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INDEX TO SAMPLES COLLECTED BY THE ATLANTIC GEOSCIENCE CENTRE IN 1984

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GSC Open File Report- Atlantic Geoscience Centre

An Index to Samples Collected by the Atlantic Geoscience Centre for 1984

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GSC Project: 830053

ABSTRACT

The Atlantic Geoscience Centre (AGC) at the Bedford Institute of Oceanography (BIO) is responsible for providing and assisting with the procurement and curation of core, dredge, grab and other marine geological samples routinely collected onboard government oceanographic/ hydrographic survey vessels off the East Coast of Canada and High Arctic, and from Geological Survey of Canada field parties conducted onshore Eastern Canada by AGC staff.

One mandate of the Geological Survey of Canada is to protect all fundamental resources for geoscientific study in Canada. To meet this responsibility, the Program Support Subdivision at AGC maintains all soft sediment marine samples within the confines of a core sample repository located at BIO. In 1984, 14 sampling cruises and 7 field programs obtained samples from more than 450 locations. A Sample Management System on the BIO Cyber mainframe in System 2000 provides direct access to the storage location, procurement, sampling history and processing for these samples. Plots of the samples obtained in 1984 are included at a scale of 1:1,000,000 and 1:6,000,000.

INTRODUCTION

Data Section is a part of the Program Support Subdivision of the Atlantic Geoscience Centre (AGC). This group provides the safe archiving and cataloguing of the Atlantic Geoscience Centre's data collections and holdings acquired during any given field season. This report provides an index to those samples collected onboard Canadian scientific survey vessels (Figs.1,2,3 and 4) or from onshore field parties (Fig.5) conducted by AGC staff in 1984. The initiation and implementation of a Sample Information Database, acronym SID during 1984 has permitted all of the incoming samples from the field to be documented for publication. These indices to AGC's sample holdings will be released on a regular annual basis with the initiation of the 1984 index as a GSC Open File report. The 1984 cruise station information has also been submitted to the National Geophysical Data Centre (NGDC), in Boulder Colorado for inclusion with the Worldwide Marine Geological Database. This is an interactive inventory information database on marine sediment and hard rock samples from the ocean floor worldwide.

DATA SOURCES

The information gathered together for this index has been mainly derived from cruise sample sheets that must be submitted upon completion of any given fiel trip or cruise. This information is checked and verified upon receipt of the sample material for curation and includes: location of sample, collector and ship, geographic area, longitude and latitude, GSC project number, water depth (m), total length (cm) and time of collection. The data has been compiled on a Sample Management System on the BIO Cyber mainframe in System 2000. Appendix I A and 1B outline the data required for each sample in the Sample Information Data base (SID). Sample entries for the 1984 index have been ordered according to cruise number in Appendix II.

This information is routinely updated from the time of initial data entry. All processing and subsampling of curated sediments must be approved prior to accessing the sample material. An AGC subsample chit is generated on these occassions and authorized by the AGC Curator before sampling can commence. In this way a record of what subsampling and anaylses is to be performed can be documented, recorded and subsequently followed-up within a given period of time.

SAMPLE DATA REQUESTS

Requests for AGC sample data availability should be directed to the Director, Atlantic Geoscience Centre, Bedford Institute of Oceanography, P.O.Box 1006, Dartmouth, Nova Scotia, Canada B2Y 4A2. Plots of sample locations within specified boundaries can also be directed to the Data Management Section, Atlantic Geoscience Centre at the above address or phone (902)426-3410.

FIGURE 1

1984 CORE SAMPLES ON THE EAST COAST

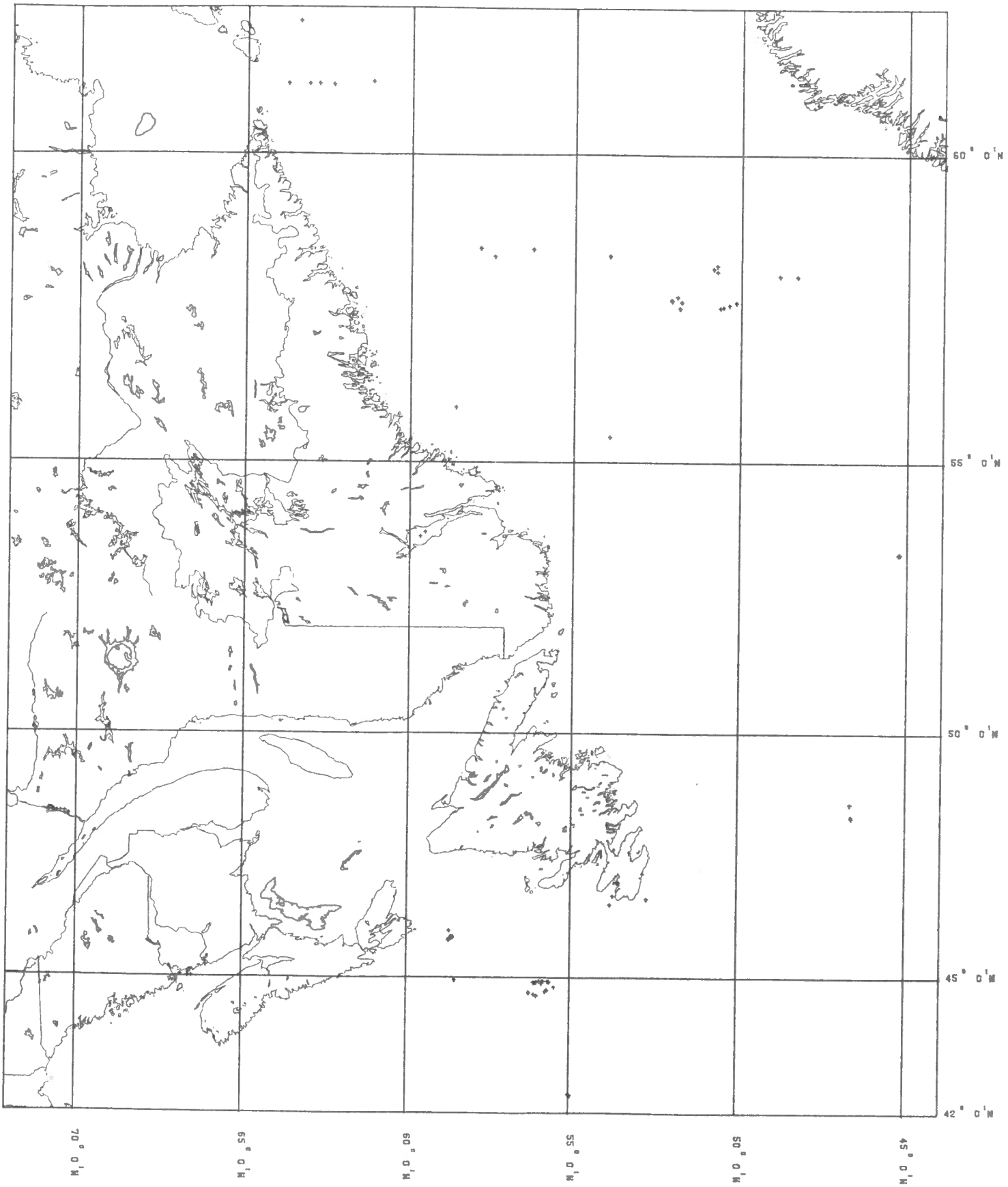
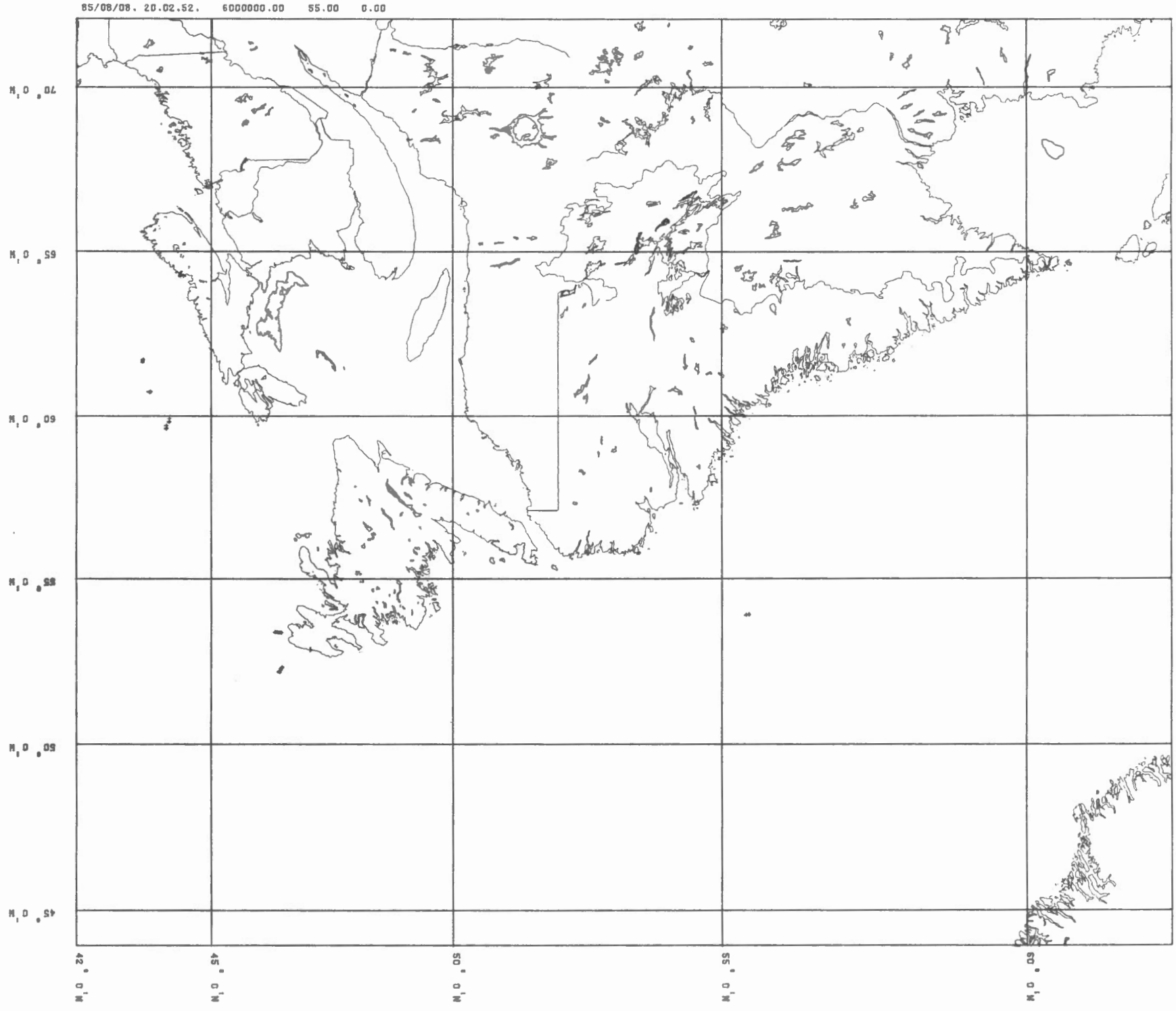


