GSC OPEN FILE REPORT

ATLANTIC GEOSCIENCE CENTRE

AN INDEX TO SAMPLES AND RECORDS COLLECTED BY THE ATLANTIC GEOSCIENCE CENTRE FOR 1987

GSC Project 303067

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GSC Open File # 1778

***Geological Survey of Canada Contribution No. ***

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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 dredge, grab, cores and other marine geological samples as well as the preservation of operating and historical recordings 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 in onshore Eastern Canada by AGC staff.

One important mandate of the Geological Survey of Canada is to protect all such fundamental resources for future geoscientific research. To meet this commitment, Data Section of Program Support Subdivision at AGC maintains all soft sediment marine samples within the confines of a 5000 square foot core repository located at the Bedford Institute of Oceanography. All collected tapes and paper records are also stored within the repository in convenient rolled racking.

In 1987, some 25 sampling cruises and 5 field programs collected samples from more than 550 stations with an estimated recovery of more than 2000 meters of soft sediments and drillcores, together with some 50,000 line kilometers of seismic reflection, Huntec, Sidescan sonar and bathymetric underway records. A Sample Management System on the BIO Cyber mainframe using System 2000 DBMS, provides direct access to the storage location, procurement sampling history and processing for the samples obtained in any given field season. Plots of the samples obtained in 1987 are included at varying scales. Record information is managed on micro-computer based software that provides easy access for day-to-day enquiries, inventory file/record control and preparation for preservation microfilming. The majority of underway geophysical data is presently being prepared for conversion to continuous 35 mm microfilm and will be released as Geological Survey of Canada Open File Reports during 1988 and 1989. Master microfilm will be curated for each AGC cruise at the National Archives, Dartmouth, Nova Scotia with duplicates available for viewing at the Atlantic Geoscience Centre.

Introduction

Data Section is a part of the Program Support Subdivision (PSS) of the Atlantic Geoscience Centre. This group provides the safe archiving and cataloging of the Atlantic Geoscience Centre's Data Collections and holdings acquired during any given field season since 1963. This report provides an index to those samples collected onboard oceanographic vessels, from onshore field parties and from joint sampling programs conducted by or for AGC staff in 1987. The initiation and implementation of a Sample Management Data Base, acronym SID, during 1984 as well as micro-computer based software in 1986, has permitted all of incoming samples and records from the field to be documented for publication/distribution within a short period of time.

The 1987 cruise station information has also been submitted to the National Geophysical Data Centre (NGDC), in Boulder, Colorado, U.S.A., for inclusion with the Worldwide Marine Geological Data Base. This is an interactive inventory information data base on marine sediment and hard rock samples collected from the ocean floor worldwide.

Data Sources

The information gathered together for this index has been many derived from cruise sample sheets and digital information managed on micro-computer based software (mainly dBase III Plus), that is submitted to Data Section upon termination of any given AGC field program or cruise. This information is checked and verified upon receipt of the individual samples and corresponding acoustic records/tapes for proper curation and archiving by Data Section staff onshore at BIO and includes: location of sample, collector and vessel, geographic area, longitude and latitude coordinates, GSC project number, water depth (m), total length (cm) and Julien day/time of collection. Record information also includes Julian day together with start and end time of collection, line number, tape number and recorder type. The purpose of each individual field program has been included for

convenience in Appendix I. Sample data has been compiled on a Sample Management System on the BIO Cyber 840 mainframe using System 2000. The introduction of a new data base management system dBase III implemented in 1986 has provided AGC staff with a means of direct reporting of sample procurement, sampling history/processing and storage while in the field. A similar system, the Shipboard dBase Inventory, is utilized in the downloading of the record/tape/log/navigation data for all analog tapes, catalogues/indices and records obtained during any field reconnaissance program. Appendix II outlines the data that has been recorded for each sample in the Sample Information Data Base (SID). Sample entries for the 1987 field season have been ordered by cruise number, while field programs are in alphanumeric order. A moratorium for data access of two years is recognized by AGC Curation from the date of program termination for those programs providing samples and/or records collected by the private sector, but curated at the Atlantic Geoscience Centre. This also applies to direct access to acquired AGC data. After two years, most record samples can be accessed without permission of the original collector. The record/log/navigation dBase format is similar to other AGC curation databases. Appendix III outlines the data that has been recorded for all acquired 1987 record holdings. The data is ordered by cruise number, Scientific Officer, geographic area, year, data type and contains tape number, day/time, type, fix number, line number, inventory box number as well as a note field.

All curation data is routinely updated from the time of initial data entry. In general, all processing and subsampling of curated sediments must be approved prior to accessing the sample material. Record data is similarly updated for inventory control. These systems have provided the necessary means for promoting easy access and enhancement of the data acquired at the Centre on a routine basis.

Sample Data Requests

Requests for AGC sample or record 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 the samples and record locations within specified boundaries can also be directed to the Data Management Section (PSS), Atlantic Geoscience Centre, at the above address or phone (902) 426-3410.

APPENDIX I

Cruise Number	Vessel	Chief Scientist	Dates	Cruise Purpose
87003	Hudson	K.S. Manchester PSS, AGC	April 2, 1987 - April 16, 1987	To test newly developed Long Coring Facility on Scotian Shelf and slope in water depths ranging from 200-3300 metres.
87006 Phase II	Navicula	A. Fraser	Nov. 5, 1987 - Nov. 6, 1987	Sydney Harbour
87008	Hudson	D.J.W. Piper EMG, AGC	April 16, 1987 - May 6, 1987	Stratigraphic and geotechnical studies of the eastern Canadian Continental Margin
87014	Hudson	G.D. Fader EMG, AGC	May 7, 1987 - May 14, 1987	Bedrock Study of the Eastern Grand Banks
87015	Dawson	J. Smith Chemistry Div. Physical and Chemical Sciences Branch BIO	May 19, 1987 - May 25, 1987	4th Operational Phase of the Point Lepreau Environmental Monitoring Program (PLEMP); gathered geophysical and chemical data from the Marine environment in the vicinity of the Point Lepreau Nuclear Generating Station.
87019	Hudson	C.E. Keen RR, AGC	May 16, 1987 - June 8, 1987	Continuing studies of the sedimentary basins and continental margins around the Grand Banks of Newfoundland and to conduct seismic refraction experiments to complement previous reflection studies. The detailed, high-quality physical, acoustic and stratigraphic data from a well-surveyed area provided a unique opportunity to examine the inter-relationships between physical and acoustic properties as well as the geologic processes responsible for their high-resolution seismic records.
87021A B	Dawson Dawson	B. Long Rimouski B. Long Rimouski	June 10, 1987 - June 17, 1987 Nov. 22, 1987 - Nov. 27, 1987	Geophysical studies of NATASHQUAN deltaic fan and MINGAN area; bathymetric profiles and sampling and coring in the nearshore.
87023	Dawson	J.P.M. Syvitski EMG, AGC	June 18, 1987 - June 27, 1987	Seismic survey and coring cruise in the Gulf of St. Lawrence Estuary, Sept Isles and Ile d'Anticosti to Baie des Chaleurs

APPENDIX I (Continued)

Cruise Number	Vessel	Chief Scientist	Dates	Cruise Purpose
87025	Hudson	R. Hesse McGill	July 16, 1987 - Aug. 3, 1987	NAMOC - Cores and high resolution seismic profiles to study nature of recent sediment deposition and erosion along Mid-Ocean channel.
87027	Baffin	D. Praeg EMG, AGC	Aug. 29, 1987 - Sept. 22, 1987	Seismic survey in collaboration with the Canadian Hydrographic Service in Norwegian Bay, high Arctic
87028	Hudson	H. Josenhans EMG, AGC	Aug. 3, 1987 - Aug. 21, 1987	To obtain seismic and sample data of the bedrock and surficial deposits of Hudson Bay in order to determine the vertical and lateral distribution of the surficial and subsurface geological units. Bottom photographs and high resolution data was also collected.
87031	Hudson	B.V. Sanford A.G. Grant GSC, AGC	Aug, 23, 1987 - Aug. 26, 1987	Seismic surveying in Hudson Bay: airgun, Huntec DTS and sidescan sonar.
87033	Hudson	G. Vilks EMG, AGC	Sept. 18, 1987 - Oct. 10, 1987	To establish the sedimentary history on the Baffin Island shelf and to extend the Quaternary stratigraphy in other areas.
87039	Baffin	B. Swim, CHS R. Sparkes, AGC	Oct. 30, 1987 - Nov. 20, 1987	To establish control for GLORIA imagery and delimit maritime boundaries on Southeast Scotian Shelf, slope; and Southern Georges Bank
87042	Dawson	D.L. Forbes EMG, AGC	Nov. 2, 1987 - Nov. 10, 1987	Acquisition of cores, grabs to provide ground truth for the interpretation of acoustic stratigraphy as well as valuable data on offshore aggregate and placer resources in Sable Island area and Eastern shore, Nova Scotia.
87044	Dawson	K. Howells NSRF	Nov. 17, 1987 - Nov. 21, 1987	To study geological bedrock structures and surficial sediments and glacial deposits in Chedabucto and St. George's bays as well as north and south of Canso Strait.
87047	Navicula	R. Miller EMG, AGC	June 13, 1987 - June 23, 1987	Inner shelf geophysical sampling reconnaissance survey.

APPENDIX I (Continued)

Cruise Number	Vessel	Chief Scientist	Dates	Cruise Purpose
87100	(ice platform)	G. Sonnichsen EMG, AGC	June 29, 1987 - Aug. 20, 1987	A marine seismic reflection and geological sampling survey in the Channels of the Lougheed Island/King Christian Island region. This year's program was aimed at determining the geological and geotechnical properties and regional character of unconsolidated sediments and identification of these constraints for future engineering development in the inter-island channels.
87200	Ice Island (platform)	P. Mudie EMG, AGC	April 3, 1987 - May 1987	High Arctic, east Axel Heiberg Island, N.W.T.
87400	Balder Challenger	K. Moran EMG, AGC	Aug. 25, 1987 - Sept. 6, 1987	Grand Banks Borehole Program
87401	Balder Challenger	K. Moran EMG, AGC	Sept. 11, 1987 - Sept. 24, 1987	Northumberland Strait Borehole Program - groundtruth acoustic stratigraphy, late Pleistocene sediments.
87-1	Balder Challenger	C. Amos EMG, AGC	May 1987	Panuke, Como sites, Scotian Shelf
87 Ellice Island		P. Hill K. Jenner EMG, AGC	July 30, 1987 - Aug. 13, 1987	Masters Program Dalhousie Student
87	Farnella	R. Sparkes EMG, AGC	April 1, 1987 - April 9, 1987*	Joint GSC/USGS cruise, southeast Scotian Shelf, Georges Bank using GLORIA.
87	USGS R/V Karluk	P. Hill EMG, AGC	20 Aug., 1987 - 16 Sept. 1987	To obtain high resolution seismic profiles <10 m off Tuktoyaktak Peninsula.
87	Nahidik	P. Hill EMG, AGC	Sept. 11, 1987 - Sept. 18, 1987	To obtain high quality, high resolution seismic reflection profiles, vibrocores, piston cores in coastal zones of MacKenzie Bay and vicinity of eastern Richards Island.
87	Polarstern Leg II (Arktisiv/3)	P. Mudie EMG, AGC	July, 1987 - August, 1987	Eurasian Point Basin - multidisciplinary cruise to study oceanographic/geologic environment not previously studied in Nansen and Amudsen Basin in deeper waters of Arctic, onboard German ice breaker Polarstern.

* Dates for AGC portion of survey; joint survey with USGS.

APPENDIX I (Continued)

Cruise Number	Vessel	Chief Scientist	Dates	Cruise Purpose
86**	Nahidik	P. Hill EMG, AGC	Sept. 4, 1986 - Sept. 12, 1986	To investigate the sedimentary processes and deposits in the inner shelf Mackenzie River Delta, Richards Island and Kugmallit Bay
87 Scots		J. Shaw EMG, AGC		
87 Tully	Tully	R. Harmes EMG, AGC	Aug. 8, 1987 - Aug. 17, 1987	To determine the distribution of sediment facies in the Beaufort Sea Shelf and to collect samples for fume analyses.

** Data not acquired at AGC until Spring, 1987

APPENDIX II - SAMPLES

Cruises	Geographic Area
87003	Scotian Shelf
87006 - Phase II	Sydney Harbour, Nova Scotia
87008	Southeast Grand Banks, Flemish Pass
87014	Eastern Grand Banks
87015	Bay of Fundy, Point Lepreau
87021	Natashquaan, Quebec and Mingan, Cape Breton
87023	Gulf of St. Lawrence Estuary, Sept. Iles and Ile d'Anticosti and Baie des Chaleurs
87025	Cape Dorset, Labrador Basin
87027	Cape Dorset, Labrador Basin
87028	Hudson Bay, Hudson Strait
87033	Baffin Island Shelf and Slope, Davies Strait, Hudson Strait, Labrador Shelf and Northeast Newfoundland Shelf
87042	Vicinity Sable Island, Scotian Shelf
87045	Gulf of St. Lawrence
87047	St. Anne's Bay, Ingonish, Cape Breton inner shelf
87100	Lougheed Island, King Christian Island, inter-island leads
87200	Ice Island
87302	St. John's Bay, Newfoundland
87400	Grand Banks borehole program
87401	Northumberland Strait borehole program
87 Balder Challenger	Balder Challenger site survey Panuke, Como sites, Scotian Shelf
87 Ellice Island	Mackenzie River Delta and Levee, N.W.T.
87 Karluk	Tuktoyaktuk Peninsula Coast and Inner Beaufort Sea Shelf
86 Nahidik	Beaufort Sea
87 Nahidik	Beaufort Sea
87 Polarstern Leg II (Arktis IV/3)	Eurasian Basin
87 Scots	Scots Bay, Nova Scotia
87 Story Head	South Shore, Nova Scotia
87 Tully	Beaufort Sea Shelf, N.W.T.

SAMPLE LOCATIONS - 87003.
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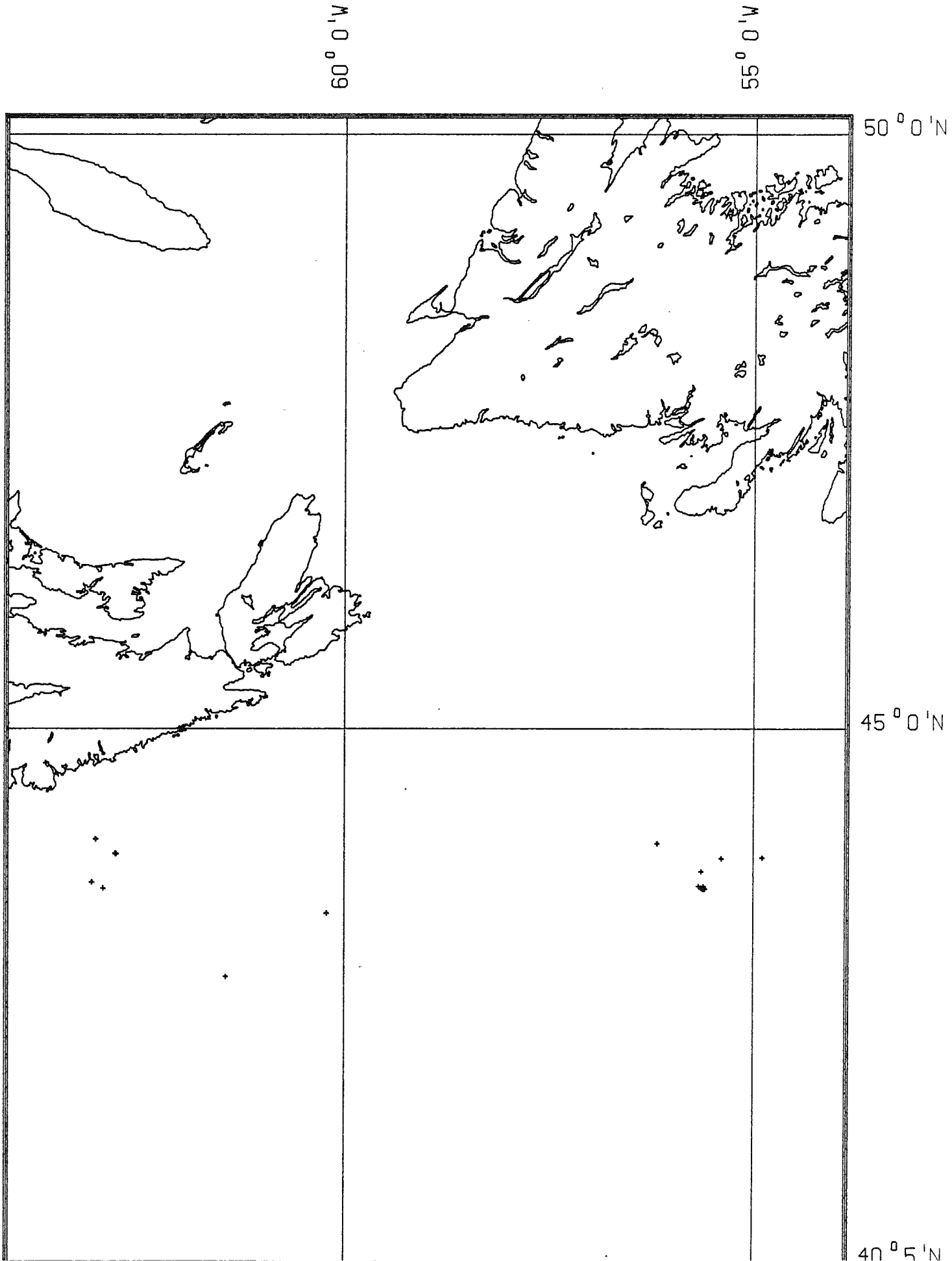

87003PL

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87003	001	44.69450	-63.64833	MANCHESTER,K./HUDSON	BEDFORD BASIN	62.00	93	CORE	TRIGGER WEIGHT	68.0
*	87003	001	44.69450	-63.64833	MANCHESTER,K./HUDSON	BEDFORD BASIN	62.00	93	CORE	LCF	482.0
*	87003	002	44.01550	-63.03400	MANCHESTER,K./HUDSON	EMERALD BASIN	215.00	94	CORE	TRIGGER WEIGHT	104.0
*	87003	002	44.01550	-63.03400	MANCHESTER,K./HUDSON	EMERALD BASIN	215.00	94	CORE	LCF	1686.0
*	87003	003	43.88167	-62.78383	MANCHESTER,K./HUDSON	EMERALD BASIN	232.00	94	CORE	LCF	1211.0
*	87003	003	43.88167	-62.78283	MANCHESTER,K./HUDSON	EMERALD BASIN	232.00	94	CORE	TRIGGER WEIGHT	166.0
*	87003	004	43.88500	-62.79500	MANCHESTER,K./HUDSON	EMERALD BASIN	235.00	95	CORE	LCF	1933.0
*	87003	004	43.88500	-62.79500	MANCHESTER,K./HUDSON	EMERALD BASIN	235.00	95	CORE	TRIGGER WEIGHT	113.0
*	87003	005	43.57000	-62.94167	MANCHESTER,K./HUDSON	EMERALD BASIN	247.00	95	CORE	LCF	104.0
*	87003	006	43.62600	-63.08317	MANCHESTER,K./HUDSON	EMERALD BASIN	247.00	95	CORE	LCF	1671.0
*	87003	006	43.62600	-63.08317	MANCHESTER,K./HUDSON	EMERALD BASIN	247.00	95	CORE	TRIGGER WEIGHT	103.0
*	87003	007	43.34500	-60.21500	MANCHESTER,K./HUDSON	LOGAN CANYON	920.00	96	CORE	LCF	1500.0
*	87003	007	43.34500	-60.21500	MANCHESTER,K./HUDSON	LOGAN CANYON	920.00	96	CORE	TRIGGER WEIGHT	118.0
*	87003	008	43.97650	-56.17850	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3204.00	97	CORE	LCF	902.0
*	87003	008	43.97650	-56.17850	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3204.00	97	CORE	TRIGGER WEIGHT	69.0
*	87003	009	43.85000	-54.89300	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3200.00	98	CORE	LCF	804.0
*	87003	009	43.85000	-54.89300	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3200.00	98	CORE	TRIGGER WEIGHT	213.0
*	87003	010	43.84167	-55.38867	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3300.00	98	CORE	TRIGGER WEIGHT	150.0
*	87003	010	43.84167	-55.38867	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3300.00	98	CORE	LCF	1358.0
*	87003	011	43.59167	-55.66767	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3750.00	99	CAMERA	UMEL	
*	87003	012	43.72433	-55.63850	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3744.00	99	DREDGE	BIOLOGICAL	
*	87003	013	43.57433	-55.63917	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3744.00	99	DREDGE	BIOLOGICAL	
*	87003	014	43.56950	-55.61150	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3750.00	100	CAMERA	UMEL	
*	87003	015	43.57100	-55.62950	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3751.00	100	DREDGE	BIOLOGICAL	
*	87003	016	43.56517	-55.61633	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3749.00	100	DREDGE	BIOLOGICAL	
*	87003	017	43.57367	-55.60817	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3758.00	100	DREDGE	BIOLOGICAL	
*	87003	018	43.59050	-55.60917	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3777.00	101	DREDGE	BIOLOGICAL	
*	87003	019	43.56750	-55.59667	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3825.00	101	CAMERA	UMEL	
*	87003	020	43.56833	-55.59333	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3753.00	101	DREDGE	BIOLOGICAL	
*	87003	021	43.56783	-55.61233	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3749.00	101	CORE	BOXCORE	
*	87003	022	43.56900	-55.62133	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3770.00	101	DREDGE	BIOLOGICAL	
*	87003	023	43.56850	-55.60833	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3751.00	101	DREDGE	BIOLOGICAL	
*	87003	024	43.56700	-55.61733	MANCHESTER,K./HUDSON	LAURENTIAN FAN	3696.00	102	CORE	BOXCORE	
*	87003	025	42.76583	-61.44117	MANCHESTER,K./HUDSON	VERRILL CANYON	1792.00	103	CORE	LCF	650.0

SAMPLE LOCATIONS - 87006 PHASE2.
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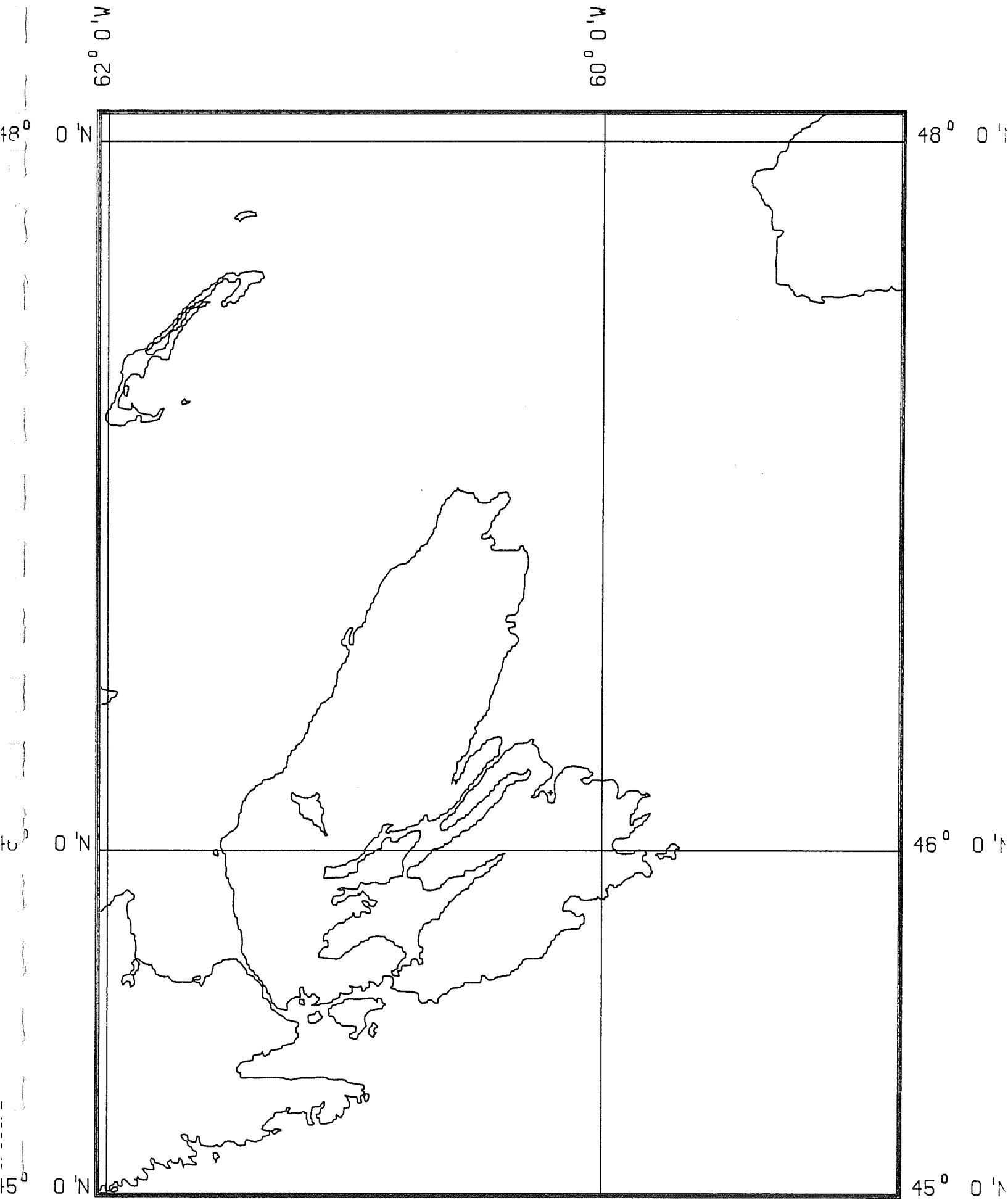
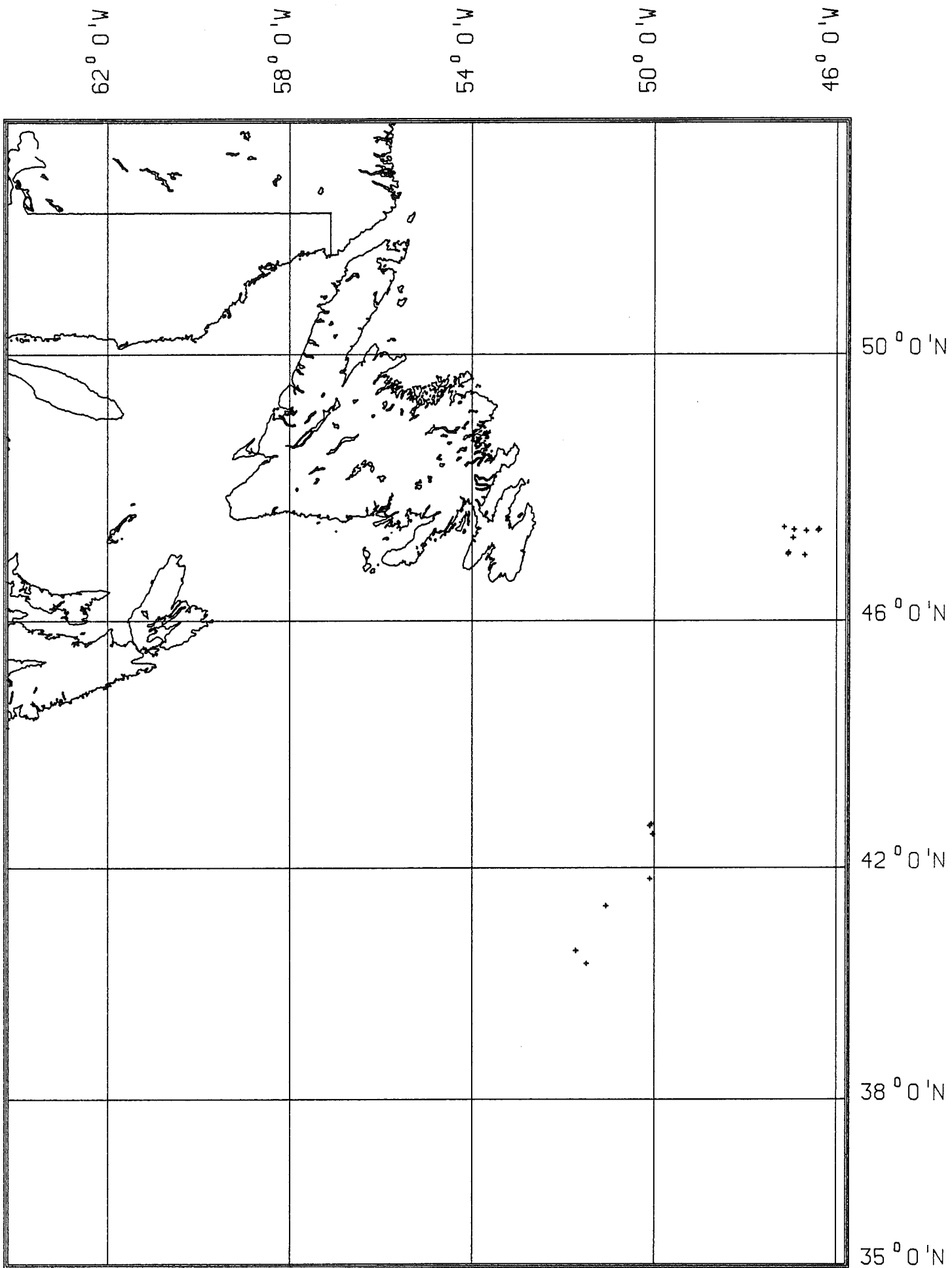


	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87006 PHASE2	24-1	46.16667	-60.20833	A.FRASER(MEL)/NAVICULA	SYDNEY HARBOUR	15.00	311	CORE	LEHIGH	218.0
*	87006 PHASE2	24-2	46.16667	-60.20833	A.FRASER(MEL)/NAVICULA	SYDNEY HARBOUR	15.00	311	CORE	LEHIGH	192.0

SAMPLE LOCATIONS - 87008.
1:7500000 (MERCATOR, 53N).

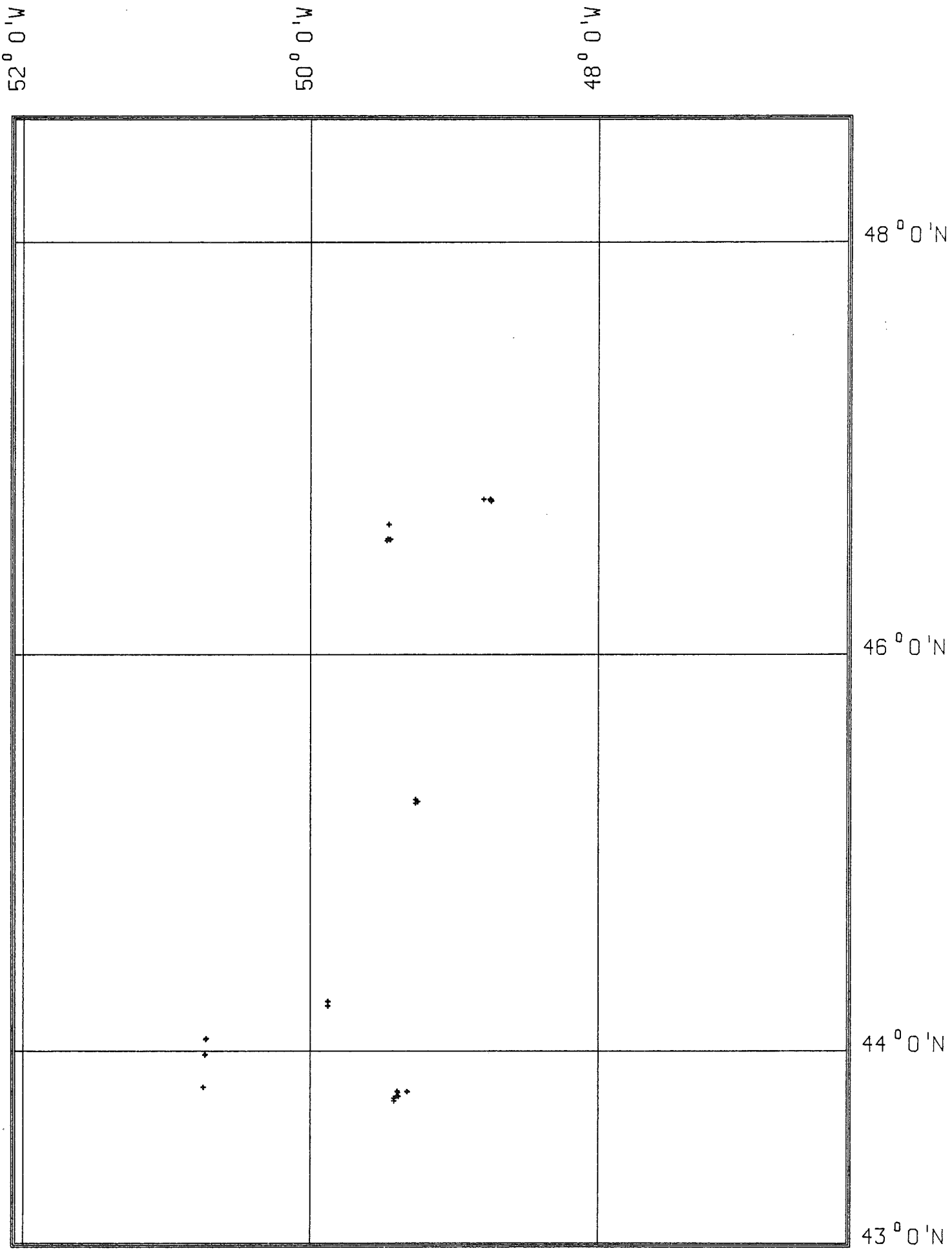


87008PI

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87008	001	44.69317	-63.64867	PIPER,D./HUDSON	BEDFORD BASIN	63.00	111	CORE	TRIGGER WEIGHT	72.0
*	87008	001	44.69317	-63.64867	PIPER,D./HUDSON	BEDFORD BASIN	63.00	111	CORE	LCF	0.0
*	87008	002	40.60000	-51.71500	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, SOHM ABYSSAL PLAIN	4978.00	114	CORE	BOX	
*	87008	002	40.60000	-51.71500	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, SOHM ABYSSAL PLAIN	4978.00	114	CORE	PUSHCORE	29.0
*	87008	003	40.37667	-51.48667	PIPER,D./HUDSON	S. GRAND BANKS MARGIN	3877.00	114	CORE	TRIGGER WEIGHT	0.0
*	87008	003	40.37667	-51.48667	PIPER,D./HUDSON	S. GRAND BANKS MARGIN	3877.00	114	CORE	LCF	1976.0
*	87008	004	41.36117	-51.05833	PIPER,D./HUDSON	S. GRAND BANKS, FOGO SEAMOUNT	3713.00	115	CORE	LCF	538.0
*	87008	004	41.36117	-51.05833	PIPER,D./HUDSON	S. GRAND BANKS, FOGO SEAMOUNT	3713.00	115	CORE	TRIGGER WEIGHT	158.0
*	87008	005	41.81450	-50.09933	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TITANIC SITE	3640.00	116	CORE	LCF	0.0
*	87008	005	41.81450	-50.09933	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TITANIC SITE	3640.00	116	CORE	TRIGGER WEIGHT	120.0
*	87008	006	42.73417	-50.07000	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TAIL OF BANKS	816.00	117	CORE	TRIGGER WEIGHT	0.0
*	87008	006	42.73417	-50.07000	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TAIL OF BANKS	816.00	117	CORE	LCF	643.0
*	87008	007	42.70067	-50.09500	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TAIL OF THE BANKS	1262.00	117	CORE	LCF	1003.0
*	87008	007	42.70067	-50.09500	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TAIL OF THE BANKS	1262.00	117	CORE	TRIGGER WEIGHT	144.0
*	87008	008	42.56200	-50.03650	PIPER,D./HUDSON	S. GRAND BANKS MARGIN	2420.00	117	CORE	LCF	1361.0
*	87008	008	42.56200	-50.03650	PIPER,D./HUDSON	S. GRAND BANKS MARGIN	2420.00	117	CORE	TRIGGER WEIGHT	199.0
*	87008	009	41.70017	-49.99600	PIPER,D./HUDSON	S. GRAND BANKS MARGIN, TITANIC SITE	3731.00	118	CORE	TRIGGER WEIGHT	0.0
*	87008	010	47.43883	-47.14333	PIPER,D./HUDSON	FLEMISH PASS	695.00	122	CORE	LCF	0.0
*	87008	010	47.43883	-47.14333	PIPER,D./HUDSON	FLEMISH PASS	695.00	122	CORE	TRIGGER WEIGHT	35.0
*	87008	011	47.38317	-46.66667	PIPER,D./HUDSON	FLEMISH PASS	1147.00	122	CORE	BOX	
*	87008	011	47.38317	-46.66667	PIPER,D./HUDSON	FLEMISH PASS	1147.00	122	CORE	PUSHCORE	37.0
*	87008	011	47.38317	-46.66667	PIPER,D./HUDSON	FLEMISH PASS	1147.00	122	CORE	PUSHCORE	37.0
*	87008	012	47.40000	-46.93200	PIPER,D./HUDSON	FLEMISH PASS	1053.00	122	CORE	TRIGGER WEIGHT	129.0
*	87008	013	47.01167	-46.70117	PIPER,D./HUDSON	FLEMISH PASS	1080.00	123	CORE	TRIGGER WEIGHT	30.0
*	87008	013	47.01167	-46.70117	PIPER,D./HUDSON	FLEMISH PASS	1080.00	123	CORE	LCF	1046.0
*	87008	014	47.02983	-47.06400	PIPER,D./HUDSON	FLEMISH PASS	1085.00	123	CORE	LCF	0.0
*	87008	014	47.02983	-47.06400	PIPER,D./HUDSON	FLEMISH PASS	1085.00	123	CORE	TRIGGER WEIGHT	48.0
*	87008	015	47.04917	-47.04817	PIPER,D./HUDSON	FLEMISH PASS	1071.00	123	CORE	LCF	1122.0
*	87008	015	47.04917	-47.04817	PIPER,D./HUDSON	FLEMISH PASS	1071.00	123	CORE	TRIGGER WEIGHT	85.0

* 87008	016	47.40000	-46.93133	PIPER,D./HUDSON	FLEMISH PASS	1050.00	124	CORE	LCF	719.0
* 87008	016	47.40000	-46.93133	PIPER,D./HUDSON	FLEMISH PASS	1050.00	124	CORE	TRIGGER WEIGHT	140.0
* 87008	017	47.38317	-46.66850	PIPER,D./HUDSON	FLEMISH PASS	1142.00	124	CORE	TRIGGER WEIGHT	0.0
* 87008	017	47.38317	-46.66850	PIPER,D./HUDSON	FLEMISH PASS	1142.00	124	CORE	LCF	672.0
* 87008	018	47.38333	-46.66667	PIPER,D./HUDSON	FLEMISH PASS	1142.00	124	CORE	BOX	
* 87008	018	47.38333	-46.66667	PIPER,D./HUDSON	FLEMISH PASS	1142.00	124	CORE	PUSHCORE	
* 87008	019	47.37500	-46.42167	PIPER,D./HUDSON	FLEMISH PASS	810.00	125	CORE	TRIGGER WEIGHT	0.0
* 87008	020	47.37667	-46.42000	PIPER,D./HUDSON	FLEMISH PASS	810.00	125	CORE	TRIGGER WEIGHT	0.0
* 87008	021	47.38833	-46.40833	PIPER,D./HUDSON	FLEMISH PASS	820.00	125	CORE	TRIGGER WEIGHT	5.0
* 87008	022	47.38833	-46.40667	PIPER,D./HUDSON	FLEMISH PASS	805.00	125	CORE	TRIGGER WEIGHT	8.0
* 87008	023	47.39833	-46.40000	PIPER,D./HUDSON	FLEMISH PASS	860.00	125	CORE	TRIGGER WEIGHT	10.0
* 87008	024	47.40000	-46.39833	PIPER,D./HUDSON	FLEMISH PASS	855.00	125	CORE	TRIGGER WEIGHT	0.0
* 87008	025	47.40500	-46.38667	PIPER,D./HUDSON	FLEMISH PASS	860.00	125	CORE	TRIGGER WEIGHT	9.0
* 87008	026	47.40667	-46.38667	PIPER,D./HUDSON	FLEMISH PASS	868.00	125	CORE	TRIGGER WEIGHT	7.0
* 87008	027	47.02917	-47.06233	PIPER,D./HUDSON	FLEMISH PASS	1081.00	125	CORE	LCF	741.0
* 87008	027	47.02917	-47.06233	PIPER,D./HUDSON	FLEMISH PASS	1081.00	125	CORE	TRIGGER WEIGHT	30.0
* 87008	028	47.27400	-46.94950	PIPER,D./HUDSON	FLEMISH PASS	1090.00	125	CORE	LCF	420.0
* 87008	028	47.27400	-46.94950	PIPER,D./HUDSON	FLEMISH PASS	1090.00	125	CORE	TRIGGER WEIGHT	126.0

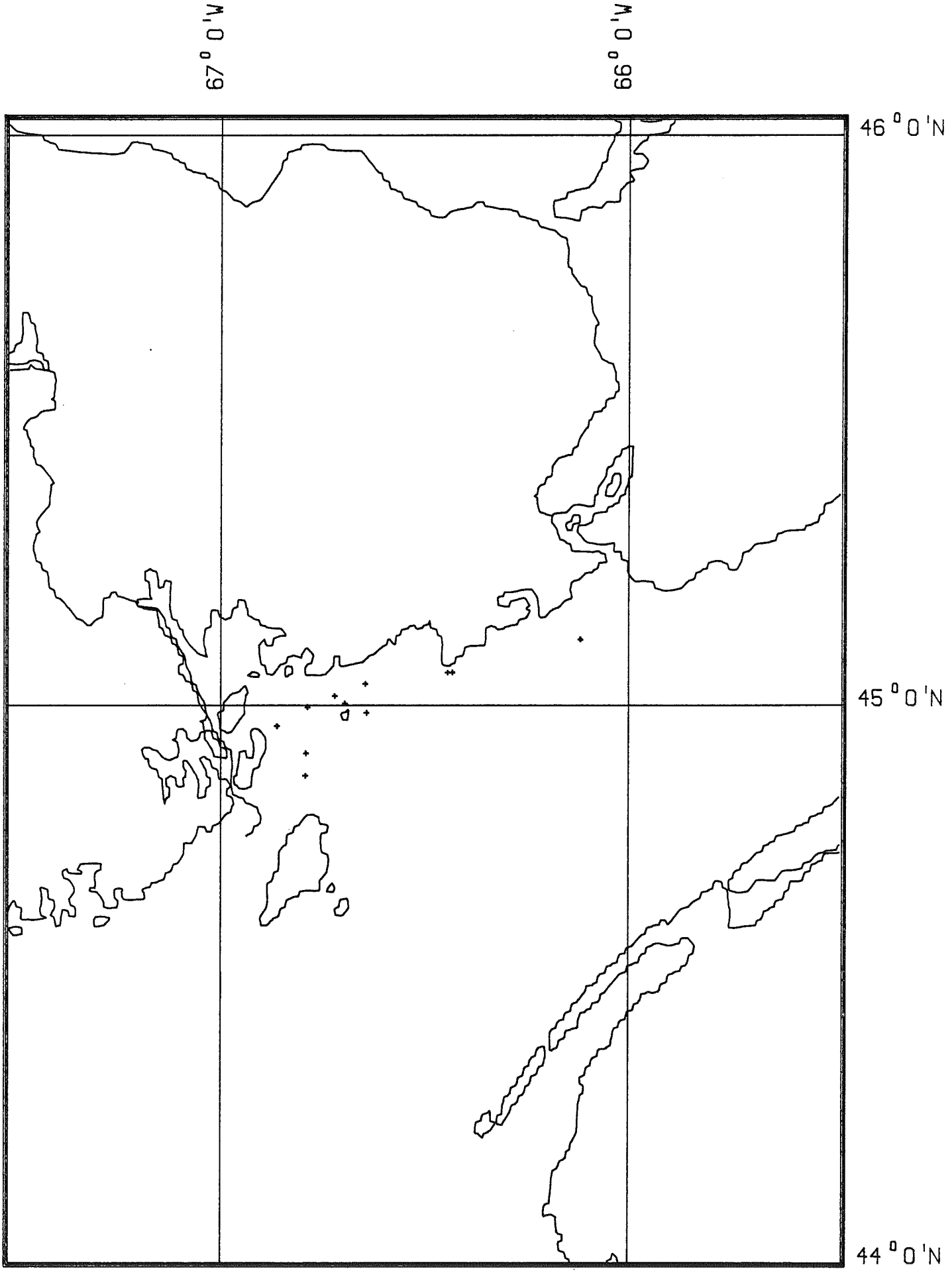
SAMPLE LOCATIONS - 87014.
1:2500000 (MERCATOR, 50N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST-SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87014	001	46.63850	-49.45717	FADER, G./HUDSON	BURIED CHANNEL	65.00	128	GRAB	VAN VEEN	
*	87014	002	46.63800	-49.45667	FADER, G./HUDSON	BURIED CHANNEL	70.00	128	GRAB	VAN VEEN	
*	87014	003	46.56650	-49.44783	FADER, G./HUDSON	BURIED CHANNEL	70.00	128	GRAB	VAN VEEN	
*	87014	004	46.56667	-49.44867	FADER, G./HUDSON	BURIED CHANNEL	70.00	128	CORE	VIBRACORE	27.0
*	87014	005	46.56650	-49.44933	FADER, G./HUDSON	BURIED CHANNEL	71.00	128	CAMERA	UMEL	
*	87014	006	46.56950	-49.46500	FADER, G./HUDSON	BURIED CHANNEL	71.00	128	CAMERA	LACS	
*	87014	007	46.55533	-49.47050	FADER, G./HUDSON	BURIED CHANNEL, SW SIDE	69.00	128	CORE	VIBRACORE	0.0
*	87014	008	46.56050	-49.47083	FADER, G./HUDSON	BURIED CHANNEL	71.00	128	GRAB	VAN VEEN	
*	87014	009	46.76250	-48.80150	FADER, G./HUDSON	HIBERNIA	80.00	129	CORE	BRUTIV	
*	87014	010	46.76250	-48.75417	FADER, G./HUDSON	HIBERNIA	77.00	129	GRAB	VAN VEEN	
*	87014	011	46.75650	-48.74850	FADER, G./HUDSON	HIBERNIA	81.00	129	CAMERA	UMEL	
*	87014	012	46.75917	-48.75433	FADER, G./HUDSON	HIBERNIA	77.00	129	GRAB	VAN VEEN	
*	87014	013	46.75967	-48.75483	FADER, G./HUDSON	HIBERNIA	82.00	129	GRAB	VAN VEEN	
*	87014	014	46.76033	-48.75400	FADER, G./HUDSON	HIBERNIA	80.00	129	GRAB	VAN VEEN	
*	87014	015	46.75950	-48.75200	FADER, G./HUDSON	HIBERNIA	81.00	129	GRAB	VAN VEEN	
*	87014	016	46.75900	-48.75233	FADER, G./HUDSON	HIBERNIA	80.00	129	GRAB	VAN VEEN	
*	87014	017	46.75767	-48.75117	FADER, G./HUDSON	HIBERNIA	82.00	129	GRAB	VAN VEEN	
*	87014	018	46.75817	-48.75067	FADER, G./HUDSON	HIBERNIA	81.00	129	GRAB	VAN VEEN	
*	87014	019	46.75683	-48.74867	FADER, G./HUDSON	HIBERNIA	82.00	129	GRAB	VAN VEEN	
*	87014	020	46.75233	-48.74800	FADER, G./HUDSON	HIBERNIA	81.00	129	GRAB	VAN VEEN	
*	87014	021	46.75233	-48.74867	FADER, G./HUDSON	HIBERNIA	81.00	129	GRAB	VAN VEEN	
*	87014	022	45.25883	-49.27033	FADER, G./HUDSON	WEST OF CARSON CANYON	70.00	130	DREDGE	ROCK DREDGE	
*	87014	023	45.26783	-49.25500	FADER, G./HUDSON	WEST OF CARSON CANYON	70.00	130	CAMERA	BRUTIV	
*	87014	024	45.27767	-49.26900	FADER, G./HUDSON	WEST OF CARSON CANYON	70.00	130	GRAB	VAN VEEN	
*	87014	025	45.27667	-49.27083	FADER, G./HUDSON	WEST OF CARSON CANYON	70.00	130	CAMERA	UMEL	
*	87014	026	43.78917	-49.32583	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	174.00	131	GRAB	VAN VEEN	
*	87014	027	43.79117	-49.32833	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	149.00	131	CAMERA	UMEL	
*	87014	028	43.78633	-49.39167	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	68.00	131	GRAB	VAN VEEN	
*	87014	029	43.78733	-49.39350	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	59.00	131	CAMERA	UMEL	
*	87014	030	43.79333	-49.39650	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	53.00	131	CAMERA	LACS	
*	87014	031	43.75667	-49.41833	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	57.00	132	DREDGE	EPIBENTHIC SLED	
*	87014	032	43.74317	-49.41983	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	60.00	132	CAMERA	BRUTIV	
*	87014	033	43.76750	-49.40200	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	57.00	132	CAMERA	BRUTIV	
*	87014	034	43.76667	-49.38867	FADER, G./HUDSON	SOUTHEAST OF HOYLES CANYON	54.00	132	GRAB	VAN VEEN	
*	87014	035	44.23117	-49.87933	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	42.00	132	CORE	VIBRACORE	185.0
*	87014	036	44.23250	-49.87850	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	42.00	132	GRAB	VAN VEEN	
*	87014	037	44.25367	-49.87733	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	45.00	132	GRAB	VAN VEEN	

* 87014	038	44.25483	-49.87783	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	45.00	132	GRAB	VAN VEEN	
* 87014	039	44.25550	-49.87717	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	48.00	132	CAMERA	LACS	
* 87014	040	44.25300	-49.87700	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	40.00	132	CORE	VIBRACORE	262.0
* 87014	041	43.81483	-50.74717	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	67.00	133	CORE	VIBRACORE	40.0
* 87014	042	43.81483	-50.74900	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	66.00	133	GRAB	VAN VEEN	
* 87014	043	43.81417	-50.74533	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	66.00	133	CAMERA	UMEL	
* 87014	044	43.98000	-50.73667	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	66.00	133	CORE	VIBRACORE	180.0
* 87014	045	43.97917	-50.73667	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	66.00	133	GRAB	VAN VEEN	
* 87014	046	43.98250	-50.73333	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	58.00	133	CAMERA	LACS	
* 87014	047	44.05983	-50.73067	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	58.00	133	CORE	VIBRACORE	93.0
* 87014	048	44.06050	-50.73017	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	58.00	133	GRAB	VAN VEEN	
* 87014	049	44.06550	-50.72583	FADER, G./HUDSON	GRAND BANK, SOUTHEAST SHOAL	58.00	133	CAMERA	BRUTIV	

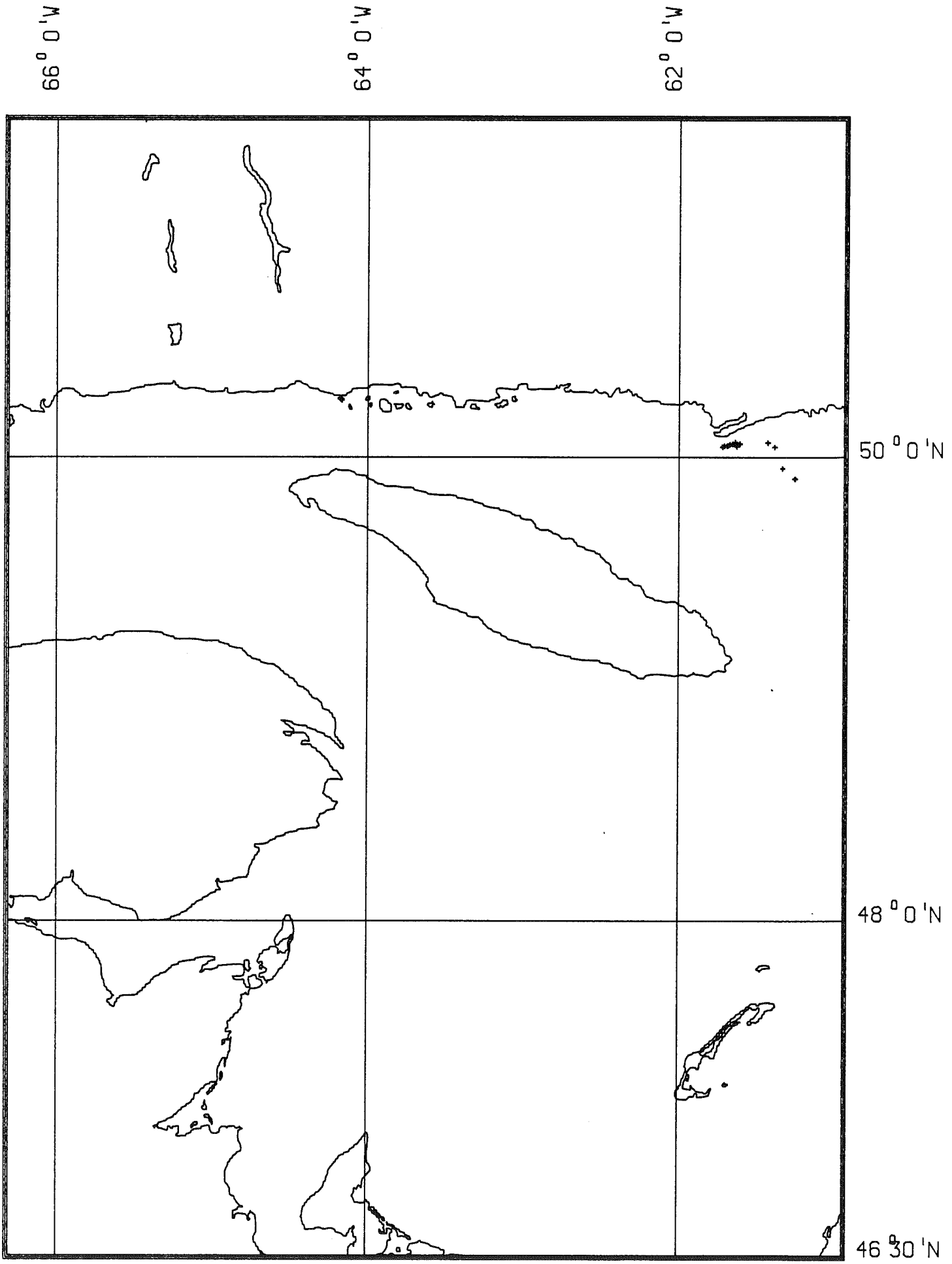
SAMPLE LOCATIONS - 87015.
1:975000 (MERCATOR, 46N).



