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Marine Environmental Data Service Report for 2001

by

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Abstract

MEDS, as the Regional Environmental Data Center for NAFO, is required to provide an annual inventory of environmental data collected in the NAFO area to the NAFO subcommittee for the environment (STACFEN). Inventories and maps of physical oceanographic observations such as ocean profiles, surface thermosalinographs, drifting buoys, currents, waves, tides and water level measurements for the calendar year 2001 are included. The report also describes other recent activities at MEDS of possible interest to NAFO.:

- The Argo data system
- The Pilot Project on Surface Salinity
- The Atlantic Zone Monitoring Program

It is important for STACFEN to encourage members to send data and information to the designated data center in order to get significant return for NAFO member countries.

Introduction

MEDS has been recognized since 1975 as the Regional Environmental Data Center for ICNAF and subsequently for NAFO. In order for MEDS to carry out its responsibility of reporting to the Scientific Council, the Designated National Representatives selected by STACFEN are requested to provide MEDS with all marine environmental data collected in the Northwest Atlantic for the preceding years.

Provision of a meaningful report to the Council for its meeting in June 2002 required the submission to MEDS of a completed oceanographic inventory form for data collected in 2001, and oceanographic data pertinent to the NAFO area, for all stations occupied in the year prior to 2001. The data of highest priority are those from the standard sections and stations, as described in NAFO SCR DOC., No. 1, Serial N 1432, 9p.

Data that have been formatted and archived at MEDS are available to all members on request. Requests can be made by telephone (613) 990-0243; by internet e-mail to mailto:services@meds-sdmm.dfo-mpo.gc.ca , by completing an on-line order form on the MEDS web site http://www.meds-sdmm.dfo-mpo.gc.ca , or by writing to Services, Marine Environmental Data Service (MEDS), Dept. of Fisheries and Oceans, 12th Floor, 200 Kent St., Ottawa, Ont. Canada K1A 0E6.

Recent Activities

The Argo data system

Argo is an international program to deploy profiling floats on a 3 by 3 degree grid in the oceans of the world. Each profiling float samples and reports both temperature and salinity from 2000 m to the surface every 10 days. Data is distributed both on the Global Telecommunications System (GTS) and from two Internet servers within 24 hours of the float reaching the surface. MEDS role is to carry out the processing of the data received from Canadian floats, to

distribute the data on the GTS, to contribute the data to the Argo servers and to handle the delayed mode processing as well.

MEDS has developed a Canadian web site http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Prog_Int/argo/ArgoHome_e.html that contains information about Canadian floats as well as some general information and statistics about the global array. General information is also available from the Argo Information Centre in Toulouse.

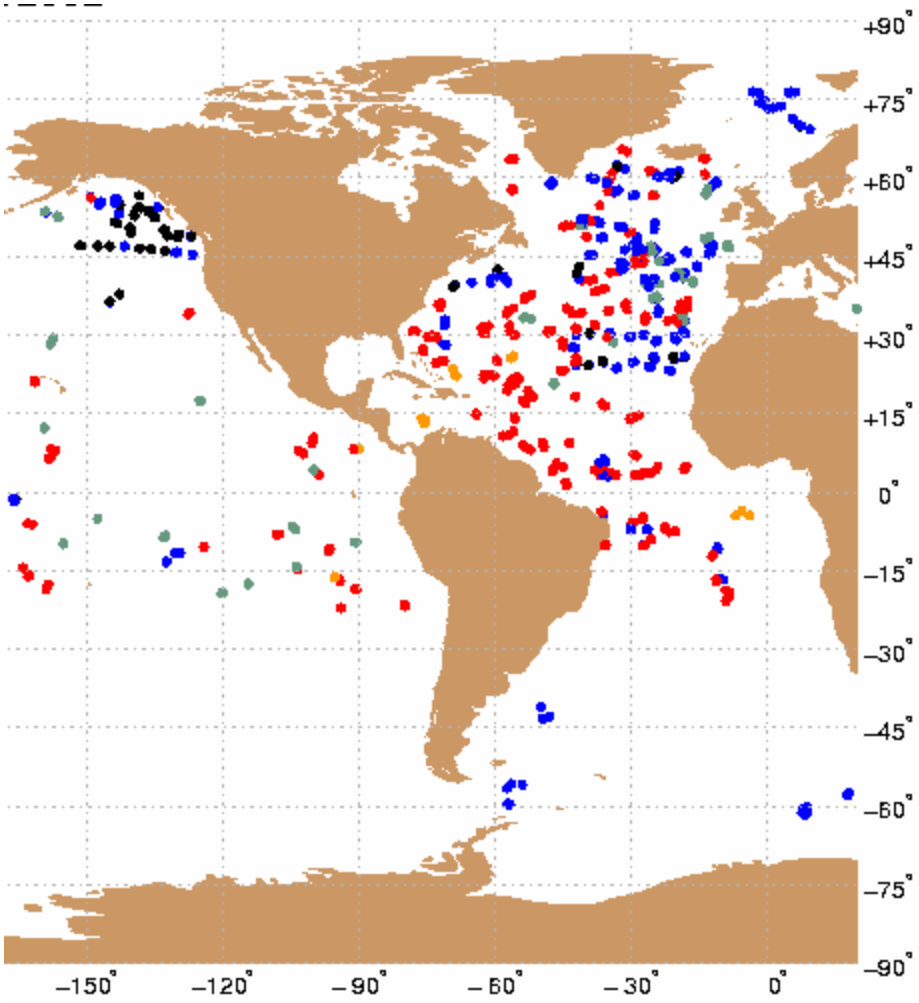


Fig. 1. Argo profiling floats in April 2002.

The Pilot Project on Surface Salinity

The IODE Steering Group for Underway Sea Surface Salinity Data Archiving Pilot Project was established during IODE-XVI. The objective of the project is to organize surface salinity data that are currently collected and to work with data collectors to improve data collection to meet the benchmarks of spatial and temporal sampling and data accuracy set out by the Ocean Observations Panel for Climate (OOPC).

The first meeting of interested participants took place in Brest in November of 2001 (see http://ioc.unesco.org/iode and go to the meeting report under the document library). Catherine Maillard of IFREMER and Bob Keeley of MEDS co-chaired the meeting. Representatives from Canada, France, Greece, ICES, Japan, Russia, UK, USA attended the meeting. The goals of the project are to:

- Improve data acquisition systems and provide feedback to data collectors
- Build comprehensive archives for surface salinity data. This will include data collected by any instrumentation at any time.
- Refine and standardize quality control procedures
- Provide data and information to users in a timely way

The second meeting is to be held in Ottawa 16-17 September 2002. Contact Bob Keeley at MEDS for details.

Atlantic Zone Monitoring Programme (AZMP)

The DFO Atlantic Zone Monitoring Programme activities include regular sampling for 6 fixed stations and 13 standard sections, and research cruises in the AZMP area to collect other physical, chemical and biological data. As part of MEDS' activities in the data management team, MEDS continues to build and maintain the AZMP web site : http://www.meds-sdmm.dfo-mpo.gc.ca/zmp/main_zmp_e.html

Physical and chemical data from 1999 to the present are currently available on the web site. Climate indices have also been added to show long term trends of physical variables. Water level data for 9 gauges ranging from 1895 to present are also available. Biological data are stored in a nationally distributed database (BIOCHEM) that is presently being developed at BIO. Graphical representations of biological data (phytoplankton) however are currently being displayed on the web site. The Sir Alister Hardy Foundation for Ocean Science (SAHFOS) is an international charity that operates the Continuous Plankton Recorder (CPR) survey. The CPR data for the AZMP area is presently made available from the MEDS web site.

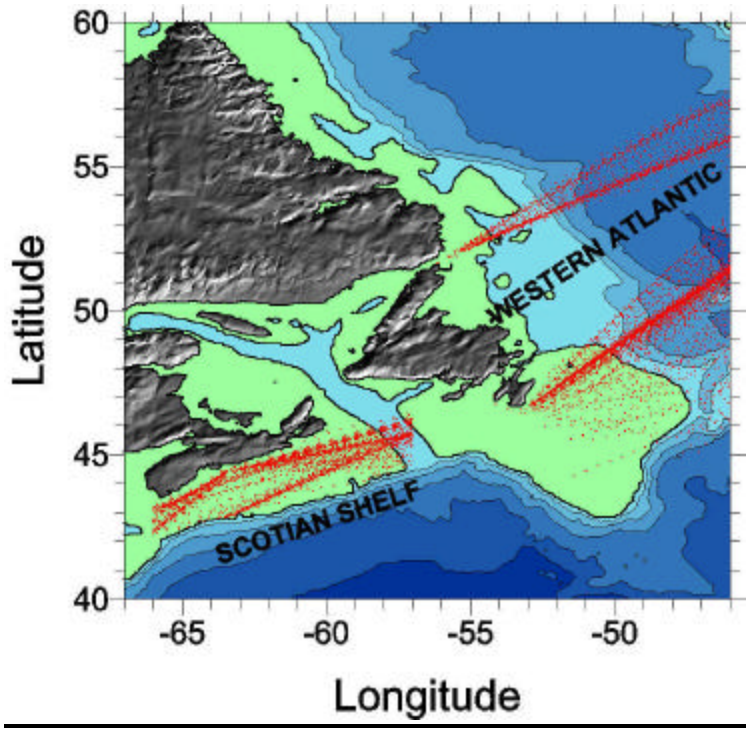


Fig. 2. CPR transects from the AZMP web site.

Data Summaries for 2001

Subsurface profile data

For the NAFO area, subsurface vertical profiles as well as surface observations sample a variety of parameters such as temperature, salinity, oxygen, nutrients and other chemicals and biological variables. MEDS receives these data either in real-time (within one month of observation) via the Global Telecommunications System (GTS) reporting system or in delayed-mode directly from responsible institutions, and indirectly from national Cruise Summary Reports and other reports of marine activities.

The following inventories and corresponding maps summarize the ocean subsurface and surface date processing activities in 2001 for the NAFO area:

- **Table 1 Real-time temperature-salinity profile data collected and processed in 2001 4998 profiles**
- **Table 2 Surface Thermosalinograph data collected and processed in 2001 28130 stations**
- **Table 3 Delayed-mode profile data collected and processed in 2001 8202 profiles**
- **Table 4a Profile data collected in 2001 but not yet received at MEDS**
- **Table 4b Profile data collected in 2001, received at MEDS but not yet processed**
- **Table 4c Profile data collected prior to 2001 and processed during the past year 18006 profiles**

The only datasets collected prior to 2001 received but not yet processed at MEDS are 69 time series stations from St. Andrews Biological Station – 1995 to 2000.

Ocean subsurface data is processed at MEDS in much the same way for each of the data sets described above. Electronic files are converted from a wide range of formats, into a common format. Quality control is carried out by a combination of specially designed software and trained personnel. The quality control has four main functions. The first is to check and ensure that each data message is properly formatted, units are standardized, and parameter range checks are performed. The second is to identify any duplication, and select the best version based on data type, source of the data, and general qualities in analysis and reporting of the observations. The third check identifies and corrects date/time and geographical positioning errors using computer tests and visual inspection of the track for each cruise. The final quality control procedure uses a series of algorithms to find and flag common instrument failures found in profiles of subsurface measurements. Each subsurface profile of temperature, salinity and other subsurface variable, is also visually inspected using software to plot the data and allow a technician to set quality flags to individual points on a profile.

Drifting Buoy Data

The following inventory and map summarize MEDS drifting buoy data collected and processed in 2001 for the NAFO area:

- **Table 5 Drifting Buoys in the NAFO Area in 2001. TOTAL = 6272 messages**

Drifting buoy data are received at MEDS via the GTS. Quality control techniques are much the same as those for the ocean profile data. Drifting buoys report via satellite, at rates of up to every 15 minutes. These messages are checked for format errors, and reformatted for quality control procedures and subsequent archival. Range checks, flags and possible corrections to the data are carried out by trained personnel, using a system of MEDS software, which organize, analyze and display plots of the data. Quality checks use algorithms which check drifting speed and position, and ranges of sea surface temperatures and sea level pressure. The range checks include a comparison to NOAA's Ashville SST Climatology (2.5x2.5 degrees and monthly). Duplicates are checked, which is important for discriminating between data received directly from buoys and messages routed through other data centers. Lower quality data (which are this type of duplicate) are flagged as such.

MEDS, as the RNODC for drifting buoy data, has holdings of over 13 million unique drifting buoys records for the world's oceans, from 1978 to present, and growing at a rate of more than one million messages per year. A drifting

buoy message is comprised of the buoy position and one or more of the following parameters: surface and subsurface water temperature, air pressure and temperature, wind speed and direction.

Current Meter Data

The following inventory summarize current meter data collections in 2001 for the NAFO area:

- **Table 6a Current meter data recovered in the NAFO Area in 2001**
- **Table 6b Current meters deployed in the NAFO Area in 2001**

Current meters have been deployed in the NAFO area for many years. These data are processed and archived at The Bedford Institute of Oceanography (BIO), Dartmouth, Nova Scotia and are available via the WWW: http://www.maritimes.dfo.ca/science/ocean/welcome.html

Wave Data

The following inventory and map summarize MEDS wave data collected and processed in 2001 for the NAFO area:

- **Table 7 Wave Buoys in the NAFO Area in 2001 TOTAL = 15 Stations**

MEDS continued to process and archive operational surface wave data on a daily basis around Canada. One-dimensional and directional wave spectra, calculated variables such as the significant wave height and peak period, concurrent wind observations if reported, and the raw digital time series of water surface elevations are stored. The data are quality controlled with a visual inspection and with MEDS software to set flags on data showing instrument failures.

All real-time and historical wave data are now made available on-line from MEDS web site:
http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/WAVE/WAVE_e.htm

Tide and Water level Data

The following inventory and map summarize MEDS tide and water level data collected and processed in 2001 for the NAFO area:

- **Table 8 Tide and water level data in the NAFO Area in 2001 TOTAL = 46 Stations**

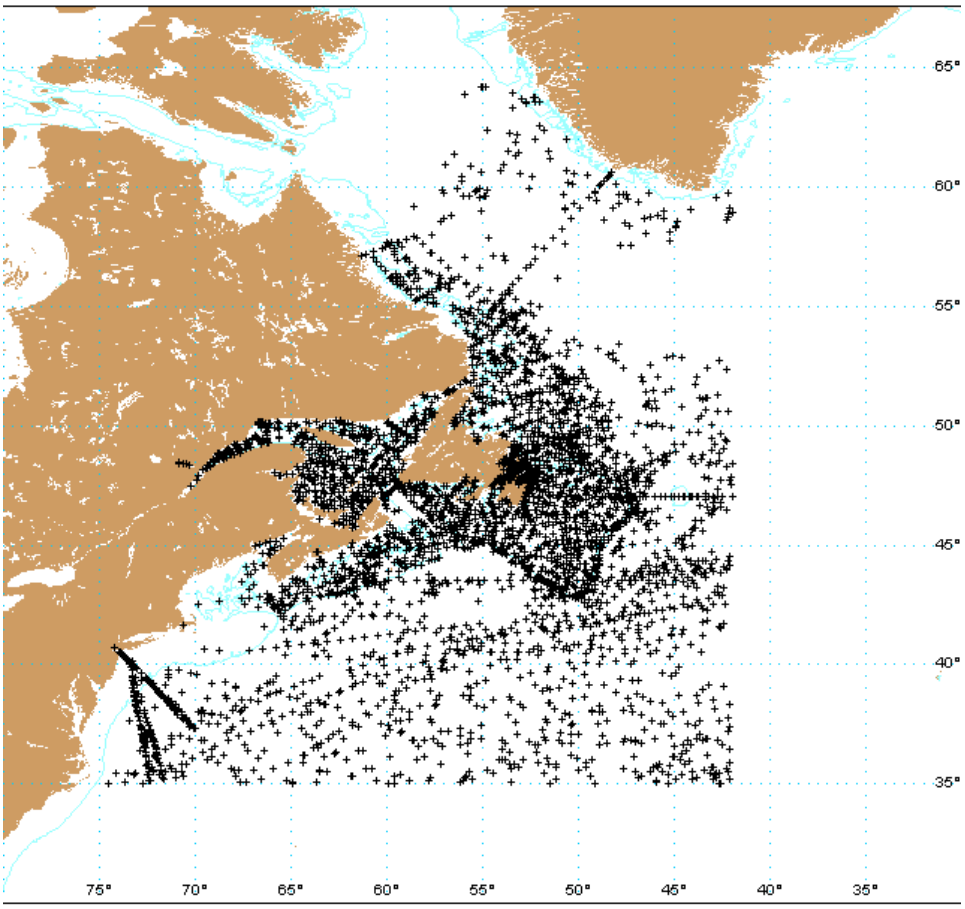
MEDS continued to process and archive operational tides and water level data that are reported on a daily to monthly basis from the Canadian water level network. MEDS archives observed 15-minute heights, hourly heights and monthly instantaneous extremes collected around Canada. Approximately 70,000 new readings are updated every month from the network. The historical tides and water level data archives presently hold over 30 million records with the earliest dating back before the turn of the century. These data are quality controlled using MEDS software.

