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Marine Environmental Data Service Report for 2003

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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 2003 are included. This report will also provide an update on developments to the ARGO program and the Atlantic Zone Monitoring Program web site.

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 2004 required the submission to MEDS of a completed oceanographic inventory form for data collected in 2003, and oceanographic data pertinent to the NAFO area, for all stations occupied in the year prior to 2003. 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 services@meds-sdmm.dfo-mpo.gc.ca, by completing an on-line order form on the MEDS web site 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 2000m 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.

During 2003, Canada deployed 31 floats including 16 in the North Atlantic.

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/MEDS. Graphical representations of biological data (phytoplankton) are currently being displayed on the web site.

Recent additions to the web site during 2003 include bottom temperature data, Zooplankton graphs, Labrador Current Volume Transport index and 20 year average sea surface temperatures (see Fig. 2.).

Data Summaries for 2003

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 chemical 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 data processing activities in 2003 for the NAFO area:

- **Table 1, Fig. 3. Real-time temperature-salinity profile data collected and processed in 2003**
9 303 profiles
- **Table 2, Fig. 4. Surface Thermosalinograph data collected and processed in 2003**
592 stations
- **Table 3, Fig. 5. Delayed-mode profile data collected and processed in 2003**
5 891 profiles
- **Table 4, Fig. 6. Profile data collected prior to 2003 and processed during the past year**
13 796 profiles

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 variables, are 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 2003 for the NAFO area:

- **Table 5, Fig 7. Drifting Buoys in the NAFO Area in 2003. TOTAL = 75 001 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 Asheville SST Climatology (2.5 x 2.5 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 2003 in the NAFO area:

- **Table 6a Current meter data recovered in the NAFO Area in 2003**
- **Table 6b Current meters deployed in the NAFO Area in 2003**

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: www.maritimes.dfo.ca/science/ocean/welcome.html

Wave Data

The following map displays where MEDS wave data was collected from in 2003:

- **Figure 8 Wave Buoys in the NAFO Area in 2003 TOTAL = 8 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 map displays where MEDS tide and water level data was collected from:

- **Figure 9 Tide and water level data in the NAFO Area in 2003 TOTAL = 28 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 and 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, 9 p. Printed and distributed by: NAFO, P.O. Box 638, Dartmouth, Nova Scotia, Canada B2Y 3Y9.

Table 1: Real-Time temperature-salinity profile data received during 2003.

Total = 9303 stations

Ship Name	Country	Call Sign	Cruise Period	BATHY	TESAC	NAFO Subarea
P-ALACE	USA	41541 03	Sep-04 - Sep-04	0	1	6C
			Sep-15 - Sep-15	0	1	6D
			Sep-25 - Sep-25	0	1	6E
			Apr-08 - Apr-08	0	1	6C
			Apr-19 - Apr-19	0	1	6F
			Apr-30 - Apr-30	0	1	6F
			Jan-01 - Jan-01	0	1	6H
			Jan-12 - Jan-12	0	1	3M
			Jan-22 - Jan-22	0	1	3M
			Feb-02 - Feb-02	0	1	3M
			Feb-12 - Feb-12	0	1	3M
			Feb-23 - Feb-23	0	1	3M
			Mar-06 - Mar-06	0	1	3M
			Jan-30 - Jan-30	0	1	6E
			Feb-10 - Feb-10	0	1	6E
			Jan-06 - Jan-06	0	1	6F
			Jan-17 - Jan-17	0	1	6F
			Jan-27 - Jan-27	0	1	6F
			Feb-07 - Feb-07	0	1	6F
			Feb-17 - Feb-17	0	1	6F
			Feb-28 - Feb-28	0	1	6F
			Mar-11 - Mar-11	0	1	6F
			Mar-21 - Mar-21	0	1	6F
			Jun-14 - Jun-14	0	1	6E
			Jun-25 - Jun-25	0	1	6E
			Jul-06 - Jul-06	0	1	6E
DISCUS 3	USA	44027 03	Jun-10 - Jun-14	0	97	5Y
			Aug-15 - Dec 31	0	3281	5Y
PROFILE FLOAT	UK	49064 03	Jan-10 - Jan-11	0	2	2G
			Jan-20 - Jan-20	0	1	1F

			Jan-31 - Jan-31	0	1	1E
			Feb-09 - Feb-09	0	1	1E
			Feb-20 - Feb-20	0	1	1E
			Mar-02 - Mar-02	0	1	1E
			Mar-12 - Mar-12	0	1	1E
			Mar-21 - Mar-21	0	1	1E
			Mar-31 - Apr-01	0	2	1D
			Apr-10 - Apr-10	0	1	1D
			Apr-20 - Apr-21	0	2	1E
			Apr-30 - May-01	0	2	1E
			May-10 - May-10	0	1	1E
			May-20 - May-21	0	2	1E
			May-30 - May-30	0	1	1E
			Jun-09 - Jun-09	0	1	1E
			Jun-19 - Jun-19	0	2	1E
			Jun-29 - Jun-29	0	1	1E
			Jan-10 - Jan-11	0	2	2G
			Jan-20 - Jan-20	0	1	2H
			Jan-30 - Jan-30	0	1	2H
			Feb-09 - Feb-09	0	1	2H
			Feb-19 - Feb-19	0	1	2H
			Mar-01 - Mar-01	0	1	2H
			Mar-11 - Mar-11	0	1	2H
			Mar-21 - Mar-21	0	1	2H
			Mar-31 - Apr-01	0	2	2H
			Apr-10 - Apr-10	0	1	2H
			Apr-20 - Apr-21	0	2	2H
			Apr-30 - May-01	0	2	2H
			May-10 - May-10	0	1	2H
			May-20 - May-21	0	2	2H
			May-30 - May-30	0	2	1F
			Jun-09 - Jun-09	0	1	1F
			Jun-19 - Jun-19	0	1	1F
			Jun-29 - Jun-29	0	1	1F
			Jul-09 - Jul-10	0	2	1F
			Jul-19 - Jul-19	0	1	1F
			Jul-29 - Jul-30	0	7	1F
			Aug-08 - Aug-08	0	1	1F
			Aug-18 - Aug-18	0	1	1F
			Aug-28 - Aug-29	0	2	1F
			Sep-07 - Sep-07	0	1	1F
			Sep-17 - Sep-17	0	1	1F
			Sep-27 - Sep-28	0	2	1F
			Oct-07 - Oct-07	0	1	1F
			Oct-17 - Oct-18	0	2	1F
			Oct-27 - Oct-27	0	1	1F
			Nov-06 - Nov-06	0	1	1F
			Nov-16 - Nov-16	0	1	1F
			Nov-26 - Nov-26	0	1	1F

			Dec 07 - Dec 07	0	1	1F
			Dec 16 - Dec 17	0	2	1F
			Jan-20 - Jan-20	0	1	1F
			Feb-10 - Feb-10	0	1	1F
			Feb-19 - Feb-19	0	1	1F
			Mar-01 - Mar-01	0	1	1F
			Mar-11 - Mar-11	0	1	1F
			Mar-21 - Mar-21	0	1	1F
			Apr-01 - Apr-01	0	1	1F
			Apr-10 - Apr-10	0	1	1F
			Apr-20 - Apr-20	0	1	1F
			Apr-30 - May-01	0	2	1F
			May-10 - May-10	0	1	1F
			May-20 - May-20	0	1	1F
			May-30 - May-30	0	1	1F
			Jun-09 - Jun-09	0	1	1F
			Jun-19 - Jun-19	0	1	1F
			Jun-29 - Jun-29	0	1	1F
			Jul-09 - Jul-09	0	1	1F
			Jul-19 - Jul-19	0	1	2G
			Jul-29 - Jul-29	0	1	2G
			Aug-08 - Aug-08	0	1	2H
			Aug-18 - Aug-18	0	1	2G
			Aug-28 - Aug-28	0	1	2G
			Sep-07 - Sep-07	0	1	2G
			Sep-17 - Sep-17	0	1	1F
			Sep-27 - Sep-27	0	1	2H
			Oct-07 - Oct-07	0	1	2H
			Oct-17 - Oct-17	0	1	1F
			Oct-27 - Oct-27	0	1	1F
			Nov-06 - Nov-06	0	1	1F
			Nov-17 - Nov-17	0	1	1F
			Nov-26 - Nov-26	0	1	1F
			Dec 07 - Dec 07	0	1	1F
GLOBAL BRAZIL	MALTA	9HZJ5 03	Oct-08 - Oct-10	12	0	4VS 6H
UNKNOWN	CANADA	CCG206 03	Jan-13 - Jan-13	0	1	3L
			Feb-10 - Feb-10	0	1	3L
			Apr-09 - Apr-09	0	1	3L
			Sep-03 - Sep-03	0	1	3L
			Sep-16 - Sep-16	0	1	3L
OPILIO	CANADA	CFD2576 03	May-29 - May-29	0	1	4T
PANDALUS	CANADA	CFD4703 03	Jan-03 - Jan-03	0	1	4X
			Jan-16 - Jan-16	0	1	4X
			Feb-14 - Feb-14	0	1	4X
			Feb-28 - Feb-28	0	1	4X
			Mar-14 - Mar-14	0	1	4X
			Mar-31 - Mar-31	0	1	4X
			May-01 - May-01	0	1	4X
			May-15 - May-15	0	1	4X

			May-28 - May-28	0	1	4X
			Jun-13 - Jun-13	0	1	4X
			Jun-27 - Jun-27	0	1	4X
			Jul-14 - Jul-14	0	1	4X
			Aug-14 - Aug-14	0	1	4X
			Sep-15 - Sep-15	0	1	4X
			Oct-01 - Oct-01	0	1	4X
			Oct-14 - Oct-14	0	1	4X
			Nov-18 - Nov-18	0	1	4X
			Dec 19 - Dec 19	0	1	4X
SPRAY	CANADA	CG2248 03	May-22 - May-22	0	1	4T
			Oct-08 - Oct-08	0	1	4T
			Nov-07 - Nov-07	0	1	4T
SAMBRO	CANADA	CG2613 03	Jan-15 - Jan-15	0	1	4W
			Aug-13 - Aug-13	0	1	4W
			Sep-03 - Sep-03	0	1	4W
			Sep-16 - Sep-16	0	1	4W
SHAMOOK	CANADA	CG2676 03	Jan-13 - Jan-22	0	18	3L
			Apr-07 - Apr-17	0	6	3PS
			Apr-28 - May-11	24	5	3PS
			May-16 - Jun-09	0	25	3L
			Jun-16 - Jul-05	1	48	3L 3PS
			Jul-11 - Aug-23	0	67	3K 3L
			Sep-10 - Sep-27	0	44	3L
			Oct-05 - Nov-01	0	58	3L
			Nov-11 - Dec 07	11	50	3L 3PS
ALFRED NEEDLER	CANADA	CG2683 03	Feb-17 - Feb-27	0	36	4W 5ZE
			Mar-04 - Mar-20	0	105	4VS 4W
			Jun-26 - Jun-26	0	4	4W
			Jul-02 - Jul-31	0	216	4VN 4VS 4W 4X 5Y
			Aug-13 - Aug-29	0	99	4R 4S 4T
BELUGA	CANADA	CG3161 03	May-14 - May-14	0	1	4T
			May-28 - May-28	0	1	4T
			Jun-12 - Jun-12	0	1	4T
			Jun-19 - Jun-19	0	1	4T
			Jun-26 - Jun-26	0	1	4T
			Jul-03 - Jul-03	0	1	4T
			Jul-10 - Jul-10	0	1	4T
			Jul-16 - Jul-16	0	1	4T
			Jul-24 - Jul-24	0	1	4T
			Jul-30 - Jul-30	0	1	4T
			Aug-12 - Aug-12	0	2	4T
			Aug-21 - Aug-21	0	1	4T
			Sep-03 - Sep-03	0	1	4T
			Sep-16 - Sep-16	0	1	4T
			Oct-02 - Oct-02	0	1	4T
			Oct-14 - Oct-14	0	1	4T
			Nov-18 - Nov-18	0	1	4T
NSC CALANUS II	CANADA	CG3187 03	May-03 - May-05	0	2	4S