015

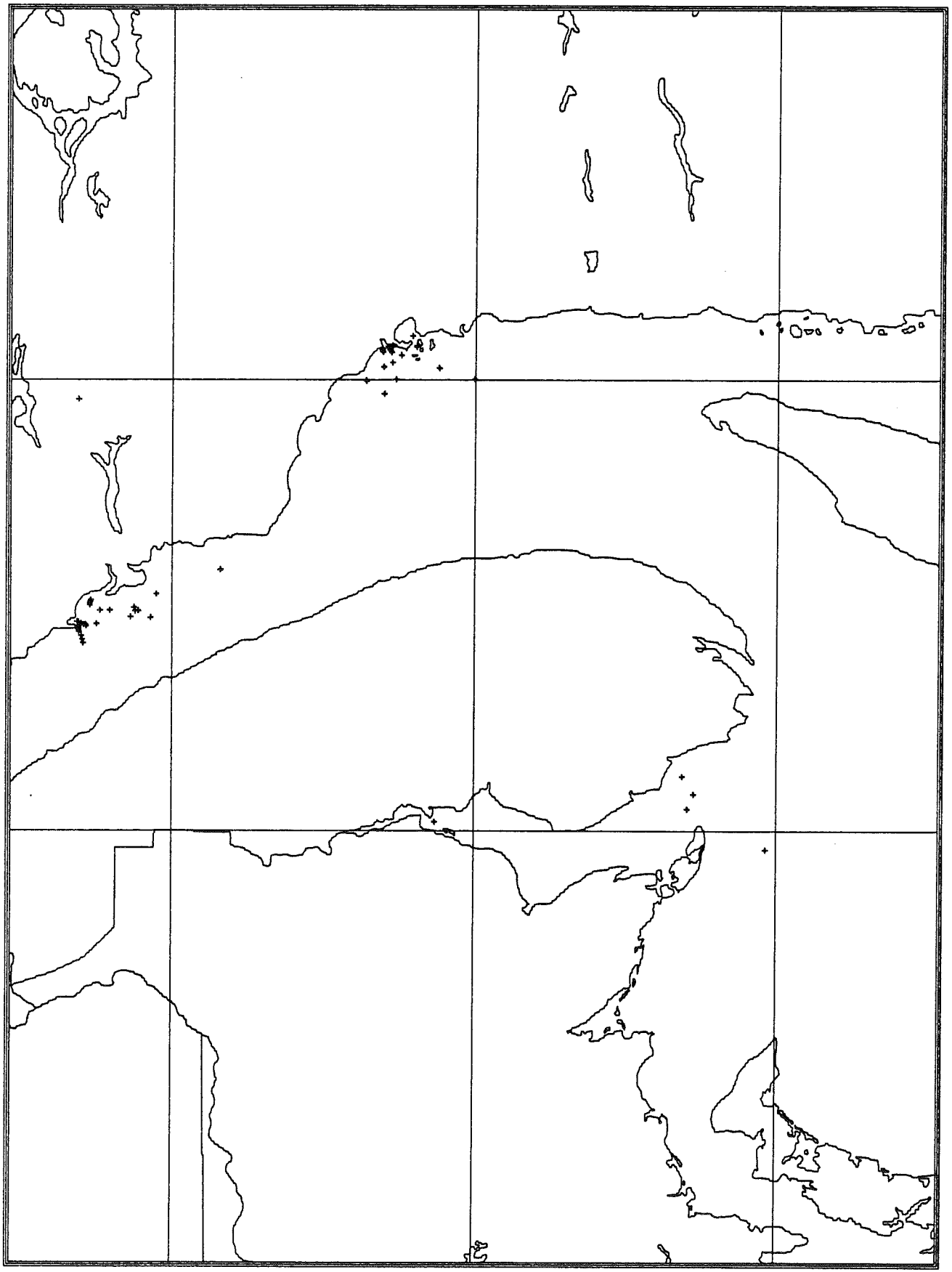
	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87015	006	44.87500	-66.79167	SMITH,J./DAWSON	BAY OF FUNDY	147.00	140	CORE	BOXCORE	35.0
*	87015	007	44.91500	-66.79000	SMITH,J./DAWSON	BAY OF FUNDY	106.00	140	CORE	BOXCORE	26.0
*	87015	008	44.96333	-66.86167	SMITH,J./DAWSON	BAY OF FUNDY	120.00	140	CORE	BOXCORE	39.0
*	87015	008	44.96333	-66.86167	SMITH,J./DAWSON	BAY OF FUNDY	120.00	140	CORE	LEHIGH	90.0
*	87015	009	44.99667	-66.78667	SMITH,J./DAWSON	BAY OF FUNDY	59.00	140	CORE	BOXCORE	33.0
*	87015	009	44.99667	-66.78667	SMITH,J./DAWSON	BAY OF FUNDY	59.00	140	CORE	LEHIGH	153.0
*	87015	030	45.11667	-66.11833	SMITH,J./DAWSON	BAY OF FUNDY	66.00	141	CORE	LEHIGH	89.0
*	87015	030	45.11667	-66.11833	SMITH,J./DAWSON	BAY OF FUNDY	66.00	141	CORE	BOXCORE	34.0
*	87015	043	45.03833	-66.64500	SMITH,J./DAWSON	BAY OF FUNDY	52.00	142	CORE	LEHIGH	152.0
*	87015	044	45.01667	-66.72000	SMITH,J./DAWSON	BAY OF FUNDY	56.00	142	CORE	LEHIGH	162.0
*	87015	045	45.00333	-66.69500	SMITH,J./DAWSON	BAY OF FUNDY	72.00	142	CORE	LEHIGH	167.0
*	87015	046	44.98667	-66.64167	SMITH,J./DAWSON	BAY OF FUNDY	53.00	142	CORE	LEHIGH	171.0
*	87015	062	45.05833	-66.43167	SMITH,J./DAWSON	BAY OF FUNDY	40.00	142	CORE	LEHIGH	119.0
*	87015	082	45.05833	-66.44333	SMITH,J./DAWSON	BAY OF FUNDY	40.00	143	GRAB	GRAB	

SAMPLE LOCATIONS - 87021B.
1:2275000 (MERCATOR, 51N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87021B	M1	50.24833	-64.18000	LONG,B./CSS DAWSON	MINGAN	18.00	328	CORE	VIBRACORE	98.0
*	87021B	M2	50.24300	-64.17183	LONG,B./CSS DAWSON	MINGAN	28.00	328	CORE	VIBRACORE	180.0
*	87021B	M3	50.24450	-64.17983	LONG,B./CSS DAWSON	MINGAN	31.00	328	CORE	VIBRACORE	113.0
*	87021B	M4	50.24617	-64.17733	LONG,B./CSS DAWSON	MINGAN	25.00	328	CORE	VIBRACORE	193.5
*	87021B	M5	50.24233	-64.17517	LONG,B./CSS DAWSON	MINGAN	24.00	328	CORE	VIBRACORE	174.0
*	87021B	M6	50.24450	-64.17133	LONG,B./CSS DAWSON	MINGAN	27.00	328	CORE	VIBRACORE	127.0
*	87021B	M7	50.23983	-64.17033	LONG,B./CSS DAWSON	MINGAN	29.00	328	FAIL	VIBRACORE	0.0
*	87021B	M8	50.23983	-64.17000	LONG,B./CSS DAWSON	MINGAN	42.00	328	CORE	VIBRACORE	25.0
*	87021B	N10	50.05017	-61.68300	LONG,B./CSS DAWSON	NATASHQUAN	18.00	329	CORE	VIBRACORE	280.0
*	87021B	N11	50.05383	-61.67350	LONG,B./CSS DAWSON	NATASHQUAN	20.00	329	CORE	VIBRACORE	237.0
*	87021B	N12	50.05467	-61.65667	LONG,B./CSS DAWSON	NATASHQUAN	21.00	329	CORE	VIBRACORE	152.4
*	87021B	N13	50.06367	-61.63683	LONG,B./CSS DAWSON	NATASHQUAN	18.00	329	CORE	VIBRACORE	174.0
*	87021B	N14	50.05633	-61.60800	LONG,B./CSS DAWSON	NATASHQUAN	24.00	329	CORE	VIBRACORE	230.0
*	87021B	N15	50.04500	-61.62767	LONG,B./CSS DAWSON	NATASHQUAN	50.00	329	CORE	VIBRACORE	450.0
*	87021B	N16	50.04950	-61.63033	LONG,B./CSS DAWSON	NATASHQUAN	27.00	329	CORE	VIBRACORE	241.0
*	87021B	N26	50.06083	-61.42933	LONG,B./CSS DAWSON	NATASHQUAN	63.00	330	CORE	VIBRACORE	499.0
*	87021B	N27	50.04283	-61.38633	LONG,B./CSS DAWSON	NATASHQUAN	102.00	330	CORE	VIBRACORE	113.5
*	87021B	N28A	49.95267	-61.33650	LONG,B./CSS DAWSON	NATASHQUAN	64.00	330	FAIL	VIBRACORE	0.0
*	87021B	N29	49.90867	-61.25533	LONG,B./CSS DAWSON	NATASHQUAN	90.00	330	FAIL	VIBRACORE	0.0
*	87021B	N29	49.90867	-61.25533	LONG,B./CSS DAWSON	NATASHQUAN	90.00	330	GRAB	VANVEEN	
*	87021B	N7	50.04350	-61.71967	LONG,B./CSS DAWSON	NATASHQUAN	57.00	329	CORE	VIBRACORE	468.0
*	87021B	N7	50.04350	-61.71967	LONG,B./CSS DAWSON	NATASHQUAN	57.00	329	GRAB	VANVEEN	
*	87021B	N8	50.04817	-61.70750	LONG,B./CSS DAWSON	NATASHQUAN	17.00	329	CORE	VIBRACORE	247.0
*	87021B	N9	50.04783	-61.69033	LONG,B./CSS DAWSON	NATASHQUAN	24.00	329	CORE	VIBRACORE	209.0

SAMPLE LOCATIONS - 87023.
1:2500000 (MERCATOR, 53N).



87023P1

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87023	A1	48.89167	-68.61800	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	50.00	169	GRAB	VAN VEEN	
*	87023	A2	48.89717	-68.61867	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	10.00	169	GRAB	VAN VEEN	
*	87023	A3	48.90300	-68.62033	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	4.60	169	GRAB	VAN VEEN	
*	87023	A3	48.90300	-68.62033	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	4.60	169	GRAB	VAN VEEN	
*	87023	A4	48.90833	-68.62000	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	6.00	169	GRAB	VAN VEEN	
*	87023	A5	49.91333	-68.62133	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	11.00	169	GRAB	VAN VEEN	
*	87023	B1	48.91750	-68.57000	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	34.00	169	GRAB	VAN VEEN	
*	87023	B2	48.92333	-68.58667	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	20.00	169	GRAB	VAN VEEN	
*	87023	B3	48.93000	-68.60167	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	4.60	169	GRAB	VAN VEEN	
*	87023	B4	48.93500	-68.62000	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	2.40	169	GRAB	VAN VEEN	
*	87023	B5	48.93667	-68.62833	SYVITSKI,J./DAWSON	OFFSHORE BETSIAMITES DELTA	1.40	169	GRAB	VAN VEEN	
*	87023	C1	49.01050	-68.54500	SYVITSKI,J./DAWSON	BAIE AUX OUTARDES	7.60	169	GRAB	VAN VEEN	
*	87023	C2	49.01633	-68.54533	SYVITSKI,J./DAWSON	BAIE AUX OUTARDES	3.70	169	GRAB	VAN VEEN	
*	87023	C3	49.02200	-68.54267	SYVITSKI,J./DAWSON	BAIE AUX OUTARDES	3.00	169	GRAB	VAN VEEN	
*	87023	C4	49.02833	-68.54083	SYVITSKI,J./DAWSON	BAIE AUX OUTARDES	3.00	169	GRAB	VAN VEEN	
*	87023	C5	49.03250	-68.53733	SYVITSKI,J./DAWSON	BAIE AUX OUTARDES	2.40	169	GRAB	VAN VEEN	
*	87023	PB1	48.91717	-68.61667	SYVITSKI,J./DAWSON	POINTE A MICHEL	0.00	169	LAND	TRENCH	
*	87023	PB2	48.91717	-68.61667	SYVITSKI,J./DAWSON	POINTE A MICHEL	0.00	169	LAND	TRENCH	
*	87023	PB3	48.91717	-68.61667	SYVITSKI,J./DAWSON	POINTE A MICHEL	0.00	169	LAND	TRENCH	
*	87023	PB4	48.91717	-68.61667	SYVITSKI,J./DAWSON	POINTE A MICHEL	0.00	169	LAND	TRENCH	
*	87023	SLD1	50.13000	-66.61917	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	3.00	173	GRAB	VAN VEEN	
*	87023	SLD2	50.12617	-66.61750	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	1.80	173	GRAB	VAN VEEN	
*	87023	SLD3	50.12333	-66.61700	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	3.60	173	GRAB	VAN VEEN	
*	87023	SLD4	50.12333	-66.61700	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	4.20	173	GRAB	VAN VEEN	
*	87023	SLD5	50.12167	-66.61500	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	4.60	173	GRAB	VAN VEEN	
*	87023	SLD6	50.12000	-66.61367	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	9.10	173	GRAB	VAN VEEN	
*	87023	SLE1	50.15000	-66.55000	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	3.60	173	GRAB	VAN VEEN	
*	87023	SLE2	50.14833	-66.55000	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	3.00	173	GRAB	VAN VEEN	
*	87023	SLE3	50.14633	-66.55000	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	3.30	173	GRAB	VAN VEEN	

# 87023	SLE4	50.14333	-66.55000	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	4.60	173	GRAB	VAN VEEN	
# 87023	SLE5	50.07500	-66.55000	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	5.20	173	GRAB	VAN VEEN	
# 87023	SLF1	50.11833	-66.55667	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	9.10	173	GRAB	VAN VEEN	
# 87023	SLF2	50.12383	-66.56167	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	7.60	173	GRAB	VAN VEEN	
# 87023	SLF3	50.12917	-66.56750	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	6.00	173	GRAB	VAN VEEN	
# 87023	SLF4	50.13800	-66.57500	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	4.60	173	GRAB	VAN VEEN	
# 87023	SLF5	50.14417	-66.58000	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	3.00	173	GRAB	VAN VEEN	
# 87023	SLG1	50.00150	-66.52500	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SLG2	50.00150	-66.52500	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SLG3	50.00150	-66.52500	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SLG5	50.00150	-66.52500	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL1	50.13667	-66.61800	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL10A	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL10B	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL11	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL2	50.13667	-66.61800	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL3	50.13667	-66.61800	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL4	50.13667	-66.61800	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL5	50.13667	-66.61800	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL6	50.13667	-66.61800	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL7	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL8	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL9A	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	SL9B	50.00150	-66.00550	SYVITSKI,J./DAWSON	BAIE SAINTE MARGUERITE	0.00	173	LAND	TRENCH	
# 87023	001	48.95500	-68.14117	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	306.00	170	CORE	PISTON	556.0
# 87023	001	48.95500	-68.14117	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	306.00	170	CORE	TRIGGER WEIGHT	88.0
# 87023	002	49.06033	-68.10433	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	76.00	170	CORE	PISTON	96.0

* 87023	002	49.06033	-68.10433	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	76.00	170	CORE	TRIGGER WEIGHT	0.0
* 87023	003	48.98517	-68.22383	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	169.00	170	CORE	TRIGGER WEIGHT	203.0
* 87023	003	48.98517	-68.22383	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	169.00	170	CORE	PISTON	563.0
* 87023	004	48.98450	-68.24383	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	131.00	170	CORE	PISTON	503.0
* 87023	004	48.98450	-68.24383	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	131.00	170	CORE	TRIGGER WEIGHT	110.0
* 87023	005	48.95767	-68.27400	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	244.00	170	CORE	PISTON	0.0
* 87023	005	48.95767	-68.27400	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	244.00	170	CORE	TRIGGER WEIGHT	23.0
* 87023	006	48.98767	-68.41167	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	135.00	170	CORE	PISTON	88.0
* 87023	006	48.98767	-68.41167	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	135.00	170	CORE	TRIGGER WEIGHT	117.0
* 87023	007	48.98733	-68.47633	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	122.00	170	CORE	PISTON	557.0
* 87023	007	48.98733	-68.47633	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	122.00	170	CORE	TRIGGER WEIGHT	129.0
* 87023	008	48.92333	-68.57333	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	97.00	170	CORE	PISTON	501.0
* 87023	008	48.92333	-68.57333	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	97.00	170	CORE	TRIGGER WEIGHT	109.0
* 87023	009	48.87450	-68.60217	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	124.00	170	CORE	PISTON	55.0
* 87023	009	48.87450	-68.60217	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	124.00	170	CORE	TRIGGER WEIGHT	122.0
* 87023	010	48.85817	-68.59583	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	143.00	170	CORE	PISTON	133.0
* 87023	010	48.85817	-68.59583	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	143.00	170	CORE	TRIGGER WEIGHT	23.0
* 87023	011	48.84150	-68.58933	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	255.00	170	CORE	TRIGGER WEIGHT	120.0
* 87023	011	48.84150	-68.58933	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	255.00	170	CORE	PISTON	571.0
* 87023	012	48.92733	-68.50050	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	140.00	171	WATER		
* 87023	012	48.92733	-68.50050	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	140.00	171	CAMERA	FLOC	
* 87023	013	49.00083	-68.25083	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	108.00	171	CAMERA	FLOC	
* 87023	013	49.00083	-68.25083	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	108.00	171	WATER		
* 87023	014	49.16850	-67.67850	SYVITSKI, J./DAWSON	ST LAWRENCE ESTUARY	260.00	172	CAMERA	FLOC	
* 87023	015	49.16600	-67.68233	SYVITSKI,J./DAWSON	ST LAWRENCE ESTUARY	245.00	172	GRAB	VAN VEEN	
* 87023	016	50.05650	-66.60783	SYVITSKI,J./DAWSON	SEPT ISLES	124.00	173	GRAB	VAN VEEN	
* 87023	017	50.05450	-66.60850	SYVITSKI,J./DAWSON	SEPT ISLES	124.00	173	CORE	PISTON	331.0
* 87023	017	50.05450	-66.60850	SYVITSKI,J./DAWSON	SEPT ISLES	124.00	173	CORE	TRIGGER WEIGHT	131.0
* 87023	018	49.99400	-66.72083	SYVITSKI,J./DAWSON	SEPT ISLES	280.00	173	GRAB	VAN VEEN	

* 87023	019	49.99667	-66.72367	SYVITSKI,J./DAWSON	SEPT ISLES	176.00	173	CORE	PISTON	563.0
* 87023	019	49.99667	-66.72367	SYVITSKI,J./DAWSON	SEPT ISLES	176.00	173	CORE	TRIGGER WEIGHT	121.0
* 87023	020	49.93833	-66.60333	SYVITSKI,J./DAWSON	SEPT ISLES	175.00	173	GRAB	VAN VEEN	
* 87023	021	49.93833	-66.60333	SYVITSKI,J./DAWSON	SEPT ISLES	168.00	173	CORE	TRIGGER WEIGHT	130.0
* 87023	021	49.93833	-66.60333	SYVITSKI,J./DAWSON	SEPT ISLES	168.00	173	CORE	PISTON	182.0
* 87023	022	50.10533	-66.49167	SYVITSKI,J./DAWSON	SEPT ISLES	116.00	173	GRAB	VAN VEEN	
* 87023	023	50.10533	-66.49167	SYVITSKI,J./DAWSON	SEPT ISLES	113.00	173	CORE	TRIGGER WEIGHT	113.0
* 87023	023	50.10533	-66.49167	SYVITSKI,J./DAWSON	SEPT ISLES	113.00	173	CORE	PISTON	568.0
* 87023	024	50.14167	-66.39167	SYVITSKI,J./DAWSON	SEPT ISLES	102.00	173	GRAB	VAN VEEN	
* 87023	025	50.14667	-66.39000	SYVITSKI,J./DAWSON	SEPT ISLES	102.00	173	CORE	PISTON	368.0
* 87023	025	50.14667	-66.39000	SYVITSKI,J./DAWSON	SEPT ISLES	102.00	173	CORE	TRIGGER WEIGHT	108.0
* 87023	026	50.18917	-66.41833	SYVITSKI,J./DAWSON	SEPT ISLES	25.00	173	GRAB	VAN VEEN	
* 87023	027	50.18917	-66.41833	SYVITSKI,J./DAWSON	SEPT ISLES	21.00	173	CORE	TRIGGER WEIGHT	0.0
* 87023	027	50.18917	-66.41833	SYVITSKI,J./DAWSON	SEPT ISLES	21.00	173	CORE	PISTON	57.0
* 87023	028	50.05000	-66.24000	SYVITSKI,J./DAWSON	SEPT ISLES	107.00	173	GRAB	VAN VEEN	
* 87023	029	50.05083	-66.24250	SYVITSKI,J./DAWSON	SEPT ISLES	107.00	173	CAMERA	FLOC	
* 87023	029	50.05083	-66.24250	SYVITSKI,J./DAWSON	SEPT ISLES	107.00	173	WATER		
* 87023	030	48.16583	-64.54717	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	100.00	175	WATER		
* 87023	030	48.16583	-64.54717	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	100.00	175	CAMERA	FLOC	
* 87023	031	48.24667	-64.62167	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	96.00	175	WATER		
* 87023	031	48.24667	-64.62167	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	96.00	175	CAMERA	FLOC	
* 87023	032	48.04117	-66.26083	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	30.00	175	WATER		
* 87023	032	48.04117	-66.26083	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	30.00	175	CAMERA	FLOC	
* 87023	033	48.09850	-64.58900	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	80.00	177	WATER		
* 87023	033	48.09850	-64.58900	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	80.00	177	CAMERA	FLOC	
* 87023	034	47.91517	-64.07000	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	72.00	177	WATER		
* 87023	034	47.91517	-64.07000	SYVITSKI,J./DAWSON	BAIE DES CHALEURS	72.00	177	CAMERA	FLOC	

SAMPLE LOCATIONS - 87025.
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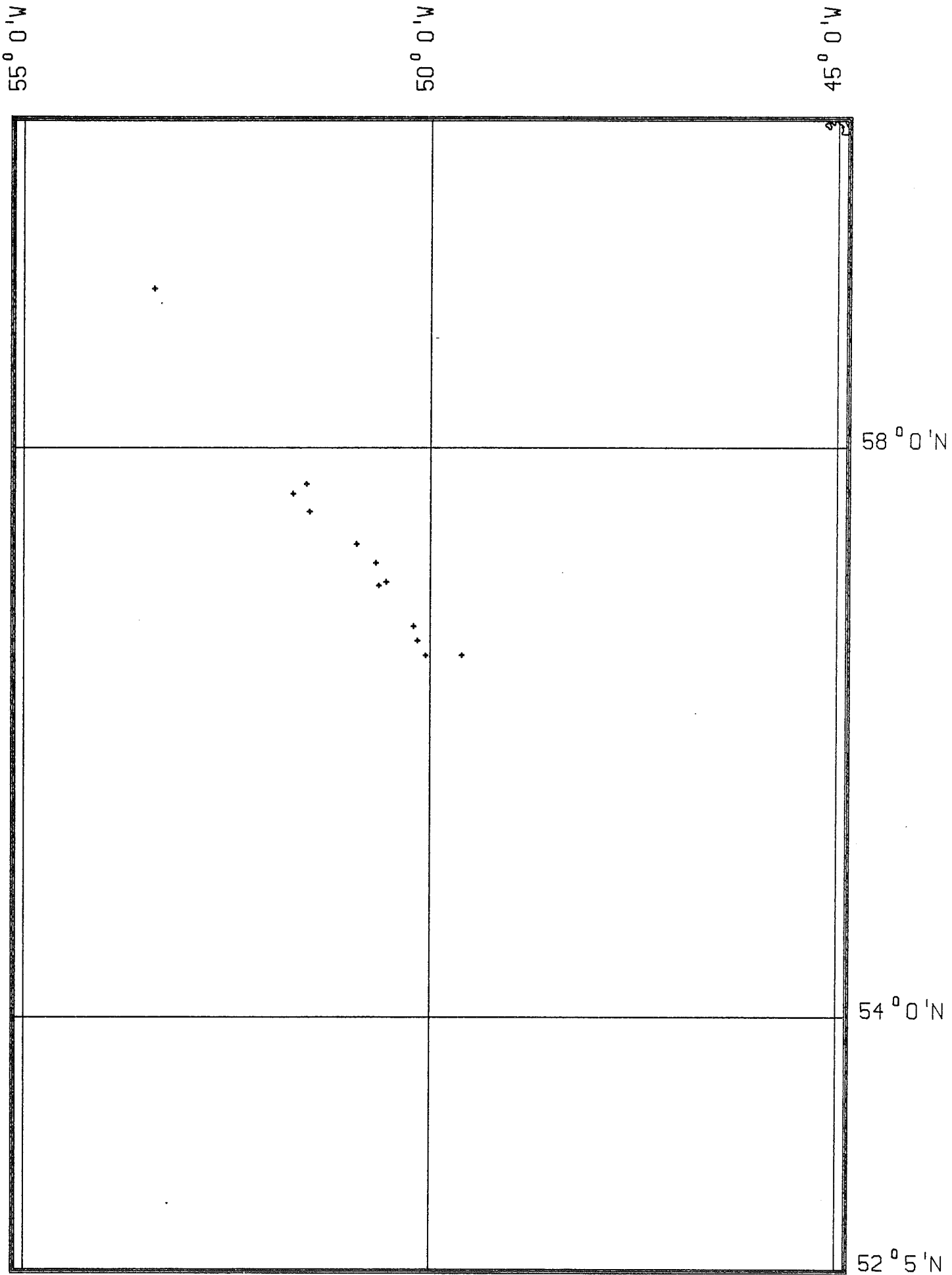
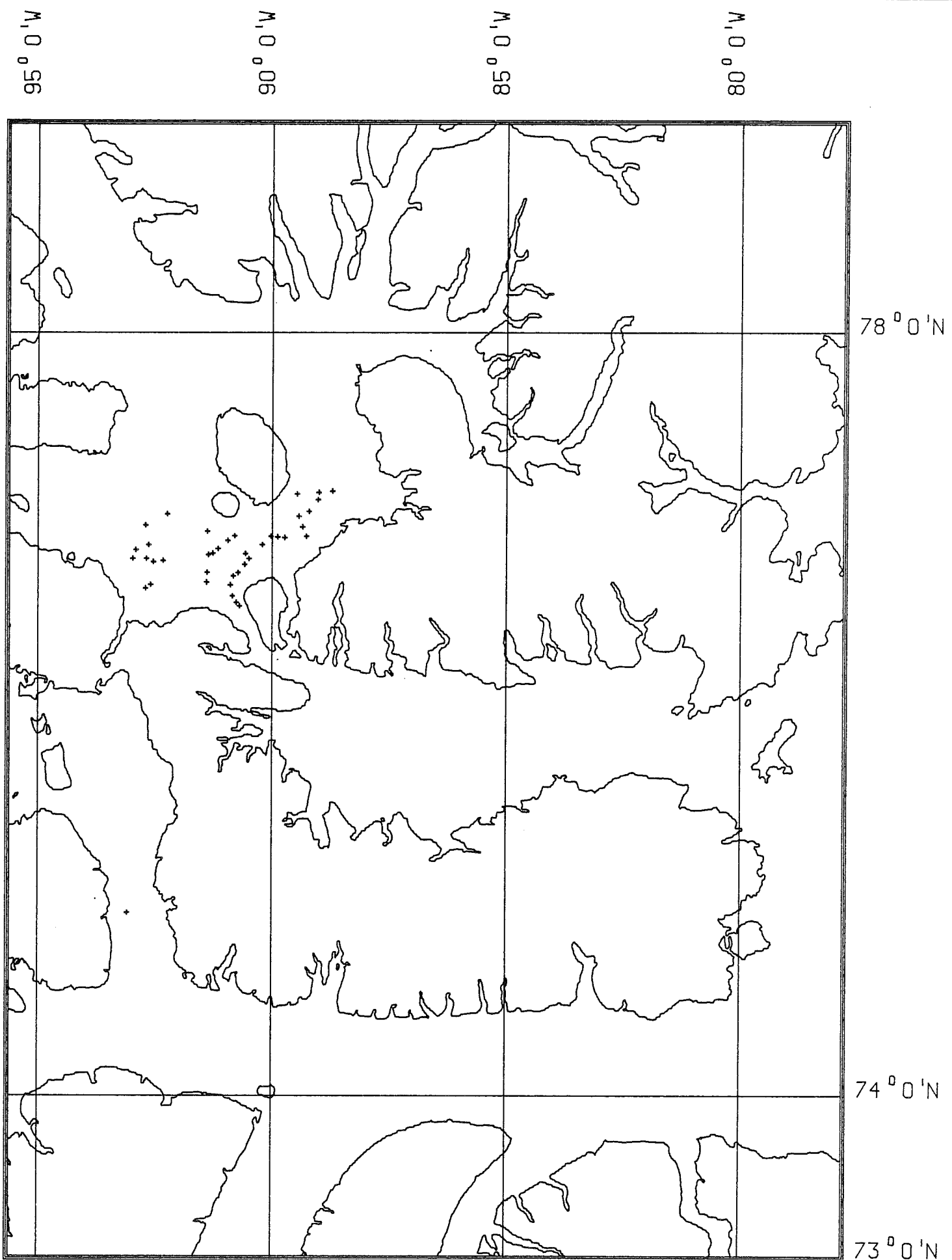


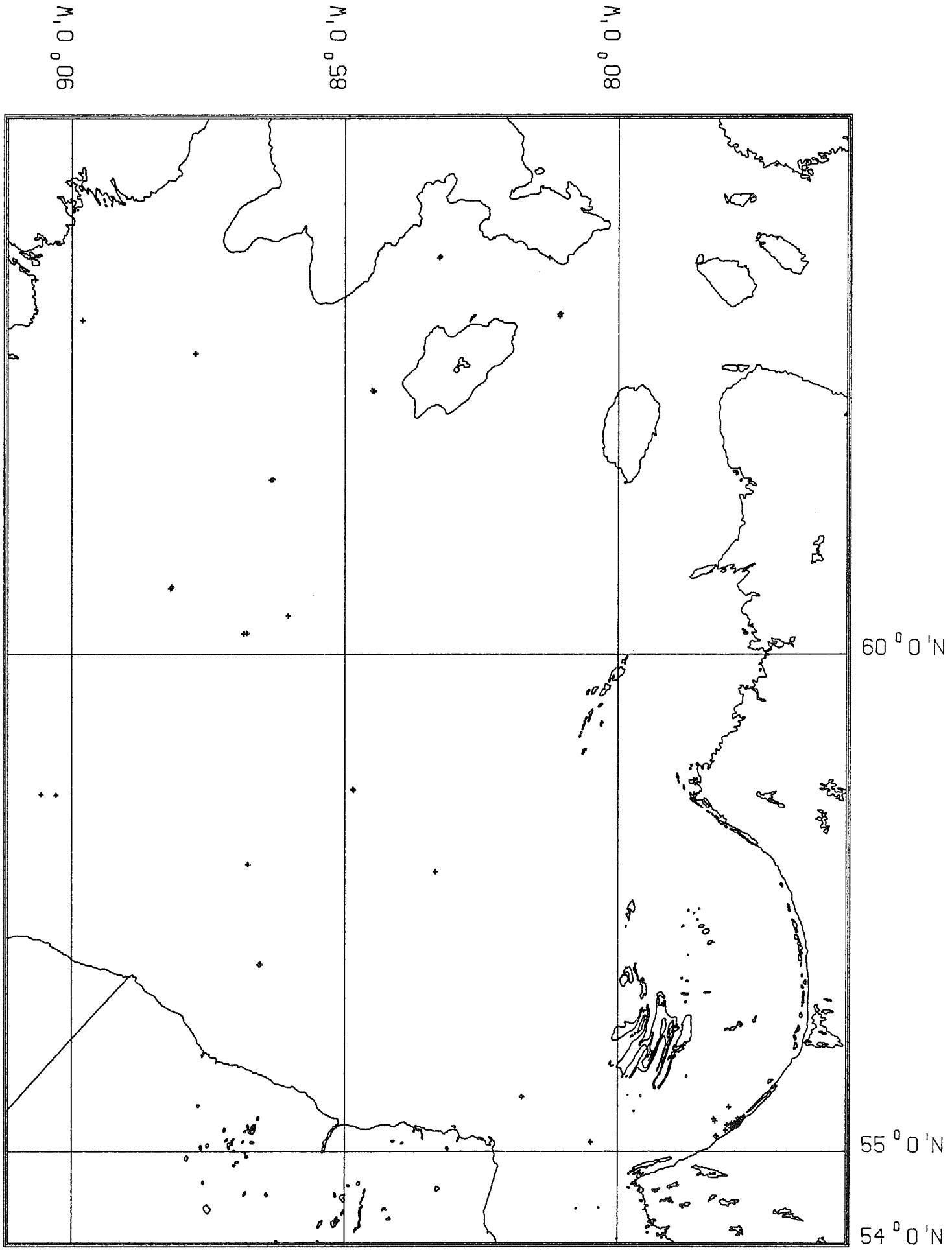
	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87025	001	57.75783	-51.52500	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	98.00	205	CORE	LCF	411.0
*	87025	001	57.75783	-51.52500	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	98.00	205	CORE	TRIGGER WEIGHT	139.0
*	87025	002	57.69167	-51.69083	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	25.50	205	CORE	LCF	373.0
*	87025	002	57.69167	-51.69083	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	25.50	205	CORE	TRIGGER WEIGHT	200.0
*	87025	003	57.57250	-51.48667	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	45.60	205	CORE	TRIGGER WEIGHT	24.0
*	87025	003	57.57250	-51.48667	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	45.60	205	CORE	LCF	0.0
*	87025	004	57.35433	-50.90667	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	53.00	206	CORE	LCF	378.0
*	87025	004	57.35433	-50.90667	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	53.00	206	CORE	TRIGGER WEIGHT	140.0
*	87025	005	57.22550	-50.67133	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	76.70	206	CORE	LCF	668.0
*	87025	005	57.22550	-50.67133	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	76.70	206	CORE	TRIGGER WEIGHT	140.0
*	87025	006	57.09633	-50.54333	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	89.50	206	CORE	LCF	826.0
*	87025	006	57.09633	-50.54333	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	89.50	206	CORE	TRIGGER WEIGHT	12.0
*	87025	007	57.07283	-50.63267	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	91.50	206	CORE	LCF	840.0
*	87025	007	57.07283	-50.63267	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	91.50	206	CORE	TRIGGER WEIGHT	121.0
*	87025	008	56.79250	-50.20417	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	15.00	207	CORE	LCF	764.0
*	87025	008	56.79250	-50.20417	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	15.00	207	CORE	TRIGGER WEIGHT	164.0
*	87025	009	56.69367	-50.15633	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	18.80	207	CORE	LCF	697.0
*	87025	009	56.69367	-50.15633	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	18.80	207	CORE	TRIGGER WEIGHT	126.0
*	87025	010	56.59233	-50.05383	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	85.80	207	CORE	LCF	819.0
*	87025	010	56.59233	-50.05383	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	85.80	207	CORE	TRIGGER WEIGHT	183.0
*	87025	011	56.59367	-49.61583	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	93.70	207	CORE	LCF	
*	87025	011	56.59367	-49.61583	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	93.70	207	CORE	TRIGGER WEIGHT	120.0
*	87025	012	59.04250	-53.40000	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	44.30	209	CORE	LCF	683.0
*	87025	012	59.04250	-53.40000	HESS (MCGILL)/HUDSON	LABRADOR SEA - NAMOC	44.30	209	CORE	TRIGGER WEIGHT	133.0

SAMPLE LOCATIONS - 87027.
1:2500000 (MERCATOR, 78N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87027	001	75.06667	-93.08333	D.PRAEG/B.MACLEAN/BAFFIN	WELLINGTON CHANNEL	209.00	242	CORE	GRAVITY	80.0
*	87027	002	76.86417	-91.38967	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	313.00	249	GRAB	VAN VEEN	
*	87027	003	76.92167	-92.32500	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	206.00	249	CORE	GRAVITY	15.0
*	87027	004	77.01950	-90.95117	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	140.00	250	CORE	GRAVITY	25.0
*	87027	005	76.97500	-92.90833	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	211.00	254	CORE	GRAVITY	15.0
*	87027	006	77.00000	-92.63333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	215.00	254	CORE	GRAVITY	60.0
*	87027	007	76.95617	-90.57333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	92.00	255	GRAB	VAN VEEN	
*	87027	008	76.78500	-92.70000	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	184.00	256	CORE	GRAVITY	95.0
*	87027	009	76.80333	-92.59167	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	142.00	256	CORE	GRAVITY	45.0
*	87027	010	76.91667	-92.53333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	215.00	256	CORE	GRAVITY	85.0
*	87027	011	76.93333	-92.68333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	266.00	256	CORE	GRAVITY	55.0
*	87027	012	76.93333	-92.97500	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	202.00	256	CORE	BENTHOS	25.0
*	87027	013	77.09500	-92.70000	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	266.00	256	CORE	BENTHOS	30.0
*	87027	014	77.15000	-92.23333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	399.00	256	CORE	GRAVITY	55.0
*	87027	015	77.06667	-91.38333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	169.00	259	CORE	GRAVITY	40.0
*	87027	016	77.04383	-90.80367	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	89.00	259	CORE	GRAVITY	45.0
*	87027	017	76.98167	-91.15450	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	160.00	259	CORE	GRAVITY	12.0
*	87027	018	76.95867	-91.26383	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	91.00	259	GRAB	VAN VEEN	
*	87027	019	76.95133	-91.36167	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	95.00	259	CORE	GRAVITY	10.0
*	87027	020	76.95133	-91.36167	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	97.00	259	GRAB	VAN VEEN	
*	87027	021	76.90217	-91.33333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	139.00	259	CORE	BENTHOS	0.0
*	87027	022	76.81533	-91.40050	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	233.00	260	CORE	GRAVITY	7.0
*	87027	023	76.81700	-91.35833	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	259.00	260	CORE	GRAVITY	0.0
*	87027	024	77.24733	-89.46467	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	175.00	260	CORE	GRAVITY	25.0
*	87027	025	77.25383	-89.00250	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	314.00	260	CORE	GRAVITY	20.0
*	87027	026	77.26017	-88.71017	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	315.00	260	CORE	GRAVITY	100.0
*	87027	027	77.21933	-89.01967	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	366.00	260	CORE	GRAVITY	120.0
*	87027	028	77.16283	-89.21350	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	253.00	260	GRAB	VAN VEEN	
*	87027	029	77.13883	-89.43017	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	350.00	260	CORE	GRAVITY	100.0
*	87027	030	77.08733	-89.34900	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	284.00	260	CORE	GRAVITY	7.0
*	87027	031	77.04183	-89.26833	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	171.00	260	CORE	GRAVITY	15.0
*	87027	032	77.03467	-89.73050	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	252.00	260	CORE	GRAVITY	70.0
*	87027	033	77.03833	-89.88333	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	153.00	260	CORE	GRAVITY	50.0
*	87027	034	77.04117	-90.02717	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	122.00	260	CORE	GRAVITY	25.0
*	87027	035	76.69667	-90.70000	D.PRAEG/B.MACLEAN/BAFFIN	CARDIGAN STRAIT	237.00	262	GRAB	VAN VEEN	
*	87027	036	76.71500	-90.76667	D.PRAEG/B.MACLEAN/BAFFIN	CARDIGAN STRAIT	244.00	262	GRAB	VAN VEEN	
*	87027	037	76.74667	-90.85000	D.PRAEG/B.MACLEAN/BAFFIN	CARDIGAN STRAIT	248.00	262	GRAB	VAN VEEN	
*	87027	038	76.80117	-90.89633	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	148.00	262	GRAB	VAN VEEN	
*	87027	039	76.84583	-90.83217	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	77.00	262	GRAB	VAN VEEN	
*	87027	040	76.86300	-90.73133	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	64.00	262	GRAB	VAN VEEN	
*	87027	041	76.90250	-90.58967	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	66.00	262	GRAB	VAN VEEN	
*	87027	042	76.93167	-90.50117	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	25.00	262	GRAB	VAN VEEN	
*	87027	043	77.00033	-90.21750	D.PRAEG/B.MACLEAN/BAFFIN	NORWEGIAN BAY	91.00	262	CORE	GRAVITY	35.0

SAMPLE LOCATIONS - 87028.
1:4500000 (MERCATOR, 64N).



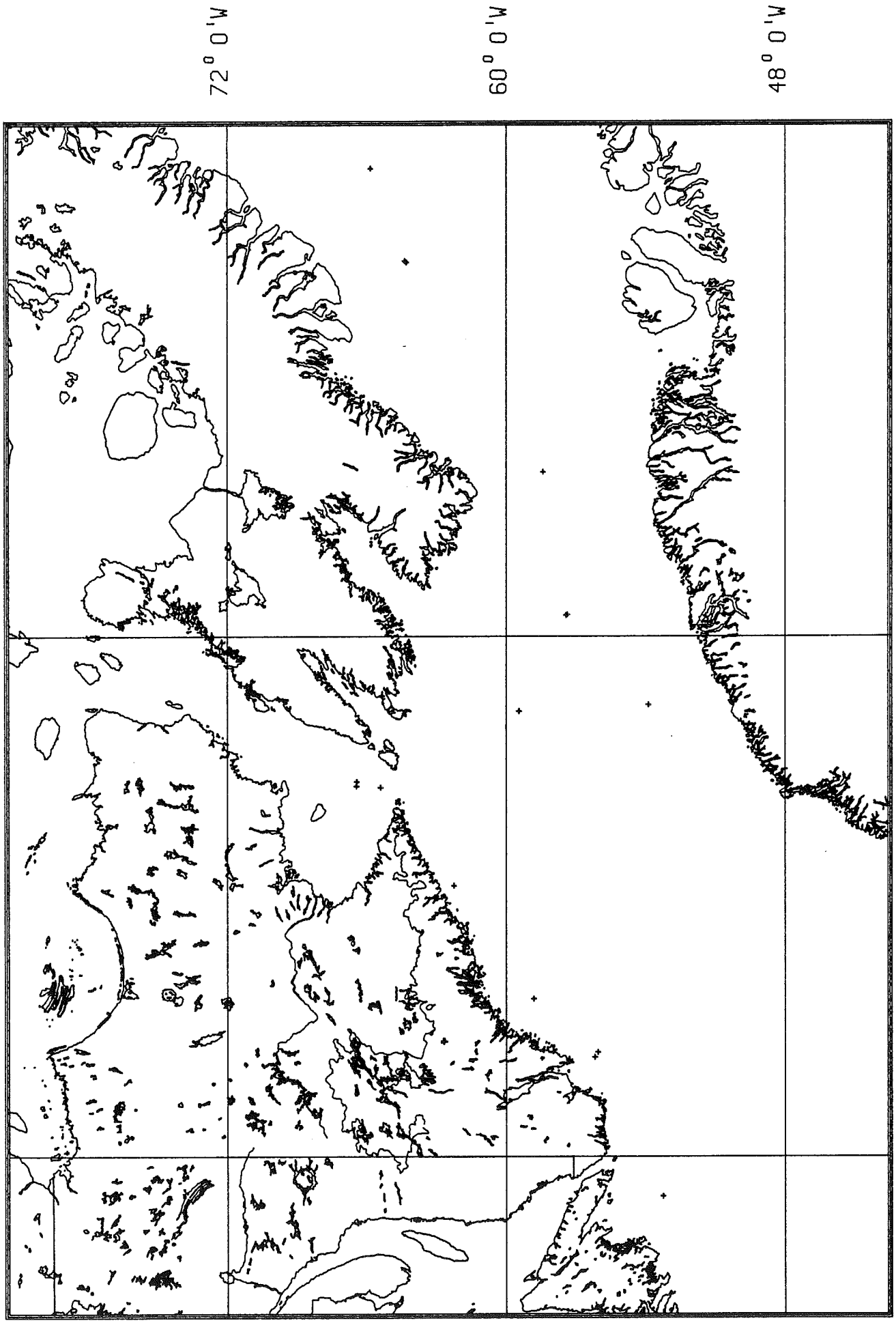
	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87028	001	63.02567	-81.08183	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	273.00	217	CORE	LCF	723.0
*	87028	001	63.02567	-81.08183	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	273.00	217	CORE	TRIGGER WEIGHT	131.0
*	87028	002	63.03167	-81.05333	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	267.00	217	WATER	CTD	
*	87028	003	63.03183	-81.05267	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	267.00	217	CAMERA	UMEL	
*	87028	004	63.00850	-81.07850	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	271.00	217	CORE	LCF	557.0
*	87028	004	63.00850	-81.07850	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	271.00	217	CORE	TRIGGER WEIGHT	125.0
*	87028	005	63.50800	-83.25583	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	95.00	217	FAIL	IKU	
*	87028	006	63.49833	-83.27350	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	95.00	217	GRAB	VANVEEN	
*	87028	007	63.50167	-81.27000	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	95.00	217	WATER	CTD	
*	87028	008	63.50500	-83.26333	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	95.00	217	CAMERA	UMEL	
*	87028	009	63.50350	-83.27383	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	95.00	217	GRAB	DRILL LEG	
*	87028	009	63.50350	-83.27383	H.JOSENHANS/HUDSON	EVANS STRAIT, HUDSON BAY	95.00	217	DRILL	ROCK CORE	12.0
*	87028	010	62.37450	-84.50450	H.JOSENHANS/HUDSON	HUDSON BAY	51.00	218	DRILL	ROCK CORE	116.0
*	87028	011	62.36567	-84.46600	H.JOSENHANS/HUDSON	HUDSON BAY	51.00	218	GRAB	VANVEEN	
*	87028	012	62.36350	-84.46633	H.JOSENHANS/HUDSON	HUDSON BAY	51.00	218	WATER	CTD	
*	87028	013	62.37233	-84.49800	H.JOSENHANS/HUDSON	HUDSON BAY	51.00	218	CAMERA	UMEL	
*	87028	014	61.58800	-86.35100	H.JOSENHANS/HUDSON	HUDSON BAY	214.00	219	WATER	CTD	
*	87028	015	61.59117	-86.32100	H.JOSENHANS/HUDSON	HUDSON BAY	214.00	219	CORE	LCF	182.0
*	87028	015	61.59117	-86.32100	H.JOSENHANS/HUDSON	HUDSON BAY	214.00	219	CORE	TRIGGER WEIGHT	147.0
*	87028	016	62.69133	-87.73283	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	219	WATER	CTD	
*	87028	017	62.69233	-87.74033	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	219	GRAB	VANVEEN	
*	87028	018	62.69033	-87.74467	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	219	DRILL	NORDCO	5.0
*	87028	019	62.69033	-87.72917	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	219	CAMERA	UMEL	
*	87028	020	62.69250	-87.73150	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	219	WATER	CTD	
*	87028	021	63.31500	-90.67000	H.JOSENHANS/HUDSON	CHESTERFIELD INLET HUDSON BAY	37.00	220	WATER	CTD	
*	87028	022	62.97533	-89.80567	H.JOSENHANS/HUDSON	HUDSON BAY	128.00	220	WATER	CTD	
*	87028	023	62.97517	-89.80333	H.JOSENHANS/HUDSON	HUDSON BAY	128.00	220	GRAB	DRILL LEG	
*	87028	023	62.97517	-89.80333	H.JOSENHANS/HUDSON	HUDSON BAY	128.00	220	DRILL	ROCK CORE	5.0
*	87028	024	62.97500	-89.80167	H.JOSENHANS/HUDSON	HUDSON BAY	128.00	220	GRAB	DRILL LEG	
*	87028	024	62.97500	-89.80167	H.JOSENHANS/HUDSON	HUDSON BAY	128.00	220	DRILL	ROCK CORE	116.0
*	87028	025	60.62167	-88.16067	H.JOSENHANS/HUDSON	HUDSON BAY	180.00	221	WATER	CTD	
*	87028	026	60.60583	-88.17533	H.JOSENHANS/HUDSON	HUDSON BAY	179.00	221	FAIL	NORDCO	0.0
*	87028	027	60.61500	-88.16250	H.JOSENHANS/HUDSON	HUDSON BAY	180.00	221	CAMERA	UMEL	
*	87028	028	60.60833	-88.18333	H.JOSENHANS/HUDSON	HUDSON BAY	180.00	221	GRAB	VANVEEN	
*	87028	029	60.60667	-88.18667	H.JOSENHANS/HUDSON	HUDSON BAY	180.00	221	CORE	GRAVITY CORE	108.0
*	87028	030	60.19117	-86.82333	H.JOSENHANS/HUDSON	HUDSON BAY	201.00	222	FAIL	ROCK CORE	0.0
*	87028	031	60.18883	-86.83833	H.JOSENHANS/HUDSON	HUDSON BAY	201.00	222	WATER	CTD	
*	87028	032	60.19000	-86.85300	H.JOSENHANS/HUDSON	HUDSON BAY	201.00	222	CAMERA	UMEL	
*	87028	033	60.19583	-86.79117	H.JOSENHANS/HUDSON	HUDSON BAY	199.00	222	GRAB	VANVEEN	
*	87028	034	60.19900	-86.77950	H.JOSENHANS/HUDSON	HUDSON BAY	199.00	222	FAIL	NORDCO	0.0
*	87028	035	60.35783	-86.03267	H.JOSENHANS/HUDSON	HUDSON BAY	183.00	222	CORE	GRAVITY CORE	202.0

# 87028	036	60.35833	-86.03183	H.JOSENHANS/HUDSON	HUDSON BAY	184.00	222	FAIL	NORDCO	0.0
# 87028	037	58.70333	-84.84000	H.JOSENHANS/HUDSON	HUDSON BAY	91.00	223	DRILL	ROCK CORE	18.0
# 87028	038	58.70783	-84.84500	H.JOSENHANS/HUDSON	HUDSON BAY	91.00	223	WATER	CTD	
# 87028	039	58.70800	-84.84917	H.JOSENHANS/HUDSON	HUDSON BAY	91.00	223	GRAB	VANVEEN	
# 87028	040	58.70500	-84.84417	H.JOSENHANS/HUDSON	HUDSON BAY	91.00	223	DRILL	ROCK CORE	8.0
# 87028	041	57.90133	-83.33417	H.JOSENHANS/HUDSON	HUDSON BAY	182.00	224	CORE	TRIGGER WEIGHT	82.0
# 87028	041	57.90133	-83.33417	H.JOSENHANS/HUDSON	HUDSON BAY	182.00	224	CORE	LCF	280.0
# 87028	042	55.27667	-77.82333	H.JOSENHANS/HUDSON	HUDSON BAY	36.00	225	WATER	CTD	
# 87028	043	55.35233	-78.23733	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	118.00	226	CORE	LCF	490.0
# 87028	043	55.35233	-78.23733	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	118.00	226	CORE	TRIGGER WEIGHT	151.0
# 87028	044	55.32833	-78.21767	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	118.00	226	CAMERA	UMEL	
# 87028	045	55.16067	-78.19167	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	51.00	226	CAMERA	UMEL	
# 87028	046	55.16900	-78.19617	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	45.00	226	CAMERA	UMEL	
# 87028	047	55.16150	-78.21000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	46.00	226	CORE	TRIGGER WEIGHT	132.0
# 87028	047	55.16150	-78.21000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	46.00	226	CORE	LCF	296.0
# 87028	048	55.37633	-77.67817	H.JOSENHANS/HUDSON	MANITOUNUK SOUND HUDSON BAY	59.00	226	CORE	TRIGGER WEIGHT	106.0
# 87028	048	55.37633	-77.67817	H.JOSENHANS/HUDSON	MANITOUNUK SOUND HUDSON BAY	59.00	226	CORE	LCF	218.0
# 87028	049	55.37000	-77.70167	H.JOSENHANS/HUDSON	MANITOUNUK SOUND HUDSON BAY	59.00	226	WATER	CTD	
# 87028	050	55.30167	-77.86233	H.JOSENHANS/HUDSON	MANITOUNUK SOUND HUDSON BAY	68.00	227	CORE	TRIGGER WEIGHT	89.0
# 87028	050	55.30167	-77.86233	H.JOSENHANS/HUDSON	MANITOUNUK SOUND HUDSON BAY	68.00	227	FAIL	LCF	0.0
# 87028	051	55.30250	-77.85767	H.JOSENHANS/HUDSON	MANITOUNUK SOUND HUDSON BAY	73.00	227	CAMERA	UMEL	
# 87028	052	55.27667	-77.82167	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	33.00	227	WATER	CTD	
# 87028	052	55.27667	-77.82167	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	33.00	227	WATER	NISKIN	
# 87028	053	55.28667	-77.80333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	46.00	227	WATER	NISKIN	
# 87028	053	55.28667	-77.80333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	46.00	227	WATER	CTD	
# 87028	054	55.30167	-77.80000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	55.00	227	WATER	CTD	
# 87028	054	55.30167	-77.80000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	55.00	227	WATER	NISKIN	
# 87028	055	55.31500	-77.78500	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	45.00	227	WATER	CTD	
# 87028	055	55.31500	-77.78500	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	45.00	227	WATER	NISKIN	
# 87028	056	55.34300	-77.75500	H.JOSENHANS/HUDSON	GREAT WHALE BANK HUDSON BAY	44.00	227	WATER	NISKIN	

* 87028	056	55.34300	-77.75500	H.JOSENHANS/HUDSON	GREAT WHALE BANK HUDSON BAY	44.00	227	WATER	CTD	
* 87028	057	55.35800	-77.80000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	73.00	227	WATER	CTD	
* 87028	057	55.35800	-77.80000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	73.00	227	WATER	NISKIN	
* 87028	058	55.32233	-77.81000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	66.00	227	WATER	CTD	
* 87028	058	55.32233	-77.81000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	66.00	227	WATER	NISKIN	
* 87028	059	55.29383	-77.82000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	64.00	227	WATER	NISKIN	
* 87028	059	55.29383	-77.82000	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	64.00	227	WATER	CTD	
* 87028	060	55.29033	-77.83667	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	66.00	227	WATER	NISKIN	
* 87028	060	55.29033	-77.83667	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	66.00	227	WATER	CTD	
* 87028	061	55.30700	-77.85333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	68.00	227	WATER	NISKIN	
* 87028	061	55.30700	-77.85333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	68.00	227	WATER	CTD	
* 87028	062	55.30000	-77.91683	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	51.00	227	WATER	NISKIN	
* 87028	062	55.30000	-77.91683	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	51.00	227	WATER	CTD	
* 87028	063	55.29000	-77.87500	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	75.00	227	WATER	CTD	
* 87028	063	55.29000	-77.87500	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	75.00	227	WATER	NISKIN	
* 87028	064	55.28167	-77.84333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	70.00	227	WATER	NISKIN	
* 87028	064	55.28167	-77.84333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	70.00	227	WATER	CTD	
* 87028	065	55.27333	-77.85333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	52.00	227	WATER	CTD	
* 87028	065	55.27333	-77.85333	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	52.00	227	WATER	NISKIN	
* 87028	066	55.26533	-77.88167	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	60.00	227	WATER	CTD	
* 87028	066	55.26533	-77.88167	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	60.00	227	WATER	NISKIN	
* 87028	067	55.25667	-77.91833	H.JOSENHANS/HUDSON	GREAT WHALE RIVER, HUDSON BAY	85.00	227	WATER	CTD	
* 87028	068	55.22767	-78.01850	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	88.00	227	CORE	LCF	596.0
* 87028	068	55.22767	-78.01850	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	88.00	227	CORE	TRIGGER WEIGHT	149.0
* 87028	069	55.47700	-77.96300	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	165.00	227	CORE	LCF	753.0
* 87028	069	55.47700	-77.96300	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	165.00	227	CORE	TRIGGER WEIGHT	139.0
* 87028	070	55.28733	-77.99833	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	64.00	227	CORE	LCF	115.0

# 87028	070	55.28733	-77.99833	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	64.00	227	CORE	TRIGGER WEIGHT	127.0
# 87028	071	55.30183	-77.82183	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	62.00	227	CORE	TRIGGER WEIGHT	133.0
# 87028	071	55.30183	-77.82183	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	62.00	227	CORE	LCF	337.0
# 87028	072	55.28833	-77.99667	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	63.00	227	CAMERA	UMEL	
# 87028	073	55.28667	-77.82500	H.JOSENHANS/HUDSON	GREAT WHALE RIVER,HUDSON BAY	60.00	227	CAMERA	UMEL	
# 87028	074	55.10183	-80.49483	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	228	CORE	TRIGGER WEIGHT	65.0
# 87028	074	55.10183	-80.49483	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	228	CORE	LCF	150.0
# 87028	075	55.10567	-80.50050	H.JOSENHANS/HUDSON	HUDSON BAY	95.00	228	WATER	CTD	
# 87028	076	55.58833	-81.74083	H.JOSENHANS/HUDSON	HUDSON BAY	77.00	230	FAIL	ROCK CORE	0.0
# 87028	077	55.58700	-81.75117	H.JOSENHANS/HUDSON	HUDSON BAY	77.00	230	WATER	CTD	
# 87028	078	55.59083	-81.75433	H.JOSENHANS/HUDSON	HUDSON BAY	77.00	230	GRAB	VANVEEN	
# 87028	079	56.96117	-86.56817	H.JOSENHANS/HUDSON	HUDSON BAY	70.00	231	GRAB	DRILL LEG	
# 87028	079	56.96117	-86.56817	H.JOSENHANS/HUDSON	HUDSON BAY	70.00	231	DRILL	ROCK CORE	8.0
# 87028	080	56.96167	-86.55000	H.JOSENHANS/HUDSON	HUDSON BAY	70.00	231	WATER	CTD	
# 87028	081	56.96583	-86.54750	H.JOSENHANS/HUDSON	HUDSON BAY	71.00	231	CAMERA	UMEL	
# 87028	082	56.96283	-86.53900	H.JOSENHANS/HUDSON	HUDSON BAY	71.00	231	GRAB	DRILL LEG	
# 87028	082	56.96283	-86.53900	H.JOSENHANS/HUDSON	HUDSON BAY	71.00	231	DRILL	ROCK CORE	5.0
# 87028	083	58.20767	-86.78017	H.JOSENHANS/HUDSON	HUDSON BAY	165.00	231	FAIL	ROCK CORE	0.0
# 87028	084	57.97500	-86.77000	H.JOSENHANS/HUDSON	HUDSON BAY	119.00	231	WATER	CTD	
# 87028	085	57.97500	-86.77167	H.JOSENHANS/HUDSON	HUDSON BAY	119.00	231	CAMERA	UMEL	
# 87028	086	57.97500	-86.77833	H.JOSENHANS/HUDSON	HUDSON BAY	119.00	231	FAIL	NORDCO	0.0
# 87028	087	57.97383	-86.77200	H.JOSENHANS/HUDSON	HUDSON BAY	119.00	232	GRAB	VANVEEN	
# 87028	088	58.66067	-90.55867	H.JOSENHANS/HUDSON	HUDSON BAY	113.00	232	FAIL	ROCK CORE	28.0
# 87028	089	58.66000	-90.56000	H.JOSENHANS/HUDSON	HUDSON BAY	113.00	232	CAMERA	UMEL	
# 87028	090	58.65383	-90.28483	H.JOSENHANS/HUDSON	HUDSON BAY	155.00	233	CORE	TRIGGER WEIGHT	139.0
# 87028	090	58.65383	-90.28483	H.JOSENHANS/HUDSON	HUDSON BAY	155.00	233	CORE	LCF	699.0

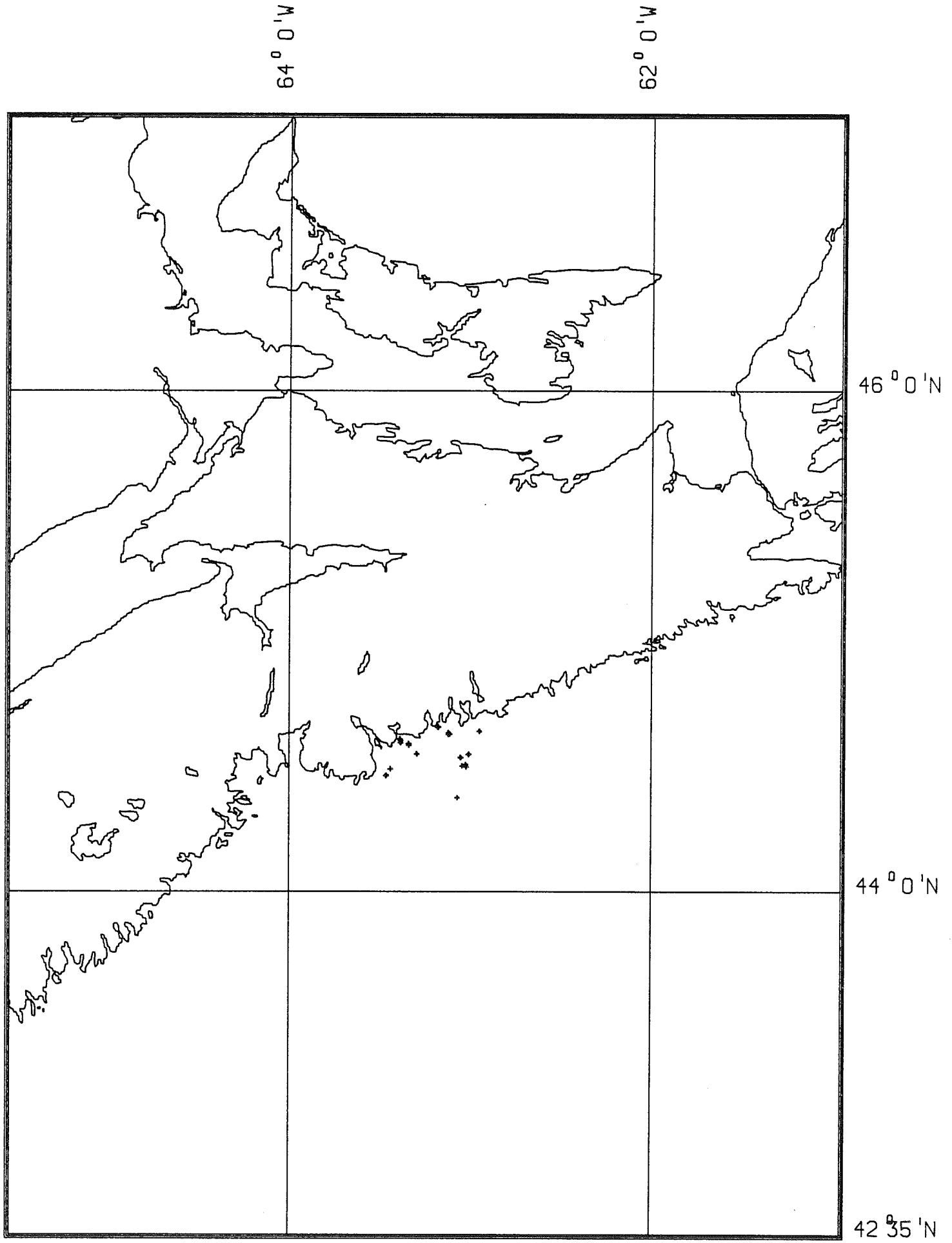
SAMPLE LOCATIONS - 87033.
1.7000000 (MERCATOR, 74N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87033	001	71.66567	-65.84400	POWELL,C./VILKS,G. HUDSON	BAFFIN BAY	2255.00	262	CORE	TRIGGER WEIGHT	69.0
*	87033	001	71.66567	-65.84400	POWELL,C./VILKS,G. HUDSON	BAFFIN BAY	2255.00	262	CORE	LCF	
*	87033	002	70.32700	-64.30700	POWELL,C./VILKS,G. HUDSON	BAFFIN BAY	2056.00	266	CORE	LCF	552.0
*	87033	002	70.32700	-64.30700	POWELL,C./VILKS,G. HUDSON	BAFFIN BAY	2056.00	266	CORE	TRIGGER WEIGHT	138.0
*	87033	003	70.34617	-64.37133	POWELL,C./VILKS,G. HUDSON	BAFFIN BAY	2056.00	266	CORE	TRIGGER WEIGHT	52.0
*	87033	003	70.34617	-64.37133	POWELL,C./VILKS,G. HUDSON	BAFFIN BAY	2056.00	266	CORE	LCF	636.0
*	87033	004	69.28333	-69.25817	POWELL,C./VILKS,G. HUDSON	ITIRBILUNG FIORD	124.00	267	CORE	TRIGGER WEIGHT	5.0
*	87033	004	69.28333	-69.25817	POWELL,C./VILKS,G. HUDSON	ITIRBILUNG FIORD	124.00	267	CORE	LCF	662.0
*	87033	005	69.28750	-69.21667	POWELL,C./VILKS,G. HUDSON	ITIRBILUNG FIORD	139.00	267	CORE	TRIGGER WEIGHT	27.0
*	87033	005	69.28750	-69.21667	POWELL,C./VILKS,G. HUDSON	ITIRBILUNG FIORD	139.00	267	CORE	LCF	608.0
*	87033	006	66.98717	-58.40717	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	1088.00	268	FAIL	TRIGGER WEIGHT	0.0
*	87033	006	66.98717	-58.40717	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	1088.00	268	CORE	LCF	246.0
*	87033	007	64.40017	-57.42000	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	823.00	269	CORE	LCF	304.0
*	87033	007	64.40017	-57.42000	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	823.00	269	CORE	TRIGGER WEIGHT	74.0
*	87033	007	64.41483	-57.36500	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	2115.00	269	GRAB	VAN VEEN	
*	87033	007	64.41483	-57.36500	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	823.00	269	GRAB	SHIPEK	
*	87033	008	62.64850	-53.88450	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	2424.00	270	CORE	LCF	1162.0
*	87033	008	62.64850	-53.88450	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	2424.00	270	CORE	TRIGGER WEIGHT	221.0
*	87033	009	62.51650	-59.44700	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	1437.00	271	CORE	LCF	1122.0
*	87033	009	62.51650	-59.44700	POWELL,C./VILKS,G. HUDSON	DAVIS STRAIT	1437.00	271	CORE	TRIGGER WEIGHT	133.0
*	87033	010	61.79083	-63.89617	POWELL,C./VILKS,G. HUDSON	RESOLUTION BASIN	574.00	272	FAIL	TRIGGER WEIGHT	0.0
*	87033	010	61.79083	-63.89617	POWELL,C./VILKS,G. HUDSON	RESOLUTION BASIN	574.00	272	FAIL	LCF	0.0
*	87033	011	60.93217	-65.41133	POWELL,C./VILKS,G. HUDSON	HUDSON STRAIT	896.00	272	CORE	CORE	90.0
*	87033	011	60.93217	-65.41133	POWELL,C./VILKS,G. HUDSON	HUDSONS STRAIT	896.00	272	CORE	LCF	1244.0
*	87033	012	61.05750	-66.43400	POWELL,C./VILKS,G. HUDSON	HUDSON STRAIT	772.00	273	CORE	TRIGGER WEIGHT	122.0
*	87033	012	61.05750	-66.43400	POWELL,C./VILKS,G. HUDSON	HUDSON STRAIT	772.00	273	CORE	LCF	1519.0
*	87033	013	60.95817	-66.44583	POWELL,C./VILKS,G. HUDSON	HUDSON STRAIT	786.00	273	CORE	LCF	1460.0