Tide and water level data are available from MEDS web site:
http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL_e.htm

References

List of NAFO Standard Oceanographic Sections and Stations. The reprint of NAFO SCR DOC., NO. 1, Serial N1432, 9p. Printed and distributed by: NAFO, P.O. Box 638, Dartmouth, Nova Scotia, Canada B2Y 3Y9.

Table 1 Real-time temperature-salinity profile data collected and processed in 2001.



TOTAL = 4998 profiles

Platform Name	Country	Start		End	Bathy	Tesac	NAFO Sub-area
BUOY	USA	3-Jul	-	3-Jul	0	1	5ZW
		3-Jul	-	3-Jul	0	1	5ZW
UNKNOWN	PANAMA	5-Oct	-	5-Oct	1	0	6H
		11-Nov	-	11-Nov	1	0	6H
TMM MEXICO	PANAMA	12-Dec	-	13-Dec	3	0	6B,6C
P-ALACE	USA	9-Jan	-	9-Jan	0	1	4VS
		20-Jan	-	20-Jan	0	1	6G
		31-Jan	-	10-Feb	0	2	6H
		21-Feb	-	21-Feb	0	1	3N
		4-Mar	-	6-May	0	7	6H
		1-May	-	22-May	0	3	6F
		2-Jun	-	27-Sep	0	12	4VS
		7-Oct	-	29-Oct	0	2	3N
		29-Oct	-	8-Nov	0	2	6H
		19-Nov	-	31-Dec	0	5	6G
		1-Jan	-	1-Jan	0	1	4X
		12-Jan	-	12-Jan	0	1	4W
		22-Jan	-	22-Jan	0	1	4X
		2-Feb	-	2-Feb	0	1	4VS
		13-Feb	-	23-Feb	0	2	6F
		6-Mar	-	6-Mar	0	1	4W
		17-Mar	-	27-Mar	0	2	4VS

7-Apr	-	7-Apr	0	1	6F
17-Apr	-	9-May	0	3	4VS
19-May	-	19-May	0	5	6G
26-Oct	-	28-Dec	0	7	6H
5-Mar	-	25-Nov	0	4	6D
6-Dec	-	6-Dec	0	1	6E
27-Dec	-	27-Dec	0	1	6D
2-Jan	-	14-Feb	0	5	4W
24-Feb	-	17-Mar	0	3	4VS
28-Mar	-	8-Apr	0	2	6H
18-Apr	-	18-Apr	0	1	3M
29-Apr	-	29-Apr	0	1	3N
10-May	-	10-May	0	1	3M
8-Jan	-	19-Jan	0	2	6F
14-Apr	-	27-May	0	3	6G
6-Jun	-	27-Jun	0	2	6H
30-Aug	-	1-Oct	0	4	6G
23-Nov	-	23-Nov	0	1	6F
14-Dec	-	25-Dec	0	2	6G
1-Jan	-	22-Jan	0	3	6F
13-Feb	-	13-Feb	0	1	6E
22-Feb	-	23-Feb	0	2	6E,6F
6-Mar	-	7-Apr	0	4	6E
17-Apr	-	17-Apr	0	1	4VS
28-Apr	-	28-Apr	0	1	6F
8-May	-	8-May	0	1	4VS
19-May	-	19-May	0	1	4VS
30-May	-	1-Aug	0	7	3N
12-Aug	-	12-Aug	0	1	3M
2-Jan	-	24-Jan	0	3	6F
4-Feb	-	4-Feb	0	1	6G
14-Feb	-	14-Feb	0	1	4VS
25-Feb	-	25-Feb	0	1	6G
8-Mar	-	8-Mar	0	1	6H
19-Mar	-	19-Mar	0	1	3N
29-Mar	-	2-Jun	0	6	3O
13-Jun	-	26-Jul	0	5	4VS
5-Aug	-	30-Oct	0	9	6G
6-Jan	-	1-Apr	0	9	6E
12-Apr	-	14-May	0	4	6F
24-May	-	24-May	0	1	4VS
4-Jun	-	4-Jun	0	1	6G
15-Jun	-	15-Jun	0	1	6G
25-Jun	-	25-Jun	0	1	4VS
6-Jul	-	6-Jul	0	1	4VS
17-Jul	-	17-Jul	0	1	3N
27-Jul	-	8-Sep	0	4	6H
29-Sep	-	12-Dec	0	8	3M
23-Dec	-	13-Nov	0	22	6H
8-Jan	-	24-Apr	0	6	3M
5-May	-	8-Jul	0	7	3N
18-Jul	-	25-Dec	0	16	3M
2-Jan	-	23-Jan	0	2	4W
3-Feb	-	7-Mar	0	4	4VS
17-Mar	-	17-Mar	0	1	4W
28-Mar	-	20-May	0	6	4VS
31-May	-	31-May	0	1	6G
10-Jun	-	21-Jun	0	2	3N
1-Jul	-	1-Jul	0	1	3M
12-Jul	-	23-Jul	0	2	3N
2-Aug	-	2-Aug	0	1	3M
13-Aug	-	13-Aug	0	1	3N
24-Aug	-	24-Aug	0	1	3M
3-Sep	-	17-Nov	0	8	3N

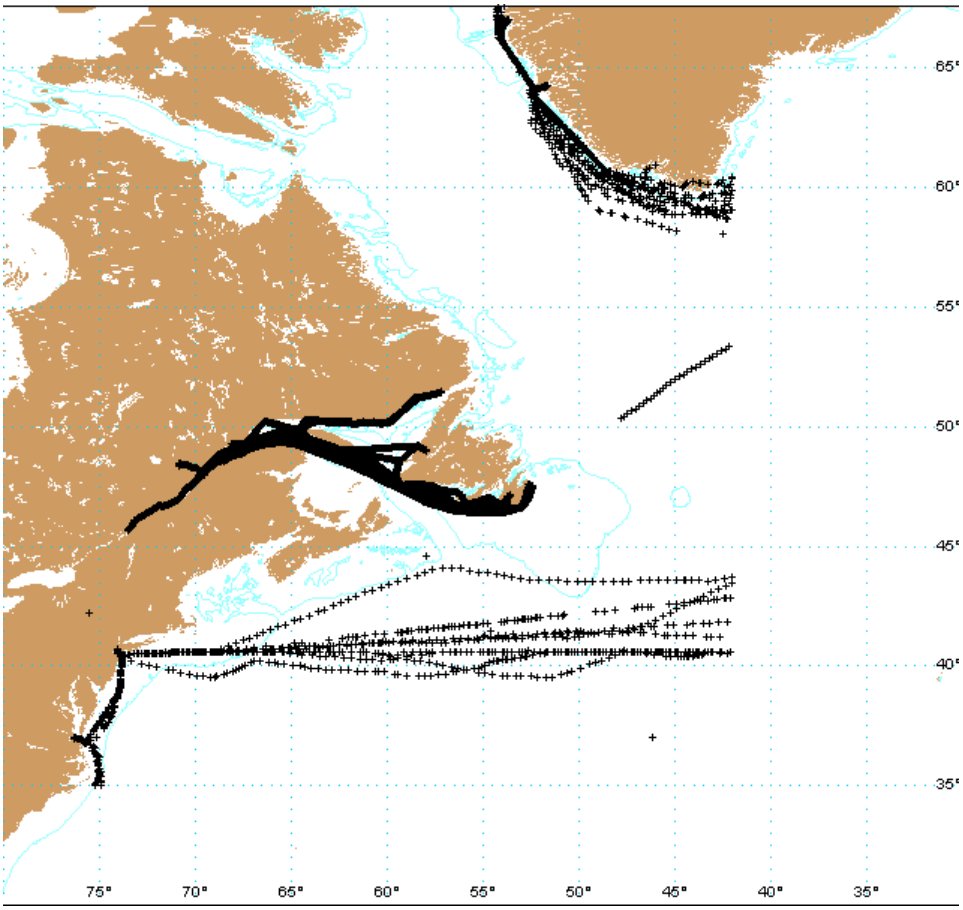
		27-Nov	-	27-Nov	0	13	3M
		8-Dec	-	24-Apr	0	1	3M
		4-Jan	-	5-Feb	0	4	2J
		15-Feb	-	23-Jun	0	13	3K
		3-Jul	-	7-Oct	0	10	2J
		2-Jan	-	23-Jan	0	3	3K
		3-Feb	-	3-Feb	0	1	3M
		14-Feb	-	14-Feb	0	1	3M
		24-Feb	-	24-Feb	0	1	3M
		7-Mar	-	20-May	0	8	3K
		31-May	-	31-May	0	1	2J
		10-Jun	-	10-Jun	0	1	1F
		21-Jun	-	21-Jun	0	1	2J
		3-Aug	-	30-Dec	0	9	6C
		18-Aug	-	24-Dec	0	11	6H
		9-Jan	-	9-Jan	0	16	3M
		20-Jan	-	12-Aug	0	1	3M
		3-Sep	-	26-Oct	0	6	3K
PROFILE FLOAT	USA	5-Jan	-	27-Feb	0	5	6E
P-ALACE	USA	6-Jan	-	24-Jan	0	3	3O
		3-Feb	-	20-Jun	0	15	4VS
		8-Jan	-	3-Apr	0	9	6D
		13-Jun	-	15-Jun	0	3	3M,3N
		8-Aug	-	8-Aug	0	1	6C
		18-Aug	-	18-Aug	0	1	6D
		17-Sep	-	17-Oct	0	3	6F
		27-Oct	-	6-Nov	0	2	4VS
		16-Nov	-	16-Nov	0	1	4VS
		26-Nov	-	16-Dec	0	3	6G
		27-Dec	-	27-Dec	0	1	3M
		15-Jun	-	15-Jun	0	1	6C
		25-Jun	-	25-Jun	0	1	6C
		15-Mar	-	13-Jan	0	4	1F
		23-Jan	-	23-Jan	0	1	2G
		2-Feb	-	22-Feb	0	3	1F
		4-Mar	-	3-Apr	0	4	2G
		13-Apr	-	13-May	0	3	2H
		2-Jun	-	2-Jun	0	1	2J
		22-Jun	-	1-Aug	0	3	3K
		21-Aug	-	21-Aug	0	1	3L
		10-Sep	-	9-Dec	0	1	3M
		29-Dec	-	29-Dec	0	1	3K
		14-Mar	-	14-Apr	0	4	1F
		24-Apr	-	1-Aug	0	6	1E
		21-Aug	-	30-Sep	0	3	2G
		20-Oct	-	20-Oct	0	1	2H
		9-Nov	-	10-Dec	0	4	2J
		20-Dec	-	30-Dec	0	2	3K
		3-Jan	-	23-Apr	0	12	1F
		13-May	-	2-Jun	0	2	1E
		22-Jun	-	29-Dec	0	13	1D
		25-May	-	25-May	0	1	1F
		14-Jun	-	24-Jul	0	3	1E
		4-Jul	-	24-Jul	0	1	1E
		13-Aug	-	31-Dec	0	8	1F
		4-Jan	-	14-Jan	0	2	3K
		24-Jan	-	3-Feb	0	2	3L
		13-Feb	-	5-Mar	0	3	3M
		15-Mar	-	25-Mar	0	2	3L
		4-Apr	-	4-Apr	0	4	3N
		14-Apr	-	24-May	0	1	3N
BUOY	USA	18-Jul	-	19-Jul	0	5	4X
P-ALACE	USA	6-Jan	-	27-Jan	0	3	6F
		17-Feb	-	10-Mar	0	3	6E

		9-Oct	-	20-Oct	0	2	6D
		30-Oct	-	10-Nov	0	2	6E
		10-Jan	-	21-Mar	0	4	2H
		31-Mar	-	10-Apr	0	2	2G
		20-Apr	-	7-Oct	0	22	1F
		26-Oct	-	5-Nov	0	2	1E
		16-Nov	-	16-Nov	0	1	1F
		26-Nov	-	26-Nov	0	1	1E
		6-Dec	-	26-Dec	0	3	1F
UNKNOWN/INCONNU	CANADA	9-Jan	-	17-Sep	0	10	3L
OPILIO	CANADA	3-May	-	16-Oct	10	1	4T
PANDALUS	CANADA	2-Jan	-	29-Nov	19	1	4X
SPRAY	CANADA	12-Dec	-	12-Dec	0	1	4T
SHIPPAGAN	CANADA	26-Apr	-	29-Nov	0	5	4T
SAMBRO	CANADA	5-Jan	-	23-Nov	0	8	4W
SHAMOOK	CANADA	16-Jan	-	31-Jan	0	19	3L
		11-Apr	-	7-May	28	3	3PS
		15-May	-	28-Jun	7	62	3L
		16-Jul	-	19-Jul	0	2	3K,3L
		27-Jul	-	3-Dec	0	65	3L
ALFRED NEEDLER	CANADA	25-Jan	-	27-Jan	0	8	4VN
		2-Feb	-	14-Mar	0	96	4VS,4W
		3-Jul	-	30-Aug	0	401	3K,3PN,4R,4S,4T,4VN,4VS,4W,4X,5Y
		4-Sep	-	5-Sep	0	8	4T
		13-Sep	-	28-Sep	0	140	4T,4VN
		24-Nov	-	17-Dec	8	117	2H,2J,3K,3L
EARL GREY	CANADA	30-Mar	-	30-Mar	0	1	4W
L'ISTORLET	CANADA	16-May	-	5-Sep	0	4	4T
BELUGA	CANADA	24-May	-	20-Sep	0	15	4T
NSC CALANUS II	CANADA	1-May	-	11-May	0	50	4S
TELEOST	CANADA	8-Jan	-	16-Jan	10	11	2J,3K,3L
		6-Apr	-	26-May	116	194	3K,3L,3M,3N,3O,3PS,3PN
		2-Jun	-	27-Jun	22	28	2J,3K,3L,3PS
		13-Jul	-	29-Jul	75	108	2G,2H,2J,3K,3L
		21-Sep	-	15-Oct	4	88	3L,3M,3N,3O
		19-Nov	-	18-Dec	7	168	2H,2J,3K,3L
MARTHA L. BLACK	CANADA	21-Feb	-	7-Apr	0	6	4S,4T
		22-Apr	-	3-May	0	34	4R,4S,4T
		23-May	-	23-May	0	2	4S,4T
		30-May	-	17-Jun	0	130	4R,4S,4T,4VN
		26-Jun	-	15-Nov	0	50	4S,4T
GEORGE R. PEARKE	S CANADA	24-Jul	-	16-Oct	0	10	4S,4T
		30-Oct	-	30-Oct	0	1	4T
HUDSON	CANADA	1-May	-	16-May	0	66	3PS,3PN,4R,4S,4T,4VN,4VS,4W,4X
		25-May	-	25-May	0	1	4W
		30-May	-	15-Jun	0	62	1F,2H,2J,3K,4R,4W,4X
		14-Oct	-	14-Oct	0	1	4X
		21-Oct	-	7-Nov	0	63	3PS,4R,4S,4T,4VN,4VS,4W,4X
		14-Nov	-	8-Dec	27	154	3K,3L,3M,3N,3O,4R,4S,4T,4VN,4W
W. TEMPLEMAN	CANADA	6-Apr	-	24-Jun	54	478	3L,3N,3O,3PS,3PN,4R
		3-Sep	-	7-Sep	3	17	3L
		23-Sep	-	13-Nov	27	189	1F,2H,3L,3N,3O
		22-Nov	-	16-Dec	9	157	3K,3L
HMCS SUMMERSIDE	CANADA	30-Jan	-	30-Jan	2	0	4X
		13-Feb	-	14-Feb	3	0	4X,5Y
		25-Mar	-	27-Mar	4	0	4X,5ZE,6A
		10-Apr	-	10-Apr	1	0	3PS
BONN EXPRESS	GERMANY	28-Jan	-	2-Feb	38	0	3M,3N,4VS,4W,4X,6C,6D
		5-Mar	-	7-Mar	26	0	3M,3N,3O,4VS,6D,6E,6F
		23-Apr	-	26-Apr	48	0	3M,3N,3O,4VS,4W,6C,6D,6E
		20-May	-	23-May	31	0	3M,3N,3O,4VS,4W,4X,5ZE
		4-Jun	-	5-Jun	8	0	3L,3M,3N
		16-Jul	-	18-Jul	23	0	3M,3N,3O,3PS,4VS,4W