			Aug-25 - Sep-14	0	70	4S 4T
F.G. CREED	CANADA	CG3198 03	Aug-25 - Aug-30	0	28	4S
TORONTO	CANADA	CGAD 03	Nov-23 - Nov-25	2	0	6B 6C
TRACY	CANADA	CGBX 03	Jul-23 - Jul-23	0	2	4S 4T
TELEOST	CANADA	CGCB 03	Jan-03 - Jan-27	15	98	2J 3K 3L
			Apr-08 - May-26	76	242	3K 3L 3M 3N 3O 3PS
			May-31 - Jun-23	29	46	2J 3K 3L
			Jul-21 - Aug-06	0	124	2G 2H 2J 3K 3L 3M
			Sep-20 - Sep-27	0	31	3L 3O
			Nov-29 - Dec 19	13	113	2J 3K 3L
MARTHA L. BLACK	CANADA	CGCC 03	Mar-01 - Mar-01	0	2	4S 4T
			Oct-11 - Oct-27	0	36	1F 3K 3M 4S 4T 4VS 6G
GEORGE R. PEARKES	CANADA	CGCX 03	Sep-25 - Sep-25	0	2	4S 4T
HUDSON	CANADA	CGDG 03	Apr-12 - Apr-19	0	26	4VS 4W 4X
			Apr-24 - May-16	0	41	1F 3K 3M 4VS 4W 6G
			May-21 - May-29	0	9	4VS 4W 4X
			Jul-13 - Aug-01	0	81	1F 2H 2J 3K 3L 3PS 4VS 4W 4X
			Oct-19 - Nov-06	0	58	3PS 3PN 4R 4S 4T 4VN 4VS 4W 4X
			Nov-12 - Nov-12	0	1	4W
			Nov-19 - Dec 06	10	137	3K 3L 3M 3N 3O
			Dec 11 - Dec 22	0	35	3O 3PS 4VS 4W 4X
QUADRA	CANADA	CGDN 03	Apr-08 - Apr-08	0	2	4S 4T
			Apr-17 - Apr-24	0	46	4R 4S 4T 4VN
			Jun-08 - Jul-03	0	162	4R 4S 4T 4VN
			Oct-22 - Nov-07	0	62	4R 4S 4T 4VN
W. TEMPLEMAN	CANADA	CGDV 03	Jan-04 - Jan-16	7	40	2J 3K 3L
			Apr-01 - Jun-28	57	500	3L 3N 3O 3PS 3PN
			Jul-04 - Jul-06	0	2	3PS
			Sep-17 - Sep-28	0	81	4T
			Oct-08 - Dec 19	23	343	3K 3L 3N 3O 3PS
MONCTON	CANADA	CGJC 03	Feb-12 - Feb-13	6	0	4X
			Mar-17 - Mar-21	6	0	4X 5Y
HMCS SUMMERSIDE	CANADA	CGJJ 03	Mar-24 - Mar-26	4	0	4X 5Y
			May-27 - May-27	1	0	6A
			Jun-03 - Jun-06	5	0	4X 5ZE 6B
			Jun-12 - Jun-15	3	0	3PS 4VN
			Jun-25 - Jun-25	1	0	4VN
			Jul-03 - Jul-03	1	0	4T
ATHABASKAN	CANADA	CYWM 03	Sep-09 - Sep-09	1	0	4X
BONN EXPRESS	GERMANY	DGNB 03	Feb-21 - Feb-21	7	0	3K 3L 3M
			Apr-18 - Apr-19	12	0	3M 3N
			Apr-29 - Apr-30	12	0	3M 3N
			Jun-24 - Jun-25	9	0	3M 3N
CONTSHIP LONDON	LIBERIA	ELVX4 03	Mar-25 - Mar-27	7	0	3M 3N 4VS 4W 5ZE
			Jun-17 - Jun-18	4	0	3N 4VS

			Sep-10 - Sep-10	1	0	4W
			Dec 04 - Dec 05	3	0	4VS 4X
CAP SAN ANTONIO	LIBERIA	ELZU6 03	Oct-18 - Oct-18	4	0	6B 6D
			Nov-30 - Nov-30	5	0	6B 6C 6D
SEALAND PATRIOT	USA	KHRF 03	Sep-03 - Sep-03	1	0	6C
			Oct-21 - Oct-21	1	0	6D
			Dec 08 - Dec 10	11	0	6A 6B 6D 6E
SEALAND HAWAII	USA	KIRF 03	Jan-25 - Jan-25	1	0	6B
			Feb-08 - Feb-09	2	0	6B 6C
			Mar-20 - Mar-21	3	0	6B 6C
			Apr-03 - Apr-04	3	0	6B 6C
			Apr-17 - Apr-17	1	0	6C
			Apr-30 - May-02	3	0	6B 6C
			May-25 - May-25	1	0	6B
			May-31 - May-31	1	0	6C
			Jun-12 - Jun-14	3	0	6B 6C
			Jun-26 - Jun-26	2	0	6B 6C
			Jul-10 - Jul-11	3	0	6B 6C
			Jul-17 - Jul-17	1	0	6C
			Jul-26 - Jul-26	1	0	6B
			Aug-05 - Aug-05	2	0	6B 6C
			Aug-22 - Aug-22	2	0	6B 6C
			Sep-04 - Sep-06	5	0	6B 6C
			Sep-18 - Sep-19	4	0	6B 6C
			Oct-02 - Oct-05	4	0	6C
		NAAJ 03	Aug-14 - Aug-14	1	0	6C
USS DEYO	USA	NEWZ 03	May-16 - May-17	7	0	6E 6F 6G
USS MITSCHER	USA	NMTR 03	May-15 - May-16	2	0	6G 6H
USS THE SULLIVANS	USA	NSUL 03	Aug-25 - Aug-25	1	0	3M
OLEANDER	NETHERLAND	PJJU 03	Jan-09 - Jan-11	23	0	6A 6B 6D
			Mar-14 - Mar-15	10	0	6A 6B 6D
			Apr-04 - Apr-05	10	0	6A 6B
			May-02 - May-03	13	0	6A 6B
			Jun-06 - Jun-10	20	0	6A 6B 6D
			Jul-11 - Jul-12	14	0	6A 6B
			Aug-01 - Aug-06	18	0	6A 6B 6D
			Sep-05 - Sep-07	25	0	6A 6B 6D
			Oct-03 - Oct-04	20	0	6A 6B 6D
			Dec 11 - Dec 17	16	0	6A 6B 6D
PROFILE FLOAT	USA	Q190003903	Jan-03 - Jan-03	0	1	6H
			Jan-13 - Jan-13	0	1	6H
			Mar-04 - Mar-04	0	1	6H
			Dec 18 - Dec 18	0	1	5ZW
			Nov-11 - Nov-11	0	1	5ZW
			Jan-01 - Jan-01	0	1	1F
			Jan-11 - Jan-11	0	1	1F
			Jan-21 - Jan-21	0	1	1F
			Jan-31 - Jan-31	0	1	2H

			Feb-10 - Feb-10	0	1	2J
			Feb-20 - Feb-20	0	1	2J
			Mar-02 - Mar-02	0	1	2J
			Mar-12 - Mar-12	0	1	2H
			Mar-22 - Mar-22	0	1	2H
			Apr-01 - Apr-01	0	1	1F
			Apr-11 - Apr-11	0	1	2H
			Apr-21 - Apr-21	0	1	1F
			May-01 - May-01	0	1	1F
			May-11 - May-11	0	1	1F
			May-21 - May-21	0	1	1F
			May-31 - May-31	0	1	1F
			Jun-10 - Jun-10	0	1	1F
			Jun-20 - Jun-20	0	1	1F
			Jun-30 - Jun-30	0	1	1F
			Jul-10 - Jul-10	0	1	1F
			Jul-20 - Jul-20	0	1	1F
			Jul-30 - Jul-30	0	1	1F
			Aug-09 - Aug-09	0	1	1F
			Aug-19 - Aug-19	0	1	1F
			Aug-29 - Aug-29	0	1	1F
			Sep-08 - Sep-08	0	1	1F
			Sep-18 - Sep-18	0	1	1F
			Sep-28 - Sep-28	0	1	1F
			Oct-08 - Oct-08	0	1	1F
			Oct-18 - Oct-18	0	1	1F
			Oct-28 - Oct-28	0	1	1F
			Nov-07 - Nov-07	0	1	1F
			Nov-17 - Nov-17	0	1	1F
			Nov-27 - Nov-27	0	1	1F
			Dec 07 - Dec 07	0	1	1F
			Dec 17 - Dec 17	0	1	1F
			Dec 27 - Dec 27	0	1	1F
			Jan-04 - Jan-04	0	1	2H
			Jan-14 - Jan-14	0	1	2H
			Jan-24 - Jan-24	0	1	2H
			Feb-03 - Feb-03	0	1	2J
			Feb-13 - Feb-13	0	1	2J
			Feb-23 - Feb-23	0	1	2J
			Mar-05 - Mar-05	0	1	2J
			Mar-15 - Mar-15	0	1	2J
			Jan-02 - Jan-02	0	1	2J
			Jan-12 - Jan-12	0	1	2J
			Jan-22 - Jan-22	0	1	3K
			Feb-01 - Feb-01	0	1	3K
			Feb-11 - Feb-11	0	1	2J
			Feb-21 - Feb-21	0	1	2J
			Mar-03 - Mar-03	0	1	2J
			Mar-13 - Mar-13	0	1	2J

			Mar-23 - Mar-23	0	1	2J
			Apr-02 - Apr-02	0	1	2J
			Apr-12 - Apr-12	0	1	2J
			Apr-22 - Apr-22	0	1	2J
			May-02 - May-02	0	1	2J
			May-12 - May-12	0	1	3K
			May-22 - May-22	0	1	3K
			Jun-01 - Jun-01	0	1	3K
			Jun-11 - Jun-11	0	1	2J
			Jun-21 - Jun-21	0	1	2J
			Jul-01 - Jul-01	0	1	2J
			Jul-11 - Jul-11	0	1	2J
			Jul-21 - Jul-21	0	1	2J
			Jul-31 - Jul-31	0	1	2J
			Aug-10 - Aug-10	0	1	2J
			Aug-20 - Aug-20	0	1	2J
			Aug-30 - Aug-30	0	1	3K
			Sep-09 - Sep-09	0	1	3K
			Sep-19 - Sep-19	0	1	3K
			Sep-29 - Sep-29	0	1	3K
			Oct-09 - Oct-09	0	1	3K
			Oct-19 - Oct-19	0	1	3K
			Oct-29 - Oct-29	0	1	3K
			Nov-08 - Nov-08	0	1	2J
			Nov-18 - Nov-18	0	1	2J
			Nov-28 - Nov-28	0	1	2J
			Dec 08 - Dec 08	0	1	2J
			Dec 18 - Dec 18	0	1	2J
			Dec 28 - Dec 28	0	1	2J
			Jan-03 - Jan-03	0	1	5ZE
			Jan-13 - Jan-13	0	1	5ZE
			Jan-23 - Jan-23	0	1	6D
			Feb-02 - Feb-02	0	1	6D
			Feb-12 - Feb-12	0	1	6D
			Feb-22 - Feb-22	0	1	6E
			Mar-04 - Mar-04	0	1	6E
			Mar-14 - Mar-14	0	1	4W
			Mar-24 - Mar-24	0	1	4X
			Apr-03 - Apr-03	0	1	4X
			Apr-13 - Apr-13	0	1	6D
			Apr-23 - Apr-23	0	1	6D
			May-03 - May-03	0	1	6D
			May-13 - May-13	0	1	6D
			May-23 - May-23	0	1	6D
			Jun-02 - Jun-02	0	1	6D
			Jun-12 - Jun-12	0	1	6D
			Jun-22 - Jun-22	0	1	6D
			Jul-02 - Jul-02	0	1	6D
			Jul-12 - Jul-12	0	1	6E

			Jul-22 - Jul-22	0	1	4X
			Aug-01 - Aug-01	0	1	4W
			Aug-11 - Aug-11	0	1	4X
			Aug-21 - Aug-21	0	1	4W
			Aug-31 - Aug-31	0	1	6E
			Sep-10 - Sep-10	0	1	6E
			Sep-20 - Sep-20	0	1	4W
			Sep-30 - Sep-30	0	1	4W
			Oct-10 - Oct-10	0	1	4W
			Oct-20 - Oct-20	0	1	4W
			Oct-30 - Oct-30	0	1	6F
			Nov-09 - Nov-09	0	1	4VS
			Nov-19 - Nov-19	0	1	6F
			Nov-29 - Nov-29	0	1	6E
			Dec 09 - Dec 09	0	1	6E
			Dec 19 - Dec 19	0	1	6F
			Dec 29 - Dec 29	0	1	6F
			Jan-05 - Jan-05	0	1	6B
			Jan-15 - Jan-15	0	1	6B
			Jan-25 - Jan-25	0	1	6B
			Feb-04 - Feb-04	0	1	6B
			Feb-14 - Feb-14	0	1	6B
			Jan-02 - Jan-02	0	1	3PS
			Jan-12 - Jan-12	0	1	4VS
			Jan-22 - Jan-22	0	1	4VS
			Feb-01 - Feb-01	0	1	4VS
			Feb-11 - Feb-11	0	1	4VS
			Feb-21 - Feb-21	0	1	4VS
			Mar-03 - Mar-03	0	1	4VS
			Mar-13 - Mar-13	0	1	4VS
			Mar-23 - Mar-23	0	1	4VS
			Apr-02 - Apr-02	0	1	4VS
			Apr-12 - Apr-12	0	1	4VS
			Apr-22 - Apr-22	0	1	4VS
			May-02 - May-02	0	1	4VS
			May-12 - May-12	0	1	4VS
			May-22 - May-22	0	1	4VS
			Jun-01 - Jun-01	0	1	4VS
			Jun-11 - Jun-11	0	1	4VS
			Jun-21 - Jun-21	0	1	4VS
			Jul-01 - Jul-01	0	1	4VS
			Jul-11 - Jul-11	0	1	4VS
			Jul-21 - Jul-21	0	1	4VS
			Jul-31 - Jul-31	0	1	4W
			Aug-10 - Aug-10	0	1	4VS
			Aug-20 - Aug-20	0	1	4VS
			Aug-30 - Aug-30	0	1	4VS
			Sep-09 - Sep-09	0	1	4VS
			Sep-19 - Sep-19	0	1	4VS

