.98	8.54		
45		6.15	1.99		
55		2.00	4.87		3.28
53		6.74		6.39	2.72
75		1.75			
83					
100					
125					
147					

DEPTH (CM) ΠΕΡΙΦΕΡΕΙΑΚΟ ΠΡΟΤΥΠΟ ΠΕΡΙΦΕΡΕΙΑΚΟ ΠΡΟΤΥΠΟ
 (CM) PACHYDERMA SINISTRAL PACHYDERMA DEXTRAL

10 100.00

17 100.00

25

20 100.00

37 100.00

42 05.65

2.35

55 01.72

53 05.00

75 43.52

4.17

83

100

125 100.00

147

CRUISE: 02094
 LATITUDE: 36.2500

STATION: 058

SAMPLE TYPE: BENTHOS

PAGE: 1

LONGITUDE: -88.5500 WATER DEPTH: 523

INTERVAL DEPTH(CM)	10	17	25	31	37
LETTERVAL DEPTH(CM)	2	2	2	5	5
SPLIT NUMBER	4	14	2	2	1

BENTHONIC FRAGMENTATA

TOTAL	26	22	4	157	92
DIVERSITY	1.50	1.45	1.04	0.95	1.71

GENUS / SPECIES

COUNTS

ASTRONOMION	CALIDONIAE	1	2		
BUCCELLA	ERTSIA	1			
CASSIDULINA	LADYCATIA				1
CASSIDULINA	BENTONIAE	2	52	22	30
CIBICIDIDAE	LOBATULUS	3	4	1	3
ELPHIDIUM	BYCANTHUS	0	93	1	0
ISLANDIELLA	HELENAE	1	2	112	4
ISLANDIELLA	NEOCASSID		1	2	3
MELONIS	ZACHARAE				1
MONTONIELLA	LABRADORICA	0	74	2	
PSEUDOPHILUM	PHILIPPI		1		
PYRGID	WILLIAMSONI			1	2
TEXTULARIA	PARLANI				1
TEXTULARIA	TERTIARIA				2
FURCULOIDIA	FURCULOIDIA		4	7	13
STAIROBOTHRIA	CRUCIATA		6	1	7

GENUS

TOTAL	8	14		11	3
DIVERSITY	1.00	1.00		0.90	0.90

GENUS / SPECIES

COUNTS

NEOGLYPTIDIA	NEOGLYPTIDIA	8	14	11	3
--------------	--------------	---	----	----	---

DEPTH: 2074
 LATITUDE: 51.7501

STATION: 255
 LONGITUDE: -53.5550

SAMPLE TYPE: BENTHOS
 WATER DEPTH: 523
 PAGE: 2

INTERVAL DEPTH(CM) 40 50 50 75 90
 INTERVAL WIDTH(CM) 5 5 5 5 5
 SORT NUMBER 4 4 4 3 4

ROMANEOIDIC FRANKINIFERA
 TOTAL
 DIVERSITY

51.2 390 272 57
 1.17 1.64 1.27 1.41

GENUS / SPECIES

COUNTS

ADEROPTERYX	CLONERATA	3	
BOULIVINA	OSCHIDIOGONCTAT	1	
BUCCELLIA	FRIGIDA	1	
CASSIDULLINA	LATVIGATA	7	1
CASSIDULLINA	PENIOPORNE	44	22
CYRILCIDES	LABRATHLIS	2	1
ELPHIDIUM	HYCAVATUM CLA	24.2	16.6
EPISTOMIAELLA	TAKAYANAGI	1	
EPITOMIAELLA	VITRESA	1	3
ETSEMATA	MARGINATA	1	
GLORIPULMONINA	AUSTRIALATA	1	
GLORIPULMONINA	LANDESI	1	
ISLANDICELLA	HELMANAI	10	10
ISLANDICELLA	MORCOPESII	3	6
MELONIS	ZAANFAYANAI	1	1
NEANTONELLINA	LARRADORTICA	2.4	10
PROTILIPUDION	MANUA	1	2
PULLENIA	RHILIDIDES	1	
PULLENIA	OSLOENSIS	1	1
PYRGO	UTELYANSONI	1	
QUINQUELOCELLINA	VILCARTI	1	2
TRILOCHELLINA	TRICARINATA	3	
PUBESCENELLA	CHSTERSWIC	2.1	2
STATNEORTHIA	CONCAVA	1.0	1.2

FORM 32
 TOTAL
 DIVERSITY

54 54 207 24
 1.11 1.14 1.15 1.17

GENUS / SPECIES

COUNTS

GLORIPULMONINA	PULLENIDES	1	
GLORIPULMONINA	QUINQUELOCELLA	2	7
NEUGLORIPULMONINA	PACHYDERMA ST	6.2	24.0
NEUGLORIPULMONINA	PACHYDERMA ST	2	23

CRUISE: 13034
EXPERIMENT: 6649101

STATION: 055
LONGITUDE: -84.6010

SAMPLE TYPE: BENTHOS
WATER DEPTH: 523

INTERVAL DEPTH(CM) 100 100 147
INTERVAL WIDTH(CM) 2 4 2
SPLIT NUMBER 2 4 2

BENTHONIC POLYCHAETUS
TOTAL 1
DIVERSITY 0.0

GENUS / SPECIES COUNTS
ELPHIDIUM EXCAVATUM CLA 1

SPRAYS
TOTAL 1
DIVERSITY 0.0

GENUS / SPECIES COUNTS
NEPHELETHYSSA RACHYDERMA ST 1

DEPTH (CM)	ASTRODONTON CALIFORNIAE	BOULIVINA PSEUDOPUNCTATA	BUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA
10	1		1	
17	2			
25				
30				
37				1
45			2	7
55	2	1	1	
63				7
75				1
83				
100				
125				
147				

LATITUDE: 41.9163

LONGITUDE: -62.6550

WATER DEPTH(M): 523

DEPTH (CM)	CASSIDULINA POMERANI	CECALOPUS LOBATUS	SIPHONUM EXCAVATUM	CLAVATA	EPISTOMINELLA TAKAYANAGII	EPISTOMINELLA VITREA
10	0	2	0			
17	52	4	83			
25			2			
30	33	1	118			
37	20	2	9			
45	66	2	242		1	1
55	66	1	156			
62	43		30			3
75	22		32			
80						
100						
125			1			
147						

DEPTH: 523
LATITUDE: 60.400

STATION: 056

SAMPLE TYPE: BENTHOS

PAGE: 3

LONGITUDE: -69.650

WATER DEPTH(M): 523

DEPTH (CM)	ESSIGILLINA MAGNETATA	CLIOGRILLINA ARTICULATA	GLOBIGLINA LANDESI	ISLANDIELLA HELENAE	ISLANDIELLA NORCROSSI
10				1	
17				3	1
25					
30				4	3
37				3	
45	1	1		18	3
55				10	6
63			1	80	
75				16	
83					
100					
125					
147					

LATITUDE: 33° 15' N

LONGITUDE: -122° 45' W

WATER DEPTH(M): 523

DPTH (CM)	MELONIA ZAANDAMAT	MONODACTYLINA LARRADORICA	PRITOPHYTIUM RANUM	PSEUDOPOLYMERPHINA NOVANGLIAE	PULLENIA BULLOIDES
10		2			
17		74		1	
25		2			
30					
37	1				
40	2	114			1
55	1	120	2		
63	1	6			
75	1				
82					
100					
125					
147					

CODE: 92034
LATITUDE: 37.4700

STATION: 056

SAMPLE TYPE: BENTHOS

PAGE: 5

LONGITUDE: -63.6550

WATER DEPTH(M): 523

DEPTH (CM)	PULLARIA POLYDORUS	BYSSO MYLIAMMONT	QUINQUELOCULINA VILGARIS	TEXTULARIA EARLANDI	TRILOCULINA TRICAPINATA
30					
17					
25					
20		1			
37		2		1	
45		3			3
55			2		
62	1				
75					
93					
100					
125					
147					

DEPTH (CM)	TRYPANUM TRYPANUM	FRSSENKOHNA FRSSENKOHNA	STAINFORTHIA CONCAVA	GLORIGERINA BULLOIDES	GLORIGERINA QUINQUELOBA
30					
37		4	6		
45			1		
52		7	1		
59	2	13	7		
66		31	10		
73		22	19		2
80		2		1	7
87		1			
94					
101					
108					
115					
122					
129					
136					
143					
150					
157					
164					
171					
178					
185					
192					
199					
206					
213					
220					
227					
234					
241					
248					
255					
262					
269					
276					
283					
290					
297					
304					
311					
318					
325					
332					
339					
346					
353					
360					
367					
374					
381					
388					
395					
402					
409					
416					
423					
430					
437					
444					
451					
458					
465					
472					
479					
486					
493					
500					
507					
514					
521					

CORR: 00004
LATITUDE: 43.250

STATION: 055

SAMPLE TYPE: BENTON

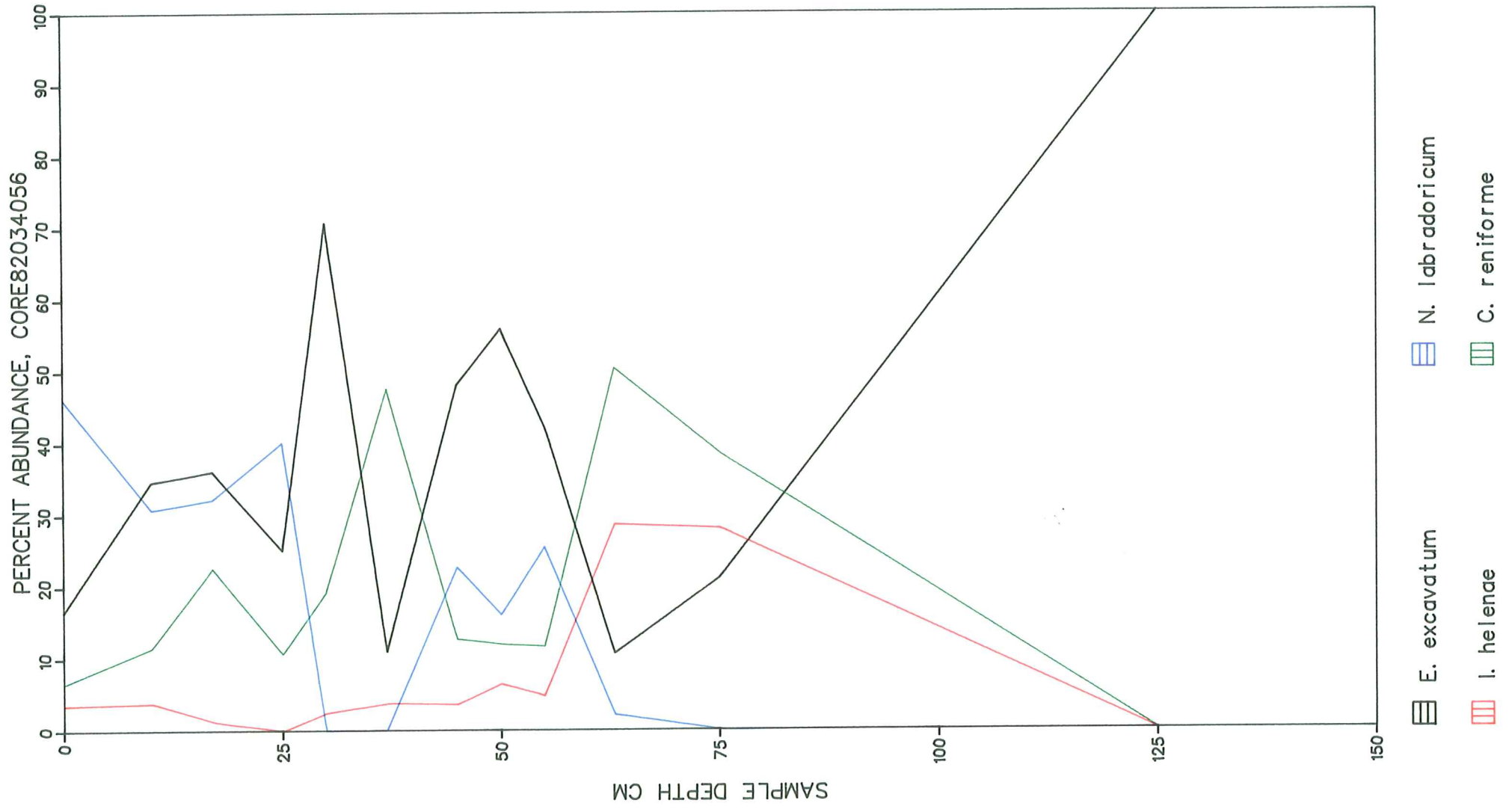
PAGE: 7

LONGITUDE: -68.6550

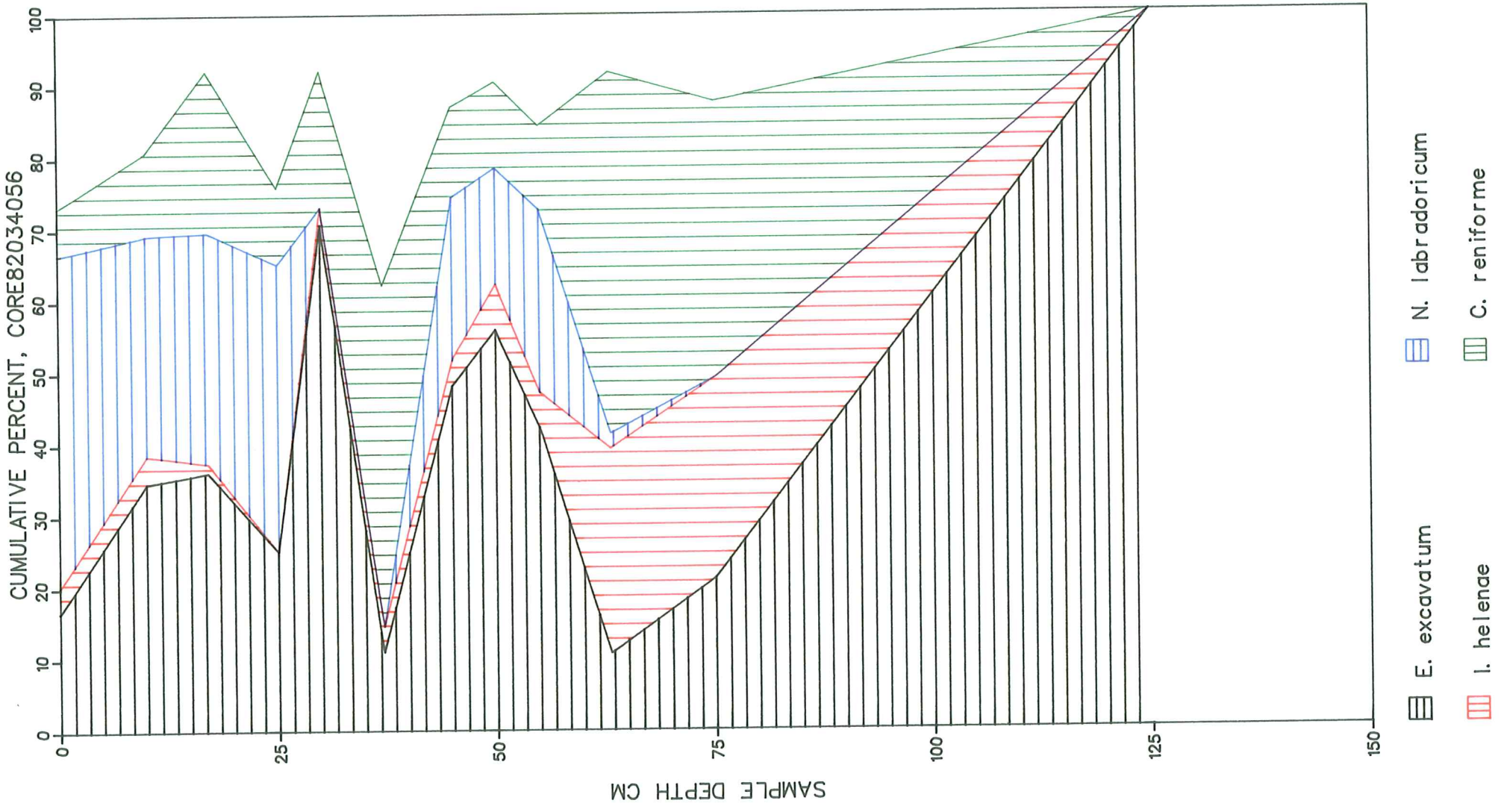
WATER DEPTH(M): 523

DEPTH (CM)	NEOCYPRIDINAE PACHYDERMA SINISTRAL	NEOCYPRIDINAE PACHYDERMA DEXTRAL
10	5	
17	14	
25		
30	11	
37	2	
45	63	2
55	50	
62	260	
75	22	1
82		
100		
125	1	
147		

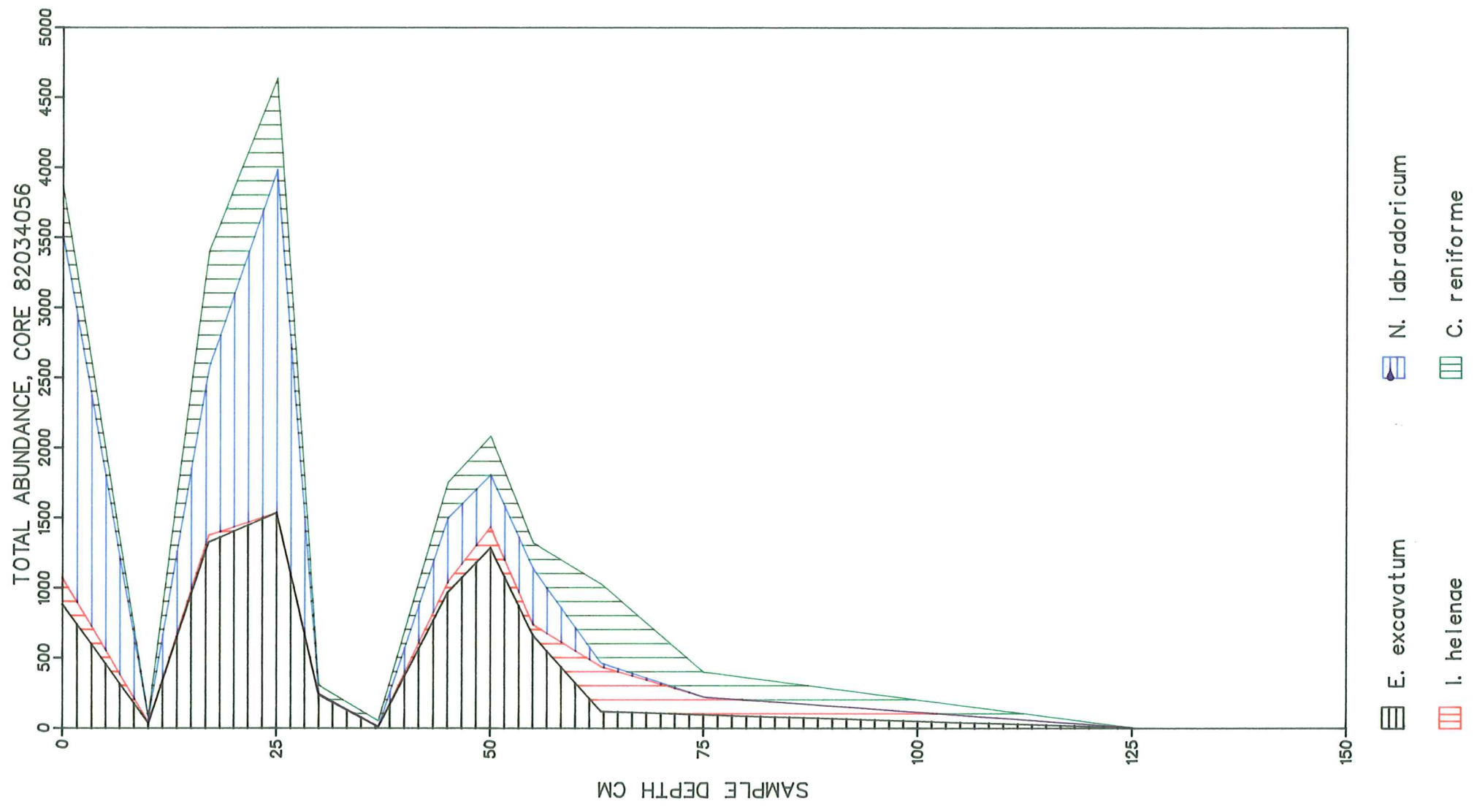
A



(B)



C



Appendix 15

82034057

Piston Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

LATITUDE: 41.7791

LONGITUDE: -83.8283

WATER DEPTH: 0

INTERVAL DEPTH (CM)	0	25	50	75	100
INTERVAL WIDTH (CM)	5	5	5	5	5
SPLIT NUMBER	4	4	4	4	4

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY	476	54	45	404	370
	1.15	1.61	1.14	1.97	1.60

GENUS / SPECIES

PERCENTAGES

ASTRODONTON	CALLONIA	.62				.81
BOLENTINA	OSUDORHINCTAT	.21			.25	
BUCCELLA	ERICIDA	.21				
CASSIDULINA	RENIFORMIS	20.08	31.48	37.78	23.75	41.62
CRUCIOLUS	LOBRATHLUS	1.67	1.65		1.73	2.16
ELPHIDIELLA	ARCTICA		1.05		.25	
ELPHIDIUM	EXCAVATUM CLA	45.22	31.48	23.00	29.21	25.95
EUPHONTOELLA	BULCHIELLA				.25	
EPISTOMIHELLA	VITREA				.25	.27
EPONIDIA	BRADYI				.74	.27
GLORIOBULMINA	AURICULATA	.84			.25	
ISLANDIELLA	HELENAE	1.67	7.41		4.95	15.95
ISLANDIELLA	MOROSOSA				.74	.27
LENTICULINA	STRY	.21			.25	
MELONIS	ZAMBAMAR	.42				1.08
MONITORIINA	LAPPADORICA	21.24	5.55	2.22	14.85	7.57
ODITNA	CANDIDUS	.42				.27
PAPAEUSPHERINA	UJHATOSTOMA					.27
PRITELPHIDIUM	NAMIN	.63				
PULICULA	OSLOENSTIS				.50	
PYROD	WILLIAMSONI	.62				
RORIPYIMOLUS	CHARLOTTESTIS	.63	1.95			
STYLIOSIGMOTILINA	CRUCIANDICA				.25	.27
TRILUCULINA	TRICARINATA		1.85			
FUSINOTINA	FUSIFORMIS	1.67		40.00	15.59	1.35
STALIFURTHIA	CONCANA	2.93			5.19	1.89

FORAM?