		30-Aug	-	12-Oct	28	0	3M,3N
		5-Nov	-	7-Nov	31	0	3M,3N,3O,4VS,4W,4X
		20-Dec	-	20-Dec	1	0	3M
CONTSHIP LONDON	LIBERIA	21-Jan	-	21-Jan	1	0	4X
		14-Apr	-	16-Apr	2	0	3N,4X
		12-Jul	-	15-Jul	5	0	3M,3N,3O,4W
		7-Oct	-	9-Oct	7	0	3M,3O,4VS,4W,4X
SEALAND HAWAII	USA	3-Feb	-	1-Apr	5	0	6C
		14-Apr	-	18-Apr	4	0	6B,6C
		13-May	-	13-May	1	0	6C
		26-May	-	27-May	30	0	6A,6B,6C
		9-Jun	-	10-Jun	3	0	6B,6C
		7-Jul	-	7-Jul	4	0	6A,6B,6C
		21-Jul	-	21-Jul	2	0	6B,6C
		4-Aug	-	2-Sep	45	0	6A,6B,6C
		13-Sep	-	13-Sep	2	0	6B,6C
		24-Sep	-	24-Sep	2	0	6A,6B
		4-Oct	-	3-Nov	5	0	6B,6C
		29-Dec	-	30-Dec	4	0	6A,6B,6C
OLEANDER	NETHERLAN	6-Jan	-	10-Mar	50	0	6A,6B
		6-Apr	-	10-Apr	17	0	6A,6B,6D
		14-Sep	-	14-Sep	1	0	6A
		11-Oct	-	17-Oct	17	0	6A,6B,6D
		7-Dec	-	7-Dec	1	0	6A
PROFILE FLOAT	CANADA	30-Oct	-	29-Nov	0	4	4W
		9-Dec	-	19-Dec	0	2	4X
		29-Dec	-	29-Dec	0	1	4W
		9-Nov	-	29-Dec	0	6	4X
		26-Nov	-	26-Dec	0	4	3N
		11-Nov	-	31-Dec	0	6	4VS
		4-Jun	-	4-Jun	0	1	6B
		14-Jun	-	24-Jul	0	5	6D
		3-Aug	-	24-Aug	0	3	5ZE
		2-Sep	-	22-Sep	0	3	6D
		3-Oct	-	3-Oct	0	1	5ZE
		13-Oct	-	23-Oct	0	2	6D
		2-Nov	-	2-Nov	0	1	5ZE
		12-Nov	-	12-Nov	0	1	6B
		22-Nov	-	22-Dec	0	4	5ZW
		3-Jul	-	2-Aug	0	4	3O
		12-Aug	-	11-Sep	0	4	3N
		21-Sep	-	30-Dec	0	11	3O
		23-Jun	-	23-Jun	0	1	3K
		3-Jul	-	23-Jul	0	3	3M
		2-Aug	-	2-Aug	0	1	3K
		23-Jun	-	23-Jun	0	2	3M,3O
		3-Jul	-	2-Aug	0	4	3M
		12-Aug	-	30-Nov	0	13	3N
		10-Dec	-	30-Dec	0	3	3M
		19-Jun	-	29-Jul	0	5	3K
		8-Aug	-	28-Aug	0	3	3L
		17-Sep	-	27-Sep	0	2	3M
		19-Jun	-	19-Jul	0	4	3K
		29-Jul	-	8-Aug	0	2	3L
		18-Aug	-	18-Aug	0	1	3M
		7-Sep	-	7-Aug	0	7	3K
		17-Aug	-	6-Sep	0	3	3L
		6-Sep	-	6-Sep	0	1	3L
		16-Sep	-	5-Dec	0	9	3M
		25-Dec	-	7-Aug	0	6	3K
		17-Aug	-	6-Sep	0	3	3L
		16-Sep	-	5-Nov	0	5	3M
		15-Nov	-	25-Dec	0	5	3K
UNKNOWN/INCONNU	UNKNOWN/I	13-Jan	-	13-Jan	1	0	6H

		2-May	-	8-May	0	2	4T
		31-May	-	31-May	0	3	3PS
		25-Jun	-	26-Jun	0	16	3K
		12-Jul	-	13-Jul	0	7	3PS
		22-Aug	-	8-Sep	0	63	3K,4T
		14-Sep	-	14-Sep	0	1	4T
		2-Oct	-	4-Oct	0	9	3PS
		20-Jul	-	20-Jul	1	0	6H
UNKNOWN/INCONNU	MARSHALL	17-Mar	-	17-Mar	4	0	6D
ATLANTIC CLAIRE	CANADA	17-Jun	-	26-Jun	31	0	3L,3N,3O
ENDEAVOR	USA	17-Jan	-	19-Jan	9	0	5ZE,6E,6F,6H
		2-Mar	-	4-Mar	5	0	3N,4VS,4W,5ZE
		19-Apr	-	19-Apr	1	0	6B
		2-May	-	2-May	3	0	6H
		2-Jun	-	4-Jun	12	0	6D,6E,6F,6G,6H
		12-Jun	-	15-Jun	5	0	4VS,4W,6D,6H
		13-Jul	-	13-Jul	1	0	3N
		22-Jul	-	24-Jul	3	0	3N,4W,6D
		25-Aug	-	27-Aug	3	0	3N,4VS,5ZE
		3-Sep	-	5-Sep	6	0	3N,4VS,4W,6D
		7-Oct	-	8-Oct	3	0	6G,6H
		22-Nov	-	22-Nov	1	0	6D
		29-Nov	-	2-Dec	6	0	3N,4VS,4W,6B,6D
ENTERPRISE	USA	5-Feb	-	8-Feb	7	0	6D,6E,6F,6G,6H
		13-Feb	-	13-Feb	1	0	6D
		24-Mar	-	4-Apr	21	0	3M,6C,6D,6E,6F,6G,6H
		3-May	-	6-May	11	0	5ZE,5ZW,6D,6E,6F,6G,6H
		12-May	-	16-May	12	0	3M,3N,3O,4VS,4W,6C,6D,6E
		14-Jun	-	16-Jun	3	0	3M,3N,3PS
		25-Jun	-	26-Jun	2	0	3M,4VS
		19-Jul	-	19-Jul	1	0	3M
		28-Jul	-	30-Jul	4	0	3M,4VS,4W,4X
		7-Aug	-	9-Aug	4	0	6F,6G,6H
		30-Aug	-	30-Aug	3	0	6H
		8-Sep	-	9-Sep	4	0	6D,6E
		20-Sep	-	21-Sep	3	0	6F,6H
		22-Oct	-	25-Oct	5	0	6D,6G,6H
		2-Nov	-	2-Nov	1	0	6F
DELAWARE BAY	USA	30-Jan	-	2-Feb	10	0	5ZE,6D,6E,6F,6G
		29-Mar	-	31-Mar	8	0	6F,6G,6H
		5-May	-	9-May	15	0	6C,6D,6E,6F,6G,6H
		7-Jun	-	10-Jun	9	0	3M,3N,4VS,4W,4X
		18-Jun	-	19-Jun	3	0	6F,6H
		20-Jul	-	1-Aug	12	0	6C,6E,6F,6G,6H
		30-Aug	-	1-Sep	7	0	6F,6G,6H
		24-Nov	-	26-Nov	11	0	4W,4X,5ZE,6F,6G,6H

Table 2 Surface Thermosalinograph data collected and processed in 2001.



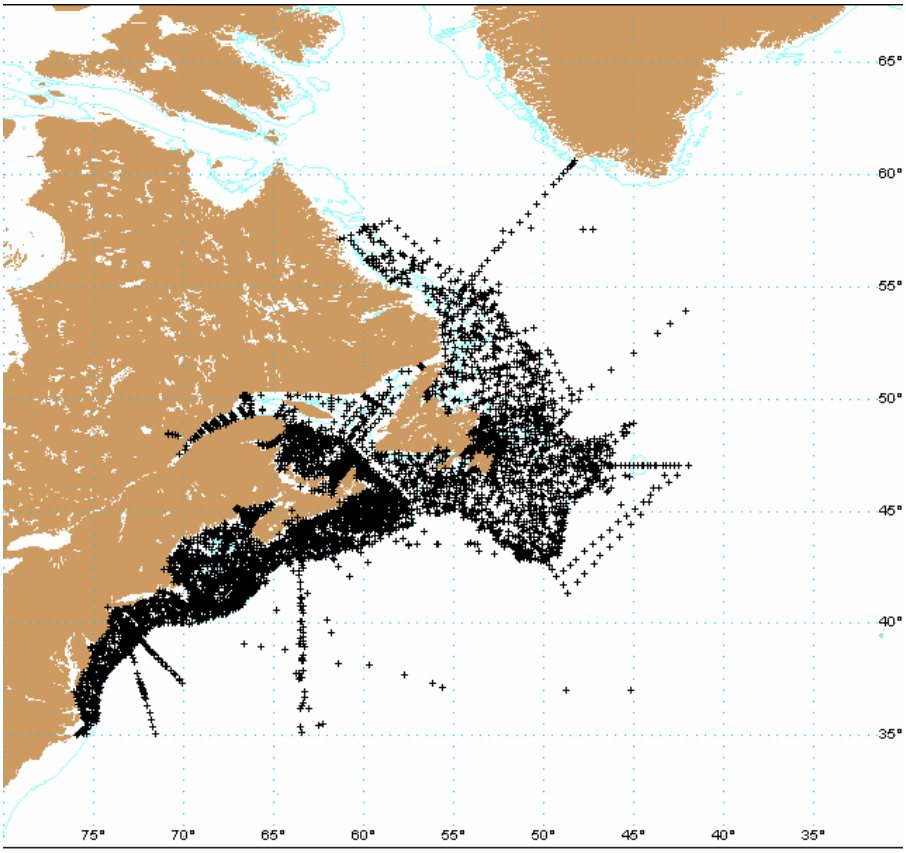
Total = 28130 stations

Unique ID	Start		End	SST/SSS	NAFO Sub-Area
18MF01200	2-Jan	-	2-Jan	24	4T
18MF01201	4-Jan	-	4-Jan	83	4T
18MF01202	5-Jan	-	5-Jan	7	4T
18MF01203	7-Jan	-	8-Jan	227	4T
18MF01204	10-Jan	-	10-Jan	34	4T
18MF01205	10-Jan	-	11-Jan	38	4T
18MF01206	11-Jan	-	12-Jan	167	4T
18MF01207	12-Jan	-	12-Jan	94	4T
18MF01208	14-Jan	-	15-Jan	39	4T
18MF01209	15-Jan	-	15-Jan	12	4T
18MF01210	17-Jan	-	17-Jan	13	4T
18MF01215	26-Jan	-	26-Jan	13	4T
18MF01217	28-Jan	-	28-Jan	12	4T
18MF01218	29-Jan	-	29-Jan	11	4T
18MF01219	29-Jan	-	29-Jan	22	4T
18MF01221	3-Feb	-	3-Feb	28	4T
18MF01222	3-Feb	-	3-Feb	14	4T
18MF01223	6-Feb	-	6-Feb	10	4T
18MF01224	8-Feb	-	8-Feb	9	4T
18MF01225	11-Feb	-	12-Feb	141	4T
18MF01226	12-Feb	-	12-Feb	133	4T
18MF01227	13-Feb	-	13-Feb	7	4T

18MF01228	13-Feb	-	13-Feb	9	4T
18MF01230	15-Feb	-	15-Feb	20	4T
18MF01231	15-Feb	-	16-Feb	77	4T
18MF01232	16-Feb	-	16-Feb	15	4T
18MF01233	17-Feb	-	17-Feb	9	4T
18MF01234	17-Feb	-	17-Feb	21	4T
18MF01235	18-Feb	-	18-Feb	34	4T
18MF01236	18-Feb	-	18-Feb	5	4T
18MF01237	19-Feb	-	19-Feb	2	4T
18MF01238	3-Mar	-	4-Mar	74	4T
18MF01239	7-Mar	-	7-Mar	61	4T
18MF01240	8-Mar	-	8-Mar	57	4T
18MF01241	11-Mar	-	11-Mar	32	4T
18MF01242	12-Mar	-	12-Mar	97	4T
18MF01244	13-Mar	-	13-Mar	83	4T
18VA00242	1-Jan	-	1-Jan	70	4T
18VA01200	2-Jan	-	5-Jan	898	4S,4T
18VA01201	5-Jan	-	7-Jan	245	3L,3PS,3PN,4T
18VA01202	6-Jan	-	8-Jan	730	4S,4T
18VA01203	7-Jan	-	9-Jan	617	3L,3PS,3PN,4R,4S,4T
18VA01204	9-Jan	-	13-Jan	933	4S,4T
18VA01205	12-Jan	-	14-Jan	603	3L,3PS,3PN,4R,4T,4VN
18VA01206	13-Jan	-	16-Jan	847	4S,4T
18VA01207	14-Jan	-	16-Jan	633	3L,3PS,3PN,4R,4S,4T,4VN
18VA01208	19-Jan	-	21-Jan	619	3L,3PS,3PN,4R,4S,4T,4VN
18VA01209	21-Jan	-	24-Jan	643	3L,3PS,3PN,4R,4S,4T
18VA01210	26-Jan	-	28-Jan	703	3L,3PS,3PN,4R,4S,4T,4VN
18VA01211	29-Jan	-	31-Jan	601	3L,3PS,3PN,4R,4S,4T,4VN
18VA01212	6-Feb	-	6-Feb	82	4T
18VA01213	9-Feb	-	11-Feb	695	3L,3PS,3PN,4R,4S,4T
18VA01214	16-Feb	-	19-Feb	925	3L,3PS,3PN,4R,4T,4VN
18VA01215	20-Feb	-	22-Feb	598	3L,3PS,3PN,4R,4S,4T,4VN
18VA01216	25-Feb	-	27-Feb	615	3L,3PS,3PN,4R,4S,4T,4VN
18VA01217	27-Feb	-	2-Mar	631	3L,3PS,3PN,4R,4S,4T,4VN
18VA01219	9-Mar	-	11-Mar	598	3L,3PS,3PN,4R,4S,4T
18VA01220	14-Mar	-	16-Mar	621	3L,3PS,3PN,4R,4S,4T,4VN
18VA01221	16-Mar	-	18-Mar	601	3L,3PS,3PN,4R,4S,4T,4VN
18VA01222	22-Mar	-	24-Mar	673	3L,3PS,3PN,4R,4S,4T,4VN
18VA01223	25-Mar	-	27-Mar	684	3L,3PS,3PN,4R,4S,4T,4VN
18VA01224	29-Mar	-	1-Apr	603	3L,3PS,3PN,4R,4T,4VN
18VA01225	1-Apr	-	4-Apr	641	3L,3PS,3PN,4R,4S,4T
18VA01226	8-Apr	-	10-Apr	615	3L,3PS,3PN,4R,4T,4VN
18VA01227	10-Apr	-	12-Apr	588	3L,3PS,3PN,4R,4S,4T,4VN
18VA01228	17-Apr	-	19-Apr	585	3L,3PS,3PN,4R,4T,4VN
18VA01229	19-Apr	-	22-Apr	699	3L,3PS,3PN,4R,4S,4T
18VA01230	29-May	-	1-Jun	938	4S,4T
18VA01231	2-Jun	-	4-Jun	751	4S,4T
18VA01232	5-Jun	-	8-Jun	936	4S,4T
18VA01233	9-Jun	-	11-Jun	778	4S,4T
18VA01234	12-Jun	-	15-Jun	939	4S,4T
18VA01239	7-Mar	-	9-Mar	616	3L,3PS,3PN,4R,4S,4T,4VN
DBBH 01	22-Jun	-	23-Jun	31	1F,2J,3K
ELVX4 01	18-Jan	-	24-Jan	49	3M,3N,3O,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
	13-Apr	-	15-Apr	26	3M,3N,3O,4VS
	13-Jul	-	18-Jul	55	3M,3N,3O,4VS,4W,5ZE,5ZW,6A,6B,6C
	7-Oct	-	10-Oct	41	3M,3N,3O,4VS,4W,4X,5ZE,5ZW
ELVZ5 01	2-Mar	-	9-Mar	119	3M,3N,3O,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
	27-Aug	-	2-Sep	117	3M,3N,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
	24-Nov	-	30-Nov	123	3M,3N,3O,4VS,4W,4X,5ZE,5ZW,6A,6B,6C,6H
ELVZ6 01	24-Mar	-	29-Mar	110	3M,3N,3O,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
	19-Jun	-	25-Jun	110	3M,3N,3O,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
	17-Sep	-	23-Sep	111	3M,3N,3O,3PS,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
	15-Dec	-	20-Dec	126	3M,3N,3O,4VS,4W,4X,5ZE,5ZW,6A,6B,6C
NOCALL 01	15-Jul	-	17-Jul	4	4W,5ZE,6A,6B