# 87033	013	60.95817	-66.44583	POWELL,C./VILKS,G. HUDSON	HUDSON STRAIT	786.00	273	CORE	TRIGGER WEIGHT	135.0
# 87033	015	58.76383	-62.25650	POWELL,C./VILKS,G. HUDSON	SAGLEK	188.00	274	CORE	TRIGGER WEIGHT	132.0
# 87033	015	58.76383	-62.25650	POWELL,C./VILKS,G. HUDSON	SAGLEK	188.00	274	CORE	LCF	1050.0
# 87033	016	56.08250	-58.81050	POWELL,C./VILKS,G. HUDSON	HOPEDALE SADDLE	420.00	275	CORE	LCF	523.0
# 87033	016	56.08250	-58.81050	POWELL,C./VILKS,G. HUDSON	HOPEDALE SADDLE	420.00	275	CORE	TRIGGER WEIGHT	65.0
# 87033	017	54.61650	-56.17667	POWELL,C./VILKS,G. HUDSON	CARTWRIGHT SADDLE	514.00	276	CORE	TRIGGER WEIGHT	135.0
# 87033	017	54.61650	-56.17667	POWELL,C./VILKS,G. HUDSON	CARTWRIGHT SADDLE	514.00	276	CORE	LCF	1381.0
# 87033	018	54.74517	-56.05083	POWELL,C./VILKS,G. HUDSON	CARTWRIGHT SADDLE	460.00	277	CORE	TRIGGER CORE	114.0
# 87033	018	54.74517	-56.05083	POWELL,C./VILKS,G. HUDSON	CARTWRIGHT SADDLE	460.00	277	CORE	LCF	1465.0
# 87033	019	50.90850	-53.26050	POWELL,C./VILKS,G. HUDSON	NEWFOUNDLAND SHELF	453.00	278	CORE	LCF	1506.0
# 87033	019	50.90850	-53.26050	POWELL,C./VILKS,G. HUDSON	NEWFOUNDLAND SHELF	453.00	278	CORE	TRIGGER WEIGHT	125.0
# 87033	020	48.55667	-58.65667	POWELL,C./VILKS,G. HUDSON	BONAVISTA BAY	305.00	279	CORE	LCF	1376.0
# 87033	020	48.55667	-58.65667	POWELL,C./VILKS,G. HUDSON	BONAVISTA BAY	305.00	279	CORE	TRIGGER WEIGHT	114.0

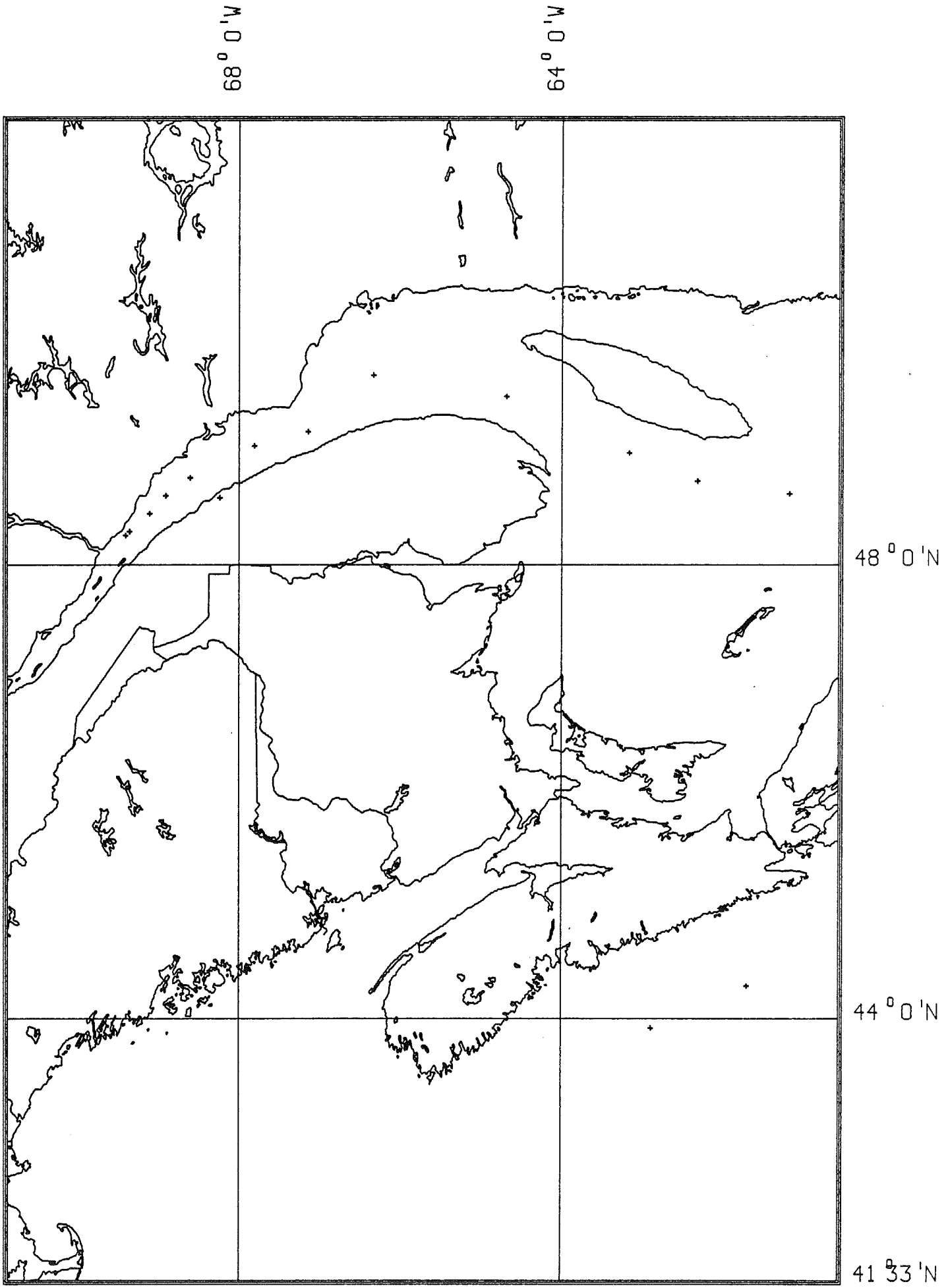
SAMPLE LOCATIONS - 87042.
1:2100000 (MERCATOR, 47).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87042	001	44.61217	-63.38417	FORBES/DAWSON	OFF COLE HARBOUR	12.50	306	CORE	VIBRACORE	72.0
*	87042	002	44.61217	-63.38417	FORBES/DAWSON		12.50	306	CAMERA	CAMERA	
*	87042	003	44.61217	-63.38417	FORBES/DAWSON	OFF COLE HARBOUR	12.50	306	GRAB	VANVEEN	
*	87042	005	44.61750	-63.38800	FORBES/DAWSON	OFF COLE HARBOUR	16.60	306	GRAB	VANVEEN	
*	87042	006	44.61750	-63.38800	FORBES/DAWSON	COLE HARBOUR	16.60	306	CORE	VIBRACORE	73.0
*	87042	008	44.60317	-63.38500	FORBES/DAWSON	COLE HARBOUR	26.00	306	GRAB	VANVEEN	
*	87042	010	44.60317	-63.38500	FORBES/DAWSON	COLE HARBOUR	27.75	306	CORE	VIBRACORE	463.0
*	87042	011	44.60300	-63.38350	FORBES/DAWSON	COLE HARBOUR	22.00	306	FAIL	VANVEEN	
*	87042	012	44.60300	-63.38350	FORBES/DAWSON	COLE HARBOUR	22.00	306	FAIL	VANVEEN	
*	87042	014	44.63783	-63.11367	FORBES/DAWSON	POINT 0, MARTINIQUE BEACH	26.00	307	GRAB	VANVEEN	
*	87042	016	44.54417	-63.05567	FORBES/DAWSON	POINT AQ, INNER SCOTIAN SHELF	53.00	307	FAIL	VANVEEN	
*	87042	017	44.54267	-63.05200	FORBES/DAWSON	POINT AQ, INNER SCOTIAN SHELF	59.00	307	FAIL	VANVEEN	
*	87042	018	44.50983	-63.04517	FORBES/DAWSON		92.00	307	GRAB	VANVEEN	
*	87042	019	44.51500	-63.02550	FORBES/DAWSON		76.00	307	GRAB	VANVEEN	
*	87042	020	44.50567	-63.02400	FORBES/DAWSON		74.00	307	GRAB	VANVEEN	
*	87042	021	44.55533	-63.01117	FORBES/DAWSON		64.00	307	FAIL	VANVEEN	
*	87042	022	44.55633	-63.00933	FORBES/DAWSON		64.00	307	FAIL	VANVEEN	
*	87042	023	44.66583	-63.18017	FORBES/DAWSON	OFF PETPESWICK	17.00	308	GRAB	VANVEEN	
*	87042	024	44.66700	-63.17933	FORBES/DAWSON	OFF PETPESWICK	16.75	308	CAMERA	CAMERA	
*	87042	025	44.66700	-63.17933	FORBES/DAWSON	OFF PETPESWICK	16.75	308	GRAB	VANVEEN	
*	87042	026	44.66783	-63.18033	FORBES/DAWSON	OFF PETPESWICK	16.75	308	CORE	VIBRACORE	147.0
*	87042	027	44.66517	-63.17783	FORBES/DAWSON	OFF PETPESWICK	19.50	308	GRAB	VANVEEN	
*	87042	028	44.66533	-63.17750	FORBES/DAWSON	OFF PETPESWICK	19.00	308	CORE	VIBRACORE	52.0
*	87042	029	44.66617	-63.18017	FORBES/DAWSON	OFF PETPESWICK	18.00	308	GRAB	VANVEEN	
*	87042	030	44.66617	-63.18033	FORBES/DAWSON	OFF PETPESWICK	18.00	308	CORE	VIBRACORE	428.0
*	87042	031	44.64300	-63.12083	FORBES/DAWSON	OFF MARTINIQUE BEACH	30.00	309	GRAB	VANVEEN	
*	87042	033	44.64300	-63.12083	FORBES/DAWSON	OFF MARTINIQUE BEACH	30.00	309	CORE	VIBRACORE	434.0
*	87042	034	44.47200	-63.46200	FORBES/DAWSON	OFF HALIFAX HARBOUR	51.00	309	GRAB	VANVEEN	
*	87042	035	44.47050	-63.46367	FORBES/DAWSON	OFF HALIFAX HARBOUR	55.00	309	GRAB	VANVEEN	
*	87042	036	44.47050	-63.46333	FORBES/DAWSON	OFF HALIFAX HARBOUR	55.00	309	GRAB	IKU	
*	87042	037	44.49717	-63.44050	FORBES/DAWSON	OFF HALIFAX HARBOUR	53.00	309	GRAB	IKU	
*	87042	038	44.64983	-62.95033	FORBES/DAWSON	OFF CLAM HARBOUR	39.50	310	GRAB	VANVEEN	
*	87042	039	44.64983	-62.95050	FORBES/DAWSON	OFF CLAM BAY	39.50	310	CORE	VIBRACORE	565.0
*	87042	040	44.63650	-63.12200	FORBES/DAWSON	OFF MARTINIQUE BEACH	28.00	310	GRAB	IKU	
*	87042	041	44.55717	-63.29450	FORBES/DAWSON	OFF THREE FATHOM HARBOUR	49.00	310	GRAB	VANVEEN	
*	87042	042	44.55717	-63.29467	FORBES/DAWSON	OFF THREE FATHOM HARBOUR	49.00	310	GRAB	VANVEEN	
*	87042	043	44.59267	-63.33833	FORBES/DAWSON	OFF LAWRENCETOWN BEACH	27.75	310	FAIL	VANVEEN	

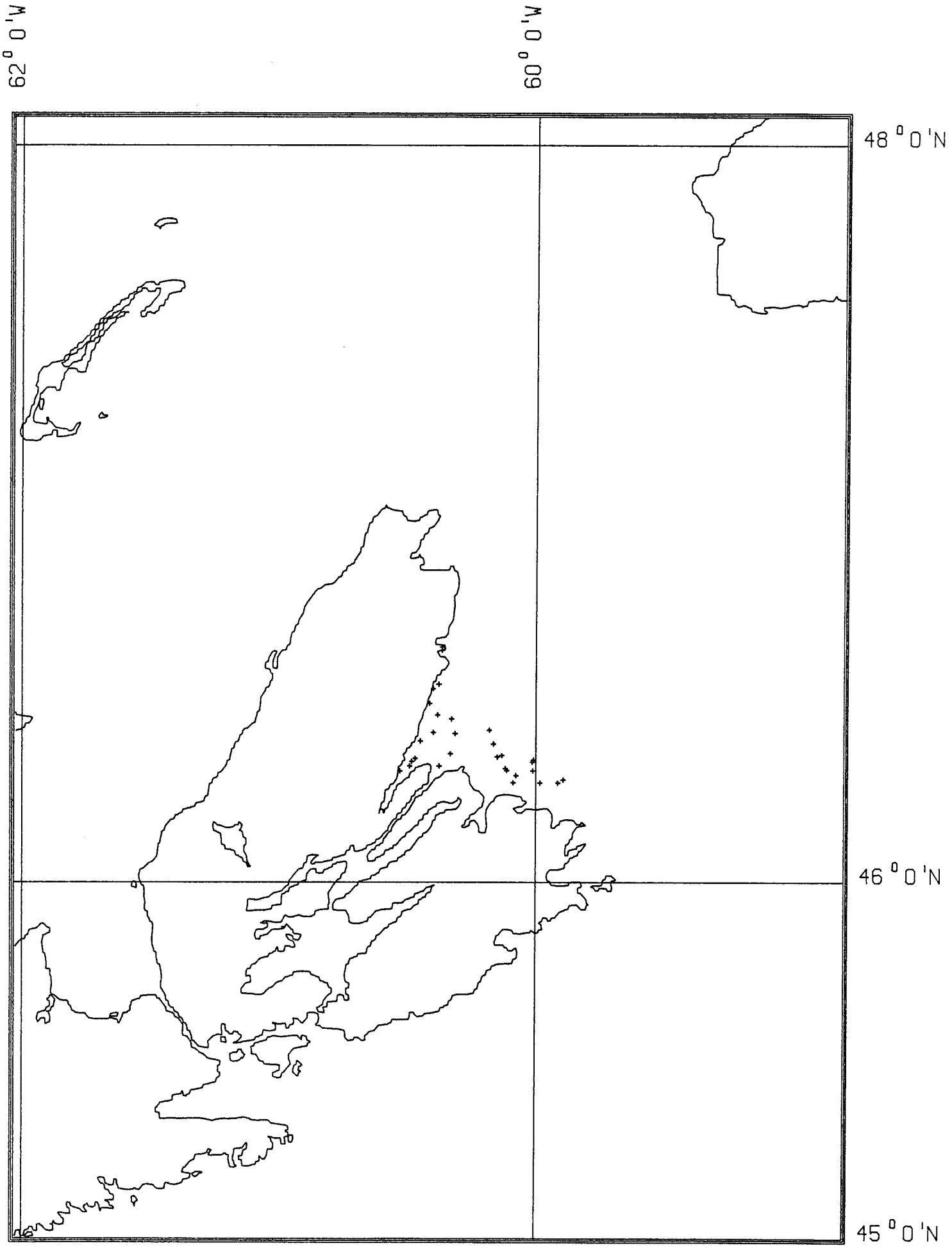
* 87042	044	44.59933	-63.33967	FORBES/DAWSON	OFF LAWRENCETOWN BEACH	27.00	310	GRAB	VANVEEN	
* 87042	045	44.59933	-63.33883	FORBES/DAWSON	OFF LAWRENCETOWN BEACH	23.00	310	CORE	VIBRACORE	91.0
* 87042	046	43.98867	-59.89733	FORBES/DAWSON	SABLE ISLAND	30.50	312	GRAB	VANVEEN	
* 87042	047	43.98833	-59.93067	FORBES/DAWSON	OFF SABLE ISLAND	30.50	312	CORE	VIBRACORE	210.0
* 87042	048	44.99267	-59.89600	FORBES/DAWSON	SABLE ISLAND	33.00	313	GRAB	VANVEEN	
* 87042	049	43.99333	-59.89583	FORBES/DAWSON	SABLE ISLAND	33.00	313	CORE	VIBRACORE	289.0
* 87042	050	44.38167	-63.07233	FORBES/DAWSON	OFF JEDORE HEAD	140.00	313	CORE	GRAVITY	380.0

SHIPLE LOCATIONS - 8/045.
1:5000000 (MERCATOR, 45N).



CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
* 87045	005	48.70667	-62.31667	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	384.00	333	CORE	BOX	50.0
* 87045	005	48.70833	-62.31667	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	384.00	333	CORE	LEHIGH	220.0
* 87045	006	48.94000	-63.16500	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	400.00	333	CORE	BOX	50.0
* 87045	010	49.40833	-64.68667	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	380.00	334	CORE	BOX	50.0
* 87045	016	49.58333	-66.33333	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	330.00	335	CORE	BOX	50.0
* 87045	017	49.11667	-67.14333	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	325.00	335	CORE	BOX	50.0
* 87045	018	49.00000	-67.80833	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	290.00	335	CORE	BOX	50.0
* 87045	019	48.56667	-68.23333	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	330.00	336	CORE	BOX	50.0
* 87045	019	48.56667	-68.23333	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	330.00	336	CORE	LEHIGH	205.0
* 87045	020	48.73333	-68.60000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	350.00	336	CORE	BOX	50.0
* 87045	020	48.73333	-68.60000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	350.00	336	CORE	LEHIGH	95.0
* 87045	021	48.58333	-68.90000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	325.00	336	CORE	BOX	50.0
* 87045	021	48.58333	-68.90000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	325.00	336	CORE	LEHIGH	225.0
* 87045	022	48.43333	-69.10000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	310.00	336	CORE	BOX	50.0
* 87045	022	48.43333	-69.10000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	310.00	337	CORE	LEHIGH	260.0
* 87045	023	48.28333	-69.35000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	330.00	336	CORE	BOX	50.0
* 87045	023	48.28333	-69.35000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	330.00	337	CORE	LEHIGH	145.0
* 87045	023	48.28333	-69.35000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	330.00	337	CORE	LEHIGH	115.0
* 87045	024	48.25000	-69.40000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	320.00	337	CORE	LEHIGH	105.0
* 87045	035	48.60000	-61.18333	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	393.00	339	CORE	BOX	50.0
* 87045	051	44.30000	-61.70000	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	265.00	342	CORE	BOX	50.0
* 87045	051	43.91667	-62.88333	SMITH,J./DAWSON	GULF OF ST. LAWRENCE	265.00	342	CORE	LEHIGH	130.0

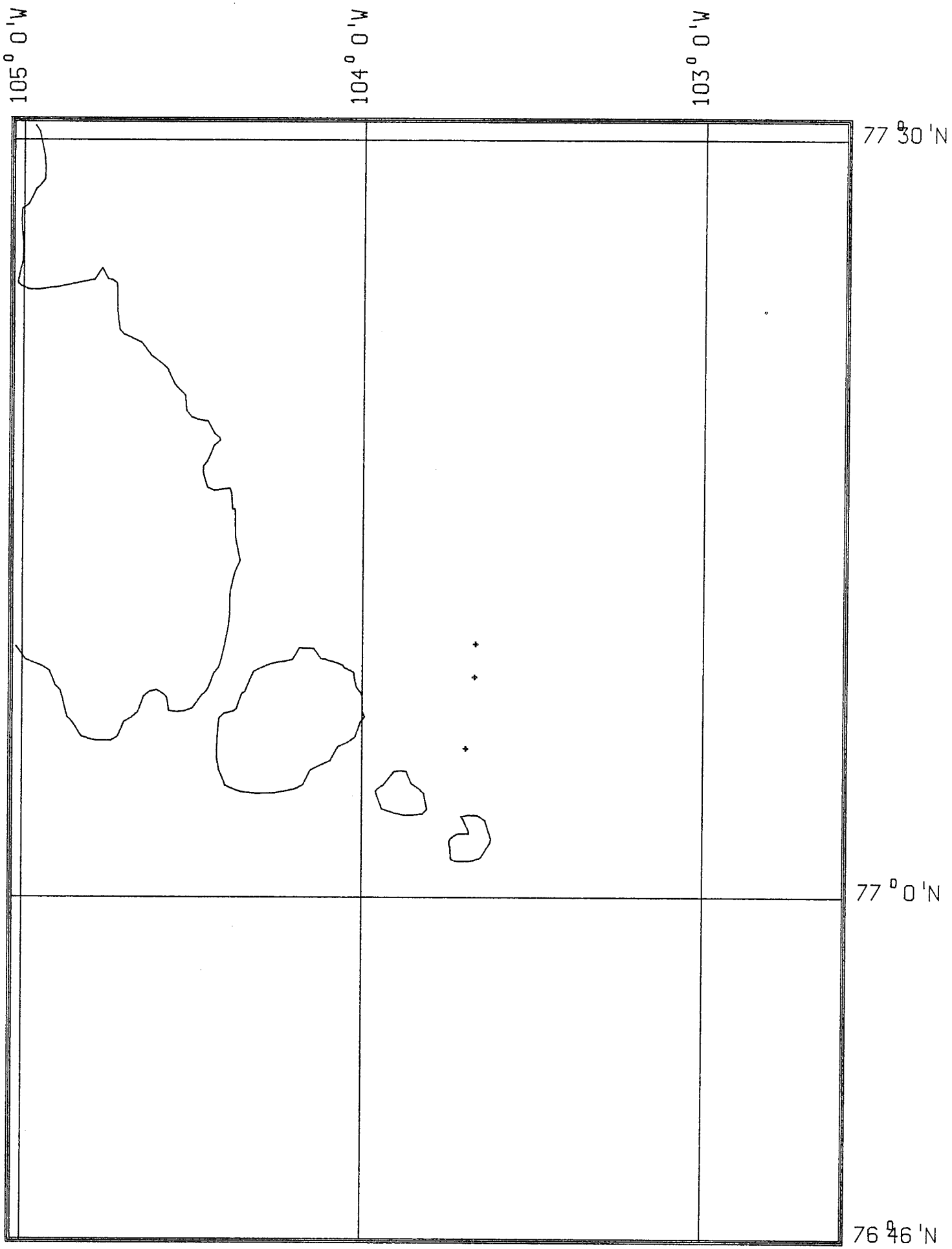
SAMPLE LOCATIONS - 8/84/.
1:1500000 (MERCATOR, 46N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87047	001	46.32117	-60.37517	MILLER, R.O./FADER, G. NAVICULA	SYDNEY INSHORE	8.00	165	GRAB	VAN VEEN	
*	87047	002	46.35467	-60.33133	MILLER, R.O./FADER, G. NAVICULA	SYDNEY INSHORE	15.00	165	GRAB	VAN VEEN	
*	87047	003	46.41950	-60.18033	MILLER, R.O./FADER, G. NAVICULA	SYDNEY INSHORE	66.00	165	GRAB	VAN VEEN	
*	87047	004	46.34633	-60.14850	MILLER, R.O./FADER, G. NAVICULA	SYDNEY INSHORE	40.00	165	GRAB	VAN VEEN	
*	87047	005	46.31400	-60.11750	MILLER, R.O./FADER, G. NAVICULA	SYDNEY INSHORE	32.00	165	GRAB	VAN VEEN	
*	87047	006	46.34217	-60.46917	MILLER, R.O./FADER, G. NAVICULA	ST. ANNE'S BAY	26.00	166	GRAB	VAN VEEN	
*	87047	007	46.33317	-60.48283	MILLER, R.O./FADER, G. NAVICULA	ST. ANNE'S BAY	24.00	166	GRAB	VAN VEEN	
*	87047	008	46.32117	-60.49033	MILLER, R.O./FADER, G. NAVICULA	ST. ANNE'S BAY	18.00	166	GRAB	VAN VEEN	
*	87047	009	46.30700	-60.52917	MILLER, R.O./FADER, G. NAVICULA	ST. ANNE'S BAY	10.00	166	GRAB	VAN VEEN	
*	87047	010	46.41317	-60.39850	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON INSHORE	32.00	168	GRAB	VAN VEEN	
*	87047	011	46.38933	-60.44850	MILLER, R.O./FADER, G. NAVICULA	ST. ANNE'S BAY	18.00	169	GRAB	VAN VEEN	
*	87047	012	46.46150	-60.38150	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON SHELF (NEAR SHORE)	45.00	169	GRAB	VAN VEEN	
*	87047	013	46.49317	-60.41350	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON SHELF (INSHORE)	24.00	169	GRAB	VAN VEEN	
*	87047	014	46.53367	-60.39917	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON INSHORE	18.00	169	GRAB	VAN VEEN	
*	87047	015	46.54550	-60.37700	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON INSHORE	38.00	169	GRAB	VAN VEEN	
*	87047	016	46.64733	-60.36450	MILLER, R.O./FADER, G. NAVICULA	INGONISH BAY	19.00	169	GRAB	VAN VEEN	
*	87047	017	46.63833	-60.36500	MILLER, R.O./FADER, G. NAVICULA	INGONISH BAY	19.00	169	GRAB	VAN VEEN	
*	87047	018	46.41017	-60.31300	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	49.00	170	GRAB	VAN VEEN	
*	87047	019	46.45050	-60.32700	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	58.00	170	GRAB	VAN VEEN	
*	87047	020	46.35033	-60.13150	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	40.00	170	GRAB	VAN VEEN	
*	87047	021	46.38150	-60.16383	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	54.00	170	GRAB	VAN VEEN	
*	87047	022	46.30867	-60.11167	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	36.00	172	GRAB	VAN VEEN	
*	87047	023	46.27567	-60.08733	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	28.00	172	GRAB	VAN VEEN	
*	87047	024	46.29450	-60.07650	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	35.00	172	GRAB	VAN VEEN	
*	87047	025	46.33167	-60.01417	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	42.00	172	GRAB	VAN VEEN	
*	87047	026	46.33767	-60.00900	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	38.00	172	GRAB	VAN VEEN	
*	87047	027	46.30767	-60.01183	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	37.00	172	GRAB	VAN VEEN	

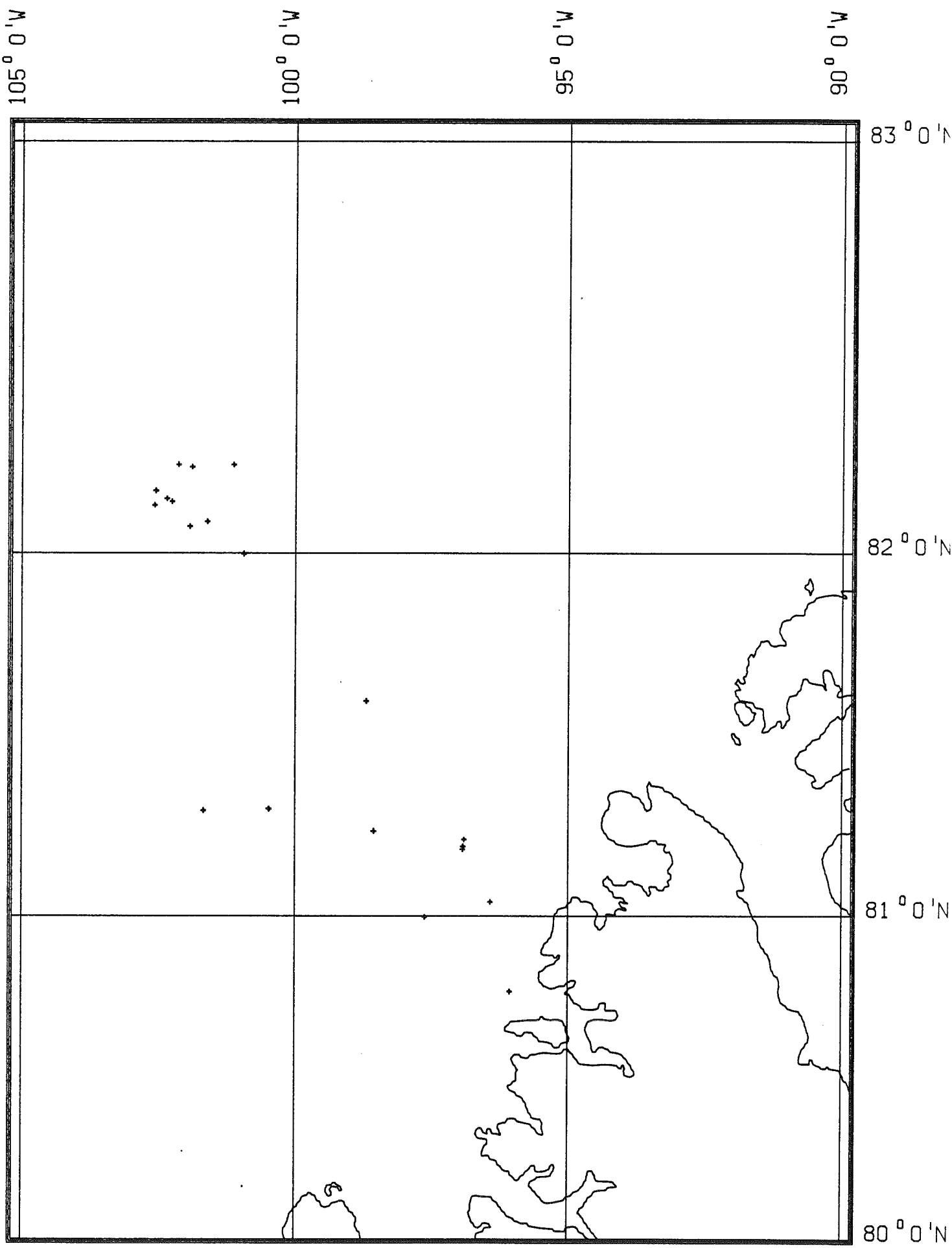
* 87047	028	46.27450	-59.98417	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	40.00	172	GRAB	VAN VEEN
* 87047	029	46.27467	-59.91400	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	47.00	172	GRAB	VAN VEEN
* 87047	030	46.28300	-59.89417	MILLER, R.O./FADER, G. NAVICULA	CAPE BRETON NEARSHORE	54.00	172	GRAB	VAN VEEN

SAMPLE LOCATIONS - 87100.
1:370000 (MERCATOR, 77N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87100	001	77.16967	-103.66730	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNEL	39.00	202	GRAB	DIETZ LAFONDE	
*	87100	002	77.16967	-103.66730	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNELS	39.00	202	CORE	GRAVITY	53.0
*	87100	003	77.16967	-103.66730	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND	39.00	202	CORE	GRAVITY	29.0
*	87100	004	77.16967	-103.66730	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNELS	39.00	202	CAMERA	EDGERTON	
*	87100	005	77.10000	-103.69520	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNELS	14.00	203	GRAB	DIETZ LAFONDE	
*	87100	006	77.10000	-103.69520	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNELS	14.00	203	CORE	GRAVITY	
*	87100	007	77.14783	-103.66970	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNELS	45.00	206	GRAB	DIETZ LAFONDE	
*	87100	008	77.14783	-103.66970	SONNICHSEN,G./MACLEAN,B. /ARCTIC LEADS	ARCTIC ISLAND CHANNELS	45.00	206	CORE	GRAVITY	109.0

SAMPLE LOCATIONS - 87200.
1:1250000 (MERCATOR, 83N).

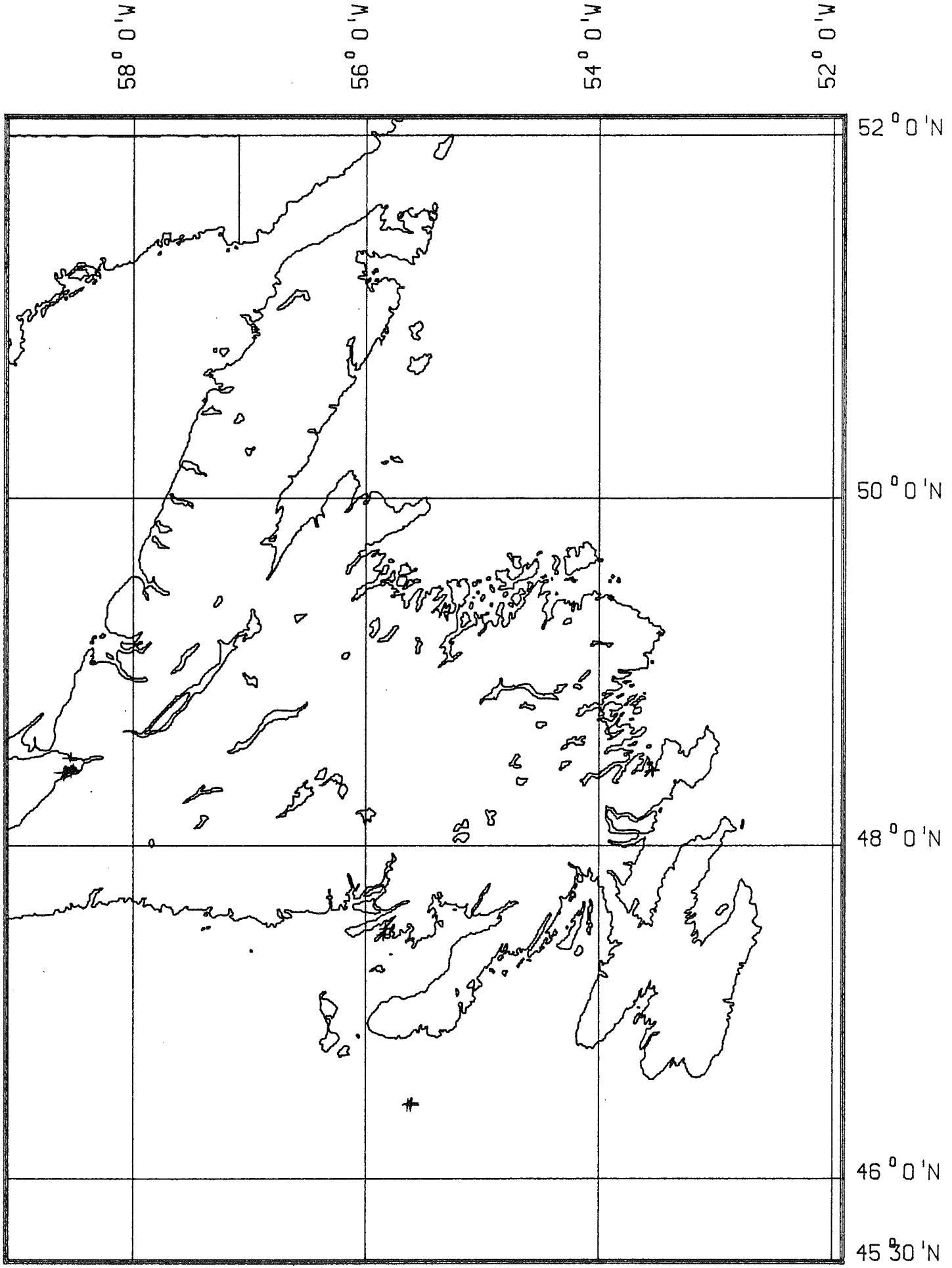


87200PI

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87200	001	81.24467	-98.55550	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	280.00	114	CORE	GRAVITY	56.0
*	87200	001	81.24467	-98.55550	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	280.00	114	CAMERA	FENERTY	
*	87200	001	81.24467	-98.55550	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	280.00	114	GRAB	DIETZ LAFONDE	
*	87200	002	81.19267	-96.93333	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	250.00	115	GRAB	SHIPEK	
*	87200	003	81.20133	-96.92550	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	250.00	115	CORE	GRAVITY	23.0
*	87200	004	81.20133	-96.92550	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	250.00	115	CORE	GRAVITY	18.0
*	87200	005	81.30767	-100.47500	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, SVERDRUP CHANNEL	638.00	115	CAMERA	FENERTY	
*	87200	005	81.30767	-100.47500	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, SVERDROP TROUGH	638.00	115	CORE	GRAVITY	40.0
*	87200	005	81.30767	-100.47500	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, SVERDROP TROUGH	638.00	115	GRAB	DIETZ LAFONDE	
*	87200	006	81.30300	-101.66967	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, SVERDROP TROUGH	687.00	115	GRAB	DIETZ LAFONDE	
*	87200	006	81.30300	-101.66967	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, SVERDROP TROUGH	687.00	115	CORE	GRAVITY	47.0
*	87200	007	81.20117	-96.92433	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	249.00	116	HEAT FLOW	HEAT FLOW PROBE	
*	87200	008	82.08133	-101.61083	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, NANSEN TROUGH	674.00	116	GRAB	DIETZ LAFONDE	
*	87200	008	82.08133	-101.61083	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF, NANSEN TROUGH	674.00	116	CORE	GRAVITY	32.0
*	87200	009	82.16033	-102.56450	MUDIE,P./ICE ISLAND	AXEL HEIBERG SLOPE	150.00	117	GRAB	DIETZ LAFONDE	
*	87200	009	82.16033	-102.56450	MUDIE,P./ICE ISLAND	AXEL HEIBERG SLOPE	150.00	117	CORE	GRAVITY	87.0
*	87200	009A	82.16033	-102.56450	MUDIE,P./ICE ISLAND	AXEL HEIBERG SLOPE	150.00		CORE	GRAVITY	8.0
*	87200	010	81.22117	-96.90817	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	223.00	117	CORE	GRAVITY	21.0
*	87200	011	82.06933	-101.93567	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	693.00	118	CORE	GRAVITY	62.0
*	87200	011	82.06933	-101.93567	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	693.00	118	GRAB	DIETZ LAFONDE	
*	87200	012	82.14017	-102.35883	MUDIE,P./ICE ISLAND	AXEL HEIBERG SLOPE	847.00	119	GRAB	DIETZ LAFONDE	
*	87200	013	82.12317	-102.58267	MUDIE,P./ICE ISLAND	AXEL HEIBERG SLOPE	025.00	119	GRAB	DIETZ LAFONDE	
*	87200	014	82.13267	-102.26517	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	712.00	119	GRAB	DIETZ LAFONDE	
*	87200	015	82.22617	-101.12883	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	654.00	120	GRAB	DIETZ LAFONDE	

* 87200	016	82.22033	-101.89267	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	855.00	120	GRAB	DIETZ LAFONDE	
* 87200	016A	82.22617	-102.14567	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	055.00	120	GRAB	DIETZ LAFONDE	
* 87200	017	81.99817	-100.94183	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	715.00	120	CORE	GRAVITY	11.0
* 87200	017	81.99817	-100.94183	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	715.00	120	GRAB	DIETZ LAFONDE	
* 87200	017	81.99817	-100.94183	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	715.00	120	CAMERA	FENERTY	
* 87200	018	81.60667	-98.69667	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	547.00	121	GRAB	DIETZ LAFONDE	
* 87200	018	81.60667	-98.69667	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	547.00	121	CORE	GRAVITY	78.0
* 87200	019	80.99700	-97.62217	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	297.00	121	GRAB	DIETZ LAFONDE	
* 87200	019	80.99700	-97.62217	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	297.00	121	CORE	GRAVITY	48.0
* 87200	020	80.77667	-96.06333	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	300.00	122	GRAB	DIETZ LAFONDE	
* 87200	020	80.77667	-96.06333	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	300.00	122	CORE	GRAVITY	82.0
* 87200	021	81.04083	-96.42783	MUDIE,P./ICE ISLAND	AXEL HEIBERG SHELF	110.00	122	GRAB	DIETZ LAFONDE	

SAMPLE LOCATIONS - 87302.
1:3000000 (MERCATOR, 52N).



87702PI

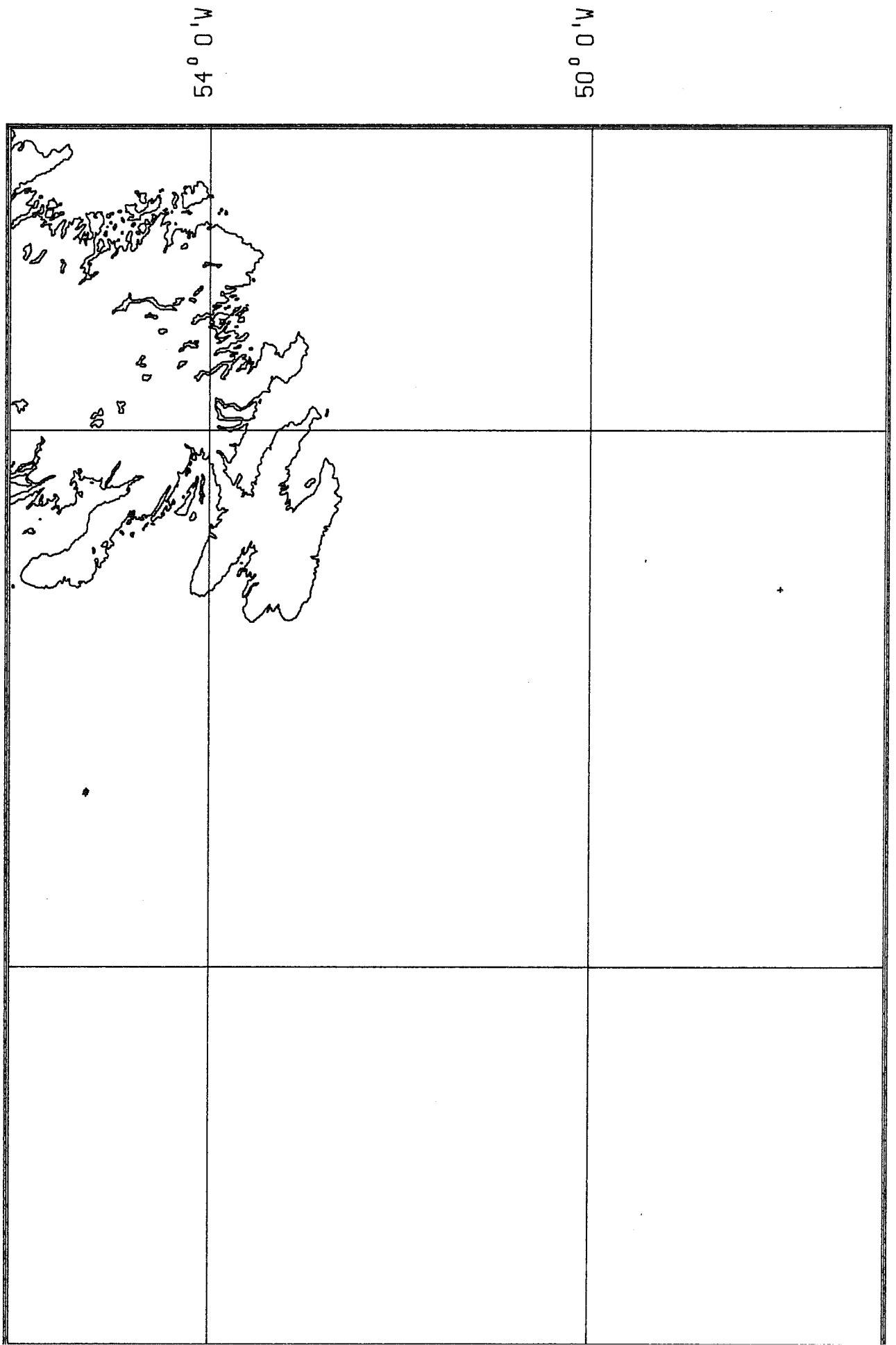
	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87302	001	46.45917	-55.62417	J. SHAW/D. FORBES NO SHIP	COOMB'S COVE, GREAT BAY DE L'EAU	0.44	256	CORE	HILLER PEAT SAMPLER	160.0
*	87302	002	46.45667	-55.61500	J. SHAW/D. FORBES NO SHIP	ST. JOHN'S BAY, NFLD.	1.56	256	GRAB	HAND	
*	87302	003	46.45583	-55.61100	J. SHAW/D. FORBES NO SHIP	ST. JOHN'S BAY, NFLD.	1.79	256	GRAB	HAND	
*	87302	004	46.45583	-55.61100	J. SHAW/D. FORBES NO SHIP	ST. JOHN'S BAY, NFLD	1.16	256	GRAB	HAND	
*	87302	005	46.45417	-55.60950	J. SHAW/D. FORBES NO SHIP	ST. JOHN'S BAY, NFLD	1.46	256	GRAB	HAND	
*	87302	006	46.45683	-55.60967	J. SHAW/D. FORBES NO SHIP	ST. JOHN'S BAY, NFLD.	1.39	256	CORE	HILLER PEAT SAMPLER	100.0
*	87302	007	47.47650	-55.84300	J. SHAW/D. FORBES NO SHIP	DEADMAN'S BIGHT , FORTUNE BAY	24.50	257	GRAB	HAND	
*	87302	008	47.50917	-55.82650	J. SHAW/D. FORBES NO SHIP	GREAT HARBOUR BIGHT, CONNAIGRE BAY	1.21	257	GRAB	HAND	
*	87302	009	47.50917	-55.82617	J. SHAW/D. FORBES NO SHIP	GREAT HARBOUR BIGHT, CONNAIGRE BAY	1.30	257	GRAB	HAND	
*	87302	010	47.51000	-55.82667	J. SHAW/D. FORBES NO SHIP	GREAT HARBOUR BIGHT, CONNAIGRE BAY	0.44	257	GRAB	HAND	
*	87302	011	47.51000	-55.82667	J. SHAW/D. FORBES NO SHIP	GREAT HARBOUR BIGHT, CONNAIGRE BAY	0.62	257	GRAB	HAND	
*	87302	012	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.91	258	GRAB	HAND	
*	87302	013	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.91	258	GRAB	HAND	
*	87302	014	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.92	258	GRAB	HAND	
*	87302	015	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.92	258	GRAB	HAND	
*	87302	016	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.82	258	GRAB	HAND	
*	87302	017	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.82	258	GRAB	HAND	
*	87302	018	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.82	258	GRAB	HAND	
*	87302	019	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.88	258	GRAB	HAND	
*	87302	020	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.43	258	GRAB	HAND	
*	87302	021	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.12	258	GRAB	HAND	
*	87302	022	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.60	258	GRAB	HAND	
*	87302	023	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.85	258	GRAB	HAND	
*	87302	024	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.43	258	GRAB	HAND	
*	87302	025	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.62	258	GRAB	HAND	

* 87302	026	49.43567	-53.90667	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.50	259	GRAB	HAND	
* 87302	027	49.43567	-53.90667	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.25	259	GRAB	HAND	
* 87302	028	49.43567	-53.90667	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.10	259	GRAB	HAND	
* 87302	029	49.43567	-53.90667	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.65	259	GRAB	HAND	
* 87302	030	49.43567	-53.90667	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.45	259	GRAB	HAND	
* 87302	031	49.43567	-53.90667	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.15	259	GRAB	HAND	
* 87302	033	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.82	259	GRAB	HAND	
* 87302	034	49.43500	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	2.67	259	GRAB	HAND	
* 87302	035	49.43417	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	0.00	259	GRAB	HAND	
* 87302	036	49.43333	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	3.12	259	GRAB	HAND	
* 87302	037	49.43333	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	2.96	259	GRAB	HAND	
* 87302	038	49.43167	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.71	260	GRAB	HAND	
* 87302	039	49.43000	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	1.05	260	GRAB	HAND	
* 87302	040	49.23333	-53.48333	J. SHAW/D. FORBES NO SHIP	CAPE FREELS, NFLD.	4.00	260	GRAB	HAND	
* 87302	041	49.23333	-53.48333	J. SHAW/D. FORBES NO SHIP	CAPE FREELS, NFLD	2.90	260	GRAB	HAND	
* 87302	042	49.23333	-53.48333	J. SHAW/D. FORBES NO SHIP	CAPE FREELS, NFLD	3.40	260	GRAB	HAND	
* 87302	043	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	2.41	262	GRAB	HAND	
* 87302	044	49.43567	-53.90000	J. SHAW/D. FORBES NO SHIP	DOTING COVE, NFLD	2.70	262	GRAB	HAND	
* 87302	045	50.54700	-57.39100	J. SHAW/D. FORBES NO SHIP	LITTLE BROOK POND, NFLD	3.22	263	GRAB	HAND	
* 87302	046	50.54700	-57.39100	J. SHAW/D. FORBES NO SHIP	LITTLE BROOK POND, NFLD	3.67	263	GRAB	HAND	
* 87302	047	50.54700	-57.39100	J. SHAW/D. FORBES NO SHIP	LITTLE BROOK POND, NFLD	3.47	263	GRAB	HAND	
* 87302	049	50.89583	-56.96667	J. SHAW/D. FORBES NO SHIP	SQUID COVE, NFLD	1.50	263	GRAB	HAND	
* 87302	050	50.94050	-56.94667	J. SHAW/D. FORBES NO SHIP	MOSQUITO COVE	0.13	264	CORE	HILLER PEAT SAMPLER	200.0
* 87302	051	50.94050	-56.94667	J. SHAW/D. FORBES NO SHIP	MOSQUITO COVE, NFLD	0.22	264	GRAB	HAND	
* 87302	052	50.94050	-56.94667	J. SHAW/D. FORBES NO SHIP	MOSQUITO COVE, NFLD	0.52	264	GRAB	HAND	
* 87302	053	50.94050	-56.94667	J. SHAW/D. FORBES NO SHIP	MOSQUITO COVE, NFLD	0.97	264	GRAB	HAND	
* 87302	054	50.94200	-56.94500	J. SHAW/D. FORBES NO SHIP	MOSQUITO COVE, NFLD.	0.84	264	GRAB	HAND	

* 87302	055	50.68900	-57.34383	J. SHAW/D. FORBES NO SHIP	PORT AUX CHOIX, NFLD.	4.22	264	GRAB	HAND
* 87302	056	50.68900	-57.34383	J. SHAW/D. FORBES NO SHIP	PORT AUX CHOIX, NFLD	4.72	264	GRAB	HAND
* 87302	057	50.68900	-57.34383	J. SHAW/D. FORBES NO SHIP	PORT AUX CHOIX, NFLD	4.72	264	GRAB	HAND
* 87302	058	50.68900	-57.34383	J. SHAW/D. FORBES NO SHIP	PORT AUX CHOIX, NFLD	5.04	264	GRAB	HAND
* 87302	059	50.68900	-57.34383	J. SHAW/D. FORBES NO SHIP	PORT AUX CHOIX, NFLD	5.23	264	GRAB	HAND
* 87302	060	50.68900	-57.34383	J. SHAW/D. FORBES NO SHIP	PORT AUX CHOIX	4.42	264	GRAB	HAND
* 87302	061	48.44467	-58.54217	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	1.30	265	GRAB	HAND
* 87302	062	48.44500	-58.54183	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	1.30	265	GRAB	HAND
* 87302	063	48.44500	-58.54183	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	0.71	265	GRAB	HAND
* 87302	064	48.44500	-58.54183	J. SHAW/D. FORBES NO SHIP	SANDY PT. FLAT ISLAND	0.31	265	GRAB	HAND
* 87302	065	48.44500	-58.54183	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	0.41	265	GRAB	HAND
* 87302	066	48.44500	-53.54183	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	2.05	265	GRAB	HAND
* 87302	067	48.44500	-53.54183	J.SHAW/D.FORBES NO SHIP	SANDY PT. FLAT ISLAND	1.99	265	GRAB	HAND
* 87302	068	48.44500	-53.54183	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	1.82	265	GRAB	HAND
* 87302	069	48.45417	-58.51450	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-2.20	266	GRAB	PONAR
* 87302	070	48.45650	-58.51500	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-3.70	266	GRAB	PONAR
* 87302	071	48.45833	-58.51667	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-9.00	266	GRAB	PONAR
* 87302	072	48.45100	-58.52700	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-2.40	266	GRAB	PONAR
* 87302	073	48.45600	-58.53000	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-9.20	266	GRAB	PONAR
* 87302	074	48.44883	-58.53667	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-3.10	266	GRAB	PONAR
* 87302	075	48.44233	-58.55167	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-3.10	266	GRAB	PONAR
* 87302	076	48.44433	-58.55400	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-5.50	266	GRAB	PONAR
* 87302	077	48.44700	-58.55583	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	-7.60	266	GRAB	PONAR
* 87302	078	48.45233	-58.51350	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	1.96	267	GRAB	HAND
* 87302	079	48.44900	-58.52583	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	1.46	267	GRAB	HAND
* 87302	080	48.45000	-58.52617	J. SHAW/D. FORBES NO SHIP	SANDY PT, FLAT ISLAND	0.71	267	GRAB	HAND

* 87302	081	48.51133	-58.54000	J. SHAW/D. FORBES NO SHIP	STEPHENVILLE, NFLD.	1.27	267	GRAB	HAND
* 87302	082	48.51133	-58.54000	J. SHAW/D. FORBES NO SHIP	STEPHENVILLE, NFLD.	1.47	267	GRAB	HAND
* 87302	083	48.51133	-58.54000	J. SHAW/D. FORBES NO SHIP	STEPHENVILLE, NFLD.	1.47	267	GRAB	HAND
* 87302	084	48.51133	-58.54000	J. SHAW/D. FORBES NO SHIP	STEPHENVILLE, NFLD.	1.17	267	GRAB	HAND
* 87302	085	48.51133	-58.54000	J. SHAW/D. FORBES NO SHIP	STEPHENVILLE, NFLD.	1.97	267	GRAB	HAND

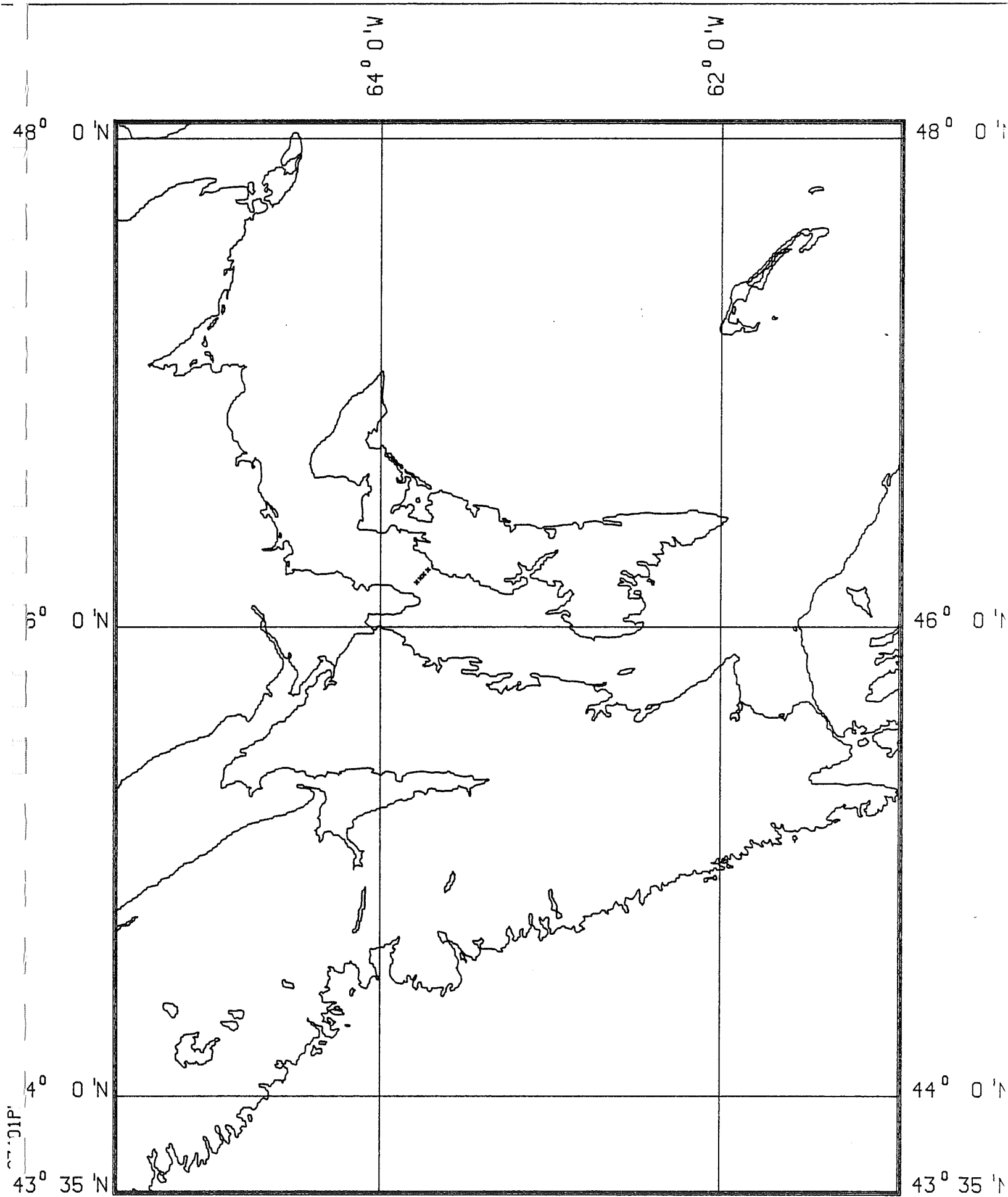
SAMPLE LOCATIONS - 87400.
1:4050000 (MERCATOR, 50N).