TOTAL DIVERSITY	44	32	14	58	317
	.11	.07	.26	.09	.06

GENUS / SPECIES

PERCENTAGES

GLORIOBULMINA	BULLIOLITES				1.72	.32
NEOGLOBORQUADRINA	PACHYDEPMA ST	97.72	100.00	92.56	98.28	90.05
NEOGLOBORQUADRINA	PACHYDEPMA DE	2.27		7.44		.63

CRUISE: 02034
 LATITUDE: 43° 7' 93"

STATION: 097

SAMPLE TYPE: PISTON

PAGE: 2

LONGITUDE: -53.8293 WATER DEPTH: 0

INTERVAL DEPTH(CM)	100	125	135	135	150
INTERVAL WIDTH(CM)	1	1	1	1	15
SPLIT NUMBER	16	15	2	2	2

PLANKTONIC FORAMINIFERA

TOTAL	744	342	14	40	184
DIVERSITY	1.59	1.99	1.43	1.54	1.58

GENUS / SPECIES

PERCENTAGES

ASTRIDINELLA	CALLIDINELLA	0.13	0.28		2.50	
BOLIVINA	PSEUDOPUNCTAT	0.27				
BUCCELLA	BOUSSINIA	0.13		7.14	2.50	
CASSIDULINA	LAVIATATA	0.64	3.22			
CASSIDULINA	DELIATATA	40.24	21.34	50.00	45.00	18.48
CTIPLOCYCC	LOPATELLUS	1.06	2.34		5.00	0.54
ELPHIDIELLA	AECTICA		0.29			
ELPHIDIUM	EXCAVATUM CLA	10.07	15.95	7.14	22.50	35.33
EPTSTROPHINELLA	TAKAYAMAIA	0.27				
EPININUS	PRADYS		0.29			
ISLANDICELLA	HILINAE	17.77	10.30	21.43	10.00	6.43
ISLANDICELLA	EXCAVATUM		0.29			
MELONIS	TAANDAMAI	1.20	2.63			
MONIQUILLINA	LARRABORICA	5.27	3.51	7.14	2.50	17.39
HAYNASENA	ORPICHILAE				2.50	
PULLINIA	DELIATATA	0.13	1.17			0.54
PYRRO	WILLIAMSII		0.51			0.54
ROBERTINOIDES	CHARLOTTENSIS		0.29			
TRIFARTIA	ELIENS	0.13				
TRILICULINA	TRICAPINATA		0.51			
EUPSEPHININA	EUPSEPHINIS	2.03	7.31	7.14	7.50	21.29
STAINFORTHIA	CONCAVA	1.20	2.07			0.54

FORAM?

TOTAL	312	214	1	1	14
DIVERSITY	0.08	0.12	0.00	0.00	0.00

GENUS / SPECIES

PERCENTAGES

GLORIGERINA	PULLIDINUS	0.22	1.27			
NEOGLORIGERINA	PACHYDERMA ST	98.72	97.77	100.00	100.00	100.00
NEOGLORIGERINA	PACHYDERMA DE	0.06	0.96			

LATITUDE: 31.7703

LONGITUDE: -63.8238

WATER DEPTH: 0

INTERVAL DEPTH(CM)	0-75	75-150	150-225	225-300	300-375
INTERVAL WIDTH(CM)	75	75	75	75	75
SPLIT NUMBER	1	2	14	14	32

BENTHONIC FORAMINIFERA

TOTAL	70	20	248	765	384
DIVERSITY	1.78	1.19	1.90	1.50	1.63

GENUS / SPECIES

PERCENTAGES

ASTRONONTINA	CALLICAMMI			.52	.78
BUCCELLA	CRUCIDA		1.61	.35	
CASSIDULINA	LABYRINTHA		2.65	.26	1.30
CASSIDULINA	PERIPHOEA	21.45	43.80	15.32	44.13
CRUCIDES	LABRATULES		.21	2.57	1.82
ELPHIDTELLA	DECTICA			.13	
ELPHIDIUM	EXCAVATUM CIA	26.58	30.00	24.19	23.53
EPISTOMINELLA	VITREA		1.21	.13	
EPONTDES	PRADYT		1.21	.39	
ETSSURINA	LUCIDA		.40	.13	.26
GLABRILLIMINA	ARTICULATA			.13	
ISLANDIELLA	ULLENAS	6.33	20.00	34.65	18.67
ISLANDIELLA	PROBOSCI				.26
MELONTS	ZAMBAYAR		2.42	.71	1.62
MONTONIELLA	LARRABRYCA	5.16		2.82	3.26
POLINA	CALYPTORA				.26
PROTELEPHIDUM	NANUM			.39	.73
UYNASENA	PORTCHLARE		5.38		
PULLINIA	OSIGENSIS		1.21	.30	
RYROR	WILLIAMSONI	3.10		6.45	.39
TRILUCHELLINA	TRICARPINATA			.13	
FUKSINKOTINA	SUSTOPHIS		.40	1.05	.78
STATNEOPHIA	CONCAVA	10.13		1.61	1.31

FORAMS

TOTAL	3	5	144	185	151
DIVERSITY	1.00	1.00	1.08	1.12	1.08

GENUS / SPECIES

PERCENTAGES

GLABRIGERINA	PHILIDDES			.54	.56
NEOGLOBOBOLINIDINA	PACHYDERMA ST	100.00	100.00	94.51	98.68
NEOGLOBOBOLINIDINA	PACHYDERMA DI			.60	1.61

LATITUDE: 31.7703

LONGITUDE: -59.5273

WATER DEPTH: 0

INTERVAL DEPTH (CM)	300	320	325	350	375
INTERVAL WIDTH (CM)	1	5	5	5	5
SPLIT NUMBER	14	8	14	2	15

BENTHONIC FORAMINIFERA

TOTAL	447	39	230	204	25
DIVERSITY	3.58	1.24	1.75	1.52	1.33

GENUS / SPECIES

PERCENTAGES

BUCCELLIA	ERICIDA	.45		.43		.35	4.00
CASSIDULLINA	LAEVIGATA	.01		2.17		.35	
CASSIDULLINA	PENTACOME	24.02	56.20	51.20	87.54		60.00
STRICIDES	ERRATILUS	.25		2.17			
ELPHIDIUM	TYCAYATHUM CLA	31.07	6.74	4.35	3.17		12.00
ERTSTOMATULA	VITREA	.64	1.12	0.12			
ISLANDIELLA	HELIOMAR	74.15	7.57	21.87	2.11		4.00
ISLANDIELLA	NEOCASSI	.23			.35		
MELONTES	ZEPHYRUS	.13	7.67	5.52	2.55		12.00
NONIONELLA	LAPPADORICA	12.47		1.30			
PROTODORIS	NANUM	.23					
PULLERIA	PULLERIDIS			1.74			
PULLENTA	PSIDONIS			6.34	1.41		
BYRDA	UTILLIACANT		1.12				
STILICUSIUM	GRONLANDICA			.43			
TRILUCIUM	TRYHEDA		6.74	2.41	1.41		4.00
FURCULONIA	EUSTRUMIS	.45	1.12	.37	.35		4.00
STATIDORIS	CONCANA	.91	1.12		.35		

EPOCH 2

TOTAL	265	50	303	65	20
DIVERSITY	1.08	.23	1.10	1.00	.00

GENUS / SPECIES

PERCENTAGES

GLORIGERINA	PULLERIDIS			.66			
GLORIGERINA	GRONLANDICA		2.33				
NEOGLOBORINIA	PACHYDERMA ST	98.49	95.00	93.35	100.00		100.00
NEOGLOBORINIA	PACHYDERMA OF	1.51	2.67	.65			

LATITUDE: 11.7703

LONGITUDE: -53.8249

WATER DEPTH: 0

INTERVAL DEPTH(CM)	400	425	430
INTERVAL WIDTH(CM)	5	5	1
SPLIT NUMBER	16	16	8

BENTHONIC FORAMINIFERA

TOTAL	34	34	41
DIVERSITY	1.10	1.15	1.11

GENUS / SPECIES

PERCENTAGES

CASSIDULINA	BENTONELLA	40.71	84.71	70.49
CYRILLIDES	LORATULUS	1.79		3.28
ELPHIDIUM	EXCAVATUM CL	2.92	8.12	3.28
EPISTOMINELLA	VITREA	3.57		
EPHODIUS	SEADYI			1.44
ISLANDIELLA	HELENAL	5.26	14.71	3.28
MELONIS	ZAMPARATI	5.35	2.94	11.48
PHILENTA	JULIENI	2.57		
TRILOCULINA	TRIMEDA	2.57	5.88	4.02
FURSENKOVINA	ENSTROMIUS	2.57	2.94	1.44
STAINBROTHIA	CONCAVA	2.57		

FORAMS

TOTAL	20	19	23
DIVERSITY	0.60	0.21	0.00

GENUS / SPECIES

PERCENTAGES

NEOGLOBORQUADRINA	PACHYDERMA ST	100.00	94.74	100.00
NEOGLOBORQUADRINA	PACHYDERMA DE		5.26	

LATITUDE: 43.7293

LONGITUDE: -63.4203

WATER DEPTH(M): 0

DEPTH (CM)	ASTRONOTION GALLONAY	BULLIVINA PSEUDOPUNCTATA	RUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME
0	.40	.21	.21		20.08
25					31.48
50					37.78
75		.20			23.75
100	.41				41.62
110	.32	.27	.13	.56	48.28
125	.00			3.22	35.09
125			7.14		50.00
170	1.00		2.50		45.00
180					18.48
175					31.65
200					45.00
225			1.61	5.65	15.32
250	.12		.39	.26	44.13
275	.70			1.30	40.63
300			.45	.91	34.92
320					66.29
325			.43	2.17	51.30
350			.30	.35	87.68
375			4.00		60.00
400					50.71
425					64.71
430					70.49

LATITUDE: 41.7793

LONGITUDE: -93.9283

WATER DEPTH(M): 0

DEPTH (CM)	CORALS CORALITHEUS	LEPIDIDELLA ARCTICA	LEPIDIDIUM EXCAVATUM	CLAVATA	BOERHONIDELLA PULCHELLA	EPTSTOMINELLA TAKAYANAGII
0	1.47		40.23			
25	10.52	1.88	31.48			
50			20.00			
75	1.73	.25	29.21		.25	
100	2.14		25.98			
125	2.56		18.97			.27
150	2.27	.20	18.95			
175			7.14			
200	5.10		22.50			
250	2.54		35.33			
175			26.58			
200			30.00			
225	.51		24.19			
250	2.87	.12	23.63			
275	2.82		22.92			
300	3.34		21.97			
325			0.74			
350	2.17		4.35			
375			3.17			
400			12.00			
425	1.70		8.93			
450			8.82			
475	2.20		3.25			

LATITUDE: 41.7701

LONGITUDE: -63.9292

WATER DEPTH(M): 0

DEPTH (CM)	CHRISTMINELLA VITREA	SPINIDES BRADYI	FISSURINA LUCIDA	GLORORULIMINA AURICULATA	ISLANDIELLA HELENAE
0				.84	1.67
25					7.41
50					
75	.21	.74		.25	4.95
100	.27	.27			15.95
110					17.77
125		.20			19.30
125					21.43
136					10.00
150					5.43
175					6.33
200					20.00
225	.23	1.21	.40		34.68
250	.33	.50	.13	.13	18.67
275			.25		21.09
300	.65				14.06
320	1.12				7.87
325	0.12				10.87
350					2.11
375					4.00
400	2.17				5.36
425					14.71
432		1.54			3.28

DPTH (CM)	ISLANDIELLA MORCROSSI	LINTICULINA CERRA	MELONIS 7AANDAMAE	MONTONELLINA LABRADORICA	OLLINA CAUDIGERA
0		.21	.42	21.34	.42
25				5.56	
50				2.22	
75	.74	.25		14.85	
100	.27		1.09	7.57	.27
110			1.19	6.37	
125	.78		2.63	3.51	
135				7.14	
136				2.50	
150				17.39	
175				5.56	
200					
225			2.42	2.82	
250			.78	3.26	
275	.24		1.32	5.99	.26
300	.22		1.13	12.47	
320			7.67		
325			6.52	1.30	
350	.25		2.46		
375			12.36		
400			5.26		
425			2.94		
433			11.48		

DPTH (CM)	PARASCIPHONA HEMATELSTOMA	BOHICLPHIDIUM VAMIN	HAYNASPINA DORTCHLARE	PULLENIA BULLOIDES	PULLENIA OSLOENSIS
0		.03			
25					
50					
75					.50
100	.27				
110					.13
125					1.17
135					
145			2.50		
150					.54
175					
200			5.00		
225					1.21
250		.39			.39
275		.70			
300		.23			
320					
335				1.74	6.09
350					1.41
375					
400					2.57
425					
433					

CORE: 20 24
LATITUDE: 01.7701

STATION: 087

SAMPLE TYPE: PISTON

PAGE: 6

LONGITUDE: -68.8284

WATER DEPTH(M): 0

DPTH (CM)	BYRON WILLIAMSONT	BORERTYRIDES CHARLOTTENSIS	SILICOSTYGMOTILINA GROENLANDICA	TRIFARINA FLUENS	TRILOCULINA TRICARINATA
0	.60	.79			
25		1.00			1.85
50					
75			.25		
100			.27		
110				.13	
125	.65	.29			.58
145					
175	.64				
175	1.00				3.60
200					
225	.40				
250	.29				.13
275	.21				
300					
320	1.12				
325			.42		
350					
375					
400					
425					
432					

LATITUDE: 61.7701

LONGITUDE: -62.8283

WATER DEPTH(M): 0

DEPTH (CM)	TROCHILINA TRIPHYXA	PERNERKOTNA EUSIOPHIS	STAINOPHTHA CONCAVA	GLORIGERINA BULLOIDES	GLOBIGERINA QUINQUELOBA
0		1.47	2.03		
25					
50		40.00			
75		14.89	1.19	1.72	
100		1.35	1.89	.32	
110		2.52	1.33	.32	
125		7.21	2.35	1.27	
135		7.14			
136		7.51			
150		21.20	.54		
175		12.66	10.12		
200					
225		.40	1.61	.59	
250		1.06	1.31	.54	
275		.73	1.04	.56	
300		.60	.91		
320	1.74	1.12	1.12		3.33
325	2.61	.17		.66	
350	1.61	.35	.35		
375	4.00	4.00			
400	3.27	3.27	3.27		
425	1.04	2.04			
433	1.02	1.64			

CORR: 02026
LATITUDE: 41.7793

STATION: 157

SAMPLER TYPE: PISTON

PAGE: 8

LONGITUDE: -67.4293

WATER DEPTH(M): 0

DEPTH (CM)	NEOCLERODIADRINA PACHYDERMA CENTRAL	NEOCLERODIADRINA PACHYDERMA DISTAL
0	57.79	2.27
25	22.00	
50	22.00	7.14
75	01.00	
100	49.00	.69
110	02.70	.06
125	07.77	.06
125	107.00	
126	100.00	
150	111.00	
175	101.00	
200	100.00	
225	01.61	.60
250	07.00	1.41
275	0.00	.66
300	0.00	1.51
320	49.00	1.57
325	01.00	.00
350	100.00	
375	101.00	
400	100.00	
425	94.74	4.26
433	100.00	

COUNTS: 12824
 LATITUDE: 51.7702

STATION: 077

SAMPLE TYPE: PISTON

PAGE: 1

LONGITUDE: -63.8293 WATER DEPTH: 0

INTERVAL DEPTH(CM) 0 25 50 75 100
 INTERVAL WIDTH(CM) 5 5 5 5 5
 SPLIT NUMBER 4 1 4 16 16

BENTHONIC FORAMINIFERA

TOTAL 479 64 48 434 370
 DIVERSITY 1.58 1.51 1.14 1.97 1.50

GENUS / SPECIES

COUNTS

ASTRIDINIDAE	CALLIPWAYI	2				3
BULIVINA	DETHLEFSENICAT	1			1	
BUCCELLIA	FRIGIDA	1				
CASSIDULINA	LENTICULUS	96	17	17	96	154
CIRRICTIDES	LEPTATHLUS	6	16		7	8
ELPHIDIUM	ARCTICA		1		1	
ELPHIDIUM	CYCARATHINUS	227	17	9	128	96
EPIDONNIDELLA	PULCHRELLA				1	
EPISTOMINELLA	VITRELLA				1	1
EPONIDES	ARADYT				3	1
GLOROBULININA	ARTICULATA	4			1	
ISLANDINELLA	HELENAS	0	4		23	50
ISLANDINELLA	MOROSUSI				3	1
LENTICULINA	CITRA	1			1	
MELONIS	ZANBAGANAE	2				4
MONTONELLINELLA	LARADICTICA	106	2	1	63	28
ODDINA	CANDICERA					1
PARAETISSURINA	HYMATIOTONNA					1
PROTODONNIDINUM	NANUM	3				
PULLENIA	DISIDENSIS				2	
PYRGO	WILLIAMSONI	2				
ROBERTINOTULUS	CHARLOTTENSIS	2	1			
SILICOSPIONELLA	CRISTALLINATA				1	1
TRILOCULINA	TRICARINATA		1			
FURSENYOTINA	CRISTIFORMIS	4		18	63	6
STATNEORTHIA	CONCAVA	14			25	7

FORAM?

TOTAL 44 33 14 58 317
 DIVERSITY 1.11 1.00 1.26 1.09 1.06

GENUS / SPECIES

COUNTS

GLORIBULINA	RHILLOIDES				1	1
NEOCLOBOLINARIA	PACHYDERMA	43	32	13	57	314
NEOCLOBOLINARIA	PACHYDERMA	1		1		2

CRUISE: 02194
 LATITUDE: 50.7701

STATION: 457
 LONGITUDE: -63.9212

SAMPLE TYPE: PELTON
 WATER DEPTH: 6

PAGE: 2

INTERVAL DEPTH(CM) 125 125 125 125 150
 INTERVAL WIDTH(CM) 5 5 5 5 5
 SPLIT NUMBER 14 15 2 2 2

BENTHONIC FORAMINIFERA

TOTAL 754 342 14 40 124
 DIVERSITY 1.53 1.59 1.43 1.64 1.58

GENUS / SPECIES

COUNTS

ASTROBONINUM	CALLIPHYM	1	3		1	
BOLIVINA	PSUDODORRHOICAT	2				
BUCCELLA	FRIGIDA	1		1	1	
CASSIDULINA	LABRIGATA	4	11			
CASSIDULINA	PERISCORPE	364	120	7	10	24
CYPRIDINUS	LOBATHINUS	14	1		2	1
ELPHIDIELLA	ARCTICA					
ELPHIDIUM	EXCAVATUM CIA	143	50	1	9	65
EPISYRINELLA	TAKAYANAGII	2				
EPININUS	PRADYI		1			
ISLANDIELLA	HELENAL	124	55	3	4	10
ISLANDIELLA	HERCULES		2			
MELONIS	ZAANDAMAL	0	0			
MONITORIELLA	LAPIDORRHOICA	49	12	1	1	32
HAYNALINA	ORBITALIS					
PHILIPINA	PSIDENSIS	1	4			1
PYRRO	WILHELMSONI		12			1
ROBERTININUS	CHARLOTTENSIS		1			
TRIFARTIA	ELIENS	1				
TRILOCULINA	TRICARENATA		2			
FUSCOPHOSINA	FUSIFORMIS	10	20	1	3	30
STAINBORTHIA	CONCAVA	10	7			1

FORAM?