		9-Oct	-	9-Oct	1	4X
OXYH2	01	19-Apr	-	27-Apr	151	1B,1C,1D,1E,1F
		9-May	-	17-May	172	1B,1C,1D,1E,1F
		30-May	-	8-Jun	203	1B,1C,1D,1E,1F
		20-Jun	-	28-Jun	194	1B,1C,1D,1E,1F
		11-Jul	-	19-Jul	179	1B,1C,1D,1E,1F
		6-Aug	-	9-Aug	74	1C,1D,1E,1F
		22-Aug	-	31-Aug	203	1B,1C,1D,1E,1F
		14-Sep	-	21-Sep	172	1B,1C,1D,1E,1F
		3-Oct	-	9-Oct	117	1B,1C,1D,1E,1F
		24-Oct	-	1-Nov	126	1B,1C,1D,1E,1F
		15-Nov	-	22-Nov	95	1B,1C,1D,1E,1F
		6-Dec	-	12-Dec	98	1B,1C,1D,1E,1F
		28-Dec	-	31-Dec	33	1B,1C,1D,1E,1F
SHIP	01	8-Oct	-	8-Oct	1	4VS
		26-Nov	-	26-Nov	1	4W

Table 3 Delayed-mode profile data collected and processed in 2001.



Total = 8202 profiles

Unique ID	Start		End	BT	CTD	BOT	NAFO Subarea
180301600	29-Nov	-	29-Nov	0	1	0	4X
180301601	2-Jan	-	29-Nov	0	18	0	4X
180301602	2-Jan	-	29-Nov	0	19	0	4X
180301603	9-Jan	-	13-Nov	0	25	0	4X
180301615	9-Jan	-	13-Nov	0	25	0	4X

180301616	9-Jan	-	13-Nov	0	25	0	4X
180301617	9-Jan	-	13-Nov	0	24	0	4X
180301625	9-Jan	-	13-Nov	0	25	0	4X
180301651	13-Jun	-	14-Nov	0	11	0	4X
181A01002	13-Feb	-	14-Feb	3	0	0	4X,5Y
	25-Mar	-	27-Mar	4	0	0	4X,5ZE,6A
	10-Apr	-	10-Apr	1	0	0	3PS
181A01003	22-May	-	8-Jun	40	0	0	3L,3PS,4VN,4VS,4W
181A01004	26-Jun	-	26-Jun	1	0	0	4T
	5-Jul	-	11-Jul	8	0	0	4X,5Y,5ZW
	18-Jul	-	18-Jul	1	0	0	4T
181A01005	10-Oct	-	20-Oct	12	0	0	4S,4T,4W,4X
	30-Oct	-	30-Oct	2	0	0	4R,4W
	8-Nov	-	8-Nov	1	0	0	4X
	14-Nov	-	20-Nov	4	0	0	4X
	27-Nov	-	27-Nov	1	0	0	4X
	4-Dec	-	7-Dec	3	0	0	3L,4W
	12-Dec	-	12-Dec	1	0	0	4W
181C01001	6-Apr	-	18-Apr	12	93	0	3L,3PS,3PN,4R
	17-May	-	17-May	0	0	1	3L
181C01002	6-Oct	-	16-Oct	10	55	1	3L,3N,3O
181C01003	22-Apr	-	1-May	10	95	0	3O,3PS
181C01004	2-May	-	3-May	0	3	0	3L
181C01005	5-May	-	17-May	6	80	0	3L,3N,3O,3PS
181C01006	18-May	-	29-May	6	73	0	3L,3N,3O
181C01007	1-Jun	-	12-Jun	11	76	0	3L,3N
181C01008	15-Jun	-	24-Jun	8	55	0	3L,3O
181C01009	23-Sep	-	2-Oct	7	0	1	1F,2H,3L
181C01010	3-Sep	-	7-Sep	3	17	1	3L
181C01011	20-Oct	-	31-Oct	8	67	2	3L,3N
181C01012	2-Nov	-	13-Nov	2	67	1	3L,3PS
181C01013	22-Nov	-	29-Nov	3	54	1	3L
181C01014	1-Dec	-	10-Dec	4	57	1	3K,3L
181C01015	11-Dec	-	16-Dec	2	46	0	3K
189001003	21-Feb	-	3-Dec	0	31	38	4S,4T
189001006	2-May	-	20-Sep	0	21	0	4T
189901001	26-Apr	-	25-May	170	0	0	4VN,4VS,4W
	21-Jun	-	27-Jun	49	0	0	4VS,4W
	3-Jul	-	5-Jul	28	0	0	4VS
	12-Jul	-	20-Jul	100	0	0	4VS,4W,4X
	27-Jul	-	18-Aug	21	0	0	4VN,4W
	21-Sep	-	25-Sep	30	0	0	4VN
189901002	1-May	-	20-May	11	0	0	4T
	9-Aug	-	16-Aug	100	0	0	4T
	24-Aug	-	26-Aug	23	0	0	4T
	3-Sep	-	12-Sep	72	0	0	4T
	18-Sep	-	2-Oct	121	0	0	4T,4VN
189901003	17-May	-	25-May	3	0	0	4T
	1-Jun	-	1-Jun	1	0	0	4T
	8-Jun	-	8-Jun	1	0	0	4T
	15-Aug	-	26-Aug	5	0	0	4W
	31-Aug	-	31-Aug	1	0	0	4W
	7-Sep	-	18-Sep	6	0	0	4W
189901600	11-Dec	-	11-Dec	0	5	0	4X
18C801001	13-Jan	-	13-Jan	1	0	0	6E
18CN01014	1-May	-	11-May	0	51	0	4S
18EG01001	30-Mar	-	30-Mar	0	1	1	4W
18HI01001	26-Apr	-	26-Apr	0	1	1	4T
18HI01002	1-Aug	-	1-Aug	0	1	1	4T
18HI01003	18-Sep	-	18-Sep	0	0	1	4T
18HI01004	3-Oct	-	3-Oct	0	0	1	4T
18HI01005	16-Oct	-	16-Oct	0	0	1	4T
18HI01006	1-Nov	-	1-Nov	0	1	0	4T
18HI01007	14-Nov	-	14-Nov	0	1	0	4T

18HI01008	29-Nov	-	29-Nov	0	1	0	4T
18HL01001	2-Mar	-	4-Mar	13	0	0	4X,6E
	29-Mar	-	29-Mar	1	0	0	6E
18HT01036	12-Jul	-	17-Jul	0	28	0	4X
18HU01009	1-May	-	16-May	0	3	65	3PS,3PN,4R,4S,4T,4VN,4VS,4W,4X
	25-May	-	25-May	0	1	1	4W
18HU01022	30-May	-	15-Jun	0	2	50	1F,2H,2J,3K,4R,4W,4X
18HU01061	23-Oct	-	7-Nov	0	3	62	3PS,4R,4S,4T,4VN,4VS,4W,4X
18HU01064	29-Nov	-	8-Dec	0	78	0	4R,4S,4T,4VN,4W
18HU01068	14-Nov	-	25-Nov	27	77	76	3K,3L,3M,3N,3O
18HU01072	8-Dec	-	8-Dec	0	1	0	4W
18IS01001	12-Feb	-	14-Feb	6	0	0	4W,4X
18IS01002	2-Mar	-	4-Mar	11	0	0	4X,6E
	30-Mar	-	30-Mar	10	0	0	4W,4X,6E
18IS01003	14-May	-	18-May	15	0	0	4X
18IS01004	22-May	-	25-May	8	0	0	4W,4X
18IS01005	4-Jun	-	8-Jun	9	0	0	4W,4X
18IS01006	27-Aug	-	31-Aug	14	0	0	4W,4X
18IS01007	10-Sep	-	13-Sep	11	0	0	4X
18IS01008	17-Sep	-	21-Sep	19	0	0	4W,4X
18LL01001	21-Feb	-	21-Feb	0	1	1	3L
18MF01013	21-Apr	-	2-May	0	36	0	4R,4S,4T
18MF01015	30-May	-	10-Jun	0	78	0	4R,4S,4T,4VN
18MF01020	11-Jun	-	17-Jun	0	52	0	4S,4T
18MF01061	18-Sep	-	22-Sep	0	43	0	4S,4T
18MP01001	24-Jan	-	17-Feb	54	0	0	3L,3M,3N,3O,4VS,4W
18MP01002	5-Apr	-	11-Apr	12	0	0	3O,4VS,4W
18MP01003	7-May	-	24-May	40	0	0	4W,4X,5Y
18NE01001	25-Jan	-	27-Jan	0	0	8	4VN
18NE01002	2-Feb	-	9-Feb	0	8	8	4VS,4W
18NE01003	13-Feb	-	23-Feb	0	49	49	4W,5ZE
18NE01004	27-Feb	-	14-Mar	0	90	90	4VS,4W
18NE01005	24-Nov	-	4-Dec	5	68	1	2J,3K,3L
18NE01006	7-Dec	-	17-Dec	3	49	1	2H,2J,3L
18NE01026	19-Jun	-	26-Jun	0	0	12	4T
18NE01032	3-Jul	-	15-Jul	0	100	99	4W,4X,5Y
18NE01037	16-Jul	-	30-Jul	0	110	110	4VN,4VS,4W
18NE01042	4-Aug	-	4-Aug	0	4	0	3PN
	12-Aug	-	17-Aug	0	46	0	4R,4S,4T
18NE01050	4-Sep	-	5-Sep	0	0	8	4T
	13-Sep	-	28-Sep	0	1	141	4T,4VN
18NE01051	27-Sep	-	27-Sep	0	1	0	4T
18OK01001	31-Aug	-	31-Aug	0	0	1	3L
18OK01002	25-Apr	-	7-May	18	3	0	3PS
18OK01003	11-Apr	-	19-Apr	10	0	0	3PS
18OK01004	29-May	-	13-Jun	0	21	0	3L
18OK01005	16-Jan	-	25-Jan	0	21	0	3L
	31-Jan	-	31-Jan	0	1	0	3L
18OK01006	15-May	-	20-May	0	8	0	3L
18OK01007	22-May	-	24-May	0	23	0	3L
18OK01008	16-Jun	-	28-Jun	7	10	0	3L
18OK01009	30-Jul	-	10-Aug	0	19	0	3L
18OK01010	16-Jul	-	19-Jul	0	2	0	3K,3L
	27-Jul	-	27-Jul	0	1	0	3L
18OK01011	21-Aug	-	22-Aug	0	2	0	3L
18OK01012	6-Oct	-	15-Oct	0	13	0	3L
18OK01013	26-Nov	-	3-Dec	0	27	0	3L
18OK01014	18-Nov	-	20-Nov	2	3	0	3L
18OK01015	23-Nov	-	24-Nov	2	0	0	3L
18OP01001	3-May	-	3-May	0	1	1	4T
18OP01002	17-May	-	17-May	0	1	1	4T
18OP01003	30-May	-	30-May	0	1	1	4T
18OP01004	16-Jun	-	16-Jun	0	1	1	4T
18OP01005	1-Jul	-	1-Jul	0	1	1	4T