FIGURE 2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70° 0'N
65° 0'N
60° 0'N
55° 0'N
50° 0'N
45° 0'N
42° 0'N
45° 0'N
50° 0'N
55° 0'N
60° 0'N

FIGURE 3

984 CORE SAMPLES IN THE HIGH ARCTIC

UNIAPSAMP

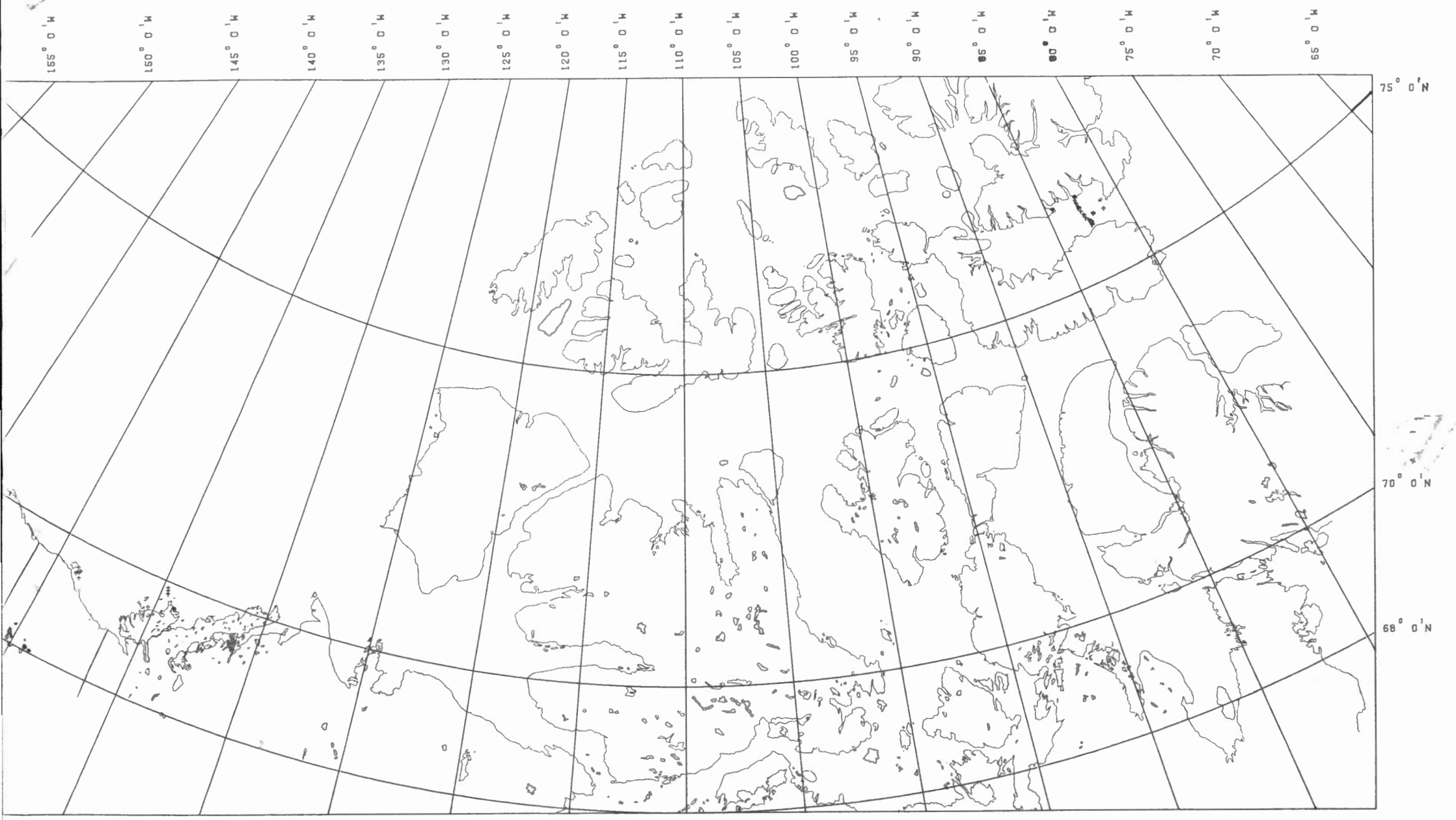


FIGURE 4

155° 0'W 150° 0'W 145° 0'W 140° 0'W 135° 0'W 130° 0'W 125° 0'W 120° 0'W 115° 0'W 110° 0'W 105° 0'W 100° 0'W 95° 0'W 90° 0'W 85° 0'W 80° 0'W 75° 0'W 70° 0'W 65° 0'W