TOTAL 213 314 3 11 14
 DIVERSITY 1.08 1.12 1.00 1.00 1.00

GENUS / SPECIES

COUNTS

GLORIOSINA	TRILOCULINUS	1	4			
NEOGLOBOBULININA	PACHYDORRHOICA ST	200	207	1	11	14
NEOGLOBOBULININA	PACHYDORRHOICA DE	3	3			

DEPTH: 0004
 LATITUDE: 612700

STATION: 107
 LONGITUDE: -63.4288

SAMPLE TYPE: PISTON
 WATER DEPTH: 0

PAGE: 3

INTERVAL DEPTH (CM)	175	200	225	250	275
INTERVAL WIDTH (CM)	5	5	5	5	5
SECT NUMBER	1	2	16	15	32

BENTHONIC FORAMINIFERA

TOTAL	70	20	240	766	384
DIVERSITY	3.78	1.19	1.90	1.63	1.63

GENUS / SPECIES

COUNTS

ASTRORHYNCHON	CALQUAYI			4	3
RHOCYCLIA	ERICIDA			3	
CASSIDULINA	LACVIGATA			2	5
CASSIDULINA	PENTACOME	25	0	38	156
CYPTOCYPRID	LORATHILUS			2	7
ELPHIDIELLA	ARCTICA			1	
ELPHIDIUM	EXCAVATUM CLA	23	6	50	38
EPISTOMINELLA	VITREA			3	
EPINIDES	BRADYI			3	
ETSURINA	LUCIDA			1	1
GLOBORHYNCHINA	TRICHLATA			1	
ISLANDICELLA	HELENAE	8	4	84	91
ISLANDICELLA	MOOREI				7
MELONIS	ZAANDAMAE			6	
MONTONELLA	LARSENICIA	4		7	23
OPITINA	CAUDATA				3
PROTILPHIDIUM	MANUM			3	
HAYMASINA	PROBILLOPE		1		
PULLENTA	SCOTICUS			3	
PYRRO	WILLIAMSONI	3		16	1
TROCHILINA	TRICAMINATA	3		1	
FURCULINATA	FUSIFORMIS	10		1	3
STAINBOTHIA	CONCAVA	9		4	4

FORAMS

TOTAL	0	5	144	186	151
DIVERSITY	0.0	0.0	0.89	0.12	0.08

GENUS / SPECIES

COUNTS

GLOBORHYNCHINA	PULLENTIS	6	5	1	1
NEOGLOBORHYNCHINA	PACHYDERMA ST			142	140
NEOGLOBORHYNCHINA	PACHYDERMA DE			1	1

TEST INTERVAL DEPTH (CM) 300 320 325 350 375
 INTERVAL WIDTH (CM) 15 15 15 25 25
 SPLIT NUMBER 16 8 16 2 16

IDENTIFIC. FORAMINIFERA
 TOTAL 441 80 230 204 25
 DIVERSITY 1.58 1.24 1.75 1.52 1.33

GENUS & SPECIES		COUNTS				
BUCCELLIA	ERICINA	2			1	1
CASSIDULINA	LABRIGATA	4			1	
CASSIDULINA	RENTIFORMIS	154	80	118	243	15
CIRROCIDES	LORATHILUS	6				
ELPHIDIUM	EXCAVATUM CLA	141	6	10	9	3
EPLISTOMINELLA	VITREA	3		23		
ISLANDIHELLA	HELLMAG	62	7	25	6	1
ISLANDIHELLA	NEPESSESI	1			1	
MELONIS	ZAMBRANAI	5	7	15	7	3
NONIONELLINA	LABRADORICA	54		3		
PROTODRITUM	NANUM	1				
PILLENITA	SILICIDES			4		
PULLINIA	OSLOENSIS			14	4	
DYOCID	WILLIAMSONI		1			
STILICOSTICHELINA	GREENLANDICA			1		
TRILUCILINA	TRIMERA		5	6	4	1
FURCENKONIA	FURCIFORMIS	2		2	1	1
STATHMORHIA	CONCIVA	4	1		1	

FRAMM?
 TOTAL 265 60 303 65 20
 DIVERSITY 1.58 1.23 1.10 1.03 1.00

GENUS & SPECIES		COUNTS				
GLORIOBERTINA	PHILOPHIS			2		
GLORIOBERTINA	OHIOQUELORPA		2			
NEOGIQUORHARTINA	PACHYDERMA SI	261	57	298	65	20
NEOGIQUORHARTINA	PACHYDERMA DE	4	1	3		

DATE: 02/24/64
 LATITUDE: 43.7701

STATION: 097

SAMPLE TYPE: PLANKTON

PAGE: 5

LONGITUDE: -63.8283

WATER DEPTH: 0

INTERVAL DEPTH (CM) 400
 INTERVAL WIDTH (CM) 2
 SPLIT NUMBER 16

BACTERIOPLANKTON
 TOTAL 44
 DIVERSITY 1.70

GENUS / SPECIES				COUNTS
CASSIDULINA	RECTIFORMIS	24	22	43
CIRRICTIDES	LEPTANTHUS	1		2
FLORIDITHUM	TYCANTHUM	5	3	2
EPISTOMINELLA	MYTREA	2		1
EPONIDIES	BRADYS			1
ISLANDIELLA	USIONAE	3	5	2
MELONITES	ZEAMONAE	2	1	7
PILLENIA	DISCOPUS	2		
TRILUCCHINA	TRILUCCHA	2	2	2
EUSSEKOTINA	EUSSEKOTIS	2	1	1
STATICEPTERON	CONCAVA	2		

FORMA 42
 TOTAL 20
 DIVERSITY 1.81

GENUS / SPECIES				COUNTS
MELONITES	PACHYDERMA	20	10	22
MELONITES	PACHYDERMA		1	1

CODE: 0024
LATITUDE: 41.7293

STATION: 057

SAMPLE TYPE: PTSTON

PAGE: 1

LONGITUDE: -63.8283

WATER DEPTH(M): 0

DEPTH (CM)	ASTRIDACTYLON CALLIPRAXI	BOLETINA PSEUDOPUNCTATA	SUCCELLIA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME
0	0	1	1		96
25					17
50					17
75		1			96
100	0				154
110	1	0	1	5	964
125	0			11	120
125			1		7
125	1		1		18
150					34
175					25
200					9
225			4	14	38
250	4		3	2	338
275	0			5	156
300			2	4	154
320					59
325			1	5	118
350			1	1	249
375			1		15
400					34
425					22
433					43

CODE: 4234
LATITUDE: 41.7791

STATION: WFT

LONGITUDE: -69.9283

SAMPLE TYPE: PISTON

PAGE: 2

WATER DEPTH(M): 0

DEPTH (CM)	CYPRIDINES LOBATILUS	LEPIDIDIELLA ARCTICA	ELPHIDIUM EXCAVATUM	CLAVATA	BOEPOSTIDELLA PULCHELLA	EPISTOMINELLA TAKAYANAGII
0	0		221			
25	10	1	17			
50			9			
75	7	1	119		1	
100	0		94			
110	14		143			2
125	0	1	58			
130			1			
134	0		9			
150	3		65			
175			21			
210			6			
225	0		50			
250	25	1	191			
275	7		69			
300	4		141			
320			4			
325	0		10			
350			9			
375			2			
400	1		5			
425			3			
450	0		0			

LATITUDE: 41.7791

LONGITUDE: -63.8283

WATER DEPTH(M): 0

DEPTH (CM)	EPISTOMELLA VITREA	EPONIDES PRADYI	FISSURINA LUCIDA	GLORBULIMINA AURICULATA	ISLANDIELLA HELENAE
0				4	8
25					4
50					
75	1	2		1	20
100	1	1			59
110					134
125		1			66
130					3
136					4
150					10
175					5
200					4
225	3	2	1		86
250	1	1	1	1	143
275			1		81
300	2				62
320	1				7
325	23				25
350					6
375					1
400	2				3
425					5
430		1			2

LATITUDE: 41.7291

LONGITUDE: -53.8283

WATER DEPTH(M): 0

DEPTH (CM)	ISLANDICELLA MOROSSETI	LENTICHELLINA C1334	MELONIS ZAANDAMAE	NONIONELLINA LABRADORICA	ODOLINA CAUDIGERA
0		1	2	102	2
25				3	
50				1	
75	0	1		50	
100			4	28	1
110			0	48	
125	0		9	12	
135				1	
155				1	
150				32	
175				4	
200					
220			6	7	
240			6	25	
275	2		7	23	1
300	1		4	55	
320			7		
325			15	2	
350	1		7		
375			3		
400			3		
425			1		
442			7		

CORR: 52124
LATITUDE: 51.7793

STATION: 057

SAMPLE TYPE: BTSTW

PAGE: 5

LONGITUDE: -63.8283

WATER DEPTH(M): 0

DEPTH (CM)	PARAFRISURINA HYPATIASTORA	PROTOLPHIDIUM SATHM	HAYNASENA ORBITICULARIS	PULLENIA BULLOIDES	PULLENIA OSLIDENSIS
0		3			
25					
50					
75					2
100	1				
110					1
125					4
135					
136			1		
150					1
175					
200			1		
225					3
250		2			3
275		3			
300		1			
320					
325				4	14
350					4
375					
400					2
425					
433					

LATITUDE: 41.7793

LONGITUDE: -62.8283

WATER DEPTH(M): 0

DEPTH (CM)	BYRSON WILLIAMSII	BOLIVINIDES CHARLOTTENSIS	SILICOSIOMMILINA GREENLANDICA	TRIFARINA FLUENS	TRILOCULINA TRICARINATA
0	2	2			
25		1			1
50					
75			1		
100			1		
110				1	
125	12	1			2
150					
175	3				3
200					
225	14				
250	2				1
275	1				
300					
320	1				
325			1		
350					
375					
400					
425					
433					

CORRECTION
 LATITUDE: 61.7791

STATION: 087

SAMPLE TYPE: PISTON

PAGE: 7

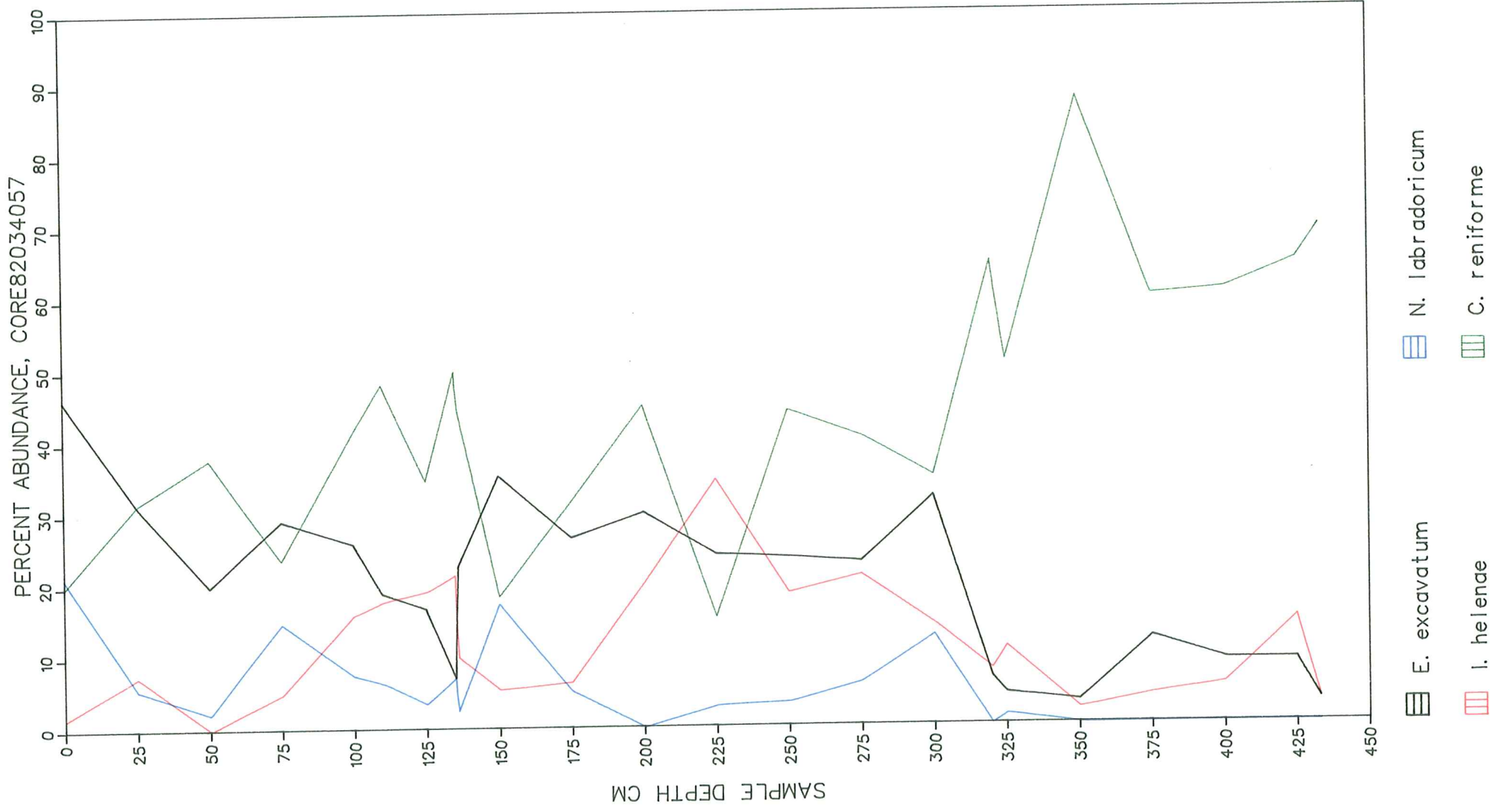
LONGITUDE: -62.8283

WATER DEPTH(M): 0

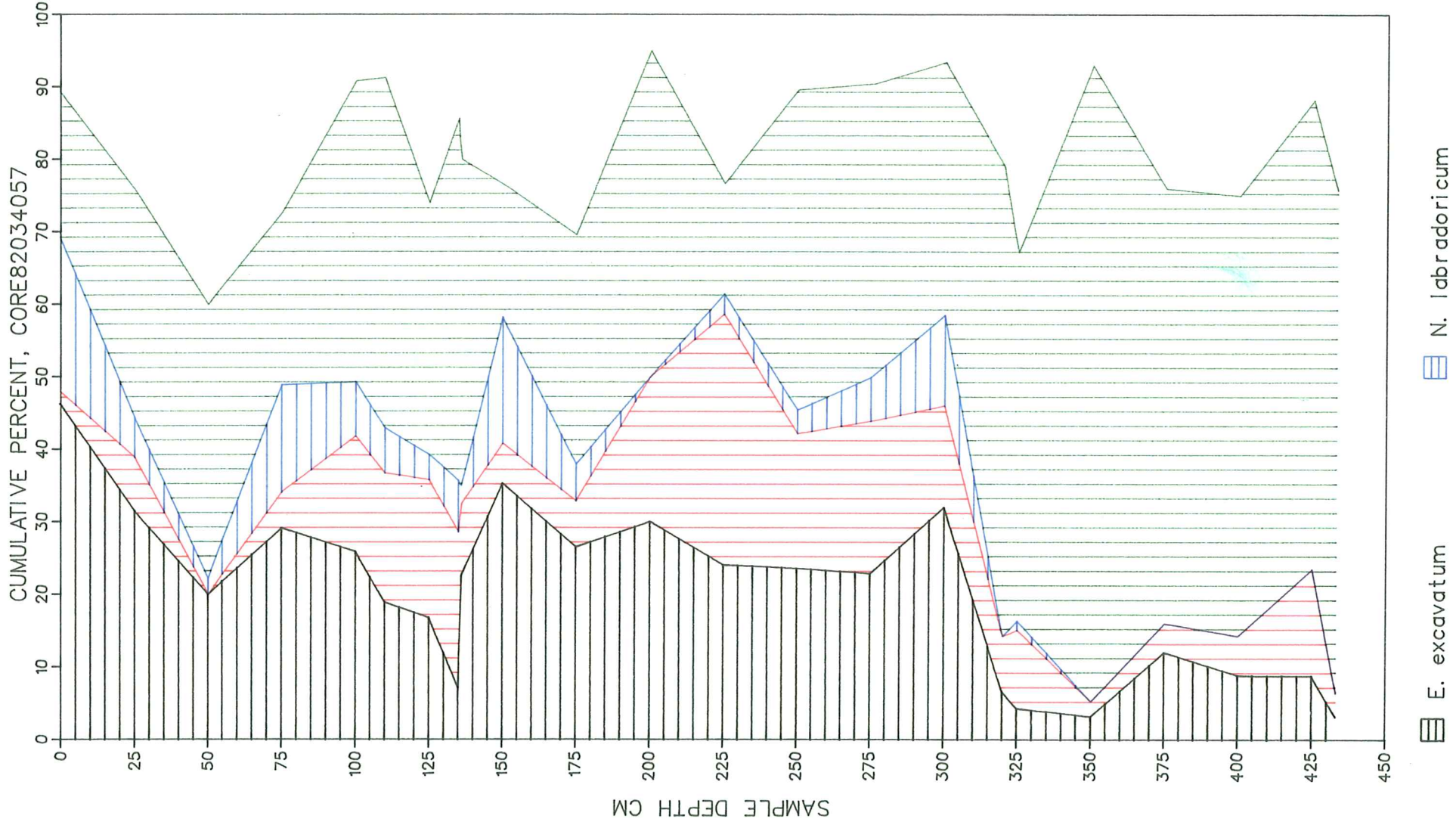
DEPTH (CM)	TRifarina TROPICALIS	FURSENGERINA FUSIFORMIS	STAINFORTHIA CONCAVA	GLORIGERINA RULLOIDES	GLORIGERINA QUINQUELOBA
0		0	14		
25					
50		18			
75		42	25	1	
100		5	7	1	
110		19	10	1	
120		25	7	4	
125		1			
135		3			
150		30	1		
170		10	0		
210					
225		1	4	1	
250		15	10	1	
275		0	4	1	
300		0	4		
320	4	1	1		2
325	6	2		2	
350	4	1	1		
375	1	1			
400	2	2	2		
425	2	1			
475	2	1			

DEPTH (CM)	NO. OF MICROBIOLOGICAL PACHYDERMA SINISTRAL	NO. OF MICROBIOLOGICAL PACHYDERMA DEXTRAL
0	40	1
25	30	
50	18	1
75	57	
100	214	2
110	200	2
125	207	2
135	1	
136	1	
150	14	
175	6	
200	1	
225	140	1
250	140	2
275	140	1
300	201	4
320	57	7
325	200	2
350	41	
375	20	
400	20	
425	11	1
433	20	

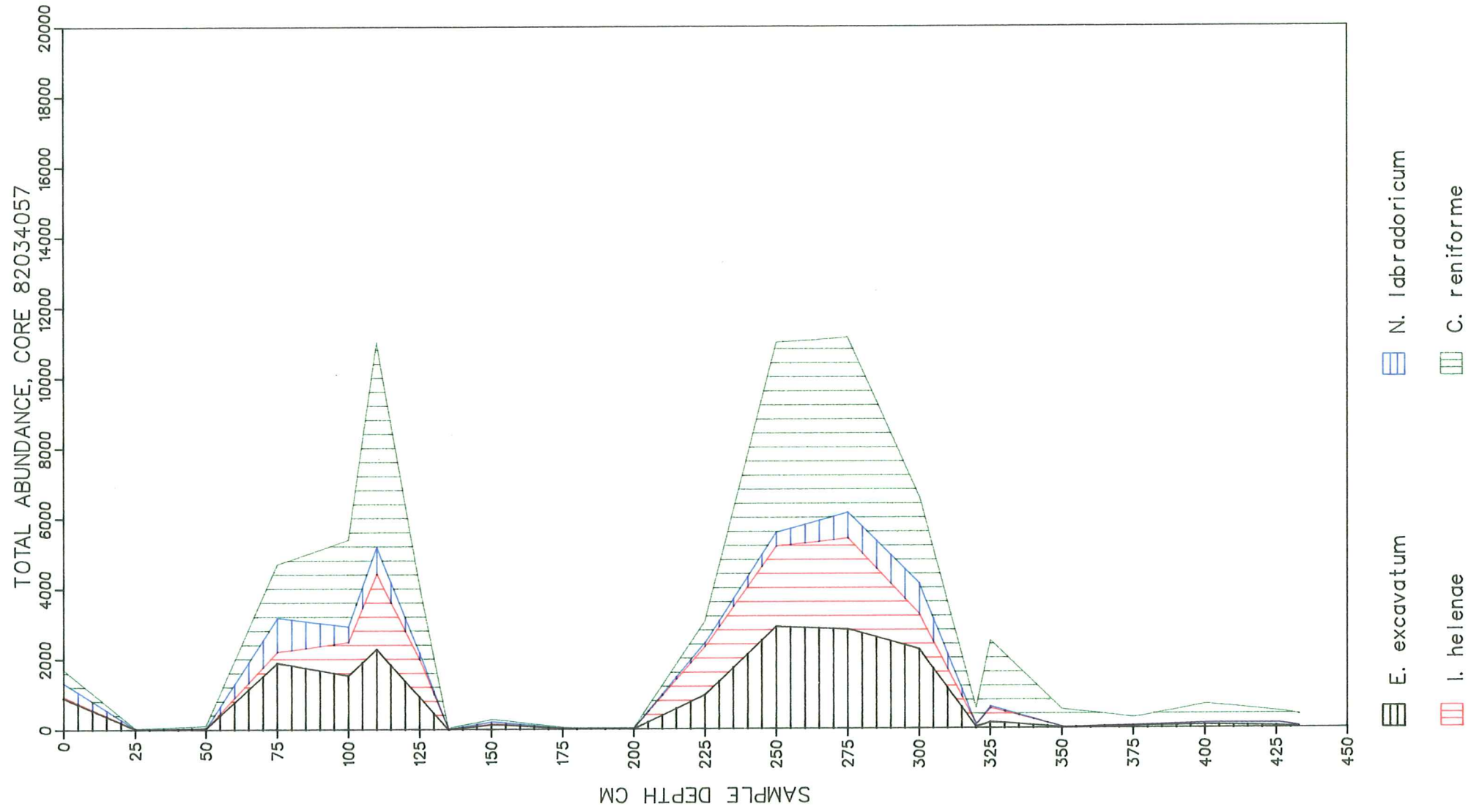
A



(B)



②



Appendix 16

82034068

Piston Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

LATITUDE: 32.2014

LONGITUDE: -45.6700

WATER DEPTH: 211

INTERVAL DEPTH(CM)	0	5	10	25	50
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	22	64	15	1	4

ABUNDANCE OF PLANKTON SPECIES

TOTAL	211	497	348	177	125
DIVERSITY	1.90	1.38	1.29	1.74	1.71

GENUS / SPECIES

PERCENTAGES

ASTROMONAS	CALLONIA	4.43	2.32	3.39	4.80
BHACILLA	ERICIDA	2.21	1.74	1.69	1.60
CASSIDULINA	GENIOPORA	12.29	2.58	26.55	40.80
CASSIDULINA	SHAGBROSA		1.74		
CIRRICTUS	LABRATHEUS	64.12	29.26	70.72	16.00
DISCORPUS	SOHAMAIA				1.60
DISCORPUS	TRAMMUCUS				1.60
EGGHELLA	ADMONA	.32			
ELPHIDIUM	EXCAVATUM CIA	1.32	12.27	3.48	18.90
ELPHIDIUM	SURMUCIUM			.37	2.25
EPISTOMONELLA	VITREA		.07	2.32	1.60
EPINIDES	BRADYT	.33	.20		
FISURIPHA	CETRA			.29	
FISURIPHA	LUCIDA	.33	.20		
FISURIPHA	MAGNATA	.33	1.21	1.74	1.13
YSLANDTELLA	HELLAS	4.06	4.63	7.80	4.52
YSLANDTELLA	MORCROSSI			1.74	.55
LACINA	SENTINELATA	.33			
MELONIS	ZANODAMAT	.33		.51	
NONYONELLA	ATLANTICA	.66			
NONYONELLA	AURICULA		.60		
NONYONELLA	LARRABORTICA	1.09		.29	.55
POLIA	BRADYTIS	.33			
POLIA	ADICULATA	.33			
POLIA	LINATA		.60		
POLIA	SUHAMOSUSICA	.33			
PROTELETOYUS	ZAMPA			.29	.80
HAYNASENA	BRADICHAPE	1.09	.20		1.13
SPIROGLOTHALMIA	RETORMIS				1.69
TEXTULAFIA	AGGLUTINANS		.20		
TRIFARIA	FLUENS	.33			
EURSEKOTINA	THSLFORMIS				1.69

SPRAT

TOTAL	17	41	8	21	29
DIVERSITY	.22	.21	.00	.19	.00

GENUS / SPECIES

PERCENTAGES

GLOTHALMIA	THALASSEUS	2.27			
NEOGLOTHALMIA	PACHYDERMA CT	64.12	95.56	100.00	95.24
NEOGLOTHALMIA	PACHYDERMA PL	5.78	2.27		4.75