			Sep-29 - Sep-29	0	1	4VS
			Oct-09 - Oct-09	0	1	4VS
			Oct-19 - Oct-19	0	1	4VS
			Oct-29 - Oct-29	0	1	4VS
			Nov-08 - Nov-08	0	1	4VS
			Nov-18 - Nov-18	0	1	4VS
			Nov-28 - Nov-28	0	1	4VS
			Dec 08 - Dec 08	0	1	4VS
			Dec 18 - Dec 18	0	1	4VS
			Dec 28 - Dec 28	0	1	4VS
			Sep-13 - Sep-13	0	1	6G
			Sep-23 - Sep-23	0	1	6G
			Oct-03 - Oct-03	0	1	6F
			Oct-13 - Oct-13	0	1	6F
			Oct-23 - Oct-23	0	1	6G
			Nov-12 - Nov-12	0	1	6G
			Nov-22 - Nov-22	0	1	6G
			Dec 02 - Dec 02	0	1	6G
			Dec 12 - Dec 12	0	1	6G
			Dec 22 - Dec 22	0	1	6G
			May-12 - May-12	0	1	6C
			May-22 - May-22	0	1	6C
			Jun-01 - Jun-01	0	1	6C
			Jun-11 - Jun-11	0	1	6D
			Jun-21 - Jun-21	0	1	6D
			Jul-01 - Jul-01	0	1	6E
			Jul-21 - Jul-21	0	1	6F
			Jul-31 - Jul-31	0	1	6E
			Aug-21 - Aug-21	0	1	6F
			Aug-31 - Aug-31	0	1	6F
			Sep-10 - Sep-10	0	1	6F
			Sep-20 - Sep-20	0	1	6F
			Sep-30 - Sep-30	0	1	6F
			Oct-10 - Oct-10	0	1	6F
			Oct-20 - Oct-20	0	1	6F
			Oct-30 - Oct-30	0	1	6F
			Nov-09 - Nov-09	0	1	6E
			Nov-29 - Nov-29	0	1	6E
			Dec 09 - Dec 09	0	1	6E
			Dec 19 - Dec 19	0	1	6F
			Dec 29 - Dec 29	0	1	6F
			Jan-03 - Jan-03	0	1	3M
			Jan-13 - Jan-13	0	1	3M
			Jan-23 - Jan-23	0	1	3M
			Feb-02 - Feb-02	0	1	3M
			Feb-12 - Feb-12	0	1	3N
			Feb-22 - Feb-22	0	1	3M
			Mar-04 - Mar-04	0	1	3M
			Mar-14 - Mar-14	0	1	3M

			Mar-24 - Mar-24	0	1	6H
			Apr-03 - Apr-03	0	1	6H
			Apr-13 - Apr-13	0	1	6H
			Apr-23 - Apr-23	0	1	6H
			May-03 - May-03	0	1	6G
			May-13 - May-13	0	1	6G
			May-23 - May-23	0	1	6G
			Jun-02 - Jun-02	0	1	6G
			Jun-12 - Jun-12	0	1	6G
			Jun-22 - Jun-22	0	1	6G
			Jul-03 - Jul-03	0	1	6G
			Jan-04 - Jan-04	0	1	6A
			Jan-15 - Jan-15	0	1	6A
			Jan-25 - Jan-25	0	1	6A
			Feb-03 - Feb-03	0	1	6A
			Feb-13 - Feb-13	0	1	6A
			Feb-24 - Feb-24	0	1	6A
			Mar-06 - Mar-06	0	1	6A
			Mar-16 - Mar-16	0	1	6A
			Mar-26 - Mar-26	0	1	6A
			Apr-05 - Apr-05	0	1	6A
			Apr-15 - Apr-15	0	1	6A
			Apr-25 - Apr-25	0	1	6B
			May-05 - May-05	0	1	6B
			May-16 - May-16	0	1	3M
			May-25 - May-25	0	1	3M
			Jun-05 - Jun-05	0	1	3N
			Jun-14 - Jun-14	0	1	3N
			Jun-25 - Jun-25	0	1	3M
			Jul-05 - Jul-05	0	1	3M
			Jul-14 - Jul-14	0	1	3M
			Jul-25 - Jul-25	0	1	3M
			Aug-03 - Aug-03	0	1	3M
			Aug-13 - Aug-13	0	1	3M
			Aug-23 - Aug-23	0	1	3M
			Sep-03 - Sep-03	0	1	3M
			Sep-12 - Sep-12	0	1	3M
			Sep-23 - Sep-23	0	1	3M
			Oct-02 - Oct-02	0	1	3M
			Oct-13 - Oct-13	0	1	3M
			Oct-23 - Oct-23	0	1	3M
			Nov-02 - Nov-02	0	1	3M
			Nov-11 - Nov-11	0	1	3M
			Dec 21 - Dec 21	0	1	3M
			Jan-10 - Jan-10	0	1	3M
			Jan-20 - Jan-20	0	1	3M
			Feb-09 - Feb-09	0	1	3M
			Feb-19 - Feb-19	0	1	3M
			Mar-01 - Mar-01	0	1	3M

			Mar-11 - Mar-11	0	1	3M
			Jan-02 - Jan-02	0	1	4VS
			Jan-12 - Jan-12	0	1	4VS
			Jan-22 - Jan-22	0	1	4VS
			Feb-11 - Feb-11	0	1	4VS
			Feb-21 - Feb-21	0	1	4VS
			Mar-03 - Mar-03	0	1	4VS
			Mar-13 - Mar-13	0	1	4VS
			Mar-23 - Mar-23	0	1	4W
			Apr-02 - Apr-02	0	1	4W
			Apr-12 - Apr-12	0	1	4W
			Apr-22 - Apr-22	0	1	4W
			May-02 - May-02	0	1	4W
			May-12 - May-12	0	1	4W
			May-22 - May-22	0	1	4W
			Jun-01 - Jun-01	0	1	4W
			Jun-11 - Jun-11	0	1	4W
			Jun-21 - Jun-21	0	1	4W
			Jul-22 - Jul-22	0	1	1F
			Aug-01 - Aug-01	0	1	1F
			Aug-11 - Aug-11	0	1	1F
			Aug-21 - Aug-21	0	1	1E
			Aug-31 - Aug-31	0	1	1E
			Sep-10 - Sep-10	0	1	1E
			Sep-20 - Sep-20	0	1	1E
			Sep-30 - Sep-30	0	1	1E
			Oct-10 - Oct-10	0	1	1E
			Oct-20 - Oct-20	0	1	1E
			Oct-30 - Oct-30	0	1	1E
			Nov-09 - Nov-09	0	1	1E
			Nov-19 - Nov-19	0	1	1F
			Nov-29 - Nov-29	0	1	1F
			Dec 09 - Dec 09	0	1	2G
			Dec 19 - Dec 19	0	1	2G
			Dec 29 - Dec 29	0	1	2G
			May-16 - May-16	0	1	1F
			May-26 - May-26	0	1	1F
			Jun-05 - Jun-05	0	1	1F
			Jun-25 - Jun-25	0	1	1F
			Jul-05 - Jul-05	0	1	1F
			Jul-15 - Jul-15	0	1	1F
			Jul-25 - Jul-25	0	1	1F
			Aug-04 - Aug-04	0	1	1F
			Aug-14 - Aug-14	0	1	1F
			Aug-24 - Aug-24	0	1	1F
			Sep-03 - Sep-03	0	1	1F
			Sep-13 - Sep-13	0	1	1F
			Sep-23 - Sep-23	0	1	1F
			Oct-03 - Oct-03	0	1	1F

			Oct-13 - Oct-13	0	1	1F
			Oct-23 - Oct-23	0	1	1F
			Nov-02 - Nov-02	0	1	1F
			Nov-12 - Nov-12	0	1	1F
			Nov-22 - Nov-22	0	1	1F
			Dec 02 - Dec 02	0	1	1F
			Dec 12 - Dec 12	0	1	1F
			Dec 22 - Dec 22	0	1	1F
			Jan-04 - Jan-04	0	1	4VS
			Jan-14 - Jan-14	0	1	4VS
			Jan-24 - Jan-24	0	1	4VS
			Feb-03 - Feb-03	0	1	4VS
			Feb-13 - Feb-13	0	1	4VS
			Feb-23 - Feb-23	0	1	4VS
			Mar-05 - Mar-05	0	1	4VS
			Mar-15 - Mar-15	0	1	4VS
			Mar-25 - Mar-25	0	1	4VS
			Apr-04 - Apr-04	0	1	4VS
			Apr-14 - Apr-14	0	1	4VS
			Apr-24 - Apr-24	0	1	4VS
			May-04 - May-04	0	1	4VS
			May-14 - May-14	0	1	4VS
			May-24 - May-24	0	1	4VS
			Jun-03 - Jun-03	0	1	4VS
			Jun-13 - Jun-13	0	1	4VS
			Jun-23 - Jun-23	0	1	4VS
			Jul-03 - Jul-03	0	1	4VS
			Jul-13 - Jul-13	0	1	4W
			Jul-23 - Jul-23	0	1	4W
			Aug-02 - Aug-02	0	1	4W
			Aug-12 - Aug-12	0	1	4W
			Aug-22 - Aug-22	0	1	4W
			Sep-01 - Sep-01	0	1	4W
			Sep-11 - Sep-11	0	1	4X
			Sep-21 - Sep-21	0	1	4X
			Oct-01 - Oct-01	0	1	4X
			Oct-11 - Oct-11	0	1	4X
			Oct-21 - Oct-21	0	1	5ZE
			Oct-31 - Oct-31	0	1	5ZE
			Nov-10 - Nov-10	0	1	5ZE
			Nov-20 - Nov-20	0	1	5ZE
			Nov-30 - Nov-30	0	1	5ZE
			Dec 10 - Dec 10	0	1	5ZE
			Dec 20 - Dec 20	0	1	5ZE
			Dec 30 - Dec 30	0	1	5ZE
			Sep-24 - Sep-24	0	1	6E
			Sep-23 - Sep-23	0	1	6H
			Oct-03 - Oct-03	0	1	6H
			Oct-23 - Oct-23	0	1	6H

			Jan-08 - Jan-08	0	1	3N
			Jan-18 - Jan-18	0	1	3N
			Jan-28 - Jan-28	0	1	3N
			Feb-07 - Feb-07	0	1	3N
			Feb-17 - Feb-17	0	1	6H
			Feb-27 - Feb-27	0	1	6H
			Mar-09 - Mar-09	0	1	6H
			Mar-19 - Mar-19	0	1	3N
			Mar-29 - Mar-29	0	1	3N
			Apr-08 - Apr-08	0	1	3M
			Apr-18 - Apr-18	0	1	6H
			Apr-28 - Apr-28	0	1	3N
			May-08 - May-08	0	1	3N
			May-18 - May-18	0	1	3N
			May-28 - May-28	0	1	3N
			Jun-07 - Jun-07	0	1	3N
			Jun-17 - Jun-17	0	1	3O
			Jun-27 - Jun-27	0	1	3O
			Jul-07 - Jul-07	0	1	4VS
			Jul-17 - Jul-17	0	1	3O
			Jul-27 - Jul-27	0	1	3O
			Aug-06 - Aug-06	0	1	4VS
			Aug-16 - Aug-16	0	1	4VS
			Aug-26 - Aug-26	0	1	4VS
			Sep-05 - Sep-05	0	1	4VS
			Sep-15 - Sep-15	0	1	4VS
			Sep-25 - Sep-25	0	1	4VS
			Oct-05 - Oct-05	0	1	4VS
			Oct-15 - Oct-15	0	1	4VS
			Oct-25 - Oct-25	0	1	4VS
			Nov-04 - Nov-04	0	1	4VS
			Nov-14 - Nov-14	0	1	4VS
			Nov-24 - Nov-24	0	1	4VS
			Dec 04 - Dec 04	0	1	4VS
			Dec 14 - Dec 14	0	1	6F
			Dec 24 - Dec 24	0	1	6G
			Jan-06 - Jan-06	0	1	3K
			Jan-16 - Jan-16	0	1	3K
			Jan-26 - Jan-26	0	1	3K
			Feb-05 - Feb-05	0	1	3K
			Feb-15 - Feb-15	0	1	3K
			Feb-25 - Feb-25	0	1	3K
			Mar-07 - Mar-07	0	1	3M
			Mar-17 - Mar-17	0	1	3M
			Mar-27 - Mar-27	0	1	3M
			Apr-06 - Apr-06	0	1	3M
			Apr-16 - Apr-16	0	1	3M
			Jan-09 - Jan-09	0	1	3M
			Jan-19 - Jan-19	0	1	3M