75° 0'N

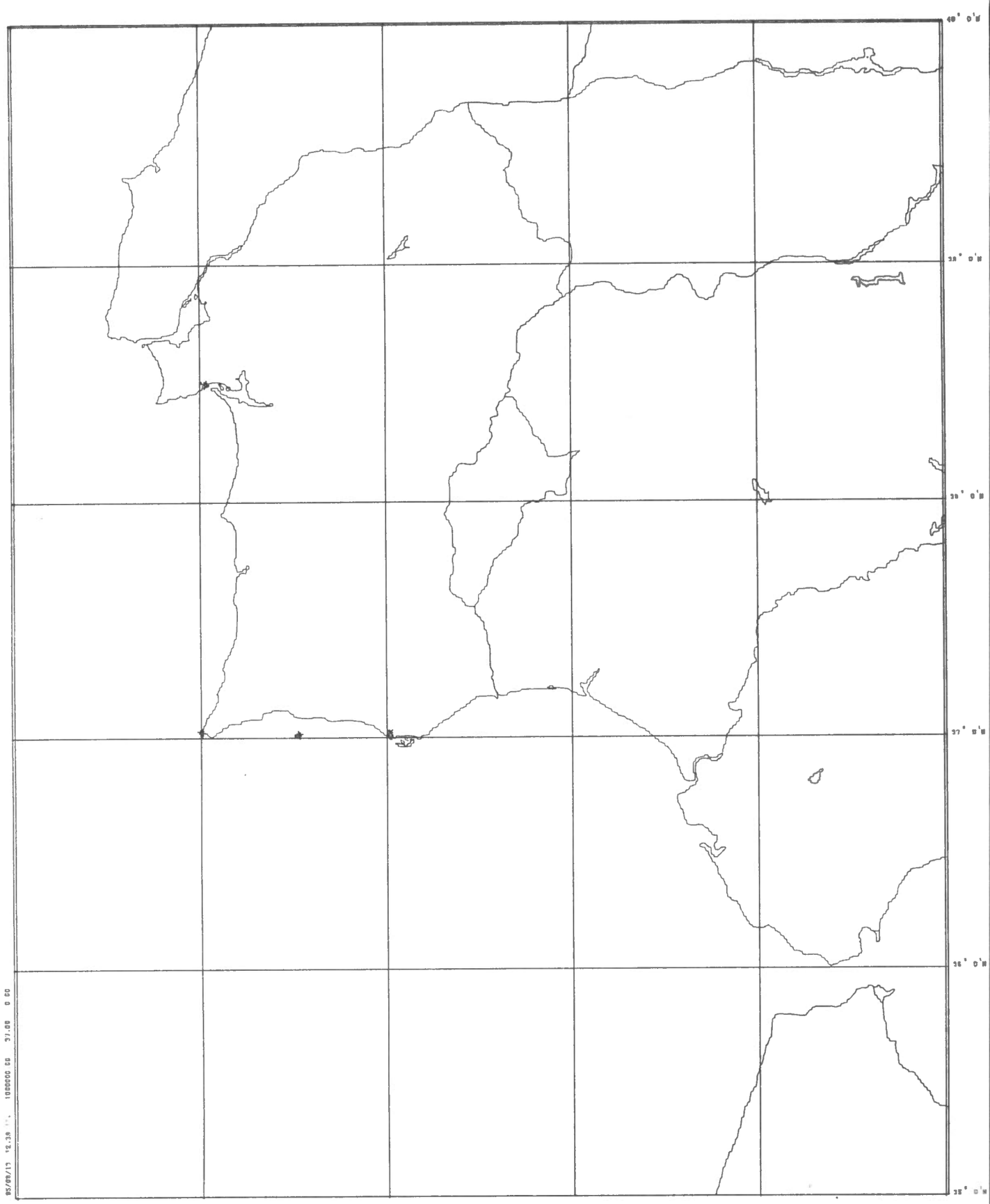
70° 0'N

68° 0'N

85/08/12. 18.52.58. . 6000000.00 70.00 75.00

FIGURE 5

1984 PORTUGAL BEACH SAMPLES



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=IAP,SAMP

APPENDIX iA

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  2%  LATITUDE (DECIMAL NUMBER 9999.9(5));
  3%  LONGITUDE (DECIMAL NUMBER 9999.9(5));
  4%  CRUISE (CHAR X(5));
  5%  PROJECT (CHAR X(5));
  6%  GEOCHEMICAL NUMBER (INTEGER NUMBER 9(7));
  7%  COLLECTOR/SCIENTIST/SHIP (CHAR X(7));
  8%  SAMPLE TYPE (CHAR X(6));
  9%  BIN (INTEGER NUMBER 9999);
 10%  BOX (INTEGER NUMBER 999);
 11%  CARRIAGE (CHAR X(5));
 12%  SLOT (INTEGER NUMBER 9(5));
 13%  GEOGRAPHIC AREA (CHAR X(5));
 14%  TIME (NON-KEY INTEGER NUMBER 9999);
 15%  JULIAN DATE (NON-KEY INTEGER NUMBER 999);
 16%  YEAR (NON-KEY INTEGER NUMBER 9999);
 17%  INSTRUMENT TYPE (CHAR X(5));
 18%  WATER DEPTH (DECIMAL NUMBER 9(5).99);
 19%  WATER DEPTH UNITS (NON-KEY CHAR X(5));
 20%  TOTAL CM LENGTH (NON-KEY DECIMAL NUMBER 9999.9);
 21%  DIAMETER (NON-KEY DECIMAL NUMBER 999.9);
 22%  PENETRATION CM (NON-KEY DECIMAL NUMBER 9999.9);
 23%  NUMBER OF SECTIONS (NON-KEY INTEGER NUMBER 99);
 24%  DRILL TIME (NON-KEY DECIMAL NUMBER 999.99);
 25%  TWC WEIGHT (NON-KEY DECIMAL NUMBER 999.9);
 26%  CAMERA SETTING (NON-KEY CHAR X(5));
 27%  EXPOSURE TIME (NON-KEY DECIMAL NUMBER 999.99);
 28%  NUMBER OF EXPOSURES (NON-KEY INTEGER NUMBER 9(5));
 29%  JAWS OPEN/CLOSED (NON-KEY CHAR X(6));
 30%  MEASURMENTS (NON-KEY INTEGER NUMBER 9(5));
 31%  MEASURMENT UNITS (NON-KEY CHAR X(5));
 32%  % FULL (NON-KEY DECIMAL NUMBER 999.99);
 33%  % ORGANIC (NON-KEY DECIMAL NUMBER 999.99);
 34%  MUNSELL SOIL COLOUR CODE (NON-KEY CHAR X(8));
 35%  COLOUR (NON-KEY CHAR X(10));
 36%  DESCRIPTION (NON-KEY CHAR X(5));
 37%  NUMBER OF ATTEMPTS (NON-KEY INTEGER NUMBER 999);
 38%  LAT DEGREE (INTEGER NUMBER 9999);
 39%  LAT MINUTES (DECIMAL NUMBER 99.99);
 40%  LONG DEGREE (INTEGER NUMBER 9999);
 41%  LONG MINUTES (DECIMAL NUMBER 99.99);
 42%  SAMPLE NUMBER (CHAR X(5));
 43%  STATION NUMBER (CHAR X(5));
 44%  SUBSAMPLE INTERVAL (CHAR X(10));
 45%  ODS LAT (NON-KEY INTEGER NUMBER 999);
 46%  ODS LON (NON-KEY INTEGER NUMBER 9999);
 47%  ARCHIVE/WORKING (NON-KEY CHAR X(7));
 48%  LOAD DATE (DATE);
100%  PARTICLES (RECORD);
  110%  AMOUNT OF PARTICLES (NON-KEY CHAR X(5) IN 100);
  120%  SIZE CLASSIFICATION (NON-KEY CHAR X(5) IN 100);
200%  NOTES (RECORD);
  210%  SAMPLE NOTES (NON-KEY CHAR X(6) IN 200);
300%  TYPE OF ANALYSIS (RECORD);
  310%  ANALYSIS TYPE (CHAR X(5) IN 300);
  320%  INTERVAL OF TESTING (NON-KEY CHAR X(5) IN 300);
  330%  WORK (DATE IN 300);
  340%  LABORATORY (NON-KEY CHAR X(5) IN 300);
  350%  REFERENCE (NON-KEY CHAR X(5) IN 300);
400%  LOAN (RECORD);
  410%  NAME (NON-KEY CHAR X(5) IN 400);
  420%  AFFILIATION (NON-KEY CHAR X(5) IN 400);
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      450*  PURPOSE (NON-KEY CHAR X(5) IN 400);
    500*  PUBLICATIONS (RECORD);
      510*  AUTHOR (CHAR X(5) IN 500);
      520*  P-TO-P NUMBER (NON-KEY INTEGER NUMBER 9999 IN 500);
    600*  SAMPLE (RECORD);
      601*  TECHNIQUE (NON-KEY CHAR X(5) IN 600);
      602*  % SAND (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      603*  % GRAVEL (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      604*  % SILT (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      605*  % CLAY (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      606*  ST DEV (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      607*  KURTOSIS (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      608*  SKEWNESS (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      609*  MEAN GRAIN DIAMETER (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      610*  MEDIAN (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      611*  TOP OF INTERVAL (NON-KEY DECIMAL NUMBER 9999.9 IN 600);
      612*  BOTTOM OF INTERVAL (NON-KEY DECIMAL NUMBER 9999.9 IN 600);
      613*  SUBSAMPLE NUMBER (INTEGER NUMBER 9(6) IN 600);
      614*  LAB ANALYSIS NUMBER (CHAR X(5) IN 600);
      615*  QUARTILE 1 [25%] (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      616*  QUARTILE 3 [75%] (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      617*  QD [[Q3 - Q1]/2] (NON-KEY DECIMAL NUMBER 99.99 IN 600);
      620*  PHI (RECORD IN 600);
        621*  PHI SIZE (NON-KEY DECIMAL NUMBER 99.9999 IN 620);
        622*  % (NON-KEY DECIMAL NUMBER 99.999 IN 620);
      630*  LAB NOTES (RECORD IN 600);
        631*  LAB ANALYSIS NOTES (NON-KEY CHAR X(5) IN 630);
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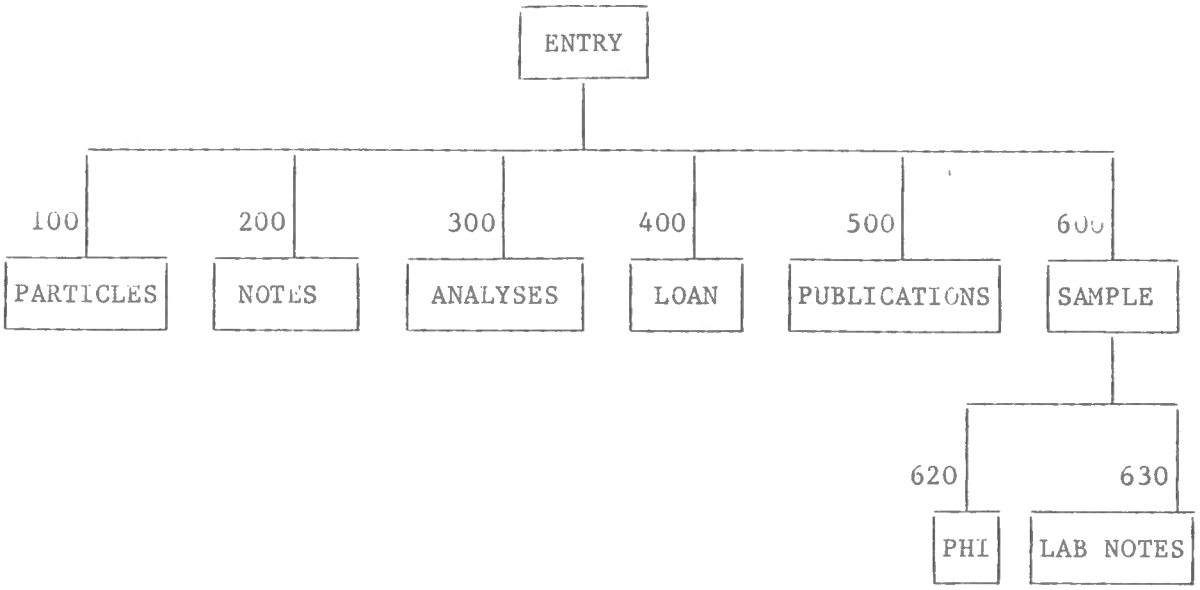
APPENDIX 1B