CRUISE: R224
 LATITUDE: 47.2214

STATION: 640

SAMPLE TYPE: PTSTON

PAGE: 2

LONGITUDE: -65.6700 WATER DEPTH: 311

INTERVAL DEPTH (CM) 75 75 75 100 125
 INTERVAL WIDTH (CM) 5 5 5 5 5
 SHEET NUMBER 1 2 3 4 2

PENTHONIC FORAMENIFERA

TOTAL 193 172 170 273 338
 DIVERSITY 2.08 1.74 1.57 1.51 1.58

GENUS / SPECIES

PERCENTAGES

ASTRORHINIDAE	CALLICWAYI	3.01	4.23	0.55	0.27	1.48
BOLIVINA	PSCHIDDINGIAT		0.55		0.74	0.20
BUCCELLA	ERICIDA	0.75	2.31		0.74	
BULIMINA	EXTENS	0.75				
BULIMINELLA	ELEGANTISSIMA					0.30
CASSIDULINA	LAEVIGATA	3.01	2.21	1.12		0.50
CASSIDULINIDAE	PERIOPHOS	22.01	24.00	34.55	39.53	44.67
CYRTOCIDES	LOBRATULLUS	22.01	19.08	24.02	14.81	11.24
DISSORDELYNIDAE	PERIHELLOTY		0.55			
ELPHIDIUM	CYCAVATIN CLA	21.00	30.05	19.05	30.37	28.40
ELPHIDIUM	SUBRECTICUM			0.16		
ELPHIDIUM	DILOCHILIA				0.37	0.20
EPTASTOMINELLA	VITREA				0.37	
ETISSURINA	LUCIDA			0.55		0.30
ETISSURINA	VARGEMATA	0.75				0.30
ETISSURINA	ORBITICRYANA					0.30
TOLANDELLA	HELENAT	7.02	4.05	11.72	4.07	7.40
TOLANDELLA	HODOROSST	1.00		1.32	0.37	0.30
LAEVINA	SEMILIMBATA	0.75				
HELIANTS	ZAANDARAE				0.37	0.30
NONIONELLA	ATLANTICA		0.50			0.30
NONION	SCARHUM					0.30
NONIONELLA	LARRADREICA	0.75		1.58		0.20
PATIBORIS	MAHREINOTDES	0.75			0.37	
HAMMASERA	ORJICILAEI		0.50			
BULIMINA	QUINQUELOPA	0.75				0.50
PYRRO	WILLIAMSORLEY					
QUINQUELOPHELINA	ARCTICA	0.75				
QUINQUELOPHELINA	SEMILIMB				0.37	
REDDIAY	ARCTICA					0.30
REDDIAY	FLORIDANA			0.55		0.30
SPIROPLECTAMMINA	S. PERNIS				0.37	
SPIROPLECTAMMINA	TYRICA					0.30
TRIPARINA	ELIENS	0.75			0.37	
TRILOCHELINA	TRILORRA				0.37	0.30
EUPSONIDIA	EUSTROPHIS		4.62		0.10	1.48
STAIROBOLINA	CONCAVA		1.15		0.74	

FORAMS

TOTAL 19 25 32 41 60
 DIVERSITY 0.00 0.33 0.36 0.00 0.00

GENUS / SPECIES

PERCENTAGES

GLORICERINA	QUILICERAS			3.03		
GLORICERINA	EULCONENSTES		4.00			
NEOGLOBOQUADRINA	RACHYDORMA ST	100.00	92.00	91.91	100.00	100.00
NEOGLOBOQUADRINA	RACHYDORMA DE		4.00	6.05		

INTERVAL DEPTH(CM)	100	175	200	225	250
INTERVAL WIDTH(CM)	50	75	25	25	25
SPLIT NUMBER	2	4	8	2	4

GENUS / SPECIES

TOTAL	100	225	151	400	226
DIVERSITY	1.61	1.58	1.51	1.61	1.63

GENUS / SPECIES

PERCENTAGES

ASTROGOMPTON	CALLICRAYT	1.44	.89	1.53	.44
BHOCFLIA	ERICIDA	1.08		1.52	2.21
CASSIDULITIA	LAMVIGATA	1.5		3.25	1.33
CASSIDULINA	PENTEPORA	42.62	23.23	51.15	32.30
CTRICTOXA	LORATHILUS	22.30	11.67	22.90	18.58
DYSCORPILVIRIDINA	ZERTHLOTI				
ELPHIDIUM	EXCAVATUM CLA	27.18	30.11		34.96
ELPHIDIUM	SHRAGSTICHE	.52	.44	.75	
EPIDORNOGELIA	PHICHELIA			.53	.44
EPITOMINELLA	CYTOGA				.44
EPYTHOMIA	ZITREA			.53	.44
ETISSURINA	CICHERS, TASEMA		.44		.44
ETISSURINA	ANNICTENS				.44
ETISSURINA	LUCIDA			.74	
ETISSURINA	MARGINATA	.92	.44		.50
ETISSURINA	HELENAE	5.22	8.44	9.16	6.25
ETISSURINA	NORCESSA	1.00	.44	.76	4.42
ETISSURINA	ZAMBRANA			1.53	.44
ETISSURINA	ATLANTICA	1.08			
ETISSURINA	LARABORTICA			2.29	.50
ETISSURINA	ROSAE		.44		
ETISSURINA	CANIGERA			.76	.25
ETISSURINA	MANGROVIDES				.25
ETISSURINA	MANUM	.52			.25
ETISSURINA	ORTICIFERA	.52			.53
ETISSURINA	QUIMONIFERA				.25
ETISSURINA	UTILEMANSONI		.89		1.33
ETISSURINA	FLORIDANA			.75	.89
ETISSURINA	STREPTES		.44	.76	
ETISSURINA	ELONGA		.44		
ETISSURINA	TRICARINATA		.44		
ETISSURINA	TRICHODA	.92			
ETISSURINA	RUSTICORIX	1.04	2.67	.75	1.00
ETISSURINA	CONCINA		.44	1.52	4.00

GENUS

TOTAL	43	35	35	75	63
DIVERSITY	1.19	1.10	1.13	1.07	1.08

GENUS / SPECIES

PERCENTAGES

NEOCORONADINA	BACHYDEMA ST	91.01	100.00	97.14	98.59
NEOCORONADINA	BACHYDEMA DE	2.15		2.86	1.41

CALCULATED: 52.2274

LONGITUDE: -85.6700

WATER DEPTH: 311

INT-DVAL DEPTH(CM)	275	300	325	350	375
INT-EVAL DEPTH(CM)					
SPLIT NUMBER	22	16	4	32	16

BENTHONIC FORAMINIFERA

TOTAL	304	284	523	422	577
DIVERSITY	1.25	1.45	1.64	1.67	1.11

GENUS / SPECIES

PERCENTAGES

AMMONIUM				.24	
ASTEROIDEUM	.22	2.50	2.49	2.41	.60
BH. VINA	.33	.22	.10	.24	
BH. STELLA		1.30	1.34	1.13	
CASSIDULINA	.93	.52	.39		
CASSIDULINELLA	30.45	44.23	44.25	57.58	24.95
CIRRIIDITES			13.04	17.30	2.08
DITROCHITES					.25
ELPHIDIUM	40.01	37.24	26.06	30.81	64.12
ELPHIDIUM	.52	.52	.10		.17
ELPHIDIUM			.19		
ELPHIDIUM				.47	
ELPHIDIUM			1.34	1.64	.52
ELPHIDIUM			.39		.17
ELPHIDIUM		.26		.24	.35
ELPHIDIUM	.33	.52			
ELPHIDIUM	.24		.19	.47	
ELPHIDIUM	.23				
ELPHIDIUM					.17
ELPHIDIUM		.26			
ELPHIDIUM	2.29	4.17	1.72	2.84	4.15
ELPHIDIUM	1.92	.78	2.57	1.18	.35
ELPHIDIUM		.78	.88	.71	.35
ELPHIDIUM				.24	
ELPHIDIUM	.16	.26			
ELPHIDIUM	.32	1.04		.47	.52
ELPHIDIUM				.24	
ELPHIDIUM	.44	.26	.57	.24	.17
ELPHIDIUM		.26			
ELPHIDIUM	.33			.24	.35
ELPHIDIUM	.33	.26			
ELPHIDIUM		.26			
ELPHIDIUM			.10	.47	
ELPHIDIUM			.10		
ELPHIDIUM			.10		
ELPHIDIUM			.10		
ELPHIDIUM			.10		
ELPHIDIUM			.10		
ELPHIDIUM		.26			
ELPHIDIUM		.26	.10		
ELPHIDIUM	2.06	3.20	.75	.47	.17
ELPHIDIUM					.25

PERCENT

TOTAL	35	94	112	138	35
DIVERSITY	.11	.14	.05	.00	.00

GENUS / SPECIES

PERCENTAGES

AMMONIUM	47.57	96.37	97.11	100.00	100.00
AMMONIUM	2.43	3.13	.89		

CRUISE: 02174
 LAUNCH: 12/2/74

STATION: 089

SAMPLE TYPE: PISTON

PAGE: 5

LONGITUDE: -52.6700 WATER DEPTH: 311

INTERVAL DEPTH(CM)	400	425	450	475	500
TEST VAL. DEPTH(CM)	5	5	5	5	5
SPLIT NUMBER	22	4	15	4	2

ABUNDANCE CORRECTIONS

TOTAL	497	604	580	434	56
DIVERSITY	1.50	1.47	1.54	1.55	.89

GENUS / SPECIES

PERCENTAGES

MELONIS	SABIDANUM	.15				
ASTRONOTUM	CALLIPAY	1.02	.60	.29	.23	
RULLIMINA	PSILHOPODICTA	.44	.40	.20		
RHOCELLA	EPICIDA	.15	.20	.20	.46	
RULLIMINA	EXILIS			.15		
CASSIDULINA	LACTICATA	.29		.15		
CASSIDULINA	CONJUGATA	45.47	42.26	37.21	53.00	75.00
STRICIDUS	LEPTALUS	4.22	2.09	3.38	2.31	1.79
CYCLOPS	PLANORPIS				.23	
DISCOIDES	TRANSLOCUS	.35				
PLEURONIA	CYCAVATUM CLA	24.99	37.30	23.02	11.06	10.71
PLEURONIA	RULCHILLA		.20			
EPITHEMELLA	VITREA		.00	.29	.92	1.79
ETOSURINA	CRISTA			.15		
ETOSURINA	LUCIDA	.15				
CLIPHEMELLA	AURICULATA	.15		.15		
ISLANDICELLA	ILLUMINATA	12.10	2.18	6.86	14.08	1.79
ISLANDICELLA	HERCULES	1.75	0.53	8.53	10.14	
MELONIS	ZADANAHAE	1.02	.20	2.50	.45	
NONIONELLA	ATLANTICA		.20			
NONIONELLA	AURICULA		.20			
NONIONELLA	LABRADORICA	2.43	1.19	7.21	.45	
ONIA	GLORIOSA				.23	
PROPLEURONIA	MANUM	.44		.19	.23	
ROPHAY	ARCTICA		.40		1.84	
STRYLOSTOMIA	STRYLO				.59	
TRILUCILINA	TRILUCIDA		.40			
THURYSURINA	ARCTICA		.20			
EUROPEANIA	EUROPEANICA	.15	1.59		2.75	9.93
STATIONARIA	CONCAVA		.40	.44		

COPIES

TOTAL	2	14	26	3
DIVERSITY	.59	.21	.16	.01

GENUS / SPECIES

PERCENTAGES

NEOCALYPTOPHANTHA	PACHYTERMA ST	50.00	94.74	95.15	100.00
NEOCALYPTOPHANTHA	PACHYTERMA D.	50.00	5.26	4.85	

LATITUDE: 42.205

LONGITUDE: -69.6700

WATER DEPTH: 311

INTERVAL DEPTH(CM)	0-25	25-50	50-75
INTERVAL WIDTH(CM)	25	25	25
SPLIT NUMBER	1	1	1

BENTHIC DIPYRAMINIFERA

TOTAL	42	43	48
DIVERSITY	1.50	1.42	1.47

GENUS / SPECIES

PERCENTAGES

ASTROGNATHIA	CALLINATA	6.90		
ROLVINA	PSUDOPHOCYCLIA			2.08
RHIZOCLIA	TRICHA		6.90	
CASSIDULINA	PLUTEUS	14.70	45.84	27.50
STRYCTOS	LEPTALUS	7.14	2.32	4.17
DISCOBRYS	TRACHYLICHA	2.39		
ELPHIDIUM	EXCAVATUM CL	16.67	19.50	14.58
EUPHONDIUM	PHOCYCLA			2.08
CRISTOMINELLA	VITREA			2.08
ISLANDICELLA	HELMAS	4.75		
ISLANDICELLA	MICROPSID	2.38		
MELONIS	ZANDAMAE	2.38		
NONIONELLA	ATLANTICA		2.32	
NONIONELLA	LAPADORICA	5.88	6.90	2.08
SCHULOPUS	TECHNIS	2.39		
EUPHONDIUM	CHSTRODMS	2.39	19.50	25.42

FORAMS

TOTAL	2
DIVERSITY	0.0

GENUS / SPECIES

PERCENTAGES

NEOGLOBULINIFERA	RACHYDORMA ST	100.00
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CODE: 02-144
 LATITUDE: 42.2014

STATION: 058

LONGITUDE: 145.6708

SAMPLE TYPE: PISTON

PAGE: 1

WATER DEPTH(M): 311

DEPTH (CM)	MELONITE BARLETTANUM	ASTRIONOMIUM GALIMAYI	BOLIVINA PSEUDOPUNCTATA	BUCCELLA FRIGIDA
0				3.32
5		4.43		2.21
10		2.32		1.74
25		3.39		1.69
50		4.80		1.60
70		3.01		.75
75		4.20	.58	2.31
85		.56		
100		.37	.74	.74
125		1.40	.30	
150		1.60		1.06
175		.80		
200		1.13		1.53
225				1.25
250		.44		2.21
275		.33	.33	
300		2.60	.52	1.30
325		2.40	.19	1.34
350		2.61	.24	1.18
375		.69		
400	.21	1.02	.44	.15
425		.56	.40	.20
450		.20	.15	.29
475		.23		.46
500				
525		2.20		
550				2.33
575			2.08	

DEPTH (CM)	CASSIDULINA LACRIMATA	CASSIDULINA LACRIMATA	CASSIDULINA LACRIMATA	CASSIDULINA LACRIMATA	CASSIDULINA LACRIMATA
0				12.29	
5				13.69	
10				5.80	1.74
25				26.55	
50				48.90	
70	0.71		3.31	33.83	
75			2.31	36.99	
95			1.12	36.55	
100				39.62	
125		0.21	0.50	44.57	
150			1.06	43.62	
175				33.32	
200			2.05	51.15	
225			0.50	38.25	
250			1.33	32.30	
275			0.22	38.49	
300			0.52	44.53	
325			0.35	44.36	
350				37.58	
375				24.96	
400			0.20	48.47	
425				42.26	
450	0.11		0.15	37.21	
475				53.00	
500				75.00	
525				54.76	
550				48.84	
575				37.50	

DEPTH (CM)	CYPRIDINUS LORATIENSIS	CYCLOCYBA PLEURANTIS	DISCORRHINULINA PERIHELIOI	DISCORRHIS SQUAMATA	DISCORRHIS TRANSLUCENS
0	34.12				
5	30.25				
10	26.72				
25	26.72				
50	15.01			1.50	1.60
70	22.56				
75	17.08		.58		
95	24.12				
100	14.21				
125	20.24				
150	12.82				
175	10.57				
200	22.07				
225	16.71		.25		
250	18.12				
275					
300					
325	32.01				
350	17.20				
375	2.08				.35
400	4.21				.15
425	2.02				
450	2.24				
475	2.21	.23			
500	1.79				
525	2.14				2.38
550	2.32				
575	4.12				

LATITUDE: 52.9234

LONGITUDE: -65.4700

WATER DEPTH(M): 311

DEPTH (CM)	EGGIBOLIA ARVENA	DEPHIDITUM EXCAVATUM	CLAVATA	ELPHIDIUM SUBARCTICUM	EPERONIDELLA PULCHELLA	EPISTOMINELLA EXIGUA
0	.32	.32				
5		12.27				
10		3.44		.87		
25		14.68		2.26		
50		24.23				
70		21.81				
75		20.05				
85		10.55		.54		
100		21.27			.37	
125		28.40			.30	
150		27.64		.52		
175		29.31		.44		
200				.75		
225		25.72			.50	
250		24.04			.44	.44
275		49.11		.33		
300		37.24		.52		
325		26.54		.15	.19	
350		20.81				.47
375		64.12		.17		
400		24.69				
425		27.41			.20	
450		22.00				
475		31.05				
500		10.71				
525		16.57				
550		18.60				
575		14.50			2.06	

LATITUDE: 52.2224

LONGITUDE: -86.4700

WATER DEPTH(M): 311

DEPTH (CM)	CRISTATELLA VITREA	COINTELUS PAGYI	FISSURINA CUCURBITASEMA	FISSURINA ANNECTENS	FISSURINA CROBORA
0		.33			
5	.07	.20			
10	.33				.29
25					
50	.60				
70					
75					
85					
100	.07				
125					
150					
175			.44		
200					
225	.50				
250	.44			.44	
275					
300					.26
325	1.04	.20			
350	1.44				.24
375	.12	.07			.35
400					
425	.50				
450	.20				.15
475	.02				
500	1.75				
525					
550					
575	2.00				

DEPTH (CM)	PTISSIPINA LUCIDA	PTISSIPINA MARGINATA	PTISSIPINA PRISIGNYANA	GLOBULIMINA AURICULATA	GLOBULINA INAEQUALIS
0	.37	.32			
5	.20	.27			
10	.20	.74			
25		.13			
50					
70		.75			
75					
85	.56				
100					
125	.2	.30	.30		
150		.53			
175		.44			
200	.76				
225		.50			
250					
275	.25	.56	.33		
300	.12				.26
325		.19			
350		.47			
375				.17	
400	.15			.15	
425					
450				.15	
475					
500					
525					
550					
575					

CORE: 2624
 LATITUDE: 63.2214

STATION: 001

SAMPLE TYPE: PISTON

PAGE: 7

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DEPTH (CM)	OSIANTHIDIA HELIOPHAE	OSIANTHIDIA MICROPHOS	LAGENA SEMILINEATA	MELONIS ZAANDAMAE	NONIONELLA ATLANTICA
0	4.08		.32	.32	.66
5	6.08				
10	5.00	7.74		.58	
25	6.12	.86			
50	.00	2.40			
70	7.10	3.50	.75		
75	4.12				.58
85	10.72	1.12			
100	4.07	.27		.37	
125	7.40	.20		.30	
150	1.32	1.60			1.06
175	5.44	.44			
200	6.75	.75		1.53	
225	1.20	.50			
250	7.42	4.42		.44	
275	2.30	7.32			
300	4.32	.72		.72	
325	1.72	2.42		.38	
350	2.34	7.18		.71	.24
375	4.14	.95		.35	
400	10.10	1.75		1.22	
425	2.72	8.52		.20	.20
450	5.00	8.52		2.50	
475	14.00	10.14		.46	
500	1.72				
525	6.74	2.24		2.38	
550					2.33
575					

DPT. (CM)	NONIONELLA AUSTRIACA	NONION SCARDIA	NONIONELLA LABRADORICA	DOLINA BOREALIS	DOLINA APICULATA
0			1.90	.32	.33
5	.01				
10			.29		
25			.26		
50					
70			.75		
75					
95			3.58		
100					
125		.30	.30		
150					
170				.44	
200			2.20		
220			.50		
250					
275	.66		.33		
300	.26		1.04		
325					
350			.47		
375			.52		
400			3.49		
425	.20		1.19		
450			7.21		
475			.45		
500					
525			2.38		
550			6.98		
575			2.08		

CORE: 22034
LATITUDE: 42.2233

STATION: 054

SAMPLE TYPE: PISTON

PAGE: 9

LONGITUDE: -66.5700

WATER DEPTH(M): 311

DEPTH (CM)	DOLINA CANNITICERA	DOLINA LINEATA	DOLINA SQUAMOSOSULCATA	DOLINA GLOBOSA	PATEORIS HAUERINOIDES
0			.33		
5		.20			
10					
25					
50					
70					.75
75					
85					
100					.37
125					
150					
175					
200	.75				
220	.25				.25
250					
275					
300					
325					
350					.24
375					
400					
425					
450					
475				.23	
500					
525					
550					
575					

CORE: 02014
LATITUDE: 52.2216

STATION: 069

SAMPLE TYPE: PISTON

PAGE: 11

LONGITUDE: -85.6700

WATER DEPTH(M): 311

DEPTH (CM)	OILICHOILICHLINA SEMENIUM	REIPRAY ARCTICA	ROBERTINDIDES CHARLOTTENSIS	ROSALINA FLORIDANA	SCUTULORIS TEGMINIS
0					
5					
10					
25					
50					
70					
75					
85				.56	
100	.37				
125		.30		.30	
150					
175					
200				.76	
225					
250					
275					
300					
325		.19	.19	.19	.57
350		.47			
375					
400					
425		.60			
450					
475		1.84			
500					
525					2.38
550					
575					

LATITUDE: 52.2216

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DPTH (CM)	SPIRODOLICTAMMINA BIFORMIS	SPIRODOLICTAMMINA TYPICA	TRYPHILARIA AGGLUTINANS	TRIFARINA FLUENS	TRILOCULINA TRICARINATA
0				.33	
5			.26		
10					
25	.60				
50					
70				.75	
75					
85					
100	.27			.37	
125		.30			
150					
175	.44			.44	.44
200	.76				
225					
250					
275					
300				.26	
325	.19				
350					
375					
400					
425					
450					
475	.69				
500					
525					
550					
575					

CORRE: 02084
 LATITUDE: 62.2216

STATION: 050

SAMPLE TYPE: PISTON

PAGE: 13

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DPTH (CM)	TRILOCULINA TRIHEBRA	THORUS ARCTICA	FURSENKOYA FUSIFORMIS	STATNEFORTHIA CONCAVA	GLORIGERINA BULLOIDES
0					
5					2.22
10					
25			1.69		
50			2.40		
70					
75			4.62	1.16	
85					3.03
100	.27		5.19	.74	
125	.20		1.48		
150	.52		1.06		
175			2.67	.44	
200			.76	1.53	
225	1.00		4.00		
250					
275			2.95		
300	.26		2.20		
325	.10		.06		
350			.47		
375			.17	.35	
400			.15		
425	.41	.20	1.59	.40	
450				.44	
475			2.76		
500			0.92		
525			2.38		
550			19.50		
575			35.42		

LATITUDE: 62.2216

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DEPTH (CM)	GLORIGERINA FALCONENSIS	NEOGLORIDUADRINA PACHYDERMA SINISTRAL	NEOGLORIDUADRINA PACHYDERMA DEXTRAL
0		94.12	5.88
5		95.56	2.22
10		100.00	
25		92.24	4.76
50		100.00	
70		100.00	
75	4.00	92.00	4.00
85		90.91	6.06
100		100.00	
125		100.00	
150		91.30	4.65
175		100.00	
200		97.14	2.86
225		98.60	1.32
250		98.41	1.59
275		97.07	2.33
300		96.87	3.13
325		99.11	.89
350		100.00	
375		100.00	
400		50.00	50.00
425		94.74	5.26
450		90.15	3.85
475		100.00	
500			
525		100.00	
550			
575			