			Jan-29 - Jan-29	0	1	3N
			Feb-08 - Feb-08	0	1	3N
			Feb-18 - Feb-18	0	1	3N
			Feb-28 - Feb-28	0	1	3N
			Mar-10 - Mar-10	0	1	3N
			Mar-20 - Mar-20	0	1	3N
			Mar-30 - Mar-30	0	1	3N
			Apr-09 - Apr-09	0	1	3N
			Apr-19 - Apr-19	0	1	3N
			Apr-29 - Apr-29	0	1	3N
			May-09 - May-09	0	1	3N
			May-19 - May-19	0	1	3N
			May-29 - May-29	0	1	3N
			Jun-08 - Jun-08	0	1	3N
			Jun-18 - Jun-18	0	1	3M
			Jun-28 - Jun-28	0	1	3M
			Jul-08 - Jul-08	0	1	3M
			Jul-18 - Jul-18	0	1	3M
			Jul-28 - Jul-28	0	1	3M
			Aug-07 - Aug-07	0	1	3M
			Aug-17 - Aug-17	0	1	3M
			Aug-27 - Aug-27	0	1	3M
			Sep-06 - Sep-06	0	1	3M
			Sep-16 - Sep-16	0	1	3M
			Sep-26 - Sep-26	0	1	3M
			Oct-06 - Oct-06	0	1	3M
			Oct-16 - Oct-16	0	1	3M
			Oct-26 - Oct-26	0	1	3M
			Nov-05 - Nov-05	0	1	3M
			Dec 05 - Dec 05	0	1	3M
			Dec 25 - Dec 25	0	1	3M
			Jan-10 - Jan-10	0	1	3M
			Feb-19 - Feb-19	0	1	3K
			Mar-01 - Mar-01	0	1	3K
			Mar-11 - Mar-11	0	1	3K
			Mar-21 - Mar-21	0	1	3K
			Mar-31 - Mar-31	0	1	2J
			Apr-10 - Apr-10	0	1	3K
			Apr-20 - Apr-20	0	1	1F
			Apr-30 - Apr-30	0	1	1F
			May-10 - May-10	0	1	1F
			May-20 - May-20	0	1	2J
			May-30 - May-30	0	1	2J
			Jun-09 - Jun-09	0	1	1F
			Jun-19 - Jun-19	0	1	2J
			Jun-29 - Jun-29	0	1	2J
			Jul-09 - Jul-09	0	1	2J
			Jul-19 - Jul-19	0	1	2J
			Jul-29 - Jul-29	0	1	2J

			Aug-08 - Aug-08	0	1	2J
			Aug-18 - Aug-18	0	1	2J
			Aug-28 - Aug-28	0	1	2J
			Sep-07 - Sep-07	0	1	2J
			Sep-17 - Sep-17	0	1	2J
			Sep-27 - Sep-27	0	1	2J
			Oct-07 - Oct-07	0	1	2J
			Oct-17 - Oct-17	0	1	2J
			Oct-27 - Oct-27	0	1	2J
			Nov-06 - Nov-06	0	1	2J
			Nov-16 - Nov-16	0	1	2J
			Nov-08 - Nov-08	0	1	3M
			Nov-18 - Nov-18	0	1	3M
			Nov-28 - Nov-28	0	1	3M
			Dec 08 - Dec 08	0	1	3M
			Dec 18 - Dec 18	0	1	3M
			Dec 28 - Dec 28	0	1	3M
			Jan-02 - Jan-02	0	1	5ZE
			Jan-12 - Jan-12	0	1	5ZE
			Jan-22 - Jan-22	0	1	5ZE
			Feb-01 - Feb-01	0	1	6D
			Feb-11 - Feb-11	0	1	6D
			Feb-21 - Feb-21	0	1	6D
			Mar-03 - Mar-03	0	1	6D
			Mar-13 - Mar-13	0	1	6D
			Mar-23 - Mar-23	0	1	6B
			Apr-02 - Apr-02	0	1	6B
			Apr-12 - Apr-12	0	1	6B
			Apr-22 - Apr-22	0	1	6B
			May-02 - May-02	0	1	6B
			May-12 - May-12	0	1	6B
			May-22 - May-22	0	1	6B
			Jun-01 - Jun-01	0	1	6B
			Jun-11 - Jun-11	0	1	6B
			Jun-21 - Jun-21	0	1	6C
			Jul-11 - Jul-11	0	1	6B
			Jul-21 - Jul-21	0	1	6C
			Jul-31 - Jul-31	0	1	6C
			Aug-10 - Aug-10	0	1	6C
			Aug-20 - Aug-20	0	1	6C
			Aug-30 - Aug-30	0	1	6B
			Sep-09 - Sep-09	0	1	6D
			Sep-19 - Sep-19	0	1	6D
			Sep-29 - Sep-29	0	1	6D
			Oct-09 - Oct-09	0	1	6D
			Oct-19 - Oct-19	0	1	6D
			Oct-29 - Oct-29	0	1	6D
			Nov-08 - Nov-08	0	1	6D
			Nov-18 - Nov-18	0	1	6E

			Nov-28 - Nov-28	0	1	6E
			Dec 08 - Dec 08	0	1	6E
			Dec 18 - Dec 18	0	1	6E
			Dec 28 - Dec 28	0	1	6E
			Jan-08 - Jan-08	0	1	4X
			Jan-18 - Jan-18	0	1	4X
			Jan-28 - Jan-28	0	1	4X
			Feb-07 - Feb-07	0	1	4X
			Feb-17 - Feb-17	0	1	4X
			Feb-27 - Feb-27	0	1	4X
			Mar-09 - Mar-09	0	1	5ZE
			Mar-19 - Mar-19	0	1	5ZE
			Mar-29 - Mar-29	0	1	5ZE
			Apr-08 - Apr-08	0	1	5ZE
			Apr-18 - Apr-18	0	1	5ZE
			Apr-28 - Apr-28	0	1	5ZE
			May-08 - May-08	0	1	5ZE
			May-18 - May-18	0	1	5ZW
			May-28 - May-28	0	1	5ZW
			Jun-07 - Jun-07	0	1	5ZW
			Jun-17 - Jun-17	0	1	5ZW
			Jun-27 - Jun-27	0	1	5ZW
			Jul-07 - Jul-07	0	1	5ZW
			Jul-17 - Jul-17	0	1	6B
			Jul-27 - Jul-27	0	1	6B
			Aug-06 - Aug-06	0	1	6B
			Aug-16 - Aug-16	0	1	6B
			Aug-26 - Aug-26	0	1	6B
			Sep-05 - Sep-05	0	1	6B
			Sep-15 - Sep-15	0	1	6B
			Sep-25 - Sep-25	0	1	6B
			Oct-05 - Oct-05	0	1	6B
			Oct-15 - Oct-15	0	1	6B
			Oct-25 - Oct-25	0	1	6B
			Nov-04 - Nov-04	0	1	6B
			Nov-14 - Nov-14	0	1	6C
			Nov-24 - Nov-24	0	1	6C
			Dec 04 - Dec 04	0	1	6C
			Dec 14 - Dec 14	0	1	6C
			Dec 24 - Dec 24	0	1	6D
			Oct-27 - Oct-27	0	1	3M
			Nov-06 - Nov-06	0	1	3M
			Dec 06 - Dec 06	0	1	3M
			Dec 26 - Dec 26	0	1	3M
			Jan-01 - Jan-01	0	1	3N
			Jan-11 - Jan-11	0	1	3M
			Jan-21 - Jan-21	0	1	3M
			Jan-31 - Jan-31	0	1	3M
			Feb-10 - Feb-10	0	1	3M

			Feb-20 - Feb-20	0	1	3M
			Mar-02 - Mar-02	0	1	3M
			Mar-12 - Mar-12	0	1	3M
			Apr-11 - Apr-11	0	1	3M
			May-01 - May-01	0	1	3M
			Jun-30 - Jun-30	0	1	3M
			Jul-10 - Jul-10	0	1	3M
			Jul-20 - Jul-20	0	1	3M
			Jul-30 - Jul-30	0	1	3M
			Aug-09 - Aug-09	0	1	3M
			Aug-19 - Aug-19	0	1	3M
			Aug-29 - Aug-29	0	1	3M
			Sep-08 - Sep-08	0	1	3M
			Sep-18 - Sep-18	0	1	3M
			Nov-07 - Nov-07	0	1	3M
			Nov-17 - Nov-17	0	1	3M
			Nov-27 - Nov-27	0	1	3M
			Dec 07 - Dec 07	0	1	3M
			Jan-22 - Jan-22	0	1	3M
			Feb-01 - Feb-01	0	1	3M
			Feb-11 - Feb-11	0	1	3M
			Feb-21 - Feb-21	0	1	3M
			Mar-03 - Mar-03	0	1	3M
			Mar-13 - Mar-13	0	1	3M
			Mar-23 - Mar-23	0	1	3M
			Apr-02 - Apr-02	0	1	3M
			Apr-22 - Apr-22	0	1	3M
			May-12 - May-12	0	1	3M
			May-23 - May-23	0	1	3M
			Jun-01 - Jun-01	0	1	3M
			Jun-22 - Jun-22	0	1	3M
			Aug-10 - Aug-10	0	1	3M
			Aug-20 - Aug-20	0	1	3K
			Aug-30 - Aug-30	0	1	3K
			Sep-09 - Sep-09	0	1	3K
			Sep-19 - Sep-19	0	1	3K
			Jan-03 - Jan-03	0	1	3M
			Jan-13 - Jan-13	0	1	3M
			Jan-23 - Jan-23	0	1	3M
			Feb-02 - Feb-02	0	1	3M
			Feb-12 - Feb-12	0	1	3M
			Feb-22 - Feb-22	0	1	3M
			Mar-04 - Mar-04	0	1	3M
			Mar-14 - Mar-14	0	1	3M
			Apr-13 - Apr-13	0	1	3M
			Apr-23 - Apr-23	0	1	3M
			Oct-30 - Oct-30	0	1	3M
			Dec 29 - Dec 29	0	1	3M
			Jan-03 - Jan-03	0	1	1F

			Jan-13 - Jan-13	0	1	1F
			Jan-23 - Jan-23	0	1	1F
			Feb-02 - Feb-02	0	1	1F
			Feb-12 - Feb-12	0	1	1F
			Feb-22 - Feb-22	0	1	1F
			Mar-04 - Mar-04	0	1	1F
			Mar-14 - Mar-14	0	1	1F
			Mar-24 - Mar-24	0	1	1F
			Apr-03 - Apr-03	0	1	1F
			Apr-13 - Apr-13	0	1	1F
			Apr-23 - Apr-23	0	1	1F
			May-03 - May-03	0	1	1F
			May-13 - May-13	0	1	1F
			May-23 - May-23	0	1	1F
			Jun-02 - Jun-02	0	1	1F
			Jun-12 - Jun-12	0	1	1F
			Jun-22 - Jun-22	0	1	1F
			Jul-02 - Jul-02	0	1	1F
			Jul-12 - Jul-12	0	1	1F
			Jul-22 - Jul-22	0	1	1F
			Aug-01 - Aug-01	0	1	1F
			Aug-11 - Aug-11	0	1	1F
			Aug-21 - Aug-21	0	1	1F
			Aug-31 - Aug-31	0	1	1F
			Sep-10 - Sep-10	0	1	1F
			Sep-20 - Sep-20	0	1	1F
			Dec 29 - Dec 29	0	1	1F
			Jan-04 - Jan-04	0	1	2J
			Jan-14 - Jan-14	0	1	2J
			Jan-24 - Jan-24	0	1	2J
			Feb-03 - Feb-03	0	1	2J
			Feb-13 - Feb-13	0	1	2J
			Feb-23 - Feb-23	0	1	2J
			Mar-05 - Mar-05	0	1	2J
			Mar-15 - Mar-15	0	1	2J
			Mar-25 - Mar-25	0	1	2J
			Apr-04 - Apr-04	0	1	2J
			Apr-14 - Apr-14	0	1	2J
			Apr-24 - Apr-24	0	1	3K
			May-04 - May-04	0	1	3K
			May-14 - May-14	0	1	3K
			May-24 - May-24	0	1	3L
			Jun-03 - Jun-03	0	1	3M
			Jun-13 - Jun-13	0	1	3M
			Jun-23 - Jun-23	0	1	3M
			Jul-03 - Jul-03	0	1	3M
			Jul-13 - Jul-13	0	1	3M
			Jul-23 - Jul-23	0	1	3M
			Aug-02 - Aug-02	0	1	3M