18OP01006	10-Jul	-	10-Jul	0	1	1	4T
18OP01007	14-Aug	-	14-Aug	0	1	1	4T
18OP01008	18-Sep	-	18-Sep	0	1	0	4T
18OP01009	3-Oct	-	3-Oct	0	1	0	4T
18OP01010	16-Oct	-	16-Oct	0	1	0	4T
18OR01902	5-Apr	-	5-Apr	0	1	0	4T
18PA01001	2-Jan	-	2-Jan	0	1	1	4X
18PA01002	15-Jan	-	15-Jan	0	1	1	4X
18PA01003	29-Jan	-	29-Jan	0	1	1	4X
18PA01004	13-Feb	-	13-Feb	0	1	1	4X
18PA01005	1-Mar	-	1-Mar	0	1	1	4X
18PA01006	20-Mar	-	20-Mar	0	1	1	4X
18PA01007	29-Mar	-	29-Mar	0	1	1	4X
18PA01008	2-May	-	2-May	0	0	1	4X
18PA01009	18-May	-	22-May	0	1	1	4X
18PA01010	30-May	-	30-May	0	1	1	4X
18PA01011	12-Jun	-	12-Jun	0	1	1	4X
18PA01012	26-Jun	-	26-Jun	0	1	1	4X
18PA01013	13-Jul	-	13-Jul	0	1	1	4X
18PA01014	31-Jul	-	31-Jul	0	1	1	4X
18PA01015	14-Aug	-	14-Aug	0	1	1	4X
18PA01016	28-Aug	-	28-Aug	0	1	1	4X
18PA01017	13-Sep	-	13-Sep	0	1	1	4X
18PA01018	14-Nov	-	14-Nov	0	1	0	4X
18PA01019	29-Nov	-	29-Nov	0	1	0	4X
18PV01001	14-Jan	-	14-Jan	3	0	0	4W,6E
18PY01001	12-Dec	-	12-Dec	0	1	0	4T
18QU01001	8-May	-	23-May	56	0	0	4W,4X,6A
18QU01261	22-Aug	-	30-Aug	22	0	0	4W,4X
18S601001	19-Oct	-	26-Oct	19	0	0	4X
18S601002	29-Oct	-	31-Oct	9	0	0	4X,6E
18S901001	5-Jan	-	5-Jan	0	1	1	4W
	20-Jan	-	20-Jan	0	1	1	4W
18S901002	10-Apr	-	10-Apr	0	1	1	4W
18S901003	15-Aug	-	15-Aug	0	1	1	4W
18S901004	30-Aug	-	30-Aug	0	1	1	4W
18S901005	18-Sep	-	18-Sep	0	1	1	4W
18S901006	12-Oct	-	12-Oct	0	1	1	4W
18S901007	23-Nov	-	23-Nov	0	1	1	4W
18TL01001	8-Jan	-	16-Jan	10	11	1	2J,3K,3L
18TL01002	11-Apr	-	19-Apr	2	39	2	3L,3PS,3PN
18TL01003	21-Apr	-	4-May	38	80	79	3K,3L,3M,3N,3O
18TL01004	6-May	-	24-May	76	62	2	3K,3L
18TL01005	21-Jun	-	21-Jun	0	0	1	3L
18TL01006	13-Jul	-	29-Jul	75	108	108	2G,2H,2J,3K,3L
18TL01007	21-Sep	-	5-Oct	3	37	2	3L,3N,3O
18TL01008	6-Apr	-	10-Apr	0	12	0	3PS
18TL01009	26-May	-	26-May	0	1	0	3L
	2-Jun	-	4-Jun	0	2	0	3L,3PS
18TL01010	6-Jun	-	21-Jun	22	14	0	2J,3K,3L,3PS
18TL01011	24-Jun	-	27-Jun	0	12	0	3L
18TL01012	6-Oct	-	15-Oct	1	51	2	3L,3M,3N
18TL01013	1-Dec	-	12-Dec	3	98	0	2J,3K
18TL01014	19-Nov	-	28-Nov	2	55	1	2J,3L
18TL01015	13-Dec	-	18-Dec	2	15	0	2H,3K
18TR01001	26-Sep	-	27-Sep	5	0	0	4X
18TR01002	2-Oct	-	4-Oct	4	0	0	4X
18TR01003	19-Oct	-	25-Oct	17	0	0	4X
18TR01004	29-Oct	-	31-Oct	7	0	0	4X,6E
18VA01001	9-Jan	-	9-Jan	0	1	1	3L
18VA01002	2-Feb	-	2-Feb	0	1	1	3L
18VA01003	30-Mar	-	30-Mar	0	1	1	3L
18VA01004	27-Apr	-	27-Apr	0	1	1	3L
18VA01005	4-Jun	-	4-Jun	0	1	1	3L

18VA01006	20-Jun	-	20-Jun	0	1	1	3L
18VA01007	4-Jul	-	4-Jul	0	0	1	3L
18VA01008	9-Aug	-	9-Aug	0	2	1	3L
18VA01009	2-Oct	-	2-Oct	0	2	0	4X
18VA01010	15-Oct	-	16-Oct	0	3	0	4X
18VA01011	29-Oct	-	30-Oct	0	3	0	4X
18VA01012	2-Mar	-	2-Mar	0	11	0	4X
	30-Apr	-	6-May	0	30	0	4X
18VA01013	17-Sep	-	17-Sep	0	1	1	3L
18VA01014	17-Jun	-	26-Jun	32	0	0	3L,3N,3O
	4-Sep	-	7-Sep	13	2	0	4W
18VA01015	31-Aug	-	31-Aug	0	1	0	3L
	11-Sep	-	22-Sep	0	8	0	4VS
18VA01016	29-Sep	-	29-Sep	0	2	0	4W
	12-Oct	-	12-Oct	0	2	0	4W
18VA01017	3-Oct	-	5-Oct	9	6	0	4W
18VA01018	22-Oct	-	22-Oct	0	2	0	4VS,4W
	19-Nov	-	19-Nov	0	2	0	4W
18VA01019	23-Oct	-	23-Oct	6	1	0	4W
18VA01020	3-Jul	-	12-Jul	63	0	0	4X
	2-Oct	-	4-Oct	0	9	0	3PS
18VA01021	3-Jul	-	10-Jul	61	0	0	4X
	13-Nov	-	22-Nov	0	40	0	3K
18VA01022	31-May	-	31-May	0	4	0	3PS
	8-Jul	-	11-Jul	30	0	0	4X
18VA01023	21-Jan	-	24-Jan	12	0	0	4W
	25-Jun	-	26-Jun	0	16	0	3K
18VA01024	12-Jul	-	13-Jul	0	7	0	3PS
	1-Aug	-	3-Aug	13	0	0	5ZE
18VA01025	6-Aug	-	9-Aug	17	0	0	5ZE
	22-Aug	-	30-Aug	0	62	0	3K
18VA01026	14-Aug	-	16-Aug	11	0	0	5ZE
18VA01027	15-Sep	-	16-Sep	10	0	0	4W
18VA01028	20-Sep	-	20-Sep	5	0	0	4W
18VA01029	24-Sep	-	24-Sep	5	0	0	4W
18VA01032	17-Sep	-	18-Sep	13	0	0	4W
18VA01033	28-Sep	-	30-Sep	13	0	0	4W
18VA01034	11-Oct	-	12-Oct	12	0	0	4W
18VA01036	21-Sep	-	23-Sep	15	0	0	4W
18VA01037	4-Oct	-	5-Oct	11	0	0	4VS,4W
18VA01038	11-Oct	-	12-Oct	10	0	0	4VS
18VA01039	20-Oct	-	22-Oct	14	0	0	4VS,4W
18VA01040	19-Nov	-	19-Nov	4	0	0	4W
18VA01041	10-Sep	-	13-Sep	13	0	0	4VS,4W
18VA01042	16-Sep	-	18-Sep	11	0	0	4VS,4W
18VA01043	21-Sep	-	23-Sep	14	0	0	4VS
18VA01044	29-Sep	-	29-Sep	3	0	0	4W
18VA01045	10-Oct	-	10-Oct	2	0	0	4W
18VA01046	23-Oct	-	23-Oct	2	0	0	4W
18VA01047	29-Oct	-	29-Oct	2	0	0	4W
18VA01048	31-Aug	-	31-Aug	1	0	0	4W
18VA01049	3-Sep	-	3-Sep	2	0	0	4W
18VA01050	5-Sep	-	5-Sep	3	0	0	4W
18VA01051	10-Sep	-	10-Sep	3	0	0	4W
18VA01052	11-Sep	-	11-Sep	2	0	0	4W
18VA01099	29-Jun	-	14-Sep	0	53	0	4T
18VQ01001	19-Mar	-	27-Mar	12	0	0	3N,3O,4VS,4W
18VQ01002	4-Jul	-	10-Jul	10	0	0	3M,3N,3O,4VS
	17-Jul	-	19-Jul	4	0	0	3N,3O
18VQ01003	17-Sep	-	21-Sep	12	0	0	4X
316G01001	7-Feb	-	21-Feb	0	47	0	5ZW,6A,6B
316G01002	16-May	-	24-May	0	24	0	6B,6C
316G01003	29-May	-	6-Jun	0	79	0	4X,5Y,5ZE,5ZW
316G01004	13-Jun	-	21-Jun	0	20	0	5ZE

316G01005	24-Jul	-	27-Jul	0	6	0	5Y
316G01006	8-Aug	-	29-Aug	0	154	0	4X,5Y
316G01007	6-Sep	-	26-Sep	0	123	0	4X,5Y,5ZE,5ZW
	3-Oct	-	10-Oct	0	28	0	4X,5Y,5ZE
31A401001	30-Jan	-	22-Feb	0	176	0	5ZE,5ZW,6A,6B,6C
31A401002	28-Feb	-	3-Mar	0	33	0	6A,6B
	13-Mar	-	21-Mar	0	94	0	6A,6B,6C
	27-Mar	-	17-Apr	0	147	0	4X,5Y,5ZE,5ZW,6A
	24-Apr	-	30-Apr	0	61	0	4X,5Y,5ZE,5ZW
31A401003	20-May	-	25-May	0	62	0	5ZE,5ZW,6A,6B,6C
31A401004	27-Jun	-	3-Jul	0	29	0	6A,6B
	10-Jul	-	19-Jul	0	66	0	5ZE,6A,6B,6C
	7-Aug	-	16-Aug	0	65	0	5ZE
31A401005	24-Jul	-	2-Aug	0	51	0	4X,5Y
31A401006	21-Aug	-	28-Aug	0	80	0	4X,5Y,5ZE,5ZW
31A401007	5-Sep	-	22-Oct	0	336	0	4X,5Y,5ZE,5ZW,6A,6B,6C
31A401008	30-Oct	-	16-Nov	0	130	0	4X,5Y,5ZE,5ZW,6A,6B,6C
32OD01001	6-Jan	-	6-Jan	27	0	0	6A,6B
32OD01002	9-Mar	-	10-Mar	22	0	0	6A,6B
33EN01001	17-Jan	-	19-Jan	10	0	0	5ZE,6D,6E,6F,6H
33SE01001	3-Mar	-	4-Mar	35	0	0	6A,6B,6C
74NO01001	21-Jan	-	21-Jan	1	0	0	6E
AGGD01001	6-Jan	-	8-Jan	9	0	0	4X,5Y,5ZW
AGGD01002	29-Jan	-	30-Jan	13	0	0	1F,2J,3K,3L
AGGD01003	3-Feb	-	4-Feb	7	0	0	4X,5Y,5ZW
AGGD01004	4-Mar	-	4-Mar	10	0	0	4X,5Y,5ZW

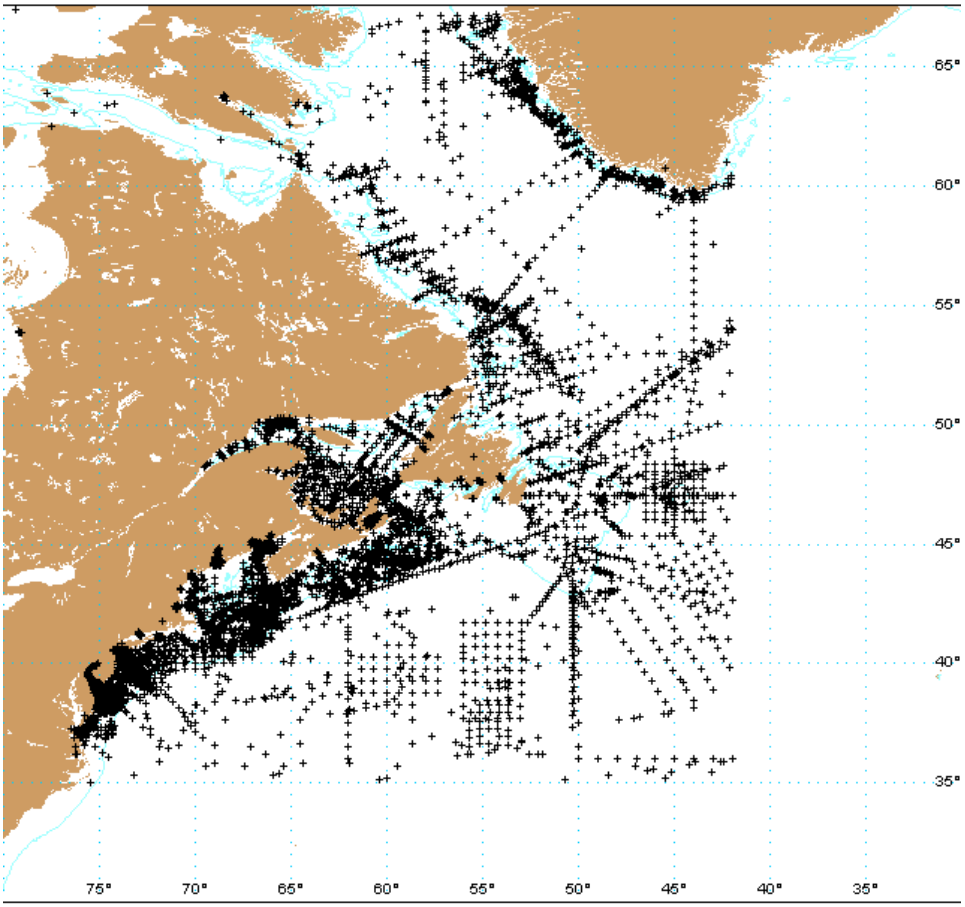
Table 4a Profile data collected in 2001 but not yet received at MEDS.

Country: Denmark Ship Name	Sub-Area	Date Span	Name	Stations	Type	Parameters
Tulugaq	1	2001/06/06-2001/06/06	C. Farewell	5	STD	T,S
Tulugaq	1	2001/06/07-2001/06/07	C. Desolation	5	STD	T,S
Tulugaq	1	2001/06/08-2001/06/08	Fredrikshaab	5	STD	T,S
Tulugaq	1	2001/06/09-2001/06/09	Fylla	5	STD	T,S
Tulugaq	1	2001/06/10-2001/06/10	Sukkertoppen	5	STD	T,S
Tulugaq	1	2001/06/11-2001/06/11	Holsteinborg	5	STD	T,S
OTHER STATIONS						
Paamiut		Jul/Aug/Sep		40	STD	T,S
Country: Germany						
Walther Herwig III	1	2001/06/17-2001/07/12	E. Bethke	28	CTD	T,S

Table 4b Profile data collected in 2001, received at MEDS but not yet processed.

MEDS CRUISE	STATIONS
18S601002	47
18TR01004	49
18HL01002	350
18FN01001	9
18VQ01004	19

Table 4c Profile data collected prior to 2001 and processed during the past year.



TOTAL = 18006 profiles

Unique ID	Year	BT	CTD	BOT	NAFO Sub-area
18ZS36005	1916	0	15	0	4X,4W
180300625	1924	0	0	29	4X
180324012	1926	0	12	0	4X
180326018	1927	0	12	0	4X
180327019	1928	0	12	0	4X
180328020	1929	0	12	0	4X
180329021	1930	0	12	0	4X
180330026	1930	0	1	0	4X
180331001	1931	0	23	0	4T
180331531	1932	0	9	0	4W
180332001	1932	0	40	0	4X
180332002	1932	0	27	0	4T
180332531	1933	0	28	0	4W
180333001	1933	0	51	0	4X
180333531	1934	0	24	0	4W
180334001	1934	0	49	0	4X
180334531	1935	0	18	0	4W
180335001	1935	0	49	0	4X
180335531	1936	0	2	0	4W
180336001	1936	0	43	0	4X
180336057	1936	0	11	0	4X
180336058	1936	0	64	0	4X,4W,1F
18PA99024	1936	0	0	1	4X
18PN36002	1936	0	1	0	4W