COPE: 92094

STATION: 66P

SAMPLE TYPE: PISTON-CC

PAGE: 1

LATITUDE: 42.2216

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DPTH CASSIDULINA
(CM) PENIFORME

52.33

CARICIDES
LORATULUS

13.33

ELPHIDIUM
EXCAVATUM CLAVATA

13.33

ISLANDIELLA
NORCROSSI

3.33

FURSENKOINA
FUSIFORMIS

16.67

CORE: R2034

STATION: 063

SOUNDING: PISTON-CC

PAGE: 2

LATITUDE: 62.2216

LONGITUDE: -69.6700

WATER DEPTH(M): 311

DEPTH NEIGLEBROUADRINA
(CM) PACHYDERMA SINSTRAL

107.00

COPE: 92034

STATION: 66F

SAMPLE TYPE: PISTON-OCC

PAGE: 1

LATITUDE: 62.2214

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DPTH CASYDULINA
(CM) PENIFORME

CIRRICTES
LOBATULUS

ELPHIDIUM
EXCAVATUM CLAVATA

ISLANDIELLA
HELENAE

ISLANDIELLA
NORCROSSI

4.35

17.39

69.57

4.35

4.35

INTERVAL DEPTH(CM)	0	5	40	25	50
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	32	64	16	1	4

BENTHONIC FORAMINIFERA					
TOTAL	301	497	348	177	125
DIVERSITY	1.38	1.38	1.29	1.74	1.71

GENUS / SPECIES		COUNTS			
ASTRONONTON	GALLOWAYI		22	6	6
BUCCELLA	FRIGIDA	16	11	4	2
CASSIDULINA	RENIIFORME	27	69	20	47
CASSIDULINA	SURGIFLOROSA			6	51
CIBICIDES	LORATULUS	193	295	244	65
DISCORRIS	SQUAMATA				2
DISCORRIS	TRANSLUCENS				2
EGGERELLA	ADVENA	1			
ELPHIDIUM	EXCAVATUM CIA	16	61	12	32
ELPHIDIUM	SUBARCTICUM			3	4
EPISTOMINELLA	VITREA		3	6	2
EPONIDES	PRADYI	1	1		
FISSURINA	CYPERA			1	
FISSURINA	LUCIDA	1	1	1	
FISSURINA	MARGINATA	1	6	6	2
ISLANDIELLA	HELENAE	21	23	20	2
ISLANDIELLA	NORROSSI			6	1
LAGENA	SEMITINEATA	1			
MELONIS	ZAANDAMAE	1		2	
NONIONELLA	ATLANTICA	2			
NONIONELLA	AURICULA		3		
NONIONELLINA	LABRADORICA	6		1	1
OPILINA	ROREALIS	1			
OPILINA	APICULATA	1			
OPILINA	LINEATA		1		
OPILINA	SQUAMOSOSULCA	1			
PROTALPHIDIUM	NANUM			1	1
HAYNASENA	ORBICULARE	6	1		2
ORTHOPECTAMMINA	REFORMIS				3
TEXTULARIA	AGGLUTINANS		1		
TRIFARINA	ELIENS	1			
FUSIFORMINA	FUSIFORMIS				3

FORAM2					
TOTAL	17	45	8	21	28
DIVERSITY	0.22	0.21	0.06	0.19	0.00

GENUS / SPECIES		COUNTS			
GLOBTGERINA	BULLOIDES		1		
NEOGLORBUQUADRINA	PACHYDERMA ST	16	43	8	28
NEOGLORBUQUADRINA	PACHYDERMA DE	1	1	1	

CRUISE: 82034
 LATITUDE: 62.2216

STATION: 069
 LONGITUDE: -65.6700

SAMPLE TYPE: PISTON
 WATER DEPTH: 311
 PAGE: 2

INTERVAL DEPTH(CM)	70	75	90	100	125
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	1	2	4	4	2

PLANKTONIC FORAMINIFERA
 TOTAL
 DIVERSITY

133	173	170	270	338
1.83	1.74	1.57	1.51	1.58

GENUS / SPECIES

COUNTS

ASTRORONNINON	CALLOWAYI	4	9	1	1	5
BULIUVINA	PSEUDOPUNCTAT		1		2	1
BUCCELLA	ERICIDA	1	4		2	
RULIMINA	EXILYS	1				
RULIMINELLA	ELEGANTISSIMA					1
CASSIDULINA	LAEVIGATA	4	4	2		2
CASSIDULINA	RENIERAE	45	64	60	107	151
CTIBICTIDES	LORATHULUS	30	19	42	40	38
DISCOPULVINULINA	PERTHELOTI		1			
ELPHIDIUM	EXCAVATUM CLA	29	52	35	82	96
ELPHIDIUM	SURARCTICUM			1		
EUPHONDIELLA	PULCHRELLA				1	1
EPISTOMINELLA	VITREA				1	
ETISSURINA	LUCIDA			1		1
ETISSURINA	MARGINATA	1				1
ETISSURINA	ORBIGNYANA					1
ISLANDIELLA	HELENAE	10	7	21	11	25
ISLANDIELLA	NORCROSSI	2		2	1	1
LAGENA	SEMI LINEATA	1				
MELONIS	ZAANDAMAE				1	1
MONIQUINELLA	ATLANTICA		1			
NONION	SCAPHUM					1
NONIQUINELLINA	LABRADORICA	1		3		1
PATFOPIS	HAMERINOTIDES	1			1	
HAYNASENA	OPRICHILAE		1			
PULLENIA	QUINQUELORA	1				
PYRGID	WILLIAMSONI					2
QUINQUELOCULINA	ARCTICA	1				
QUINQUELOCULINA	SEMINULUM				1	
REOPHAX	ARCTICA					1
ROSALINA	FLORIDANA			1		1
SPIROPLECTAMMINA	RIFORMIS				1	
SPIROPLECTAMMINA	TYPICA					1
TRIFARTINA	FLUENS	1			1	
TRILOCULINA	TRIHEDRA				1	1
FURCULINA	FURCIFORMIS		8		14	5
STAMFORTHIA	CONCAVA		2		2	

FORAM2
 TOTAL
 DIVERSITY

18	25	33	41	60
.00	.33	.35	.00	.00

GENUS / SPECIES

COUNTS

GLORIGERINA	RULLIDES			1		
GLORIGERINA	FALCONENSIS					
NEOGLOBORQUADRINA	PACHYDERMA ST	18	23	30	41	60
NEOGLOBORQUADRINA	PACHYDERMA DE		1	2		

CPUUSE: R2024
 LATITUDE: 42.2216

STATION: 048

LONGITUDE: -65.6700

SAMPLE TYPE: PISTON

PAGE: 3

WATER DEPTH: 311

INTERVAL DEPTH(CM)	150	175	200	225	250
INTERVAL WIDTH(CM)	F	E	F	A	F
SPLIT NUMBER	2	4	9	2	4

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY	150	175	200	225	250
	188	225	131	400	226
	1.61	1.58	1.61	1.62	1.63

GENUS / SPECIES		COUNTS				
ASTRONOMION	GALLINWAYI	2	2			1
BUCCELLA	FRIGIDA	2			5	5
CASSIDULINA	LAEVIGATA	2		4		3
CASSIDULINA	RENIFORME	22	75	57	153	73
CYBTICIDES	LOBRATHULUS	25	24	30	35	42
DISCOPIULVINULINA	BERTHELOTI				1	
FLPHIDIUM	EXCAVATUM CLA	52	88		143	79
FLPHIDIUM	SURARCTICUM	1	1			
EPERONTELLA	PULCHRELLA				2	1
EPISTOMINELLA	EXIGUA					1
EPISTOMINELLA	VITREA				2	1
ETSSURINA	CUCURBITASIMA		1			
ETSSURINA	ANNECTENS					1
FISSURINA	LUCIDA			1		
FISSURINA	MARGINATA	1	1		2	
ISLANDIELLA	HELENAE	13	19	12	25	3
ISLANDIELLA	NORCROSSI	3	1		2	10
MELONIS	ZAANDAMAE			2		1
NONIONELLA	ATLANTICA	2				
NONIONELLINA	LABRADORICA			3	2	
ODOLINA	BORFALIS		1			
ODOLINA	CAUDIGERA			1	1	
PATEOPIS	HAUBERTINOIDES				1	
PROTFLPHIDIUM	NANUM	1			1	
HAYNASCENA	ORBITICULARE	1			2	
PULLENIA	QUINQUELOBA				1	3
PYROC	WILLIAMSONT		2			2
ROSALINA	FLORIDANA			1		
SPIRROPLECTAMMNA	REFORMIS		1	1		
TRIFARINA	FLUENS		1			
TRILOCULINA	TRICAPINATA		1			
TRILOCULINA	TRIHEDRA	1			4	
FURSTENKOINA	ENSTIFORMIS	2	4	1	15	
STAINFORTHIA	CONCAVA		1	2		

FORAM2

TOTAL DIVERSITY	150	175	200	225	250
	43	35	35	75	63
	.19	.00	.13	.07	.08

GENUS / SPECIES

GENUS / SPECIES		COUNTS				
NEOGLOBQUADRINA	PACHYDERMA ST	41	25	34	75	62
NEOGLOBQUADRINA	PACHYDERMA DE	2		1	1	1

LATITUDE: 42.2714

LONGITUDE: -65.6700

WATER DEPTH: 311

INTERVAL DEPTH(CM)	275	300	325	350	375
INTERVAL WIDTH(CM)	25	25	25	25	25
SPLIT NUMBER	32	16	4	32	16

BENTHONIC FORAMINIFERA

TOTAL DIVERSITY	3.4	3.4	5.23	4.22	5.77
	1.26	1.40	1.54	1.57	1.11

GENUS / SPECIES

COUNTS

NOODSARTIA				1	
ASTRONUNTION		10	13	11	4
ROUVINA	1	2	1	1	
BUCCELLA		5	7	5	
CASSIDULINA		2	2		
CASSIDULINA	117	171	232	150	144
CIBICIDES			73	73	12
DISCOIDIS					2
ELPHIDIUM	140	143	141	130	370
ELPHIDIUM	1	2	1		1
EPERONIDELLA			1		
EPISTOMINELLA				2	
EPYSTOMINELLA			7	7	3
EPONIDES			2		1
FISSURINA		1		1	2
FISSURINA	1	2			
FISSURINA	2		1	2	
FISSURINA	1				
GLOBORULIMINA					1
GLOBULINA		1			
ISLANDIELLA	10	16	9	12	24
ISLANDIELLA	4	3	15	5	2
MELONIS		2	2	3	2
MONTONELLA				1	
MONTONELLA	2	1			
MONTONELLINA	1	4		2	3
PATEROS				1	
PROTOLPHIDIUM	2	1	3	1	1
HAYNASENA		1			
PULLENIA	1				
PYRID	1			1	2
QUINQUELOCULINA		1			
REOPHAY			1	2	
ROBERTINOIDES			1		
ROSALINA			1		
SCHULDTZ			2		
SPIROPLECTAMMINA			1		
TRIFARTINA		1			
TRILOCULINA		1	1		
FURSENKOINA	9	13	5	2	1
STAINFORTHIA					2

FORAM?

TOTAL DIVERSITY	8.6	9.6	11.2	10.3	3.5
	1.1	1.14	1.05	1.00	1.00

GENUS / SPECIES

COUNTS

MEGLOBOUQUADRINA	0.4	0.3	1.1	1.0	3.5
MEGLOBOUQUADRINA	2	3	1		

CRUISE: R2034
 LATITUDE: 22.2216

STATION: 059
 LONGITUDE: -55.6730

SAMPLE TYPE: PISTON
 WATER DEPTH: 311
 PAGE: 5

INTERVAL DEPTH (CM)	400	425	450	475	500
INTERVAL WIDTH (CM)	5	5	5	5	5
SPLIT NUMBER	32	4	16	4	2

BENTHIC FORAMINIFERA

TOTAL	487	204	683	434	56
DIVERSITY	1.50	1.47	1.64	1.54	.89

GENUS / SPECIES	COUNTS				
MELONIS	1				
ASTRORONINON	7	3	2	1	
ROLIVINA	3	2			
BUCCELLA	1	1	2	2	
BUCCINELLA			1		
CASSIDULINA	2		1		
CASSIDULINA	223	213	252	230	42
CIBICIDES	20	15	23	19	1
CYCLOCYPA				1	
DYSCORRIS	1				
ELPHIDIUM	171	198	225	48	6
EUPRONIDELLA		1			
EPISTOMINELLA		2		4	1
FISSURINA			1		
FISSURINA	1				
GLUBUBULIMINA	1		1		
ISLANDIELLA	00	11	40	65	1
ISLANDIELLA	12	43	59	44	
MELONIS	7	1	17	2	
MONIONELLA		1			
MONIONELLA		1			
MONIONELLINA	24	6	40	2	
POLINA				1	
PROTILPHIDIUM	3		1	1	
REDFAX		2		3	
SPITROPLECTAMINA					
TRILOCULINA		2			
TURRISPIRILLINA		1			
FURSENKOVINA	1	9		12	5
STAINFORTHIA		2	3		

FORAM

TOTAL	2	10	26	9	
DIVERSITY	.63	.21	.16	.00	

GENUS / SPECIES	COUNTS				
MEGALOPROQUADRINA	1	18	25	9	
MEGALOPROQUADRINA	1	1	1		

CENTREF: 22034
 LATITUDE: 42.2216

STATION: 668
 LONGITUDE: -65.6700

SAMPLE TYPE: PISTON
 WATER DEPTH: 311
 PAGE: 5

INTERVAL DEPTH(CM) 525 550 575
 INTERVAL WIDTH(CM) 25 25 25
 SPLIT NUMBER 1 1 1

BENTHONIC FORAMINIFERA

TOTAL 42 43 48
 DIVERSITY 1.50 1.42 1.47

GENUS / SPECIES		COUNTS		
ASTRONONION	GALLOMAYI	1		
BOLIVINA	PSEUDOPUNCTAT			1
BUCCELLA	ERICIDA		1	
CASSIDULINA	PERIFORME	23	21	18
CTRICIDES	FORATHILUS	2	1	2
DTSCORPIE	TRANSLUCENS	1		
ELPHIDIUM	CYCAVATUM CLA	7	8	7
EPERONIDELLA	PULCHELLA			1
EPISTOMINELLA	VITREA			1
ISLANDIELLA	HELENAE	2		
ISLANDIELLA	MICROPSIS	1		
MELONIS	ZANUDAMAE	1		
MONIONELLA	ATLANTICA		1	
MONIONELLINA	LARRADORICA	1	2	1
SCUTHELIPTIS	TEGMINTS	1		
FURSENKIINA	FURSEFORMIS	1	8	17

FORAM?

TOTAL 2
 DIVERSITY 1.0

GENUS / SPECIES		COUNTS		
NEOGLORIOQUADRINA	PACHYDERMA ST	2		

CRUISE: 22034
LATITUDE: 62.2216

STATION: 862

SAMPLE TYPE: PISTON-CC PAGE: 1

LONGITUDE: -55.6700 WATER DEPTH: 311

INTERVAL DEPTH(CM)
INTERVAL WIDTH(CM)

BENTHONIC FORAMINIFERA

TOTAL 30
DIVERSITY 1.28

GENUS / SPECIES		COUNTS
CASSIDULINA	DENTIFORME	15
CYRILLIDES	LABRATULUS	4
ELPHIDIUM	EXCAVATUM CIA	4
TSJANDTALLA	MORBOSUS	1
FURSEKULINA	FUSIFORMIS	5

FORAM2

TOTAL 3
DIVERSITY 0.00

GENUS / SPECIES		COUNTS
NEUGLORIOZADRINA	PACHYDERMA SJ	3

CRUISE: 42024
LATITUDE: 62.2216

STATION: 6-6P

SAMPLE TYPE: PISTON-OCC PAGE: 1

LONGITUDE: -65.6700 WATER DEPTH: 311

INTERVAL DEPTH(CM)
INTERVAL WIDTH(CM)

BENTHONIC FORAMINIFERA
TOTAL
DIVERSITY

23
.97

GENUS / SPECIES		COUNTS
CASSIDULINA	DEFINIFORME	1
CIPRACIDES	LOBRATHULUS	4
ELPHIDIUM	EXCAVATUM CLA	16
ISLANDICELLA	HOLENAE	1
ISLANDICELLA	NOBECROSSI	1

CODE: 22634
 LATITUDE: 62.2276

STATION: 649

SAMPLE TYPE: PISTON

PAGE: 1

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DEPTH (CM)	MELONIS PARI FRAGILIS	NUDDUSARIA	ASTRONOMION GALLOWAYI	BOLIVINA PSEUDOPUNCTATA	RUCCELLA FRIGIDA
0					10
5			22		11
10			8		6
25			6		3
50			5		2
70			4		1
75			9	1	4
95			3		
100			1	2	2
125			5	1	
150			3		2
175			2		
200			2		2
225					5
250			1		5
275			1	1	
300			10	2	5
325			13	1	7
350		1	11	1	5
375			4		
400	1		7	3	1
425			3	2	1
450			2	1	2
475			1		2
500					
525			1		
550					1
575				1	

CRUISE: 22596
 LATITUDE: 42.2216

STATION: CAP

SAMPLE TYPE: PISTON

PAGE: 2

LONGITUDE: -55.6700

WATER DEPTH(M): 311

DEPTH (CM)	DIATOMS EXTENS	BULIMINELLA ELEGANTISSIMA	CASSIDULINA LAEVIGATA	CASSIDULINA RENIFORME	CASSIDULINA SUBGLOBOSA
0				37	
5				68	
10				20	6
25				47	
50				51	
70	1		4	45	
75			4	64	
85			2	69	
100				107	
125		1	2	151	
150			2	82	
175				75	
200			4	67	
225			2	153	
250			3	73	
275			1	117	
300			2	171	
325			2	232	
350				159	
375				144	
400			2	333	
425				213	
450	1		1	253	
475				230	
500				42	
525				23	
550				21	
575				18	

LATITUDE: 52.2915

LONGITUDE: -65.6710

WATER DEPTH(M): 311

DEPTH (CM)	CYCLICOPUS LABRATILIS	CYCLICOPUS PLANTARIS	DISCOPIUM VINULINA BERTHELOTTI	DISCORRIS SQUAMATA	DISCORRIS TRANSLUCENS
0	105				
5	205				
10	244				
25	65				
50	20			2	2
70	20				
75	10		1		
85	40				
100	60				
125	20				
150	20				
175	24				
200	20				
225	25		1		
250	42				
275					
300					
325	70				
350	70				
375	10				2
400	20				1
425	10				
450	20				
475	10	1			
500	0				
525	0				1
550	0				
575	0				

LATITUDE: 52.224

LONGITUDE: -65.6703

WATER DEPTH(M): 311

DEPTH (CM)	EGGIBELLA ADYENA	ELPHIDIUM EXCAVATUM	CLAVATA	ELPHIDIUM SUBARCTICUM	EOERTHIDELLA PULCHELLA	EPISTOMINELLA EXIGUA
0	1	16				
5		23				
10		12		3		
25		22		4		
50		21				
70		20				
75		52				
85		35		3		
100		22			1	
125		96			1	
150		82		1		
175		85		1		
200				1		
225		143			2	
250		79			1	1
275		160		1		
300		142		2		
325		141		1	1	
350		120				2
375		370		1		
400		171				
425		188			1	
450		225				
475		48				
500		6				
525		7				
550		2				
575		7			1	

LATITUDE: 52.2216

LONGITUDE: -85.6783

WATER DEPTH(M): 311

DEPTH (CM)	DISTOMELLA VETULA	PRINIDES PRADYI	FISSURINA CUCUPRITASEMA	FISSURINA ANNECTENS	FISSURINA CREBRA
0		1			
5	0	1			
10	0				1
25					
50	0				
70					
75					
95					
100	1				
125					
150					
175			1		
200					
225	2				
250	1			1	
275					
300					1
325	2	2			
350	7				1
375	3	3			2
400					
425	2				
450	0				
475	4				1
500	1				
525					
550					
575	1				

DEPTH (CM)	FISSURINA (ICT)	FISSURINA MARGINATA	FISSURINA ORRIGNYANA	GLOBOBULIMINA AURICULATA	GLOBULINA INAEQUALIS
0	2	2			
5	1	6			
10	1	6			
25		2			
50					
70		1			
75					
85	1				
100					
125	1	1	1		
150		1			
175		1			
200	1				
225		2			
250					
275	1	2	1		
300	2				1
325		1			
350		2			
375				1	
400	1			1	
425					
450				1	
475					
500					
525					
550					
575					

CORR: 00.44
 LATITUDE: 49.2215

STATION: 660

SAMPLE TYPE: PISTON

PAGE: 7

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DEPTH (CM)	ISLANDIELLA HILGANDI	ISLANDIELLA NITROSCISSA	LAGENA SEMILINEATA	MELONIS ZAANDAMAE	NONIONELLA ATLANTICA
0	23		1	1	2
5	22				
10	20	6		2	
25	8	1			
50	7	3			
70	10	2	1		
75	7				1
85	22	2			
100	11	1		1	
125	28	1		1	
150	10	3			2
175	10	2			
200	12	1		2	
225	28	2			
250	2	10		1	
275	11	4			
300	14	2		3	
325	0	18		2	
350	12	5		3	1
375	24	2		2	
400	60	12		7	
425	11	42		1	1
450	40	52		17	
475	40	46		2	
500	1				
525	2	1		1	
550					1
575					

LATITUDE: 52.2216

LONGITUDE: -65.5705

WATER DEPTH(M): 311

DEPTH (CM)	NONIONELLINA AURICULA	NESTON SCABRUM	NONIONELLINA LABRADORICA	BOOLINA BOREALIS	BOOLINA APICULATA
0			6	1	1
5	2				
10			3		
25			1		
50					
70			1		
75					
85			3		
100					
125		1	1		
150					
175				1	
200			2		
225			2		
250					
275	2		1		
300	1		4		
325					
350			2		
375			2		
400			24		
425	1		4		
450			49		
475			2		
500					
525			1		
550			2		
575			1		

LATITUDE: 42.2216

LONGITUDE: -85.6700

WATER DEPTH(M): 311

DEPTH (CM)	COLINA CAMELOPSA	COLINA LINEATA	COLINA SQUAMOSULCATA	COLINA GLOTTOSA	PATERIS HAUERINOIDES
0			1		
5		1			
10					
25					
50					
70					1
75					
85					
100					1
125					
150					
175					
200	1				
225	1				1
250					
275					
300					
325					
350					1
375					
400					
425					
450					
475				1	
500					
525					
550					
575					