			Aug-12 - Aug-12	0	1	3M
			Aug-22 - Aug-22	0	1	3N
			Sep-01 - Sep-01	0	1	3N
			Sep-11 - Sep-11	0	1	3N
			Sep-21 - Sep-21	0	1	3N
			Oct-01 - Oct-01	0	1	3N
			Oct-11 - Oct-11	0	1	3M
			Oct-21 - Oct-21	0	1	3M
			Oct-31 - Oct-31	0	1	3M
			Nov-10 - Nov-10	0	1	3M
			Nov-20 - Nov-20	0	1	3M
			Nov-30 - Nov-30	0	1	3M
			Dec 10 - Dec 10	0	1	3M
			Dec 20 - Dec 20	0	1	3M
			Dec 30 - Dec 30	0	1	3M
			Jan-05 - Jan-05	0	1	1F
			Jan-16 - Jan-16	0	1	1F
			Jan-25 - Jan-25	0	1	1F
			Feb-05 - Feb-05	0	1	1F
			Feb-15 - Feb-15	0	1	1F
			Feb-25 - Feb-25	0	1	1F
			Mar-06 - Mar-06	0	1	1F
			Mar-17 - Mar-17	0	1	1F
			Mar-26 - Mar-26	0	1	1F
			Apr-06 - Apr-06	0	1	1F
			Apr-15 - Apr-15	0	1	1F
			Apr-26 - Apr-26	0	1	1F
			May-05 - May-05	0	1	1F
			May-16 - May-16	0	1	1F
			May-25 - May-25	0	1	1F
			Jun-05 - Jun-05	0	1	1F
			Jun-14 - Jun-14	0	1	1F
			Jun-25 - Jun-25	0	1	1F
			Jul-04 - Jul-04	0	1	1F
			Jul-14 - Jul-14	0	1	1F
			Jul-25 - Jul-25	0	1	1F
			Aug-04 - Aug-04	0	1	1F
			Aug-13 - Aug-13	0	1	1F
			Aug-24 - Aug-24	0	1	1F
			Sep-02 - Sep-02	0	1	1F
			Sep-13 - Sep-13	0	1	1F
			Sep-22 - Sep-22	0	1	1F
			Oct-03 - Oct-03	0	1	1F
			Sep-28 - Sep-28	0	1	3N
			Oct-08 - Oct-08	0	1	3N
			Oct-18 - Oct-18	0	1	3N
			Oct-28 - Oct-28	0	1	3N
			Nov-07 - Nov-07	0	1	3M
			Nov-17 - Nov-17	0	1	3M

			Nov-27 - Nov-27	0	1	3M
			Dec 17 - Dec 17	0	1	3M
			Dec 27 - Dec 27	0	1	3M
			Sep-28 - Sep-28	0	1	3N
			Oct-08 - Oct-08	0	1	3N
			Oct-18 - Oct-18	0	1	3N
			Nov-07 - Nov-07	0	1	3M
			Nov-17 - Nov-17	0	1	3M
			Oct-14 - Oct-14	0	1	3M
			Oct-24 - Oct-24	0	1	3M
			Nov-03 - Nov-03	0	1	3M
			Sep-29 - Sep-29	0	1	3N
			Oct-09 - Oct-09	0	1	3N
			Oct-19 - Oct-19	0	1	3N
			Nov-08 - Nov-08	0	1	4VS
			Nov-17 - Nov-17	0	1	3N
			Nov-28 - Nov-28	0	1	3N
			Dec 08 - Dec 08	0	1	3N
			Dec 17 - Dec 17	0	1	3N
			Dec 27 - Dec 27	0	1	3M
			Oct-09 - Oct-09	0	1	3N
			Oct-19 - Oct-19	0	1	3N
			Oct-29 - Oct-29	0	1	3N
			Nov-08 - Nov-08	0	1	3N
			Nov-18 - Nov-18	0	1	3N
			Nov-28 - Nov-28	0	1	3N
			Dec 08 - Dec 08	0	1	3N
			Dec 18 - Dec 18	0	1	3N
			Dec 28 - Dec 28	0	1	3O
			Sep-28 - Sep-28	0	1	3N
			Oct-08 - Oct-08	0	1	3N
			Oct-18 - Oct-18	0	1	3N
			Oct-28 - Oct-28	0	1	3N
			Nov-07 - Nov-07	0	1	3M
			Apr-28 - Apr-28	0	1	6D
			May-08 - May-08	0	1	6C
			May-18 - May-18	0	1	6C
			Jun-17 - Jun-17	0	1	6E
			Dec 04 - Dec 04	0	1	3M
			Dec 11 - Dec 11	0	1	3K
			Dec 21 - Dec 21	0	1	3L
			Dec 31 - Dec 31	0	1	3L
			Aug-06 - Aug-06	0	1	1F
			Aug-16 - Aug-16	0	1	1F
			Aug-26 - Aug-26	0	1	1F
			Sep-05 - Sep-05	0	1	1F
			Sep-15 - Sep-15	0	1	1F
			Sep-25 - Sep-25	0	1	1F
			Oct-05 - Oct-05	0	1	1F

			Oct-15 - Oct-15	0	1	1F
			Oct-25 - Oct-25	0	1	1F
			Nov-04 - Nov-04	0	1	1F
			Nov-14 - Nov-14	0	1	1F
			Nov-24 - Nov-24	0	1	1F
			Dec 04 - Dec 04	0	1	1F
			Dec 14 - Dec 14	0	1	1F
			Dec 24 - Dec 24	0	1	1E
			Aug-08 - Aug-08	0	1	1F
			Aug-18 - Aug-18	0	1	1F
			Aug-28 - Aug-28	0	1	2H
			Sep-07 - Sep-07	0	1	1F
			Sep-17 - Sep-17	0	1	1F
			Sep-27 - Sep-27	0	1	1F
			Oct-07 - Oct-07	0	1	1F
			Oct-17 - Oct-17	0	1	1F
			Oct-27 - Oct-27	0	1	1F
			Nov-06 - Nov-06	0	1	1F
			Nov-16 - Nov-16	0	1	1F
			Nov-26 - Nov-26	0	1	1F
			Dec 06 - Dec 06	0	1	1F
			Nov-16 - Nov-16	0	1	3PS
			Nov-26 - Nov-26	0	1	3PS
			Dec 06 - Dec 06	0	1	4VS
			Dec 16 - Dec 16	0	1	4VS
			Dec 26 - Dec 26	0	1	4VS
			Dec 11 - Dec 11	0	1	3K
			Dec 21 - Dec 21	0	1	3L
			Oct-07 - Oct-07	0	1	3O
			Oct-17 - Oct-17	0	1	3N
			Oct-27 - Oct-27	0	1	3N
			Nov-06 - Nov-06	0	1	3O
			Nov-16 - Nov-16	0	1	3N
			Nov-26 - Nov-26	0	1	3N
			Dec 06 - Dec 06	0	1	3O
			Dec 16 - Dec 16	0	1	3O
			Dec 26 - Dec 26	0	1	3N
			Nov-20 - Nov-20	0	1	6D
			Nov-30 - Nov-30	0	1	6E
			Dec 10 - Dec 10	0	1	4X
			Dec 20 - Dec 20	0	1	4X
			Dec 30 - Dec 30	0	1	6E
			Dec 02 - Dec 02	0	1	3M
			Dec 12 - Dec 12	0	1	3M
			Jul-27 - Jul-27	0	1	3PS
			Aug-06 - Aug-06	0	1	3PS
			Aug-16 - Aug-16	0	1	3PS
			Aug-26 - Aug-26	0	1	3PS
			Sep-05 - Sep-05	0	1	3PS

			Sep-15 - Sep-15	0	1	3PS
			Sep-25 - Sep-25	0	1	3PS
			Oct-05 - Oct-05	0	1	3PS
			Oct-15 - Oct-15	0	1	4VS
			Oct-06 - Oct-06	0	1	3O
			Oct-16 - Oct-16	0	1	3O
			Oct-26 - Oct-26	0	1	3O
			Nov-05 - Nov-05	0	1	3O
			Nov-15 - Nov-15	0	1	3O
			Nov-25 - Nov-25	0	1	3N
			Dec 05 - Dec 05	0	1	3N
			Dec 15 - Dec 15	0	1	3N
			Dec 25 - Dec 25	0	1	3N
			Oct-11 - Oct-11	0	1	6G
			Oct-21 - Oct-21	0	1	6G
			Oct-31 - Oct-31	0	1	6G
			Nov-10 - Nov-10	0	1	6F
			Nov-20 - Nov-20	0	1	6F
			Nov-30 - Nov-30	0	1	6F
			Dec 10 - Dec 10	0	1	6F
			Dec 20 - Dec 20	0	1	6G
			Dec 30 - Dec 30	0	1	6G
			Oct-09 - Oct-09	0	1	4VS
			Oct-19 - Oct-19	0	1	6H
			Oct-29 - Oct-29	0	1	6H
			Nov-08 - Nov-08	0	1	6H
			Nov-18 - Nov-18	0	1	6H
			Nov-28 - Nov-28	0	1	6H
			Dec 08 - Dec 08	0	1	6H
			Dec 18 - Dec 18	0	1	6H
			Dec 28 - Dec 28	0	1	6H
			Oct-07 - Oct-07	0	1	3O
			Oct-17 - Oct-17	0	1	3N
			Oct-27 - Oct-27	0	1	3N
			Nov-06 - Nov-06	0	1	3N
			Nov-16 - Nov-16	0	1	3N
			Nov-26 - Nov-26	0	1	3N
			Dec 06 - Dec 06	0	1	3N
			Dec 16 - Dec 16	0	1	3N
			Dec 26 - Dec 26	0	1	3N
			Aug-09 - Aug-09	0	1	1F
			Aug-19 - Aug-19	0	1	1F
			Aug-29 - Aug-29	0	1	1F
			Sep-08 - Sep-08	0	1	1F
			Sep-18 - Sep-18	0	1	1F
			Sep-28 - Sep-28	0	1	1F
			Oct-08 - Oct-08	0	1	1F
			Oct-18 - Oct-18	0	1	1F
			Oct-28 - Oct-28	0	1	1F

			Nov-07 - Nov-07	0	1	1F
			Nov-17 - Nov-17	0	1	1F
			Nov-27 - Nov-27	0	1	1F
			Dec 07 - Dec 07	0	1	1F
			Dec 17 - Dec 17	0	1	1F
			Dec 27 - Dec 27	0	1	1F
			Aug-07 - Aug-07	0	1	1E
			Aug-17 - Aug-17	0	1	1E
			Aug-27 - Aug-27	0	1	1E
			Sep-06 - Sep-06	0	1	1E
			Sep-16 - Sep-16	0	1	1E
			Sep-26 - Sep-26	0	1	1E
			Oct-06 - Oct-06	0	1	1E
			Oct-16 - Oct-16	0	1	1E
			Oct-26 - Oct-26	0	1	1E
			Nov-05 - Nov-05	0	1	1E
			Nov-15 - Nov-15	0	1	1E
			Nov-25 - Nov-25	0	1	1E
			Dec 05 - Dec 05	0	1	1E
			Dec 15 - Dec 15	0	1	1E
			Dec 25 - Dec 25	0	1	1E
			Aug-14 - Aug-14	0	1	4W
			Sep-03 - Sep-03	0	1	4W
			Sep-13 - Sep-13	0	1	4VS
			Sep-23 - Sep-23	0	1	4VS
			Sep-14 - Sep-14	0	1	6E
			Sep-25 - Sep-25	0	1	6E
			Oct-04 - Oct-04	0	1	6E
			Oct-15 - Oct-15	0	1	6E
			Oct-25 - Oct-25	0	1	4W
			Nov-04 - Nov-04	0	1	6E
			Nov-14 - Nov-14	0	1	4VS
			Dec 04 - Dec 04	0	1	4VS
			Dec 15 - Dec 15	0	1	4VS
			Sep-17 - Sep-17	0	1	6H
			Aug-26 - Aug-26	0	1	3O
			Sep-05 - Sep-05	0	1	3O
			Sep-15 - Sep-15	0	1	3O
			Sep-25 - Sep-25	0	1	3O
			Oct-05 - Oct-05	0	1	3O
			Oct-25 - Oct-25	0	1	3O
			Nov-24 - Nov-24	0	1	3O
			Dec 04 - Dec 04	0	1	3O
			Oct-06 - Oct-06	0	1	2J
			Oct-16 - Oct-16	0	1	2J
			Oct-26 - Oct-26	0	1	2J
			Nov-05 - Nov-05	0	1	2J
			Nov-15 - Nov-15	0	1	2J
			Nov-25 - Nov-25	0	1	2H