18WA75700	1936	0	0	1	XX
18ZS36001	1936	0	6	0	4X
18ZS36002	1936	0	9	0	4V
18ZS36003	1936	0	6	0	4W
18ZS36004	1936	0	1	0	3O
180336059	1937	0	1	0	XX
180337001	1937	0	47	0	4X
180337060	1938	0	11	0	4X
180338001	1939	0	43	0	4X
180339001	1939	0	38	0	4X
318N59002	1951	0	2	0	6B
319C51001	1951	0	1	0	6B
319C51002	1951	0	2	0	6B
319C51003	1951	0	16	0	6B
319C51004	1951	0	73	0	6B
319C51005	1951	0	175	0	6B
319C51006	1951	0	61	0	6B
319C51007	1951	0	204	0	6B
319C51008	1951	0	211	0	6B
319C51009	1951	0	195	0	6B
319C51010	1951	0	38	0	6B
319C51011	1951	0	56	0	6B
319C51012	1951	0	43	0	6B
319C51013	1951	0	16	0	6B
319C51014	1951	0	168	0	6B
32JO78002	1951	0	37	0	6A
319C51015	1952	0	102	0	6B
319C52001	1952	0	24	0	6B
319C52002	1952	0	163	0	6B
31RU00007	1952	0	0	17	6C,6B
32NE51001	1952	0	351	0	6B
32NE52001	1952	0	107	0	6B
32NE52002	1952	0	226	0	6B
32NE52003	1952	0	19	0	6B
32NE52004	1952	0	6	0	6B
32NE52005	1952	0	144	0	6B
32NE52006	1952	0	199	0	6B
32NE52007	1952	1	71	0	6B
32NE52008	1952	0	30	0	6B
32NE52009	1952	0	18	0	6B
318255001	1954	0	5	0	6B
318I54001	1954	0	44	0	6B
318L74007	1954	0	27	0	6A
317J74004	1955	0	112	0	6A
318I54002	1955	0	7	0	6B
318I55001	1955	0	44	0	6B
318I55002	1955	0	16	0	6B
318N54001	1955	0	35	0	6B
318N55001	1955	0	37	0	6B
318I55003	1956	0	13	0	6B
318I56001	1956	0	11	0	6B
318I56002	1956	0	45	0	6B
318N55002	1956	0	31	0	6B
318N56001	1956	0	31	0	6B
318N56002	1957	0	31	0	6B
318N57001	1957	0	35	0	6B
318I56003	1958	0	11	0	6B
318I58001	1958	0	15	0	6B
318N57002	1958	0	31	0	6B
318N58001	1958	0	23	0	6B
318N58002	1958	0	19	0	6B
318N58003	1958	0	7	0	6B
06FI78055	1959	18	0	0	2J,3M,3K,1F,3L
06GA00720	1959	0	93	0	1A

318N58004	1959	0	23	0	6B
318N59001	1959	0	21	0	6B
31M782003	1961	0	0	146	6A,5Z,6C,6B
31KE81002	1962	0	0	48	6C,6A,6B
31PF61001	1962	0	4	0	6B
31PF62001	1963	0	25	0	6B,6C
31PF63001	1963	0	51	0	6B
69983001	1965	1	0	0	6H
06AD01870	1965	0	29	0	1B,3P,5Y,5Z,4X,2J,3K,1C,XX,2G,4V,2H
06AD65088	1966	53	0	0	2J,2H,1D,2G,3K,1E,1C
06WH01650	1966	0	47	0	1F,XX,1C,1E,1D
180486001	1967	0	13	0	XX
06WH66013	1967	88	0	0	4V,2H,4W,3M,2J,3L,3P,3O
06WH67021	1968	116	0	0	2H,1C,XX,2G,1B,2J,1E,1D,1F
31W200002	1968	0	0	2	5Z
06WH68024	1969	132	0	0	1B,1C,1D,1E,XX,1F
06WH69027	1969	108	0	0	5Z,3M,4V,4W,3O,3K,4X,3L,3P
06WH69028	1969	64	0	0	2J,1D,1C,1E,1B,2H,2G
18VA00022	1969	0	0	7	4X
06WH69031	1970	148	0	0	2J,1C,4V,1D,5Z,1F,2G,4X,4W,2H,1B,1E,XX,3P,3L
06WH70032	1970	54	0	0	1D,2J,2H,1C,XX,2G,3K,1F
18VA69001	1970	0	0	239	2J
318I58002	1970	0	29	0	6B
318L70001	1970	0	0	46	5Y
318L70002	1970	0	0	26	5Y
318L70003	1970	0	0	33	5Y
318L70004	1970	0	0	147	5Y
318L70005	1970	0	0	79	5Y
318L70006	1970	0	0	146	5Y
318L70007	1970	0	0	74	5Y
06WH70034	1971	232	0	0	5Z,5Y,4X,4W,6A
18VA70001	1971	0	0	239	2J
06AD00580	1972	0	28	0	1D,2G,2J,3K,2H
06AD66100	1972	35	0	0	1F,1D,1C
06WH71039	1972	157	0	0	5Z,5Y,1F,1E,2J,1D,4X,3K,XX
18MF99014	1972	0	28	0	4T,4S,4R,4V
317576001	1973	0	17	17	6A
18NA72001	1973	0	0	93	4V,XX,4W
318L70008	1973	0	0	11	5Y
318L73001	1973	0	25	0	6A
318L73002	1973	0	25	0	6A
318L73003	1973	0	25	0	6A
318L73004	1973	0	25	0	6A
269916001	1974	0	25	0	1A
317574001	1974	0	28	51	6A,5Z,6B
06AD72165	1974	219	0	0	2J,5Z,1C,4X,3P,5Y,2G,1F,2H,3K,1B,1E,1D,4V,XX
18CN96043	1974	0	0	14	4T
18NA73001	1974	0	0	117	4V,XX,4W
18NE00966	1974	0	0	120	4W,4V
317J73001	1974	0	58	0	6A
317J74001	1974	0	60	0	6A
317J74002	1974	0	62	0	6A
317J74003	1974	0	89	0	6A
318L73005	1974	0	25	0	6A
318L74001	1974	0	26	0	6A
318L74002	1974	0	22	0	6A
318L74003	1974	0	27	0	6A
318L74004	1974	0	26	0	6A
318L74005	1974	0	26	0	6A
318L74006	1974	0	27	0	6A
180567008	1975	3	0	0	2J
181183009	1975	0	4	0	XX
189900008	1975	0	0	14	3P
317574002	1975	0	31	31	6A,6B,5Z

317575001	1975	0	76	76	6A
06AD74178	1975	42	0	0	2J,1F
06AD85262	1975	21	0	0	3M,2J,3L
06GA59001	1975	287	0	0	1A
06WH72042	1975	39	0	0	3P,4V,3O
18AH75001	1975	0	7	0	4R,3K,2H,2J
18AO75001	1975	0	12	0	3L,4V,3O
18AQ75001	1975	0	4	0	3M,3L,3O
18DA74038	1975	0	56	0	4S,4R,4T,3K,3P,4V
18DA75027	1975	0	4	0	4W
18DA75033	1975	0	3	0	4X,4W,6E
18FL92016	1975	0	0	82	4S
18HU00062	1975	0	76	0	4S,4T,4V,4R
18HU75006	1975	0	3	0	4X,6E
18HU75008	1975	0	17	0	3L,3M
18HU99053	1975	0	65	65	4S,4R,4T,4V
18PZ96013	1975	0	0	25	4V,4R
18QU75044	1975	2	0	0	XX
18S275001	1975	0	4	0	3K,4V,2J
18VA99026	1975	0	0	24	4T
31A481004	1975	0	0	49	5Z,6A,6B
31KE75001	1975	0	48	48	6A
31KE75002	1975	0	54	54	6A
31KE75003	1975	0	55	55	6A
31WH00004	1975	0	0	2	6B
317575002	1976	0	28	28	6A
31KE75004	1976	0	51	51	6A
31KE76001	1976	0	47	47	6A
31KE76002	1976	0	80	80	6A
74NO98006	1976	3	0	0	6D
06AD75187	1977	118	0	0	4X,5Z,5Y
31KE76003	1977	0	38	38	6A
31KE77001	1977	0	79	0	6A,6B
31KE77002	1977	0	100	0	6A,6B
31KE77003	1977	0	51	0	6A,6B
31KE77004	1977	0	88	0	6A,6B
32OD99011	1977	23	0	0	6A,6B,6D
32OP77001	1977	9	0	0	6A,6B
32P977001	1977	11	0	0	6A,6B
32RU77001	1977	0	0	10	6A,6B
32RU77002	1977	0	0	11	6A,6B
32RU77003	1977	11	0	0	6B,6A
90BE76003	1977	0	50	0	5Z
180399602	1978	0	0	13	4X
180478001	1978	0	29	0	XX
06AD77202	1978	35	0	0	5Z,4X,5Y
06DA02320	1978	0	51	0	5Z,4X,5Y
06DA78208	1978	0	7	0	5Z
31KE77005	1978	0	53	0	6A
31KE78001	1978	0	92	0	6B,6A
31KE78002	1978	0	103	0	6A,6B
31KE78003	1978	0	112	0	6A,6B
32AD75001	1978	0	35	0	6A
32JO78001	1978	0	11	0	6A
90P377017	1978	0	35	0	2H,2J,3M,3K
90PH77016	1978	0	292	0	3M,3N,3O,3L,3K,XX,6G
90PH78015	1978	0	40	0	3K,3L,3O,3N,2J
180478002	1979	0	17	0	0B,XX
180479001	1979	0	29	0	XX
06WH75064	1979	55	0	0	1E,1D,1F,1C,XX
18BA75011	1979	0	25	0	4W,XX,4S,2H,4V,2J,2G,4T,4R,3K
31KE78004	1979	0	112	0	6A,6B
31KE79001	1979	0	0	101	6A,6B
31KE79002	1979	0	0	100	6A,6B

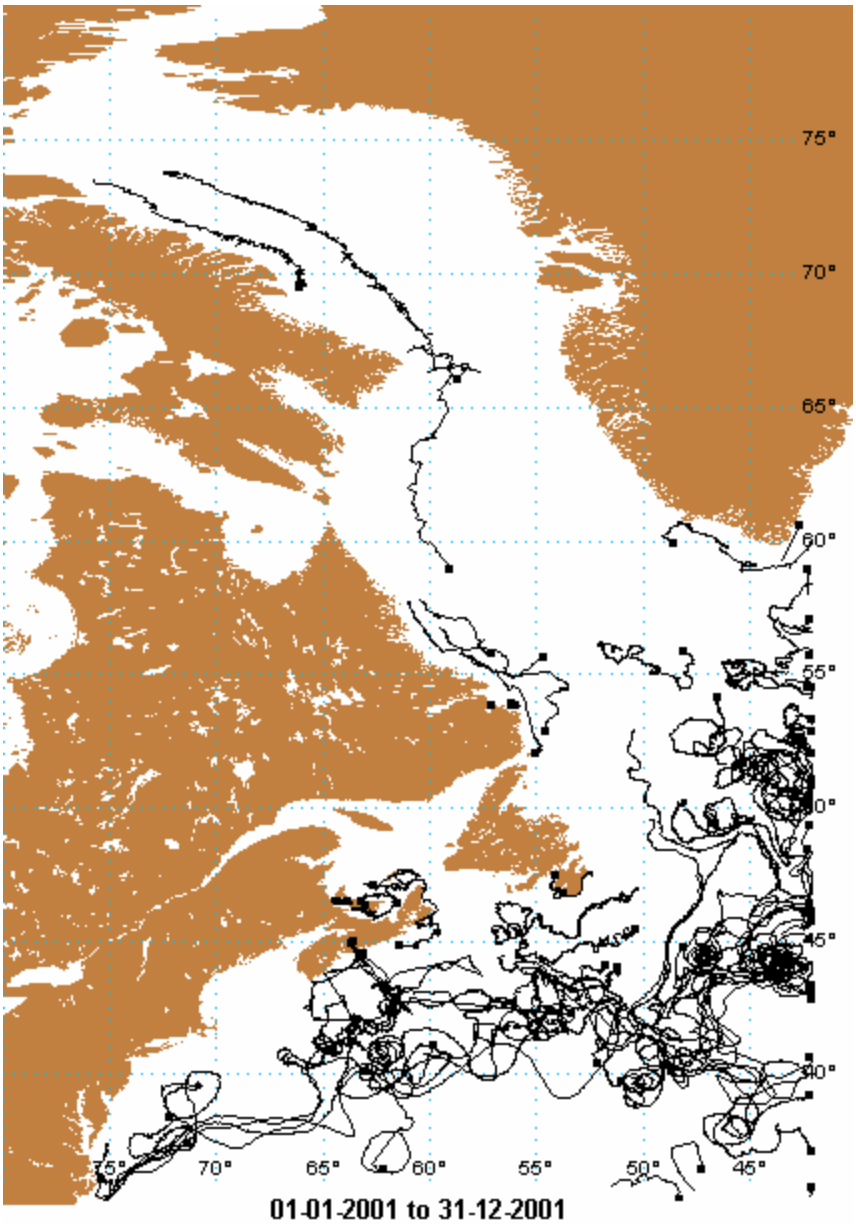
31KE79003	1979	0	0	126	6A,6B
69965001	1980	61	0	0	3M,3K,2H,2G,3L,2J,1C,0B,1A,1B
06WH79078	1980	13	0	0	1E,1C,1F,1D
18VA71001	1980	0	0	261	2J
31KE79004	1980	0	0	133	6A,6B
31KE80001	1980	0	0	45	6A,6B
31KE80002	1980	0	0	46	6A,6B
31KE80003	1980	0	0	46	6A,6B
180479002	1981	0	12	0	XX,0B
319C52003	1981	0	128	0	6B
31KE80004	1981	0	0	44	6A,6B
31LN62001	1981	0	6	0	6B
06WH80085	1982	12	0	0	1B,1E,1F,1C,1D
18VA80001	1982	0	27	0	XX
31M781001	1982	0	0	57	6A,6B,6C
31M782001	1982	0	0	65	6B,6A,5Z,6C
31M782002	1982	0	0	31	6A,6C,6B
35LL89001	1982	0	0	52	4V,6F,6G,3O
69980001	1983	5	0	0	1F
180339066	1983	0	2	0	4X
181075038	1983	0	2	0	4V,4W
189001001	1983	0	32	0	4T,4S
06AD78208	1983	222	0	0	5Z,4V,3L,3M,4W,4X,3P,3O,3N,5Y
18HU75009	1983	0	31	0	1E,2G,4R,3K,1F,0B,1D
18HU83009	1983	0	0	39	4V,6F,6E,4W
18LA75001	1983	0	10	0	0B,2H,2J,1A,2G,4R,0A
18VA82001	1983	0	23	0	XX
31PF63002	1983	0	32	0	6B
180383600	1984	0	9	0	4X
180481001	1984	0	24	0	XX
18LH83005	1984	0	32	0	4X
180384600	1985	0	9	0	4X
180385600	1985	0	12	0	4X
180484001	1985	0	13	0	XX
06AD83247	1985	15	0	0	3L,3K,3M
18LH84006	1985	0	0	79	4X,5Z
18LH85005	1985	0	0	53	4X,5Z
180385601	1986	0	12	0	4X
180386600	1986	0	12	0	4X
180485001	1986	0	15	0	XX
180386601	1987	0	11	0	4X
180387600	1987	0	12	0	4X
180387601	1988	0	12	0	4X
180388600	1988	0	12	0	4X
33SE00005	1988	2	0	0	6B
180388601	1989	0	12	0	4X
180389600	1989	0	11	0	4X
35LL88001	1989	0	0	36	6G,6F,4V
180389601	1990	0	11	0	4X
180390600	1990	0	10	2	4X
180391600	1990	0	0	12	4X
18FR75008	1990	0	10	0	3L,2J,4W,3P,3K
18HU83023	1990	0	0	23	1E,1A,2G,0A,1B,2H,1D
180390601	1991	0	10	2	4X
180391601	1992	0	0	12	4X
180392600	1992	0	0	12	4X
18DE97008	1992	0	0	0	4T
180392601	1993	0	0	12	4X
180393600	1993	0	0	12	4X
180393601	1994	0	0	12	4X
180394600	1994	0	0	11	4X
180394601	1995	0	0	11	4X
180395600	1995	0	0	12	4X
18CN79001	1995	0	8	0	0B