LATITUDE: 52.2218

LONGITUDE: -55.6700

WATER DEPTH(M): 311

DEPTH (CM)	PRILLIQUIDTUM MANNI	HAYJASMA DEATCULARA	PILLENIA QUINQUELARA	PYRGO WILLIAMSONI	OUTNOUE ARCTICA	LOCULINA
0		4				
5		1				
10	1					
25		2				
50	1	1				
70			1			1
75		1				
85						
100						
125					2	
150	1	1				
175					2	
200						
225	1	2	1			
250			2		2	
275	2		1		1	
300	1	1				1
325	2					
350	1				1	
375	1				2	
400	2					
425						
450	1					
475	1					
500						
525						
550						
575						

LATITUDE: 42.2916

LONGITUDE: -85.6706

WATER DEPTH(M): 311

DEPTH (CM)	OUTER SEMINEURUM	ICHLINA	REIDHAY ARCTICA	ROBERTINIDIES CHARLOTTENSIS	ROSALINA FLORIDANA	SCUTULORIS TEGMINIS
0						
5						
10						
25						
50						
70						
75						
85					1	
100						
125			1		1	
150						
175						
200					1	
225						
250						
275						
300						
325			1	1	1	3
350			2			
375						
400						
425			2			
450						
475			2			
500						
525						1
550						
575						

LATITUDE: 62.2214

LONGITUDE: -58.6700

WATER DEPTH(M): 311

DPTH (CM)	SPIROPECTAMINA BISPORIC	SPIROPECTAMINA TYRICA	TEXTULARIA ACGLUTINANS	TRIFARINA FLUENS	TRILOCULINA TRICARINATA
0				1	
5			1		
10					
25	2				
50					
70				1	
75					
85					
100	1			1	
125		1			
150					
175	1			1	1
200	1				
225					
250					
275					
300				1	
325	1				
350					
375					
400					
425					
450					
475	2				
500					
525					
550					
575					

DEPTH (CM)	TRILICAMINA TRILICAMINA	THIRLOPHELLELLINA ARCTICA	FURSENKOTIA FUSIFORMIS	STAINFORTHIA CONCAVA	GLOBIGERINA RULLOIDES
0					
5					1
10					
25			2		
50			2		
70					
75			4	2	
85					1
100	1		14	2	
125	2		5		
150	1		2		
175			4	1	
200			4	2	
225	4		15		
250					
275			0		
300	1		12		
325	1		5		
350			2		
375			1	2	
400			1		
425	2	1	8	2	
450				3	
475			12		
500			5		
525			1		
550			0		
575			17		

LATITUDE: 22.2224

LONGITUDE: -85.6733

WATER DEPTH(M): 311

DEPTH (CM)	GLORIOBERTINA FALCONENSIS	NEOGLORIOBERTINA PACHYDERMA SINISTRAL	NEOGLORIOBERTINA PACHYDERMA DEXTRAL
0		35	1
5		43	2
10		9	
25		20	1
50		20	
70		10	
75	1	22	1
95		27	2
100		41	
125		60	
150		47	2
175		35	
200		24	1
225		70	1
250		42	1
275		54	2
300		92	3
325		111	1
350		109	
375		35	
400		1	1
425		10	1
450		27	1
475		0	
500			
525		2	
550			
575			

COORD: 50934
LATITUDE: 42.2214

STATION: 068

SAMPLE TYPE: PISTON-CC

PAGE: 1

LONGITUDE: -85.5700

WATER DEPTH(M): 311

DITH CASSTHUMINA
(CM) P. NIGRINE
14

GIBBOIDES
LATITULUS
4

ELPHIDIUM
EXCAVATUM CLAVATA
4

ISLANDIELLA
NORCROSSI
1

FURSENKOINA
FUSIFORMIS
5

CODE: 9204

STATION: 468

SAMPLE TYPE: PISTON-CC

PAGE: 2

LATITUDE: 42.2215

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DPTH NUCLEOPORADINA
(CM) RACHYDIPRA STANTAL

2

CORR: 12.24

STATION: 658

SAMPLE TYPE: PISTON-00C

PAGE: 1

LATITUDE: 62.2256

LONGITUDE: -65.6700

WATER DEPTH(M): 311

DPTM CASSETTINA
(CM) 0.42 0.0000

GRACIODES
LOBATHLUS

ELPHIDIUM
EXCAVATUM CLAVATA

ISLANDIELLA
HELENAE

ISLANDIELLA
NORCROSSI

1

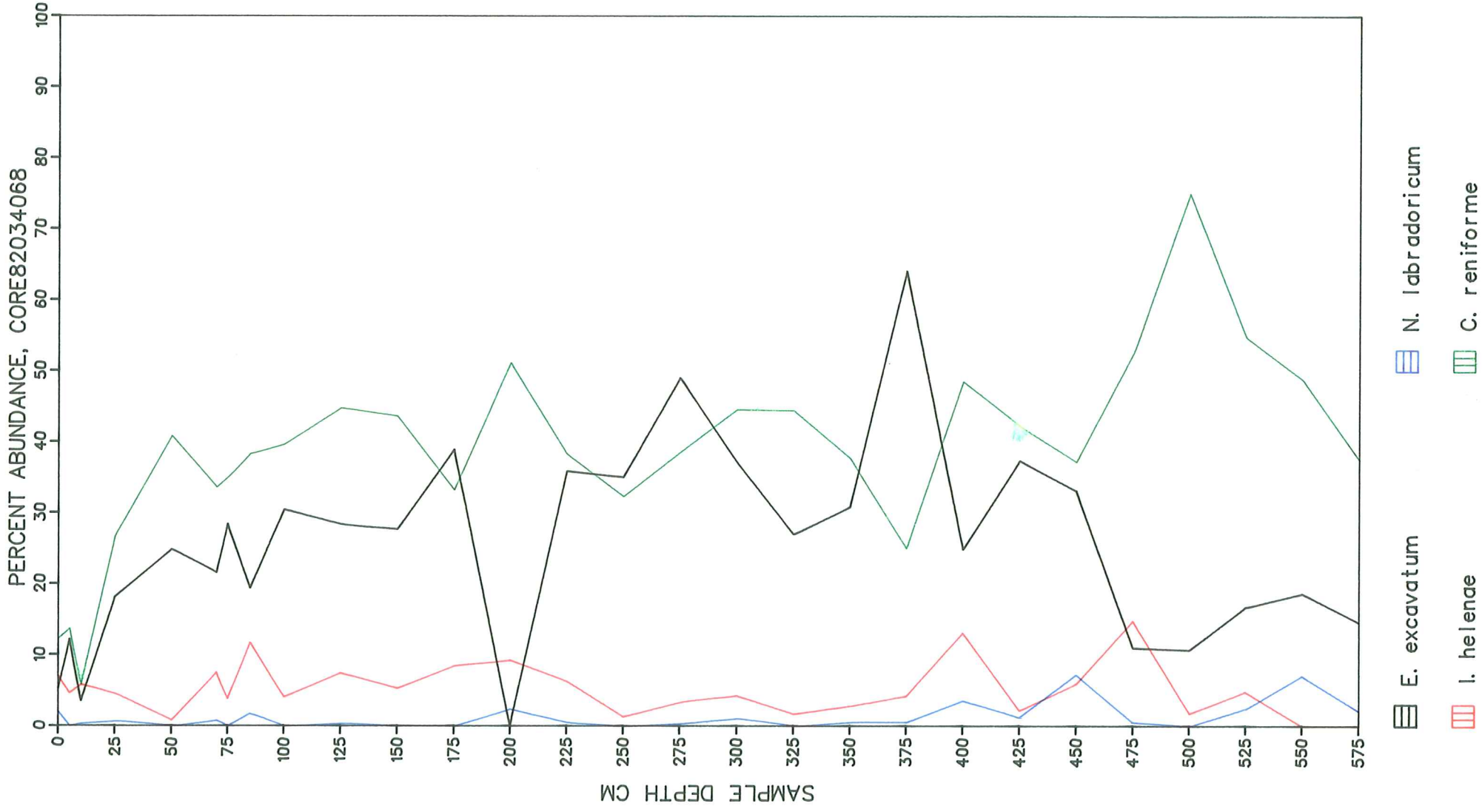
4

15

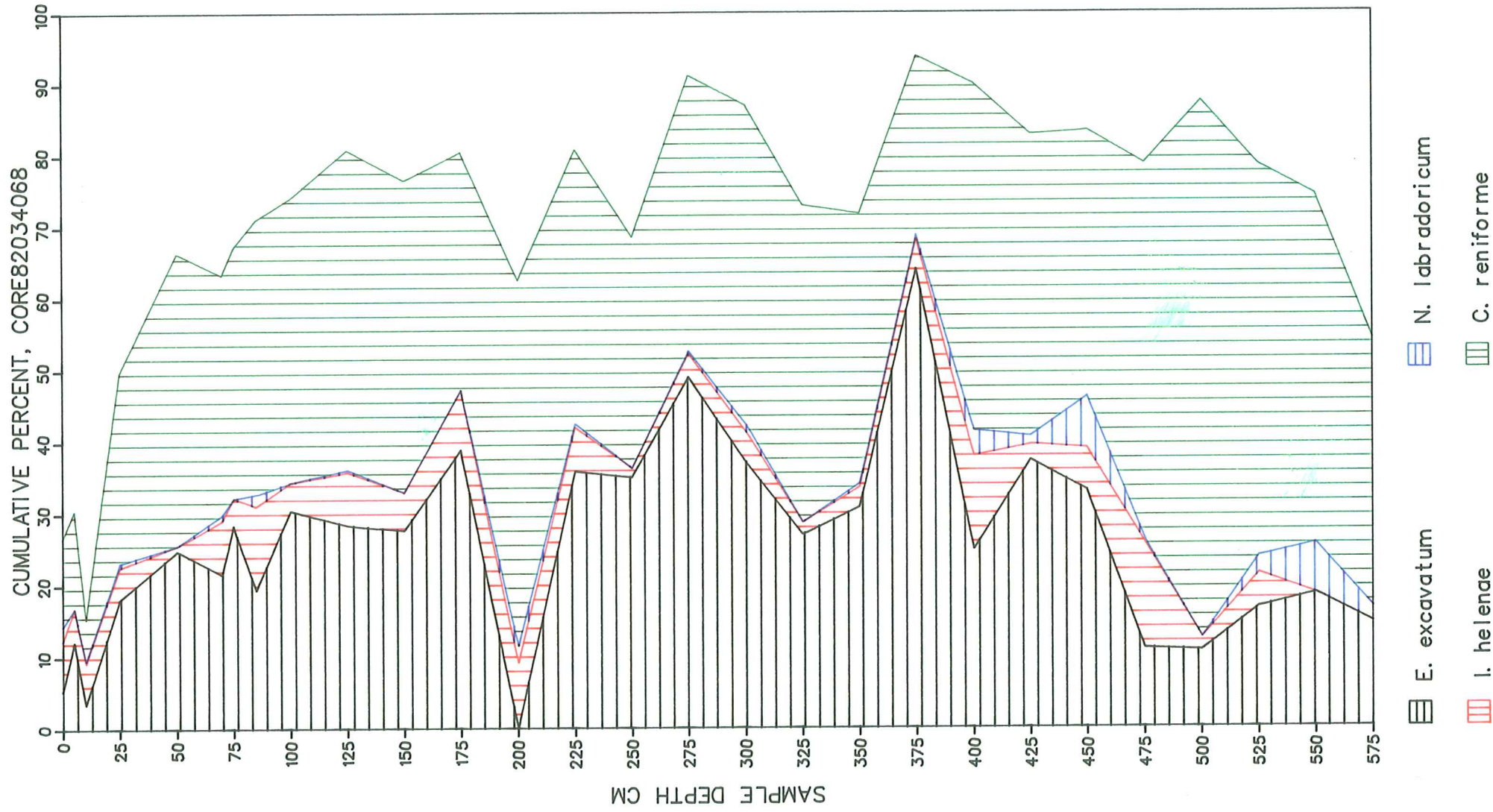
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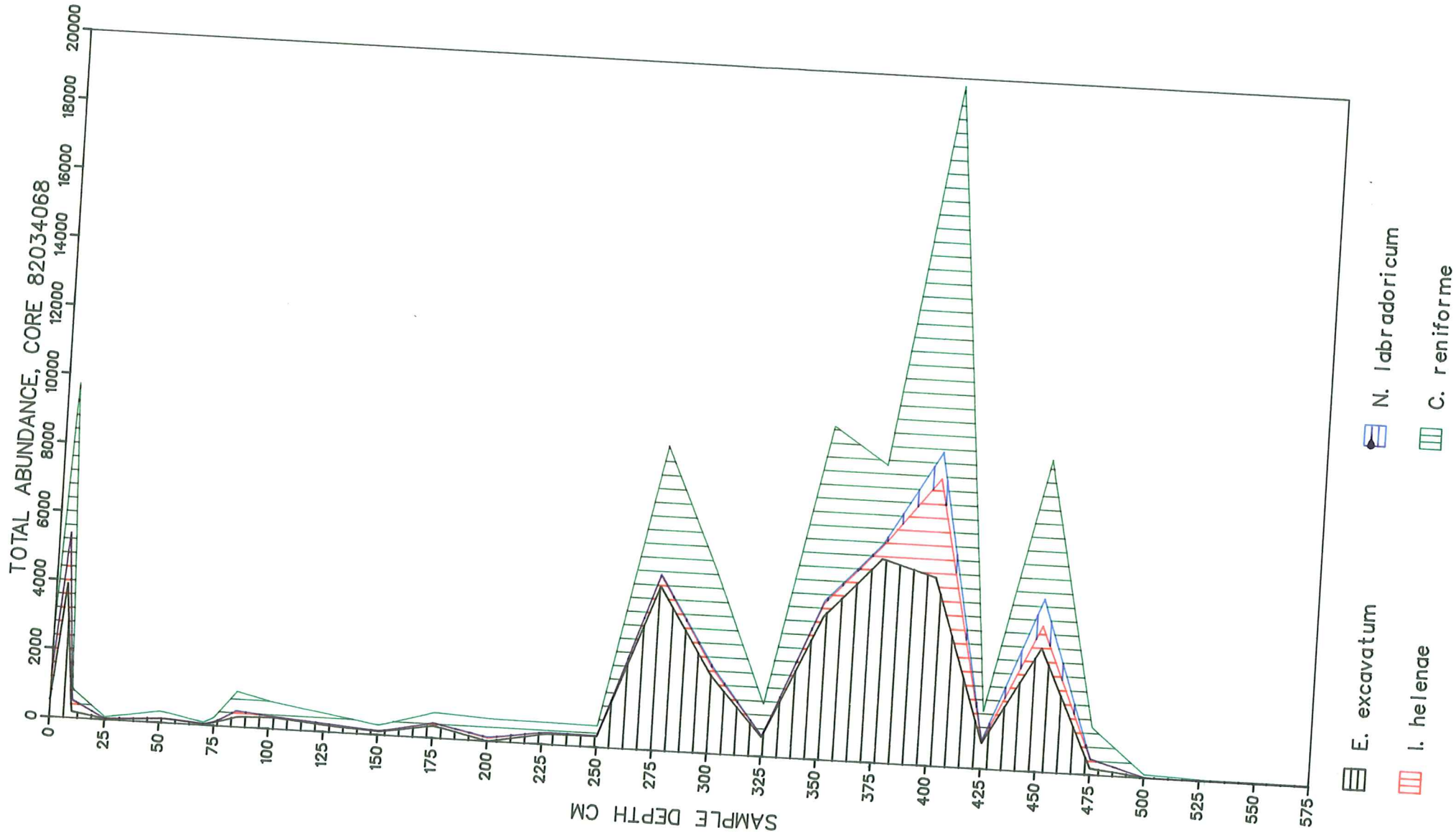
A



B



C



Appendix 17

82034069

Piston Core

Plot A- Percent Abundance
B- Cumulative Percent
C- Total Abundance

LATITUDE: 32.2403

LONGITUDE: -55.5622

WATER DEPTH: 315

INTERVAL DEPTH(CM)	0	25	50	75	100
INTERVAL WIDTH(CM)	0	5	5	5	5
SPLIT NUMBER	0	25	4	4	4

BENTHIC FORAMIFERA

TOTAL	413	82	475	250	445
DIVERSITY	2.19	1.66	1.90	1.81	1.90

GENUS / SPECIES

PERCENTAGES

ADERODIUM	CLONERATA				.21
ASTACIUM	BENTHICUM	.10			
ASTRENOMYX	CALLICAMYX	5.73	2.41	1.58	4.03
BOLIVINA	PSYCHRODINOCYTA			.42	.22
BUCCELLA	ERICIDA	4.70		.21	1.40
CASSIDULINA	LACRIMATA	1.44	1.23	1.05	.80
CASSIDULINA	BENTHICUM	7.54	32.53	35.37	35.00
CASSIDULINA	SUBULTROSA	2.73			2.00
CASSIDULINA	LORATULUS	40.20	13.25	17.89	15.40
CRIPROSTOMITES	CRASSIACRIS	.25			
EGGERELLA	ADVENA	.25			
ELPHIDIUM	ARCTICA	.50		1.05	
ELPHIDIUM	PARTIUM	2.47			
ELPHIDIUM	EXCAVATUM				.67
ELPHIDIUM	EXCAVATUM	0.52	34.94	25.05	25.40
EPITOMIUM	TAKAYANAGI				.57
EPITOMIUM	VITREA	1.04		.26	.89
EPITOMIUM	BRADYI			.22	.80
EPITOMIUM	HYDROFATUS				.80
EPITOMIUM	TUMIDUM			.42	
FISSURINA	CRERA			.84	
FISSURINA	LUCIDA			.23	.22
FISSURINA	MARGINATA	1.74		.23	
FISSURINA	VENTRICOSA	.74			.40
ISLANDIUM	HELICAE	7.44	9.54	7.58	5.00
ISLANDIUM	NIKOPESI		1.20	.21	.80
CASSIDULINA	TERRIS		2.51		2.25
LARVA	STRATA			.21	
LENTICULINA	ALBATROSSI	.25		.21	
MELONIS	ZAMBAMAC	.25		.63	1.20
MONYX	CRATILLOID			.21	1.12
MONYX	LARVARIUM	.99	2.41	.84	1.57
POLINA	SPID	.50			
PLANULINA	WILLIAMSOMI			.42	
PROTILLOID	MARIN	.74		.42	.90
UDYNAE	ORATHEARE	1.06			
UDYNAE	WILLIAMSOMI			.42	.40
UDYNAE	STALPES			.54	.90
UDYNAE	ARCTICA	.25			
TEXTURARIA	TERRATA			.21	
TRICARINA	ELIENS	.25			
HYPORHINA	ELIENS			1.69	1.50

SUMMARY

TOTAL	77	21	96	50	112
DIVERSITY	4.00	3.19	3.31	3.09	3.25

GENUS / SPECIES

PERCENTAGES

GLOBALINA	BULLICIDIA			5.22	2.68
-----------	------------	--	--	------	------

LATITUDE: 52.2420

LONGITUDE: -69.5832

WATER DEPTH: 315

INTERVAL DEPTH(CM)	125	140	150	175	200
INTERVAL WIDTH(CM)					
SPLIT NUMBER	14	2	8	15	2

BENTHONIC PARAMETER

TOTAL DIVERSITY	397	401	464	360	561
	1.79	1.88	1.54	1.74	1.47

GENUS / SPECIES

PERCENTAGES

ASTRONOMION	CALLONAYI	2.27	2.49	1.21	1.11	1.07
BOULANGERI	PSEUDOPUNCTAT					.18
BUCCELLA	ERICIDA	.76	.53	1.08	.28	
CASSIDULINA	LAMVIGATA	2.02	2.25	.55		.18
CASSIDULINA	PERMORUM	24.76	24.41	40.13	31.39	52.58
CASSIDULINA	SUBCLOPPSA	.53	.25			
CIRRICIDE	LEBRATHLES	15.37	15.95	21.04	3.33	3.21
DENTALINA	SPORTSHERENSY				.20	
ELPHIDIELLA	ARCTICA			.43	.23	
ELPHIDIUM	EXCAVATUM CIA	29.47	27.43	23.64	30.83	20.86
EPHEMERYELLA	RUICHELLA					.18
EPITOMINTELLA	TAKAYANAGIT	.20	.75	.22		
EPITOMINTELLA	VITTEA	1.04	1.00	1.50		.36
EPONIDES	READYI	.25	1.50	.43	.28	.36
ORTOUREALIS	UMRONATHS TEN		.25			
FISSURINA	ANNICTENS	.20				
FISSURINA	CERREA		.75	.22	.28	
FISSURINA	MARGINATA	.20	.25	.43		
FISSURINA	CERATA		.25			
ISLANDIELLA	HELENAE	7.03	3.99	4.99	15.11	13.90
ISLANDIELLA	NORCROSSI	.20	.50	1.74	2.22	.71
MELONIS	ZACHARAL	1.26	1.50		1.94	1.43
NONIONELLINA	LABRADORICA	.53	1.25	.67	3.83	1.07
NOJINA	SCHANDSA					.18
ORATEOPS	HAFFELMETS		.50			
PROTEPHIDIUM	WAMBE		.20			
PSEUDOPOLYMERINA	NOVANGLIAE			.22		
BYSSO	VILLIATSONI	1.20	.50	.22		
OUTNOUELLICULA	STALKERJ				.20	
OUTNOUELLICULA	MILCARI					.18
TEXTILARIA	CARLANDJ		.20			
TRIFARTNA	PIHENS			.22		
THURSPITTELLA	ARCTICA	.20				.18
EUPSENKINA	SUSTROMITS	1.20	2.24	.87	.26	3.39

FORM 2

TOTAL DIVERSITY	121	83	64	55	29
	.25	.67	.66	.32	.15

GENUS / SPECIES

PERCENTAGES

GLOBIGERINA	PHILOIDES	1.65			3.03	
GLOBIGERINA	QUINQUELIRA	.52	1.20			
NEOGLOBIGERINA	PACHYDERMA ST	04.21	98.80	100.00	92.42	36.55
NEOGLOBIGERINA	PACHYDERMA DE	2.31			4.55	3.45