			Dec 05 - Dec 05	0	1	2H
			Dec 15 - Dec 15	0	1	2H
			Dec 25 - Dec 25	0	1	2H
			Aug-27 - Aug-27	0	1	1F
			Sep-06 - Sep-06	0	1	1F
			Sep-16 - Sep-16	0	1	1F
			Oct-06 - Oct-06	0	1	1F
			Oct-16 - Oct-16	0	1	1F
			Oct-26 - Oct-26	0	1	1F
			Nov-05 - Nov-05	0	1	1F
			Nov-15 - Nov-15	0	1	1F
			Nov-25 - Nov-25	0	1	1F
			Dec 05 - Dec 05	0	1	1F
			Oct-06 - Oct-06	0	1	6C
			Oct-16 - Oct-16	0	1	6C
			Oct-26 - Oct-26	0	1	6C
			Nov-05 - Nov-05	0	1	6C
			Nov-15 - Nov-15	0	1	6C
			Nov-25 - Nov-25	0	1	6D
			Dec 05 - Dec 05	0	1	6C
			Dec 15 - Dec 15	0	1	6D
			Dec 25 - Dec 25	0	1	6D
			Oct-15 - Oct-15	0	1	6B
			Oct-25 - Oct-25	0	1	6B
			Nov-04 - Nov-04	0	1	6B
			Nov-14 - Nov-14	0	1	6D
			Nov-24 - Nov-24	0	1	6D
			Dec 14 - Dec 14	0	1	6D
			Dec 24 - Dec 24	0	1	6D
			Oct-17 - Oct-17	0	1	6H
			Oct-27 - Oct-27	0	1	6H
			Nov-06 - Nov-06	0	1	6H
			Nov-16 - Nov-16	0	1	6G
			Nov-26 - Nov-26	0	1	6H
			Dec 06 - Dec 06	0	1	6G
			Dec 16 - Dec 16	0	1	6G
			Dec 26 - Dec 26	0	1	6H
			Oct-17 - Oct-17	0	1	6H
			Oct-27 - Oct-27	0	1	6H
			Nov-06 - Nov-06	0	1	6H
			Nov-16 - Nov-16	0	1	6H
			Nov-26 - Nov-26	0	1	6H
			Dec 06 - Dec 06	0	1	6H
			Dec 16 - Dec 16	0	1	6H
			Dec 26 - Dec 26	0	1	6G
			Jan-01 - Jan-01	0	1	1F
			Jan-11 - Jan-11	0	1	1F
			Jan-21 - Jan-21	0	1	1E
			Jan-31 - Jan-31	0	1	1F

			Feb-10 - Feb-10	0	1	1F
			Feb-20 - Feb-20	0	1	1F
			Mar-02 - Mar-02	0	1	1F
			Mar-12 - Mar-12	0	1	1F
			Mar-22 - Mar-22	0	1	1F
			Apr-01 - Apr-01	0	1	1F
			Apr-11 - Apr-11	0	1	1F
			Apr-21 - Apr-21	0	1	1F
			May-01 - May-01	0	1	1E
			May-11 - May-11	0	1	1E
			May-21 - May-21	0	1	1F
			May-31 - May-31	0	1	1F
			Jun-10 - Jun-10	0	1	1F
			Jun-20 - Jun-20	0	1	2G
			Jun-30 - Jun-30	0	1	2G
			Jul-10 - Jul-10	0	1	2G
			Jul-20 - Jul-20	0	1	2H
			Jul-30 - Jul-30	0	1	2H
			Jan-01 - Jan-01	0	1	1F
			Jan-11 - Jan-11	0	1	1F
			Jan-21 - Jan-21	0	1	1F
			Jan-31 - Jan-31	0	1	1F
			Feb-10 - Feb-10	0	1	1F
			Mar-02 - Mar-02	0	1	1F
			Mar-12 - Mar-12	0	1	1F
			Mar-22 - Mar-22	0	1	1F
			Apr-01 - Apr-01	0	1	1F
			Apr-11 - Apr-11	0	1	1F
			Apr-21 - Apr-21	0	1	1F
			May-01 - May-01	0	1	1F
			May-11 - May-11	0	1	1F
			May-21 - May-21	0	1	1F
			May-31 - May-31	0	1	1F
			Jun-10 - Jun-10	0	1	1F
			Jun-20 - Jun-20	0	1	1F
			Jun-30 - Jun-30	0	1	1F
			Jul-10 - Jul-10	0	1	1F
			Jul-20 - Jul-20	0	1	1F
			Jul-30 - Jul-30	0	1	1F
			Aug-09 - Aug-09	0	1	1F
			Aug-19 - Aug-19	0	1	1F
			Aug-29 - Aug-29	0	1	1F
			Sep-25 - Sep-25	0	1	6H
			Oct-05 - Oct-05	0	1	6H
			Oct-25 - Oct-25	0	1	6H
			Nov-04 - Nov-04	0	1	6H
			Nov-14 - Nov-14	0	1	6H
			Nov-24 - Nov-24	0	1	6H
			Dec 04 - Dec 04	0	1	6H

			Dec 14 - Dec 14	0	1	6H
			Dec 24 - Dec 24	0	1	6H
			Nov-01 - Nov-01	0	1	1F
			Jul-24 - Jul-24	0	1	1F
			Aug-03 - Aug-03	0	1	1F
			Aug-13 - Aug-13	0	1	1F
			Aug-23 - Aug-23	0	1	1E
			Sep-02 - Sep-02	0	1	1E
			Sep-12 - Sep-12	0	1	1E
			Sep-22 - Sep-22	0	1	1F
			Oct-02 - Oct-02	0	1	1F
			Oct-12 - Oct-12	0	1	1F
			Oct-22 - Oct-22	0	1	1E
			Nov-01 - Nov-01	0	1	1F
			Nov-11 - Nov-11	0	1	1E
			Nov-21 - Nov-21	0	1	1E
			Dec 01 - Dec 01	0	1	1E
			Dec 11 - Dec 11	0	1	1F
			Dec 21 - Dec 21	0	1	1F
			Dec 31 - Dec 31	0	1	1F
			Jan-01 - Jan-01	0	1	0B
			Jan-11 - Jan-11	0	1	0B
			Jan-21 - Jan-21	0	1	0B
			Jan-31 - Jan-31	0	1	0B
EMERALD INDAH	SINGAPORE	S6ID 03	Jun-17 - Jun-17	1	0	6G
			Jul-02 - Jul-02	1	0	6H
UNKNOWN/INCONNU	UNKNOWN/IN	SHIP 03	Feb-22 - Feb-22	2	0	3L
			Mar-26 - Mar-26	0	10	3K
			Jun-12 - Jul-09	130	52	1F 3L 3N 3O 3PS 4S 4T 4VN 4VS 4W 4X 5Y 5ZW 6D
			Jul-16 - Jul-16	1	0	4W
			Jul-25 - Jul-25	2	0	3L 3M
			Aug-09 - Aug-14	18	41	3M 3N 4S 4T 4VN 4W 4X
			Aug-21 - Aug-28	20	0	4W 4X
			Sep-08 - Sep-25	67	49	3L 3N 3O 3PS 4T 4VS 4W 4X
			Oct-04 - Oct-18	18	0	2H 2J 3K 3L 4R 4VN 4VS 4W
			Oct-27 - Oct-30	7	42	4T 4X 5Y 6B 6C
			Nov-04 - Dec 10	177	2	3L 3N 3O 3PS 4T 4W 4X 5Y 5ZE 5ZW 6A 6B 6C
ATLANTIC CLAIRE	CANADA	VC8218 03	Jun-06 - Jun-15	32	0	3L 3N 3O
ENDEAVOR	USA	WAUW 03	May-01 - May-04	6	0	3M 4VS 6B 6C 6E
			May-29 - May-30	2	0	6G 6H
			Jul-15 - Jul-18	5	0	5ZE 6E 6G 6H
			Jul-24 - Jul-27	5	0	3N 6D 6F 6G
			Aug-25 - Aug-28	10	0	3M 3N 3O 4W 5ZE

			Sep-03 - Sep-07	8	0	3M 3N 4VS 6C 6D 6E 6G
			Oct-08 - Oct-08	2	0	6D
			Oct-14 - Oct-17	10	0	6C 6D 6E 6F 6G 6H
			Nov-20 - Nov-23	9	0	6D 6E 6F 6G 6H
			Dec 01 - Dec 03	6	0	6E 6F 6G 6H
ENTERPRISE	USA	WAUY 03	Jan-02 - Jan-04	6	0	5ZE 5ZW 6D 6E
			Jul-30 - Jul-31	2	0	6D 6E
			Aug-06 - Aug-09	38	0	3M 3N 4VS 6C 6D 6E
			Sep-06 - Sep-09	38	0	4X 5ZE 5ZW 6E 6F 6G 6H
			Sep-15 - Sep-17	3	0	4VS 6D 6F
			Oct-16 - Oct-17	3	0	4VS 4X
			Oct-26 - Oct-27	2	0	6H
		WCAH 03	Jun-26 - Jun-29	10	0	3M 3N 3O 3PS 4VS 4W
DELAWARE BAY	USA	WMLG 03	Feb-02 - Feb-04	7	0	4W 4X 6E 6F
			Mar-18 - Mar-19	4	0	6G 6H
			Mar-28 - Mar-31	12	0	6D 6E 6F 6G 6H
			Apr-27 - Apr-30	13	0	4VS 4W 4X 6F 6G 6H
			Jun-19 - Jun-20	6	0	6D 6E 6F 6G
			Aug-05 - Aug-16	16	0	3M 3N 3O 4VS 4W 6C 6D 6E 6F 6G 6H
			Sep-22 - Sep-25	9	0	6C 6D 6E 6F 6G 6H
			Oct-18 - Oct-18	1	0	6H
			Oct-28 - Oct-29	2	0	6E 6F
			Dec 09 - Dec 12	11	0	6C 6D 6E 6F 6G 6H

Table 2: Surface Thermosalinograph data received during 2003.

Total = 592 stations

Ship Name	Country	Call Sign	Cruise Period	TRACKOB	NAFO Subarea
		834 03	Jun-18 - Jun-18	1	4VS
SEEFALKE	GERMANY	DBFO 03	Aug-26 - Sep-11	190	1F 2J 3K 3L
		ELFZ6 03	Aug-13 - Aug-13	1	5ZE
		ELVX 03	Sep-13 - Sep-13	1	6C
CONTSHIP LONDON	LIBERIA	ELVX4 03	Mar-25 - Mar-25	17	3M 3N
			Jun-16 - Jun-20	100	3M 3N 3O 4VS 4W 4X 5ZE 5ZW 6A
			Sep-08 - Sep-13	100	3M 3N 3O 4VS 4W 4X 5ZE 5ZW 6A 6B 6C
			Dec 02 - Dec 06	72	3M 3N 3O 4VS 4W 4X 5ZE 5ZW 6A
		ELVX6 03	Aug-05 - Aug-05	1	4VS
		ELVZ2 03	Aug-05 - Aug-05	1	4VS
CONTSHIP ROME	LIBERIA	ELVZ6 03	Aug-01 - Aug-01	1	3N
			Aug-10 - Aug-16	105	3M 3N 3O 4VS 4W 4X 5ZE 5ZW 6A 6B 6C
UNKNOWN/INCONNU	UNKNOWN/IN	SHIP 03	Aug-12 - Aug-12	1	4X
			Dec 06 - Dec 06	1	6A

Table 3: Delayed mode profile data received during 2003.