18CN95035	1995	0	0	17	4T
180395601	1996	0	0	12	4X
180396600	1996	0	0	11	4X
18CN95036	1996	0	0	9	4T
18CN96016	1996	0	0	18	4V
18CN96036	1996	0	0	1	4S
18CN96037	1996	0	0	33	4T
18PN36003	1996	0	43	0	4X
180396601	1997	0	0	11	4X
180397600	1997	0	0	14	4X
18DA75036	1997	0	7	0	4X,4W
18HU90037	1997	0	0	38	3N,6G,3M,XX
180397601	1998	0	0	14	4X
180398600	1998	0	0	21	4X
18GE90006	1998	0	0	3	4S
18HU97009	1998	0	0	136	1E,1F,2J,3K,2H,4W,1D,4X,4V,2G,3L,XX
18MF00024	1998	0	107	0	4R,4T,4V,4S
18VA83001	1998	0	8	0	XX
18VA98018	1998	0	0	10	4T
18VA98019	1998	0	0	20	4T
18VA98020	1998	0	0	17	4T
18VA98021	1998	0	0	17	4T
33EN00010	1998	10	0	0	6E,6G,6F,5Z,6H
33EN98003	1998	8	0	0	6C,3M,6G,6D,6E
33EN98004	1998	30	0	0	4W,3N,4X,4V,3O,3M,6A,5Z
33EN98005	1998	14	0	0	6H,6F,6G,6E
49K682001	1998	86	55	0	6D,5Z,6E,4W,4V,6C,6B,4X
74NO98004	1998	4	0	0	6D,5Z
74NO98005	1998	4	0	0	6D
90PH78017	1998	0	383	0	3N,3M,3K,3L,6G,XX,2J,3O,2H
AGHA98014	1998	8	0	0	3K,3L,XX
AGHA98015	1998	7	0	0	3L,3K,1F,XX
AGHA98016	1998	7	0	0	XX,3K,2J
AGHA98017	1998	5	0	0	XX,3K,3M
AGHA98018	1998	5	0	0	3K,3L,XX,1F
180398601	1999	0	0	21	4X
180399601	1999	0	0	20	4X
18HT98051	1999	0	0	31	4X
18HU98023	1999	0	0	43	1F,2H,4W,4R,2J,4X
18MF98014	1999	0	22	0	4S,4R,4T,4V
18PA00023	1999	0	0	1	4X
18PA99001	1999	0	0	1	4X
18PA99002	1999	0	0	1	4X
18PA99003	1999	0	0	1	4X
18PA99004	1999	0	0	1	4X
18PA99005	1999	0	0	1	4X
18PA99006	1999	0	0	1	4X
18PA99007	1999	0	0	1	4X
18PA99008	1999	0	0	1	4X
18PA99009	1999	0	0	1	4X
18PA99011	1999	0	0	1	4X
18PA99012	1999	0	0	1	4X
18PA99013	1999	0	0	1	4X
18PA99014	1999	0	0	1	4X
18PA99015	1999	0	0	1	4X
18PA99017	1999	0	0	1	4X
18PA99018	1999	0	0	1	4X
18PA99019	1999	0	0	1	4X
18PA99021	1999	0	0	1	4X
18PA99022	1999	0	0	1	4X
18PA99023	1999	0	0	1	4X
18VA98022	1999	0	0	20	4T
18VA99021	1999	0	0	11	4X
18VA99022	1999	0	0	56	4T

18VA99023	1999	0	0	19	4X
18VA99024	1999	0	0	8	4T
18VA99025	1999	0	0	34	4X,5Y
32NE52010	1999	0	6	0	6B
180300601	2000	0	0	21	4X
180300602	2000	0	0	23	4X
180300603	2000	0	0	28	4X
180300615	2000	0	0	29	4X
180300616	2000	0	0	30	4X
180300617	2000	0	0	29	4X
181875008	2000	1	0	0	2J
189000001	2000	0	30	0	4T,4S
189183070	2000	0	0	4	XX
189900002	2000	0	0	11	3P
189900003	2000	0	0	9	3P
189900004	2000	0	0	23	3P
189900005	2000	0	0	5	3P
189900006	2000	0	0	10	3P
189900007	2000	0	0	13	3P
06WH82099	2000	2	0	0	XX
181C00014	2000	0	1	0	3L
18HT99027	2000	0	0	1	4X
18HU00001	2000	0	88	0	3L,3K,3M,3N,3O
18HU00020	2000	0	0	84	4V,4W,3L
18LH85006	2000	0	0	65	4X,5Z
18NA74001	2000	0	0	141	XX,4V,4W
18NE00026	2000	0	101	0	4X,4W,5Y,5Z
18NE00031	2000	0	121	0	4V,4W
18NE00045	2000	0	200	0	4T,4V
18NE00426	2000	0	0	97	4X,4W,5Z,5Y
18NE00431	2000	0	0	119	4V,4W
18NE00965	2000	0	0	46	5Z
18NR74001	2000	0	13	0	XX
18PA00001	2000	0	0	1	4X
18PA00002	2000	0	0	1	4X
18PA00003	2000	0	0	1	4X
18PA00004	2000	0	0	1	4X
18PA00005	2000	0	0	1	4X
18PA00006	2000	0	0	1	4X
18PA00007	2000	0	0	1	4X
18PA00008	2000	0	0	1	4X
18PA00009	2000	0	0	1	4X
18PA00010	2000	0	0	1	4X
18PA00011	2000	0	0	1	4X
18PA00012	2000	0	0	1	4X
18PA00013	2000	0	0	1	4X
18PA00014	2000	0	0	1	4X
18PA00015	2000	0	0	1	4X
18PA00016	2000	0	0	1	4X
18PA00017	2000	0	0	1	4X
18PA00018	2000	0	0	1	4X
18PA00019	2000	0	0	1	4X
18PA00020	2000	0	0	1	4X
18PA00021	2000	0	0	1	4X
18S275025	2000	0	5	0	3O,3N,4V,3P
18TL00002	2000	0	69	0	3O,3L,3M,3K,3N
18TL00007	2000	0	110	0	3L,3K,2J,3M,2H,2G
18TL00015	2000	0	1	0	3L
18VA00002	2000	0	0	1	4X
18VA00003	2000	0	1	0	3L
18VA00004	2000	0	1	0	3L
18VA00005	2000	0	1	0	3L
18VA00006	2000	0	1	0	3L
18VA00007	2000	0	1	0	3L

18VA00008	2000	0	1	0	3L
18VA00009	2000	0	1	0	3L
18VA00010	2000	0	1	0	3L
18VA00011	2000	0	1	0	3L
18VA00014	2000	0	1	0	3L
18VA00016	2000	0	1	0	3L
18VA00017	2000	0	1	0	3L
18VA00018	2000	0	1	0	3L
18VA00020	2000	0	0	22	4X
18VA00021	2000	0	0	8	4X
31PP83001	2000	0	0	8	6C,6B
31RU00001	2000	0	0	50	5Z,6C,6B
31RU00002	2000	0	0	61	5Z,XX
31RU00003	2000	0	0	17	6A,XX
31RU00004	2000	0	0	40	6A
31RU00005	2000	0	0	99	6A,5Z
31RU00006	2000	0	0	74	6A
31SN52001	2000	0	198	0	6B
31W100001	2000	0	0	12	6B
31W100002	2000	0	0	5	6B
31W100003	2000	0	0	2	6B
31W100004	2000	0	0	4	5Z
31W100005	2000	0	0	13	5Z
31W100006	2000	0	0	49	5Z
31W100007	2000	0	0	4	5Z
31W200001	2000	0	0	1	5Z
31WE13140	2000	0	1	0	1B
31WH00001	2000	0	0	1	XX
31WH00002	2000	0	0	2	6B
31WH00003	2000	0	0	2	6B
32RU77004	2000	10	0	0	6A,6B
32UU00001	2000	9	0	0	4W,6B,4V
32UU00002	2000	9	0	0	4V,6F,3N,3O
33DB00001	2000	6	0	0	6H,XX,6G
33EN00008	2000	4	0	0	6H,XX
33EN00009	2000	12	0	0	6E,4V,3M,6F,3N,6D
33EN98006	2000	8	0	0	6F,6E,6H,5Z
33N200001	2000	0	0	15	6A
33SE00004	2000	5	0	0	6B,6A,6C

Table 5 Drifting Buoys in the NAFO Area in 2001.



TOTAL = 6272 messages

BUOY	DATE RANGE	DAYS	SST	AP	AT	WS	WD	TC	NAFO Subarea
14601	Jul-11 - Jul-13	2	-	X	-	-	-	-	4X
14603	Jul-10 - Jul-10	1	X	-	-	-	-	-	4X
16051	Aug-01 - Aug-05	4	X	X	-	-	-	-	6B
17532	Aug-01 - Aug-07	6	X	X	-	-	-	-	6B
17537	Jul-12 - Jul-13	2	-	X	-	-	-	-	4X
17541	Jul-11 - Jul-12	2	-	X	-	-	-	-	4X
17543	Jul-24 - Jul-25	1	X	X	-	-	-	-	5ZW
17630	Aug-01 - Aug-07	6	X	X	-	-	-	-	6B

21604	Jun-07 - Jun-13	6	X	X	-	-	-	-	6B
21611	Jul-03 - Jul-03	1	X	-	-	-	-	-	5ZW
21613	Jun-30 - Jul-05	6	X	X	-	-	-	-	6B
21614	Jun-29 - Aug-29	61	-	X	-	-	-	-	6B
21617	Jul-03 - Jul-03	1	X	-	-	-	-	X	5ZW
21628	Jun-30 - Jul-06	6	-	-	-	-	-	-	6B
21631	Aug-28 - Aug-30	2	X	X	-	-	-	-	6B
21632	Aug-21 - Aug-28	7	-	X	-	-	-	-	6B
21633	Aug-23 - Sep-18	26	-	-	-	-	-	-	6B
22519	Jul-03 - Jul-03	1	X	-	-	-	-	X	5ZW
22520	Jul-03 - Jul-03	1	X	-	-	-	-	-	5ZW
23505	May-01 - May-02	1	X	X	-	-	-	-	6A
33538	Jul-18 - Jul-18	1	X	-	-	-	-	-	4X
33554	Jul-25 - Jul-25	1	X	X	-	-	-	-	5ZW
33557	Jul-25 - Jul-27	3	X	X	-	-	-	-	5ZW
33563	Aug-02 - Aug-04	3	X	X	-	-	-	-	6B
35538	Jul-11 - Jul-13	2	-	X	-	-	-	-	4X
41595	Jun-14 - Jun-28	15	X	X	X	-	-	-	6C,6B,6D,4X,5ZE,4W
41622	Mar-27 - Apr-09	13	X	X	-	-	-	-	6H
41648	Jun-21 - Jun-22	1	-	X	-	-	-	-	6B
41649	Jun-14 - Jun-15	2	X	X	-	-	-	-	6B
41650	Jun-20 - Jun-22	2	-	X	-	-	-	-	6B
41651	Jun-13 - Jun-14	1	X	X	-	-	-	-	6B
41652	Jun-14 - Jun-15	2	X	X	-	-	-	-	6B
41654	Aug-28 - Sep-05	9	X	X	-	-	-	-	6B
41657	Nov-10 - Dec 30	51	X	X	X	-	-	-	6C,6B,5ZW,5ZE,6D,6E
41658	Nov-04 - Dec 31	58	X	X	X	-	-	-	6C,6B,6D,4X,5ZE,4W,4VS,6G,3N
41659	Nov-03 - Dec 31	59	X	X	X	-	-	-	6B,6C,6D,6E,4X,4W
41663	Nov-10 - Dec 31	52	X	X	-	-	-	-	6C,6B,6A,5ZW
41664	Nov-05 - Dec 31	57	X	X	-	-	-	-	6C,6B,6D,6E,4X,4W,4VS,6G,3O,3N
44470	Jan-01 - Jan-02	2	X	X	-	-	-	-	1A
44471	Jan-01 - Jan-02	2	X	X	-	-	-	-	1B
44505	Jan-01 - Jul-01	181	X	X	-	-	-	-	3O,3PS,3N,3M,6H
44507	Apr-10 - Sep-03	147	X	X	-	-	-	-	3N,3M
44508	Apr-30 - Oct-13	167	X	X	-	-	-	-	3K,3L,3N,3M
44509	Apr-30 - Aug-04	97	X	X	-	-	-	-	3L,3PS
44510	May-24 - Aug-05	73	X	X	-	-	-	-	3N,3M
44511	Jul-03 - Aug-20	48	X	X	-	-	-	-	3L,3N,3M
44512	Jan-02 - Jan-24	22	X	X	-	-	-	-	3L
44548	Jan-01 - Jun-19	170	X	X	X	-	-	-	3M,3N,3K,2J,1F
44549	Mar-01 - Oct-03	217	X	X	X	-	-	-	3K,3M,2J,1F
44550	Mar-01 - Sep-13	197	X	X	X	-	-	-	3L,3M,3K,2J
44616	Apr-09 - Aug-04	118	X	X	X	-	-	-	2J,3K,3L,3M,3N
44621	Apr-09 - Aug-26	140	X	X	X	-	-	-	1F
44624	Apr-09 - Dec 29	265	X	X	X	-	-	-	3M,3N
44625	Apr-09 - Dec 31	267	-	X	X	-	-	-	3L,3O,3PS,4VS,3N
44627	Jul-05 - Dec 31	180	X	X	X	-	-	-	3K,3L,3M
44629	Apr-09 - May-30	52	X	X	X	-	-	-	3N,3M
44653	Feb-14 - Feb-22	9	-	-	-	-	-	-	2H,2J
44654	Feb-14 - Mar-08	23	-	-	-	-	-	-	2H,2J
44655	Feb-14 - Mar-01	16	-	-	-	-	-	-	2H
44657	Mar-21 - May-15	55	-	-	-	-	-	-	2H,2J,3K
44682	Jan-11 - Mar-28	77	-	-	-	-	-	-	4T,4X
44683	Jan-11 - Mar-28	77	-	-	-	-	-	-	4T,4X
44684	Mar-08 - May-13	66	-	-	-	-	-	-	4T,4VN,4VS,4W
44685	Mar-16 - Apr-26	41	-	-	-	-	-	-	4T
44686	Mar-08 - Apr-08	31	-	-	-	-	-	-	4T
44687	Mar-17 - Apr-22	36	-	-	-	-	-	-	4T
44688	Mar-20 - Mar-20	1	-	-	-	-	-	-	4T