CRIP/SF: 22137
 LATITUDE: 43,2413

STATION: 159

SAMPLE TYPE: BENTHOS

PAGE: 3

LONGITUDE: -65.5833

WATER DEPTH: 315

INTERVAL DEPTH (CM)	225	250	275	300	325
INTERVAL WIDTH (CM)	5	5	5	5	5
SPLIT NUMBER	1	2	1	2	2

BENTHIC FORAMINIFERA

TOTAL DIVERSITY	1.50	1.57	1.44	1.55	1.10
	1.74	1.03	1.17	1.20	1.40

GENUS / SPECIES

PERCENTAGES

ASTRONOMIDA	CALLONAYI	1.33				1.91
BUCCELLA	FRIGIDA					1.82
CASSIDULINA	KONIFORME	25.33	15.00	23.00	37.50	36.33
CYPRICIDES	LOBRATUS	4.47	2.50	0.00	1.70	2.73
ELPHIDIUM	TYCIVATUM CLA	36.00	67.50	66.00	44.00	43.64
EPICONTINELLA	DIUCHELLA	1.67				1.91
EPISTOMINELLA	TAKAYANAGI					
EPISTOMINELLA	VITREA	1.67	1.64			
ETESUNA	MARGINATA	1.67			1.70	
ISLANDIELLA	HELICAE	0.67	1.91	4.50	7.24	3.64
NONIONELLA	LARRABURICA		1.64		1.70	
PROTODUJINIUM	MANU					
BYRDA	WILLIAMSONI	1.67				1.91
STILICOSTOMITINA	GREENLANDICA					
EUPHAKIINA	EUSIOPKIAS	0.33	10.82	4.50	5.36	9.91

FORAMS

TOTAL DIVERSITY	7		1	1	4
	1.41		1.00	1.00	1.56

GENUS / SPECIES

PERCENTAGES

NEOCLOROPHARINA	PACHYDERMA SI	85.71	100.00	100.00	75.00
NEOCLOROPHARINA	PACHYDERMA DL	14.29			25.00

LATITUDE: 43°24'00"

LONGITUDE: -65°51'43"

WATER DEPTH: 315

INTERVAL DEPTH(CM)

375

375

400

425

INTERVAL WIDTH(CM)

6

6

6

6

SPLIT NUMBER

1

1

1

1

BENTHIC FORAMIFERA

TOTAL

153

33

31

72

DIVERSITY

1.42

1.32

1.05

1.21

GENUS / SPECIES

PERCENTAGES

CASSIDULINA	DETIORRE	30.22	45.45	66.67	33.89
CYPRIDIDS	LOBRATULUS	2.27	3.03	0.52	1.34
ELPHIDIUM	EXCAVATUM CIA	41.18	36.36	14.29	43.06
ELPHIDIUM	QUICHELLA	.65			
EPISTOMINELLA	EXIGUA				1.22
EPISTOMINELLA	TAKAYANAGI	.65			
EPISTOMINELLA	VITREA		3.03		
EPONIDES	PRADYI			4.76	
GUTTULINA	GLACIALIS	.65			
HYPERAMMIA	ELONGATA	2.61			
ISLANDTELLA	HELENAE	2.61	6.06		12.50
MONITORIINA	LABRADORICA	.65			
STILOSTOMYLITRA	GREENLANDICA	4.04	3.03		
FURSENKOJNA	FUSIFORMIS	5.54	3.03	4.76	2.70

DATE: 82.04
LATTITUDE: 39.2413

STATION: 060

SAMPLE TYPE: BENTHOS-CC PAGE: 1

LONGITUDE: -55.423 WATER DEPTH: 315

INTERVAL DEPTH(CM)
INTERVAL WIDTH(CM)

BENTHIC FORAMIFERA

TOTAL DIVERSITY 1.7
1.36

GENUS / SPECIES

PERCENTAGES

RHIZELLA	ERTSIDA	5.14
CASSIDULINA	RENIFORME	41.28
CYRILLIDAE	LORATHILUS	5.08
ELPHIDIN	EXCAVATUM CLA	37.61
ELPHIDINA	CREPUS	6.25
YSLANDIELLA	HELENAE	5.14
NEONIS	ZAANDAMAE	5.14
THURSDARTIELLA	ARCTICA	5.08
EUSYNKINA	EUSIFORMIS	5.08

FORAM

TOTAL DIVERSITY 2
1.00

GENUS / SPECIES

PERCENTAGES

NEOCYPRIDINA	PACHYDERMA ST	100.00
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LATITUDE: 42.2493

LONGITUDE: -55.5833

WATER DEPTH(M): 315

DEPTH (CM)	ADALPHERYMA GLONERATA	PESSIDRYNA	ASTACOLUS RENIFORMIS	ASTRONONION GALLOWAYI	BOLIVINA PSEUDOPUNCTATA
0			.50	5.71	
25				2.41	
50	.22			1.68	.42
75				4.30	
100				2.70	.22
125				3.27	
140				2.49	
150				1.30	
175		.22		1.11	
200				1.07	.18
225				1.33	
250					
275					
300					
325				.91	
350					
375					
400					
425					

LATITUDE: 42.242

LONGITUDE: -48.583

WATER DEPTH(M): 315

DEPTH (CM)	BUCCELLA FRIGIDA	CASSIDULINA LAEVIGATA	CASSIDULINA REINFORDE	CASSIDULINA SUBGLOROSA	CIBICIDES LOBATULUS
0	6.70	1.49	7.04	2.73	40.20
25		1.20	32.53		13.25
50	.21	1.05	35.97		17.89
75	2.60	.80	36.00	2.50	16.40
100	.22	2.02	27.87		23.37
125	.76	2.02	34.76	.50	15.37
140	.50	.23	34.41	.25	18.95
150	1.05	.65	40.13		21.04
175	.25		31.24		8.33
200		.18	22.58		3.21
225			35.23		6.67
250			15.92		2.55
275			25.00		9.09
300			17.50		1.79
325	1.82		36.36		2.73
350			15.23		3.27
375			45.45		3.03
400			66.67		9.52
425			38.89		1.39

LATITUDE: 62.2423

LONGITUDE: -65.5833

WATER DEPTH(M): 315

DEPTH (CM)	CRIBRILLUM CRASSIARCO	DENTALINA FRONTSCHENSTIS	EGGERELLA ADVENA	ELPHIDELLA ARCTICA	ELPHIDIUM BARTLETTI
0	.25		.25	.50	3.47
25					
50				1.05	
75					
100					
125					
140					
150				.43	
175		.28		.28	
200					
225					
250					
275					
300					
325					
350					
375					
400					
425					

LATITUDE: 52.2413

LONGITUDE: -65.8833

WATER DEPTH(M): 315

DEPTH (CM)	ELPHIDIUM EXCAVATUM	ELPHIDIUM EXCAVATUM CLAVATA	EUPHONIOSILLA PULCHRELLA	EPISTOMINELLA EXIGUA	EPISTOMINELLA TAKAYANAGII
0		9.03			
25		34.04			
50		25.05			
75		26.40			
100	.67	21.57			.90
125		25.47			.25
140		27.47			.75
150		22.06			.22
175		30.89			
200		20.86	.18		
225		36.00	.67		
250		57.52			
275		46.82			
300		44.64			
325		43.64			.91
350		41.19	.65		.65
375		36.36			
400		14.24			
425		42.06		1.39	

LATITUDE: 32.2428

LONGITUDE: -65.9833

WATER DEPTH(M): 315

DEPTH (CM)	ASSISTONELLA VITREA	EPINIDES BRADYI	ORIODORSALIS UMBONATUS TENER	EPINIDES TUMIDULUS	FISSURINA ANNECTENS
0	1.24				
25					
50	1.27	.21		.42	
75	.80	.80	.80		
100	.80	.67			
125	1.01	.25			.25
140	1.00	1.50	.25		
150	1.00	.43			
175		.28			
200	.26	.36			
225	.67				
250	.64				
275					
300					
325					
350					
375	2.63				
400		4.76			
425					

LATITUDE: 62.2413

LONGITUDE: -05.5833

WATER DEPTH(M): 315

DEPTH (CM)	FISSURINA CERATA	FISSURINA LUCIDA	FISSURINA MARGINATA	FISSURINA SERRATA	FISSURINA VENTRICOSA
0			1.74		.74
25					
50	.04	.21	.21		
75			.40		
100	.22				
125			.25		
140	.75		.25	.25	
150	.22		.43		
175	.25				
200					
225			.47		
250					
275					
300			1.79		
325					
350					
375					
400					
425					

LATITUDE: 42.2429

LONGITUDE: -66.5832

WATER DEPTH(M): 315

DEPTH (CM)	GUTHRIEIA GLABRATA	HYPERAMMNA ELONGATA	ISLANDIELLA HELENAC	ISLANDIELLA NORCROSSI	CASSIDULINA TERETIS
0			7.44		
25			9.64	1.20	2.41
50			7.98	.21	
75			6.00	.80	
100			9.36	2.25	
125			7.05	.25	
145			3.90	.50	
150			4.99	1.74	
175			15.11	2.22	
200			13.90	.71	
225			8.67		
250			1.91		
275			4.55		
300			7.14		
325			3.64		
350	.48	2.61	2.61		
375			6.06		
400					
425			12.50		

LATITUDE: 62.4422

LONGITUDE: -45.9833

WATER DEPTH(M): 315

DEPTH (CM)	LACUNA STRIATA	LENTICULINA ALBATHRUSST	MELONIS ZAANDAMAE	NONION GRATELORPT	NONIONELLINA LABRADORICA
0		.25	.28		.99
25					2.41
50	.23		.63	.21	.84
75			1.20		
100			1.12		1.57
125			3.26		.50
140			1.50		1.25
150					.87
175			1.94		5.83
200			1.43		1.07
225					
250					.64
275					
300					1.79
325					
350					.65
375					
400					
425					

LATITUDE: 12.2473

LONGITUDE: -85.8893

WATER DEPTH(M): 315

DEPTH (CM)	PROLIFERA MFLD	PLANULINA SQUAMOSA	PATERPIS HAERJINGIDES	PLANULINA MUELLERSTREI	PROTELOPHIDIUM NANUM
0	250				.74
25					
50				.42	.42
75					
100					.90
125					
140			.50		.25
150					
175					
200		.14			
225					
250					
275					
300					
325					.91
350					
375					
400					
425					

LATITUDE: 42°24'2

LONGITUDE: -65°58'33

WATER DEPTH(M): 315

DEPTH (CM)	HAIRYASCARA OPHTICULARE	RECHIDORRHOYDUM NOVANGLIAE	PYRGO WILLIAMSONI	QUINQUELOCULINA STALKEI	QUINQUELOCULINA VULGARIS
0	5.04				
25					
50			.42	.84	
75			.40		
100			.90		
125			1.25		
140			.50		
150		.22	.22		
175				.29	
200					.18
225			.67		
250					
275					
300					
325					
350					
375					
400					
425					

LATITUDE: 52.2422

LONGITUDE: -85.5833

WATER DEPTH(M): 315

DEPTH (CM)	SPERMATOPHYTES (%)	SILICUS LAMPELLINA GRONLANDICA	TEXTULARIA EARLANDI	TEXTULARIA TORQUATA	TRIFARINA FLUENS
0	.21				.25
25					
50				.21	
75					
100					
125					
140			.25		
156					.22
175					
200					
225					
250					
275					
300					
325		.91			
350		1.06			
375		3.03			
400					
425					

CORR: 2014
LATITUDE: 62.2482

STATION: 059

SAMPLE TYPE: BENTHOS

PAGE: 12

LONGITUDE: -85.4333

WATER DEPTH(M): 312

DEPTH (CM)	THALASSIERRERINA ARCTICA	EUSENKOWIA SUSTORRUIS	GLORIGERINA RULLUIDES	GLORIGERINA QUINQUEFLORA	NEOGLOBQUADRINA PACHYDERMA SINSTRAL
0					100.00
25					95.24
50		1.89	5.32		92.55
75		1.60			98.31
100		2.25	2.68		93.75
125	.21	1.26	1.68	.89	94.21
140		2.34		1.20	98.90
150		.57			100.00
175		.21	3.03		92.42
200	.29	2.39			96.55
225		0.99			85.71
250		10.92			
275		4.55			100.00
300		5.34			100.00
325		7.20			75.00
350		6.54			
375		3.13			
400		4.75			
425		2.70			

CORRECTION
LATITUDE: 42.9419

STATION: 050

SAMPLE TYPE: BENTHOS

PAGE: 13

LONGITUDE: -55.5822

WATER DEPTH(M): 315

DPT# NO. OF OBSERVATIONS
(CM) SAMPLES PER EXTRA

0	
25	2.74
50	2.30
75	1.69
100	2.27
125	2.22
140	
150	
175	4.17
200	2.41
225	1.5225
250	
275	
300	
325	2.200
350	
375	
400	
425	

CORR: 1237

STATION: 669

SAMPLE TYPE: BENTHOS-CC

PAGE: 1

LATITUDE: 33.2412

LONGITUDE: -85.5832

WATER DEPTH(M): 315

DEPTH 3000L4
(CM) 5107A

CANSTOLYMA
BENTIFORME

CYBICIDES
LEPATUS

ELPHIDIUM
EXCAVATUM CLAVATA

FISSURINA
CREBRA

4.8

41.619

5.08

37.61

6.95

CODE: 8512A
LATITUDE: 42.2442

STATION: 060

SAMPLE TYPE: BENTHOS-CC

PAGE: 2

LONGITUDE: -65.4823

WATER DEPTH(M): 315

ORTHOTELAMNIDIA
(CM) HELINA?

MELONIS
ZAMBONIA

TURRISPHELLINA
ARCTICA

FURSENKINA
FUSIFORMIS

NEOGLOBQUADRINA
PACHYDERMA SINSTRAL

1.12

1.12

1.12

5.98

100.00

COLLECTOR: J. J. ...
 LATITUDE: 32° 24' 29"

STATION: 159

SAMPLE TYPE: BENTHOS

PAGE: 1

LONGITUDE: -65° 35' 43"

WATER DEPTH: 315

INTERVAL DEPTH (CM) 0 25 50 75 100
 INTERVAL WIDTH (CM) 5 5 5 5
 SPLIT NUMBER 8 4 4 4

BENTHONIC DIATOMS

TOTAL
 DIVERSITY

403 42 475 253 445
 2.33 1.60 1.90 1.81 1.99

GENUS / SPECIES

COUNTS

ADEROPHERYMA	CLONERATA		1		
ASTACCELLUM	CONIFORMIS	2			
ASTRODONYMUS	CALLIPHYI	22	2	10	12
BOLIVINA	PERIODONCTAT		2		1
BUCCELLA	EPICIDA	27		4	1
CASSIDULINA	LABYRINTHA	5	1	2	1
CASSIDULINA	CONIFORMIS	22	27	168	124
CASSIDULINA	SUBULTROSA	11		5	
CTRICHODON	LABYRINTHA	162	11	95	104
CRATEROSTOMIDAE	CRASSIMARCO	1			
EGGHELLA	ADVENA	1			
ELPHIDIELLA	ARCTICA	2			
ELPHIDIUM	BARTLETTI	14			
ELPHIDIUM	EXCAVATUM				3
ELPHIDIUM	EXCAVATUM CIA	40	20	119	66
EPYSTOMELLA	TAKAYANAGI				4
EPYSTOMELLA	VITREA	5		4	4
FRONTIS	PRADY		1	2	3
FRONTIS	HYMNATUS TEN			2	
FRONTIS	TUMIDUS		2		
FISSURINA	OPERA		4		1
FISSURINA	LUCIDA		1		
FISSURINA	MARGINATA	7		1	
FISSURINA	VENTRICOSA	2			
ISLANDIELLA	M-LINAE	20	2	30	15
ISLANDIELLA	MORBOSA		1	1	10
CASSIDULINA	TERTIS		2		
LARVA	STRATA		1		
LENIICHELINA	ALPATRISCT	1			
MELONIS	ZANDAMAC	1		3	6
MONTON	CRATULOPT			2	
MONTONICHELINA	LABADONICA	4	2	4	7
ODINA	MELI	2			
PLANULINA	MELIPRSTORFI		2		
PROTELEPHIDIUM	JANUM	3			4
HAYNASCHA	ORICHLARE	24			
BYRSON	MELIPRSTORFI		2	1	4
QUINQUELOCHLINA	STALKONI		4		
REOPHAX	ARCTICA	1			
TEXTULARIA	TORQUATA		1		
TRIFARINA	FLUENS	1			
EURYSEKONIA	CONIFORMIS		9	4	10

FRAGS

TOTAL
 DIVERSITY

27 21 26 20 112
 1.00 1.19 1.81 1.09 1.28

GENUS / SPECIES

COUNTS

GLORIOSA	BULLICIDEE		1		3
----------	------------	--	---	--	---

INTERVAL DEPTH (CM)	300	400	500	175	200
INTERVAL WIDTH (CM)	25	25	25	25	25
SPLIT NUMBER	1	2	3	1	2

REMARKS: BENTHOS	TOTAL	401	461	300	561
BIBIORITY	1.79	1.85	1.96	1.74	1.47

GENUS / SPECIES

COUNTS

ETISSURINA				1	
ASTRIMMELLA	GALLONAYI	19	19	4	6
RJLIVINA	PSEUDOPUNCTAT				1
BUCCELLA	PRICIDA	4	2	1	
CASSIDULINA	LEVI-GATA	8	1	3	1
CASSIDULINA	RENIFRUS	128	138	195	113
CASSIDULINA	SURCLOPUSA	2	1		295
CTYTIDOC	LORATHUS	61	76	97	30
DENTALINA	PROTHERAST				1
ELPHIDIUM	APOTICA			2	1
ELPHIDIUM	EXCAVATUM CLA	117	119	110	111
EPIDEMIDELLA	QUICHELLA				1
EPIDEMIDELLA	TAKAYANAGIT	3	4	2	
EPIDEMIDELLA	VITRICA	4	6		2
EPIDEMIDELLA	PRADYT	1		2	1
EPIDEMIDELLA	HARTMANNIUS TEN		1		
FISSURINA	ANNECTENS	1			
FISSURINA	CRASSA		2	1	
FISSURINA	MARONATA	1	1	2	
FISSURINA	SERRATA		1		
ISLANDIELLA	HELENAE	28	16	23	59
ISLANDIELLA	NORONHENSE	1	2	8	8
MELOMYS	ZANDAMAE	6	6	7	7
MONIDEMIDELLA	LARRADERRICA	2	5	6	21
ODONTIA	SCHAMOSA				1
PATIDOC	HAUERIMODOC		2		
PROTHERAST	HANNA		1		
PSEUDOPHYLLOMIDELLA	NOVAKOVIACE			1	
PYRRO	WILLIAMSOMY	8	2	1	
QUINQUELOCELLINA	STALKERII				1
QUINQUELOCELLINA	VHICARIS				1
TRITIDOC	ESLANDI		1		
TRITIDOC	FLORIS			1	
TURRISORBELLA	LECTICA	1			1
PHYLLOMIDELLA	CHISELMANII	3	9	4	1

GENUS	TOTAL	53	84	65	29
DIVERSITY	1.28	1.37	1.60	1.32	1.15

GENUS / SPECIES

COUNTS

GLORIOSINA	PHILODIDS	2			2
CLERICINA	OUTROUCLA	1	1		
NEGLOROSINA	PACHYDERMA SJ	114	92	84	61
NEGLOROSINA	PACHYDERMA DE	4			2

CANISTER: 00, 0A
 LATITUDE: 40, 241.9

STATION: 069
 LONGITUDE: -55.5883

SAMPLE TYPE: RENTHOS
 WATER DEPTH: 315

PAGE: 3

INTERVAL DEPTH(CM)	225	270	275	300	325
INTERVAL WIDTH(CM)	5	5	5	5	5
SPLIT NUMBER	1	2	1	2	2

RENTHONIC PARAMETER					
TOTAL	1.00	1.07	.44	.54	1.10
DENSITY	1.04	1.02	1.17	1.29	1.40

GENUS / SPECIES		COUNTS			
ASTEROIDEA	CALLINAE	3			1
BUCCELLIIDA	ERTICIDA				2
CASSIDOPHELANA	PANICOPRUS	22	25		40
CYPRIDIDAE	LOPATELUS	10	4		3
ELPHIDIUM	EXCAVATUM CLA	54	25	25	40
EUTERODONIDAE	CHLORIDIA	1			
ERTSTREPTIDAE	TAKAYANACID				1
ERTSTOMINIDAE	VITREA	1	1		
FISCHERINA	MARGINATA	1		1	
TSILANDIDAE	HELENAE	12	2	4	4
NONIENIDAE	LABRIDORICA		1	1	
PROTIDIDAE	MAXILL				1
BYRGO	WILLTANSONI	1			
SILICUSICARIDAE	CRISTALLIDICA				1
EUPHONIDAE	EUSTEORNIC	17	2	3	0

FOUNDS					
TOTAL	7		1	1	4
DENSITY	.41		.00	.00	.56

GENUS / SPECIES		COUNTS		
NEGLIOPROBARTINA	PACHYDERMA ST	4		3
NEGLIOPROBARTINA	PACHYDERMA DC	1		1

CORE: 0236
LATITUDE: 42.2442

STATION: 069

SAMPLE TYPE: BENTHOS

PAGE: 1

LONGITUDE: -65.5833

WATER DEPTH(M): 315

DEPTH (CM)	ADIPICOTYLHA GLIBERATA	FEUSIRINA	ASTACOLUS RENIFORMIS	ASTRONOTON GALLOWAYI	BOLIVINA PSEUDOPUNCTATA
0			2	22	
5F				2	
40	1			8	2
70				10	
100				12	1
125				13	
145				10	
150				6	
175		1		4	
200				6	1
225				2	
250					
275					
300					
325				1	
350					
375					
400					
425					

LATITUDE: 39.2473

LONGITUDE: -85.8833

WATER DEPTH(M): 315

DEPTH (CM)	BUCCELLA PENTAGONA	CASSIDULINA LAPIDATA	CASSIDULINA BENTONIFERA	CASSIDULINA SUBALOROSA	CIRRICIDES LOBATULUS
0	27	6	32	11	152
25		3	27		11
50	1	1	160		85
75	1	2	90	5	41
100	1	0	124		104
125	2	0	130	2	61
140	2	1	130	1	76
250	0	2	100		97
175	1		113		30
200		1	205		18
225			53		10
250			20		4
275			11		4
300			21		1
325	2		40		3
350			60		5
375			15		1
400			14		2
425			20		1

DEPTH (CM)	CRIPSTOMIDITES CRESSI-CARON	DENTALINA RODTSCHEROWSKYS	EGGERTIA ADYNA	ELPHIDIELLA ARCTICA	ELPHIDIUM BARTLETTI
0	1		1	2	14
25					
50				5	
75					
100					
125					
140					
150				2	
175		1		1	
200					
225					
250					
275					
300					
325					
350					
375					
400					
425					