JOPL

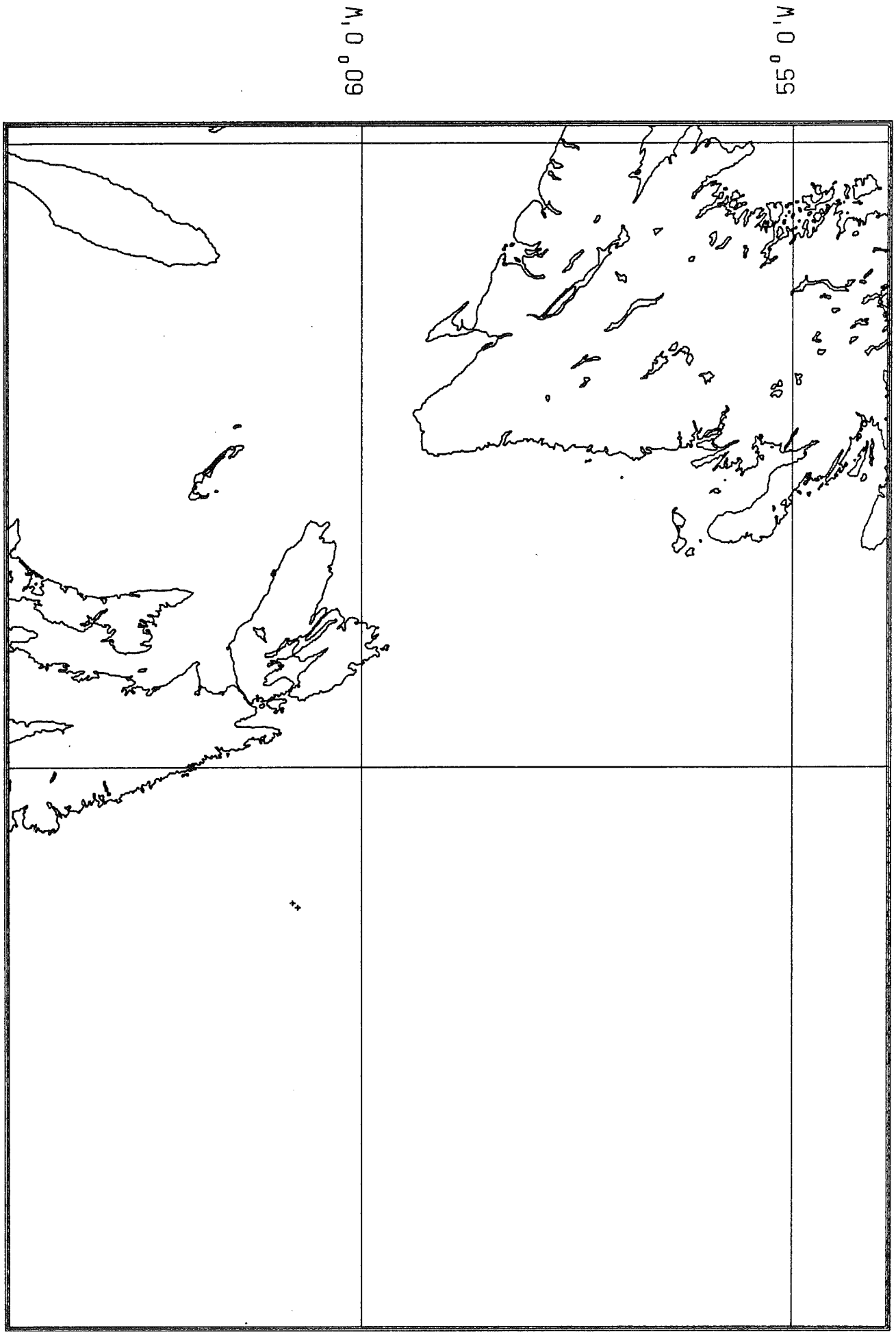
	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87400	001	45.34933	-55.28650	K.MORAN/BALDER CHALLENGER	HALIBUT CHANNEL, GRAND BANKS	157.43	240	BOREHOLE	WIRELINE SAMPLES	789.0
*	87400	002	45.32267	-55.29683	K.MORAN/BALDER CHALLENGER	HALIBUT CHANNEL, GRAND BANKS	165.03	241	BOREHOLE	WIRELINE SAMPLES	7568.0
*	87400	003	46.84717	-48.00017	K.MORAN/BALDER CHALLENGER	HIBERNIA EAST, GRAND BANKS	125.68	244	BOREHOLE	WIRELINE SAMPLES	769.0
*	87400	004	45.33833	-55.28883	K.MORAN/BALDER CHALLENGER	HALIBUT CHANNEL, GRAND BANKS	166.79	247	BOREHOLE	WIRELINE SAMPLES	1945.0

SAMPLE LOCATIONS - 87401.
1:2100000 (MERCATOR, 48N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87401	002	46.23750	-63.72267	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	15.50	322	BOREHOLE	ROCK	7320.0
*	87401	002	46.23750	-63.72267	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	15.50	322	BOREHOLE	SHELBY	310.0
*	87401	005	46.21750	-63.74783	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	21.60	322	BOREHOLE	SHELBY TUBE	381.0
*	87401	005	46.21750	-63.74783	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	21.60	322	BOREHOLE	ROCK	5060.0
*	87401	007	46.20300	-63.76633	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	24.64	322	BOREHOLE	SHELBY TUBE	1152.0
*	87401	007	46.20300	-63.76633	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	24.64	322	BOREHOLE	ROCK	4220.0
*	87401	007A	46.20300	-63.76633	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	24.64	322	BOREHOLE	SHELBY TUBE	1050.0
*	87401	010	46.18550	-63.78783	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	16.00	322	BOREHOLE	SHELBY TUBE	147.0
*	87401	010	46.18550	-63.78783	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	16.00	322	BOREHOLE	ROCK	130.0
*	87401	010A	46.18550	-63.78783	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	16.00	322	BOREHOLE	SHELBY TUBE	121.0
*	87401	010A	46.18550	-63.78783	K.MORAN/BALDER CHALLENGER	NORTHUMBERLAND STRAIT	16.00	322	BOREHOLE	ROCK	190.0

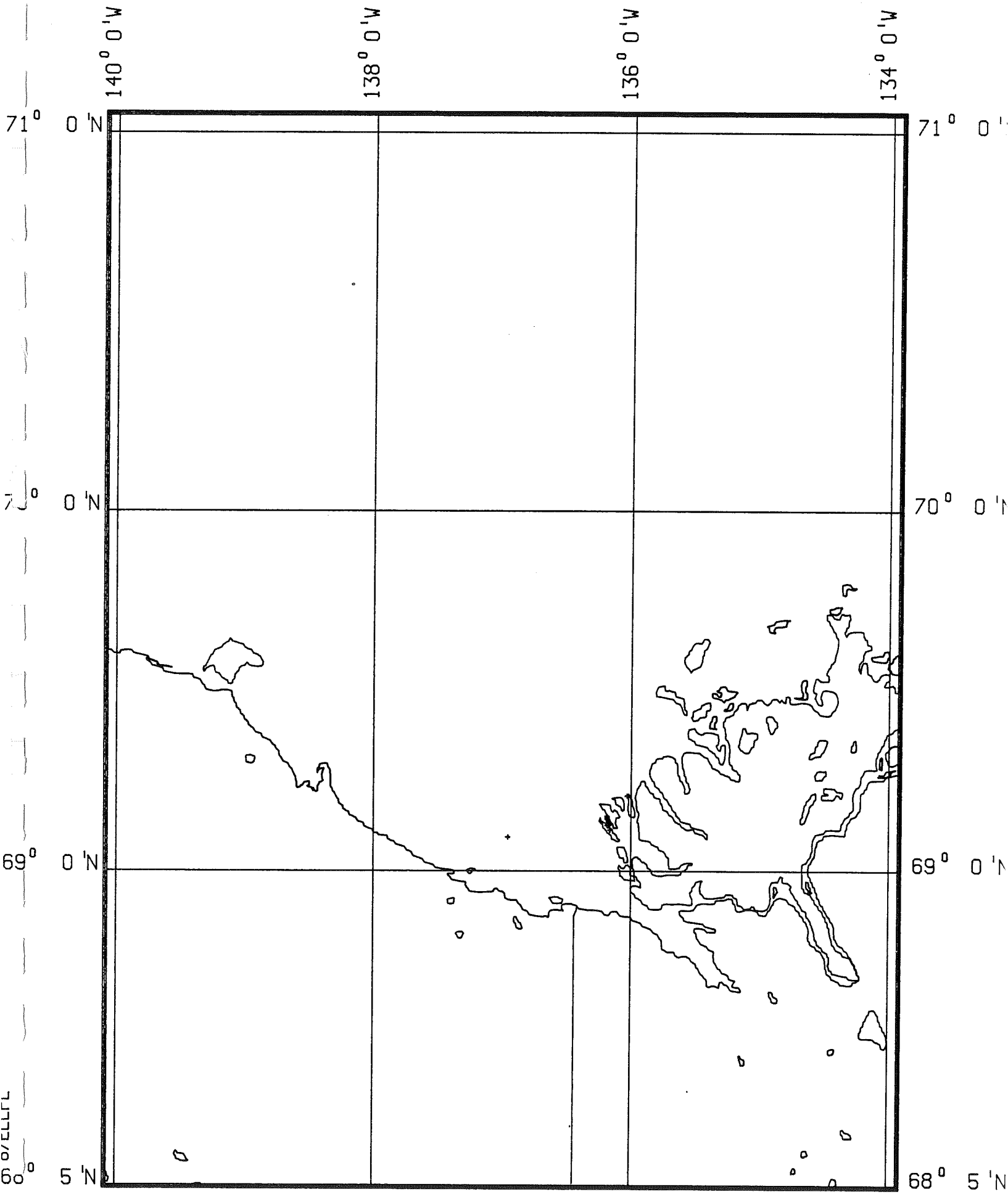
SAMPLE LOCATIONS - 87 BALDER CHALLENGER.
1:4425000 (MERCATOR, 50N).



87/RACPI

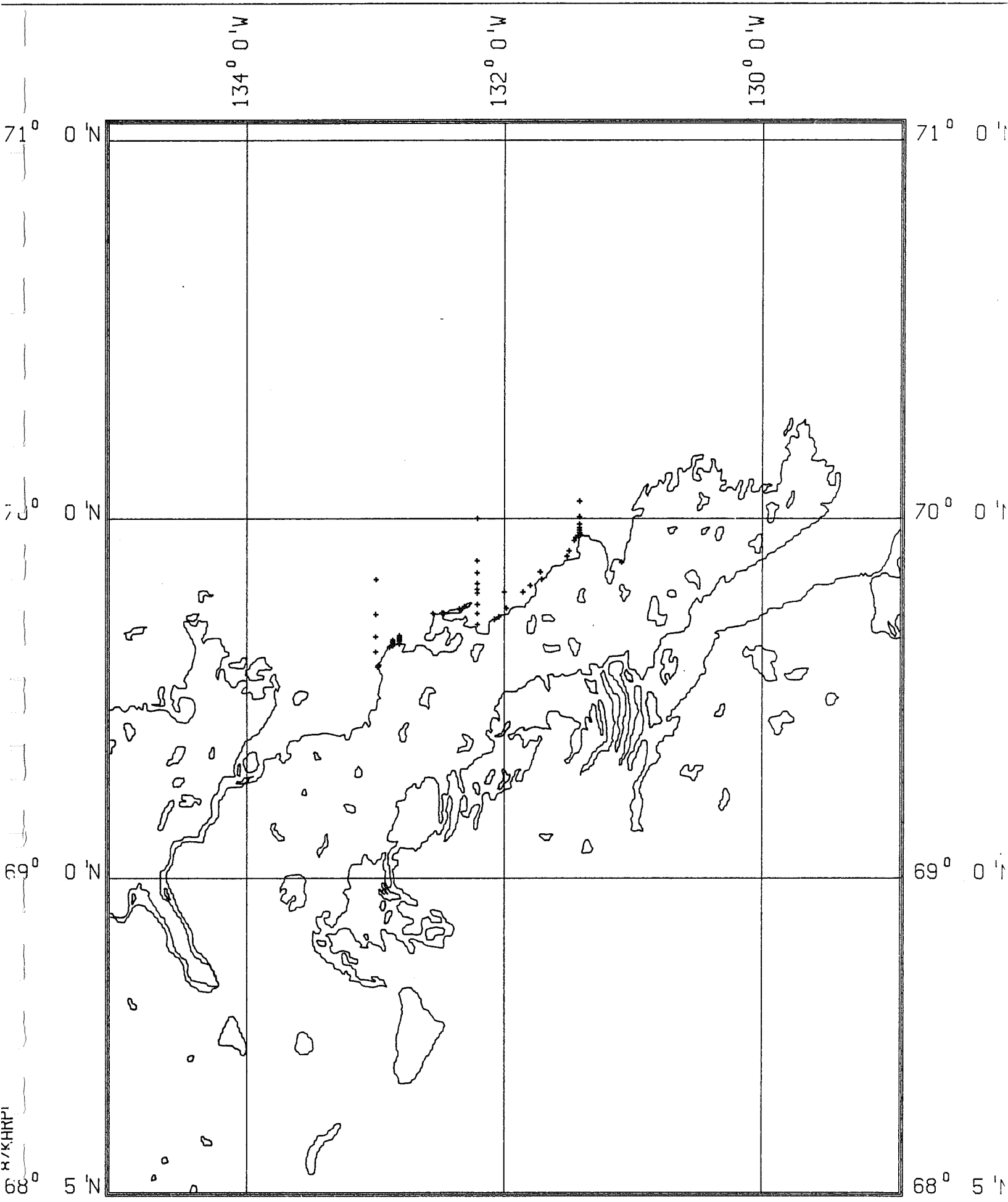
	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87BALDER CHALLENGER	G057-1	43.84600	-60.80533	C.AMOS/BALDER CHALLENGER	COMO P-21 SITE, SABLE ISLAND BANK	38.33	101	BOREHOLE	WIRELINE SAMPLER	3649.0
*	87BALDER CHALLENGER	G058-1	43.80733	-60.74333	C.AMOS/BALDER CHALLENGER	PANUK F-99 SITE, SABLE ISLAND	44.89	105	BOREHOLE	WIRELINE SAMPLER	3619.0
*	87BALDER CHALLENGER	G059-1	43.80733	-60.74333	C.AMOS/BALDER CHALLENGER	PANUK F-99 SITE, SABLE ISLAND	44.09	106	BOREHOLE	WIRELINE SAMPLER	6012.0

SAMPLE LOCATIONS - 87 ELLICE ISLAND.
1:1350000 (MERCATOR, 71N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87ELLICE ISLAND	001	69.21333	-136.03000	K.JENNER/P.HILL/DOPPLER	SUBAQVEOUS LEVEE, MACKENZIE DELTA	0.00	213	CORE	VIBRACORE	90.5
*	87ELLICE ISLAND	002	69.09667	-136.95667	K.JENNER/P.HILL/DOPPLER	SUBAQVEOUS LEVEE, MACKENZIE DELTA	0.00	218	CORE	VIBRACORE	94.0
*	87ELLICE ISLAND	003	69.13000	-136.18667	K.JENNER/P.HILL/DOPPLER	LEVEE,MACKENZIE DELTA	0.00	223	CORE	VIBRACORE	114.5
*	87ELLICE ISLAND	004	69.13167	-136.18333	K.JENNER/P.HILL/DOPPLER	MARSH, MACKENZIE DELTA	0.00	224	CORE	VIBRACORE	17.7
*	87ELLICE ISLAND	005	69.12917	-136.18000	K.JENNER/P.HILL/DOPPLER	MARSH, MACKENZIE DELTA	0.00	224	CORE	VIBRACORE	95.0
*	87ELLICE ISLAND	006	69.13083	-136.17000	K.JENNER/P.HILL/DOPPLER	LEVEE, MACKENZIE DELTA	0.00	224	CORE	VIBRACORE	94.5
*	87ELLICE ISLAND	007	69.13417	-136.16833	K.JENNER/P.HILL/DOPPLER	ABANDONED CHANNEL MACKENZIE DELTA	0.00	224	CORE	VIBRACORE	98.5
*	87ELLICE ISLAND	008	69.13500	-136.17500	K.JENNER/P.HILL/DOPPLER	DRY MARSH, MACKENZIE DELTA	0.00	225	CORE	VIBRACORE	96.5
*	87ELLICE ISLAND	009	69.13667	-136.17417	K.JENNER/P.HILL/DOPPLER	ACTIVE LEVEE, MACKENZIE DELTA	0.00	225	CORE	VIBRACORE	94.0
*	87ELLICE ISLAND	010	69.13917	-136.17333	K.JENNER/P.HILL/DOPPLER	LEVEE, MACKENZIE DELTA	0.00	225	CORE	VIBRACORE	88.3
*	87ELLICE ISLAND	011	69.14250	-136.17667	K.JENNER/P.HILL/DOPPLER	DRY MARSH, MACKENZIE DELTA	0.00	225	CORE	VIBRACORE	92.0
*	87ELLICE ISLAND	012	69.14667	-136.18167	K.JENNER/P.HILL/DOPPLER	MARSH, MACKENZIE DELTA	0.00	225	CORE	VIBRACORE	71.7
*	87ELLICE ISLAND	013	69.14833	-136.18667	K.JENNER/P.HILL/DOPPLER	LAKE, MACKENZIE DELTA	0.00	226	CORE	VIBRACORE	44.5
*	87ELLICE ISLAND	014	69.15333	-136.18750	K.JENNER/P.HILL/DOPPLER	DRY MARSH, MACKENZIE DELTA	0.00	226	CORE	VIBRACORE	87.0
*	87ELLICE ISLAND	015	69.15583	-136.18833	K.JENNER/P.HILL/DOPPLER	LEVEE, MACKENZIE DELTA	0.00	226	CORE	VIBRACORE	97.0
*	87ELLICE ISLAND	016	69.13083	-136.18167	K.JENNER/P.HILL/DOPPLER	MARSH, MACKENZIE DELTA	0.00	226	CORE	VIBRACORE	74.6
*	87ELLICE ISLAND	017	69.11667	-136.16333	K.JENNER/P.HILL/DOPPLER	ABANDONED CHANNEL MACKENZIE DELTA	0.00	227	CORE	VIBRACORE	106.7

SAMPLE LOCATIONS - 87 KARLUK.
1:1350000 (MERCATOR, 71N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87KARLUK	AT-D1	69.94833	-131.44667	A.HEQUETTE/P.HILL/CSS KARLUK			251	GRAB	BEACH	
*	87KARLUK	A1-87	69.95417	-131.43050	A.HEQUETTE/P.HILL/CSS KARLUK			252	CORE	PUSH	118.0
*	87KARLUK	A2-87	69.95100	-131.42767	A.HEQUETTE/P.HILL/CSS KARLUK			252	CORE	PUSH	113.0
*	87KARLUK	A2-87-5	69.95100	-131.42767	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT		252	GRAB	BEACH	
*	87KARLUK	A3-87	69.94833	-131.45000	A.HEQUETTE/P.HILL/CSS KARLUK			254	GRAB	BEACH	
*	87KARLUK	CW2-1	69.75267	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW2, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	CW2-2	69.75267	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW2, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	CW2-4	69.75267	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW2, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	CW2-5	69.75267	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW2, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	CW3-1	69.74267	-132.47333	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW3, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	CW3-2	69.74267	-132.47333	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW3, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	MC-1-3	69.88050	-131.09333	A.HEQUETTE/P.HILL/CSS KARLUK	MCKINLEY BAY		249	GRAB	BEACH	
*	87KARLUK	PB-1	69.83433	-131.71333	A.HEQUETTE/P.HILL/CSS KARLUK			236	GRAB	BEACH	
*	87KARLUK	TU-B	69.74100	-132.55333	A.HEQUETTE/P.HILL/CSS KARLUK	TUFT PT		249	GRAB	BEACH	
*	87KARLUK	TU-C	69.74100	-132.55333	A.HEQUETTE/P.HILL/CSS KARLUK	TUFT PT		249	GRAB	BEACH	
*	87KARLUK	W5-1	69.74167	-132.48333	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION W5, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	W5-2	69.74167	-132.48333	A.HEQUETTE/P.HILL/CSS KARLUK			238	GRAB	BEACH	
*	87KARLUK	W5-3	69.74167	-132.48333	A.HEQUETTE/P.HILL/CSS KARLUK			238	GRAB	BEACH	
*	87KARLUK	W5-4	69.74167	-132.48333	A.HEQUETTE/P.HILL/CSS KARLUK	SECTION CW5, WARREN PT		237	GRAB	BEACH	
*	87KARLUK	1TA1-1	69.95550	-131.41333	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT E		236	GRAB	BEACH	
*	87KARLUK	1TA1-2	69.95550	-131.41333	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT E		236	GRAB	BEACH	
*	87KARLUK	1TA1-3	69.95550	-131.41333	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT E		236	GRAB	BEACH	
*	87KARLUK	1TA2-1	69.94000	-131.46167	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT W		236	GRAB	BEACH	
*	87KARLUK	1TA2-2	69.94000	-131.46167	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT W		236	GRAB	BEACH	
*	87KARLUK	1TA2-3	69.94000	-131.46167	A.HEQUETTE/P.HILL/CSS KARLUK	ATKINSON PT W		236	GRAB	BEACH	
*	87KARLUK	1TA3-1	69.91167	-131.50000	A.HEQUETTE/P.HILL/CSS KARLUK	N OF BARRIER SW OF ATKINSON PT		236	GRAB	BEACH	
*	87KARLUK	1TA3-2	69.91167	-131.50000	A.HEQUETTE/P.HILL/CSS KARLUK	N OF BARRIER SW OF ATKINSON PT		236	GRAB	BEACH	

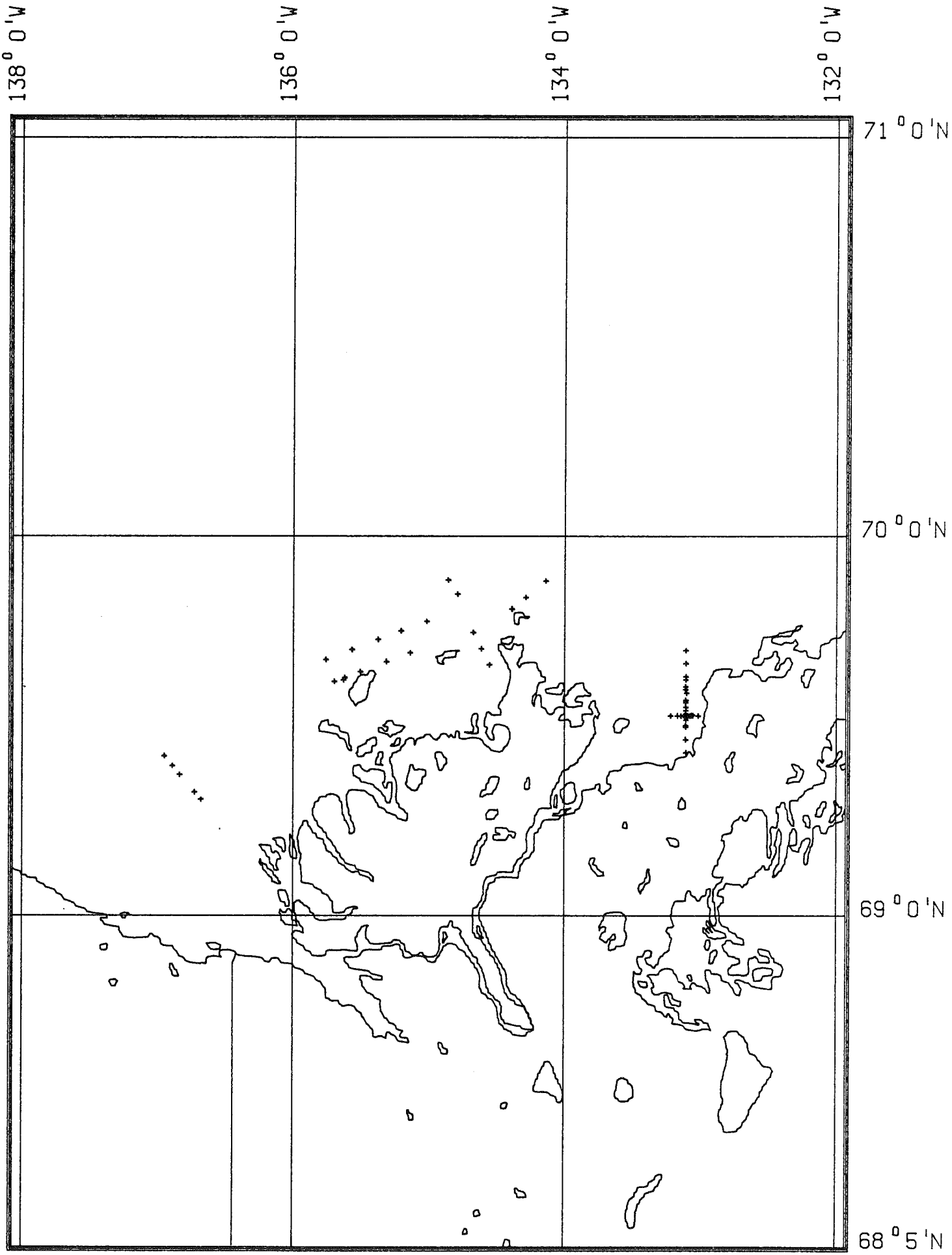
* 87KARLUK	1TA3-3	69.91167	-131.50000	A.HEQUETTE/P.HILL/CSS KARLUK	N OF BARRIER SW OF ATKINSON PT	236	GRAB	BEACH
* 87KARLUK	1TA4-1	69.89717	-131.51667	A.HEQUETTE/P.HILL/CSS KARLUK	S OF BARRIER SW OF ATKINSON PT	236	GRAB	BEACH
* 87KARLUK	1TA4-2	69.89717	-131.51667	A.HEQUETTE/P.HILL/CSS KARLUK	S OF BARRIER SW OF ATKINSON PT	236	GRAB	BEACH
* 87KARLUK	1TA4-3	69.89717	-131.51667	A.HEQUETTE/P.HILL/CSS KARLUK	S OF BARRIER SW OF ATKINSON PT	236	GRAB	BEACH
* 87KARLUK	1TA4-4	69.89717	-131.51667	A.HEQUETTE/P.HILL/CSS KARLUK	S OF BARRIER SW OF ATKINSON PT	236	GRAB	BEACH
* 87KARLUK	1TB1-1	69.83433	-131.71333	A.HEQUETTE/P.HILL/CSS KARLUK	BEACH IN LAGOON BOLS PT	236	GRAB	BEACH
* 87KARLUK	1TB1-2	69.83433	-131.71333	A.HEQUETTE/P.HILL/CSS KARLUK	BEACH IN LAGOON BOLS PT	236	GRAB	BEACH
* 87KARLUK	1TB1-3	69.83433	-131.71333	A.HEQUETTE/P.HILL/CSS KARLUK	BEACH IN LAGOON BOLS PT	236	GRAB	BEACH
* 87KARLUK	1TB2-1	69.85417	-131.72333	A.HEQUETTE/P.HILL/CSS KARLUK	NORTH END OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB2-2	69.85417	-131.72333	A.HEQUETTE/P.HILL/CSS KARLUK	NORTH END OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB2-3	69.85417	-131.72333	A.HEQUETTE/P.HILL/CSS KARLUK	NORTH END OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB3-1	69.81767	-131.80000	A.HEQUETTE/P.HILL/CSS KARLUK	MIDDLE OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB3-2	69.81767	-131.80000	A.HEQUETTE/P.HILL/CSS KARLUK	MIDDLE OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB3-3	69.81767	-131.80000	A.HEQUETTE/P.HILL/CSS KARLUK	MIDDLE OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB4-1	69.79933	-131.85683	A.HEQUETTE/P.HILL/CSS KARLUK	SOUTH END OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TB4-2	69.79933	-131.85683	A.HEQUETTE/P.HILL/CSS KARLUK	SOUTH END OF BOLS PT BARRIER	236	GRAB	BEACH
* 87KARLUK	1TH1-1	69.72433	-132.07667	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H1 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH1-2	69.72433	-132.07667	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H1 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH1-3	69.72433	-132.07667	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H1 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH1-4	69.72433	-132.07667	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H1 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH1-5	69.72433	-132.07667	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H1 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH2-1	69.73133	-132.04333	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H2 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH2-2	69.73133	-132.04333	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H2 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH2-3	69.73133	-132.04333	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H2 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH2-4	69.73133	-132.04333	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H2 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH3-1	69.75500	-131.98600	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H3 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TH3-2	69.75500	-131.98600	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H3 HUTCHISON BAY	236	GRAB	BEACH

* 87KARLUK	1TH3-3	69.75500	-131.98600	A.HEQUETTE/P.HILL/CSS KARLUK	SITE H3 HUTCHISON BAY	236	GRAB	BEACH
* 87KARLUK	1TT0-1	69.59833	-132.97333	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT0-2	69.59833	-132.97333	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT0-3	69.59833	-132.97333	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT0-4	69.59833	-132.97333	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT0-5	69.59833	-132.97333	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT1-1	69.59500	-132.98050	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT1-2	69.59500	-132.98050	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT1-3	69.59500	-132.98050	A.HEGUETTE/P.HILL/CSS, KARLUK,	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT1-4	69.59500	-132.98050	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT1-5	69.59500	-132.98050	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT1-6	69.59500	-132.98050	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT1-7	69.59500	-132.98050	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT2-1	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT2-2	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT2-3	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT2-4	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	234	GRAB	BEACH
* 87KARLUK	1TT2-5	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT2-6	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT2-7	69.59333	-132.98333	A.HEQUETTE/P.HILL/CSS KARLUK	TIBJAK PT	248	GRAB	BEACH
* 87KARLUK	1TT3-1	69.64767	-132.89333	A.HEQUETTE/P.HILL/CSS KARLUK	TOKEN PT	237	GRAB	BEACH
* 87KARLUK	1TT3-2	69.64767	-132.89333	A.HEQUETTE/P.HILL/CSS KARLUK	TOKEN PT	237	GRAB	BEACH
* 87KARLUK	1TT3-3	69.64767	-132.89333	A.HEQUETTE/P.HILL/CSS KARLUK		237	GRAB	BEACH
* 87KARLUK	1TW1-1	69.76000	-132.30833	A.HEQUETTE/P.HILL/CSS KARLUK	E OF WARREN PT SPIT	237	GRAB	BEACH
* 87KARLUK	1TW1-2	69.76000	-132.30833	A.HEQUETTE/P.HILL/CSS KARLUK	E OF WARREN PT SPIT	237	GRAB	BEACH
* 87KARLUK	1TW2-1	69.75383	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	M OF WARREN PT SPIT	237	GRAB	BEACH
* 87KARLUK	1TW2-2	69.75383	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	M OF WARREN PT SPIT	237	GRAB	BEACH

* 87KARLUK	1TW2-3	69.75383	-132.34717	A.HEQUETTE/P.HILL/CSS KARLUK	N OF WARREN PT SPIT		237	GRAB	BEACH
* 87KARLUK	1TW3-1	69.74267	-132.47333	A.HEQUETTE/P.HILL/CSS KARLUK	W OF WARREN PT SPIT		237	GRAB	BEACH
* 87KARLUK	1TW3-2	69.74267	-132.47333	A.HEQUETTE/P.HILL/CSS KARLUK	W OF WARREN PT SPIT		237	GRAB	BEACH
* 87KARLUK	1TW3-3	69.74017	-132.46667	A.HEQUETTE/P.HILL/CSS KARLUK			238	GRAB	BEACH
* 87KARLUK	87-15-1	69.65633	-132.81517	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	1.30	255	GRAB	GRAB
* 87KARLUK	87-15-10	69.68050	-132.81467	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	5.50	255	GRAB	GRAB
* 87KARLUK	87-15-2	69.65750	-132.81633	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	2.30	255	GRAB	GRAB
* 87KARLUK	87-15-3	69.65717	-132.81583	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	2.00	255	GRAB	GRAB
* 87KARLUK	87-15-4	69.65850	-132.81583	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	2.00	255	GRAB	GRAB
* 87KARLUK	87-15-5	69.66417	-132.81517	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	4.20	255	GRAB	GRAB
* 87KARLUK	87-15-6	69.66800	-132.81517	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	3.10	255	GRAB	GRAB
* 87KARLUK	87-15-7	69.67217	-132.81500	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	4.50	255	GRAB	GRAB
* 87KARLUK	87-15-8	69.67417	-132.81517	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	3.70	255	GRAB	GRAB
* 87KARLUK	87-15-9	69.67633	-132.81467	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	4.00	255	GRAB	GRAB
* 87KARLUK	87-19-1	69.65183	-132.86717	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	1.50	249	GRAB	GRAB
* 87KARLUK	87-19-1P	69.65183	-132.86717	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF TOKEN PT	1.50	249	WATER	WATER
* 87KARLUK	87-19-10	69.65750	-132.86667	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	3.00	249	GRAB	GRAB
* 87KARLUK	87-19-11	69.66083	-132.86667	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	5.20	249	GRAB	GRAB
* 87KARLUK	87-19-12	69.66183	-132.86667	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	3.50	249	GRAB	GRAB
* 87KARLUK	87-19-13	69.66300	-132.86667	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	5.30	249	GRAB	GRAB
* 87KARLUK	87-19-14	69.66583	-132.86683	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	6.00	249	GRAB	GRAB
* 87KARLUK	87-19-15	69.66350	-132.86600	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	4.00	249	GRAB	GRAB
* 87KARLUK	87-19-16	69.66850	-132.86633	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	5.00	249	GRAB	GRAB
* 87KARLUK	87-19-2	69.65300	-132.86750	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	3.00	249	GRAB	GRAB
* 87KARLUK	87-19-7	69.65517	-132.86667	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	2.50	249	GRAB	GRAB
* 87KARLUK	87-19-8	69.65600	-132.86600	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	4.30	249	GRAB	GRAB
* 87KARLUK	87-19-9	69.65600	-132.86600	A.HEGUETTE/P.HILL/CSS. KARLUK.	TOKEN PT	4.30	249	GRAB	GRAB

* 87KARLUK	87-22-1	69.79967	-132.00050	A.HEGUETTE/P.HILL/CSS. KARLUK.	NW TOKEN PT	9.00	258	GRAB	GRAB
* 87KARLUK	87-22-2	69.83350	-132.99633	A.HEGUETTE/P.HILL/CSS. KARLUK.	NW TOKEN PT	11.00	258	GRAB	GRAB
* 87KARLUK	87-24-1	69.59667	-132.98333	A.HEGUETTE/P.HILL/CSS. KARLUK.	TIBJAK PT		249	GRAB	BEACH
* 87KARLUK	87-25-1	69.73800	-132.99917	A.HEGUETTE/P.HILL/CSS. KARLUK.	JAMES SHOAL	4.20	258	GRAB	GRAB
* 87KARLUK	87-25-2	69.67683	-133.00000	A.HEGUETTE/P.HILL/CSS. KARLUK.	W TOKEN PT	8.50	258	GRAB	GRAB
* 87KARLUK	87-25-3	69.63517	-133.00017	A.HEGUETTE/P.HILL/CSS. KARLUK.	W TOKEN PT	0.00	258	GRAB	GRAB
* 87KARLUK	87-35-1	69.96083	-131.41767	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	3.00	254	GRAB	GRAB
* 87KARLUK	87-35-1P	69.96083	-131.41767	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	3.00	254	WATER	WATER
* 87KARLUK	87-35-2	69.96167	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	5.00	249	GRAB	GRAB
* 87KARLUK	87-35-2P	69.96167	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	5.00	254	WATER	WATER
* 87KARLUK	87-35-3	69.96833	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	6.50	254	GRAB	GRAB
* 87KARLUK	87-35-3P	69.96833	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	6.50	254	WATER	WATER
* 87KARLUK	87-35-4	69.97467	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	8.30	254	GRAB	GRAB
* 87KARLUK	87-35-4P	69.97467	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	8.30	254	WATER	WATER
* 87KARLUK	87-35-5	69.97467	-131.42050	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	8.30	254	GRAB	GRAB
* 87KARLUK	87-35-6	69.98467	-131.42017	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	10.00	254	GRAB	GRAB
* 87KARLUK	87-35-6P	69.98467	-131.42017	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	10.00	254	WATER	WATER
* 87KARLUK	87-35-7	70.00417	-131.42017	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	12.00	254	GRAB	GRAB
* 87KARLUK	87-35-7P	70.00417	-131.42017	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	12.00	254	WATER	WATER
* 87KARLUK	87-35-8	70.04683	-131.41883	A.HEGUETTE/P.HILL/CSS. KARLUK.	ATKINSON PT	14.00	254	GRAB	GRAB
* 87KARLUK	87-35-8P	70.04683	-131.41883	A.HEGUETTE/P.HILL/CSS. KARLUK.	OFF ATKINSON PT	14.00	254	WATER	WATER
* 87KARLUK	87-46-1	70.00017	-132.20883	A.HEGUETTE/P.HILL/CSS. KARLUK.	N OF BELUGA SHOAL	17.50	255	GRAB	GRAB
* 87KARLUK	87-9-1	69.71050	-132.20933	A.HEGUETTE/P.HILL/CSS. KARLUK.	HUTCHISON BAY	2.00	255	GRAB	GRAB
* 87KARLUK	87-9-2	69.74083	-132.21017	A.HEGUETTE/P.HILL/CSS. KARLUK.	HUTCHISON BAY	4.30	255	GRAB	GRAB
* 87KARLUK	87-9-3	69.76550	-132.20917	A.HEGUETTE/P.HILL/CSS. KARLUK.	WARREN PT SHOAL	4.30	255	GRAB	GRAB
* 87KARLUK	87-9-4	69.79667	-132.20967	A.HEGUETTE/P.HILL/CSS. KARLUK.	S OF BELUGA SHOAL	6.00	255	GRAB	GRAB
* 87KARLUK	87-9-5	69.80683	-132.21133	A.HEGUETTE/P.HILL/CSS. KARLUK.	BELUGA SHOAL	2.80	255	GRAB	GRAB
* 87KARLUK	87-9-6	69.82267	-132.20917	A.HEGUETTE/P.HILL/CSS. KARLUK.	N OF BELUGA SHOAL	7.00	255	GRAB	GRAB
* 87KARLUK	87-9-7	69.85217	-132.20967	A.HEGUETTE/P.HILL/CSS. KARLUK.	N OF BELUGA SHOAL	8.70	255	GRAB	GRAB
* 87KARLUK	87-9-8	69.88500	-132.21100	A.HEGUETTE/P.HILL/CSS. KARLUK.	N OF BELUGA SHOAL	9.70	255	GRAB	GRAB

SAMPLE LOCATIONS - 86 NAHIDIK.
1:1350000 (MERCATOR, 71N).



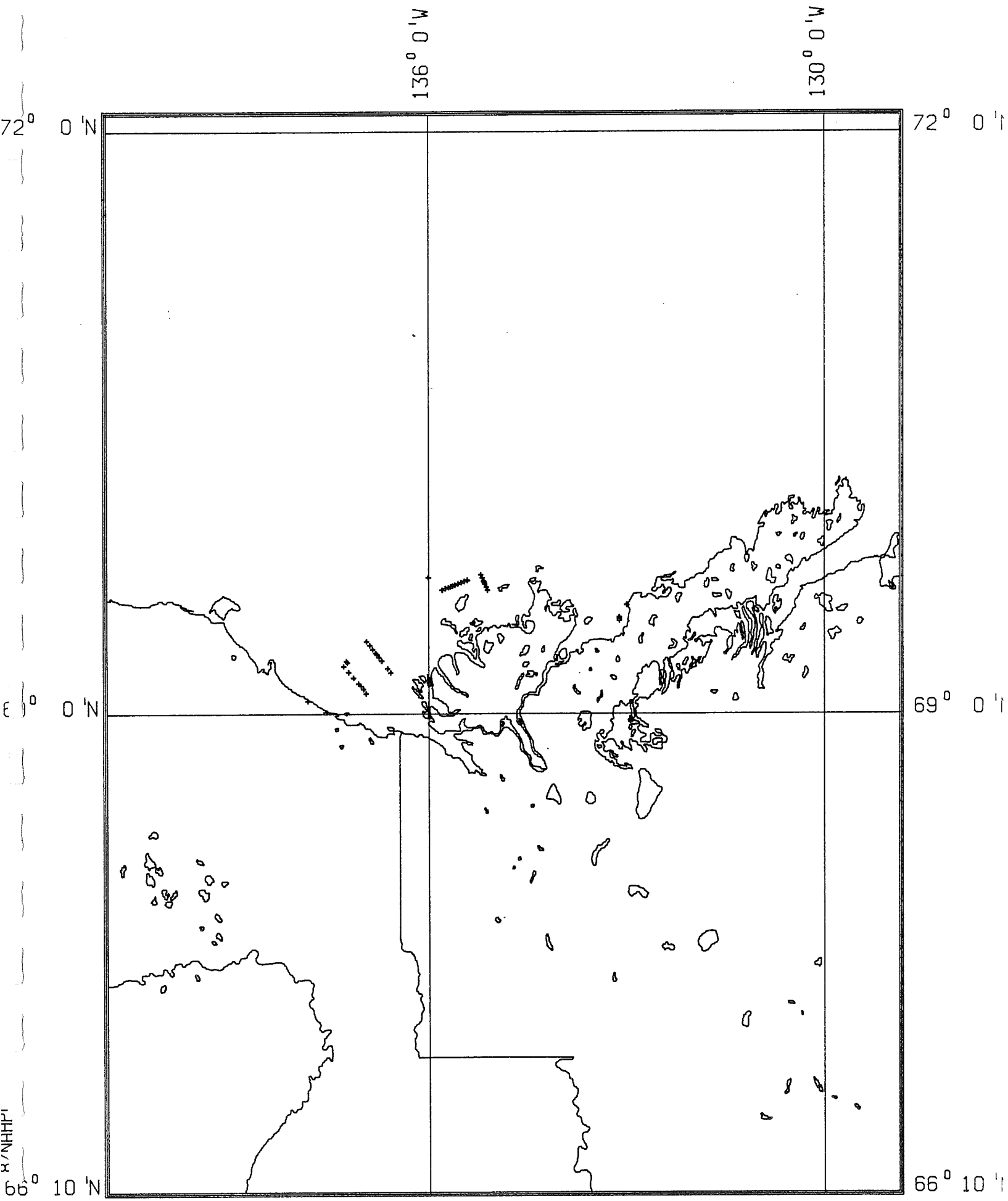
RSNAHPI

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	86NAHIDIK	001	69.81200	-134.38867	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	7.05	249	CORE	GRAVITY	
*	86NAHIDIK	002	69.81200	-134.38850	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	7.08	249	CORE	GRAVITY	26.0
*	86NAHIDIK	003	69.84200	-134.28617	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	6.86	249	CORE	GRAVITY	75.0
*	86NAHIDIK	004	69.88517	-134.14083	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	8.73	249	CORE	GRAVITY	66.0
*	86NAHIDIK	005	69.88750	-134.86100	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	13.00	249	WATER	NALGENE	
*	86NAHIDIK	006	69.85050	-134.78967	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	10.50	249	WATER	NALGENE	
*	86NAHIDIK	008	69.75133	-134.67517	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.80	249	WATER	NALGENE	
*	86NAHIDIK	009	69.70883	-134.61633	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.30	249	WATER	NALGENE	
*	86NAHIDIK	010	69.66717	-134.55617	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	3.40	249	WATER	NALGENE	
*	86NAHIDIK	011	69.75533	-135.20617	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	8.73	250	CORE	GRAVITY	105.0
*	86NAHIDIK	012	69.69800	-135.13983	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	5.92	250	CORE	GRAVITY	52.0
*	86NAHIDIK	013	69.67467	-135.31300	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	5.61	250	CORE	GRAVITY	20.0
*	86NAHIDIK	014	69.64883	-135.50517	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	5.61	250	CORE	GRAVITY	32.0
*	86NAHIDIK	015	69.63317	-135.61967	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	5.61	250	CORE	GRAVITY	54.0
*	86NAHIDIK	016	69.62700	-135.62983	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	5.61	250	CORE	GRAVITY	66.0
*	86NAHIDIK	017	69.62300	-135.69717	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	5.61	250	CORE	GRAVITY	58.0
*	86NAHIDIK	018	69.68033	-135.75950	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	8.42	251	CORE	GRAVITY	66.0
*	86NAHIDIK	019	69.70650	-135.56733	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	9.04	251	CORE	GRAVITY	54.0
*	86NAHIDIK	020	69.70650	-135.56783	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	9.04	251	CORE	GRAVITY	
*	86NAHIDIK	021	69.73283	-135.37550	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	8.73	251	CORE	GRAVITY	55.0
*	86NAHIDIK	022	69.75533	-135.20650	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	8.73	251	CORE	GRAVITY	64.0
*	86NAHIDIK	023	69.78000	-135.01833	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA	8.73	251	CORE	GRAVITY	78.0
*	86NAHIDIK	053	69.31183	-136.67817	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA		252	WATER	BUCKET	
*	86NAHIDIK	054	69.33117	-136.72683	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA		252	WATER	BUCKET	
*	86NAHIDIK	055	69.37767	-136.83667	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA		252	WATER	NALGENE	
*	86NAHIDIK	056	69.40100	-136.89133	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA		252	WATER	NALGENE	
*	86NAHIDIK	057	69.42650	-136.95217	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA		252	WATER	NALGENE	

* 86NAHIDIK	058	69.70483	-133.10850	P.HILL/NAHIDIK	MACKENZIE BAY, BEAUFORT SEA		253	WATER	NALGENE	
* 86NAHIDIK	059	69.67083	-133.10833	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		253	WATER	NALGENE	
* 86NAHIDIK	060	69.63683	-133.10800	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		253	WATER	NALGENE	
* 86NAHIDIK	061	69.60283	-133.10833	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		253	WATER	NALGENE	
* 86NAHIDIK	062	69.56867	-133.10850	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		253	WATER	NALGENE	
* 86NAHIDIK	063	69.53467	-133.10883	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		253	WATER	NALGENE	
* 86NAHIDIK	064	69.50417	-133.10833	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		254	WATER	NALGENE	
* 86NAHIDIK	065	69.47033	-133.10833	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA		254	WATER	NALGENE	
* 86NAHIDIK	066	69.43617	-133.10850	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.61	254	CORE	GRAVITY	100.0
* 86NAHIDIK	067	69.50783	-133.10867	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.36	254	GRAB	GRAB	
* 86NAHIDIK	068	69.52300	-133.10817	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	254	GRAB	GRAB	
* 86NAHIDIK	069	69.52983	-133.10933	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	254	CORE	GRAVITY	63.0
* 86NAHIDIK	070	69.52950	-133.10850	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.30	254	CORE	GRAVITY	85.0
* 86NAHIDIK	071	69.53833	-133.10850	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.30	254	CORE	GRAVITY	153.0
* 86NAHIDIK	072	69.54733	-133.10850	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.61	254	CORE	GRAVITY	85.0
* 86NAHIDIK	073	69.55617	-133.10817	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.92	254	CORE	GRAVITY	160.0
* 86NAHIDIK	074	69.57417	-133.10817	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.92	254	CORE	GRAVITY	135.0
* 86NAHIDIK	075	69.59333	-133.10167	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.92	254	CORE	GRAVITY	114.0
* 86NAHIDIK	076	69.61000	-133.10850	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	6.23	254	CORE	GRAVITY	77.0
* 86NAHIDIK	077	69.62800	-133.10833	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.61	255	CORE	GRAVITY	100.0
* 86NAHIDIK	078	69.53317	-133.01600	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	255	CORE	GRAVITY	163.0
* 86NAHIDIK	079	69.53467	-133.05767	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	255	GRAB	GRAB	
* 86NAHIDIK	080	69.53417	-133.06717	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	255	CORE	GRAVITY	12.0
* 86NAHIDIK	081	69.53450	-133.06750	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	255	CORE	GRAVITY	16.0
* 86NAHIDIK	082	69.53417	-133.06733	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	255	CORE	GRAVITY	29.0
* 86NAHIDIK	083	69.53333	-133.07700	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.30	255	CORE	GRAVITY	72.0
* 86NAHIDIK	084	69.53300	-133.09283	P.HILL/NAHIDIK						

* 86NAHIDIK	085	69.53383	-133.11800	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.30	255	CORE	GRAVITY	44.0
* 86NAHIDIK	086	69.53350	-133.14433	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.92	255	CORE	GRAVITY	67.0
* 86NAHIDIK	087	69.53317	-133.16933	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	5.61	255	CORE	GRAVITY	133.0
* 86NAHIDIK	088	69.53350	-133.22083	P.HILL/NAHIDIK	KUGMALLIT BAY, BEAUFORT SEA	4.99	255	CORE	GRAVITY	135.0

SAMPLE LOCATIONS - 87 NAHIDIK.
1:2500000 (MERCATOR, 72N).

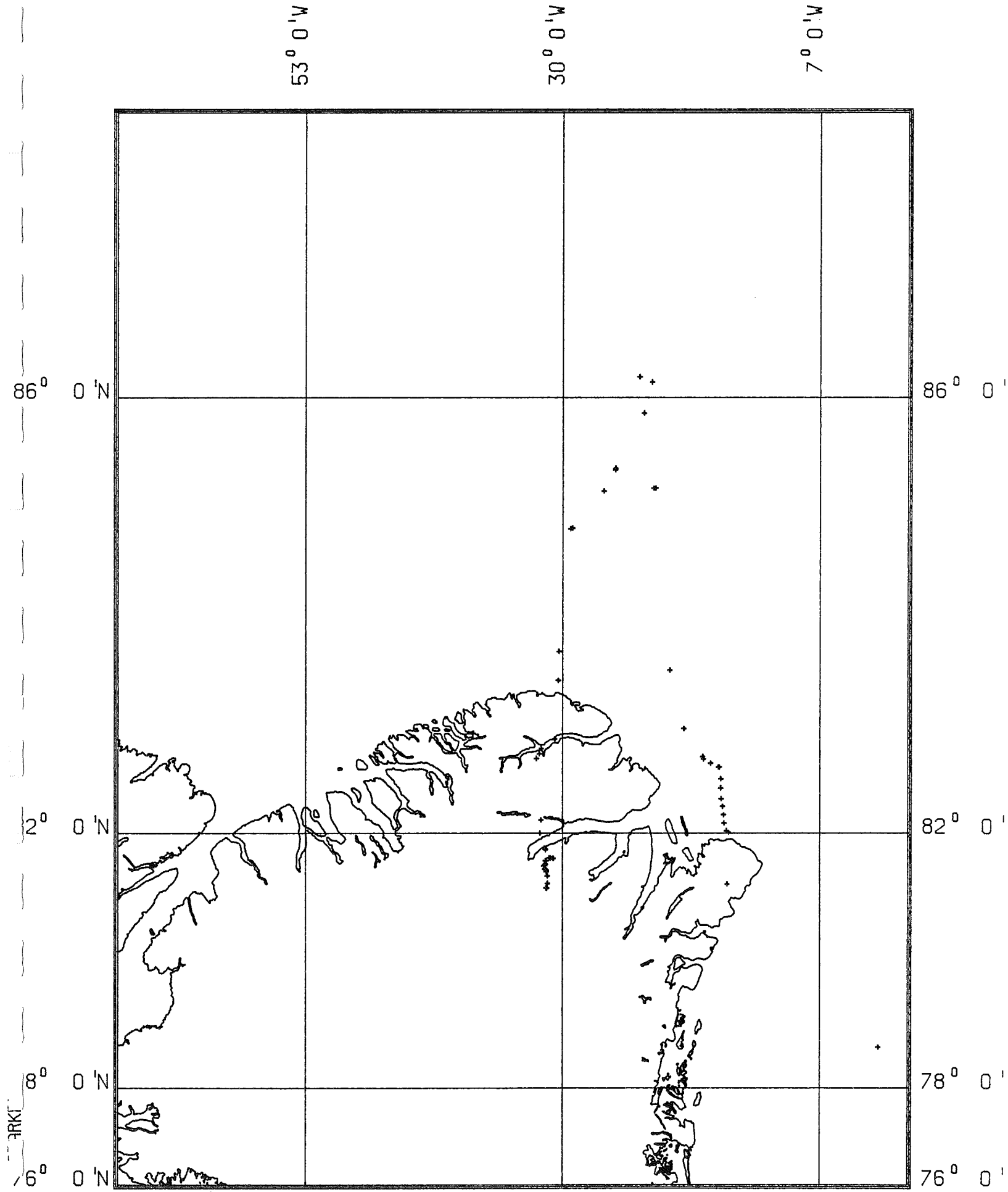


CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
* 87NAHIDIK	001	69.28350	-137.23300	P.HILL/NAHIDIK	BEAUFORT SEA	14.64	255	GRAB	VANVEEN	
* 87NAHIDIK	002	69.28317	-137.23333	P.HILL/NAHIDIK	BEAUFORT SEA	14.64	255	CORE	VIBRACORE	155.0
* 87NAHIDIK	003	69.28350	-137.23300	P.HILL/NAHIDIK	BEAUFORT SEA	14.64	255	WATER		
* 87NAHIDIK	004	69.29017	-137.24983	P.HILL/NAHIDIK	BEAUFORT SEA	17.08	255	GRAB	VANVEEN	
* 87NAHIDIK	005	69.28967	-137.24983	P.HILL/NAHIDIK	BEAUFORT SEA	17.08	255	CORE	VIBRACORE	91.0
* 87NAHIDIK	006	69.23050	-137.21333	P.HILL/NAHIDIK	BEAUFORT SEA	15.56	255	WATER		
* 87NAHIDIK	007	69.26200	-137.29017	P.HILL/NAHIDIK	BEAUFORT SEA	15.56	255	GRAB	VANVEEN	
* 87NAHIDIK	008	69.26150	-137.28983	P.HILL/NAHIDIK	BEAUFORT SEA	15.56	255	CORE	VIBRACORE	216.0
* 87NAHIDIK	009	69.23050	-137.21333	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	255	WATER		
* 87NAHIDIK	010	69.23050	-137.21333	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	255	GRAB	VANVEEN	
* 87NAHIDIK	011	69.23000	-137.21333	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	255	CORE	VIBRACORE	235.0
* 87NAHIDIK	012	69.19900	-137.13850	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	256	WATER		
* 87NAHIDIK	013	69.19900	-137.13850	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	256	GRAB	VANVEEN	
* 87NAHIDIK	014	69.19883	-137.13917	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	256	CORE	VIBRACORE	51.0
* 87NAHIDIK	015	69.16800	-137.06383	P.HILL/NAHIDIK	BEAUFORT SEA	2.75	256	WATER		
* 87NAHIDIK	016	69.16800	-137.06383	P.HILL/NAHIDIK	BEAUFORT SEA	2.75	256	GRAB	VANVEEN	
* 87NAHIDIK	017	69.16750	-137.06383	P.HILL/NAHIDIK	BEAUFORT SEA	2.75	256	CORE	VIBRACORE	203.0
* 87NAHIDIK	018	69.15433	-137.02533	P.HILL/NAHIDIK	BEAUFORT SEA		256	WATER		
* 87NAHIDIK	019	69.13650	-136.98733	P.HILL/NAHIDIK	BEAUFORT SEA	3.36	256	WATER		
* 87NAHIDIK	020	69.13650	-136.98733	P.HILL/NAHIDIK	BEAUFORT SEA	3.36	256	GRAB	VANVEEN	
* 87NAHIDIK	021	69.13650	-136.98817	P.HILL/NAHIDIK	BEAUFORT SEA	3.36	256	CORE	VIBRACORE	227.0
* 87NAHIDIK	022	69.11167	-136.94833	P.HILL/NAHIDIK	BEAUFORT SEA	3.36	256	WATER		
* 87NAHIDIK	023	69.11167	-136.94833	P.HILL/NAHIDIK	BEAUFORT SEA	3.36	256	GRAB	VANVEEN	
* 87NAHIDIK	024	69.11167	-136.94833	P.HILL/NAHIDIK	BEAUFORT SEA	3.36	256	CORE	VIBRACORE	250.0
* 87NAHIDIK	025	69.22700	-136.57617	P.HILL/NAHIDIK	BEAUFORT SEA	3.05	256	WATER		
* 87NAHIDIK	026	69.22700	-136.57617	P.HILL/NAHIDIK	BEAUFORT SEA	3.05	256	GRAB	VANVEEN	
* 87NAHIDIK	027	69.22700	-136.57617	P.HILL/NAHIDIK	BEAUFORT SEA	3.05	256	CORE	VIBRACORE	264.0
* 87NAHIDIK	028	69.25000	-136.62383	P.HILL/NAHIDIK	BEAUFORT SEA	3.97	256	GRAB	VANVEEN	
* 87NAHIDIK	029	69.25000	-136.62383	P.HILL/NAHIDIK	BEAUFORT SEA	3.97	256	WATER		
* 87NAHIDIK	030	69.25000	-136.62383	P.HILL/NAHIDIK	BEAUFORT SEA	3.97	256	CORE	VIBRACORE	180.0
* 87NAHIDIK	031	69.29283	-136.71783	P.HILL/NAHIDIK	BEAUFORT SEA		256	GRAB	VANVEEN	
* 87NAHIDIK	032	69.29283	-136.71783	P.HILL/NAHIDIK	BEAUFORT SEA		256	WATER		
* 87NAHIDIK	033	69.29283	-136.71783	P.HILL/NAHIDIK	BEAUFORT SEA		256	CORE	VIBRACORE	262.0
* 87NAHIDIK	034	69.67583	-135.79133	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	WATER		
* 87NAHIDIK	035	69.67583	-135.79133	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	GRAB	VANVEEN	
* 87NAHIDIK	036	69.67550	-135.79183	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	257	CORE	VIBRACORE	201.0
* 87NAHIDIK	037	69.68317	-135.74500	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	257	WATER		
* 87NAHIDIK	038	69.68317	-135.74500	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	257	GRAB	VANVEEN	
* 87NAHIDIK	039	69.68267	-135.74433	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	257	CORE	VIBRACORE	257.0
* 87NAHIDIK	040	69.68933	-135.69650	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	WATER		
* 87NAHIDIK	041	69.68933	-135.69650	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	GRAB	VANVEEN	
* 87NAHIDIK	042	69.68900	-135.69700	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	CORE	VIBRACORE	154.0
* 87NAHIDIK	043	69.69367	-135.66233	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	WATER		
* 87NAHIDIK	044	69.69367	-135.66233	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	GRAB	VANVEEN	
* 87NAHIDIK	045	69.69350	-135.66333	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	CORE	VIBRACORE	272.0
* 87NAHIDIK	046	69.69767	-135.63400	P.HILL/NAHIDIK	BEAUFORT SEA	8.24	257	WATER		
* 87NAHIDIK	047	69.69767	-135.63400	P.HILL/NAHIDIK	BEAUFORT SEA	8.24	257	GRAB	VANVEEN	
* 87NAHIDIK	048	69.69750	-135.63467	P.HILL/NAHIDIK	BEAUFORT SEA	8.24	257	CORE	VIBRACORE	278.0
* 87NAHIDIK	049	69.70217	-135.60000	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	WATER		
* 87NAHIDIK	050	69.70217	-135.60000	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	GRAB	VANVEEN	
* 87NAHIDIK	051	69.70183	-135.60033	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	CORE	VIBRACORE	268.0