44689	Mar-20 - Apr-05	16	-	-	-	-	-	-	2J
44691	Mar-21 - Apr-08	19	-	-	-	-	-	-	2J
44692	Mar-21 - Apr-08	19	-	-	-	-	-	-	2J
44693	Mar-21 - Apr-08	19	-	-	-	-	-	-	2J
44699	Mar-21 - Apr-05	16	-	-	-	-	-	-	2J
44702	Apr-27 - Apr-27	1	-	-	-	-	-	-	4X
44721	Apr-09 - May-14	36	X	X	X	-	-	-	6H
44723	Sep-11 - Dec 31	112	X	X	X	-	-	-	3K,3L,3M
44725	Jan-01 - Jul-07	188	X	X	X	-	-	-	3M,3K,2J
44728	Oct-23 - Dec 31	70	-	X	X	-	-	-	3K,1F,2J
44730	Oct-23 - Nov-27	36	-	X	X	-	-	-	1F
44741	Apr-12 - May-09	27	X	X	X	-	-	-	1F
44751	Apr-28 - Oct-17	173	-	-	-	-	-	-	4X,4W,4VS,3PS,3O,3N,3M
44752	Apr-28 - Oct-28	184	-	-	-	-	-	-	4X,4W,6E,4VS,3PS,3O
44753	Apr-28 - Sep-13	139	-	-	-	-	-	-	4X,4W,4VS,3O,3N
44754	Apr-27 - Oct-27	184	-	-	-	-	-	-	4X,4W,5ZE,6E,4VS,3O,3N,3M
44755	Apr-28 - Sep-25	151	-	-	-	-	-	-	4X,4W,4VS,3PS,3O,3N
44756	May-07 - Sep-03	120	-	-	-	-	-	-	4W,4X,4VS,3PS,3O
44765	Jan-01 - Feb-23	54	-	X	X	-	-	-	6G,6H
44775	Jan-01 - Aug-02	214	X	X	X	-	-	-	4W,4VS,3O,3N,3M,6H
44776	Jan-01 - Mar-22	81	X	X	X	-	-	-	3N,3M,3K
44778	Jan-01 - Mar-08	67	X	X	X	-	-	-	4VS,6G,6H,3N,3M
44916	Jun-01 - Jun-02	2	X	X	-	-	-	-	6H
47555	Jan-01 - Jan-10	10	-	X	-	-	-	-	0A,1B,1C
47556	Sep-17 - Dec 31	106	-	X	-	-	-	-	4X,0A
48525	Feb-24 - Feb-26	3	-	X	X	-	-	-	4X
48581	Jan-01 - Jun-07	158	-	X	X	-	-	-	0A,1A,1B,1C,0B,2G
48584	Aug-11 - Sep-11	31	-	X	-	-	-	-	6B
52526	Mar-09 - Mar-12	3	-	X	-	-	-	-	4X
52527	Mar-09 - Mar-12	3	-	X	-	-	-	-	4X
52528	Mar-12 - Mar-14	2	X	X	-	-	-	-	4X
52529	Mar-10 - Mar-12	3	X	X	-	-	-	-	4X
52532	Mar-13 - Mar-14	1	-	X	-	-	-	-	4X
52539	Aug-28 - Sep-06	9	-	X	-	-	-	-	6B
52640	Aug-16 - Aug-23	8	-	X	-	-	-	-	6C
52643	Feb-07 - Feb-13	6	-	X	-	X	X	-	4X
61542	Jan-19 - Apr-02	74	X	X	-	-	-	-	5ZW
61543	Jan-19 - Apr-02	74	X	X	-	-	-	-	5ZW
61544	Jan-16 - Jan-24	9	X	X	-	-	-	-	5ZW
61545	Jan-16 - Jan-24	9	X	X	-	-	-	-	5ZW
62761	Jul-19 - Jul-19	1	-	-	-	-	-	-	4X
62762	Jul-18 - Jul-19	1	X	X	-	-	-	X	4X
64548	Apr-03 - Apr-03	1	X	X	X	-	-	-	1E
64549	Nov-02 - Nov-02	1	X	X	X	-	-	-	1F
64699	Jan-01 - Mar-02	61	X	X	X	-	-	-	2H,2J,1F
65581	Nov-09 - Nov-09	1	X	X	X	-	-	-	2G
65595	Mar-19 - Apr-25	38	X	X	X	-	-	-	1F
65601	Aug-20 - Aug-21	1	-	X	-	-	-	-	1F
65662	Jan-02 - Dec 09	342	-	X	X	-	-	-	1F,1E,0B,1D
65663	Jan-01 - Apr-29	119	X	X	X	-	-	-	1F,4S
74536	Jul-31 - Aug-16	17	-	X	-	-	-	-	5ZW

Table 6a Current meter data recovered in the NAFO Area in 2001.

The following instruments have been recovered

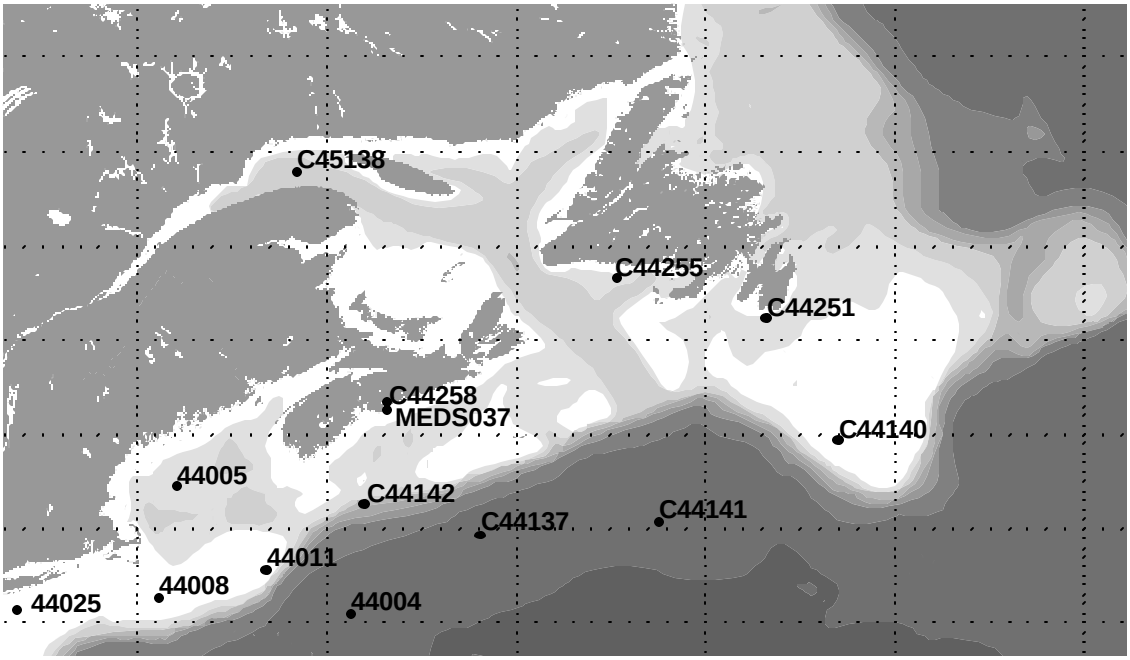
Latitude (N)	Longitude (W)	Sounding Depth (meters)	Instrument Depth (meters)	Start Date	End Date	Mooring Number
42.8497	61.6147	1113	138	Nov 21, 2000	May 31, 2001	1377
"	"	"	288	"	"	"
"	"	"	563	"	"	"
"	"	"	813	"	"	"
'	"	"	1089	"	"	"
42.8316	61.6516	1170	335	May 31, 2001	Oct. 20, 2001	1387
"	"	"	610	"	"	"
"	"	"	860	"	"	"
"	"	"	1145	"	"	"
42.6885	61.5506	1978	528	June 1, 2001	Oct. 20, 2001	1388
"	"	"	778	"	"	"
"	"	"	1036	"	"	"
"	"	"	1578	"	"	"
"	"	"	1954	"	"	"
45.1867	66.0023	38	37	Sept. 20, 2001	Nov. 6, 2001	1408
45.2117	66.0108	14.8	13.8	Sept. 20, 2001	Nov. 6, 2001	1409
46.1580	60.4721	255	14	May 10, 2001	Oct. 25, 2001	1392
"	"	"	55	"	"	"
"	"	"	105	"	"	"
"	"	"	255	"	"	"
45.9145	60.8436	64	14	May 9, 2001	Oct. 25, 2001	1393
"	"	"	30	"	"	"
"	"	"	55	"	"	"
"	"	"	64	"	"	"
46.2095	63.7568	21.4	20.4	Dec. 15, 2000	May 2, 2001	1382
46.2065	63.7593	21.4	20	Dec. 15, 2000	May 2, 2001	1383
44.2912	63.239	156	89	Mar 30, 2001	May 1, 2001	1389
46.1502	60.2151	13	12	Oct. 3, 2000	May 7, 2001	1369
74.112	90.9991	185	171	Aug. 13, 2000	Sept 24, 2001	1354
74.1180	90.9641	191	80	Aug. 13, 2000	Sept 24, 2001	1355
74.5449	90.3975	181	161	Aug. 13, 2000	Aug 27, 2001	1358
74.5351	90.4478	205	84	Aug. 13, 2000	Aug 27, 2001	1359
42.8316	61.6516	1176	235	May 29, 2001	May 31, 2001	1387
42.6885	61.5506	1978	378	June 1, 2001	Oct. 20, 2001	1388

Table 6b Current meter data deployed in the NAFO Area in 2001.

The following instruments are still deployed

Latitude (N)	Longitude (W)	Instrument Depth	Start Date	Mooring Number
55.1205	54.1238	1007 meters	June 10, 2001	
42.6885	61.5509	536 meters	Oct. 21, 2001	1412
"	"	786 meters	"	"
"	"	1071 meters	"	"
"	"	1587 meters	"	"
"	"	1962 meters	"	"
42.9822	61.7498	313 meters	Oct. 19, 2001	1413
42.9848	61.7480	131 meters	Oct. 19, 2001	1414
"	"	206 meters	"	"
"	"	281 meters	"	"
"	"	296 meters	"	"
42.8479	61.6278	315 meters	Oct. 21, 2001	1419
"	"	590 meters	"	"
"	"	840 meters	"	"
"	"	1125 meters	"	"
46.1572	60.4711	19 meters	Oct. 26, 2001	1416
"	"	60 meters	"	"
"	"	110 meters	"	"
45.9131	60.8460	13 meters	Oct. 25, 2001	1417
"	"	29 meters	"	"
"	"	52 meters	"	"
46.0922	60.6813	66 meters	Oct. 24, 2001	1418

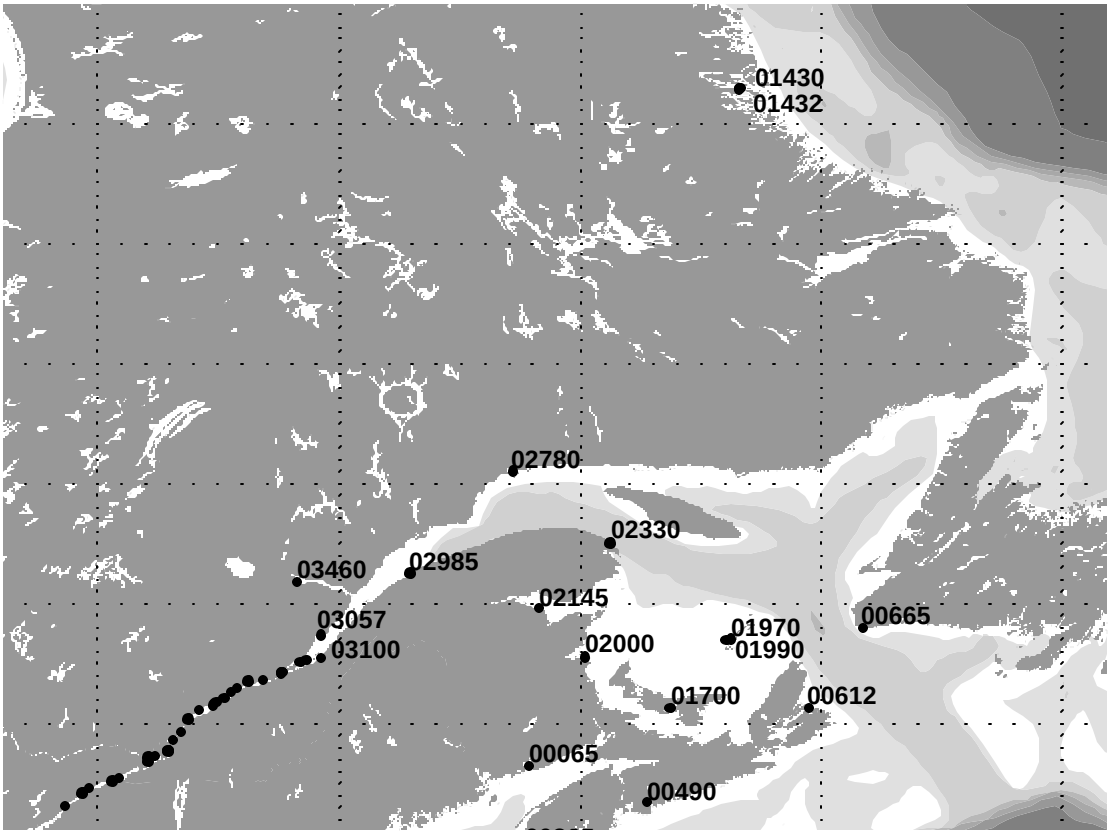
Table 7 Wave Buoys in the NAFO Area in 2001.



TOTAL SPECTRA = 92747

STATION	STATION NAME	LATITUDE	LONGITUDE	WATER DEPTH (m)	#OF GOOD SPECTRA	NAFO SUBAREA
44004	Hotel	40.150	64.333	3164.0	8107	4X
44005	Gulf of Maine	42.883	68.933	27.0	7138	5Y
44008	Nantucket	40.500	69.433	63.0	6265	5Ze
44009	Delaware Bay	38.450	74.700	28.0	8402	6B
44011	Georges Bank	41.083	66.583	86.0	7941	5Ze
44025	Long Island	40.250	73.167	40.0	7977	6A
C44137	East Scotian Slope	41.832	60.940	4500.0	6539	4W
C44140	Tail of the Bank	43.837	51.493	70.0	4209	3O
C44141	Laurentian Fan	42.102	56.223	4500.0	7494	4Vs
C44142	La Have Bank	42.497	64.017	1300.0	4383	4X
C44251	Nickerson Bank	46.440	53.390	69.0	7318	3L
C44255	NE Burgeo Bank	47.282	57.352	185.0	3479	3Ps
C44258	Halifax Harbour	44.500	63.400	58.0	1887	4W
C45138	Mont Louis	49.543	65.773	335.0	4201	4S
MEDS037	Osbourne Head	44.656	63.416	57.0	7407	4W

Table 8 Tide and water level data in the NAFO Area in 2001.



TOTAL = 46 Stations

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	15-MINUTE HEIGHTS # OF DAYS	HOURLY HEIGHTS # OF DAYS
00065	SAINT JOHN	45.27	66.06	365	365
00365	YARMOUTH	43.84	66.12	365	365
00490	HALIFAX	44.66	63.59	365	365
00612	NORTH SYDNEY	46.22	60.25	362	362
00665	PORT AUX BASQUES	47.57	59.14	365	365
00835	ARGENTIA	47.30	53.98	365	354
00905	ST. JOHN'S	47.56	52.71	365	365
01430	NAIN	56.54	61.69	31	31
01432	NAIN # 2	56.55	61.68	31	31
01700	CHARLOTTETOWN	46.23	63.12	365	365
01970	CAP-AUX-MEULES	47.38	61.87	44	44
01990	ETANG-DU-NORD	47.37	61.97	23	23
02000	LOWER ESCUMINAC	47.08	64.89	345	344
02145	BELLEDUNE	47.90	65.85	365	365
02330	RIVIERE-AU-RENARD	48.98	64.37	32	32
02780	SEPT-ILES	50.18	66.37	365	365
02985	RIMOUSKI	48.48	68.52	365	365
03057	SAINT-JOSEPH-DE-LA-RIVE	47.45	70.37	365	365
03100	SAINT-FRANCOIS	47.00	70.81	365	365
03180	ILE-AUX-GRUES	47.05	70.37	138	138
03190	GROSSE ISLE	47.02	70.67	157	157
03246	ST. CHARLES RIVER	46.82	71.20	365	365

	BASIN				
03250	QUEBEC (LAUZON)	46.83	71.17	365	365
03280	NEUVILLE	46.70	71.57	365	365
03300	PORTNEUF	46.68	71.88	365	365
03335	CAP A LA ROCHE	46.56	72.11	365	365
03345	BATISCAN	46.50	72.25	365	365
03353	BECANCOUR	46.40	72.38	365	365
03360	TROIS-RIVIERES	46.34	72.54	365	365
03365	PORT-SAINT-FRANCOIS	46.27	72.62	129	129
03460	PORT-ALFRED	48.33	70.87	68	68
14400	BROCKVILLE	44.59	75.68	365	365
14600	IROQUOIS ABOVE	44.82	75.32	365	365
14602	IROQUOIS BELOW	44.84	75.31	365	365
14660	MORRISBURG	44.90	75.18	365	365
14870	CORNWALL	45.02	74.71	365	365
14940	SUMMERSTOWN	45.06	74.55	365	365
15220	POINTE-DES-CASCADES	45.34	73.95		365
15330	POINTE-CLAIRE	45.43	73.82		365
15520	MONTREAL JETTY	45.50	73.55	365	365
15540	MONTREAL STREET	45.53	73.54	365	365
15660	VARENNES	45.68	73.44	361	360
15780	CONTRECOEUR IRON ORE	45.83	73.28	365	365
15930	SOREL	46.05	73.12	365	365
15975	LAC SAINT-PIERRE	46.19	72.90	360	360
16005	SAINTE-ANNE-DE-BELLEVUE	45.41	73.96		365