LATITUDE: 34° 24' N

LONGITUDE: -85° 58' W

WATER DEPTH(M): 315

DEPTH (CM)	EPISTOMINELLA CYCATHUM	EPHIDILUM CYCATHUM CLAVATA	EDDONTONELLA PULCHRELLA	EPISTOMINELLA EXIGUA	EPISTOMINELLA TAKAYANAGII
0		40			
25		20			
50		110			
75		66			
100	2	64			4
125		117			1
140		110			3
150		110			1
175		111			
200		117	1		
225		84	1		
250		106			
275		21			
300		21			
325		40			1
350		53	1		1
375		12			
400		9			
425		31		1	

DEPTH (CM)	OSTEOGOMPHIA VITIFERA	COONIDES PRADYI	ORIPODSALIS UMBONATUS TENER	COONIDES TUMIDULUS	FISSURINA ANNECTENS
0	4				
25					
50	4	1		2	
75	4	2	2		
100	4	3			
125	4	1			1
140	4	4	3		
150	4	2			
175		1			
200	2	2			
225	1				
250	1				
275					
300					
325					
350					
375	1				
400		1			
425					

DEPTH (CM)	FISSURINA CRENATA	FISSURINA LUCIDA	FISSURINA MARGINATA	FISSURINA SERRATA	FISSURINA VENTRICOSA
0			7		3
25					
50	4		1		
75			1		
100	1				
125			1		
140			1	1	
150	1		2		
175	1				
200					
225			1		
250					
275					
300			1		
325					
350					
375					
400					
425					

DATE: 8/14
LATITUDE: 42.7619

STATION: 049

SAMPLE TYPE: BENTHOS

PAGE: 7

LONGITUDE: -95.1833

WATER DEPTH(M): 315

DEPTH (CM)	GUTTULINA GLACIALIS	HYPERAMMOMA ELONGATA	ISLANDIELLA HELLENIC	ISLANDIELLA NORCKOSKI	CASSIDULINA TERETIS
0			20		
25			4	1	2
50			36	1	
75			15	2	
100			43	10	
125			28	1	
140			14	2	
150			22	8	
175			58	6	
200			78	4	
225			13		
250			3		
275			2		
300			4		
325			4		
350		4	4		
375			2		
400					
425			0		

CORE: 40-24
LATITUDE: 63.2683

STATION: 060

SAMPLE TYPE: BENTHOS

PAGE: 6

LONGITUDE: -55.5433

WATER DEPTH(M): 315

DPTH (CM)	LACINA STRIATA	LANTICULINA ALBATORGETI	MILONIS ZANDAMA	NONION GRATELOUPT	NONIONELLINA LABRADORICA
0		1	1		4
25					2
50			2	1	4
75			2		
100			5		7
125			5		2
140			4		5
150					4
175			7		21
200			5		6
225					
250					1
275					
300					1
325					
350					1
375					
400					
425					

CORR: 02024
LATITUDE: 42.2450

STATION: 050

SAMPLE TYPE: BENTHOS

PAGE: 9

LONGITUDE: -68.5833

WATER DEPTH(M): 315

DEPTH (CM)	OLLINA MILC	OLLINA SQUAMOSA	PALLOPS HABERTINOES	PLANULINA MUELLERSTORFI	PROTOLPHIDIUM NANUM
0	2				3
25					
50				2	2
75					
100					4
125					
140			2		1
150					
175					
200		1			
225					
250					
275					
300					
325					1
350					
375					
400					
425					

DEPTH: 3034
LATITUDE: 62.2482

STATION: 269

SAMPLER TYPE: BENTHOS

PAGE: 10

LONGITUDE: -58.4833

WATER DEPTH(M): 315

DEPTH (CM) 0-25

PSILLOPORIDYMOSEPHINA
MORPHOLIAE

PYRRO
WILLIAMSONI

QUINQUELOCULINA
STALKERI

QUINQUELOCULINA
VULGARIS

24

4

2

1

4

5

2

1

1

1

1

CORE: 39634
LATITUDE: 52.762

STATION: 049

SAMPLE TYPE: BENTHOS

PAGE: 11

LONGITUDE: -65.5033

WATER DEPTH(M): 915

DEPTH (CM)	PLIPHAY ARCTICA	STELIOSICOMYLINA ORIFLORANDICA	TEXTULARIA LARLANDI	TEXTULARIA TORQUATA	TRIFARINA FLUENS
0					1
25					
50				1	
75					
100					
125					
140			1		
150					1
175					
200					
225					
250					
275					
300					
325		1			
350		2			
375		1			
400					
425					

CORE: 12034
 LATITUDE: 42.1400

STATION: 640

SAMPLE TYPE: BENTHOS

PAGE: 12

LONGITUDE: -85.5833

WATER DEPTH(M): 315

DEPTH (CM)	THURTELLIINA ARCTICA	EURYGNATHA EUSTERNIS	GLORICERTINA BULLIIDIUS	GLORIGERINA QUINQUELOBA	NEOTLORQUADRINA PACHYDERMA SINISTRAL
0					27
25					20
50		0	5		97
75		4			58
100		10	3		105
125	1	1	2	1	114
140		0		1	82
150		4			34
175		1	2		61
200	1	19			28
225		14			6
250		17			
275		2			1
300		3			1
325		0			3
350		10			
375		1			
400		1			
425		2			

DATE: 01/04
LATITUDE: 42.2472

STATION: 060

SAMPLE TYPE: BENTHOS

PAGE: 13

LONGITUDE: -65.5833

WATER DEPTH(M): 315

DEPTH
(CM) SAMPLE FROM

DEPTH (CM)	SAMPLE FROM
0	
25	1
50	2
75	1
100	4
125	4
140	
150	
175	2
200	1
225	1
250	
275	
300	
325	1
350	
375	
400	
425	

LATITUDE: 43.2413

LONGITUDE: -55.2433

WATER DEPTH(M): 315

DEPTH
(CM) 0-10

CASSIDULINA
PENIFORMIS

CIBICIDES
LOBRATHUS

ELPHIDIUM
EXCAVATUM CLAVATA

FISSURINA
CRERRA

40

7

44

1

DATE: 02.16
LATITUDE: 52.2452

STATION: 669

SAMPLE TYPE: BENTHOS-CC

PAGE: 2

LONGITUDE: -65.5823

WATER DEPTH(M): 315

DITH YSLAND/FLY
(CM) HELIUM

NELONTS
7AANDAMAE

TURRISPIRILLINA
ARCTICA

FURSENKOINA
FUSIFORMIS

NEOGLOBOQUADRINA
PACHYDERMA SINSTRAL

6

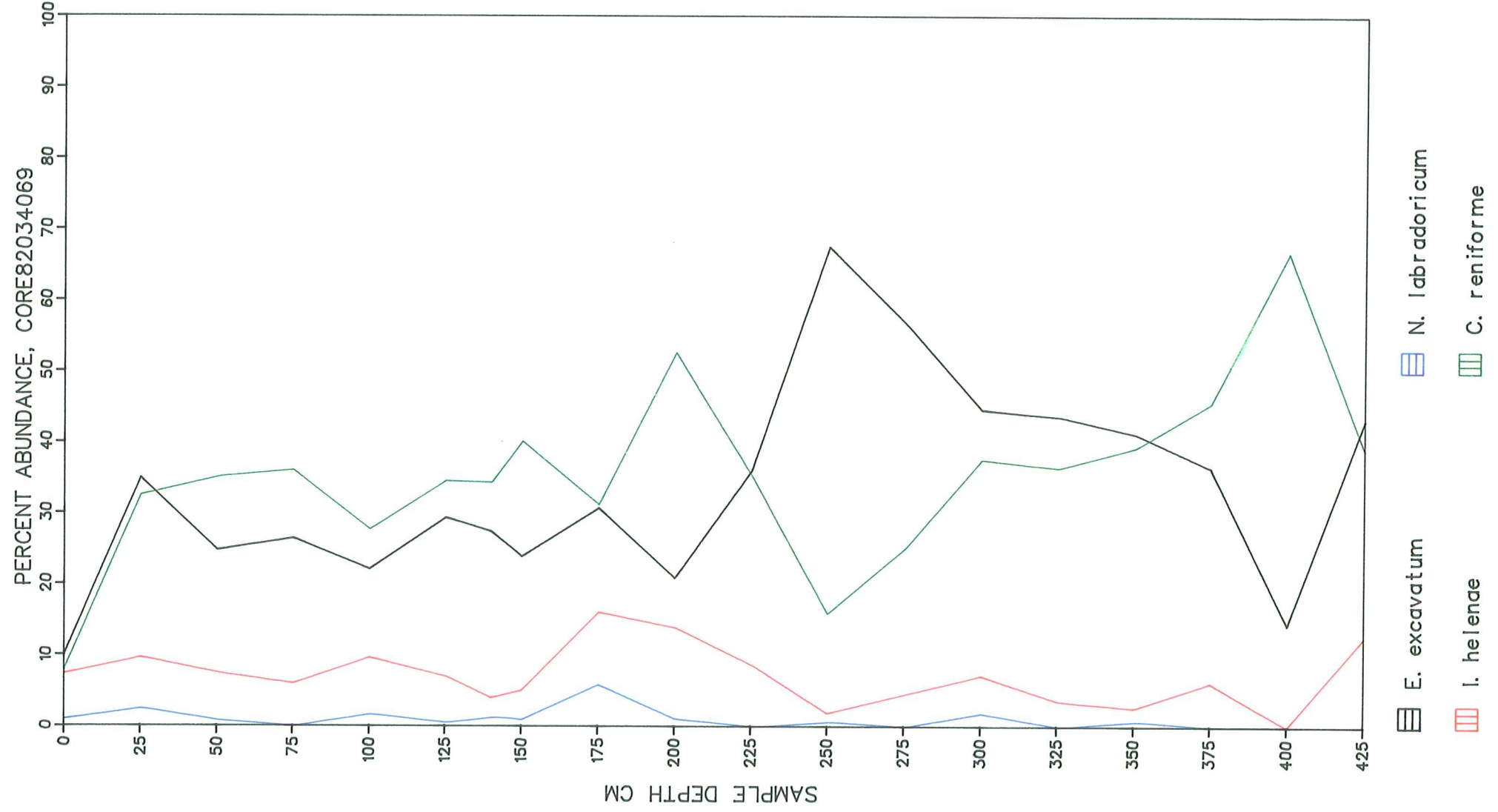
1

1

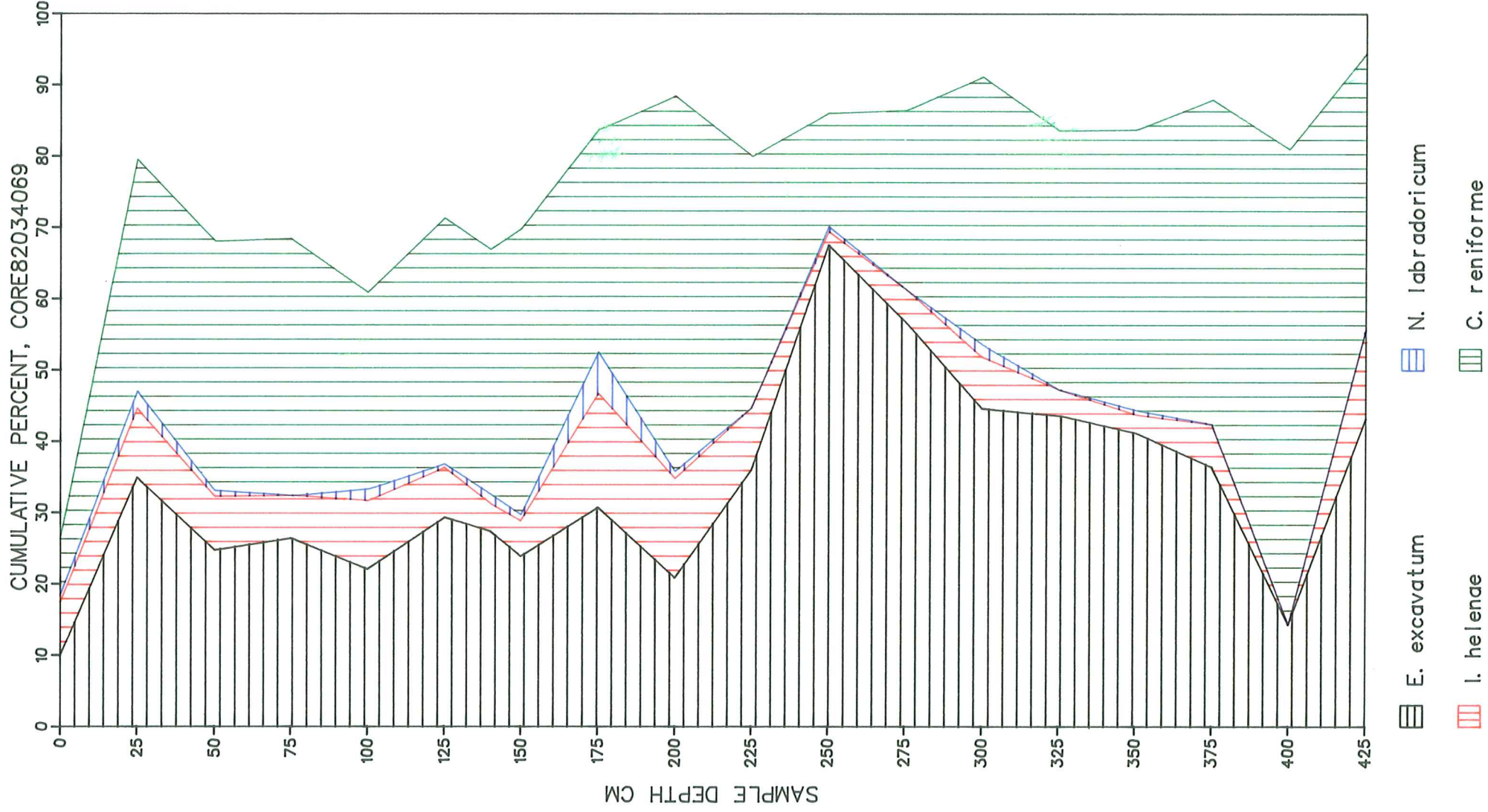
7

3

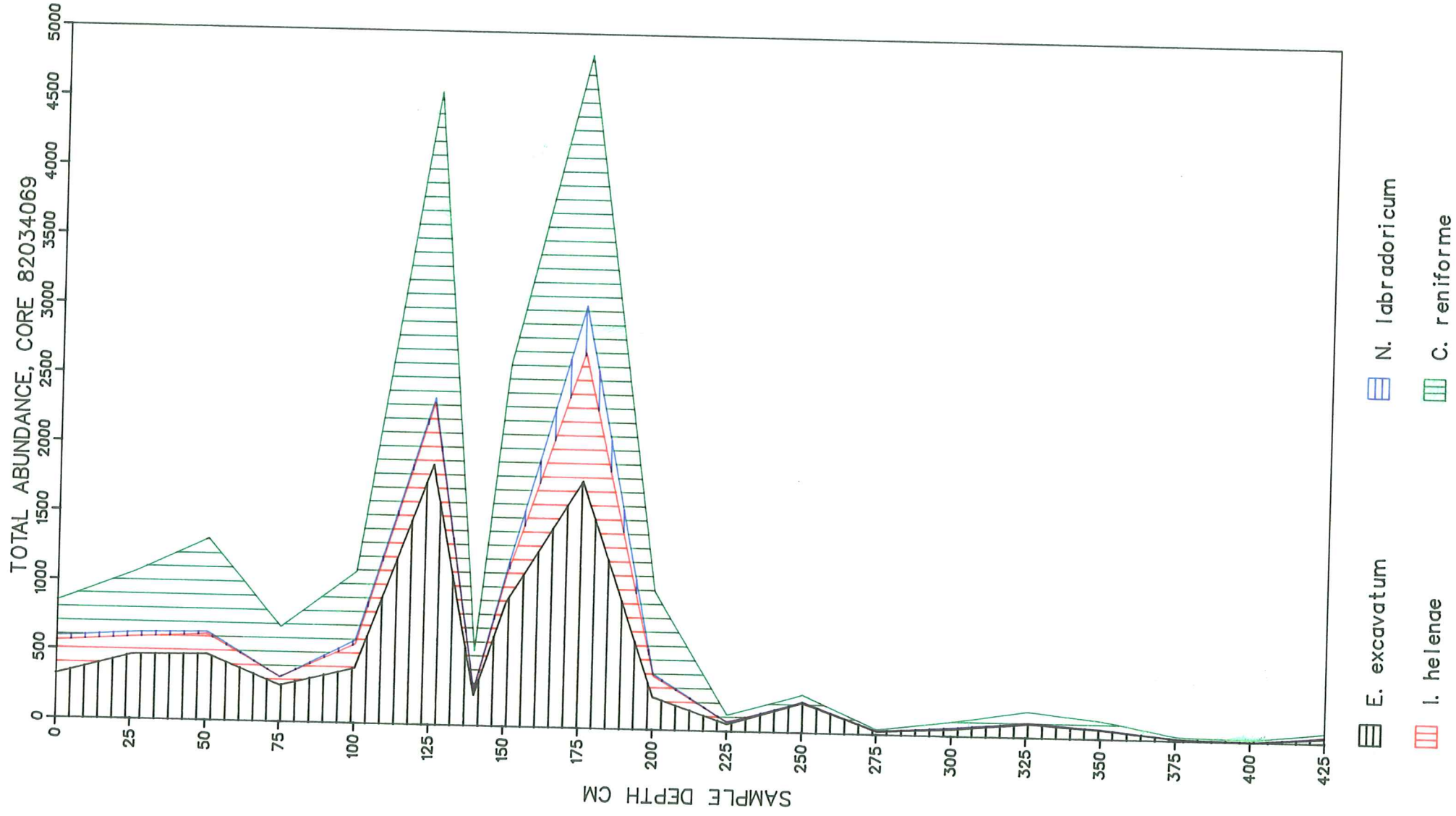
A



(b)



10



Appendix 18

Computer Compilation Procedure


```

*
*
* SOLICIT USER INPUT
*
ATTACH,PGMBUGS.
GTR,PGMBUGS,ASK.ABS/ASK
ASK.
*
* ACCESS THE 2K DATABASE BUGS
*
NOTE.
NOTE./QUATERNARY DATA BASE ACCESSED
NOTE./PLEASE WAIT.
NOTE.
REWIND,INFO,MESSAG.
ATTACH,S2K=S2KM280/UN=LIBRARY.
S2K,C=DIRECT,M=LOST.
RETURN,S2K,DIRECT.
REWIND,*.
```

*
* CHECK THE REPORT FILES FOR DATA
*

```

GTR,PGMBUGS,CHECK.ABS/CHECK
CHECK.
REWIND,*.
```

*
* EXECUTE THE PLOT PROCEDURE
*

```

PLOT.
RETURN(*,BUGS,DIRECT,THEJOB)
*
.DATA,DIRECT
USER,SEEKER;ACCOUNT IS IAM2501;MESSAGE FILE IS DUMMY;
SHARED DBN IS BUGS;COMMAND FILE IS MESSAG;
.DATA,THEJOB
/JOB
/NOSEQ
QUATPLO,CMI 30000,T50.
/USER
CHARGE,AGCI,RR.
COPYBR,,INFO.
COPYBR,,REPORT.
REWIND,REPORT,INFO.
ATTACH,PGMBUGS/M=R.
*
* EXECUTE PROGRAM CALC
*
GTR,PGMBUGS,CALC.ABS/CALC
CALC.
REWIND,LIMITS,DATA.
*
```

```
*
* EXECUTE THE PLOT PROGRAM
*
GET,TEMPNEW.
ATTACH,DISSPLA/UN=LIBRARY.
LDSET,PRESET=ZERO.
LDSET,LIB=DISSPLA.
TEMPNEW.
GET,AUTOSAV/UN=LIBRARY.
*
* EXECUTE POST PROCESSOR AND PLOTOFF
*
REWIND,PLSEND.
REWIND,PLSEND.
PLSEND.
EXIT.
DAYFILE=NO.
REPLACE,NO.
/EOR
/NOSEQ
/READ,INFO
/EOR
/READ,REPORT
/EOR
DRAW=1$
/EOR
PLOTOFF COMMENTS
COULD I HAVE A TOTAL OF 5 COPIES, THANK YOU !
/EOR
```


Appendix 19

BUGS Quaternary Database Definition

QUATERNARY DATABASE DEFINITION

DATA BASE NAME IS BUGS

DEFINITION NUMBER 10

DATA BASE CYCLE 926

- 1* CRUISE (CHAR X(6));
- 2* STATION (CHAR X(8));
- 3* TYPE (CHAR X(11));
- 4* LAT (DECIMAL NUMBER 999.9999);
- 5* LONG (DECIMAL NUMBER 9999.9999);
- 6* WATER DEPTH (INTEGER NUMBER 9999);
- 7* CORE LENGTH (INTEGER NUMBER 9(5));
- 8* STN TYP (CHAR XX);
- 10* INTERVAL (RECORD);
 - 11* TOP (INTEGER NUMBER 9(5) IN 10);
 - 12* BOTTOM (INTEGER NUMBER 9(5) IN 10);
- 100* SAMPLE (RECORD IN 10);
 - 101* LAB DATE (DATE IN 100);
 - 102* ANALYST (CHAR X(20) IN 100);
 - 103* VOL (INTEGER NUMBER 999 IN 100);
 - 104* WET WT (DECIMAL NUMBER 999.9 IN 100);
 - 105* DRY WT (DECIMAL NUMBER 999.9 IN 100);
 - 106* SPLIT (INTEGER NUMBER 9999 IN 100);
 - 107* SIEVE (DECIMAL NUMBER 9.999 IN 100);
 - 108* LITHOCLASTS (CHAR X(6) IN 100);
 - 109* STAIN (CHAR X(10) IN 100);
 - 110* STATE (CHAR X(10) IN 100);
 - 111* INFO (TEXT X(10) IN 100);
- 150* OCCURRENCE (RECORD IN 100);
 - 151* UTN (INTEGER NUMBER 9(6) IN 150);
 - 152* GENUS (TEXT XXXX IN 150);
 - 153* SPECIES (TEXT XXXX IN 150);
 - 154* CNT (INTEGER NUMBER 9(5) IN 150);
 - 155* COLLECTION NUMBER (NON-KEY CHAR XXX IN 150);
 - 156* QUALIF (TEXT XX IN 150);
 - 157* REWORK (TEXT XX IN 150);
 - 158* PRES (TEXT X IN 150);
- 200* DATING (RECORD IN 10);
 - 201* AGE (INTEGER NUMBER 9(5) IN 200);
 - 202* SD (INTEGER NUMBER 9999 IN 200);
 - 203* MATERIAL (CHAR X(6) IN 200);
 - 204* STAGE (INTEGER NUMBER 99 IN 200);

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STATION LOCATIONS - HUDSON 82034