APPENDIX I.B.1

HIERARCHY DIAGRAM



APPENDIX I.B.2

TYPES

SAMPLE TYPES

beach
camera
core
dredge
grab
water
outcrop

INSTRUMENT TYPES

box
benthos
drill
Epibenthic Sled
Failing 1500
gravity
IKU
Lehigh
MUN penetrometer
Nisken
penetrometer
piston
Shelby
shipbourne
Shipek
submersible
Troika
URI long corer
VAN VEEN
vibracorer

APPENDIX II

CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	JULIAN	SAMPLE
* 84ARCTIC PROWLER	001	44 0' 22"	- 59 51' 46"	800036	AMOS,C.	OLYMPIA-SCOTIA SHELF	266	GRAB
* 84ARCTIC PROWLER	002	43 56' 25"	- 59 39' 33"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	267	GRAB
* 84ARCTIC PROWLER	003	43 56' 22"	- 59 39' 33"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	267	GRAB
* 84ARCTIC PROWLER	004	43 56' 24"	- 59 44' 28"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	267	GRAB
* 84ARCTIC PROWLER	005	43 56' 28"	- 59 39' 33"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	267	GRAB
* 84ARCTIC PROWLER	006	43 56' 27"	- 59 39' 25"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	267	GRAB
* 84ARCTIC PROWLER	007	44 0' 20"	- 59 51' 55"	800036	AMOS,C.	OLYMPIA-SCOTIA SHELF	268	GRAB
* 84ARCTIC PROWLER	008	44 0' 23"	- 59 51' 52"	800036	AMOS,C.	OLYMPIA-SCOTIA SHELF	268	GRAB
* 84ARCTIC PROWLER	009	44 0' 26"	- 59 57' 56"	800036	AMOS,C.	OLYMPIA-SCOTIA SHELF	268	GRAB
* 84ARCTIC PROWLER	010	44 0' 22"	- 59 52' 1"	800036	AMOS,C.	OLYMPIA-SCOTIA SHELF	268	GRAB
* 84ARCTIC PROWLER	011	43 56' 22"	- 59 39' 41"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	270	GRAB
* 84ARCTIC PROWLER	012	43 56' 19"	- 59 39' 41"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	270	GRAB
* 84ARCTIC PROWLER	013	43 56' 18"	- 59 39' 36"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	270	GRAB
* 84ARCTIC PROWLER	014	43 56' 19"	- 59 39' 28"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	270	GRAB
* 84ARCTIC PROWLER	015	43 56' 22"	- 59 39' 29"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	270	GRAB
* 84ARCTIC PROWLER	019	43 56' 23"	- 59 39' 58"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	301	GRAB
* 84ARCTIC PROWLER	020	43 56' 28"	- 59 39' 50"	800036	AMOS,C.	VENTURE-SCOTIA SHELF	301	GRAB

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE	TYPE
*	84PORTUGAL	F12.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.10	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.11	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.3	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.4	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.5	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.6	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.7	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.8	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F12.9	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F1.1	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F1.2	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F1.3	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F2.1	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F4.1	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F4.13	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F4.16	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F4.5	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F4.7	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F5.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F5.2	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F5.3	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F6.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F6.2	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F6.3	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F6.4	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F6.5	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F7.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F7.2	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	ALGARVE,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F7.3	37 30' 0"	- 8 0' 0"	740004	GRADSTEIN,F.	ALGARVE,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F9.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F9.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	F9.3	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE	TYPE
*	84PORTUGAL	008	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.10	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.11	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.12	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.13	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.14	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.15	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.16	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.17	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.18	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.19	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.3	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.4	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.5	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.6	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.7	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.8	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	11.9	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	MONTEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	13.13	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	13.14	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	13.15	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	13.16	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	13.17	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	14.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	14.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	15.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	15.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE	TYPE
*	84PORTUGAL	16.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.10	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.11	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.12	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.13	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.14	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.15	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.3	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.4	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.5	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.6	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.6A	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.7	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.8	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.9	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	16.9A	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	17.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	17.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	SOUTHERN PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3-12	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.1	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.10	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.11	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.2	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.3	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.4	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.5	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.6	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.7	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.8	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	3.9	37 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	ALGARVE, PORTUGAL	BEACH	OUTCROP

CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE	TYPE
* 84PORTUGAL	4.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.10	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.11	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.12	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.13	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.14	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.15	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.16	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.17	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.2	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.3	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.4	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.4	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.5	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.6	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.7	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.8	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.8	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	4.9	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	5.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	5.3	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	5.3	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	5.4	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	ALBUFEIRA, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	6.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	6.2	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	6.3	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	6.4	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
* 84PORTUGAL	6.5	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE	TYPE
*	84PORTUGAL	6.6	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	6.7	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	7.1	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	7.2	37 30' 0"	- 8 30' 0"	740004	GRADSTEIN,F.	SOUTH ALGARVE, PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	8.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	9.1	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	9.2	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP
*	84PORTUGAL	9.3	38 30' 0"	- 9 0' 0"	740004	GRADSTEIN,F.	PEREIRO AND MON TEJUNTO,PORTUGAL	BEACH	OUTCROP

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	84SEQUEL	001A	69 34' 18"	-134 9' 23"	700092	HILL,P./SEQUEL	BEAUFORT SEA	23.00	210	CORE	SHELBY	78.0
*	84SEQUEL	001B	64 34' 18"	-134 9' 23"	700092	HILL,P./SEQUEL	BEAUFORT SEA	23.00	210	CORE	SHELBY	60.0
*	84SEQUEL	009	69 50' 49"	-134 48' 12"	700092	HILL,P./SEQUEL	BEAUFORT SEA	10.00	193	CORE	SHELBY	28.0
*	84SEQUEL	010	69 48' 5"	-134 45' 4"	700092	HILL,P./SEQUEL	BEAUFORT SEA	10.00	193	CORE	SHELBY	15.0
*	84SEQUEL	011	69 45' 21"	-134 42' 26"	700092	HILL,P./SEQUEL	BEAUFORT SEA	6.00	193	CORE	SHELBY	17.0
*	84SEQUEL	015	69 22' 58"	-138 41' 13"	700092	HILL,P./SEQUEL	BEAUFORT SEA	13.47	194	CORE	SHELBY	28.0
*	84SEQUEL	016	69 25' 45"	-138 56' 19"	700092	HILL,P./SEQUEL	BEAUFORT SEA	11.00	194	CORE	SHELBY	16.0
*	84SEQUEL	018	69 27' 40"	-138 52' 31"	700092	HILL,P./SEQUEL	BEAUFORT SEA	51.00	194	CORE	SHELBY	91.0
*	84SEQUEL	019	69 27' 36"	-138 47' 35"	700092	HILL,P./SEQUEL	BEAUFORT SEA	34.00	194	CORE	SHELBY	81.0
*	84SEQUEL	020	69 29' 41"	-138 44' 46"	700092	HILL,P./SEQUEL	BEAUFORT SEA	15.00	194	CORE	SHELBY	50.0
*	84SEQUEL	022	69 24' 33"	-132 59' 6"	700092	HILL,P./SEQUEL	BEAUFORT SEA	12.00	209	CORE	SHELBY	70.0
*	84SEQUEL	023	69 31' 49"	-138 54' 55"	700092	HILL,P./SEQUEL	BEAUFORT SEA	45.00	194	CORE	SHELBY	39.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	84003	001	44 35' 44"	- 56 18' 2"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1063.00	61	CORE	PISTON	348.0
*	84003	001	44 35' 44"	- 56 18' 2"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1063.00	61	CORE	TWC	43.0
*	84003	002	44 33' 20"	- 56 8' 46"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1793.00	61	CORE	PISTON	16.0
*	84003	003	44 31' 29"	- 56 3' 35"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	2013.00	61	CORE	PISTON	129.0
*	84003	004	44 39' 0"	- 55 45' 5"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1405.00	62	CORE	PISTON	823.0
*	84003	004	44 39' 0"	- 55 45' 5"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1405.00	62	CORE	TWC	84.0
*	84003	005	44 36' 57"	- 55 47' 49"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1537.00	62	CORE	PISTON	809.0
*	84003	006	25 25' 39"	- 55 49' 56"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	2661.00	62	CORE	TWC	65.0
*	84003	007	44 42' 31"	- 55 32' 1"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1124.00	62	CORE	PISTON	616.0
*	84003	007	44 42' 31"	- 55 32' 1"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1124.00	62	CORE	TWC	28.0
*	84003	008	44 48' 26"	- 56 6' 39"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	560.00	63	CORE	TWC	117.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	84003	008	44 48' 26"	- 56 6' 39"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	560.00	63	CORE	PISTON	624.0
*	84003	009	44 49' 3"	- 56 4' 14"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	586.00	63	CORE	TWC	106.0
*	84003	009	44 49' 3"	- 56 4' 14"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	586.00	63	CORE	PISTON	783.0
	84003	010	44 50' 11"	- 55 58' 41"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	564.00	63	CORE	PISTON	719.0
*	84003	011	44 50' 7"	- 55 54' 5"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	586.00	63	CORE	PISTON	827.0
*	84003	012	44 50' 4"	- 55 51' 30"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	571.00	63	CORE	PISTON	752.0
*	84003	013	44 49' 57"	- 55 44' 4"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	483.00	63	CORE	PISTON	672.0
*	84003	014	44 50' 1"	- 55 42' 8"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	470.00	63	CORE	PISTON	758.0
*	84003	015	44 50' 50"	- 55 51' 8"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	516.00	64	CORE	PISTON	729.0
*	84003	016	44 49' 43"	- 55 41' 51"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	494.00	64	CORE	PISTON	105.0
*	84003	017	44 49' 29"	- 55 40' 49"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	469.00	64	CORE	PISTON	255.0
*	84003	018	44 47' 15"	- 55 55' 8"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	1078.00	65	CORE	PISTON	128.0
*	84003	019	44 48' 11"	- 56 9' 8"	PIPER,D./DAWSON	PIERRE SLOPE,EA STERN CONTINENT AL MARGIN	480.00	65	CORE	PISTON	100.0

CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE
* 84004	001A	48 43' 0"	- 71 9' 0"	SCHAFER,C./HUDSON	SAGUENAY	TREE RING
* 84004	001B	48 43' 0"	- 71 9' 0"	SCHAFER,C./HUDSON	SAGUENAY	TREE RING
* 84004	002A	48 43' 0"	- 71 9' 0"	SCHAFER,C./HUDSON	SAGUENAY	TREE RING
* 84004	002B	48 43' 0"	- 71 9' 0"	SCHAFER,C./HUDSON	SAGUENAY	TREE RING
* 84004	003A	48 43' 0"	- 71 9' 0"	SCHAFER,C./HUDSON	SAGUENAY	TREE RING
* 84004	003B	48 37' 59"	- 71 6' 29"	SCHAFER,C./HUDSON	SAGUENAY	TREE RING

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
*	84011	002	45 47' 52"	- 58 37' 2"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	118	CORE LEHIGH	127.0
*	84011	003	45 46' 45"	- 58 38' 49"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	118	CORE LEHIGH	196.0
*	84011	004	45 45' 45"	- 58 40' 58"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	118	CORE LEHIGH	195.0
*	84011	005	45 44' 45"	- 58 44' 58"	SCOTT,D./DAWSON	SCOTIA SHELF	260.00	118	CORE LEHIGH	243.0
*	84011	006	45 43' 19"	- 58 45' 57"	SCOTT,D./DAWSON	SCOTIA SHELF	250.00	118	CORE LEHIGH	178.0
*	84011	007	44 50' 34"	- 58 34' 14"	SCOTT,D./DAWSON	SCOTIA SHELF	235.00	120	CORE LEHIGH	174.0
*	84011	008	44 51' 2"	- 58 34' 8"	SCOTT,D./DAWSON	SCOTIA SHELF	223.00	120	CORE LEHIGH	258.0
*	84011	009	44 51' 24"	- 58 34' 7"	SCOTT,D./DAWSON	SCOTIA SHELF	215.00	120	CORE LEHIGH	257.0
*	84011	010	44 51' 55"	- 58 34' 5"	SCOTT,D./DAWSON	SCOTIA SHELF	210.00	120	CORE LEHIGH	249.0
*	84011	011	45 46' 6"	- 58 38' 51"	SCOTT,D./DAWSON	SCOTIA SHELF	275.00	121	CORE PISTON	576.0
*	84011	011	45 46' 6"	- 58 38' 51"	SCOTT,D./DAWSON	SCOTIA SHELF	275.00	121	CORE TWC	133.0
*	84011	012	45 46' 43"	- 58 39' 9"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	121	CORE TWC	129.0
*	84011	012	45 46' 43"	- 58 39' 9"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	121	CORE PISTON	794.0
*	84011	013	45 47' 19"	- 58 40' 45"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	121	CORE PISTON	492.0
*	84011	013	45 47' 19"	- 58 40' 45"	SCOTT,D./DAWSON	SCOTIA SHELF	270.00	121	CORE TWC	117.0
*	84011	014	45 54' 34"	- 58 44' 15"	SCOTT,D./DAWSON	SCOTIA SHELF	165.00	121	CORE PISTON	30.0

CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
* 84015	001	75 46' 48"	- 86 3' 54"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	245.00	242	GRAB	VAN VEEN	
* 84015	001A	76 28' 5"	- 81 0' 55"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	50.00	242	GRAB	VAN VEEN	
* 84015	002	75 52' 11"	- 84 34' 23"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	520.00	243	GRAB	VAN VEEN	
* 84015	003	75 49' 18"	- 86 53' 41"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	306.00	243	GRAB	VAN VEEN	
* 84015	004	75 49' 3"	- 87 36' 34"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	160.00	244	GRAB	VAN VEEN	
* 84015	005	75 53' 22"	- 88 22' 11"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	117.50	245	GRAB	VAN VEEN	
* 84015	006	76 10' 28"	- 83 54' 11"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	255.00	245	GRAB	VAN VEEN	
* 84015	007	76 14' 8"	- 86 37' 55"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	447.00	246	GRAB	VAN VEEN	
* 84015	008	76 13' 5"	- 87 14' 31"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	227.00	246	GRAB	VAN VEEN	
* 84015	009	76 20' 37"	- 89 3' 18"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	138.00	247	GRAB	VAN VEEN	
* 84015	010	76 20' 40"	- 89 3' 10"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	138.00	247	GRAB	VAN VEEN	
* 84015	012	75 49' 37"	- 87 18' 58"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	186.00	278	GRAB	VAN VEEN	
* 84015	013	76 7' 58"	- 83 16' 43"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	757.00	249	GRAB	VAN VEEN	
* 84015	014	75 52' 15"	- 84 12' 44"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	545.00	250	GRAB	VAN VEEN	
* 84015	015	76 17' 1"	- 83 46' 56"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	265.00	251	GRAB	VAN VEEN	
* 84015	016	75 52' 49"	- 82 24' 37"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	564.00	257	GRAB	VAN VEEN	
* 84015	017	75 56' 37"	- 82 34' 32"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	590.00	257	GRAB	VAN VEEN	
* 84015	018	76 1' 18"	- 82 40' 57"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	720.00	257	GRAB	VAN VEEN	
* 84015	019	76 3' 45"	- 82 46' 1"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	765.00	257	GRAB	VAN VEEN	
* 84015	020	76 6' 24"	- 82 51' 33"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	838.00	257	GRAB	VAN VEEN	
* 84015	021	76 9' 6"	- 82 56' 25"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	848.00	257	GRAB	VAN VEEN	
* 84015	022	76 17' 9"	- 83 2' 30"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	615.00	257	GRAB	VAN VEEN	
* 84015	023	76 14' 30"	- 83 4' 29"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	670.00	257	GRAB	VAN VEEN	
* 84015	024	76 17' 11"	- 83 6' 50"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	592.00	257	GRAB	VAN VEEN	
* 84015	025	76 19' 44"	- 83 7' 52"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	598.00	257	GRAB	VAN VEEN	
* 84015	026	76 4' 5"	- 82 11' 39"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	820.00	258	GRAB	VAN VEEN	
* 84015	027	75 55' 10"	- 81 44' 3"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	570.00	259	GRAB	VAN VEEN	
* 84015	028	75 59' 59"	- 81 37' 36"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	705.00	259	CORE	GRAVITY	113.0
* 84015	029	75 59' 24"	- 82 59' 46"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	660.00	259	CORE	GRAVITY	169.0
* 84015	030	75 56' 5"	- 82 49' 39"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	588.00	259	CORE	GRAVITY	112.0
* 84015	031	75 53' 44"	- 82 45' 6"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	555.00	259	CORE	GRAVITY	103.0
* 84015	032	75 51' 15"	- 82 47' 5"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	325.00	259	CORE	GRAVITY	66.0
* 84015	033	75 51' 22"	- 82 44' 10"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	352.00	259	GRAB	VAN VEEN	
* 84015	034	75 48' 23"	- 81 33' 35"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	43.00	260	GRAB	VAN VEEN	

CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
* 84015	035	75 48' 29"	- 81 33' 33"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	133.00	260	GRAB	VAN VEEN
* 84015	036	75 48' 29"	- 81 33' 33"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	127.00	260	GRAB	VAN VEEN
* 84015	037	75 48' 40"	- 81 33' 42"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	193.00	260	GRAB	VAN VEEN
* 84015	038	75 49' 0"	- 81 33' 42"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	238.00	260	GRAB	VAN VEEN
* 84015	039	75 49' 18"	- 81 32' 51"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	272.00	260	GRAB	VAN VEEN
* 84015	040	75 49' 18"	- 81 32' 51"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	272.00	260	GRAB	VAN VEEN
* 84015	042	75 49' 44"	- 81 31' 56"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	311.00	260	GRAB	VAN VEEN
* 84015	043	75 49' 59"	- 81 30' 59"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	399.00	260	GRAB	VAN VEEN
* 84015	044	76 0' 11"	- 82 23' 46"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	763.00	261	CORE	GRAVITY 157.0
* 84015	045	76 3' 47"	- 82 27' 51"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	761.00	261	GRAB	VAN VEEN
* 84015	046	76 27' 49"	- 81 47' 35"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	16.00	264	GRAB	VAN VEEN
* 84015	047	76 27' 49"	- 81 49' 36"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	16.00	264	GRAB	VAN VEEN
* 84015	048	76 27' 37"	- 81 49' 47"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	127.00	264	GRAB	VAN VEEN
* 84015	049	76 27' 34"	- 81 49' 47"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	125.00	264	GRAB	VAN VEEN
* 84015	050	76 23' 57"	- 82 9' 42"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	32.00	265	GRAB	VAN VEEN
* 84015	051	76 23' 47"	- 82 8' 44"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	73.00	265	GRAB	VAN VEEN
* 84015	052	76 23' 26"	- 82 8' 2"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	171.00	265	GRAB	VAN VEEN
* 84015	053	76 23' 10"	- 82 8' 48"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	275.00	265	GRAB	VAN VEEN
* 84015	054	76 2' 21"	- 82 5' 28"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	322.00	265	GRAB	VAN VEEN
* 84015	055	76 24' 11"	- 82 1' 59"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	131.00	265	GRAB	VAN VEEN
* 84015	056	76 23' 54"	- 82 1' 23"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	136.00	265	GRAB	VAN VEEN
* 84015	057	76 24' 18"	- 81 57' 24"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	327.00	265	GRAB	VAN VEEN
* 84015	058	76 24' 53"	- 81 55' 45"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	337.00	265	GRAB	VAN VEEN
* 84015	059	76 24' 20"	- 81 54' 47"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	387.00	265	GRAB	VAN VEEN
* 84015	060	76 23' 7"	- 81 54' 58"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	373.00	265	GRAB	VAN VEEN
* 84015	061	76 21' 58"	- 83 5' 45"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	578.00	266	GRAB	VAN VEEN
* 84015	062	76 21' 57"	- 83 5' 17"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	576.00	266	CORE	GRAVITY 164.0
* 84015	063	76 19' 10"	- 83 11' 44"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	524.00	266	CORE	GRAVITY 105.0
* 84015	064	76 15' 49"	- 83 10' 23"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	612.00	266	CORE	GRAVITY 63.0
* 84015	065	76 11' 1"	- 83 8' 7"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	657.00	266	CORE	GRAVITY 41.0
* 84015	066	76 7' 5"	- 83 5' 30"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	822.00	266	CORE	GRAVITY 143.0
* 84015	067	76 2' 46"	- 82 59' 55"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	677.00	266	CORE	GRAVITY 164.0
* 84015	068	76 19' 56"	- 84 48' 26"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	149.00	266	CORE	GRAVITY 61.0
* 84015	069	76 20' 3"	- 83 48' 26"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	140.00	266	GRAB	VAN VEEN
* 84015	070	76 20' 5"	- 83 48' 8"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	132.00	266	GRAB	VAN VEEN
* 84015	071	75 39' 50"	- 79 39' 55"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	538.00	267	GRAB	VAN VEEN
* 84015	072	75 40' 2"	- 79 35' 57"	MACLEAN,B./BAFFIN	JONES SOUND, N.W.T.	542.00	267	CORE	GRAVITY 177.0

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	84022	001C	48 25' 9"	- 70 51' 25"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	66.00	271	CORE	PISTON	98.0
*	84022	002C	48 24' 42"	- 70 50' 16"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	92.00	271	CORE	PISTON	117.0
*	84022	003C	48 24' 41"	- 70 48' 47"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	112.00	271	CORE	PISTON	96.0
*	84022	004C	48 24' 56"	- 70 46' 57"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	124.00	271	CORE	PISTON	119.0
*	84022	005C	48 24' 11"	- 70 44' 50"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	145.00	271	CORE	PISTON	93.0
*	84022	006C	48 22' 39"	- 70 43' 54"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	196.00	271	CORE	PISTON	40.0
*	84022	007C	48 21' 55"	- 70 44' 46"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	180.00	271	CORE	PISTON	64.0
*	84022	008A	48 21' 11"	- 70 42' 30"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	198.00	272	CORE	PISTON	157.0
*	84022	008C	48 21' 46"	- 70 42' 8"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	225.00	272	CORE	PISTON	59.0
*	84022	008D	48 22' 1"	- 70 42' 8"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	198.00	272	CORE	PISTON	89.0
*	84022	008E	48 22' 18"	- 70 42' 8"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	150.00	272	CORE	PISTON	89.0

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE		LENGTH
*	84022	009C	48 21' 51"	- 70 36' 53"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	244.00	272	CORE	PISTON	110.00
*	84022	010C	48 21' 42"	- 70 30' 4"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	265.00	272	CORE	PISTON	122.00
*	84022	011C	48 21' 19"	- 70 22' 32"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	270.00	272	CORE	PISTON	108.00
*	84022	012A	48 18' 12"	- 70 16' 30"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	260.00	272	CORE	PISTON	106.00
*	84022	012C	48 18' 33"	- 70 16' 19"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	270.00	272	CORE	PISTON	103.00
*	84022	012D	48 18' 42"	- 70 16' 13"	840020	SCHAFER,C./ASPREY,K./LOUIS M. LAUZIER	SAGUENAY	265.00	272	CORE	PISTON	90.00

CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE		LENGTH
* 84024	001	46 56' 26"	- 53 35' 53"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	65.00	171	CORE	TWC	132.0
* 84024	001	46 56' 26"	- 53 35' 53"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	65.00	171	CORE	PISTON	758.0
* 84024	002	46 56' 9"	- 53 36' 9"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	73.00	171	CORE	PISTON	679.0
* 84024	002	46 56' 9"	- 53 36' 9"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	73.00	171	CORE	TWC	104.0
* 84024	003	46 39' 25"	- 53 46' 17"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	53.00	171	CORE	PISTON	110.0
* 84024	004	46 39' 31"	- 53 46' 11"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	53.00	171	CORE	PISTON	119.0
* 84024	005	46 27' 45"	- 53 51' 26"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	75.00	172	CORE	PISTON	20.0
* 84024	006	46 27' 37"	- 53 51' 27"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	76.00	172	CORE	PISTON	1.0
* 84024	008	46 17' 3"	- 53 26' 16"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	130.00	172	GRAB	VAN VEEN	
* 84024	009	46 18' 9"	- 53 25' 59"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	125.00	172	GRAB	IKU	
* 84024	010	46 19' 45"	- 53 26' 5"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	117.00	172	GRAB	VAN VEEN	
* 84024	011	46 20' 35"	- 53 25' 41"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	113.00	172	GRAB	VAN VEEN	
* 84024	012	46 21' 6"	- 53 25' 37"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	108.00	172	GRAB	VAN VEEN	
* 84024	013	46 22' 16"	- 53 25' 11"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	95.00	172	GRAB	IKU	
* 84024	014	46 23' 13"	- 53 25' 8"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	88.00	172	GRAB	VAN VEEN	
* 84024	015	46 24' 13"	- 53 25' 23"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	79.00	172	GRAB	VAN VEEN	
* 84024	016	46 24' 55"	- 53 25' 1"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	68.00	172	GRAB	IKU	

CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE		LENGTH
* 84024	017	46 25' 31"	- 53 24' 58"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	71.00	172	GRAB	VAN VEEN	
* 84024	018	46 34' 36"	- 52 45' 59"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	185.00	173	CORE	PISTON	45.0
* 84024	019	46 34' 49"	- 52 44' 56"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	173.00	173	CORE	TWC	150.0
* 84024	019	46 34' 49"	- 52 44' 56"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	173.00	173	CORE	PISTON	120.0
* 84024	020	46 26' 49"	- 52 22' 23"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	120.00	173	GRAB	VAN VEEN	
* 84024	021	46 26' 15"	- 52 20' 56"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	100.00	173	GRAB	VAN VEEN	
* 84024	022	46 25' 28"	- 52 19' 47"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	82.00	173	GRAB	VAN VEEN	
* 84024	023	46 24' 39"	- 52 16' 52"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	75.00	173	GRAB	VAN VEEN	
* 84024	024	46 24' 29"	- 52 15' 26"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	66.00	173	GRAB	VAN VEEN	
* 84024	025	46 23' 58"	- 52 14' 46"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	64.00	173	GRAB	VAN VEEN	
* 84024	026	46 23' 23"	- 52 13' 13"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	72.00	173	GRAB	SHIPECK	
* 84024	028	47 2' 55"	- 52 53' 5"	LEWIS,M./HUDSON	AVALON CHANNEL, ST. MARYS HARBOUR	36.00	174	GRAB	SHIPECK	
* 84024	029	47 6' 41"	- 52 52' 53"	LEWIS,M./HUDSON	AVALON CHANNEL, ST MARYS HARBOUR	36.00	174	CORE	PISTON	5.0