* 87NAHIDIK	052	69.70883	-135.55333	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	WATER		
* 87NAHIDIK	053	69.70883	-135.55333	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	GRAB	VANVEEN	
* 87NAHIDIK	054	69.70850	-135.55367	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	CORE	VIBRACORE	268.0
* 87NAHIDIK	055	69.71533	-135.50450	P.HILL/NAHIDIK	BEAUFORT SEA	8.85	257	WATER		
* 87NAHIDIK	056	69.71533	-135.50450	P.HILL/NAHIDIK	BEAUFORT SEA	8.05	257	GRAB	VANVEEN	
* 87NAHIDIK	057	69.71500	-135.50500	P.HILL/NAHIDIK	BEAUFORT SEA	8.85	257	CORE	VIBRACORE	255.0
* 87NAHIDIK	058	69.72217	-135.45650	P.HILL/NAHIDIK	BEAUFORT SEA	8.85	257	WATER		
* 87NAHIDIK	059	69.72217	-135.45650	P.HILL/NAHIDIK	BEAUFORT SEA	8.85	257	GRAB	VANVEEN	
* 87NAHIDIK	060	69.72167	-135.45667	P.HILL/NAHIDIK	BEAUFORT SEA	8.05	257	CORE	VIBRACORE	270.0
* 87NAHIDIK	061	69.72817	-135.40767	P.HILL/NAHIDIK	BEAUFORT SEA	8.85	257	WATER		
* 87NAHIDIK	062	69.72817	-135.40767	P.HILL/NAHIDIK	BEAUFORT SEA	8.05	257	GRAB	VANVEEN	
* 87NAHIDIK	063	69.72783	-135.40817	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	CORE	VIBRACORE	278.0
* 87NAHIDIK	064	69.67517	-135.10667	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	WATER		
* 87NAHIDIK	065	69.67517	-135.10667	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	GRAB	VANVEEN	
* 87NAHIDIK	066	69.67483	-135.10750	P.HILL/NAHIDIK	BEAUFORT SEA	8.54	257	CORE	VIBRACORE	221.0
* 87NAHIDIK	067	69.69183	-135.12500	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	257	WATER		
* 87NAHIDIK	068	69.69183	-135.12500	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	257	GRAB	VANVEEN	
* 87NAHIDIK	069	69.69150	-135.12583	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	257	CORE	VIBRACORE	254.0
* 87NAHIDIK	070	69.70817	-135.14683	P.HILL/NAHIDIK	BEAUFORT SEA	6.41	257	WATER		
* 87NAHIDIK	071	69.70817	-135.14683	P.HILL/NAHIDIK	BEAUFORT SEA	6.41	257	GRAB	VANVEEN	
* 87NAHIDIK	072	69.70800	-135.14767	P.HILL/NAHIDIK	BEAUFORT SEA	6.41	257	CORE	VIBRACORE	264.0
* 87NAHIDIK	073	69.71650	-135.15700	P.HILL/NAHIDIK	BEAUFORT SEA	7.32	258	WATER		
* 87NAHIDIK	074	69.71650	-135.15700	P.HILL/NAHIDIK	BEAUFORT SEA	7.32	258	GRAB	VANVEEN	
* 87NAHIDIK	075	69.71633	-135.15783	P.HILL/NAHIDIK	BEAUFORT SEA	7.32	258	CORE	VIBRACORE	225.0
* 87NAHIDIK	076	69.72467	-135.16750	P.HILL/NAHIDIK	BEAUFORT SEA	7.32	258	WATER		
* 87NAHIDIK	077	69.72467	-135.16750	P.HILL/NAHIDIK	BEAUFORT SEA	7.32	258	GRAB	VANVEEN	
* 87NAHIDIK	078	69.72450	-135.16833	P.HILL/NAHIDIK	BEAUFORT SEA	7.32	258	CORE	VIBRACORE	268.0
* 87NAHIDIK	079	69.74133	-135.18717	P.HILL/NAHIDIK	BEAUFORT SEA	7.93	258	WATER		
* 87NAHIDIK	080	69.74133	-135.18717	P.HILL/NAHIDIK	BEAUFORT SEA	7.93	258	GRAB	VANVEEN	
* 87NAHIDIK	081	69.74117	-135.18783	P.HILL/NAHIDIK	BEAUFORT SEA	7.93	258	CORE	VIBRACORE	189.0
* 87NAHIDIK	082	69.75783	-135.20850	P.HILL/NAHIDIK	BEAUFORT SEA	9.15	258	WATER		
* 87NAHIDIK	083	69.75783	-135.20850	P.HILL/NAHIDIK	BEAUFORT SEA	9.15	258	GRAB	VANVEEN	
* 87NAHIDIK	084	69.75733	-135.20900	P.HILL/NAHIDIK	BEAUFORT SEA	9.15	258	CORE	VIBRACORE	263.0
* 87NAHIDIK	085	69.74250	-136.00350	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	258	WATER		
* 87NAHIDIK	086	69.74250	-136.00350	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	258	GRAB	VANVEEN	
* 87NAHIDIK	087	69.74267	-136.00300	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	258	CORE	VIBRACORE	38.0
* 87NAHIDIK	088	69.74250	-136.00383	P.HILL/NAHIDIK	BEAUFORT SEA	9.46	258	CORE	VIBRACORE	109.0
* 87NAHIDIK	089	69.39767	-136.94117	P.HILL/NAHIDIK	BEAUFORT SEA	10.98	258	WATER		
* 87NAHIDIK	090	69.39767	-136.94117	P.HILL/NAHIDIK	BEAUFORT SEA	10.98	258	GRAB	VANVEEN	
* 87NAHIDIK	091	69.39783	-136.94217	P.HILL/NAHIDIK	BEAUFORT SEA	10.98	258	CORE	VIBRACORE	214.0
* 87NAHIDIK	092	69.37650	-136.89333	P.HILL/NAHIDIK	BEAUFORT SEA	9.76	258	WATER		
* 87NAHIDIK	093	69.37650	-136.89333	P.HILL/NAHIDIK	BEAUFORT SEA	9.76	258	GRAB	VANVEEN	
* 87NAHIDIK	094	69.37650	-136.89333	P.HILL/NAHIDIK	BEAUFORT SEA	9.76	258	CORE	VIBRACORE	241.0
* 87NAHIDIK	095	69.35500	-136.84800	P.HILL/NAHIDIK	BEAUFORT SEA	7.93	258	WATER		
* 87NAHIDIK	096	69.35500	-136.84800	P.HILL/NAHIDIK	BEAUFORT SEA	7.93	258	GRAB	VANVEEN	
* 87NAHIDIK	097	69.35500	-136.84900	P.HILL/NAHIDIK	BEAUFORT SEA	7.93	258	CORE	VIBRACORE	132.0
* 87NAHIDIK	098	69.33433	-136.80233	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	258	WATER		
* 87NAHIDIK	099	69.33433	-136.80233	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	258	GRAB	VANVEEN	
* 87NAHIDIK	100	69.33433	-136.80350	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	258	CORE	VIBRACORE	224.0
* 87NAHIDIK	101	69.32600	-136.78267	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	259	WATER		

* 87NAHIDIK	102	69.32600	-136.78267	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	259	GRAB	VANVEEN	
* 87NAHIDIK	103	69.32600	-136.78367	P.HILL/NAHIDIK	BEAUFORT SEA	6.71	259	CORE	VIBRACORE	277.0
* 87NAHIDIK	104	69.31167	-136.75467	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	259	WATER		
* 87NAHIDIK	105	69.31167	-136.75467	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	259	GRAB	VANVEEN	
* 87NAHIDIK	106	69.31167	-136.75583	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	259	CORE	VIBRACORE	165.0
* 87NAHIDIK	107	69.29150	-136.71067	P.HILL/NAHIDIK	BEAUFORT SEA	4.88	259	WATER		
* 87NAHIDIK	108	69.29150	-136.71067	P.HILL/NAHIDIK	BEAUFORT SEA	4.88	259	GRAB	VANVEEN	
* 87NAHIDIK	109	69.29150	-136.71167	P.HILL/NAHIDIK	BEAUFORT SEA	4.88	259	CORE	VIBRACORE	268.0
* 87NAHIDIK	110	69.00883	-137.56467	P.HILL/NAHIDIK	BEAUFORT SEA		259	GRAB		
* 87NAHIDIK	111	69.07067	-137.83383	P.HILL/NAHIDIK	BEAUFORT SEA	0.61	259	WATER		
* 87NAHIDIK	112	69.07033	-137.83367	P.HILL/NAHIDIK	BEAUFORT SEA	0.61	259	CORE	VIBRACORE	80.0
* 87NAHIDIK	113	69.07067	-137.83400	P.HILL/NAHIDIK	BEAUFORT SEA	1.98	259	CORE		94.0
* 87NAHIDIK	114	69.07067	-137.83400	P.HILL/NAHIDIK	BEAUFORT SEA	1.98	259	GRAB	VANVEEN	
* 87NAHIDIK	115	69.07050	-137.83433	P.HILL/NAHIDIK	BEAUFORT SEA	1.98	259	GRAB	VANVEEN	
* 87NAHIDIK	116	69.07067	-137.83350	P.HILL/NAHIDIK	BEAUFORT SEA	1.98	259	CORE	VIBRACORE	130.0
* 87NAHIDIK	117	69.07100	-137.83167	P.HILL/NAHIDIK	BEAUFORT SEA	4.58	259	CORE		168.0
* 87NAHIDIK	118	69.07083	-137.83233	P.HILL/NAHIDIK	BEAUFORT SEA	4.78	259	GRAB	VANVEEN	
* 87NAHIDIK	119	69.59450	-132.99517	P.HILL/NAHIDIK	BEAUFORT SEA	5.00	260	GRAB		
* 87NAHIDIK	120	69.59383	-132.98983	P.HILL/NAHIDIK	BEAUFORT SEA	5.00	260	GRAB		
* 87NAHIDIK	121	69.59383	-132.98983	P.HILL/NAHIDIK	BEAUFORT SEA	5.00	260	GRAB		
* 87NAHIDIK	122	69.59450	-132.99700	P.HILL/NAHIDIK	BEAUFORT SEA	5.19	260	WATER		
* 87NAHIDIK	123	69.59450	-132.99700	P.HILL/NAHIDIK	BEAUFORT SEA	5.19	260	GRAB	VANVEEN	
* 87NAHIDIK	124	69.59450	-132.99583	P.HILL/NAHIDIK	BEAUFORT SEA	5.19	260	CORE	VIBRACORE	104.0
* 87NAHIDIK	125	69.59450	-132.99617	P.HILL/NAHIDIK	BEAUFORT SEA	5.19	260	CORE	VIBRACORE	134.0
* 87NAHIDIK	126	69.59350	-132.99067	P.HILL/NAHIDIK	BEAUFORT SEA	3.66	260	GRAB	VANVEEN	
* 87NAHIDIK	127	69.59367	-132.98967	P.HILL/NAHIDIK	BEAUFORT SEA	3.66	260	CORE	VIBRACORE	52.0
* 87NAHIDIK	128	69.50917	-133.10867	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	261	WATER		
* 87NAHIDIK	129	69.50917	-133.10867	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	261	GRAB	VANVEEN	
* 87NAHIDIK	130	69.50950	-133.10783	P.HILL/NAHIDIK	BEAUFORT SEA	6.10	261	CORE	VIBRACORE	86.0
* 87NAHIDIK	131	69.51650	-133.10883	P.HILL/NAHIDIK	BEAUFORT SEA	5.19	261	GRAB	VANVEEN	
* 87NAHIDIK	132	69.51683	-133.10817	P.HILL/NAHIDIK	BEAUFORT SEA	5.19	261	CORE	VIBRACORE	23.0
* 87NAHIDIK	133	69.52183	-133.10933	P.HILL/NAHIDIK	BEAUFORT SEA	5.49	261	GRAB	VANVEEN	
* 87NAHIDIK	134	69.52217	-133.10867	P.HILL/NAHIDIK	BEAUFORT SEA	5.49	261	CORE	VIBRACORE	71.0
* 87NAHIDIK	135	69.52900	-133.10983	P.HILL/NAHIDIK	BEAUFORT SEA	5.79	261	GRAB	VANVEEN	
* 87NAHIDIK	136	69.52917	-133.10933	P.HILL/NAHIDIK	BEAUFORT SEA	5.79	261	CORE	VIBRACORE	276.0

SAMPLE LØCATIØNS - 87 ARKTIS IV/3.
1:2500000 (MERCATØR, 87N).

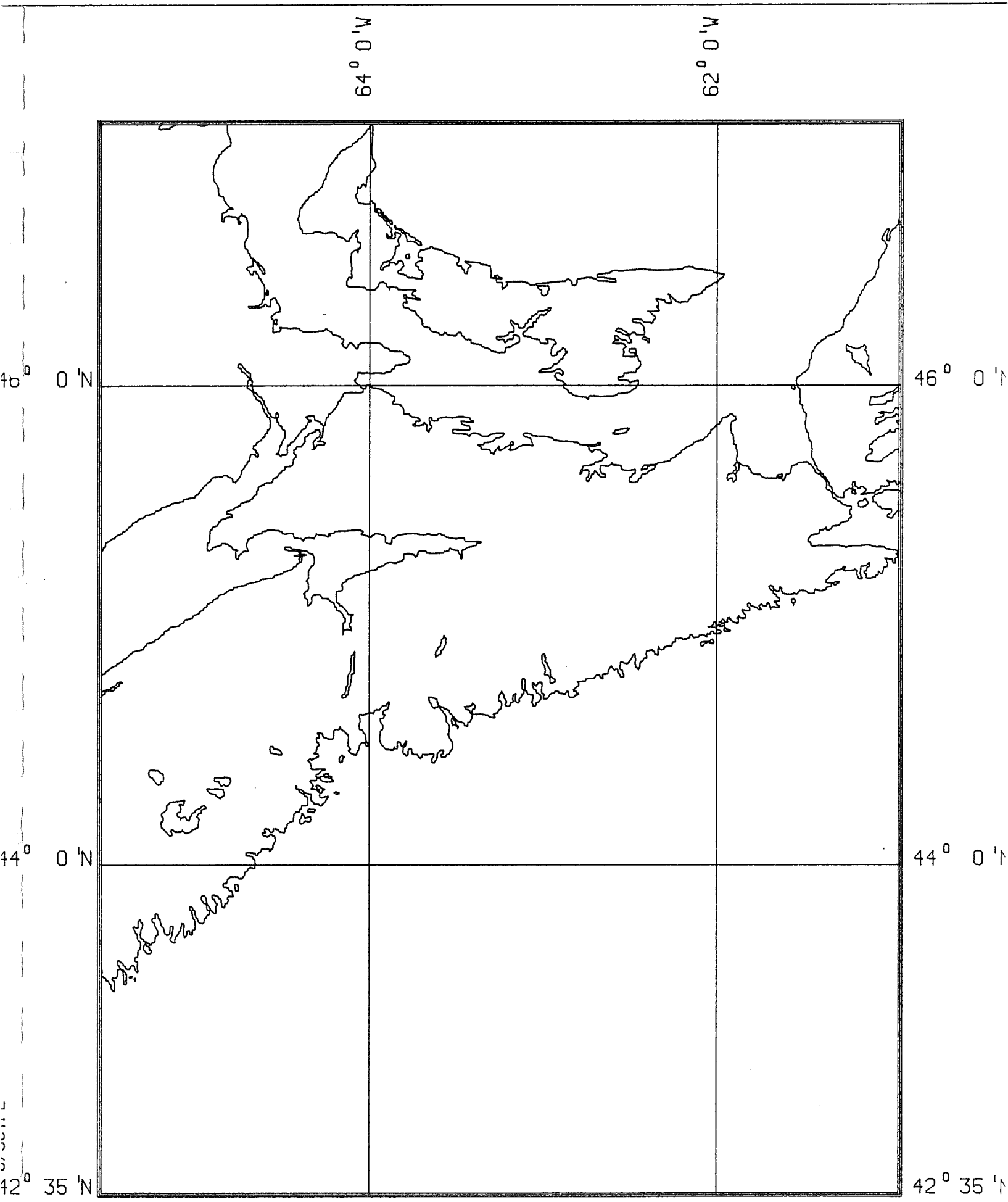


	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87ARKTIS IV/3	269	81.27167	-31.40000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	198.00	188	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	269	81.27167	-31.44167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	200.00	188	CORE	BOX	41.0
*	87ARKTIS IV/3	269	81.27167	-31.39167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	198.00	188	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	272	81.33333	-31.32500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	200.00	188	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	274	81.43833	-31.33833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	257.00	189	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	276	81.49500	-31.44167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	577.00	189	CORE	BOX	50.0
*	87ARKTIS IV/3	276	81.51833	-31.42333	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	571.00	189	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	278	81.52500	-31.52500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	750.00	189	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	278	81.53000	-31.57667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	701.00	189	CORE	BOX	48.0
*	87ARKTIS IV/3	280	81.58167	-31.60667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	021.00	189	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	280	81.57500	-31.65000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	886.00	190	CORE	BOX	40.0
*	87ARKTIS IV/3	282	81.58167	-31.54000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	398.00	190	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	282	81.59667	-31.52500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	404.00	190	CORE	BOX	43.0
*	87ARKTIS IV/3	282	81.59667	-31.50000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	436.00	190	CORE	GRAVITY	300.0
*	87ARKTIS IV/3	285	81.64333	-31.50000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	900.00	190	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	285	81.64167	-31.43500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	063.00	190	CORE	BOX	70.0
*	87ARKTIS IV/3	287	81.68000	-31.17833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	814.00	191	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	287	81.67667	-31.05667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	775.00	191	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	287	81.67333	-30.85000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	876.00	192	CORE	BOX	40.0
*	87ARKTIS IV/3	287	81.67167	-30.83167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	837.00	192	CORE	BOX	35.0
*	87ARKTIS IV/3	296	81.79000	-31.50167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	998.00	194	CORE	GRAVITY	510.0
*	87ARKTIS IV/3	296	81.79167	-31.50500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	004.00	193	CORE	BOX	34.0
*	87ARKTIS IV/3	296	81.81000	-31.58833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	009.00	193	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	310	82.16667	-31.90333	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	056.00	194	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	310	82.00000	-32.00000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	981.00	194	CORE	BOX	35.0
*	87ARKTIS IV/3	340	83.00833	-31.88167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	788.00	198	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	340	82.95000	-32.05833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	755.00	198	CORE	BOX	28.0

*	87ARKTIS IV/3	341	82.89667	-32.31667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	688.00	200	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	346	83.11500	-30.68333	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	937.00	200	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	352A	83.72833	-30.37333	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	985.00	201	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	358	84.01000	-30.31667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	045.00	202	CORE	BOX	36.0
*	87ARKTIS IV/3	362	85.07000	-29.28500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	037.00	207	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	362	85.07667	-29.12667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	037.00	207	CORE	BOX	24.0
*	87ARKTIS IV/3	364	85.35833	-26.33167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	634.00	208	CORE	BOX	38.0
*	87ARKTIS IV/3	365	85.51333	-25.29667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	127.00	209	CORE	BOX	35.0
*	87ARKTIS IV/3	365	85.52333	-25.29167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	366.00	209	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	370	85.89833	-22.75000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	539.00	212	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	371	86.09667	-22.01667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	704.00	216	CORE	BOX	38.0
*	87ARKTIS IV/3	372	86.13000	-23.15833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	972.00	218	CORE	BOX	41.0
*	87ARKTIS IV/3	376	85.38000	-21.87000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	869.00	222	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	376	85.38167	-21.70833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	896.00	222	CORE	BOX	31.0
*	87ARKTIS IV/3	381	83.82833	-20.41667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	060.00	225	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	385	83.22667	-19.15833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	024.00	226	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	391	82.92000	-17.47000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	058.00	226	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	392	82.89167	-17.40667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	053.00	226	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	395	82.84500	-16.75833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	480.00	227	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	396	82.79667	-16.05500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	377.00	227	CORE	BOX	37.0
*	87ARKTIS IV/3	397	82.80000	-15.97667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	328.00	227	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	399	82.66167	-15.84833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	377.00	227	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	401	82.55333	-15.86667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	357.00	227	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	403	82.42667	-15.81667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	485.00	227	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	405	82.33667	-15.69500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	781.00	227	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	407	82.23167	-15.61167	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	413.00	228	SNOW/ICE	ICE CORE	
*	87ARKTIS IV/3	409	82.12833	-15.55667	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	516.00	228	SNOW/ICE	ICE CORE	

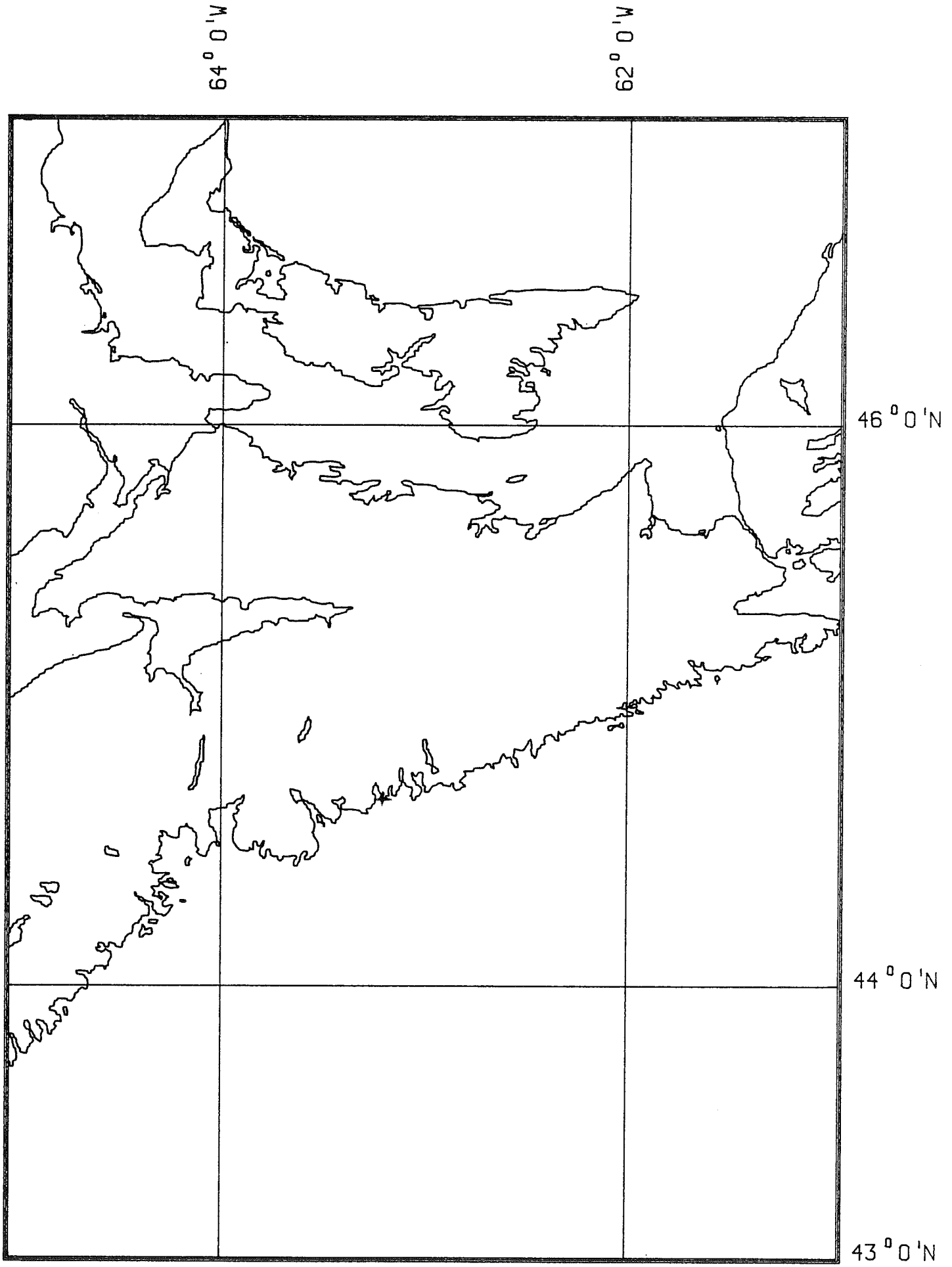
* 87ARKTIS IV/3	411	82.03000	-15.33500	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	147.00	228	SNOW/ICE	ICE CORE	
* 87ARKTIS IV/3	413	82.01000	-15.17333	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	225.00	228	SNOW/ICE	ICE CORE	
* 87ARKTIS IV/3	423	81.32667	-15.29833	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	265.00	228	CORE	BOX	38.0
* 87ARKTIS IV/3	430	78.75333	-1.79000	P.MUDIE/POLARSTERN	EASTERN ARCTIC OCEAN	554.00	236	CORE	BOX	31.0

SAMPLE LOCATIONS - 87 SCOTS.
1:2100000 (MERCATOR, 47N).



	CRUISE	STATION	LATITUDE	LONGITUDE	SCIRNTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87SCOTS	872	45.30233	-64.39833	J.SHAW/NO SHIP	SCOTS BAY, N.S.	0.00	238	CORE	HILLER	113.0
*	87SCOTS	873	45.30167	-64.40000	J.SHAW/NO SHIP	SCOTS BAY, N.S.	0.00	238	CORE	HILLER	400.0

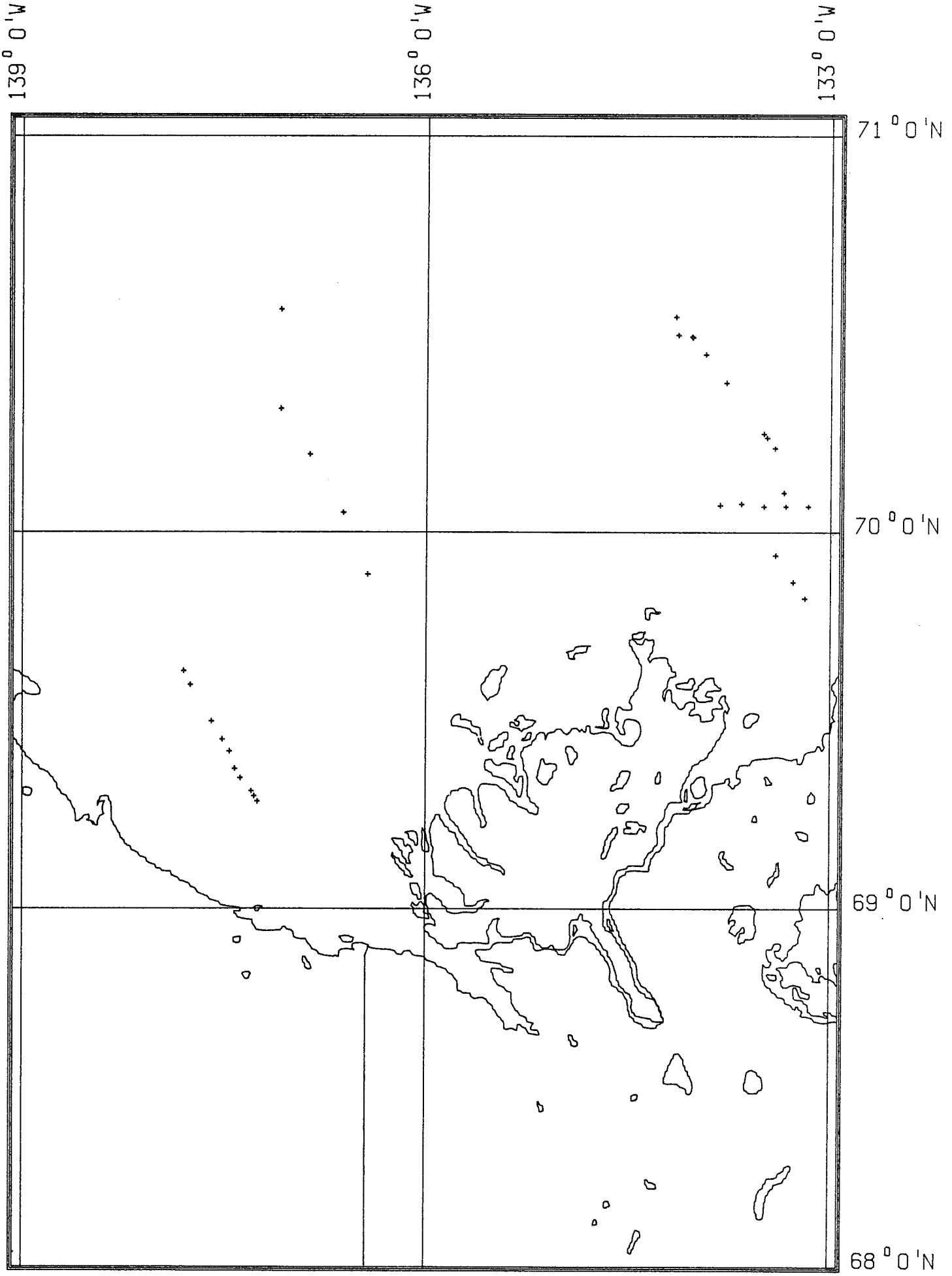
SAMPLE LOCATIONS - 87 STORY HEAD.
1:1910000 (MERCATOR, 47N).



87STHP1

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	JULIAN DATE	SAMPLE	TYPE	LENGTH
*	87STORY HEAD	08704-004	44.67500	-63.20833	J. SHAW	ESTUARY BEHIND STORY HEAD BARRIER, EASTERN SHORE N.S.	135	CORE	VIBRACORE	381.0

SAMPLE LOCATIONS - 87 TULLY.
1:1435000 (MERCATOR, 70N).



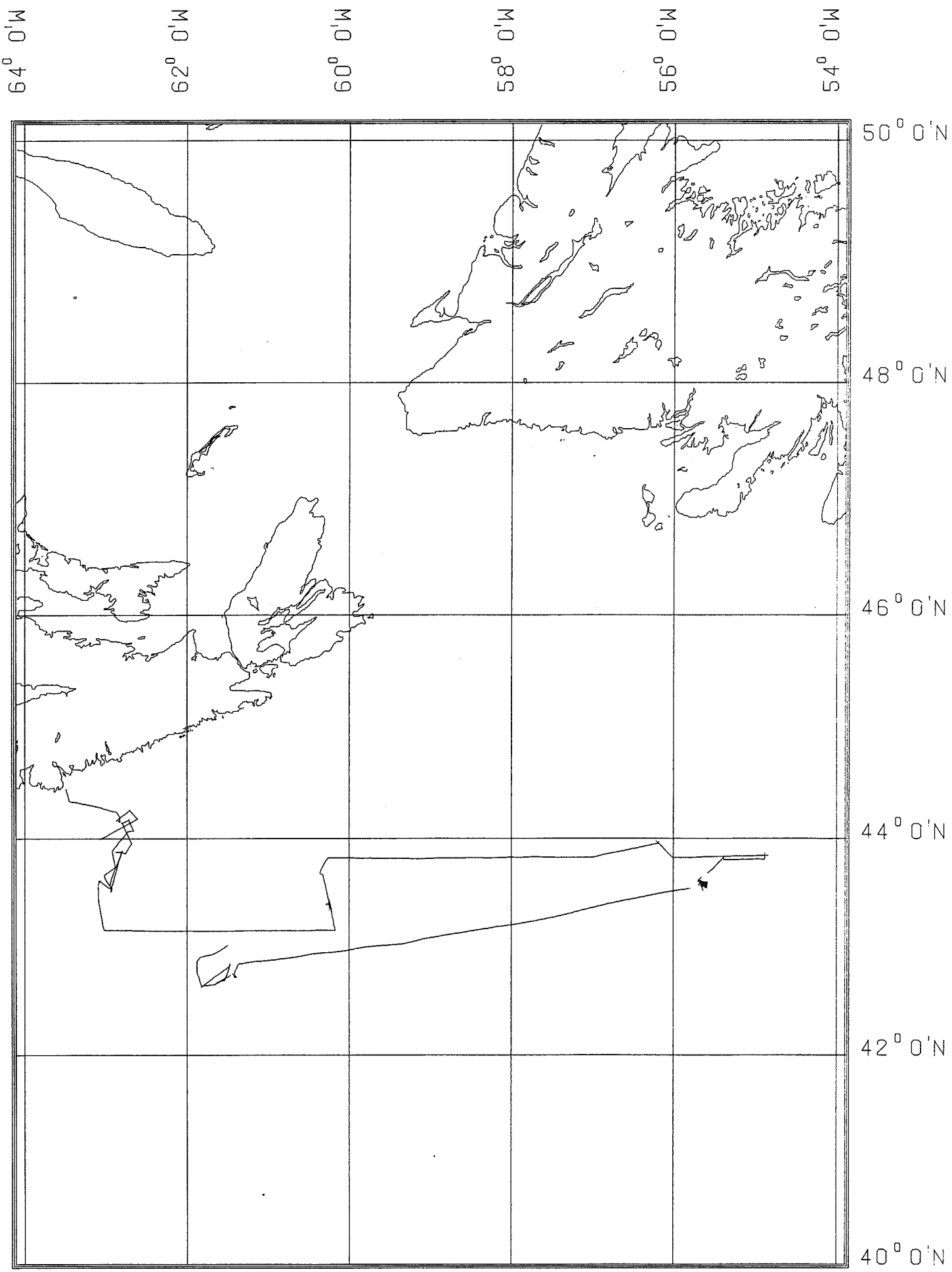
R7TLLPI

	CRUISE	STATION	LATITUDE	LONGITUDE	SCIENTIST - SHIP	GEOGRAPHIC AREA	DEPTH	JULIAN	SAMPLE	TYPE	LENGTH
*	87TULLY	001	69.63667	-137.80000	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	67.00	222	GRAB	SHIPEK	
*	87TULLY	002	69.60000	-137.75000	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	62.00	222	GRAB	SHIPEK	
*	87TULLY	003	69.50333	-137.59167	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	52.00	222	GRAB	SHIPEK	
*	87TULLY	004	69.45500	-137.51167	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	47.00	222	GRAB	SHIPEK	
*	87TULLY	005	69.42333	-137.45833	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	42.00	222	GRAB	SHIPEK	
*	87TULLY	006	69.37683	-137.41900	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	35.00	222	GRAB	SHIPEK	
*	87TULLY	007	69.35217	-137.37683	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	31.00	222	GRAB	SHIPEK	
*	87TULLY	008			HARMES,R./HILL,P./TULLY	BEAUFORT SEA	27.00	222	GRAB	SHIPEK	
*	87TULLY	009	69.31700	-137.29533	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	21.00	222	GRAB	SHIPEK	
*	87TULLY	010	69.30367	-137.27433	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	18.50	222	GRAB	SHIPEK	
*	87TULLY	011	69.28967	-137.25150	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	11.50	222	GRAB	SHIPEK	
*	87TULLY	012	69.89000	-136.43333	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	18.50	222	GRAB	SHIPEK	
*	87TULLY	013	70.05000	-136.61667	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	32.00	222	GRAB	SHIPEK	
*	87TULLY	014	70.20000	-136.86667	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	46.00	222	GRAB	SHIPEK	
*	87TULLY	015	70.31667	-137.08333	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	64.00	222	GRAB	SHIPEK	
*	87TULLY	016	70.56833	-137.08333	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	57.00	223	GRAB	SHIPEK	
*	87TULLY	017	70.55000	-134.15333	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	56.00	223	GRAB	SHIPEK	
*	87TULLY	018	70.50417	-134.13500	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	60.00	223	GRAB	SHIPEK	
*	87TULLY	019	70.50000	-134.03333	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	59.00	223	GRAB	SHIPEK	
*	87TULLY	020	70.49833	-134.02833	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	60.00	223	GRAB	SHIPEK	
*	87TULLY	021	70.45500	-133.93000	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	56.00	223	GRAB	SHIPEK	
*	87TULLY	022	70.38333	-133.77833	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	53.00	223	GRAB	SHIPEK	
*	87TULLY	023	70.25383	-133.49717	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	42.50	223	GRAB	SHIPEK	
*	87TULLY	024	70.24333	-133.47317	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	38.00	223	GRAB	SHIPEK	
*	87TULLY	025	70.21633	-133.41667	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	32.00	223	GRAB	SHIPEK	
*	87TULLY	026	70.10167	-133.34717	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	25.00	223	GRAB	SHIPEK	
*	87TULLY	027	70.06917	-133.81900	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	27.00	223	GRAB	SHIPEK	
*	87TULLY	028	70.07333	-133.66167	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	27.00	223	GRAB	SHIPEK	
*	87TULLY	029	70.06667	-133.49667	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	27.30	223	GRAB	SHIPEK	
*	87TULLY	030	70.06667	-133.33333	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	24.30	223	GRAB	SHIPEK	
*	87TULLY	031	70.06667	-133.16667	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	21.00	223	GRAB	SHIPEK	
*	87TULLY	032	69.94000	-133.41000	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	18.40	223	GRAB	SHIPEK	
*	87TULLY	033	69.87000	-133.27500	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	12.00	223	GRAB	SHIPEK	
*	87TULLY	034	69.82833	-133.19000	HARMES,R./HILL,P./TULLY	BEAUFORT SEA	11.00	223	GRAB	SHIPEK	

APPENDIX III - RECORDS

Cruises	Geographic Area
87003	Scotian Shelf
87008	Southeast Grand Banks, Flemish Pass
87014	Eastern Grand Banks
87019	Grand Banks of Newfoundland, Flemish Cap
87021	(a) Natashquan Deltaic Fan, Gulf of St. Lawrence Estuary (b) North Shore Gulf St. Lawrence
87023	Gulf of St. Lawrence Estuary, Sept. Iles and Ile d'Anticosti to Baie des Chaleurs
87025	Labrador Shelf
87027	Cape Dorset, Labrador Basin
87028	Hudson Bay, Hudson Strait
87031	Hudson Bay
87033	Baffin Island Shelf and Slope, Davis Strait, Hudson Strait, Labrador Shelf and Northeast Newfoundland Shelf
87039	Southeast Scotian Shelf, Slope, Southern Georges Bank
87042	Vicinity Sable Island, Scotian Shelf
87044	Chedabucto and Georges Bay, Nova Scotia
87047	St. Anne's Bay, Ingonish, Cape Breton inshore
87100	Channels in the Lougheed Island/King Christian Island region, Arctic Islands
87200	Ice Island, Axel Heiberg Shelf
87400	Grand Banks
87401	Northumberland Strait, PEI and N.B.
87 Ellice Island	Eastern Mackenzie Bay, West of Richards Island, N.W.T.
87 Farnella	Southern Scotian Shelf, Slope, George's Bank, joint USGS cruise
87 Karluk	Tuktoyaktuk Peninsula Coast and Inner Beaufort Sea Shelf
86 Nahidik	Beaufort Sea
87 Nahidik	Beaufort Sea

87-003 CSS HUDSON
1-4.5 MILLION AT 50N



AIRGUN SEISMIC RECORDS 87-003

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.	HYDRO-PHONE
001	094/0135	094//1200	Lines 1-7	Emerald Basin	L.S.R.	N.S.R.F.
002	094/2213	095/1000	Lines 10-18	Emerald Basin	L.S.R.	N.S.R.F.
001	094/2215	095/1000	Lines 10-18	Emerald Basin	L.S.R.	S.E. 100'
002	096/1420	097/0130	Line 19	Logan Canyon	L.S.R.	S.E. 100'
003	098/0140	098/1017	Line 20	Laurentian Fan	L.S.R.	S.E. 100'
004	098/2335	099/0522	Line 21	Laurentian Fan	L.S.R.	S.E. 100'
001	096/1520	097/0130	Line 19	Logan Canyon	L.S.R.	S.E. 25'
002	098/0140	098/1017	Line 20	Laurentian Fan	L.S.R.	S.E. 25'
003	098/2335	099/0522	Line 21	Laurentian Fan	L.S.R.	S.E. 25'

AIRGUN SEISMIC TAPES 87-003

TAPE #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	CHANNELS
001	094/0123	095/0007	Lines 1-7, 10-12	Emerald Basin	1-(DR) 100' SE 3-(FM) N.S.R.F. 4-(FM) Shot
002	095/0009	096/2300	Lines 12-19	Emerald B/Logan Can	1-(DR) 100' SE 3-(FM) N.S.R.F. 4-(FM) Shot

HUNTEC D.T.S. RECORDS 87-003

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.	HYDRO-PHONE
001	094/0021	094/1137	Lines 1-7	Emerald Basin	EPC	External
002	094/1539	094/1659	Line 8	Emerald Basin	EPC	External
003	094/1750	094/1848	Line 9	Emerald Basin	EPC	External
004	094/2217	095/0100	Lines 10, 11, 12	Emerald Basin	EPC	External
005	095/0100	095/1000	Lines 13-18	Emerald Basin	EPC	External
006	096/1420	097/0130	Line 19	Logan Canyon	EPC	External
001	094/0021	094/1137	Lines 1-7	Emerald Basin	EPC	Internal
002	094/1544	094/1658	Line 8	Emerald Basin	EPC	Internal
003	094/1750	094/1848	Line 9	Emerald Basin	EPC	Internal
004	094/2212	095/0045	Lines 10-12	Emerald Basin	EPC	Internal
005	095/0100	095/1000	Lines 13-18	Emerald Basin	EPC	Internal
006	096/1405	097/0130	Line 19	Logan Canyon	EPC	Internal

AIRGUN SEISMIC TAPES 87-003

TAPE #	START DAY/TIME	STOP DAY/TIME	LINE #	GEO-GRAPHIC LOCATION	CHAN-NELS	NOTES
001			Lines 1, 2, 3, 3A	Bedford Basin Survey	1-Internal 2-Trigger 3-External	Boomer Mode
002	094/0031	094/0342	Lines 1, 2, 3, 4	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
003	094/0400	094/0655	Lines 5, 6	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
004	094/0657	094/1009	Lines 6, 7	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
005	094/1011	094/1821	Lines 7, 8, 9	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
006	094/1823	095/0111	Lines 9-12	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
007	095/0112	095/0425	Lines 13-15	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
008	095/0427	095/0742	Lines 15-17	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
009	095/0742	096/1522	Lines 17-19	Emerald Basin	1-Internal 2-Trigger 3-External	Boomer Mode
010	096/1524	097/0017	Line 19	Logan Canyon	1-Internal 2-Trigger 3-External	Sparker Mode

12 kHz BATHYMETRY RECORDS 87-003

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.
001	093/2205	094/1400		Emerald Basin	LSR
002	094/1404	095/0055		Emerald Basin	LSR
003	095/0100	095/1245		Emerald Basin	LSR
004	095/1330	095/2155		Run to Logan Canyon	LSR
005	095/2200	096/0620		Run to Logan Canyon	LSR
006	096/0655	097/0710		Logan C/Laurentian F	LSR
007	097/0710	098/2020		To Laurentian Fan	LSR
008	098/2030	099/0605		Laurentian Fan	LSR
009	099/0615	100/1015		Laurentian Fan	LSR
010	100/1020	101/1015		Laurentian Fan	LSR

87-008 CSS HUDSON
1-7.5 MILLION AT 53N

12 kHz BATHYMETRY RECORDS 87-008

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.
001	111/1330	112/1000		To Laurentian Fan	LSR
002	112/1000	113/1500		Laurentian Fan	LSR
003	113/1500	114/1315		S. Grand Banks Margin	LSR
004	114/1340	115/1330		S. Grand Banks Margin	LSR
005	113/1345	117/2100		S. Grand Banks Margin	LSR
006	117/2100	119/1805		S. Grand Banks Margin	LSR
007	119/1810	122/1150		S. G. Banks/Flemish P.	LSR
008	122/1205	123/2359		Flemish Pass	LSR
009	124/0000	125/1700		Flemish Pass	LSR

AIRGUN SEISMIC TAPES 87-008

TAPE #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	CHANNELS
001	112/2231	114/0753	Lines 1-7	L. Fan/S.G.B. Margin	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
002	114/0756	116/0400	Lines 7-11	S. Grand Banks Margin	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
003	116/0400	117/0409	Lines 1--16	S. Grand Banks Margin	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
004	117/0409	118/0810	Lines 16-23	S. Grand Banks Margin	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
005	118/1048	123/0133	Lines 24-25	S.G. Banks/F. Pass	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
006	123/0135	124/0105	Lines 26-31	Flemish Pass	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
007	124/0107	125/0122	Lines 31-38	Flemish Pass	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot
008	125/0016	125/1630	Lines 38-39	Flemish Pass	1-(DR) 100' SE 2-(DR) 25' SE 3-(FM) N.S.R.F. 4-(FM) Shot

AIRGUN SEISMIC RECORDS 87-008

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.	HYDRO-PHONE
001	112/2305	113/ 0425	Lines 1-2	Laurentian Fan	L.S.R.	S.E. 100'.
002	114/0000	114 / 0940	Lines 3-7	S. Grand Bank Margin	L.S.R.	S.E. 100'.
003	114/2148	115/ 0520	Line 8	S. Grand Bank Margin	L.S.R.	S.E. 100'.
005	116/1950	117/1705	Lines 16-18	S. Grand Bank Margin	L.S.R.	S.E. 100'.
006	118/0105	118/1948	Lines 19-24	S. Grand Bank Margin	L.S.R.	S.E. 100'.
007	122/2210	123/0810	Lines 26-27	Flemish Pass	L.S.R.	S.E. 100'.
008	123/1915	124/0910	Lines 29-35	Flemish Pass	L.S.R.	S.E. 100'.
009	124/2100	125/0140	Lines 36-38	Flemish Pass	L.S.R.	S.E. 100'.
010	125/1500	125/1642	Line 39	Flemish Pass	L.S.R.	S.E 25'
001	112/2305	113/0425	Lines 1-2	Laurentian Fan	L.S.R.	S.E 25'
002	114/0000	114/0940	Lines 3-7	S. Grand Bank Margin	L.S.R.	S.E 25'
003	114/2148	115/0520	Line 8	S. Grand Bank Margin	L.S.R.	S.E 25'
004	115/2300	116/0835	Lines 9-13	S. Grand Bank Margin	L.S.R.	S.E 25'
005	116/1950	117/1705	Lines 16-18	S. Grand Bank Margin	L.S.R.	S.E 25'
006	118/0105	118/1948	Lines 19-24	S. Grand Bank Margin	L.S.R.	S.E 25'
007	122/2210	123/0810	Lines 26-27	Flemish Pass	L.S.R.	S.E 25'
008	123/1915	124/0910	Lines 29-35	Flemish Pass	L.S.R.	S.E 25'
009	124/2100	125/0140	Lines 36-38	Flemish Pass	L.S.R.	S.E 25'
010	125/1500	125/1642	Line 39	Flemish Pass	L.S.R.	S.E 25'

HUNTEC D.T.S. TAPES 87-008

TAPE #	START DAY/TIME	STOP DAY/TIME	LINE #	GEO-GRAPHIC LOCATION	CHAN-NELS	NOTES
001	112/2303	113/0216	Lines 1-2	Laurentian Fan	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
002	113/0217	114/0028	Lines 2-3	L. Fan/G. Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
003	114/0029	114/0344	Lines 3-6	S. Grand Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
004	114/0345	114/0657	Lines 6-7	S. Grand Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
005	114/0657	114/2256	Lines 7-8	S. Grand Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
006	114/2257	115/0210	Line 8	S. Grand Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
007	115/0210	115/0517	Line 8	S. Grand Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode
008	116/0440	116/0809	Lines 11-13	S. Grand Banks Margin	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker Mode

HUNTEC D.T.S. TAPES 87-008 (Continued)

TAPE #	START DAY/TIME	STOP DAY/TIME	LINE #	GEO-GRAPHIC LOCATION	CHAN-NELS	NOTES
009	116/0810	123/0446	Lines 13 and 27	S.G. Banks, F. Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Sparker/ Boomer Mode
010	123/0447	123/0749	Line 27	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Boomer Mode
011	123/2000	123/2311	Lines 29-31	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Boomer Mode
012	123/2312	124/0227	Line 31	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Boomer Mode
013	124/0228	124/0547	Lines 31-33	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Boomer Mode
014	124/0545	124/0857	Lines 33-35	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Boomer Mode
015	124/2100	125/0015	Lines 36-38	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	Boomer Mode
016	125/0016	125/1630	Lines 38-39	Flemish Pass	1-Internal 2-Trigger 3-External 4-Time Fix	

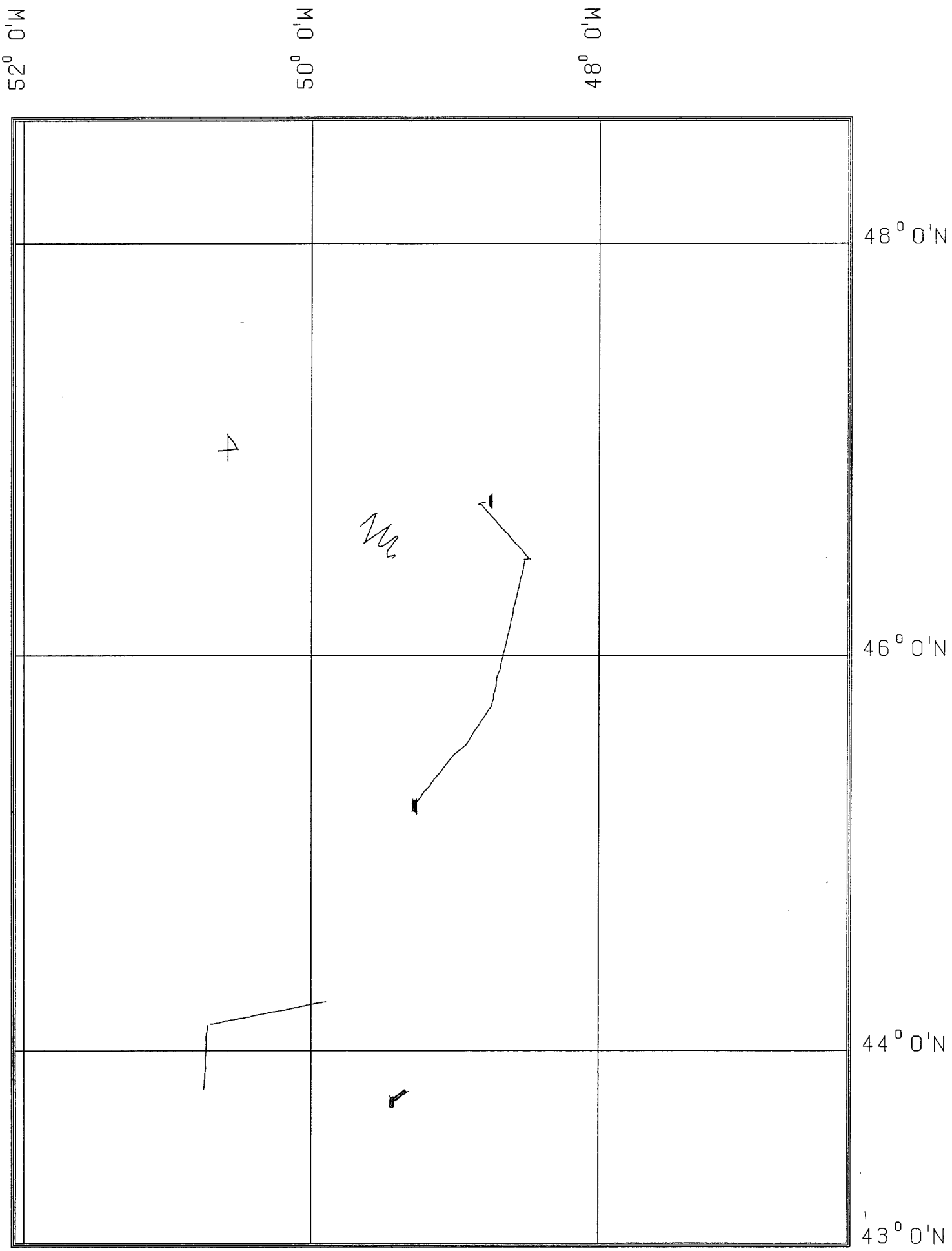
HUNTEC D.T.S. RECORDS 87-008

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.	HYDRO-PHONE
001	112/2315	113/0425	Lines 1-2	Laurentian Fan	EPC	External
002	113/2328	114/0107	Lines 3-4	S. Grand Bank Margin	EPC	External
003	114/0110	114/0940	Lines 4-7	S. Grand Bank Margin	EPC	External
004	114/2200	115/0440	Line 8	S. Grand Bank Margin	EPC	External
005	115/0440	115/0520	Line 8	S. Grand Bank Margin	EPC	External
006	116/0440	116/1122	Lines 11-14	S. Grand Bank Margin	EPC	External
007	123/0210	123/0750	Lines 25-27	Flemish Pass	EPC	External
008	123/2010	124/0910	Lines 29-35	Flemish Pass	EPC	External
009	124/2057	124/2203	Line 36	Flemish Pass	EPC	External
010	124/2203	125/0123	Lines 36-38	Flemish Pass	EPC	External
011	125/1423	125/1640	Line 39	Flemish Pass	EPC	External
001	112/2305	113/0425	Lines 1-2	Laurentian Fan	EPC	Internal
002	113/2327	114/0940	Lines 3-7	S. Grand Bank Margin	EPC	Internal
003	114/2200	115/0520	Line 8	S. Grand Bank Margin	EPC	Internal
004	116/0440	116/1122	Lines 11-14	S. Grand Bank Margin	EPC	Internal
005	123/0210	123/0750	Lines 25-27	Flemish Pass	EPC	Internal
006	123/2010	124/0910	Lines 29-35	Flemish Pass	EPC	Internal
007	124/2047	125/0045	Lines 36-38	Flemish Pass	EPC	Internal
008	125/0047	125/0123	Line 38	Flemish Pass	EPC	Internal
009	125/1423	125/1640	Line 39	Flemish Pass	EPC	Internal

3.5 ACOUSTIC PROFILER RECORDS 87-008

ROLL #	START DAY/TIME	STOP DAY/TIME	LINE #	GEOGRAPHIC LOCATION	REC.
001	111/1355	114/0950	Lines 1-7	L. Fan/S.G. Banks	EPC
002	114/2210	115/0455	Line 8	S. Grand Bank Margin	EPC
003	115/2300	116/0850	Lines 9-13	S. Grand Bank Margin	EPC
004	116/1030	116/1710	Line 14	S. Grand Bank Margin	EPC
005	116/1728	117/1820	Lines 15-18	S. Grand Bank Margin	EPC
006	118/0110	118/1145	Lines 19-24	S. Grand Bank Margin	EPC
007	122/1040	122/1525	Line 25	Flemish Pass	EPC
008	122/1540	123/0415	Lines 25-27	Flemish Pass	EPC
009	123/0630	123/1750	Lines 27-28	Flemish Pass	EPC
010	123/1940	124/0835	Lines 29-34	Flemish Pass	EPC
011	124/2057	125/0436	Lines 36-38	Flemish Pass	EPC

87-014 CSS HUDSON
1-2.5 MILLION AT 50N



87014

LINES RUN ON 87-014 AND DATA RECORDED

ROLL #	START DAY/ TIME	STOP DAY/ TIME	12-KHZ	26-B	HUNTEC	SEIS-MICS	KLEIN S/S	AGC S/S
1	127/2030	127/2134	X	X	X	X		X
2	127/2134	127/2250	X	X	X	X		X
3	127/2250	128/0030	X	X	X	X		X
4	128/0445	128/0600	X	X	X	X	X	X
5	128/0615	128/0807	X	X	X	X	X	X
6	128/0819	128/0955	X	X	X	X	X	X
7	128/1013	128/1138	X	X	X	X	X	X
8	128/1155	128/1250	X	X	X	X	X	X
9	128/1302	128/1353	X	X	X	X	X	X
10	128/1412	128/1442	X	X	X	X	X	X
11	128/1442	128/1500	X	X	X	X	X	X
12	129/0216	129/0247	X	X	X	X	X	X
13	129/0300	129/0328	X	X	X	X	X	X
14	129/0334	129/0410	X	X	X	X	X	X
15	129/0415	129/0450	X	X	X	X	X	X
16	129/0457	129/0536	X	X	X	X	X	X
17	129/0541	129/0617	X	X	X	X	X	X
18	129/0619	129/0703	X	X	X	X	X	X
19	129/0714	129/0750	X	X	X	X	X	X
20	129/0806	129/0850	X	X	X	X	X	X
21	129/0905	129/0940	X	X	X	X	X	X
22	129/0957	129/1037	X	X	X	X	X	X
23	129/1051	129/1131	X	X	X	X	X	X
24	129/1150	129/1228	X	X	X	X	X	X
25	129/1249	129/1325	X	X	X	X	X	X
26	129/1344	129/1420	X	X	X	X	X	X
27	129/1411	129/1512	X	X	X	X	X	X
28	129/1525	129/1548	X	X	X	X	X	X
29	129/1552	129/1600	X	X	X	X	X	X
30	129/2245	130/1920	X	X	X	X	X	X

LINES RUN ON 87-014 AND DATA RECORDED (CONTINUED)

ROLL #	START DAY/ TIME	STOP DAY/ TIME	12-KHZ	26-B	HUNTEC	SEIS-MICS	KLEIN S/S	AGC S/S
31	130/2305	131/0045	X	X	X	X	X	X
32	131/0055	131/0138	X	X	X	X	X	X
33	131/0153	131/0232	X	X	X	X	X	X
34	131/0244	131/0320	X	X	X	X	X	X
35	131/0328	131/0355	X	X	X	X		
36	131/0415	131/0454	X	X	X	X	X	X
37	131/0500	131/0535	X	X	X	X	X	X
38	131/1544	131/0621	X		X	X	X	X
39	131/1630	131/0704	X		X	X	X	X
40	131/0724	131/0800	X		X	X	X	X
41	131/0813	131/0845	X		X	X	X	X
42	131/0900	131/0942	X		X	X	X	X
43	131/0955	131/1030	X		X	X	X	X
44	132/0025	132/0130	X		X	X	X	X
45	132/0149	132/0237	X		X	X	X	X
46	132/0250	132/0347	X		X	X	X	X
47	132/0356	132/0442	X		X	X	X	X
48	132/0519	132/0553	X		X	X	X	X
49	132/0558	132/0630	X		X	X	X	X
50	132/0641	132/0716	X		X	X	X	X
51	132/0728	132/0800	X		X	X	X	X
52	132/0815	132/0900	X		X	X	X	X
53	132/0920	132/0955	X		X	X	X	X
54	132/1008	132/1036	X		X	X	X	X
55	132/2339	133/0630	X		X	X	X	X
56	132/0640	133/1036	X		X	X	X	X