Total = 5891 stations

Country	Cruise Num	Cruise Period	BT	CTD	BOTTLE	NAFO Subarea
CANADA	180K03002	Apr-28 - May-11	24	0	0	3PS
CANADA	180K03005	Jun-18 - Jun-18	1	0	0	3PS
CANADA	180K03015	Nov-11 - Nov-19	11	0	0	3PS
CANADA	181A03001	Mar-13 - Mar-13	1	0	0	4X
CANADA	181A03002	Mar-24 - Mar-26	4	0	0	4X 5Y
CANADA	181A03003	May-27 - May-27	1	0	0	6A
CANADA	181A03005	Jun-04 - Jun-06	7	0	0	4X 5ZE
		Jun-12 - Jun-12	1	0	0	4VN
CANADA	181A03006	Jun-13 - Jun-15	2	0	0	3PS
CANADA	181A03007	Jun-25 - Jun-25	1	0	0	4VN
CANADA	181A03008	Jun-25 - Jun-26	2	0	0	4W
		Jul-03 - Jul-03	1	0	0	4W
CANADA	181A03009	Jul-03 - Jul-03	2	0	0	4T 4W
CANADA	181A03010	Aug-13 - Aug-13	1	0	0	4S
		Sep-16 - Sep-16	1	0	0	4X
CANADA	181A03011	Oct-07 - Oct-17	17	0	0	2H 2J 3K 3L 4R 4VN
CANADA	181A03012	Nov-16 - Nov-16	1	0	0	4X
		Nov-23 - Dec 02	6	0	0	4W 4X
CANADA	181C03001	Jan-04 - Jan-16	7	40	2	2J 3K 3L
CANADA	181C03002	Apr-01 - Apr-03	1	19	1	3L 3PS
CANADA	181C03003	Apr-05 - Apr-16	4	58	0	3PS 3PN
CANADA	181C03004	Apr-19 - May-03	22	115	1	3L 3O 3PS
CANADA	181C03005	May-05 - May-06	0	4	0	3L
CANADA	181C03006	May-07 - May-16	5	72	2	3L 3O
CANADA	181C03007	May-17 - May-28	6	58	2	3L 3N
CANADA	181C03008	May-31 - Jun-13	11	78	2	3L 3N
CANADA	181C03009	Jun-14 - Jun-26	11	96	0	3L 3O
CANADA	181C03010	Jun-28 - Jun-28	0	1	0	3L
		Jul-04 - Jul-08	1	2	0	3L 3PS
CANADA	181C03012	Oct-08 - Oct-17	2	72	2	3L 3O
CANADA	181C03013	Oct-20 - Oct-31	7	59	2	3L 3N 3O
CANADA	181C03014	Nov-03 - Nov-14	2	52	2	3L 3N
CANADA	181C03015	Nov-17 - Nov-28	2	62	2	3L 3O 3PS
CANADA	181C03016	Dec 01 - Dec 12	2	63	2	3L
CANADA	181C03017	Dec 12 - Dec 19	8	35	0	3K 3L
CANADA	189003001	Mar-01 - Mar-01	0	2	2	4S 4T
		Apr-08 - Apr-08	0	2	2	4S 4T
		Jul-23 - Jul-23	0	2	2	4S 4T
		Sep-25 - Sep-25	0	2	2	4S 4T
		Oct-11 - Oct-11	0	2	2	4S 4T
CANADA	18AH03001	Aug-11 - Aug-14	11	0	0	4W 4X
CANADA	18AH03002	Aug-21 - Aug-24	12	0	0	4W 4X
CANADA	18AH03003	Sep-08 - Sep-11	12	0	0	4X
CANADA	18AH03004	Nov-10 - Nov-14	4	0	0	4W 4X
CANADA	18AH03005	Nov-17 - Dec 04	43	0	0	4W 4X 5ZE 5ZW 6A 6B 6C

CANADA	18BG03014	May-14 - May-14	0	1	1	4T
		May-28 - May-28	0	1	1	4T
		Jun-05 - Jun-05	0	0	1	4T
		Jun-12 - Jun-12	0	1	1	4T
		Jun-19 - Jun-19	0	1	1	4T
		Jun-26 - Jun-26	0	1	1	4T
		Jul-03 - Jul-03	0	1	1	4T
		Jul-10 - Jul-10	0	1	1	4T
		Jul-16 - Jul-16	0	1	1	4T
		Jul-24 - Jul-24	0	1	1	4T
		Jul-30 - Jul-30	0	1	1	4T
		Aug-12 - Aug-12	0	2	1	4T
		Aug-21 - Aug-21	0	1	1	4T
		Sep-03 - Sep-03	0	1	1	4T
		Sep-16 - Sep-16	0	1	1	4T
		Oct-02 - Oct-02	0	1	1	4T
		Oct-14 - Oct-14	0	1	1	4T
		Nov-18 - Nov-18	0	1	0	4T
CANADA	18BW03001	Mar-26 - Mar-26	0	10	0	3K
CANADA	18C803001	Jan-27 - Jan-30	10	0	0	4W 4X
CANADA	18C803002	Mar-17 - Mar-28	32	0	0	4X 5ZE 6B 6C
CANADA	18C803003	Feb-04 - Feb-21	21	0	0	3L 3N 3O 3PS 4VS 4W
CANADA	18C803004	Sep-15 - Sep-24	27	0	0	3L 3N 3O 3PS 4VS 4W
CANADA	18C803005	Nov-05 - Nov-11	23	0	0	3L 3N 3O 3PS 4W
		Nov-16 - Nov-26	19	0	0	3L 3N 3O 4VS
CANADA	18CN03008	May-03 - May-11	0	5	0	4S
CANADA	18CN03047	Aug-25 - Sep-04	0	12	0	4T
CANADA	18FC03050	Aug-25 - Aug-30	0	29	0	4S
CANADA	18FN03001	Mar-05 - Mar-07	7	0	0	3M 3N 3O 4VS 4W
CANADA	18FN03002	Nov-04 - Nov-06	7	0	0	4W 4X
CANADA	18FN03003	Nov-12 - Nov-13	4	0	0	4X
CANADA	18HE03003	Mar-04 - Mar-11	0	66	64	4R 4S 4T 4VN
CANADA	18HL03001	Feb-18 - Feb-28	35	0	0	3L 3N 3O 3PS 4VS 4W 4X
CANADA	18HU03005	Apr-12 - Apr-19	0	8	0	4W 4X
CANADA	18HU03010	May-16 - May-16	0	1	0	4W
CANADA	18HU03021	May-29 - May-29	0	1	0	4W
CANADA	18HU03067	Oct-19 - Oct-24	0	2	0	4W
		Oct-31 - Oct-31	0	1	0	4W
CANADA	18HU03072	Nov-12 - Nov-12	0	1	0	4W
CANADA	18HU03075	Nov-19 - Dec 06	10	137	0	3K 3L 3M 3N 3O
CANADA	18HU03078	Dec 22 - Dec 22	0	1	0	4W
CANADA	18IS03001	Jan-21 - Jan-26	15	0	0	4X 5ZE 5ZW 6B 6C
CANADA	18IS03002	Feb-25 - Mar-01	8	0	0	3O 4VS 4W 4X
		Mar-06 - Mar-07	4	0	0	3N 4VS
CANADA	18IS03003	Jul-25 - Jul-28	3	0	0	3L 3M 4VS
CANADA	18IS03004	Sep-22 - Sep-25	9	0	0	4W 4X
CANADA	18IS03005	Oct-04 - Oct-06	5	0	0	4VS 4W
CANADA	18MH03001	May-05 - May-05	0	1	0	4W

CANADA	18MP03001	Sep-16 - Sep-18	7	0	0	4X
CANADA	18MP03002	Sep-30 - Oct-01	3	0	0	4X 6C 6D
		Oct-28 - Oct-30	6	0	0	5ZE 6B 6C
CANADA	18MP03003	Nov-17 - Dec 05	51	0	0	4W 4X 5ZE 5ZW 6A 6B 6C
CANADA	18MQ03001	Feb-10 - Feb-13	7	0	0	4X
CANADA	18MQ03002	Mar-17 - Mar-21	7	0	0	4X 5Y
CANADA	18MQ03003	May-14 - Jun-12	66	0	0	3L 3O 3PS 4VS 4W 4X
CANADA	18MQ03004	Sep-08 - Sep-26	52	0	0	3L 3O 3PS 4VS 4W 4X
CANADA	18MQ03005	Oct-06 - Oct-10	14	0	0	4X 5ZE 5ZW 6A 6B
CANADA	18MQ03006	Nov-03 - Nov-06	9	0	0	4T 4W
		Nov-17 - Nov-27	19	0	0	4W 4X
CANADA	18MQ03007	Dec 01 - Dec 01	1	0	0	4X
		Dec 09 - Dec 10	5	0	0	4W 4X
CANADA	18NE03003	Mar-06 - Mar-06	0	1	0	4W
CANADA	18NE03036	Jun-26 - Jun-26	0	5	0	4W
		Jul-18 - Jul-18	0	1	0	4W
CANADA	18NE03038	Aug-03 - Aug-29	0	195	0	3PN 4R 4S 4T 4VN
CANADA	18OK03001	Jan-13 - Jan-22	0	18	0	3L
CANADA	18OK03002	Apr-28 - Apr-28	0	1	0	3PS
		May-06 - May-07	0	4	0	3PS
CANADA	18OK03003	May-16 - May-19	0	10	0	3L
CANADA	18OK03004	May-24 - Jun-09	0	15	0	3L
CANADA	18OK03005	Jun-16 - Jun-27	0	32	0	3PS
CANADA	18OK03006	Jul-01 - Jul-05	0	16	0	3L
CANADA	18OK03007	Jul-11 - Jul-25	0	18	0	3K 3L
CANADA	18OK03008	Jul-29 - Aug-02	0	13	0	3L
CANADA	18OK03009	Aug-06 - Aug-17	0	19	0	3L
CANADA	18OK03010	Aug-19 - Aug-23	0	17	0	3L
CANADA	18OK03011	Sep-10 - Sep-14	0	12	0	3L
CANADA	18OK03012	Sep-16 - Sep-27	0	32	0	3L
CANADA	18OK03013	Oct-05 - Oct-15	0	24	0	3L
CANADA	18OK03014	Oct-18 - Nov-01	0	34	0	3L
CANADA	18OK03015	Nov-12 - Nov-12	0	1	0	3PS
CANADA	18OK03016	Nov-24 - Dec 07	0	50	0	3L
CANADA	18OK03017	Apr-07 - Apr-17	0	6	0	3PS
CANADA	18OL03004	Apr-17 - Apr-24	0	46	42	4R 4S 4T 4VN
CANADA	18OL03019	Jun-07 - Jun-14	0	44	44	4R 4S 4T 4VN
CANADA	18OL03033	Jun-17 - Jun-23	0	65	0	4S 4T
CANADA	18OL03036	Jun-26 - Jul-03	0	60	3	4S 4T
CANADA	18OL03053	Sep-04 - Sep-07	0	66	0	4T
CANADA	18OL03054	Sep-08 - Sep-14	0	59	2	4S 4T
CANADA	18OL03064	Oct-22 - Nov-07	0	62	62	4R 4S 4T 4VN
CANADA	18OP03001	May-29 - May-29	0	1	0	4T
CANADA	18PA03001	Jan-02 - Jan-03	0	3	0	4X
CANADA	18PA03002	Jan-16 - Jan-16	0	3	0	4X
CANADA	18PA03003	Feb-14 - Feb-14	0	2	0	4X
CANADA	18PA03004	Feb-17 - Feb-17	0	1	0	4X
CANADA	18PA03005	Feb-28 - Feb-28	0	3	0	4X