CRUISE	GEOCHEM.	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
* 84025	8402112	45 11' 0"	- 66 6' 58"	SMITH,J./DAWSON	BAY OF FUNDY	30.00	194	CORE LEHIGH	50.0
* 84025	8402142	44 55' 38"	- 66 32' 30"	SMITH,J./DAWSON	BAY OF FUNDY	77.00	194	CORE LEHIGH	93.0
* 84025	8402145	44 55' 37"	- 66 39' 47"	SMITH,J./DAWSON	BAY OF FUNDY	99.00	194	CORE LEHIGH	194.0
* 84025	8402148	44 59' 40"	- 66 38' 17"	SMITH,J./DAWSON	BAY OF FUNDY	66.00	194	CORE LEHIGH	46.0
* 84025	8402154	45 4' 5"	- 66 34' 34"	SMITH,J./DAWSON	BAY OF FUNDY	30.00	194	CORE LEHIGH	130.0
* 84025	8402167	44 57' 27"	- 66 51' 49"	SMITH,J./DAWSON	BAY OF FUNDY	109.00	194	CORE LEHIGH	46.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE
*	84029	001	43 25' 18"	- 61 40' 29"	FADER,G./HUDSON	SCOTIA SHELF	70.00	204	CAMERA	
*	84029	001	43 25' 6"	- 61 40' 35"	FADER,G./HUDSON	SCOTIA SHELF	70.00	204	GRAB	VAN VEEN
*	84029	002	43 25' 11"	- 61 41' 28"	FADER,G./HUDSON	SCOTIA SHELF	70.00	204	GRAB	VAN VEEN
*	84029	002	43 25' 11"	- 61 41' 28"	FADER,G./HUDSON	SCOTIA SHELF	70.00	204	CAMERA	
*	84029	003	43 25' 3"	- 61 42' 0"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	GRAB	VAN VEEN
*	84029	003	43 25' 13"	- 61 42' 1"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	CAMERA	
*	84029	004	43 25' 2"	- 61 42' 32"	FADER,G./HUDSON	SCOTIA SHELF	72.00	204	GRAB	VAN VEEN
*	84029	004	43 25' 9"	- 61 42' 32"	FADER,G./HUDSON	SCOTIA SHELF	72.00	204	CAMERA	
*	84029	005	43 25' 14"	- 61 44' 26"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	CAMERA	
*	84029	005	43 25' 14"	- 61 44' 26"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	GRAB	VAN VEEN
*	84029	006	43 25' 26"	- 61 45' 2"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	CAMERA	
*	84029	006	43 25' 28"	- 61 45' 3"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	GRAB	VAN VEEN
*	84029	007	43 25' 42"	- 61 45' 55"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	GRAB	VAN VEEN
	84029	007	43 25' 42"	- 61 45' 55"	FADER,G./HUDSON	SCOTIA SHELF	71.00	204	CAMERA	
	84029	008	43 25' 36"	- 61 45' 53"	FADER,G./HUDSON	SCOTIA SHELF	73.00	204	GRAB	VAN VEEN
*	84029	008	43 25' 34"	- 61 45' 53"	FADER,G./HUDSON	SCOTIA SHELF	73.00	204	CAMERA	--
*	84029	010	43 35' 23"	- 60 47' 2"	FADER,G./HUDSON	SCOTIA SHELF	64.00	206	GRAB	VAN VEEN
*	84029	010	43 35' 23"	- 60 47' 2"	FADER,G./HUDSON	SCOTIA SHELF	64.00	206	CAMERA	
*	84029	011	43 35' 38"	- 60 46' 35"	FADER,G./HUDSON	SCOTIA SHELF	65.00	206	DREDGE	EPIBENTHIC
*	84029	012	43 35' 29"	- 60 47' 4"	FADER,G./HUDSON	SCOTIA SHELF	63.00	206	GRAB	VAN VEEN
*	84029	012	43 35' 29"	- 60 47' 4"	FADER,G./HUDSON	SCOTIA SHELF	63.00	206	CAMERA	

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
*	84030	001	53 19' 11"	- 45 18' 32"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3782.00	215	CORE TWC	43.0
*	84030	001	53 19' 11"	- 45 18' 32"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3782.00	215	CORE PISTON	858.0
*	84030	002	53 19' 25"	- 45 16' 13"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3780.00	217	CORE TWC	2.0
*	84030	002	53 19' 25"	- 45 16' 13"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3780.00	217	CORE PISTON	893.0
*	84030	003	53 19' 44"	- 45 15' 50"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3764.00	218	CORE TWC	189.0
*	84030	003	53 19' 44"	- 45 15' 50"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3764.00	218	CORE PISTON	1047.0
*	84030	004	58 4' 4"	- 48 23' 38"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3323.00	223	CORE PISTON	525.0
*	84030	004	58 4' 4"	- 48 23' 38"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3323.00	223	CORE TWC	197.0
*	84030	005	58 4' 16"	- 48 23' 35"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3325.00	223	CORE TWC	100.0
*	84030	005	58 4' 16"	- 48 23' 35"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3325.00	223	CORE PISTON	1120.0
*	84030	006	58 4' 36"	- 48 54' 41"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3430.00	226	CORE PISTON	985.0
*	84030	006	58 4' 36"	- 48 54' 41"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3430.00	226	CORE TWC	186.0
*	84030	007	57 39' 3"	- 50 12' 36"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3511.00	227	CORE PISTON	855.0
*	84030	007	57 39' 3"	- 50 12' 36"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3511.00	227	CORE TWC	153.0
*	84030	008	57 36' 29"	- 50 24' 46"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3526.00	227	CORE TWC	146.0

CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
* 84030	008	57 36' 29"	- 50 24' 46"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3526.00	227	CORE PISTON	834.0
* 84030	009	57 34' 32"	- 50 35' 39"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3522.00	227	CORE TWC	79.0
* 84030	009	57 34' 32"	- 50 35' 39"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3522.00	227	CORE PISTON	646.0
* 84030	010	57 33' 40"	- 50 41' 44"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3530.00	227	CORE TWC	56.0
* 84030	010	57 33' 40"	- 50 41' 44"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3530.00	227	CORE PISTON	303.0
* 84030	011	57 39' 38"	- 51 50' 58"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3437.00	228	CORE PISTON	550.0
* 84030	011	57 39' 38"	- 51 50' 58"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3437.00	228	CORE TWC	158.0
* 84030	012	57 32' 26"	- 51 53' 32"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3452.00	228	CORE TWC	111.0
* 84030	012	57 32' 26"	- 51 53' 32"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3452.00	228	CORE PISTON	762.0
* 84030	014	57 43' 32"	- 51 58' 5"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3435.00	228	CORE PISTON	818.0
* 84030	014	57 43' 32"	- 51 58' 5"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3435.00	228	CORE TWC	2.0
* 84030	015	57 40' 40"	- 52 8' 13"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3438.00	228	CORE PISTON	710.0
* 84030	015	57 40' 40"	- 52 8' 13"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3438.00	228	CORE TWC	112.0
* 84030	016	58 14' 28"	- 50 47' 3"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3438.00	229	CORE TWC	60.0
* 84030	016	58 14' 28"	- 50 47' 3"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3438.00	229	CORE PISTON	322.0
* 84030	017	58 11' 29"	- 50 53' 43"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3460.00	229	CORE TWC	86.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE		LENGTH
*	84030	017	58 11' 29"	- 50 53' 43"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3460.00	229	CORE	PISTON	206.0
*	84030	018	58 8' 21"	- 50 47' 15"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3501.00	229	CORE	LEHIGH	50.0
*	84030	019	58 22' 37"	- 54 0' 29"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3352.00	230	CORE	PISTON	837.0
*	84030	019	58 22' 37"	- 54 0' 29"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3352.00	230	CORE	TWC	146.0
*	84030	020	58 23' 37"	- 54 0' 7"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3354.00	230	CORE	LEHIGH	166.0
*	84030	021	58 22' 2"	- 57 30' 24"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	2853.00	231	CORE	PISTON	806.0
*	84030	021	58 22' 2"	- 57 30' 24"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	2853.00	231	CORE	TWC	141.0
*	84030	022	58 30' 9"	- 57 56' 15"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	2666.00	231	CORE	PISTON	547.0
*	84030	022	58 30' 9"	- 57 56' 15"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	2666.00	231	CORE	TWC	142.0
*	84030	023	58 30' 25"	- 57 56' 32"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	2633.00	231	CORE	PISTON	696.0
*	84030	023	58 30' 25"	- 57 56' 32"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	2633.00	231	CORE	TWC	152.0
*	84030	024	58 29' 37"	- 56 20' 3"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3032.00	233	CORE	TWC	173.0
*	84030	024	58 29' 37"	- 56 20' 3"	SRIVASTAVA,S./ HUDSON	LABRADOR SEA	3032.00	233	CORE	PISTON	20.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE		LENGTH
*	84035PHASE1	001	48 33' 18"	- 46 42' 17"	SCHAFER,C./HUDSON	FLEMISH PASS,SACVILLE SPUR,HAMILTON BANK,LABRADOR SLOPE	2508.00	245	CORE	LEHIGH	201.0
*	84035PHASE1	002	48 17' 59"	- 46 40' 23"	SCHAFER,C./HUDSON	FLEMISH PASS,SACVILLE SPUR,HAMILTON BANK,LABRADOR SLOPE	1205.00	246	CORE	LEHIGH	201.0
*	84035PHASE1	003	48 15' 47"	- 46 39' 29"	SCHAFER,C./HUDSON	FLEMISH PASS,SACVILLE SPUR,HAMILTON BANK,LABRADOR SLOPE	954.00	246	CORE	LEHIGH	206.0
*	84035PHASE1	004	55 22' 11"	- 53 57' 23"	SCHAFER,C./HUDSON	FLEMISH PASS,SACVILLE SPUR,HAMILTON BANK,LABRADOR SLOPE	2391.00	252	GRAB	VAN VEEN	
*	84035PHASE1	005	55 25' 12"	- 53 58' 12"	SCHAFER,C./HUDSON	FLEMISH PASS,SACVILLE SPUR,HAMILTON BANK,LABRADOR SLOPE	2508.00	252	GRAB	VAN VEEN	
*	84035PHASE1	006	55 23' 35"	- 53 58' 53"	SCHAFER,C./HUDSON	FLEMISH PASS,SACVILLE SPUR,HAMILTON BANK,LABRADOR SLOPE	2452.00	252	CORE	LEHIGH	60.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
*	84035PHASE2	008	61 0' 11"	- 63 49' 53"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	580.00	261	CORE PISTON	810.0
*	84035PHASE2	010	61 54' 29"	- 63 27' 59"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	522.00	261	CORE GRAVITY	0.0
*	84035PHASE2	011	61 54' 29"	- 63 27' 59"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	402.00	262	CORE PISTON	380.0
*	84035PHASE2	014	60 59' 10"	- 62 27' 19"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	605.00	266	CORE PISTON	530.0
*	84035PHASE2	015	60 59' 56"	- 62 53' 38"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	640.00	266	CORE PISTON	763.0
*	84035PHASE2	016	60 59' 48"	- 63 11' 21"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	603.00	266	CORE PISTON	523.0
*	84035PHASE2	017	61 2' 17"	- 61 15' 0"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	580.00	266	CORE PISTON	19.0
*	84035PHASE2	018	55 53' 53"	- 58 40' 23"	MACLEAN,B./HUDSON	LABRADOR-S.E. BAFFIN SHELF AND SLOPE	570.00	270	CORE PISTON	1110.0