KLEIN SIDESCAN SONOGRAMS (100 kHz) 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME	NOTES
001	128/0430	128/1104	
002	128/1108	128/1250	
003	128/1254	128/1609	Buried channel
004	129/0120	129/0346	
005	129/0407	129/0707	0519129 Mobil GBS site
006	129/0708	129/0820	
007	129/0912	129/1047	
008	129/1048	129/1332	
009	129/1332	129/1632	B-08 Glory Hole
010	129/2220	129/2342	Start run from Hibernia to big "W"s
011	129/2352	?	Sidescan hits bottom
012	130/0420	130/0634	
013	130/0634	130/0852	
014	130/0854	130/1156	
015	130/1158	130/1634	Sand ribbons
016	130/1637	130/1926	
017	130/2322	130/0234	"W"s mosaic
018	131/0238	131/0655	"W"s mosaic
019	131/0656	131/1046	"W"s mosaic
020	131/2337	132/0245	Shell beds off Hoyles Canyon
021	132/0246	132/0456	Shell beds off Hoyles Canyon
022	132/0458	132/0748	Shell beds off Hoyles Canyon
023	132/0753	132/1052	Shell beds off Hoyles Canyon
024	132/2326	133/0114	Sand ridges
025	133/0114	133/0340	Sand ridges
026	133/0342	133/0630	Sand ridges
027	133/0634	133/0910	Sand ridges
028	133/0922	133/1038	Sand ridges

BIO SIDESCAN SONOGRAMS (70 kHz) 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME	NOTES
001	127/1940	128/0040	
002	128/0430	128/1515	
003	129/0130	129/1145	
004	129/1145	129/1630	
005	129/2210	130/0150	Terra Nova C-09
006	130/0155	130/1415	
007	130/1415	130/1925	
008	130/2330	131/1040	"W"s mosaic, fish captures net
009	131/2310	132/0215	
010	132/0217	132/1040	
011	132/2330	133/1050	Sand ridges

HUNTEC INTERNAL HYDROPHONE 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME	NOTES
001	127/2010	128/0030	Downing Basin
002	128/0430	128/1500	Buried Channel
003	129/0120	129/1625	
004	129/2230	130/0100	
005	130/0100	130/1920	
006	130/2340	131/1030	
007	131/2350	132/0555	
008	132/0600	132/1035	
009	132/2340	133/1040	Sand Ridges

HUNTEC EXTERNAL HYDROPHONE 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME
001	127/2000	128/0900
002	128/0902	128/1500
003	129/0147	129/1040
004	129/1040	129/1630
005	129/2234	130/1740
006	130/0745	130/1920
007	130/2340	131/1030
008	131/2350	132/0445
009	132/0445	132/1035
010	132/2340	133/0740
011	133/0752	133/1030

3.5 KHZ BATHYMETRY RECORDS 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME
001	125/1730	130/1150
002	130/1420	133/1825

26B ECHOSOUNDER PROFILES 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME
001	127/2000	128/1055
002	128/1100	128/1500
003	129/0225	129/0450
004	129/0505	129/0450
005	129/0622	129/1625
006	129/2210	129/2315
007	2344129/	130/1300
008	130/1310	131/0640

100' HYDROPHONE SEISMIC REFLECTION PROFILES 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME	NOTES
001	127/2000	127/2040	Downing Basin
002	129/2230	130/1830	
003	130/1840	131/1030	
004	131/2347	133/1100	

25' HYDROPHONE SEISMIC REFLECTION PROFILES 87-014

ROLL #	START DAY/TIME	STOP DAY/TIME	NOTES
001	127/2000	128/1500	Downing Basin; buried channel
002	129/0200	129/1630	
003	129/2210	130/1920	
004	130/2335	131/0550	
005	131/0607	131/1030	
006	131/2350	133/1100	

AIRGUN SEISMIC TAPES 87-014

TAPE #	START DAY/TIME	STOP DAY/TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
001	127/2100	128/0645	Lines 1-8	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
002	128/0647	128/1304	Lines 5-8	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
003	128/1306	129/0559	Lines 9-17	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.e. 4-(FM) Shot Trig	
004	129/0601	129/1211	Lines 17-24	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
005	129/1215	130/0018	Lines 24-30	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
006	130/0020	130/0418	Line 30	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
007	130/0420	130/1043	Line 30	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
008	130/1048	130/1708	Line 30	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
009	130/1710	131/0332	Lines 30-34	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
010	131/0334	131/1000	Lines 35-43	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
001	127/2004	128/1220	Lines 1-8	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
002	128/1222	129/1136	Lines 8-23	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
003	129/1137	130/0637	Lines 24-30	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	
004	130/0639	130/1921	Lines 30-31	Grand Banks	1-(DR) 100 S.E. 2-(DR) 25 S.E. 4-(FM) Shot/Trig	

AIRGUN SEISMIC RECORDS 87-014

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE	NOTES
001	127/2000	128/1500	Lines 1-11	Grand Banks	L.S.R.	S.E. 25'	Downing Basin Buried Channel
002	129/0200	129/1630	Lines 12-29	Grand Banks	L.S.R.	S.E. 25'	
003	129/2210	130/1920	Line 30	Grand Banks	L.S.R.	S.E. 25'	
004	130/2335	131/0550	Line 31-38	Grand Banks	L.S.R.	S.E. 25'	
005	131/0607	131/1030	Lines 38-43	Grand Banks	L.S.R.	S.E. 25'	
006	131/2350	133/1100	Lines 44-56	Grand Banks	L.S.R.	S.E. 25'	
001	127/2000	127/2040	Line 1	Grand Banks	L.S.R.	S.E. 100'	
002	129/2230	130/1830	Line 30	Grand Banks	L.S.R.	S.E. 100'	
003	130/1840	131/1030	Lines 30-43	Grand Banks	L.S.R.	S.E. 100'	
004	131/2347	133/1100	Lines 44-56	Grand Banks	L.S.R.	S.E. 100'	

HUNTEC D.T.S TAPES 87-014

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
001	127/2012	127/2325	Lines 1-3	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
002	127/2325	128/0647	Lines 3-5	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
003	128/0650	128/1001	Lines 5-6	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
004	128/1007	128/1317	Lines 7-9	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
005	128/1318	129/0342	Lines 9-14	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
006	129/0344	129/0656	Lines 14-18	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
007	129/0700	129/1012	Lines 18-22	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
008	129/1018	129/1326	Lines 22-25	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
009	129/1327	129/1624	Lines 25-29	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
010	129/2231	130/0145	Line 30	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
011	130/0145	130/0457	Line 30	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	

HUNTEC D.T.S TAPES 87-014 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
012	130/0500	130/0813	Line 30	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
013	130/0815	130/1129	Line 30	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
014	130/1129	130/1444	Line 30	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
015	130/1758	131/0130	Line 30	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
016	130/1758	130/0130	Lines 30-32	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
017	131/0131	131/0445	Lines 32-36	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
018	131/0447	131/0800	Lines 36-40	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
019	131/0803	132/0045	Lines 41-43	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
020	132/0046	132/0412	Lines 44-47	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
021	132/0413	132/0729	Lines 47-50	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
022	132/0729	132/1036	Lines 51-54	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	

HUNTEC D.T.S TAPES 87-014 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
023	132/1818	133/0130	Line 55	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
024	133/0132	133/0444	Line 55	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
025	133/0446	133/0800	Line 56	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	
026	133/0801	133/1036	Line 56	Grand Banks	1-Internal 2-TRG/Sync 3-External 4-Voice Fix	

SIDESCAN TAPES 87-014

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
001	127/2100	128/ 0645	Lines 1-4	Grand Banks		AGC
002	128/0647	128/1304	Lines 5-8	Grand Banks		AGC
003	128/1306	129/0559	Lines 9-17	Grand Banks		AGC
004	129/0601	129/ 1211	Lines 17-24	Grand Banks		AGC
005	129/1215	130/0018	Lines 24-30	Grand Banks		AGC
006	130/0020	130/0418	Line 30	Grand Banks		AGC
007	130/0420	130/1043	Line 30	Grand Banks		AGC
008	130/1048	130/1708	Line 30	Grand Banks		AGC
009	130/1710	131/0332	Line 30	Grand Banks		AGC
010	131/0334	131/1000	Lines 35-43	Grand Banks		AGC
011	131/1000	132/0450	Lines 43-47	Grand Banks		AGC
012	132/0454	132/1045	Lines 48-54	Grand Banks		AGC
013	132/2340	133/0600	Line 55	Grand Banks		AGC
014	133/0601	133/1050	Line 56	Grand Banks		AGC
001	129/0248	129/0609	Lines 1-4	Grand Banks		KLEIN
002	129/0610	129/0955	Lines 4-8	Grand Banks		KLEIN
003	129/0958	129/1311	Lines 9-17	Grand Banks		KLEIN
004	129/1312	129/1626	Lines 17-24	Grand Banks		KLEIN
005	129/2232	130/0534	Lines 24-30	Grand Banks		KLEIN
006	130/0535	130/0920	Line 30	Grand Banks		KLEIN
007	130/0932	130/1245	Line 30	Grand Banks		KLEIN
008	130/1247	130/1600	Line 30	Grand Banks		KLEIN
009	130/1630	130/1918	Line 30	Grand Banks		KLEIN
010	131/0000	131/0244	L:ines 32-33	Grand Banks		KLEIN
011	131/0245	131/0600	Lines 34-38	Grand Banks		KLEIN
012	131/0604	131/0916	Lines 38-42	Grand Banks		KLEIN
013	131/0918	132/0126	Lines 42-44	Grand Banks		KLEIN
014	132/0128	132/0447	Lines 45-47	Grand Banks		KLEIN
015	132/0449	132/0750	Lines 48-51	Grand Banks		KLEIN

SIDESCAN TAPES 87-014 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
016	132/0752	132/1045	Lines 51-54	Grand Banks		KLEIN
017	132/2340	133/0249	Line 55	Grand Banks		KLEIN
019	133/0604	133/0918	Line 55	Grand Banks		KLEIN
020	133/0918	133/1050	Line 56	Grand Banks		KLEIN

SIDESCAN RECORDS 87-014

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE	NOTES
001	128/0430	128/1104	Lines 1-7	Grand Banks	Klein		
002	128/1108	128/1250	Lines 7-8	Grand Banks	Klein		
003	128/1254	128/1609	Lines 8-11	Grand Banks	Klein		Buried Channel
004	129/0120	129/0346	Lines 12-13	Grand Banks	Klein		
005	129/0407	129/0707	Lines 14-18	Grand Banks	Klein		Mobile GBS Site
006	129/0708	129/0820	Lines 18-20	Grand Banks	Klein		
007	129/0912	129/1047	Lines 21-22	Grand Banks	Klein		
008	129/1048	129/1332	Lines 23-25	Grand Banks	Klein		
009	129/1332	129/1632	Lines 26-29	Grand Banks	Klein		B-08 Glory Hole
010	129/2220	129/2342	Lines 30-31	Grand Banks	Klein		Start run from Hibernia-Big "W"'s
011	129/2352		Line 30	Grand Banks	Klein		Sidescan hits bottom
012	130/0420	130/ 0634	Line 30	Grand Banks	Klein		
013	130/0634	130/0852	Line 30	Grand Banks	Klein		
014	130/0854	130/1156	Line 30	Grand Banks	Klein		
015	130/1158	130/1634	Line 30	Grand Banks	Klein		Sand Ribbons
016	130/1637	130/1926	Line 30	Grand Banks	Klein		
017	130/2322	131/0234	Lines 31-33	Grand Banks	Klein		"W"'s Mosaic
018	131/0238	131/0655	Lines 34-39	Grand Banks	Klein		"W"'s Mosaic
019	131/0656	131/1046	Lines 39-43	Grand Banks	Klein		"W"'s Mosaic
020	131/2337	132/0245	Lines 44-45	Shell Beds Off	Klein		Hoyles Canyon
021	132/0246	132/0456	Lines 46-47	Shell Beds Off	Klein		Hoyles Canyon
022	132/0458	132/0748	Lines 48-51	Shell Beds Off	Klein		Hoyles Canyon
023	132/0753	132/1052	Lines 51-54	Shell Beds Off	Klein		Hoyles Canyon
024	132/2326	133/0114	Line 55	Grand Banks	Klein		Sand Ridges
025	133/0114	133/0340	Line 55	Grand Banks	Klein		Sand Ridges
026	133/0342	133/0630	Line 55	Grand Banks	Klein		Sand Ridges
027	133/0634	133/0910	Line 56	Grand Banks	Klein		Sand Ridges
028	133/0922	133/1038	Line 56	Grand Banks	Klein		Sand Ridges

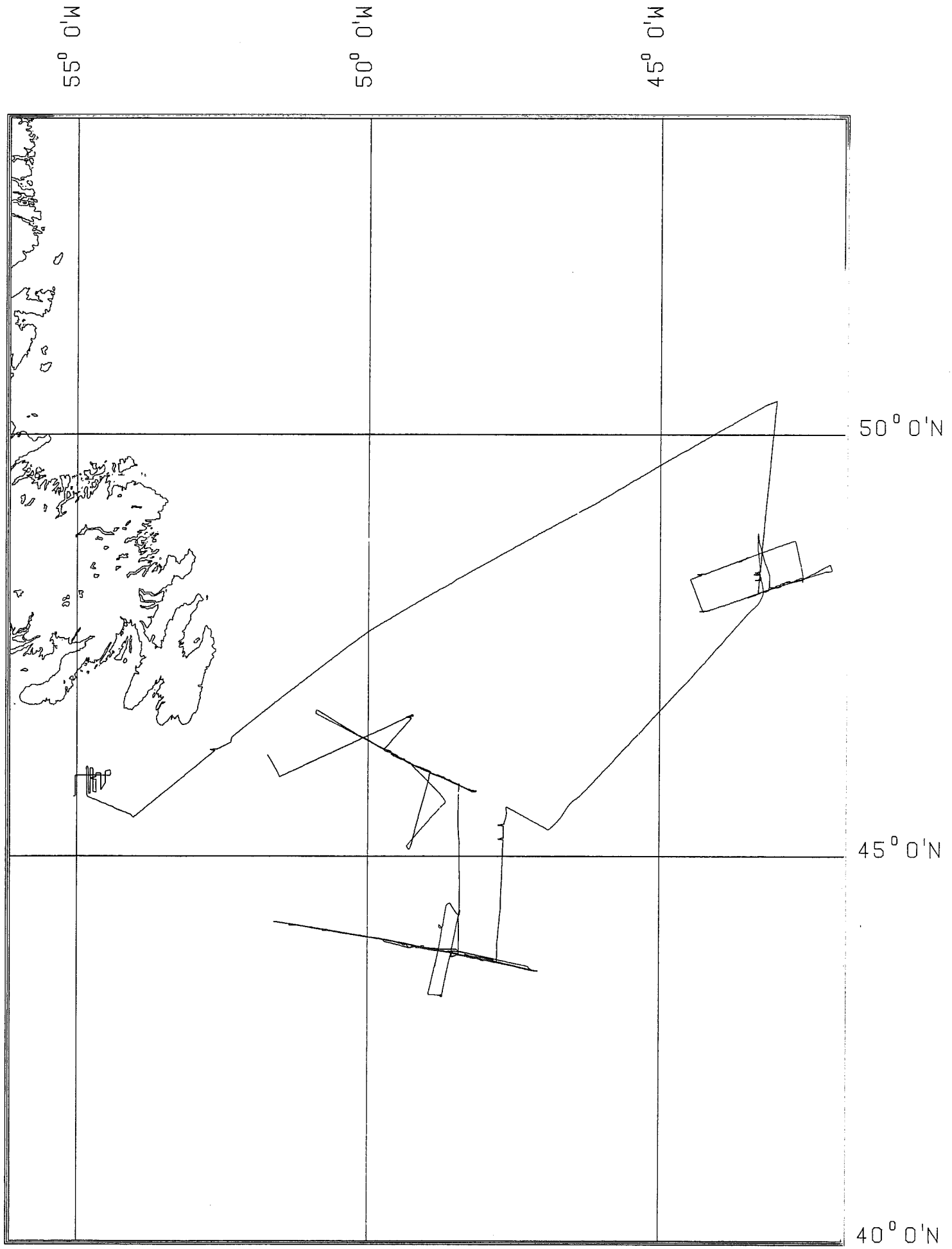
SIDESCAN RECORDS 87-014 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE	NOTES
001	127/1940	128/0040	Lines 1-3	Grand Banks	BIO		
002	128/0430	128/1515	Lines 4-11	Grand Banks	BIO		
003	129/0130	129/1145	Lines 12-23	Grand Banks	BIO		
004	129/1145	129/1630	Lines 23-29	Grand Banks	BIO		
005	129/2210	130/0150	Line 30	Grand Banks	BIO		Terra Nova C-09
006	130/0155	130/1415	Line 50	Grand Banks	BIO		
007	130/1415	130/1925	Line 30	Grand Banks	BIO		
008	130/2330	131/1040	Line 31-43	Grand Banks	BIO		"W"s Mosaic, fish captives net.
009	131/2310	132/0215	Line 44	Grand Banks	BIO		
010	132/0217	132/1040	Lines 45-54	Grand Banks	BIO		
011	132/2330	133/1050	Lines 55-56	Grand Banks	BIO		

HUNTEC D.T.S. RECORDS 87-014

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE	NOTES
001	127/2010	128/0030	Lines 1-3	Grand Banks	EPC	Internal	Dowing Basin
002	128/0430	128/1500	Lines 5-11	Grand Banks	EPC	Internal	
003	129/0120	129/1625	Lines 12-29	Grand Banks	EPC	Internal	
004	129/2230	130/0100	Line 30	Grand Banks	EPC	Internal	
005	130/0100	130/1920	Line 30	Grand Banks	EPC	Internal	
006	130/2340	131/1030	Lines 31-43	Grand Banks	EPC	Internal	
007	131/2350	132/0055	Lines 44-48	Grand Banks	EPC	Internal	
008	132/0600	132/1035	Lines 49-54	Grand Banks	EPC	Internal	
009	132/2340	133/1040	Lines 55-56	Grand Banks	EPC	Internal	Sand Ridges
001	127/2000	128/0900	Lines 1-6	Grand Banks	EPC	External	
002	128/0902	128/1500	Lines 6-11	Grand Banks	EPC	External	
003	129/0147	129/1040	Lines 12-22	Grand Banks	EPC	External	
004	129/1040	129/1630	Lines 22-29	Grand Banks	EPC	External	
005	129/2234	130/0740	Line 30	Grand Banks	EPC	External	
006	130/0745	130/1920	Line 30	Grand Banks	EPC	External	
007	130/2340	131/1030	Lines 31-43	Grand Banks	EPC	Internal	
008	131/2350	132/0445	Lines 44-47	Grand Banks	EPC	External	
009	132/0445	132/1035	Lines 48-54	Grand Banks	EPC	External	
010	132/2340	133/0740	Line 55	Grand Banks	EPC	External	
011	133/0752	133/1030	Line 56	Grand Banks	EPC	Internal	

87-019 CSS HUDSON
1-6 MILLION AT 51N



AIRGUN SEISMIC RECORDS 87-019

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE	NOTES
001	137/2239	139/0440	Line 1	Grand Banks	LSR	S.E. 100'	Reflection
002	137/2239	139/0440	Line 1	Grand Banks	LSR	S.E. 25'	Reflection
003	139/2300	140/0800	Line 2	Grand Banks	LSR	S.E. 100'	Reflection
004	139/2300	140/0800	Line 2	Grand Banks	LSR	S.E. 25'	Reflection
005	141/1729	142/1903	Line 3	Grand Banks	LSR	S.E. 100'	Reflection
006	141/1729	142/1903	Line 3	Grand Banks	LSR	S.E. 25'	Reflection
007	142/1938	143/0100	Line 3A	Grand Banks	LSR	S.E. 100'	Reflection
008	142/1938	143/0100	Line 3A	Grand Banks	LSR	S.E. 25'	Reflection
009	144/0135	144/0907	Line 4	Grand Banks	LSR	S.E. 100'	Reflection
010	144/0135	144/0907	Line 4	Grand Banks	LSR	S.E. 25'	Reflection
011	144/1200	145/0545	Line 5	Grand Banks	LSR	100' S.E.	Reflection
012	144/1200	145/0545	Line 5	Grand Banks	LSR	25' S.E.	Reflection
013	145/0950	145/1724	Line 6	Grand Banks	LSR	100' S.E.	Reflection
014	145/0950	145/1724	Line 6	Grand Banks	LSR	25' S.E.	Reflection
015	146/0213	147/0403	Line 7	Grand Banks	LSR	100' S.E.	Reflection
016	146/0213	147/0403	Line 7	Grand Banks	LSR	25' S.E.	Reflection
017	147/1010	147/1920	Line 8	Grand Banks	LSR	100' S.E.	Reflection, 15 sec shot interval
018	147/1010	147/1920	Line 8	Grand Banks	LSR	25' S.E.	Reflection, 15 sec shot interval
019	149/0237	149/0701	Line 9	Grand Banks	LSR	100' S.E.	Reflection, 15 sec shot interval
020	149/0237	149/0701	Line 9	Grand Banks	LSR	25' S.E.	Reflection, 15 sec shot interval
021	152/1857	152/2029	Line 10	Grand Banks	LSR	100' S.E.	Reflection
022	152/1857	152/2029	Line 10	Grand Banks	LSR	25' S.E.	Reflection
023	153/2203	154/1141	Line 11	Grand Banks	LSR	100' S.E.	Reflection, 15 sec shot interval
024	153/2203	154/1047	Line 11	Grand Banks	LSR	25' S.E.	Reflection, 15 sec shot interval

AIRGUN SEISMIC TAPES 87-019

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
001	137/2239	138/1052	Line 1	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac No Tape Count
002	138/1053	139/0237	Line 1	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac No Tape Count
003	139/0240	139/0440	Line 1	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 0602
004	139/2300	140/0800	Line 2	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac No Tape Count
005	141/1729	142/0721	Line 3	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac No Tape Count
006	142/0725	142/1903	Line 3	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 3323
007	142/1938	143/0100	Line 3A	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 1535
008	144/0135	144/0907	Line 4	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 2118
009	144/1200	145/0246	Line 5	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter 3495
010	145/0249	145/0810	Line 5 and 5A	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 1544
011	145/1002	145/1724	Line 6	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 2169
012	146/0218	146/0537	Line 7	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 0897
013	146/0558	146/1948	Line 7	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 1675
014	146/1949	147/0403	Line 7	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 2351

AIRGUN SEISMIC TAPES 87-019 (Continued)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
015	147/1010	147/1920	Line 8	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 2617
016	149/0237	149/0701	Line 9	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 1319
017	152/1857	152/2029	Line 10	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 0429
018	153/2203	154/1047	Line 11	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 0105/3622
019	154/1047	154/1141	Line 11	Grand Banks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	Reflection/Refrac Tape Counter - 0250

DIGITAL SEISMIC CARTRIDGES 87-019

TAPE #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	CHANNELS	NOTES
001	144/0600	145/1724	Lines 5A, 6	GrandBanks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	
002	146/0206	147/0400	Line 7	GrandBanks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	
003	147/1011	149/0700	Lines 8, 9	GrandBanks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	
004	152/1857	154/0200	Lines 10, 11	GrandBanks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	
005	154/0200	154/1141	Line 11	GrandBanks	FM - 100 Ft. SE FM - 25 Ft. SE FM - Shot	

GRAVITY RECORDS 87-019

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	NOTES
001	136/1500	136/ 2400	Day 136	GrandBanks	
002	137/0000	137/2400	Day 137	GrandBanks	
003	138/0000	138/ 2400	Day 138	GrandBanks	
004	139/0000	139 /2400	Day 139	GrandBanks	
005	140/0000	140/ 2400	Day 140	GrandBanks	
006	141/0000	141/ 2400	Day 141	GrandBanks	
007	142/0000	142/ 2400	Day 142	GrandBanks	
008	143/0000	143/2400	Day 143	GrandBanks	
009	144/0000	144/2400	Day 144	GrandBanks	
010	145/0000	145/2400	Day 145	GrandBanks	
011	146/0000	146/ 2400	Day 146	GrandBanks	
012	147/0000	147/2400	Day 147	GrandBanks	
013	148/0000	148/2400	Day 148	GrandBanks	
014	149/0000	149/2400	Day 149	GrandBanks	
015	150/0000	150/2400	Day 150	GrandBanks	
016	151/0000	151/2400	Day 151	GrandBanks	
017	152/0000	152/2400	Day 152	GrandBanks	
018	153/0000	153/2400	Day 153	GrandBanks	
019	154/0000	154/2400	Day 154	GrandBanks	
020	155/0000	155/ 2400	Day 155	GrandBanks	
021	156/0000	156/2400	Day 156	GrandBanks	
022	157/0000	157/2400	Day 157	GrandBanks	
023	158/0000	158/2400	Day 158	Scotian Shelf	
024	159/0000	159/0700	Day 159	Scotian Shelf	

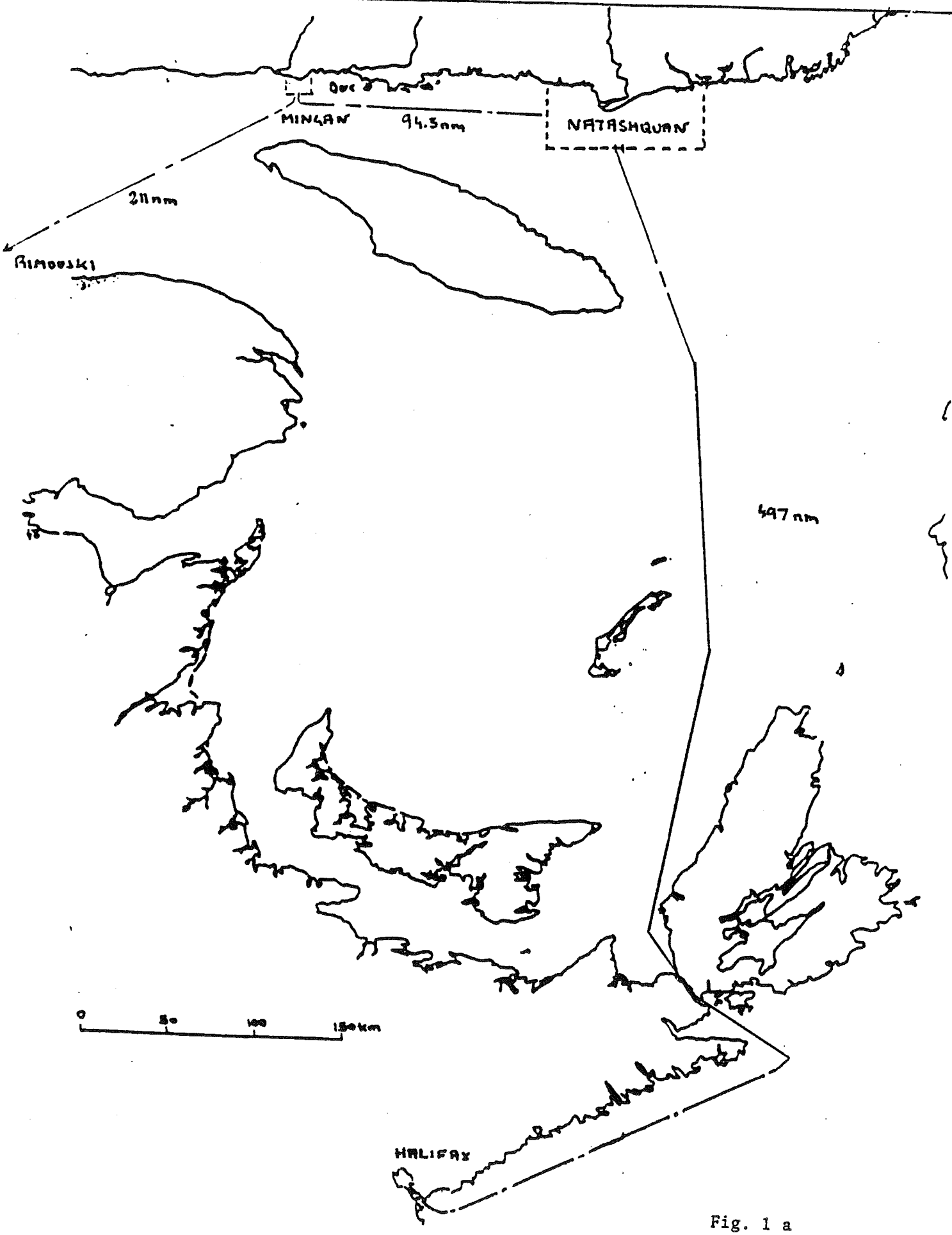
MAGNETIC RECORDS 87-019

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	NOTES
001	136/1424	136/2400	Day 136	GrandBanks	
002	137/0000	137/0948	Day 137	GrandBanks	
003	141/0000	141/1252	Day 141	GrandBanks	
004	147/0500	147/2400	Day 147	GrandBanks	
005	148/0000	148/0800	Day 148	GrandBanks	
006	149/2148	149/2400	Day 149	GrandBanks	
007	150/0000	150/2400	Day 150	GrandBanks	
008	151/0000	151/1540	Day 151	GrandBanks	
009	154/2016	154/2400	Day 154	GrandBanks	
010	155/0000	155/2400	Day 155	GrandBanks	
011	156/0000	156/2400	Day 156	GrandBanks	
012	157/0000	157/2400	Day 157	GrandBanks	
013	158/0000	158/2400	Day 158	GrandBanks	
014	159/0000	159/0700	Day 159	GrandBanks	

12 kHz BATHYMETRY RECORDS 87-019

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	NOTES
001	136/1458	138/2010		GrandBanks	LSR	Continuous from St. Johns
002	138/2015	141/1913		GrandBanks	LSR	Continuous
003	141/1925	142/1950		GrandBanks	LSR	Continuous
004	142/2000	146/1830		GrandBanks	LSR	Continuous
005	146/1840	147/2240		GrandBanks	LSR	Continuous
006	147/2250	152/1207		GrandBanks	LSR	Continuous
007	152/1215	153/1835		GrandBanks	LSR	
008	153/1845	157/1620		GrandBanks	LSR	Continuous
009	157/1630	159/0700		GrandBanks	LSR	Continuous into Halifax

87021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NATASHQUAN
211nm
RIMOUSKI
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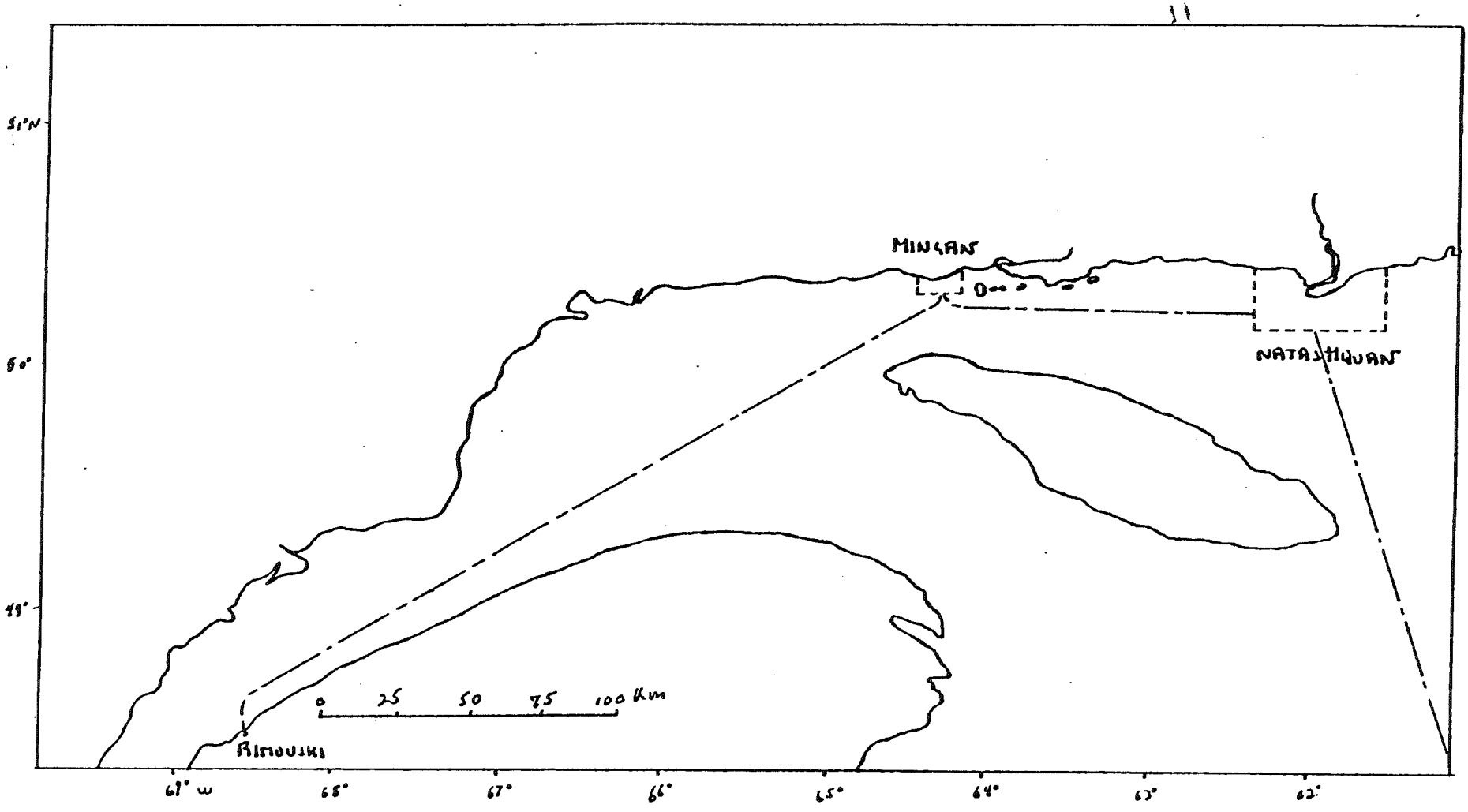
50
100
150km
HALIFAX
66°
65°
64°
63°
62°
61
60

Fig. 1 a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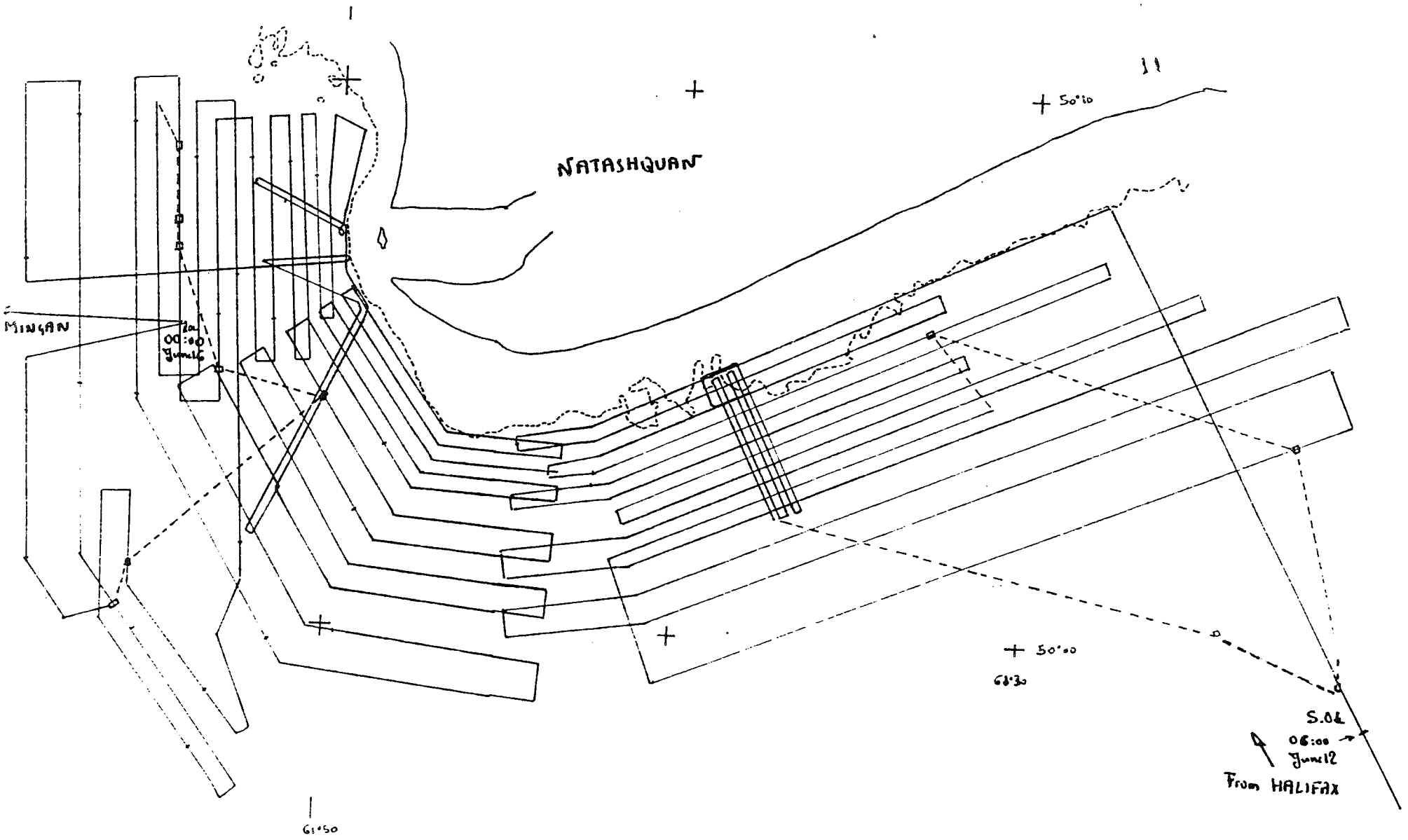
50°
49°
MINGAN
NATASHQUAN
0 25 50 75 100 Km
RIMOUSKI
61° W
66°
65°
64°
63°
62°

Fig. 1 b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MINGAN
00:00
June16
50°10
50°00
68°30
S.06
06:00
June12
From HALIFAX
61°50

8702

BATHYMETRY ROLL INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	163/1100	164/0423	Natashquan
002	164/0423	165/0715	Natashquan
003	165/0725	167/1135	Natashquan & Mingan
004	167/1255	167/2200	Mingan

SEISMIC TAPE INDEX 87-021

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	163/1233	164/0124	Natashquan
002	164/0130	164/1933	Natashquan
003	164/1934	165/0815	Natashquan
004	165/0817	165/2102	Natashquan
005	165/2103	166/1030	Natashquan
006	166/1032	167/1000	Natashquan & Mingan
007	167/1001	167/1408	Natashquan

SEISMIC ROLL INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	163/1205	164/1000	Natashquan
002	164/1002	165/1629	Natashquan
003	165/1630	166/1840	Natashquan
004	166/1840 167/0840	167/0100 167/1410	Natashquan Mingan

HUNTEC TAPE INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	163/1141	163/1514	Natashquan
002	163/1517	163/1822	Natashquan
003	163/1833	163/2138	Natashquan
004	163/2140	164/0047	Natashquan
005	164/0049	164/0430	Natashquan
006	164/0436	164/0800	Natashquan
007	164/0808	164/1122	Natashquan
008	164/1123	164/1952	Natashquan
009	164/1954	164/2306	Natashquan
010	164/2307	165/0218	Natashquan
011	165/0219	165/0537	Natashquan
012	165/0539	165/0845	Natashquan
013	165/0855	165/1205	Natashquan
014	165/1208	165/1455	Natashquan
015	165/1457	165/1757	Natashquan
016	165/1800	165/2108	Natashquan
017	165/2111	166/0010	Natashquan
018	166/0055	166/0354	Natashquan
019	166/0356	166/0714	Natashquan
020	166/0717	166/1021	Natashquan
021	166/1022	166/1812	Natashquan
022	166/1814	166/2129	Natashquan
023	166/2130	167/0045	Natashquan
024	167/0046	167/1030	Natashquan & Mingan
025	167/1031	167/1330	Mingan
026	167/1332	167/1408	Mingan

MACREUSE BATHYMETRY INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	164/1602	165/1452	Natashquan
002	165/1530	166/1709	Natashquan

MACREUSE RTT & SIDESCAN SONAR INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	165/1308	165/1900	Natashquan

SIDESCAN ROLL INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
001	163/1130	163/2220	Natashquan
002	163/2225	164/0945	Natashquan
003	164/0945	164/2202	Natashquan
004	164/2222	165/0135	Natashquan
005	165/0137	165/1240	Natashquan
006	165/1242	165/2355	Natashquan
007	166/0108	166/1125	Natashquan
008	166/1535	167/0105	Natashquan
009	167/0740	167/1410	Mingan

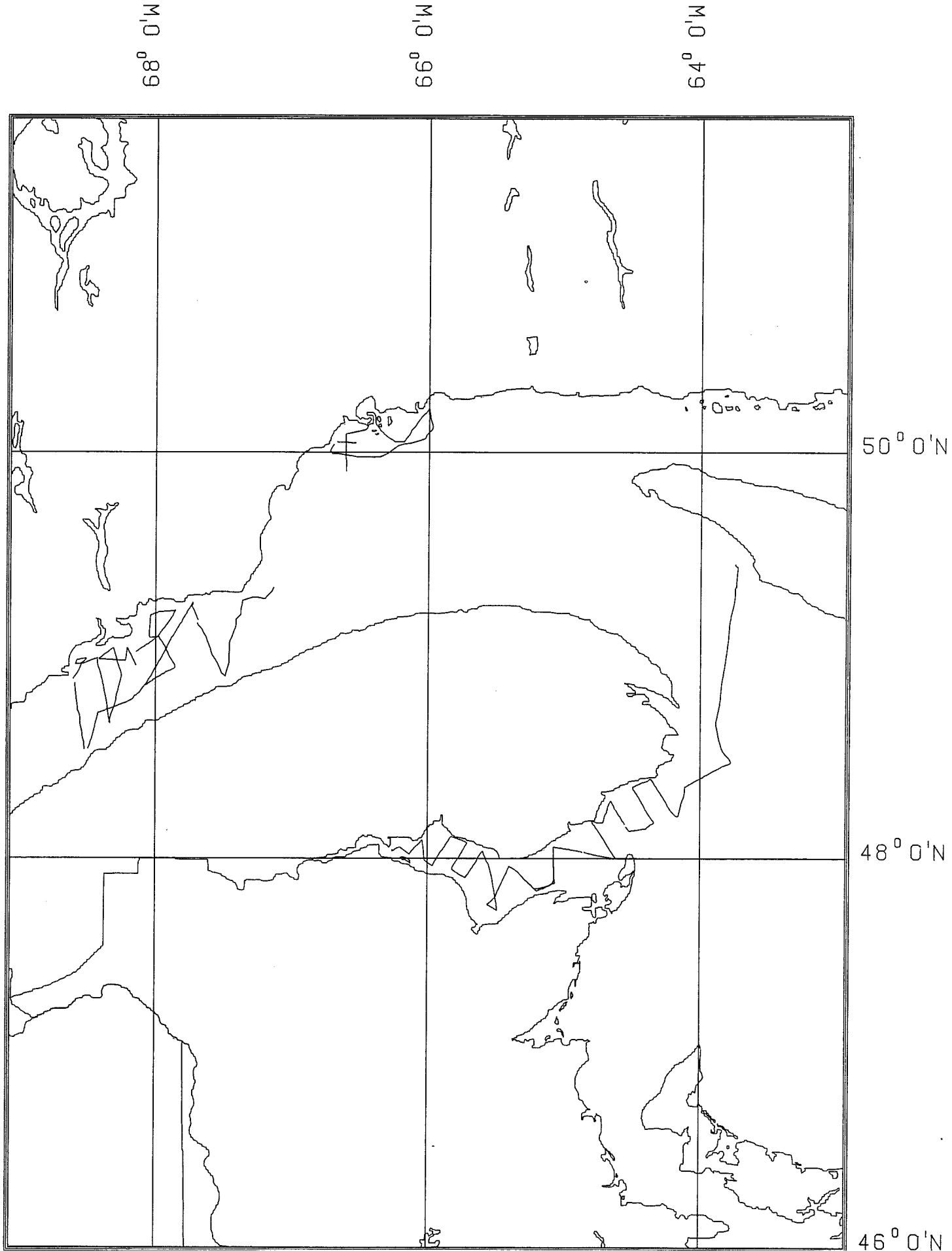
SIDESCAN TAPE INDEX 87-021

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
1	163/1149	163/1535	Natashquan
2	163/1539	163/1853	Natashquan
3	163/1856	163/2211	Natashquan
4	163/2211	164/0124	Natashquan
5	164/0126	164/0439	Natashquan
6	164/0442	164/0810	Natashquan
7	164/0815	164/1125	Natashquan
8	164/1125	164/1944	Natashquan
9	164/1945	164/2253	Natashquan
10	164/2255	165/0205	Natashquan
11	165/0206	165/0524	Natashquan
12	165/0525	165/0836	Natashquan
13	165/0838	165/1150	Natashquan
14	165/1201	165/1504	Natashquan
15	165/1506	165/1817	Natashquan
16	165/1819	165/2132	Natashquan
17	165/2133	166/0055	Natashquan
18	166/0055	166/0408	Natashquan
19	166/0410	166/0723	Natashquan
20	166/0725	166/1037	Natashquan
21	166/1038	166/1810	Natashquan
22	166/1814	166/2126	Natashquan
23	166/2126	167/0036	Natashquan
24	167/0040	167/1027	Natashquan & Mingan
25	167/1029	167/1330	Natashquan
26	167/1335	167/1408	Natashquan

HUNTEC ROLL INDEX 87-021

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION
1 HE	163/1130	164/0730	Natashquan
2 HE	164/0802	165/0510	Natashquan
3 HE	165/0530	166/0158	Natashquan
4 HE	166/0200	167/0100	Natashquan
5 HE	167/0734	167/1410	Natashquan
1 HI	163/1130	164/0942	Natashquan
2 HI	164/0950	165/0910	Natashquan
3 HI	165/0910	166/0644	Natashquan
4 HI	166/0650	167/0100	Natashquan
5 HI	167/0734	167/1410	Natashquan

87-023 CSS DAWSON
1-2.5 MILLION AT 53N

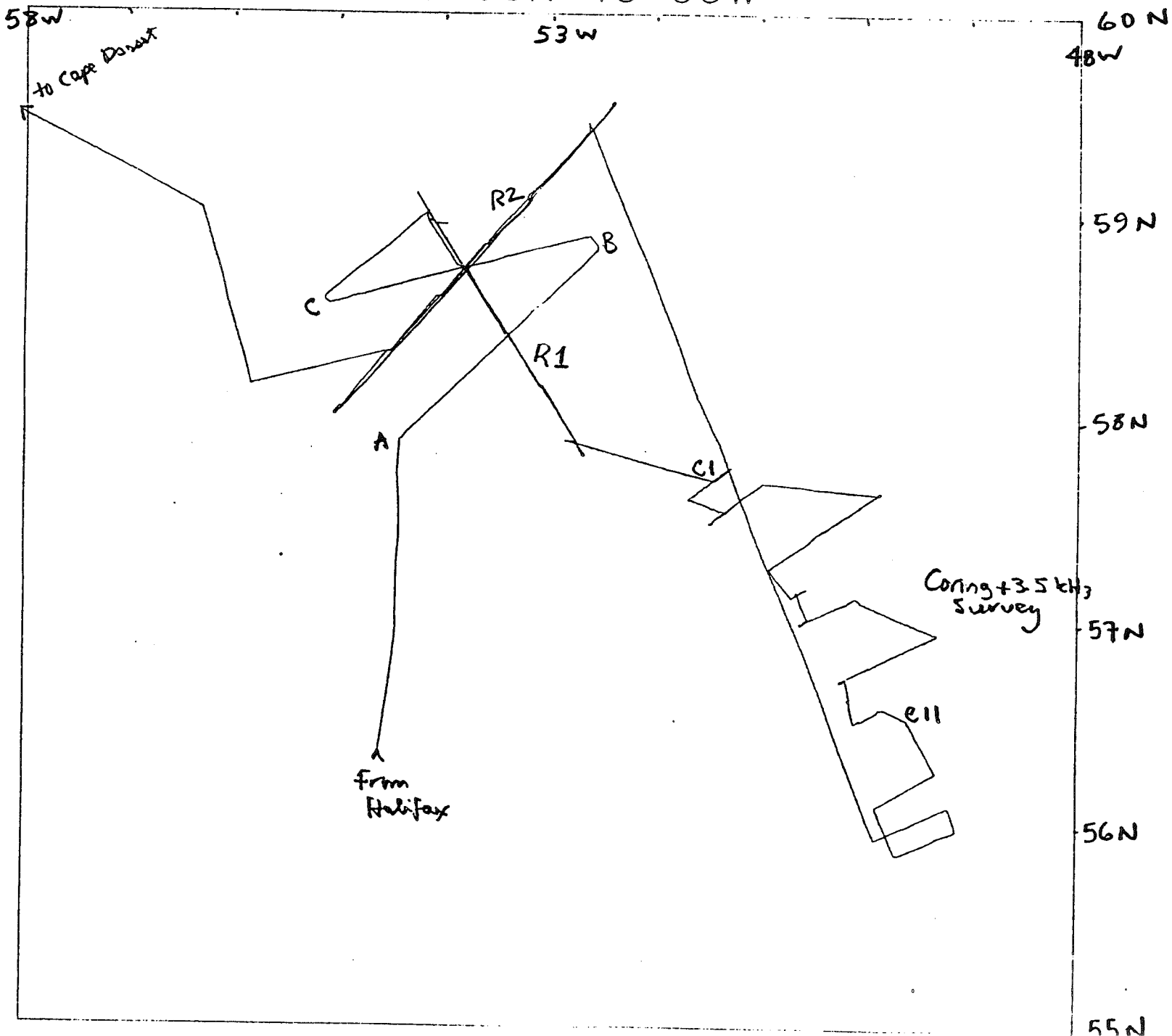


ION = 87-023 DAWSON

GEOPHYSICAL SUMMARY 87023

AREA	PARAMETER RECORDING PERIODS (GMT) DAY/TIME		AIRGUN SEISMICS		HUNTEC SEISMICS I = Internal E = External		HUNTEC SIDESCAN		12 kHz ROLLS	SURVEY LENGTH (KMS)	NOTES
	START	STOP	ROLLS	TAPES	ROLLS	TAPES	ROLLS	TAPES			
St. Lawrence Estuary	169/1235	169/1630	1	1	1I,2E	1-2	1	1-2	1	38	
St. Lawrence Estuary	169/1235	169/2130	1	1	1I,2E	2-3	1	2-3	1	32	
St. Lawrence Estuary	169/2217	170/0123	1	1	1I,2E	3,4			1	37	
St. Lawrence Estuary	170/0430	170/1232	1	1,2	3E,4E 5I	4-6	2	3	2	83	
St. Lawrence Estuary	171/0245	171/1239	1	2,3	4E, 6E, 5I,7I	7-9	2	3	3	100	
St. Lawrence Estuary	171/1647	172/0310	2	3,4	8E,9I	9-12	3	4	3	110	
St. Lawrence Estuary	172/0500	172/1403	2	4	8E,9I	12-14			3	97	St. Lawrence Estuary Total = 497 km
Sept Isles	172/1721	173/1055	3,4	4,5	10E,12E 11I,13I	14-20	4	4,5	4,5	168	
Sept Isles	173/1120	173/1235	4	5	12E,13I	20			5	11	Sept Isles Total = 177 km
Anticosti to Baie des Chaleurs	174/0536	175/0545	5	6,7	14E,16E 15I,17I	20-28	5,6	5-9	6	230	
Baie des Chaleurs	175/0625	175/0730	5	7	16E,17I	28	6	9	6	15	
Baie des Chaleurs	175/0756	175/1955	5	7,8	16E,18E 17I,19I	28,29	6,7	9,10	6,7	125	
Baie des Chaleurs	176/0010	176/2300	6	8-10	18E,20E 19I,21I	29-36	7-9	10-15	7	225	Anticosti/Baie des Chaleurs Total = 595km

LABRADOR SEA 55–60N 48–58W



High resolution seismic profiles were acquired to study the nature of recent sediment deposition and erosion along th mid-Ocean channel.

EQUIPMENT USED:

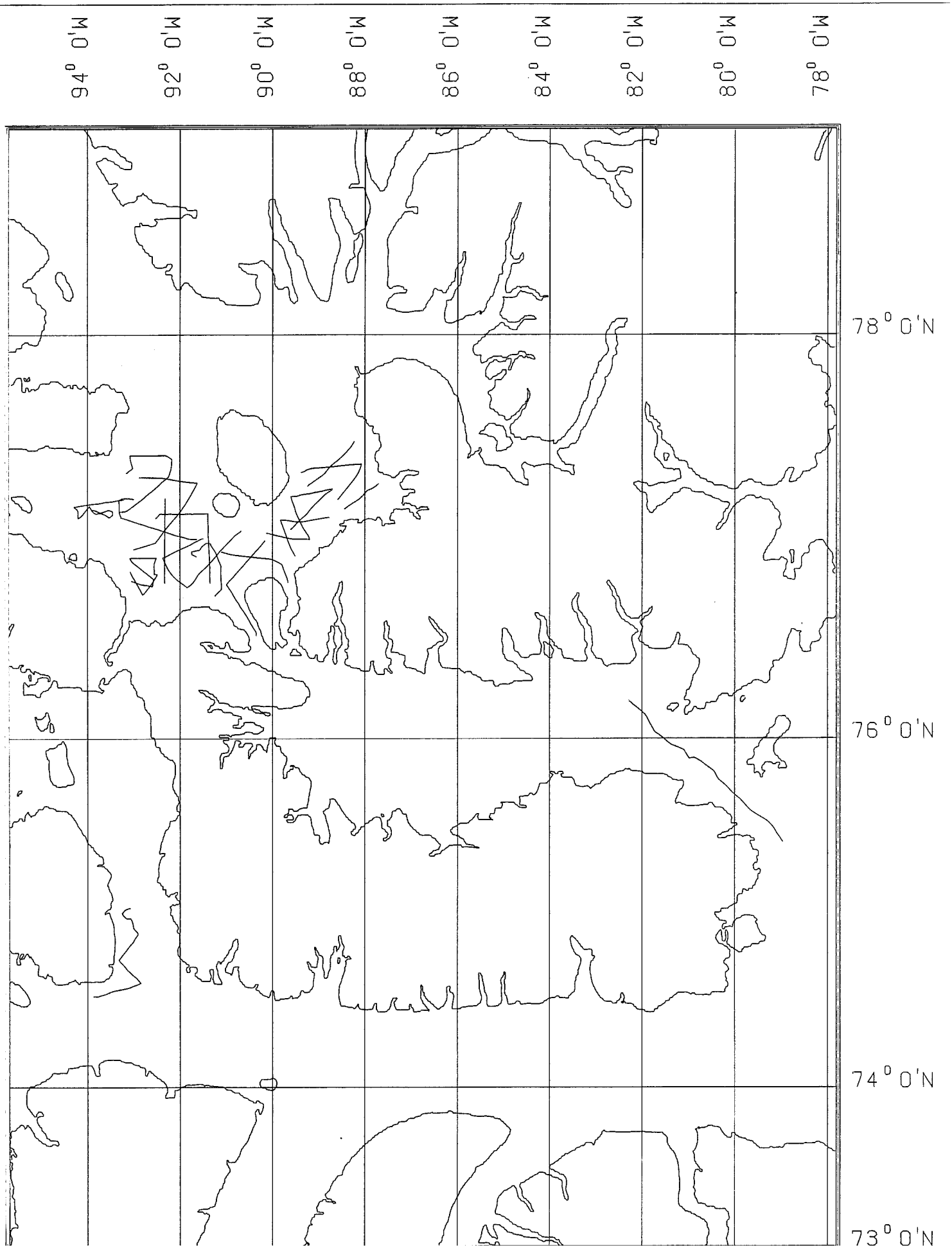
OBS systems (5)
6000 in^3 airgun array (6 x 1000 in^3 guns) w/compressor
hydrophone streamer, reflection profiling shooting and recording electronics
Benthos & AGC wide-mouth coring systems
ORE 3.5 kHz profiler

CRUISE ITINERARY 87-025

DATE	PROCEDURE
July 16	Leave BIO
July 17	transit @ 11kts. = 3 1/2 d
July 18	test reflection system on route (4 hours)
July 19	Begin reflection profile at pt. A
July 20	profile A-B-C 135nm @ 5kts = 27 hours
July 21	Begin refraction profile R1 (2d)
July 22	lay 5obs at pts D-H shoot 6000 in^3, airgun @ 4kts H-D pickup 4OBS D-H
July 23	Heat flow survey at HF1 (12 hours), begin coring and seismic survey at pt. C10 (3 1/2 d)
July 25	see attached sheet for detailed plan
July 26	do in reverse order C10-C1 (3 1/2 d)
July 27	Steam C1 to L (L')-Q (Q')
July 28	Begin refraction profile R2 (3d)
July 29	lay 6 OBS at pts L (L')-Q (Q'), shoot @ 4nm Q (Q')-L (L')
July 30	pickup 7 OBS at pts L (L')-Q (Q')
July 31	Leave for Cape Dorset
Aug. 2	transit @ 11 kts = 2 1/2 d
Aug 3	Arrive Cape Dorset (early am)

For further information, contact Keith Louden, Dept. of Oceanography, Dalhousie University, Halifax, Nova Scotia and/or Reinhard Heusse, Dept. of Geological Sciences, McGill University, Montreal, Quebec.

87-027 CSS BAFFIN
1-2.5 MILLION AT 78N



GEOPHYSICAL SUMMARY 87-027

LINE	RECORDING INTERVAL DAY/TIME		AIRGUN/ SPARKER		HUNTEC SEISMICS		HUNTEC SIDESCAN		3.5 kHz ROLLS	12 kHz ROLLS	SURVEY LENGTH (KMS)
	START	STOP	ROLLS	TAPES	ROLLS	TAPES	ROLLS	INTERVAL			
A	242/0200	242/1135	1	1-2	1(A,B)	1-2	-	-	1-2	1	99
B	244/2130	245/0900	2	3-4	2(A,B)	2-3	-	-	3	2	128
C	246/0123	246/0530	3	5-6	3(A,B)	4-5	1	All	4	3	44
D	247/0045	247/1000	4(A,B)	6-7	4(A,B)	5-7	2	0219-0730	4-5	3	83
E	248/0040	248/0930	5(A,B)	7-8	5(A,B)	7-10	3-4	0113-0920	5	3	90
F	249/0230	249/0900	6(A,B)	8-9	6(A,B)	10-12	5	0438-0912	6	4	68
G	249/2120	250/0800	7(A,B)	9-11	7(A,B)	12-15	6-8	2134-0100 0134-0355 0636-0801	7	4	105
H	251/0137	251/0730	8(A,B)	11-12	8(A,B)	15-17	9-10	All	8	4	61
I	254/0230	254/1020	9(A,B)	12-13	9(A,B)	17-19	11-13	All	9	5	73
J	255/0100	255/0830	10(A,B)	13-14	10(A,B)	19-20B	14-15	0114-0335 0652-0830	10	5	77
K	256/0030	256/0900	11(A,B)	14-15	11(A,B)	20B-22	16-18	All	11	6	89
L	258/0334	248/0640	12(A,B)	15-16	-	-	-	-	12	7	47
M	260/0357	260/0835	13(A,B)	16	12(A,B)	23-24	19	0509-0836	13	7	49
N	261/0320	261/0930	14(A,B)	16-17	13(A,B)	24-25	20-21	All	14	8	66
O	262/0306	262/0803	15(A,B)	18-19	14(A,B)	26-27	22	0705-0805	15	8	56
P	263/0215	263/0632	16(A,B)	19	15(A,B)	27-28	23	All	16	9	48
Q	264/1339	264/1645	17(A,B)	19-20	16(A,B)	28-29	-	-	17	9	35
R	264/1823	264/2020	17(A,B)	20	16(A,B)	29-30	24	1950-2026	17	9	24
											TOTAL= 1241 km

87-028 CSS HUDSON
1-4.5 MILLION AT 64N

SIDESCAN RECORDS 87-028

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	PARAMETER
001	217/0630	217/1740	Line 6	Hudson Bay	EPC	BIO Sidescan
002	217/2335	218/ 1215	Line 7	Hudson Bay	EPC	BIO Sidescan
003	218/1555	219/0050	Lines 8,9	Hudson Bay	EPC	BIO Sidescan
004	219/0055	219/0335	Line 9	Hudson Bay	EPC	BIO Sidescan
005	219/0520	219/1635	Line 10	Hudson Bay	EPC	BIO Sidescan
006	219/2020	220/0330	Line 11	Hudson Bay	EPC	BIO Sidescan
007	220/0335	220/0750	Line 12	Hudson Bay	EPC	BIO Sidescan
008	220/0805	220/1130	Line 12	Hudson Bay	EPC	BIO Sidescan
009	220/1845	220/2050	Line 13	Hudson Bay	EPC	BIO Sidescan
010	221/0330	221/0805	Line 15	Hudson Bay	EPC	BIO Sidescan
011	221/0815	221/1855	Line 15	Hudson Bay	EPC	BIO Sidescan
012	221/2331	222/0735	Lines 16,17	Hudson Bay	EPC	BIO Sidescan
013	222/0740	222/1315	Line 17	Hudson Bay	EPC	BIO Sidescan
014	223/0220	223/0705	Line 18	Hudson Bay	EPC	BIO Sidescan
015	223/0820	223/1945	Liine 18,19	Hudson Bay	EPC	BIO Sidescan
016	223/2300	224/0810	Lines 20,21	Hudson Bay	EPC	BIO Sidescan
017	224/0815	224/1340	Line 21	Hudson Bay	EPC	BIO Sidescan
018	224/1245	224/1340	Line 21	Hudson Bay	EPC	BIO Sidescan
019	225/1605	226/0305	Line 22	Hudson Bay	EPC	BIO Sidescan
020	226/0350	226/1155	McGill 4-11	Hudson Bay	EPC	BIO Sidescan
021	226/1915	226/2115	McGill 12	Hudson Bay	EPC	BIO Sidescan
022	228/0120	228/1505	Lines 23,24	Hudson Bay	EPC	BIO Sidescan
023	228/1508	229/1735	Lines 25	Hudson Bay	EPC	BIO Sidescan
024	230/1910	230/0310	Lines 25,26	Hudson Bay	EPC	BIO Sidescan
025	230/0135	230/0415	Line 27	Hudson Bay	EPC	BIO Sidescan

SIDESCAN RECORDS 87-028 (CONTINUED)

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	PARAMETER
026	230/0420	230/1335	Line 27	Hudson Bay	EPC	BIO Sidescan
027	230/1345	230/2350	Lines 27,28	Hudson Bay	EPC	BIO Sidescan
028	231/0240	231/1635	Lines 28,29	Hudson Bay	EPC	BIO Sidescan
029	231/1643	231/1945	Line 30	Hudson Bay	EPC	BIO Sidescan
030	232/0210	232/1540	Lines 30,31	Hudson Bay	EPC	BIO Sidescan
031	232/1544	232/2130	Line 31	Hudson Bay	EPC	BIO Sidescan
001	217/2324	218/0805	Line 7	Hudson Bay	EPC	Klein Sidescan
002	218/0808	218/1200	Line 7	Hudson Bay	EPC	Klein Sidescan
003	218/1632	218/2330	Line 8	Hudson Bay	EPC	Klein Sidescan
004	219/1211	219/1630	Line 10	Hudson Bay	EPC	Klein Sidescan
005	219/2100	220/0450	Lines 11,12	Hudson Bay	EPC	Klein Sidescan
006	220/0505	220/1120	Line 12	Hudson Bay	EPC	Klein Sidescan
007	223/1352	223/1456	Line 19	Hudson Bay	EPC	Klein Sidescan
008	223/1508	223/1930	Line 19	Hudson Bay	EPC	Klein Sidescan
009	225/1654	225/1818	Line 22	Hudson Bay	EPC	Klein Sidescan
010	226/1940	226/2120	McGill 12	Hudson Bay	EPC	Klein Sidescan
011	228/0130	228/0530	Line 23	Hudson Bay	EPC	Klein Sidescan

TABLE 13

HUNTEC/B.I.O. SIDESCAN
87-028

ROLL NUMBERS	START DAY/TIME	STOP DAY/TIME	LINE NUMBER	GEOGRAPHIC LOCATION	NOTES
01	2160024	2160412		HUDSON BAY	
02	2172259	2181200	LINE 7	HUDSON BAY	
03	2181700	2182330	LINE 8	HUDSON BAY	
04	2190000	2190330	LINE 9	HUDSON BAY	
05	2190530	2191600	LINE 10	HUDSON BAY	
06	2192230	2200330	LINE 11	HUDSON BAY	
07	2200312	2201130	LINE 12	HUDSON BAY	
08	2210354	2210748	LINE 15	HUDSON BAY	
09	2210750	2211500	LINE 15	HUDSON BAY	
10	2211530	2211654	LINE 15	HUDSON BAY	
11	2211821	2220728	LINES 16,17	HUDSON BAY	
12	2220731	2221316	LINE 17	HUDSON BAY	
13	2230235	2231800	LINES 18,19	HUDSON BAY	
14	2231830	2231940	LINE 19	HUDSON BAY	
15	2232344	2340608	LINE 20	HUDSON BAY	
16	2251700	2260018	LINE 22, MCGILL 1,2	HUDSON BAY	
17	2260416	2280256	LINE 23, MCGILL 3-12	HUDSON BAY	
18	2301400	2302042	LINES 27,28	HUDSON BAY	
19	2302046	2310600	LINE 28	HUDSON BAY	
20	2310600	2311630	LINES 28,29	HUDSON BAY	
21	2311640	2321654	LINES 30,31	HUDSON BAY	
22	2321657	2322126	LINE 31	HUDSON BAY	

3.5 kHz ACOUSTIC RECORDS 87-028

RECORD NO.	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER
001	216/1230	216/2230	Hudson Bay	EPC
002	216/2240	217/0212	Hudson Bay	EPC
003	217/0326	217/1520	Hudson Bay	EPC
004	217/1536	218/1220	Hudson Bay	EPC
005	218/1555	218/1635	Hudson Bay	EPC
006	219/0520	219/1620	Hudson Bay	EPC
007	219/2010	220/1135	Hudson Bay	EPC
008	221/0405	221/1030	Hudson Bay	EPC
009	221/1043	221/2120	Hudson Bay	EPC
010	221/2130	222/0750	Hudson Bay	EPC
011	222/0800	222/2210	Hudson Bay	EPC
012	223/0255	223/1235	Hudson Bay	EPC
013	223/1240	223/2300	Hudson Bay	EPC
014	223/2300	224/1050	Hudson Bay	EPC
015	224/1100	226/0535	Hudson Bay	EPC
016	226/0545	226/1230	Hudson Bay	EPC
017	226/1240	226/1330	Hudson Bay	EPC
018	227/1654	228/0445	Hudson Bay	EPC
019	228/0450	228/1340	Hudson Bay	EPC
020	228/1345	228/1830	Hudson Bay	EPC
021	230/0020	230/1605	Hudson Bay	EPC
022	230/1615	231/0245	Hudson Bay	EPC
023	231/1855	232/0030	Hudson Bay	EPC

12 kHz BATHYMETRY RECORDS 87-028

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER
001	216/0256	218/0700	Lines 1-7	Hudson Bay	L.S.R.
002	218/0700	219/1925	Lines 7-10	Hudson Bay	L.S.R.
003	219/2010	220/1350	Lines 11,12	Hudson Bay	L.S.R.
004	220/1840	222/0405	Lines 13-16	Hudson Bay	L.S.R.
005	222/0405	223/2305	Lines 17-19	Hudson Bay	L.S.R.
006	223/2310	224/1130	Lines 20,21	Hudson Bay	L.S.R.
007	224/1135	225/1300	Line 22	Hudson Bay	L.S.R.
008	225/1615	225/2145	Line 22	Hudson Bay	L.S.R.
009	225/2155	226/1145	McGill 2-11	Hudson Bay	L.S.R.
010	226/1155	228/0010	McGill 12	Hudson Bay	L.S.R.
011	228/0110	229/0320	Lines 23-26	Hudson Bay	L.S.R.
012	230/0015	231/2150	Lines 27-30	Hudson Bay	L.S.R.
013	232/0100	232/2145	Lines 30,31	Hudson Bay	L.S.R.

AIRGUN SEISMIC RECORDS 87-028

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE
001	216/0500	217/1740	Line 1-6	Hudson Bay	L.S.R.	N.S.R.F.
002	217/2335	218/1220	Line 7	Hudson Bay	L.S.R.	N.S.R.F.
003	218/1610	219/0305	Line 8	Hudson Bay	L.S.R.	N.S.R.F.
004	219/0535	219/1625	Line 10	Hudson Bay	L.S.R.	N.S.R.F.
005	219/2035	220/0330	Line 11	Hudson Bay	L.S.R.	N.S.R.F.
006	220/0335	220/1130	Line 12	Hudson Bay	L.S.R.	N.S.R.F.
007	221/0355	221/1855	Line 15	Hudson Bay	L.S.R.	N.S.R.F.
008	221/2355	222/1255	Lines 16,17	Hudson Bay	L.S.R.	N.S.R.F.
009	223/0245	223/0425	Line 18	Hudson Bay	L.S.R.	N.S.R.F.
010	223/1020	223/1935	Lines 18,19	Hudson Bay	L.S.R.	N.S.R.F.
011	223/1940	224/1140	Line 19	Hudson Bay	L.S.R.	N.S.R.F.
012	225/2005	226/1200	McGill 1-10	Hudson Bay	L.S.R.	N.S.R.F.
013	226/1910	226/2055	McGill 12	Hudson Bay	L.S.R.	N.S.R.F.
014	228/0120	228/1800	Lines 23-25	Hudson Bay	L.S.R.	N.S.R.F.
015	228/1805	229/0310	Lines 25,26	Hudson Bay	L.S.R.	N.S.R.F.
016	230/0150	230/2355	Lines 27,28	Hudson Bay	L.S.R.	N.S.R.F.
017	231/0245	231/1635	Lines 28,29	Hudson Bay	L.S.R.	N.S.R.F.
018	231/1640	232/2155	Lines 30,31	Hudson Bay	L.S.R.	N.S.R.F.
019	231/0245	231/2125	Lines 28,29	Hudson Bay	L.S.R.	N.S.R.F.
001	216/0500	217/1740	Lines 2-6	Hudson Bay	L.S.R.	S.E. 100'
001	217/2335	218/1025	Line 7	Hudson Bay	L.S.R.	S.E. 25'
002	218/1045	218/1204	Line 7	Hudson Bay	L.S.R.	S.E. 25'
003	218/1610	219/0305	Lines 8,9	Hudson Bay	L.S.R.	S.E. 25'
004	219/0545	219/1625	Line 10	Hudson Bay	L.S.R.	S.E. 25'
005	219/2035	220/0325	Line 11	Hudson Bay	L.S.R.	S.E. 25'
006	220/0340	220/1130	Line 12	Hudson Bay	L.S.R.	S.E. 25'
007	221/0355	221/1855	Line 15	Hudson Bay	L.S.R.	S.E. 25'
008	221/1905	222/1255	Lines 16,17	Hudson Bay	L.S.R.	S.E. 25'
009	223/0245	223/1935	Lines 18,19	Hudson Bay	L.S.R.	S.E. 25'
010	223/1940	224/1140	Lines 20,21	Hudson Bay	L.S.R.	S.E. 25'

AIRGUN SEISMIC RECORDS 87-028 (CONTINUED)

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE
011	225/2005	226/1200	McGill 1-11	Hudson Bay	L.S.R.	S.E. 25'
012	226/1210	226/2055	McGill 12	Hudson Bay	L.S.R.	S.E. 25'
013	228/0115	228/1805	Lines 23-25	Hudson Bay	L.S.R.	S.E. 25'
014	228/1810	229/2055	Line 26	Hudson Bay	L.S.R.	S.E. 25'
015	230/0150	230/2355	Lines 27,28	Hudson Bay	L.S.R.	S.E. 25'
016	231/0245	231/1635	Lines 28,29	Hudson Bay	L.S.R.	S.E. 25'
017	231/1640	231/1940	Line 30	Hudson Bay	L.S.R.	S.E. 25'
018	232/0235	232/2130	Lines 30,31	Hudson Bay	L.S.R.	S.E. 25'

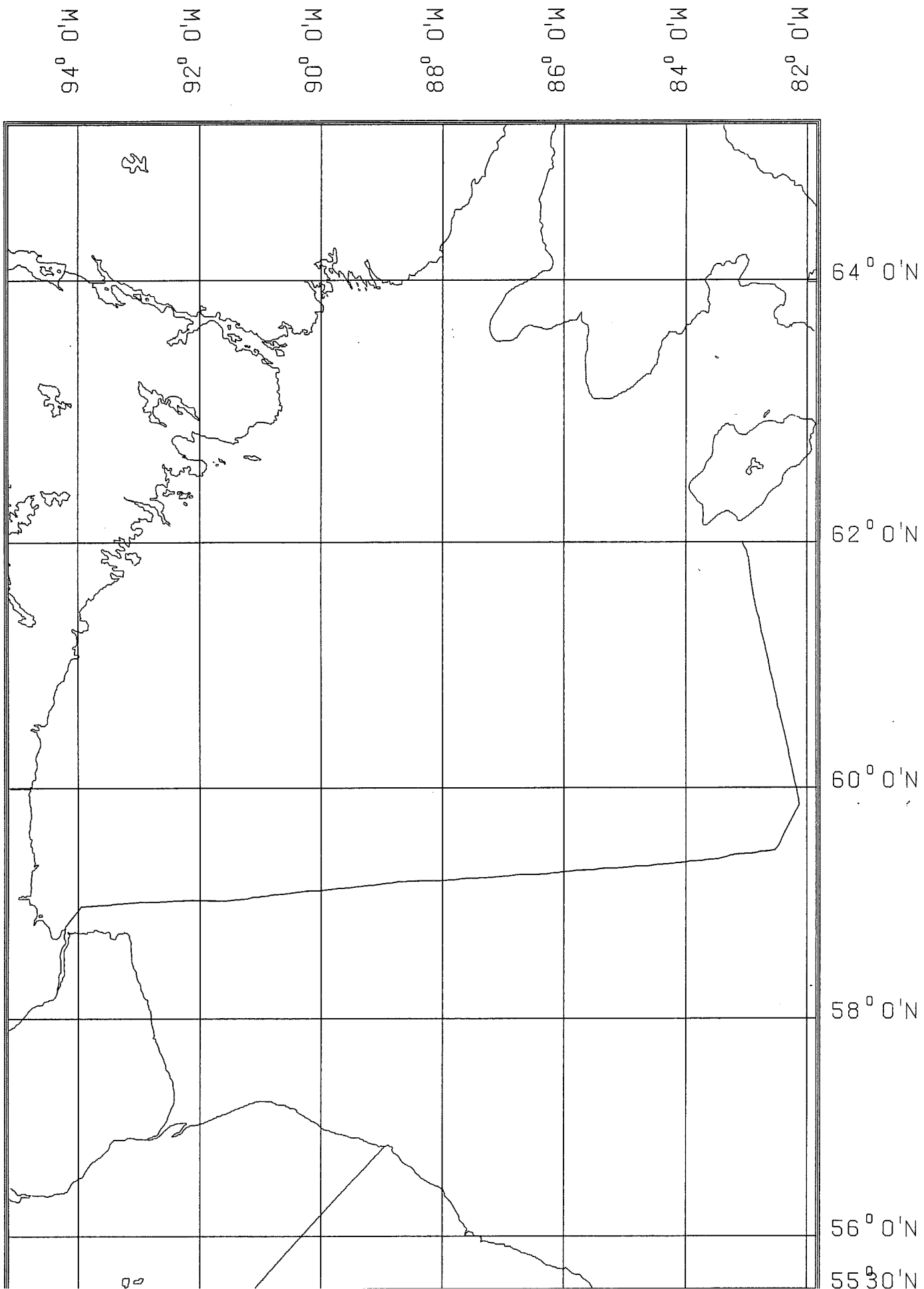
HUNTEC D.T.S. RECORDS 87-028

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE
001	216/1655	217/0145	Lines 3,4	Hudson Bay	EPC	External
002	217/0605	217/1310	Line 5	Hudson Bay	EPC	External
003	217/1314	218/1204	Lines 6,7	Hudson Bay	EPC	External
004	218/1615	218/1710	Line 8	Hudson Bay	EPC	External
005	218/1715	219/0330	Lines 8,9	Hudson Bay	EPC	External
006	219/0525	219/1230	Line 10	Hudson Bay	EPC	External
007	219/1240	219/1620	Line 10	Hudson Bay	EPC	External
008	219/2010	220/0330	Line 11	Hudson Bay	EPC	External
009	220/0335	220/0930	Line 12	Hudson Bay	EPC	External
010	220/0936	220/1125	Line 12	Hudson Bay	EPC	External
011	221/0355	221/0800	Line 15	Hudson Bay	EPC	External
012	221/0810	221/1900	Line 15	Hudson Bay	EPC	External
013	220/0040	222/1255	Line 17	Hudson Bay	EPC	External
014	223/0255	223/1110	Line 18	Hudson Bay	EPC	External
015	223/1530	223/1935	Line 19	Hudson Bay	EPC	External
016	224/1255	224/1330	Line 22	Hudson Bay	EPC	External
017	225/2015	226/0020	Line 23	Hudson Bay	EPC	External
018	226/0022	226/1210	McGill 2-10	Hudson Bay	EPC	External
019	228/0124	228/1705	Lines 23-25	Hudson Bay	EPC	External
020	228/1710	229/0255	Lines 25-26	Hudson Bay	EPC	External
021	230/1350	230/2215	Lines 27-28	Hudson Bay	EPC	External
022	230/0220	231/0550	Line 28	Hudson Bay	EPC	External
023	231/0600	231/1635	Lines 28-29	Hudson Bay	EPC	External
024	231/1640	231/1900	Lines 29-30	Hudson Bay	EPC	External
025	231/1907	232/1949	Lines 30-31	Hudson Bay	EPC	External
026	232/1949	232/2125	Line 31	Hudson Bay	EPC	External
001	216/1655	217/0145	Lines 3,4	Hudson Bay	EPC	Internal
002	217/0610	217/1720	Lines 5,6	Hudson Bay	EPC	Internal
003	217/2325	218/0820	Line 7	Hudson Bay	EPC	Internal

HUNTEC D.T.S. RECORDS 87-028 (CONTINUED)

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE NUMBER	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE
004	218/0825	218/1204	Line 7	Hudson Bay	EPC	Internal
005	218/1615	219/0330	Lines 8,9	Hudson Bay	EPC	Internal
006	219/0510	219/1620	Line 10	Hudson Bay	EPC	Internal
007	219/2010	220/0330	Line 11	Hudson Bay	EPC	Internal
008	220/0335	220/0350	Line 12	Hudson Bay	EPC	Internal
009	220/0355	220/1125	Line 12	Hudson Bay	EPC	Internal
010	221/0345	221/0800	Line 15	Hudson Bay	EPC	Internal
011	221/0810	221/1700	Line 15	Hudson Bay	EPC	Internal
012	221/1705	221/1900	Line 15	Hudson Bay	EPC	Internal
013	221/2331	222/1255	Lines 16,17	Hudson Bay	EPC	Internal
014	223/0240	223/1110	Lines 18,19	Hudson Bay	EPC	Internal
015	223/1525	223/1940	Line 19	Hudson Bay	EPC	Internal
016	223/2315	224/0250	Line 20	Hudson Bay	EPC	Internal
017	224/1255	224/1330	Line 22	Hudson Bay	EPC	Internal
018	225/2015	225/2020	McGill 1	Hudson Bay	EPC	Internal
019	225/2025	226/1221	McGill 1-10	Hudson Bay	EPC	Internal
020	226/1915	226/2122	McGill 12	Hudson Bay	EPC	Internal
021	228/0300	228/1254	Line 23	Hudson Bay	EPC	Internal
022	228/1256	228/1730	Line 23-25	Hudson Bay	EPC	Internal
023	228/1918	229/0300	Line 26	Hudson Bay	EPC	Internal
024	230/1655	231/0555	Line 28	Hudson Bay	EPC	Internal
025	231/0600	231/1435	Lines 28,29	Hudson Bay	EPC	Internal
026	231/1440	231/1635	Line 29	Hudson Bay	EPC	Internal
027	232/1640	231/1945	Line 30	Hudson Bay	EPC	Internal
028	232/0335	232/1620	Lines 30,31	Hudson Bay	EPC	Internal
027	232/1627	232/2135	Line 31	Hudson Bay	EPC	Internal

87-031 CSS HUDSON
1-4 MILLION AT 65N



3 = 87-031 HUDSON

REFLECTION RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	235/1620	236/1421	1
002	235/1620	236/1422	1
003	236/1424	237/1625	2
004	236/1424	237/1630	2
005	237/1630	237/2150	2,3
006	137/1631	238/1340	2,3
007	237/2215	238/1340	3

3.5 kHz BATHYMETRY RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	235/1420	236/0105	1
002	236/0110	236/0525	1

12 kHz BATHYMETRY RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	235/1405	236/2355	1,2
002	237/0000	238/1345	2,3

BIO SIDESCAN RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	235/1445	236/0435	1
002	236/0440	236/1420	1
003	236/1424	236/1640	2
004	236/1650	237/0505	2
005	237/0510	237/1400	2
006	237/1525	237/1620	2
007	237/1730	238/0345	2,3
008	238/0351	238/1345	3

HUNTEC (EXTERNAL) RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	236/0250	236/1424	1
002	236/1424	237/0250	2
003	237/1630	238/0000	2,3
004	238/0000	238/1350	3

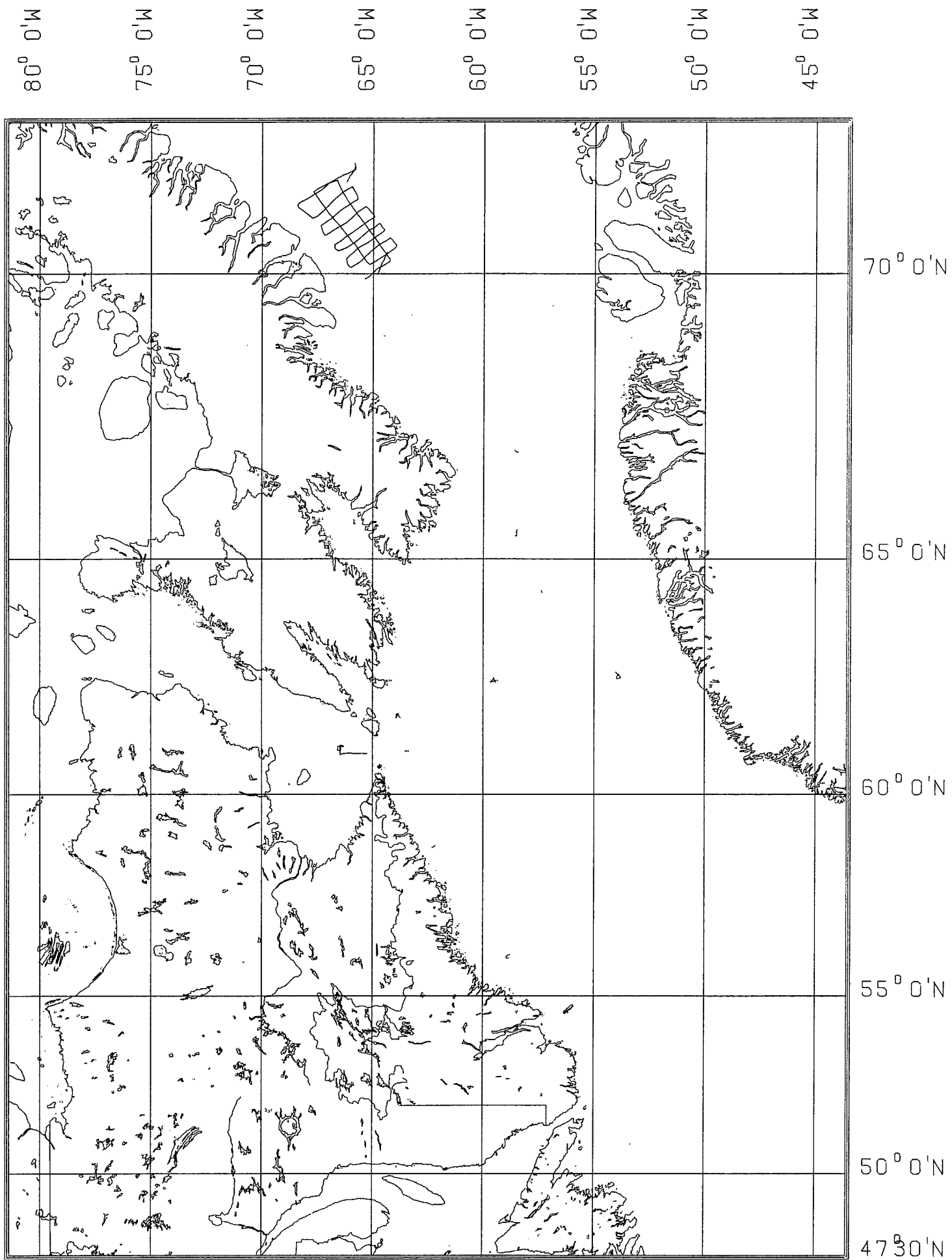
HUNTEC (INTERNAL) RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	236/0620	236/1420	1
002	236/0030	237/0855	1,2
003	236/1424	236/2045	2
004	237/0251	237/1625	2
005	237/1630	237/2205	2,3
006	237/0859	237/1625	2
007	237/2210	238/1350	3

HUNTEC (SIDESCAN) RECORDS 87-031

ROLL #	START DAY/ TIME	STOP DAY/ TIME	LINE #
001	236/0610	236/1900	1,2
002	236/1930	237/1400	2
003	237/1452	238/1030	2,3
004	238/1039	238/1340	3

97-033 CSS HUDSON
1-7 MILLION AT 74N



97/033

3.5 ACOUSTIC PROFILER RECORDS 87-033

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER
001	261/1950	262/0430	Baffin Bay	EPC
002	262/0435	263/0340	Baffin Bay	EPC
003	263/0340	264/0135	Baffin Bay	EPC
004	264/0135	264/2115	Baffin Bay	EPC
005	264/2115	264/2215	Baffin Bay	EPC
006	264/2220	265/0110	Baffin Bay	EPC
007	265/0130	265/1335	Baffin Bay	EPC
008	265/1545	266/1845	Baffin Bay	EPC
009	266/1850	266/2340	Baffin Bay	EPC
010	268/2200	270/1810	Davis Strait	EPC
011	271/1135	272/1810	David Strait	EPC

12 kHz BATHYMETRY RECORDS 87-033

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER
001	261/1950	262/1105	Baffin Bay	L.S.R.
002	262/1114	263/2200	Baffin Bay	L.S.R.
003	263/2205	265/1345	Baffin Bay	L.S.R.
004	265/1535	266/2350	Baffin Bay	L.S.R.
005	267/1125	267/1325	Itirbilung Fiord	L.S.R.
006	268/2145	270/1850	Davis Strait	L.S.R.
007	271/1120	272/1955	Davis Strait	L.S.R.
008	272/2005	278/0420	Labrador Sea	L.S.R.
009	278/1630	278/0600	Bonavista Bay	L.S.R.
010	279/0640	279/0745	Bonavista Bay	L.S.R.

AIRGUN SEISMIC RECORDS 87-033

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE	NOTES
001	261/2219	264/1400	Baffin Bay	L.S.R.	S.E. 100'	Change to 100' at 2641106
002	264/1410	265/1335	Baffin Bay	L.S.R.	S.E. 100'	
003	265/1550	266/2345	Baffin Bay	L.S.R.	S.E. 100'	
004	268/2150	270/1805	Davis Strait	L.S.R.	S.E. 100'	
005	271/1130	271/1640	Davis Strait	L.S.R.	S.E. 100'	
006	272/0525	273/0920	Resolution Basin	L.S.R.	S.E. 100'	
007	273/2315	277/0610	Labrador Sea	L.S.R.	S.E. 100'	
008	278/1635	279/0600	Bonavista Bay	L.S.R.	S.E. 100'	
001	261/2020	264/1415	Baffin Bay	L.S.R.	S.E. 25'	
002	264/1425	265/1335	Baffin Bay	L.S.R.	S.E. 25'	
003	265/1550	266/2345	Baffin Bay	L.S.R.	S.E. 25'	
004	268/2150	269/1050	Davis Strait	L.S.R.	S.E. 25'	
005	269/1310	270/1805	Davis Strait	L.S.R.	S.E. 25'	
006	271/1130	271/1650	Davis Strait	L.S.R.	S.E. 25'	
007	272/0525	273/0920	Resolution Basin	L.S.R.	S.E. 25'	
008	273/2315	277/0610	Labrador Sea	L.S.R.	S.E. 25'	
009	278/1635	279/0600	Bonavista Bay	L.S.R.	S.E. 25'	

AIRGUN SEISMIC TAPES 87-033

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
001	262/0345	262/1628	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
002	262/1629	263/0516	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
003	263/0517	263/1705	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
004	263/1805	264/0655	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
005	264/0700	264/2000	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
006	264/2004	265/0850	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
007	265/0852	265/2340	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
008	265/2341	265/	Baffin Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
009	268/2148	271/1544	Davis Strait	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
010	271/1544	273/0100	Labrador Sea	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT

AIRGUN SEISMIC TAPES 87-033

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
011	273/0102	275/0736	Labrador Sea	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
012	275/0737	277/0335	Labrador Sea	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
013	277/0335	279/0510	Labrador Sea	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT
014	277/0514	279/0600	Bonavista Bay	FM-100' S.E. RAW FM-25' S.E. RAW DR-NSRF RAW FM-SHOT

HUNTEC D.T.S. RECORDS 87-033

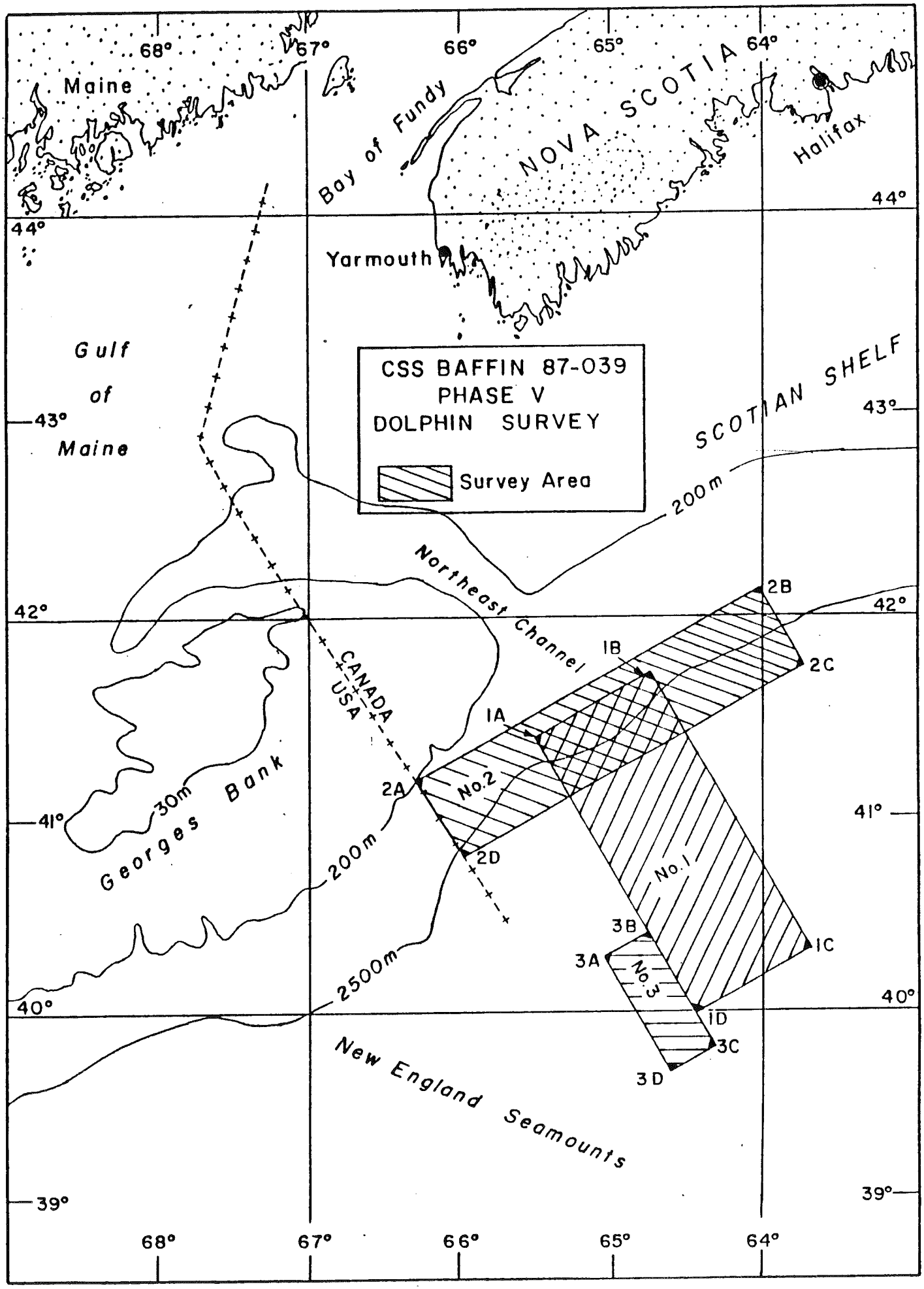
ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE
001	262/1310	262/1818	Baffin Bay	EPC	External
002	262/1850	263/1855	Baffin Bay	EPC	External
003	266/1115	266/2345	Baffin Bay	EPC	External
004	267/1140	267/1225	Itirbilung Fiord	EPC	External
005	269/0910	272/1710	Davis Strait	EPC	External
006	272/1905	273/0935	Hudson Strait	EPC	External
007	273/1350	273/1405	Hudson Strait	EPC	External
008				EPC	External
009	275/0535	275/0755	Labrador Sea	EPC	External
010	276/1301	277 /0220	Labrador Sea	EPC	External
011	277/0225	277/0600	Labrador Sea	EPC	External
012	278/0345	278 /0420	N.E. Nfld. Shelf	EPC	External
013	278/1635	279/0600	Bonavista Bay	EPC	External
001	262/1255	262/1420	Baffin Bay	EPC	Internal
002	262/1425	266/2345	Baffin Bay	EPC	Internal
003	267/1135	267/1225	Itirbilung Fiord	EPC	Internal
004	269/0910	272/0915	Davis Strait	EPC	Internal
005	272/1550	273/0200	Hudson Strait	EPC	Internal
006	276/1315	276/1750	Labrador Sea	EPC	Internal
007	276/1800	277/0603	Labrador Sea	EPC	Internal
008	278/0345	278/0420	N.E. Nfld. Shelf	EPC	Internal
009	278/1635	279/0600	Bonavista Bay	EPC	Internal
05A	272/0005	272/0940	Hudson Strait	EPC	Internal
09A	278/1635	279/0600	Bonavista Bay	EPC	Internal

HUNTEC D.T.S. TAPES 87-033

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS	NOTES
001	262/1322	262/1621	Baffin Bay	Internal Trigger External Time Fix	Boomer Mode
002	262/1622	262/2011	Baffin Bay	Internal Trigger External Time Fix	Boomer Mode
003	262/2016	266/2115	Baffin Bay	Internal Trigger External Time Fix	Boomer Mode
004	266/2116	267/1221	Baffin Bay	Internal Trigger External Time Fix	Boomer Mode
005	267/1221	272/0717	Davis Strait	Internal Trigger External Time Fix	Boomer Mode
006	272/0718		Davis Strait	Internal Trigger External Time Fix	Boomer Mode
007	272/1902	272/2219	Hudson Strait	Internal Trigger External Time Fix	Boomer Mode
008	272/2220	273/0134	Hudson Strait	Internal Trigger External Time Fix	Boomer Mode
009	273/0136	273/0430	Hudson Strait	Internal Trigger External Time Fix	Boomer Mode
010	273/0451	273/0805	hudson Strait	Internal Trigger External Time Fix	Boomer Mode

HUNTEC D.T.S. TAPES 87-033 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS	NOTES
011	274/0451	275/0736	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
012	274/1136	275/0736	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
013	275/0737	276/1824	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
014	276/1825	276/2139	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
015	276/2140	277/0050	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
016	277/0055	277/0409	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
017	277/0410	278/1724	Labrador Sea	Internal Trigger External Time Fix	Boomer Mode
018	278/1725	278/2039	Bonavista Bay	Internal Trigger External Time Fix	Boomer Mode
019	278/2040	278/2353	Bonavista Bay	Internal Trigger External Time Fix	Boomer Mode
020	279/0000	279/0600	Bonavista Bay	Internal Trigger External Time Fix	Boomer Mode


Maine
Bay of Fundy
NOVA SCOTIA
Halifax
Yarmouth
Gulf of Maine
CSS BAFFIN 87-039
PHASE V
DOLPHIN SURVEY
Survey Area
SCOTIAN SHELF
200m
Northeast Channel
CANADA
USA
Georges Bank
30m
200m
2500m
New England Seamounts
1A
1B
1C
1D
2A
2B
2C
2D
3A
3B
3C
3D
No. 1
No. 2
No. 3
68°
67°
66°
65°
64°
44°
43°
42°
41°
40°
39°

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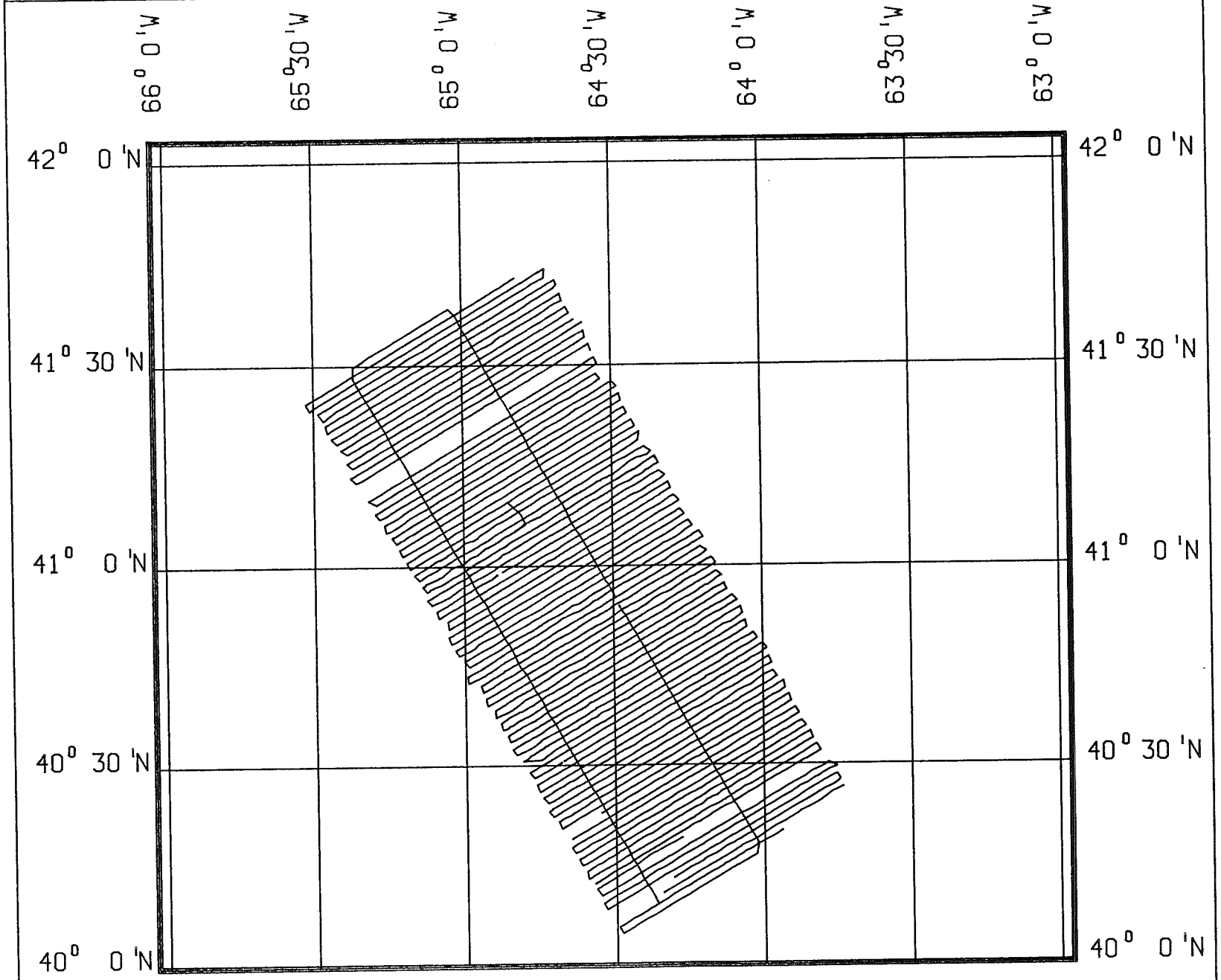
BAFFIN 87-039
1/1500000 AT 45N



CRUISES/FILES ON THIS PLOT ARE:

87039

ATLANTIC GEOSCIENCE CENTRE

BAFFIN Offshore Survey 87039
Scotian Shelf Nov. 1987
41° N 65° W

List of Sounding Rolls
Elac LAZ 4700 12 KHZ

Roll #	Date	From	To
1	2 /11/87 JD306	0000	2400
2	3/11/87 JD307	0000	2400
3	4/11/87 JD308	0000	2400
4	5/11/87 JD309	0000	2400
5	6/11/87 JD310	0000	2400
6	7/11/87 JD311	0000	2400
7	8/11/87 JD312	0000	2400
8	9/11/87 JD313	0000	2400
9	10/11/87 JD314	0000	2400
10	11/11/87 JD315	0000	2400
11	12/11/87 JD316	0000	2400
12	13/11/87 JD317	0000	1520
13	14/11/87 JD318	1500	2400
14	15/11/87 JD319	0000	2400
15	16/11/87 JD320	0000	2400
16	17/11/87 JD321	0000	2400
17	18/11/87 JD322	0000	2400
18	19/11/87 JD323	0000	1330

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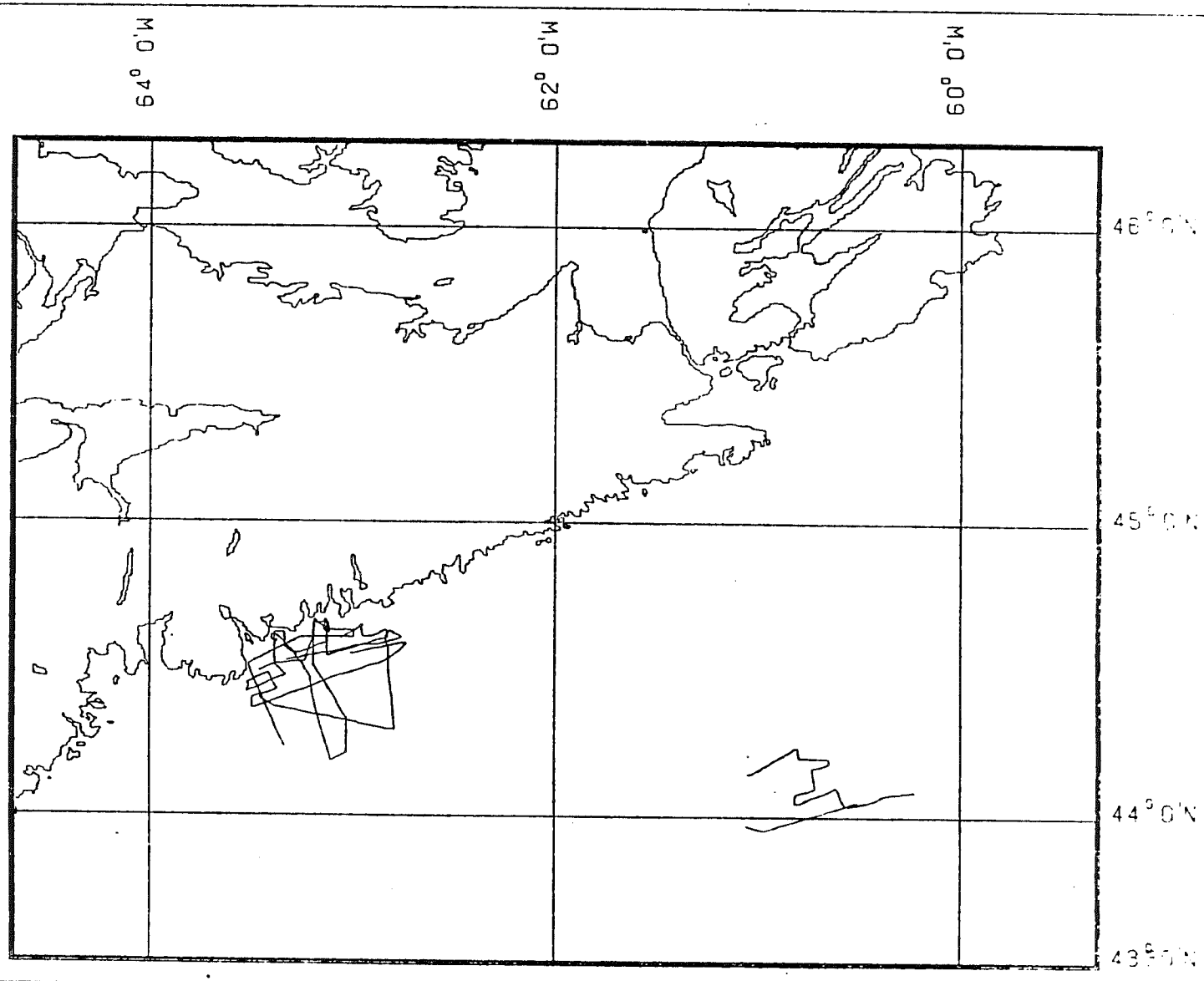
87-042 DAWSON



LABELS PLOTTED IN THIS AREA REPRESENT THE CRUISES/FILES CONTAINED ON THIS PLOT

87042

ATLANTIC GEOSCIENCE CENTRE

PARAMETER RECORDING PERIODS 87-042

PARAMETER NAME	START DAY/ TIME	STOP DAY/ TIME
12 kHz Bathymetry	306/2134	307/1440
12 kHz Bathymetry	307/2042	308/1200
12 kHz Bathymetry	309/0138	309/1300
12 kHz Bathymetry	309/2100	310/1411
12 kHz Bathymetry	311/0147	311/1730
12 kHz Bathymetry	312/0500	312/1700
12 kHz Bathymetry	313/0316	313/0730
Klein Sidescan	306/2215	307/1440
Klein Sidescan	307/2045	308/1200
Klein Sidescan	309/0212	309/1300
Klein Sidescan	309/2100	310/1411
Klein Sidescan	311/0147	311/1730
Klein Sidescan	312/0500	312/1649
Klein Sidescan	313/0316	313/0730
NSRF Deep Tow	307/0004	307/0117
NSRF Deep Tow	307/0150	307/1122
NSRF Deep Tow	308/0006	308/0618
NSRF Deep Tow	308/0631	308/1200
NSRF Deep Tow	309/0915	309/1300
NSRF Deep Tow	309/2100	310/0830
NSRF Deep Tow	310/0845	310/1000
NSRF Deep Tow	311/0147	311/1153
NSRF Deep Tow	312/0500	312/1700
NSRF Deep Tow	313/0316	313/0730
Geopulse Seismics	306/2208	307/1440
Geopulse Seismics	309/0247	309/1300
Geopulse Seismics	310/1030	310/1411
Brutiv Camera Sled	306/2345	307/0131
Brutiv Camera Sled	309/0138	309/0145

SEISMIC TAPES 87-042

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
001	306/2215	307/0120	Off Cole Harbour	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
002	307/0120	307/0434	Off Cole Harbour	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
003	307/0437	307/0751	Off Cole Harbour	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
004	307/0753	307/1105	Off Cole Harbour	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
005	307/1109	307/1424	Off Cole Harbour	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
006	308/0000	308/0320	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
007	308/0320	308/0632	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
008	308/0634	308/0948	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
009	308/0951	309/0352	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
010	309/0352	309/0706	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal

SEISMIC TAPES 87-042 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
011	309/0708	309/1020	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
012	309/1022	309/2115	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
013	309/2126	310/0040	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
014	310/0040	310/0354	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
015	310/0357	310/0708	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
016	310/0710	310/1024	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
017	310/1025	310/1343	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
018	310/1345	311/0437	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
019	311/0452	311/0805	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
020	311/0808	311/1123	Inner Scotian Shelf	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal

SEISMIC TAPES 87-042 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
021	311/1127	312/0827	Shelf & Sable	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
022	312/0832	312/1145	Sable Island	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
023	312/1150	312/1505	Sable Island	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
024	312/1507	313/0441	Sable Island	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal
025	313/0444	313/0730	Sable Island	1 = Geopulse Signal 2 = Geopulse Key 6 = NSRF Key 8 = NSRF Signal

AIRGUN SEISMIC RECORDS 87-042

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER	HYDRO-PHONE
001	307/0020	307/1123	Off Cole Harbour	EPC	V-Fin
002	307/2350	308/1200	Inner Scotian Shelf	EPC	V-Fin
003	309/0905	309/1300	Inner Scotian Shelf	EPC	V-Fin
004	309/2103	310/0505	Inner Scotian Shelf	EPC	V-Fin
005	310/0512	310/1000	Inner Scotian Shelf	EPC	V-Fin
006	310/0150	311/0910	Inner Scotian Shelf	EPC	V-Fin
007	311/0911	311/1150	Inner Scotian Shelf	EPC	V-Fin
008	312/0450	312/1655	Sable Island	EPC	V-Fin
009	313/0330	313/0730	Sable Island	EPC	V-Fin
001	306/2158	307/1437	Inner Scotian Shelf	EPC 1600	
002	309/0250	310/1411	Inner Scotian Shelf	EPC 1600	

KLEIN SIDESCAN TAPES 87-042

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
001	306/2215	307/0113	Off Cole Harbour	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
002	307/0115	307/0424	Off Cole Harbour	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
003	307/0427	307/0739	Off Cole Harbour	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
004	307/0800	307/1056	Off Cole Harbour	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
005	307/1058	307/1413	Off Cole Harbour	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
006	307/1413	307/2320	Inner Scotian Shelf	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
007	307/2322	308/0220	Inner Scotian Shelf	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
008	308/0230	308/0530	Inner Scotian Shelf	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
009	308/0546	308/0900	Inner Scotian Shelf	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice
010	308/0903	308/1200	Inner Scotian Shelf	1=FM Left 2=FM Right 3=DR Ref 4=DR Voice

KLEIN SIDESCAN TAPES 87-042 (CONTINUED)

TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
011	309/0209	309/0518	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
012	309/0520	309/0830	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
013	309/0835	309/1309	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
014	309/1148	309/2252	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
015	309/2253	310/0210	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
016	310/0210	310/0520	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
017	310/0523	310/0835	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
018	310/0837	310/1147	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
019	310/1150	311/0238	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
020	311/0239	311/0548	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice

KLEIN SIDESCAN TAPES 87-042 (CONTINUED)

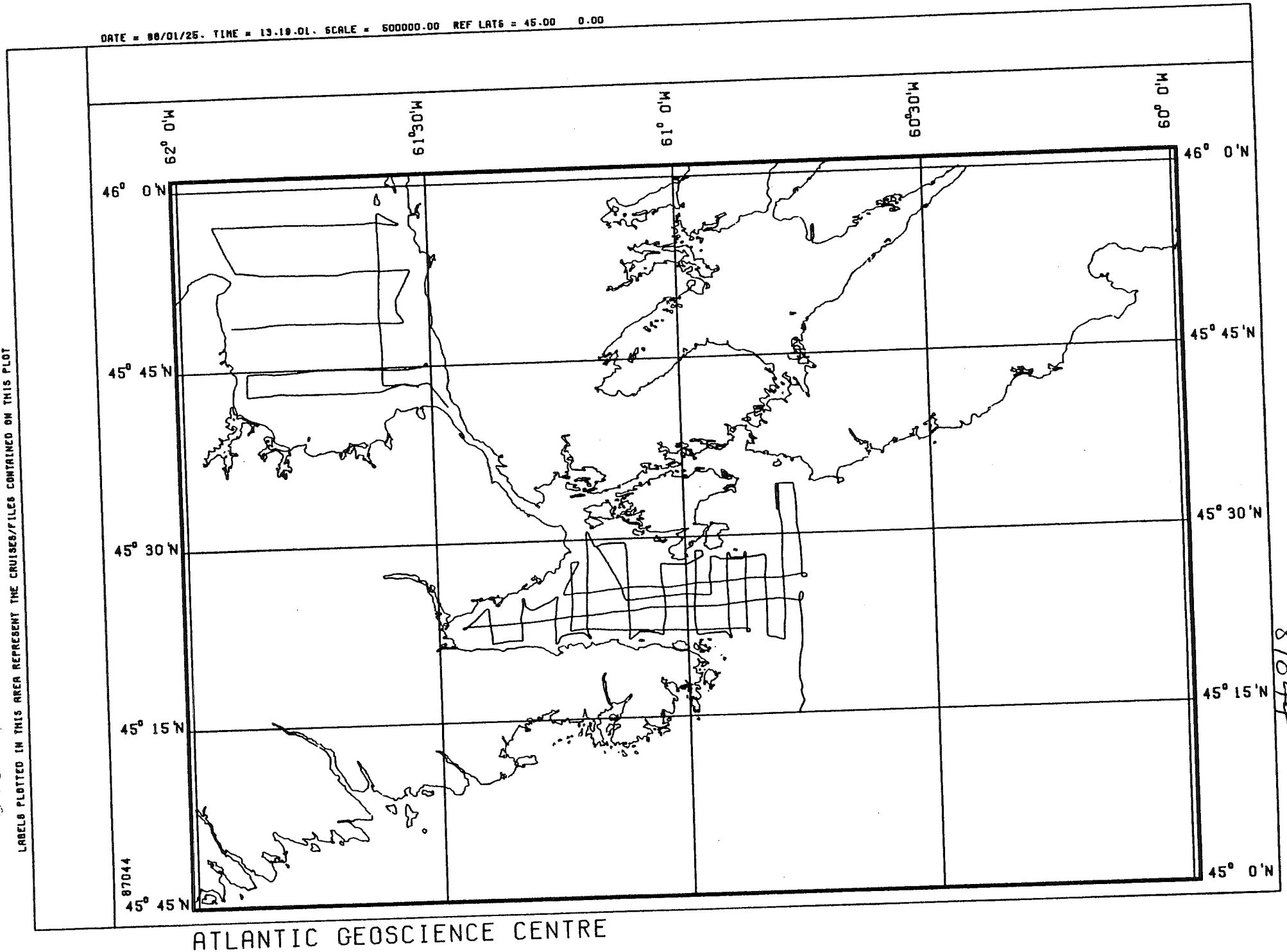
TAPE #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	CHANNELS
021	311/0552	311/0901	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
022	311/0901	311/1215	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
023	311/1219	311/1526	Inner Scotian Shelf	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
024	311/1530	312/0550	Shelf & Sable	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
025	312/0552	312/0902	Sable Island	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
026	312/0904	312/1214	Sable Island	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
027	312/1217	312/1526	Sable Island	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
028	312/1530	313/0457	Sable Island	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice
029	313/0459	313/0730	Sable Island	1 = FM Left 2 = FM Right 3 = DR Ref 4 = DR Voice

KLEIN SIDESCAN RECORDS 87-042

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER
001	306/2215	307/0417	Off Cole Harbour	Hydroscan
002	307/0420	307/1425	Off Cole Harbour	Hydroscan
003	307/2205	308/0515	Inner Scotian Shelf	Hydroscan
004	308/0519	308/1200	Inner Scotian Shelf	Hydroscan
005	309/0215	309/1155	Inner Scotian Shelf	Hydroscan
006	309/1157	309/1300	Inner Scotian Shelf	Hydroscan
007	309/2100	310/0449	Inner Scotian Shelf	Hydroscan
008	310/0451	310/1411	Inner Scotian Shelf	Hydroscan
009	311/0148	311/0200	Inner Scotian Shelf	Hydroscan
010	311/1030	311/1734	Inner Scotian Shelf	Hydroscan
011	312/0500	312/1340	Sable Island	Hydroscan
012	312/1345	312/1704	Sable Island	Hydroscan
013	313/0330	313/0740	Sable Island	Hydroscan

12 kHz BATHYMETRY RECORDS 87-042

ROLL #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC LOCATION	RE-CORDER
001	306/1500	307/0420	Inner Scotian Shelf	Ray (UGR)
002	307/0130	308/1100	Inner Scotian Shelf	Ray (UGR)
003	308/1115	310/1200	Inner Scotian Shelf	Ray (UGR)
004	310/1205	312/1345	Shelf & Sable	Ray (UGR)


DATE = 88/01/25. TIME = 13.18.01. SCALE = 500000.00 REF LATS = 45.00 0.00
62° 0'W
61°30'W
61° 0'W
60°30'W
60° 0'W
46° 0'N
45° 45'N
45° 30'N
45° 15'N
45° 0'N
87044
LABELS PLOTTED IN THIS AREA REPRESENT THE CRUISES/FILES CONTAINED ON THIS PLOT
ATLANTIC GEOSCIENCE CENTRE