	CRUISE	STATION	LATITUDE	LONGITUDE	PROJECT	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE	LENGTH
*	84038	001	53 38' 24"	- 59 43' 12"	840013	HARDY,I./HUDSON	LAKE MELVILLE	60.00	271	CORE PISTON	1162.0
*	84038	002	53 42' 36"	- 59 34' 37"	840013	HARDY,I./HUDSON	LAKE MELVILLE	120.00	271	CORE PISTON	1168.0

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE TYPE		LENGTH
*	84040	001	42 21' 11"	- 55 4' 5"	PIPER,D./HUDSON	SOUTH OF LAUREN TIAN FAN	4889.00	285	CORE	TWC	47.0
*	84040	001	42 21' 11"	- 55 4' 5"	PIPER,D./HUDSON	SOUTH OF LAUREN TIAN FAN	4889.00	285	CORE	PISTON	857.0
*	84040	002	42 18' 24"	- 55 1' 11"	PIPER,D./HUDSON	SOUTH OF LAUREN TIAN FAN	4979.00	285	CORE	PISTON	130.0
*	84040	003	42 19' 32"	- 55 0' 52"	PIPER,D./HUDSON	SOUTH OF LAUREN TIAN FAN	4501.00	285	CORE	PISTON	552.0
*	84040	003	42 19' 32"	- 55 0' 52"	PIPER,D./HUDSON	SOUTH OF LAUREN TIAN FAN	4501.00	285	CORE	TWC	165.0
*	84046	002	23 58' 30"	- 64 30' 53"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5660.00	317	CORE	PISTON	159.0
*	84046	008	22 45' 57"	- 63 29' 7"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	319	CORE	BOX	0.0
*	84046	009	22 46' 3"	- 63 28' 54"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5846.00	320	CORE	PISTON	872.0
*	84046	010	22 47' 23"	- 63 26' 30"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	320	CORE	BOX	0.0
*	84046	012	22 46' 47"	- 63 26' 53"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	321	CORE	BOX	0.0
*	84046	014A	22 49' 36"	- 63 23' 5"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	322	CORE	TROIKA	242.0
*	84046	014B	22 49' 36"	- 63 23' 5"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	322	CORE	TROIKA	154.0
*	84046	014C	22 49' 36"	- 63 23' 5"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	322	CORE	TROIKA	148.0
*	84046	015	22 49' 57"	- 63 23' 30"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5843.00	322	CORE	PISTON	907.0
*	84046	016	22 43' 48"	- 63 27' 29"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5843.00	323	DREDGE	EPIBEN THIC	
*	84046	018	22 42' 29"	- 63 23' 5"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5843.00	324	CORE	PISTON	1131.0
*	84046	019	22 44' 53"	- 63 27' 24"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	326	CAMERA		
*	84046	020	22 48' 20"	- 63 22' 22"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	326	CORE	BOX	0.0
*	84046	021	22 53' 41"	- 63 26' 53"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	326	CORE	BOX	0.0
*	84046	022	22 52' 44"	- 63 27' 28"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5848.00	326	CORE	PISTON	1094.0
*	84046	023	22 53' 41"	- 63 27' 42"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5838.00	327	CORE	PISTON	1333.0
*	84046	024	22 51' 18"	- 63 26' 24"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5843.00	327	DREDGE	EPIBEN THIC	
*	84046	025	22 53' 48"	- 63 27' 36"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5843.00	328	CORE	PISTON	1291.0
*	84046	026	22 54' 11"	- 63 27' 42"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	328	CORE	BOX	45.0
*	84046	027A	22 53' 12"	- 63 28' 49"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	329	CORE	TROIKA	70.0
*	84046	027B	22 53' 12"	- 63 28' 49"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	329	CORE	TROIKA	126.0
*	84046	029	22 50' 54"	- 63 26' 55"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5847.00	330	DREDGE	EPIBEN THIC	
*	84046	030	22 53' 53"	- 63 28' 48"	BUCKLEY,D./HUDSON	NARES ABYSSAL	5843.00	330	CORE	PISTON	785.0

PROJECT	LATITUDE	LONGITUDE	GEOCHEM. NUMBER	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	SAMPLE	TYPE	LENGTH
* 800020	48 18' 25"	- 70 16' 22"		SCHAFER,C.	SAGUENAY	270.00	CORE	PISTON	103.0
* 800020	48 18' 53"	- 70 16' 8"		SCHAFER,C.	SAGUENAY	255.00	CORE	PISTON	93.0
* 820046	46 25' 15"	- 63 5' 56"	8406001	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406002	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406003	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406004	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406005	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406006	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406007	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406008	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406009	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406010	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406011	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406012	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406013	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406014	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406015	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		
* 820046	46 25' 15"	- 63 5' 56"	8406016	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND		BEACH		

PROJECT	LATITUDE	LONGITUDE	GEOCHEM. NUMBER	SCIENTIST-SHIP	GEOGRAPHIC AREA	SAMPLE
* 820046	46 25' 15"	- 63 5' 56"	8406017	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406018	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406019	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406020	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406021	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406022	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406023	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406024	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406025	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406026	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406027	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406028	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406029	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406030	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406031	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406032	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406033	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH
* 820046	46 25' 15"	- 63 5' 56"	8406034	FORBES,D./FROBEL,D.	STANHOPE,PRINCE EDWARD ISLAND	BEACH

PROJECT	LATITUDE	LONGITUDE	GEOCHEM. NUMBER	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE
* 830007	69 26' 57"	-133 2' 17"	8407011	FORBES,D.	CAPE DALHOUSIE, BEAUFORT SEA		207	BEACH
* 830007	69 26' 57"	-133 2' 17"	8407015	FORBES,D.	TUKTOYAKTUK,BEAUFORT SEA		207	BEACH
* 830007	69 57' 24"	-131 24' 55"	8407030	FORBES,D.	ATKINSON POINT, BEAUFORT SEA		211	BEACH
* 830007	69 16' 36"	-138 26' 30"	8408001	FORBES,D.	KAY POINT SPIT, BEAUFORT SEA	3.50	215	GRAB
* 830007	69 17' 39"	-138 24' 42"	8408004	FORBES,D.	BEAUFORT SEA			BEACH
* 830007	69 17' 39"	-138 24' 42"	8408005	FORBES,D.	KAY POINT SPIT, BEAUFORT SEA	5.80	215	GRAB
* 830007	69 17' 39"	-138 24' 42"	8408006	FORBES,D.	KAY POINT SPIT, BEAUFORT SEA	6.10	215	GRAB
* 830007	69 17' 39"	-138 24' 42"	8408007	FORBES,D.	KAY POINT SPIT	2.00	215	GRAB
* 830007	69 16' 36"	-138 2' 39"	8408008	FORBES,D.	KAY POINT SPIT, BEAUFORT SEA		216	BEACH
* 830007	69 16' 36"	-138 26' 30"	8408009	FORBES,D.	KAY POINT SPIT, BEAUFORT SEA		216	BEACH
* 830007	69 16' 36"	-138 26' 30"	8408010	FORBES,D.	KAY POINT SPIT, BEAUFORT SEA		216	BEACH
830007	69 20' 10"	-138 42' 36"	8408012	FORBES,D.	STOKES POINT,BEAUFORT SEA	2.02	217	GRAB
* 830007	69 20' 10"	-138 42' 36"	8408013	FORBES,D.	STOKES POINT,BEAUFORT SEA		217	BEACH
* 830007	69 20' 10"	-138 42' 36"	8408015	FORBES,D.	STOKES POINT,BEAUFORT SEA		217	BEACH
* 830007	69 17' 23"	-138 23' 42"	8408018	FORBES,D.	KAY POINT,BOAT LANDING BEACH,BEAUFORT SEA		218	BEACH