87044

87044

KLEIN SIDESCAN TAPES 87-044

TAPE #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	322/0249	322/0640	NSRFC
002	322/0642	322/1500	NSRFC
003	322/1510	323/0000	NSRFC
004	323/0045	323/0910	NSRFC
005	323/0915	323/1535	NSRFC
006	323/1815	324/0045	NSRFC
007	324/0055	324/0430	NSRFC
008	324/0435	324/0950	NSRFC
009	324/0955	324/1710	NSRFC
010	324/1715	324/2200	NSRFC
011	324/2205	325/0010	NSRFC
012	325/1720	325/2345	NSRFC
013	325/2350	326/0515	NSRFC
014	326/0520	326/0930	NSRFC

NSRFC DEEP TOW RECORDS 87-044

ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	322/0300	322/0557	Sparker System
002	322/0600	323/0005	Sparker System
003	323/0025	323/1000	Sparker System
004	323/1010	323/1510	Sparker System
005	323/1520	323/1725	Sparker System
006	323/1740	323/1925	Sparker System
007	323/1930	324/0525	Sparker System
008	324/0530	324/1210	Sparker System
009	324/1548	325/2240	Sparker System
010	325/2245	326/0940	Sparker System

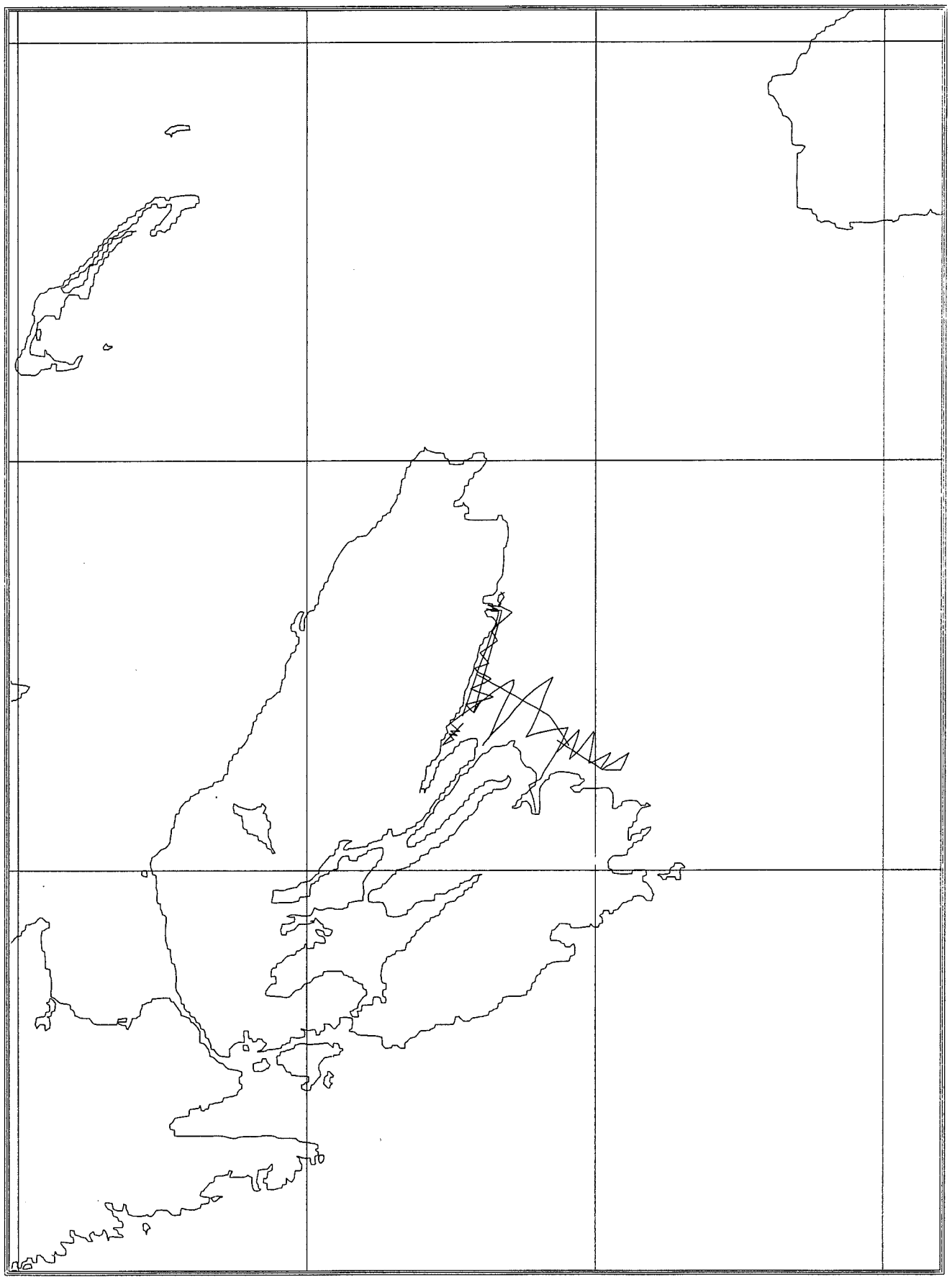
NSRFC SURFACE TOW RECORDS 87-044

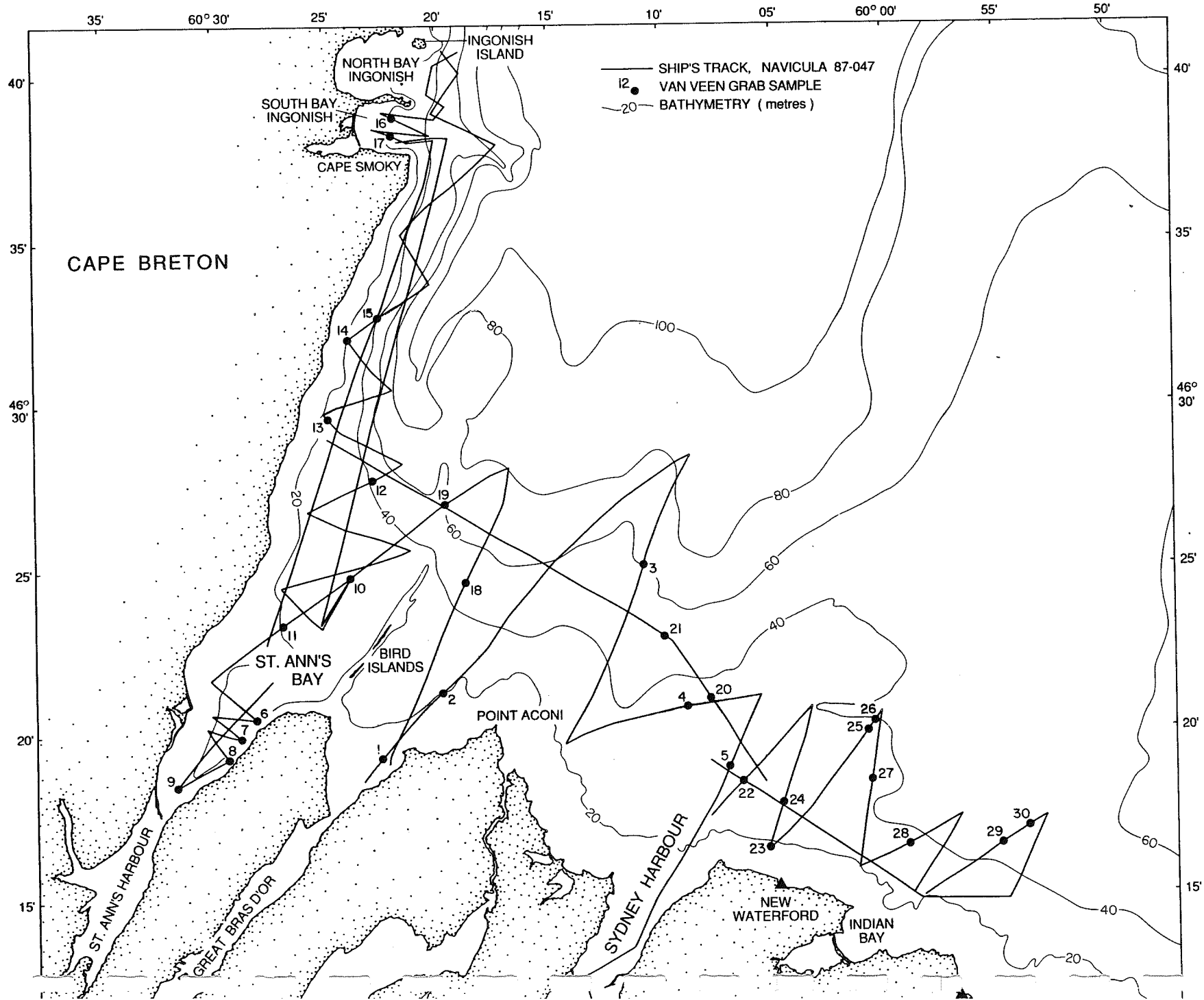
ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	322/0420	322/1805	Sparker System
002	322/1810	323/1020	Sparker System
003	323/1030	324/0010	Sparker System
004	324/0015	324/1100	Sparker System
005	324/1548	326/0245	Sparker System

DAWSON LABORATORY RECORDS 87-044

ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	322/0240	322/0240	Echo Sounder
002	322/2105	322/2105	Echo Sounder
003	323/0809	323/0809	Echo Sounder
004	323/1950	323/1950	Echo Sounder
005	324/0715	324/0715	Echo Sounder
006	325/1706	325/1706	Echo Sounder
007	326/0355	326/0355	Echo Sounder

87-047 CSS NAVICULA
1-1.5 MILLION AT 46N




SHIP'S TRACK, NAVICULA 87-047
VAN VEEN GRAB SAMPLE
BATHYMETRY (metres)
CAPE BRETON
INGONISH ISLAND
NORTH BAY INGONISH
SOUTH BAY INGONISH
CAPE SMOKY
ST. ANN'S BAY
BIRD ISLANDS
POINT ACONI
ST. ANN'S HARBOUR
GREAT BRAS D'OR
SYDNEY HARBOUR
NEW WATERFORD
INDIAN BAY
35'
60° 30'
25'
20'
15'
10'
05'
60° 00'
55'
50'
40'
35'
46° 30'
25'
20'
15'

KLEIN SIDESCAN RECORDS 87-047

ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	165/1255	165/1556	100 kHz
002	165/1556	165/1804	100 kHz
003	165/1815	165/2150	100 kHz
004	166/1337	166/1632	100 kHz
005	166/1632	166/1924	100 kHz
006	166/1925	166/2048	100 kHz
007	168/1409	168/1729	100 kHz
008	168/1730	168/2034	100 kHz
009	168/2034	168/2136	100 kHz
010	169/1032	169/1514	100 kHz
011	170/1339	170/1801	100 kHz
012	171/1034	d171/1248	100 kHz
013	171/1250	171/1500	100 kHz
014	171/1500	171/1806	100 kHz
015	171/1809	172/1618	100 kHz

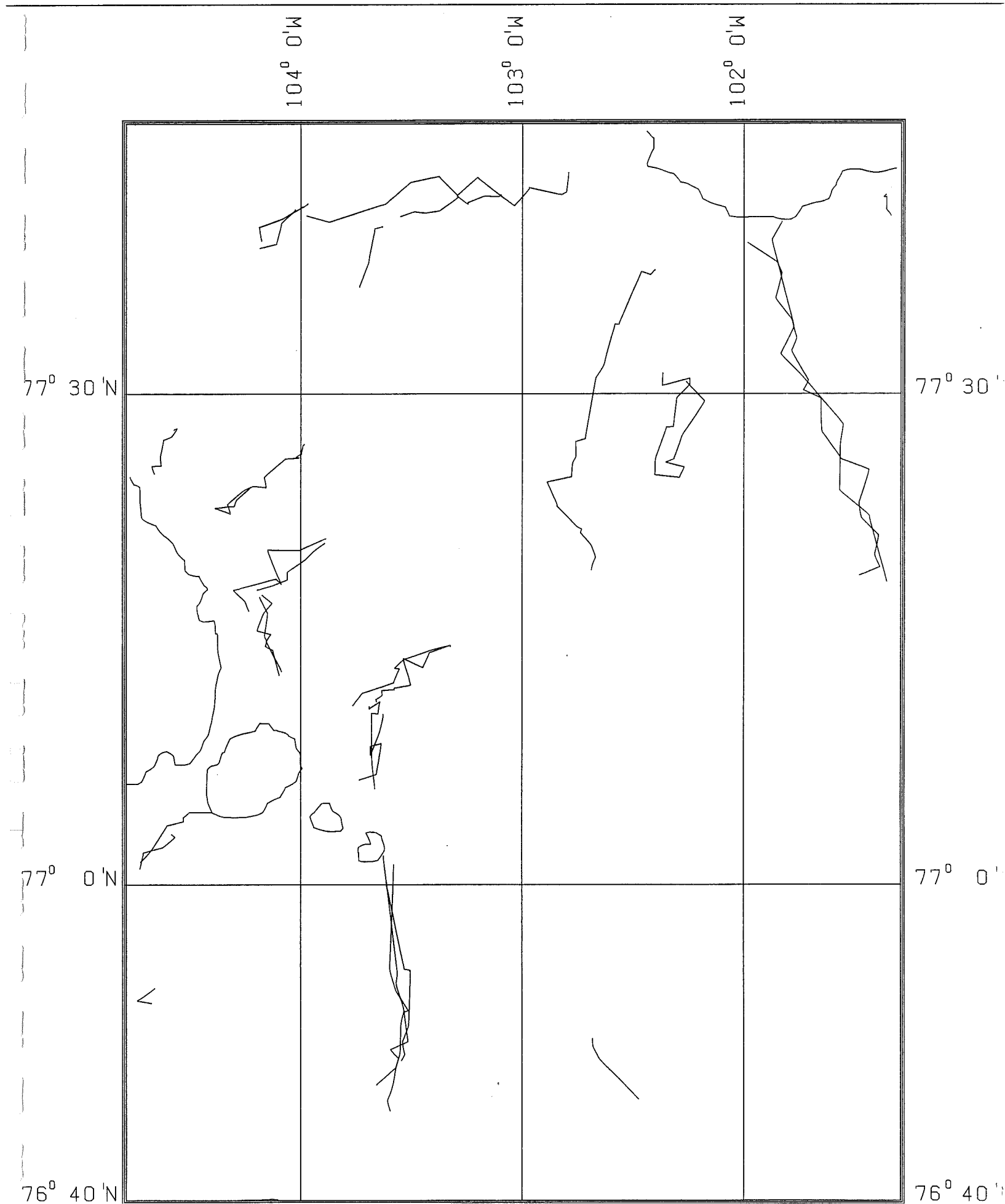
ORE SEISMIC RECORDS 87-047

ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	165/1240	165/2200	3.5 kHz
002	165/2210	166/0108	3.5 kHz
003	166/1334	166/2050	3.5 kHz
004	168/1200	168/1915	3.5 kHz
005	168/1919	169/1717	3.5 kHz
006	170/1342	170/1802	3.5 kHz
007	171/1050	171/1811	3.5 kHz
008	172/1622	172/1810	3.5 kHz

ELAC BATHYMETRY RECORDS 87-047

ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	165/	165/	30 kHz
002	165/	165/	30 kHz
003	166/1315	170/1645	30 kHz
004	170/	172/	30 kHz

87-100 LEADS
1-500000 AT 78N



DATA RECORD 87-100

LEAD	SYSTEM	ROLL #	START DAY/ TIME	STOP DAY/ TIME	TAPE #	LENGTH (KM)
1	Sparker	1	188/0610	189/1005	1, 2	
1	12 kHz	2	201/0625	201/1258		
1	Datasonics	3	202/0832	203/1239		
2	Sparker	4	189/2130	190/0011	3	
2	12 kHz	5	196/1707	196/2037		
3	Sparker	6	190/0300	190/1728	4 - 6	
3	12 kHz	7	190/2120	191/0058		
4	Sparker	8	191/2320	192/0724	7 - 13	44
4	12 kHz	9	193/0540	193/1436	14 - 23	44
5	Sparker	10	195/0812	195/0930	24	
6	Sparker	11	197/0923 197/1402 198/0611	197/1133 197/1539 198/1014	25, 26 27, 28 29, 30	
7	Sparker	12	199/1727	199/1901	31, 32	
7	12 kHz	13	200/2312	201/0044		
8	Sparker	12	199/2250	200/0121	33 - 35	
8	12 kHz	13	200/1736	200/1854		
9	Sparker	14	204/1758 205/0012	204/2053 205/0406	36 - 40	
9	Datasonics	15	205/1934	206/0009		
10	Sparker	16	207/0152	207/0431	41 - 44	
10	12 kHz	17	208/0800	208/1132		
10.1	Sparker	18	207/1932	207/2340	45 - 47	
10.1	12 kHz	19	208/0045	208/0441	48 - 51	
11	Sparker	20	208/2117	209/1452	52 - 66	
11	12 kHz	21	209/2120	209/2340		
12	Sparker	22	212/2338	213/0248	67 - 70	
12	12 kHz	23	212/1837	212/2242		
13	Sparker	24	216/0350	216/0937	71 - 81	
13.1	Sparker	25	217/0326	217/0425		

DATA RECORD 87-100 (CONTINUED)

LEAD	SYSTEM	ROLL #	START DAY/ TIME	STOP DAY/ TIME	TAPE #	LENGTH (KM)
14	Sparker	26	218/0326	218/0901	82 - 84	
15	12 kHz					
15	Sparker	27	218/2010	219/0041	85 - 88	
16	Sparker	28	218/2010	219/0041	Replays	
	12 kHz	29	219/0258	219/0512		
	Sparker	30	220/2132	220/2300	89	

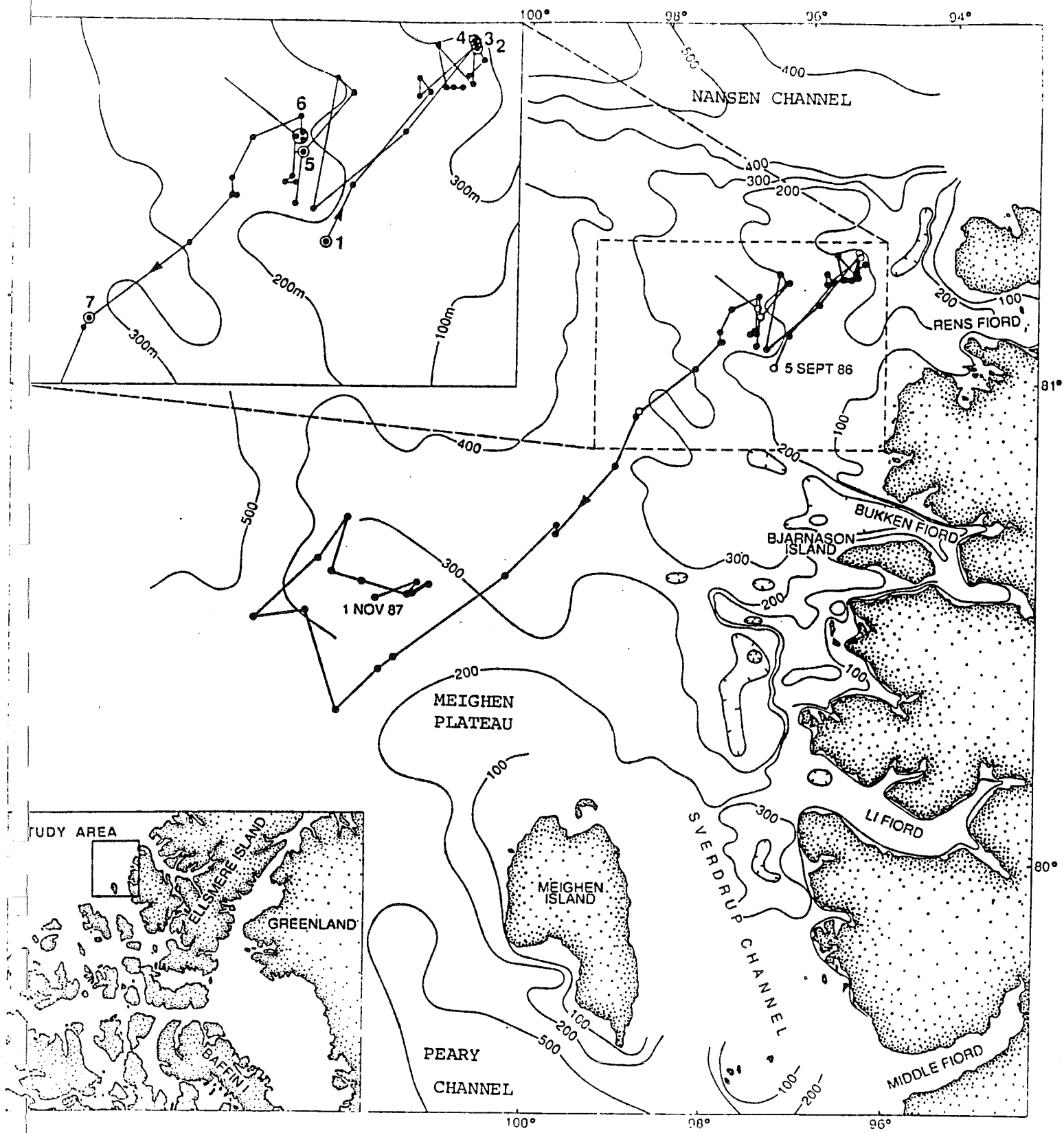


Figure 3. Ice Island drift track September 1986 to November 1987. X = core sites in Peary Channel (87200-022 to -024)

BATHYMETRY RECORDS 87-200

Two sounding depths were recorded:
01:24Z/240 ..... 361 m 01:40Z/245 ..... 480 m

RECORDS 87-200

TAPE #	START DAY/ TIME	COMMENTS
001	245/0307	2 cap. banks & trigger
001	245/0419	Fix No. 1
001	245/0814	Fix No. 2
001	245/1140	Fix No. 3
002	245/1414	Fix No. 4
002	245/2022	Fix No. 5
002	245/2231	Shut down for heat flow and core
002	246/0342	3 cap banks & trigger
002	246/1316	Fix no. 8 end survey

ACOUSTIC RECORDS 87-200

ROLL #	START DAY/ TIME	STOP DAY/ TIME	EQUIPMENT
001	109/0800	115/1807	3.5 kHz Profiles
002	115/1812	120/1349	3.5 kHz Profiles
003	120/1322	124/1315	3.5 kHz Profiles
001	109/0930	112/0025	12 kHz Bathymetry
002	112/0323	114/1300	12 kHz Bathymetry
003	114/1330	115/1840	12 kHz Bathymetry
001	245/0307	246/1840	10 kJ Sparker Profile

SIDESCAN RECORD INVENTORY 87-300

RECORD #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC AREA
001	042/1437	042/1503	
002	051/1417	051/1626	
003	100/1145	100/1225	
004	100/1436	100/1445	
005	196/1317	196/1419	
006	198/1256	198/1310	

BATHYMETRY RECORD INVENTORY 87-300

RECORD #	START DAY/ TIME	STOP DAY/ TIME	TYPE	GEOGRAPHIC AREA
001	051/1417	051/1626	30 kHz	Mouth of Halifax Harbour
002	196/1317	196/1419		Mouth of Halifax Harbour
003	198/1256	198/1310		Mouth of Halifax Harbour
001	256/1126	256/1428	Bubble Pulser	Mouth of Halifax Harbour

SIDESCAN RECORD INVENTORY 87-300

RECORD #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC AREA
001	042/1437	042/1503	
002	051/1417	051/1626	
003	100/1145	100/1225	
004	100/1436	100/1445	
005	196/1317	196/1419	
006	198/1256	198/1310	

BATHYMETRY RECORD INVENTORY 87-300

RECORD #	START DAY/ TIME	STOP DAY/ TIME	TYPE	GEOGRAPHIC AREA
001	051/1417	051/1626	30 kHz	Mouth of Halifax Harbour
002	196/1317	196/1419		Mouth of Halifax Harbour
003	198/1256	198/1310		Mouth of Halifax Harbour
001	256/1126	256/1428	Bubble Pulser	Mouth of Halifax Harbour

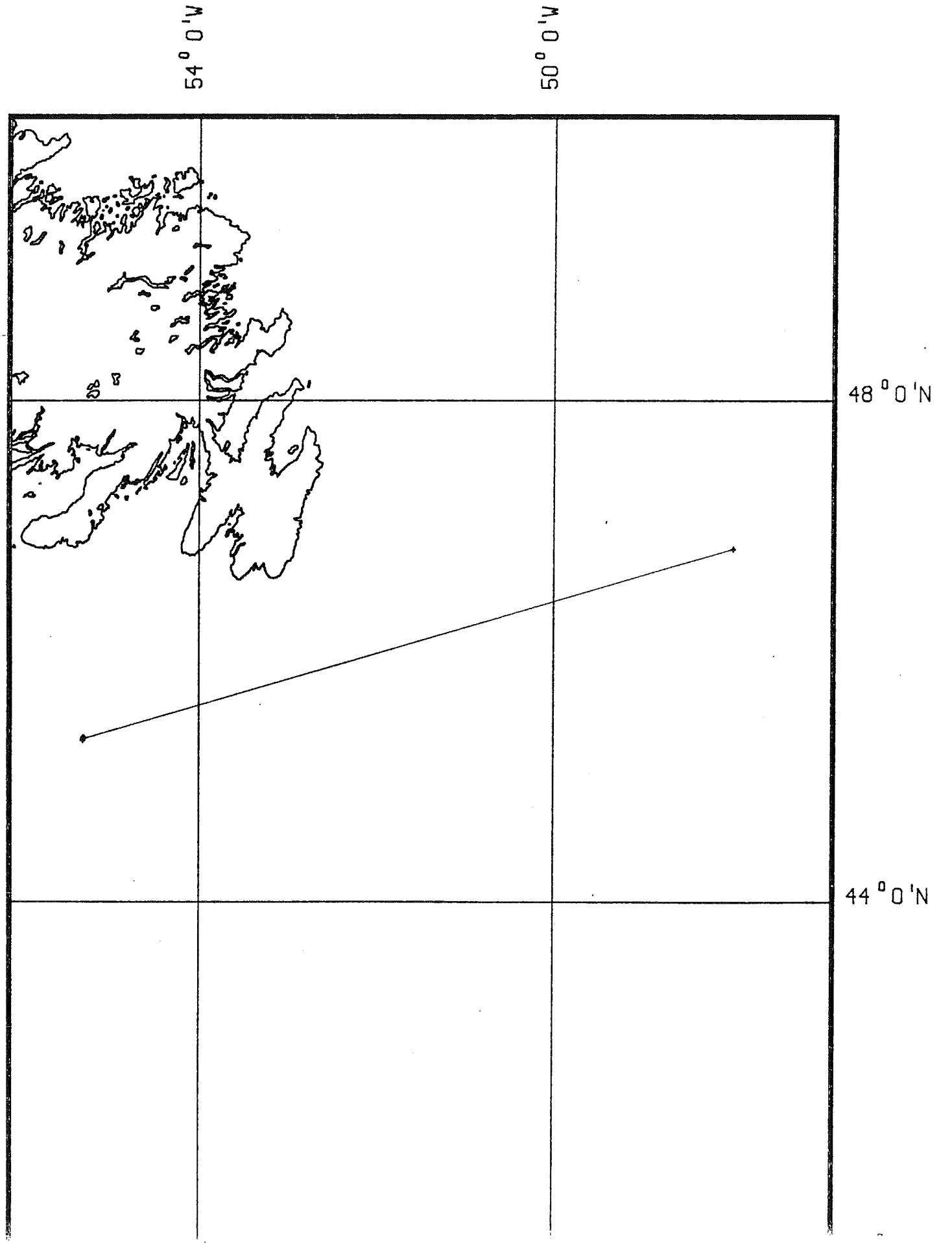
SIDESCAN RECORD INVENTORY 87-300

RECORD #	START DAY/ TIME	STOP DAY/ TIME	GEOGRAPHIC AREA
001	042/1437	042/1503	
002	051/1417	051/1626	
003	100/1145	100/1225	
004	100/1436	100/1445	
005	196/1317	196/1419	
006	198/1256	198/1310	

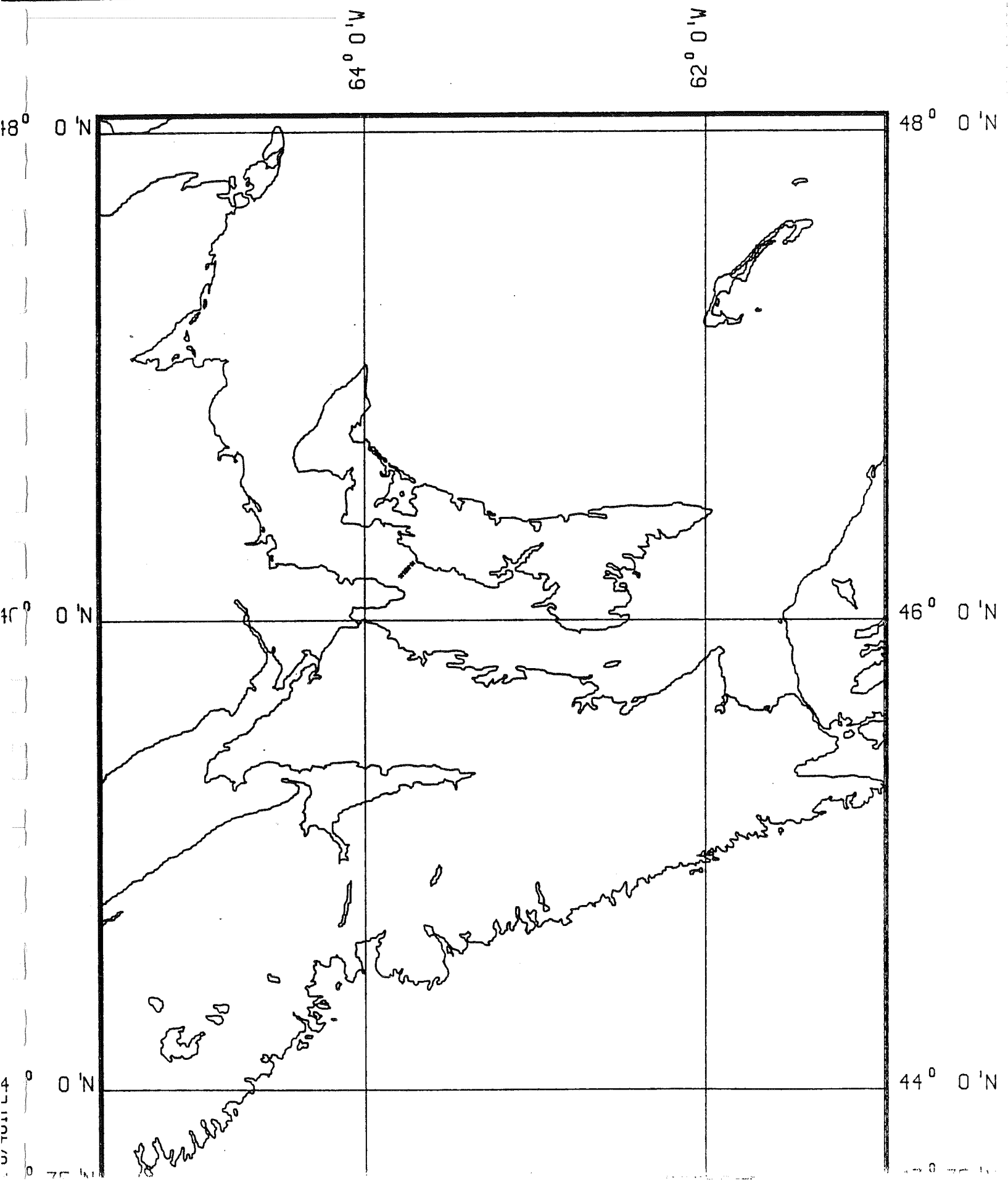
BATHYMETRY RECORD INVENTORY 87-300

RECORD #	START DAY/ TIME	STOP DAY/ TIME	TYPE	GEOGRAPHIC AREA
001	051/1417	051/1626	30 kHz	Mouth of Halifax Harbour
002	196/1317	196/1419		Mouth of Halifax Harbour
003	198/1256	198/1310		Mouth of Halifax Harbour
001	256/1126	256/1428	Bubble Pulser	Mouth of Halifax Harbour

SAMPLE LOCATIONS - 87400.
_:4050000 (MERCATOR, 50N).



SAMPLE LOCATIONS - 87401.
1:2100000 (MERCATOR, 48N).

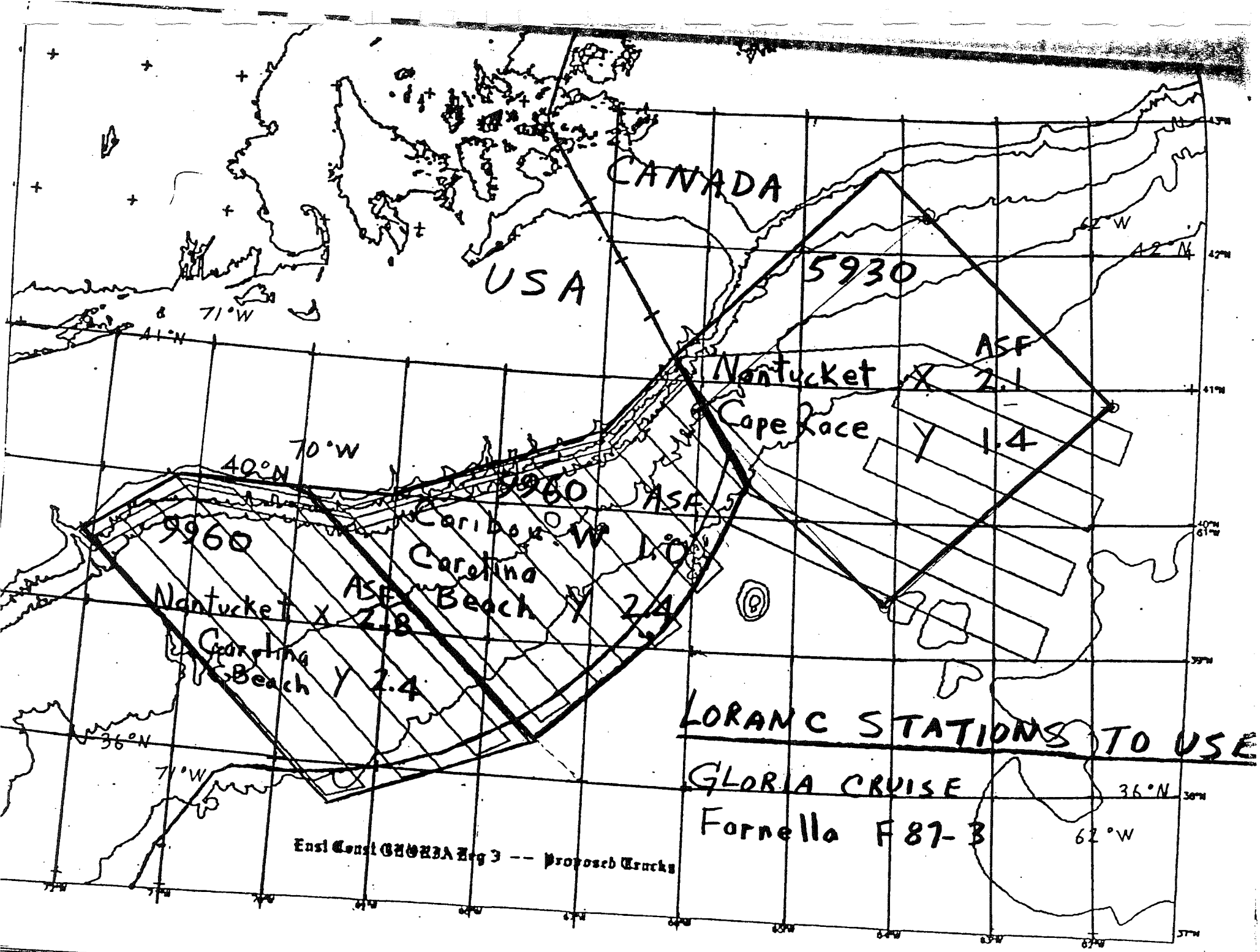


ECHOSOUNDER
RECORD 87-400/401

CRUISE #	START DAY/ TIME	STOP DAY/ TIME
87-400	239/0900	240/1212
87-401	243/0700	249/0222

3.5 kHz SEISMIC RECORDS 87 - ELLICE ICE

LINE #	LATITUDE		LONGITUDE	
	Start of Line	End of Line	Start of Line	End of Line
1	69°4.62'	69°13.29'	135°57.85'	136°1.08'
2	69°4.02'	69°4.18'	136°9.28'	135°56.05'
3	69°10.12'	69°4.17'	135°59.50'	136°58.44'
4	69°13.49'	69°10.15'	136°2.22'	135°59.45'


CANADA
USA
5930
Nantucket X 2.1
Cape Race Y 1.4
ASF
9960
Carolina Beach Y 2.4
Nantucket X 2.8
9960
Carolina Beach Y 2.4
ASF
LORAN C STATIONS TO USE
GLORIA CRUISE
Fornella F87-3
East Coast GLORIA Leg 3 -- Proposed Tracks
71°W
70°W
40°N
36°N
62°W

LOGS & XBT DATA 87-FARNELLA

RECORD #	NOTES
1	Binder with the following logs: Sea Surface Temperature (entire cruise) Fish Temperature (JD 091 to end) Bathymetry log (JD 093 - 101) Seismic log (JD 093 - 101) GLORIA Watchstanders log (JD 093 - 101)
2	GLORIA Mosaic spares XBT Profiles

MAGNETICS RECORDS 87-FARNELLA

RECORD #	START DAY/ TIME	STOP DAY/ TIME	LINE #
1	093/0500	094/0600	C1 - C3
2	094/0600	096/0940	C3 - C6A
3	096/0954	098/0900	C7 - C9
4	098/0907	100/1000	C9 - C12
5	100/1007	101/0011	C13

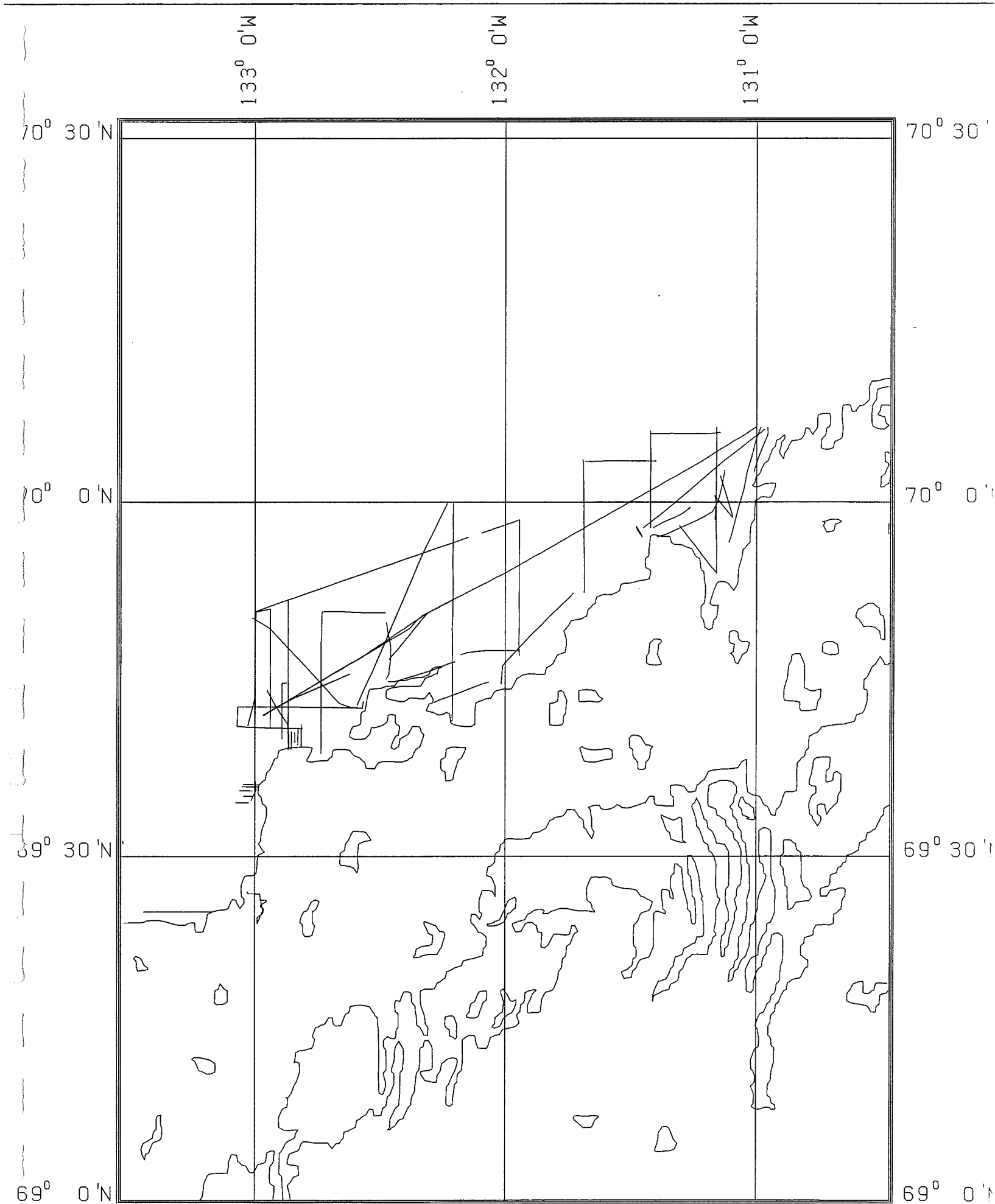
BATHYMETRY RECORDS 87-FARNELLA

RECORD #	START DAY/ TIME	STOP DAY/ TIME	TYPE
1	093/0536	095/0242	3.5 kHz
2	095/0242	096/0936	3.5 kHz
3	096/0942	097/1800	3.5 kHz
4	097/1835	100/0428	3.5 kHz
5	100/0435	101/0007	3.5 kHz
1	093/0454	093/1418	10 kHz
2	093/1436	095/1800	10 kHz
3	095/1806	098/0112	10 kHz
4	098/0124	098/1641	10 kHz
5	098/1642	100/0806	10 kHz
6	100/0818	101/0007	10 kHz
1	093/0500	101/0100	GLORIA - Raw Record

SEISMIC REFLECTION RECORDS 87-FARNELLA

RECORD #	START DAY/ TIME	STOP DAY/ TIME
1	093/0500	093/0532
2	093/0600	095/0247
3	095/0255	096/0704
4	096/0800	096/2230
5	096/2300	099/1158
6	099/1200	101/0007
7	093/0500	094/2200
8	094/2214	097/0000
9	097/0230	101/0000

87 KARLUK
1-720000 AT 70N

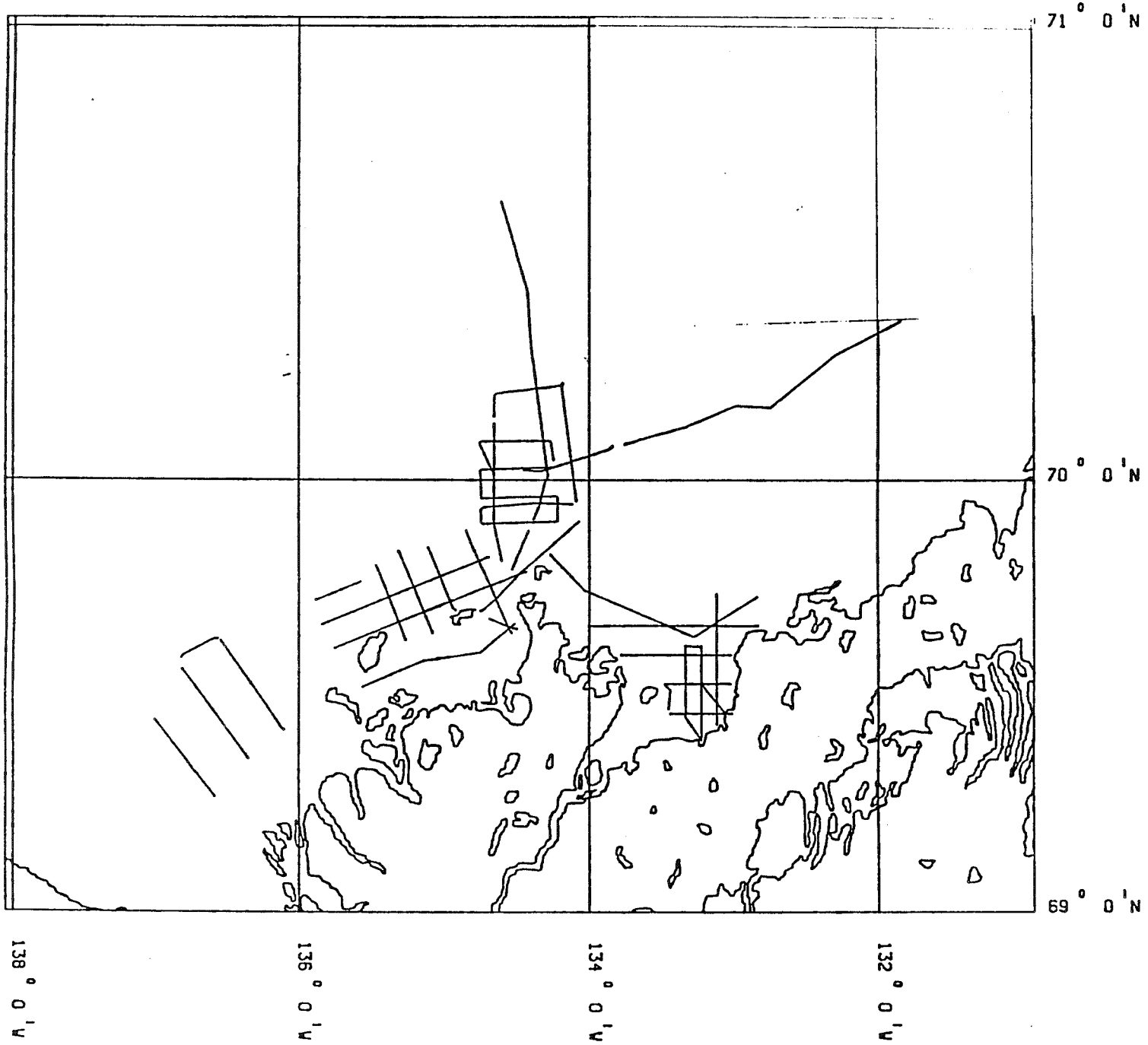


LINE INVENTORY 87-KARLUK

LINE #	START DAY/ TIME	STOP DAY/ TIME	ROLL		
			7 & 200 kHz	Seismic	SSS
1	241/0940	241/1135	1/2	1	1
2	241/1412	241/1620	2/3	1	-
3	244/0829	244/0844	4	1	1
4	244/0941	244/1131	4	1	2
5	244/1245	244/1555	5/6	2	2
6	244/1610	244/1720	6	2	2
7	244/1726	244/1910	6	2	2/3
8	244/1914	244/2050	6/7	2	3
9	245/0829	245/1154	7/8	3	4
10	245/1202	245/1638	8, 9/10	3	4/5
11	246/0844	246/0922	10	-	-
12	246/0948	246/1304	11	4	6
13	246/1312	246/2001	12, 13/14	4/5	6/7
14	246/2017	246/2200	14/15	-	-
15	247/0926	247/0938	15	-	-
16	247/0940	247/0952	15	-	-
17	247/0959	247/1009	15	-	-
18	247/1012	247/1027	15	-	-
19	247/1039	247/1200	15/16	5	8
20	247/1202	247/1313	16	5	8
21	247/1323	247/1612	16/17	5	8
22	247/1647	247/1926	18	5/6	9
23	249/0930	249/0943	19	-	-
24	249/1016	249/1030	19	-	-
25	249/1125	249/1354	19/20	6	9/10
26	249/1413	249/1507	20	-	-
27	250/0807	250/0841	21	-	-
28	250/0900	250/1627	21, 22/23	7, 8/9	11/12
29	250/1631	250/1723	23/24	9	12

LINE INVENTORY 87-KARLUK (CONTINUED)

LINE #	START DAY/ TIME	STOP DAY/ TIME	ROLL		
			7 & 200 kHz	Seismic	SSS
30	250/1750	250/1859	25	-	-
31	251/1010	251/1126	-	10	-
32	251/1130	251/1406	26	10	13
33	253/0739	253/0950	26	10/11	14
34	253/1019	253/1155	27	11	14
35	253/1205	253/1431	27/28	11/12	15
36	253/1436	253/1600	28	12	15
37	253/1709	253/1859	28	12	15
38	254/0943	254/1027	29	-	-
39	254/1031	254/1201	29/30	-	-
40	254/1203	254/1253	30	-	-
41	254/1254	254/1309	30	-	-
42	254/1510	254/1653	30	12	16
43	254/1659	254/1939	31	13	16
44	254/1951	254/2107	31/32	-	-
45	254/1011	255/1104	32	-	-
46	255/1418	255/1621	32/33	13	16
47	255/1650	255/1910	33/34	-	-
48	257/1236	257/1257	34	-	-
49	257/1636	257/1719	34	-	-
50	257/1720	257/1731	34	-	-
51	257/1734	257/1850	34/35	-	-
52	258/0832	258/1312	35	14	17
53	258/1330	258/1440	36	-	-
54	258/1454	258/1708	36/37	-	-
55	258/1726	258/1747	37	-	-
56	258/1759	258/1813	37	-	-
57	258/1833	258/1843	37	-	-


71 ° 0 'N
70 ° 0 'N
69 ° 0 'N
138 ° 0 'W
136 ° 0 'W
134 ° 0 'W
132 ° 0 'W
87/01/27. 10.19.56. 1500000.00 70.00 0.00

HUNTEC SIDESCAN RECORDS
86-NAHIDIK

TAPE #	START DAY/ TIME	STOP DAY/ TIME
001	248/1143	248/1341
002	248/1401	248/
003	248/	248/
004	249/1215	249/1500
005	249/1510	249/1855
006	249/1855	250/0110
007	250/0120	250/0500
008	250/0500	250/1012
009	250/1015	250/1328
010	250/1331	250/1740
011	250/1742	251/0701
012	251/0811	251/1117
013	251/1209	251/1447
014	252/0742	252/
015	252/	252/1437
016	252/1440	252/2030
017	253/1830	253/0950
018	253/0637	?
019	253/0951	253/1306
020	253/2005	253/2300
021	253/2300	254/0730
022	254/0232	254/
023	254/	254/1526
024	254/1526	254/1947
025	254/1947	254/
026	254/	255/0037
027	255/0701	255/1028
028	255/1088	255/1418

7 kHz BATHYMETRY RECORDS
86-NAHIDIK

RECORD #	START DAY/ TIME	STOP DAY/ TIME
001	248/0150	248/2200
002	248/2201	249/1618
003	249/1619	250/0051
004	250/0055	250/0907
005	250/0908	250/1446
006	250/1546	251/0856
007	251/0901	251/1447
008	251/2149	252/0402
009	252/0742	252/1334
010	252/1337	252/2035
011	252/2038	253/0850
012	253/0858	253/2130
013	253/2131	254/0824
014	254/0825	254/1512
015	254/1517	254/2113
016	154/2118	255/0641
017	255/0643	255/1128
018	255/1154	255/1422
019	Playback record	(No Day/Time)
020	Playback record	(Line 9)

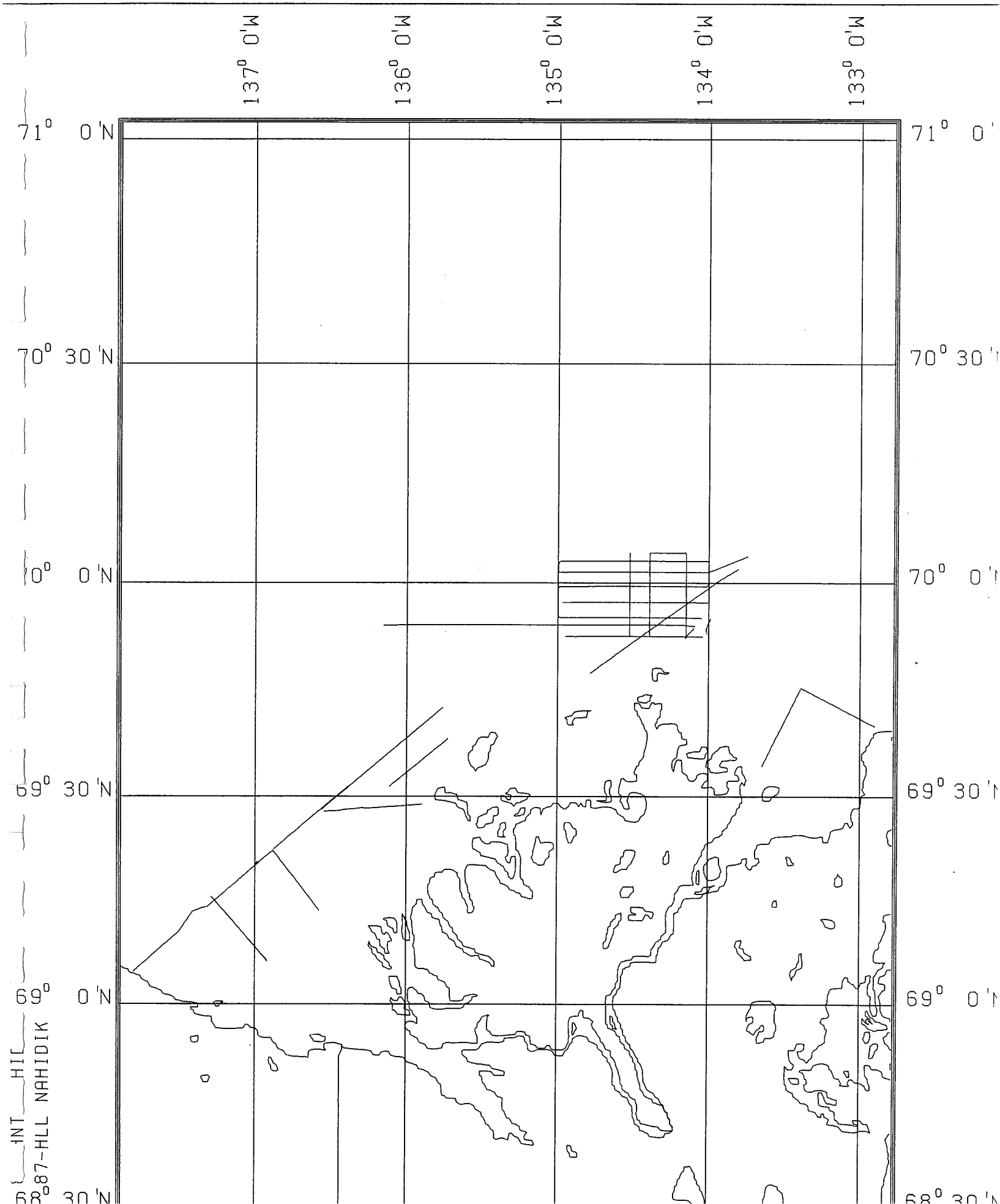
HUNTEC S.T.S. BOOMER
RECORDS 86-NAHIDIK

RECORD #	START DAY/ TIME	STOP DAY/ TIME
1	248/1143	?
2	248/	248/2305
3	248/2306	249/1556
4	249/1558	249/1932
5	249/2237	249/2321
6	249/2325	250/0532
7	250/0543	250/1150
8	250/1152	250/1710
9	250/1721	251/1014
10	251/1020	251/1447
10A	252/0742	252/1505
11	252/1151	253/0709
12	253/0714	253/1054
13	253/1058	253/2151
14	253/2156	254/0708
15	254/0049	254/1155
16	254/1325	254/1955
17	254/2002	255/0037
17A	255/0518	255/0919
18	255/0922	255/1418

SIDESCAN SONAR RECORDS 86-NAHIDIK

RECORD #	START DAY/ TIME	STOP DAY/ TIME	TYPE
1	?	?	Lines 11, 11.1, 12, 13 R460
2	249/1215	249/1606	Lines 13, 21 R460
3	?	249/2336	Lines 21, 22 R460
4	?	?/0547	Line 22 R 460
5	?	?/1427	Lines 22, 20 R460
6	?	251/0701	Lines 20, 19, 14 R460
7	?	?	Lines 15, 16 R460
8	?	?	Lines 24, 24A, 25 R461
9	?	?/1354	(with Jim Shearer - Ottawa)
10	?	?	(with Jim Shearer - Ottawa)
11	?/2344	?	Lines 3, 7, 8 R461
12	?	?	(with Jim Shearer - Ottawa)
13	254/2222	?	R461
14	?	?	Lines 10, 4.1, 4.1A, 5.1 R461
15	?	?	Lines 5.1, 5.1A, 4, TUK R461

87 NAHIDIK
1-1200000 AT 70N



LINE INVENTORY 87-NAHIDIK

LINE #	START DAY/ TIME	STOP DAY/ TIME	7 kHz	BOOM	B.P.	IKB	EEL	SIDE-SCAN
1	258/0853	258/1412	X	X	X	X	X	X
2	258/0326	258/0843	X	X	X	X	X	X
3	261/0305	261/0553	X	X	X	X	X	X
4	261/0601	261/0914	X	X	X	X	X	X
6	257/0435	257/0952	X	X	X	X	X	X
6B	259/0739	259/1027	X	X	X	X	X	X
6C	259/2102	260/0052	X	X	X	X	X	X
6D	260/0158	260/0541	X	X	X	X	X	X
7	257/0058	257/0325	X	X	X	X	X	X
9	256/0355	256/0539	X	X	X	X	X	X
9A	259/1102	259/1334	X	X	X	X	X	X
10	259/0509	259/0738	X	X	X	X	X	X
14	257/1011	257/1345	X	X	X	X	X	X

TAPE LOG 87-NAHIDIK

TAPE #	START DAY/ TIME	START DAY/ TIME	LINE #
46	256/0355	257/0539	9
47	257/0058	257/0236	7
48	257/0237	257/0325	7
48	257/0435	257/0997	6
49	257/0524	257/0700	6
50	257/0701	257/0837	6
51	257/0838	257/0952	6
51	257/1011	257/1035	14
52	257/1036	257/1211	14
53	257/1213	257/1345	14
54	258/0326	258/0501	2
55	258/0502	258/0637	2
56	258/0638	258/0816	2
57	258/0817	258/0843	2
57	258/0853	258/1137	1
58	258/1139	258/1412	1
58	259/0509	259/0546	10
59	259/0547	259/0722	10
60	259/0723	259/0738	10
60	259/0739	259/0858	6B
61	259/0859	259/1027	6B
62	259/1102	259/1237	9
63	259/1238	259/1334	9
63	259/2102	259/2130	6C
64	259/2132	259/2306	6C
65	259/2307	260/0044	6C
66	260/0045	260/0052	6C
66	260/0158	260/0325	6D
67	260/0326	260/0503	6D
68	260/0503	260/0541	6D

TAPE LOG 87-NAHIDIK (CONTINUED)

TAPE #	START DAY/ TIME	START DAY/ TIME	LINE #
68	261/0305	261/0359	3
69	/261/0400	261/0536	3
70	261/0537	261/0553	3
70	261/0601	261/0720	4
71	261/0722	261/0858	4
72	261/0859	261/0914	4