CANADA	18PA03006	Mar-14 - Mar-14	0	3	0	4X
CANADA	18PA03007	Mar-31 - Mar-31	0	3	0	4X
CANADA	18PA03008	May-01 - May-01	0	3	0	4X
CANADA	18PA03009	May-15 - May-15	0	3	0	4X
CANADA	18PA03010	May-27 - May-28	0	3	0	4X
CANADA	18PA03011	Jun-27 - Jun-27	0	3	0	4X
CANADA	18PA03012	Jul-14 - Jul-14	0	3	0	4X
CANADA	18PA03013	Aug-14 - Aug-14	0	3	0	4X
CANADA	18PA03014	Jun-13 - Jun-13	0	3	0	4X
CANADA	18PA03015	Sep-15 - Sep-15	0	1	0	4X
CANADA	18PA03016	Oct-01 - Oct-01	0	3	0	4X
CANADA	18PA03017	Oct-14 - Oct-14	0	3	0	4X
CANADA	18PA03018	Nov-18 - Nov-18	0	3	0	4X
CANADA	18PA03019	Dec 19 - Dec 19	0	3	0	4X
CANADA	18PY03001	May-22 - May-22	0	1	0	4T
CANADA	18PY03002	Jun-17 - Jun-17	0	1	0	4T
CANADA	18PY03003	Jul-03 - Jul-03	0	1	0	4T
CANADA	18PY03004	Jul-15 - Jul-15	0	1	0	4T
CANADA	18PY03005	Aug-12 - Aug-12	0	1	0	4T
CANADA	18PY03006	Oct-08 - Oct-08	0	1	0	4T
CANADA	18PY03007	Nov-07 - Nov-07	0	1	0	4T
CANADA	18S603001	Jul-01 - Jul-07	6	0	0	4VN 4W 4X
CANADA	18S603002	Mar-17 - Mar-25	9	0	0	4X 6B
		Apr-15 - Apr-16	2	0	0	4X 5Y
CANADA	18S603003	Nov-03 - Nov-04	2	0	0	4X
CANADA	18S603004	Nov-12 - Nov-13	5	0	0	4W
CANADA	18S603005	Nov-17 - Dec 05	49	0	0	4W 4X 5ZE 5ZW 6A 6B 6C
CANADA	18S903001	Aug-13 - Aug-13	0	1	0	4W
CANADA	18S903002	Sep-16 - Sep-16	0	1	0	4W
CANADA	18S903003	Sep-16 - Sep-16	0	1	0	4W
CANADA	18TL03001	Jan-03 - Jan-14	14	82	2	2J 3K 3L
CANADA	18TL03002	May-08 - May-16	0	39	2	3L
CANADA	18TL03003	Apr-08 - Apr-11	0	26	1	3L
		Apr-18 - Apr-18	0	1	1	3L
CANADA	18TL03004	Apr-19 - May-04	25	136	108	3K 3L 3M 3N 3O
CANADA	18TL03005	May-17 - May-26	51	19	2	3K 3L
CANADA	18TL03006	Jun-14 - Jun-23	29	23	2	3K 3L
CANADA	18TL03007	Jul-21 - Aug-06	31	124	107	2G 2H 2J 3K 3L 3M
CANADA	18TL03008	Sep-20 - Sep-22	2	21	1	3L
CANADA	18TL03009	Sep-22 - Sep-27	0	10	2	3L 3O
CANADA	18TL03010	Nov-29 - Dec 11	10	80	0	2J 3L
CANADA	18TL03011	Dec 14 - Dec 19	3	34	0	2J 3K 3L
CANADA	18TL03015	May-31 - Jun-12	0	23	0	2J 3K 3L
CANADA	18TL03016	Jan-19 - Jan-27	1	17	0	3K 3L
CANADA	18TR03001	Feb-18 - Feb-21	15	0	0	4W 4X
CANADA	18TR03002	Mar-17 - Apr-04	44	0	0	4X 5ZE 6B 6C
		Apr-10 - Apr-12	5	0	0	5ZE 6C 6D
CANADA	18TR03003	May-12 - May-14	5	0	0	4X 5ZE 6B 6C

		May-27 - May-27	2	0	0	5ZE 6D
CANADA	18TR03004	Aug-25 - Aug-28	10	0	0	4W 4X
CANADA	18TR03005	Sep-08 - Sep-11	7	0	0	4W 4X
CANADA	18TR03006	Nov-17 - Nov-25	33	0	0	4X 5ZE 5ZW 6A 6B 6C
		Dec 03 - Dec 03	1	0	0	6C
CANADA	18VA03001	Jan-13 - Jan-13	0	1	1	3L
CANADA	18VA03002	Feb-10 - Feb-10	0	1	1	3L
CANADA	18VA03003	Apr-09 - Apr-09	0	1	1	3L
CANADA	18VA03004	Sep-03 - Sep-03	0	1	1	3L
CANADA	18VA03005	Sep-16 - Sep-16	0	1	1	3L
CANADA	18VA03006	Nov-18 - Nov-18	0	1	0	4T
CANADA	18VA03007	Dec 10 - Dec 10	0	1	0	4T
CANADA	18VA03016	Apr-28 - Apr-30	0	12	0	4VS 4W
		Jul-05 - Jul-14	0	39	0	4VS 4W
CANADA	18VA03017	Apr-21 - Apr-22	0	7	0	4T
CANADA	18VA03020	Jun-06 - Jun-15	32	0	0	3L 3N 3O
CANADA	18VA03041	Jun-19 - Jun-19	0	8	0	4T
CANADA	18VA03048	Jul-07 - Jul-08	0	43	0	4T
		Aug-11 - Aug-13	0	42	0	4T
		Sep-22 - Sep-25	0	41	0	4T
		Oct-27 - Oct-30	0	42	0	4T
CANADA	18VA03049	Sep-29 - Sep-29	0	6	0	4T
CANADA	18VA03059	Sep-15 - Sep-16	0	10	0	4T
CANADA	18VQ03001	Apr-09 - Apr-10	5	0	0	4X
CANADA	18VQ03002	Apr-14 - Apr-16	3	0	0	4W
CANADA	18VQ03003	Apr-22 - Apr-25	9	0	0	4W 4X
CANADA	18VQ03004	Apr-29 - Apr-29	3	0	0	4W
CANADA	18VQ03005	May-20 - Jun-23	89	0	0	4R 4S 4T 4VN 4W 4X 5Y 5ZE 5ZW 6A 6B 6C
CANADA	18VQ03006	Jun-30 - Jul-03	21	0	0	4X 5ZE 6C 6D
USA	316G03001	Jan-23 - Jan-31	0	62	0	4X 5Y 5ZE 5ZW
USA	316G03002	Feb-06 - Feb-12	0	49	0	6B 6C
		Feb-20 - Mar-01	0	54	0	5ZE 5ZW 6A 6B
USA	316G03003	Mar-06 - Mar-13	0	57	0	6B 6C
		Mar-18 - Apr-27	0	276	0	4X 5Y 5ZE 5ZW 6A 6B
USA	316G03005	May-24 - May-29	0	58	0	4X 5Y 5ZE
		Jul-16 - Jul-21	0	5	0	5ZE 5ZW 6A
USA	316G03006	Jul-16 - Jul-31	0	11	0	5ZE 5ZW 6A 6C
USA	316G03008	Sep-04 - Sep-10	0	49	0	4X 5Y 5ZE
		Sep-18 - Sep-25	0	45	0	4X 5Y 5ZE 5ZW
		Sep-30 - Oct-10	0	51	0	4X 5Y 5ZE 5ZW
USA	316G03010	Oct-29 - Nov-06	0	15	0	5ZE
USA	31A403001	Jul-02 - Jul-03	0	7	0	5ZE
USA	31A403002	Jul-09 - Jul-11	0	12	0	6A 6B
USA	31A403003	Aug-06 - Aug-14	0	61	0	5ZE 6A 6B 6C
USA	31A403004	Aug-19 - Aug-29	0	59	0	5ZE
USA	31A403005	Sep-03 - Sep-05	0	16	0	5ZE
USA	31A403006	Nov-03 - Nov-12	0	86	0	4X 5Y 5ZE 5ZW 6A
USA	31AM03001	Aug-20 - Aug-28	0	86	0	4X 5Y 5ZE 5ZW

Table 4: Profile data collected prior to 2003 and processed during the past year. Total= 13796 stations

Unique ID	Year	CTD	TowedCTD	BOT	BT	NAFO Subarea
069059001	1959	0	0	2	0	2G
069065001	1965	0	0	0	11	3M 3K 3L 2J
069065002	1965	0	0	0	16	3K 2J 2H 2G 0B
06AD00540	1962	0	0	6	0	1C 1D
06AD00770	1966	0	0	2	0	1F
06AD01870	1972	0	0	45	0	5ZW 5ZE 5Y 4X 4VN 3PS 3K 2J 2H 2G 1B 1C 1D
06AD02660	1974	0	0	127	0	5ZW 5ZE 4X 2J 1F
06AD09180	1958	0	0	4	0	1F
06AD55001	1955	0	0	18	0	1D 1C 1B 1A
06AD63069	1963	0	0	2	0	1F
06DA01620	1975	0	0	78	0	3K 2J
06DA02320	1975	0	0	119	0	5ZE 4X 5Y 5ZW
06DA76001	1976	0	0	43	0	5ZW 5ZE
06GA09190	1958	0	0	6	0	3M 1F
06ME35001	1935	0	0	7	0	1F 2J 3K
06WH00700	1966	0	0	2	0	2J
06WH00820	1967	0	0	3	0	2J 1B 1F
06WH00830	1968	0	0	3	0	1B 1E
06WH00840	1969	0	0	212	0	5ZE 4X 4W 4VS 4VN 3PS 3O 3L 3M 3K 2J 2H 2G 1D 1E 1C 1B 1F 5ZW
06WH01020	1970	0	0	298	0	3K 2J 2H 2G 1D 1C 1F 5ZE 5ZW 5Y 4X 4W 6A
06WH01580	1971	0	0	96	0	4X 5Y 5ZE 5ZW 3K 2J 2H 2G 1C 1D 1E 1F
06WH01650	1975	0	0	1	0	1D
06WH65001	1965	0	0	5	0	3O 5ZE 3PS 3L
06WH65003	1965	0	0	25	0	3L 3K 2J 2H 2G 0B 1C
06WH79078	1979	0	0	0	3	1D 1C
180579021	1979	0	0	1	1	3M
181069200	1969	0	0	24	0	4X 4W
181C02001	2002	27	2	0	2	3L 3N 3PS
181C02002	2002	131	0	0	9	3PS 3PN
181C02003	2002	95	0	0	2	3PS 3O 3L
181C02004	2002	0	3	0	0	3PS
181C02005	2002	64	1	0	0	3L 3O 3N
181C02006	2002	82	2	1	2	3L 3N 3O
181C02007	2002	70	1	1	9	3L 3O 3PS
181C02008	2002	55	0	0	3	3L 3N
181C02009	2002	0	1	1	0	3L
181C02010	2002	97	0	0	4	3O 3N
181C02011	2002	74	2	0	3	3L 3N
181C02012	2002	68	2	0	5	3L 3N 3O
181C02013	2002	62	2	0	11	3L
181C02014	2002	69	1	0	1	3L 3K

181C02015	2002	27	0	0	0	3K 2J
181C02016	2002	78	0	0	12	3L
189002001	2002	0	28	37	0	4T 4S
189969900	1969	0	239	0	0	4X 4W
189970900	1970	0	238	0	0	4W 4X
189971900	1971	0	261	0	0	4X 4W
18BG02012	2002	0	24	0	0	4T
18BW02001	2002	0	35	0	0	3K
18BW02002	2002	0	53	0	0	3K
18BW02003	2002	0	36	0	0	3K
18BW02004	2002	0	14	0	0	3PS
18C793022	1993	0	10	0	0	4T
18C793058	1993	0	18	0	0	4T
18C801002	2001 2002	0	0	0	20	4X 4W 4VS 3M 3N
18C802001	2002	0	0	0	29	4X 5ZE 6B 6C
18C802002	2002	0	0	0	41	4X 5ZE 6B 6C 4W
18CN93007	1993	0	7	0	0	4T
18CN93010	1993	0	6	0	0	4T 4S
18CN93044	1993	0	7	0	0	4T
18CN93049	1993	0	4	0	0	4S
18CN94003	1994	0	3	0	0	4S
18CN94027	1994	0	2	0	0	4S
18CN94028	1994	0	18	0	0	4T
18CN94029	1994	0	3	0	0	4T
18CN94030	1994	0	13	0	0	4T
18CN94039	1994	0	19	0	0	4T
18CN94040	1994	0	7	0	0	4T
18CN94048	1994	0	1	0	0	4S
18CN94050	1994	0	2	0	0	4T
18CN95003	1995	0	1	0	0	4S
18CN95020	1995	0	5	0	0	4T
18CN95024	1995	0	11	0	0	4S 4T
18FC93015	1993	0	42	0	0	4VN
18FC94034	1994	0	82	0	0	4T
18FC94037	1994	0	10	0	0	4T
18FC95042	1995	0	26	0	0	4T
18FL93009	1993	0	39	0	0	4T 4S
18FL93016	1993	0	136	0	0	4R 4S
18FL93032	1993	0	46	0	0	4S 4R
18FL93039	1993	0	7	0	0	4T
18FL93052	1993	0	28	0	0	4VN
18FN02003	2002	0	0	0	7	4X 4W
18FN02004	2002	0	0	0	51	4W 4X 5Y 6A 6B 6C
18GA93001	1993	0	121	0	0	3PN 4R 4VN 4S 4T
18GA94011	1994	0	85	0	0	3PN 4R 4S 3PS 4VN
18GB94017	1994	0	28	0	0	4T
18HE01004	2001	0	0	56	0	4T 4S 4R 4VN
18HE02003	2002	0	0	60	0	4T 4S 4R 4VN

18HL02001	2002	0	0	0	40	4W 4X 5ZW 5ZE 4VN 4T 4S
18HL02002	2002	0	0	0	37	4W 4VS 3O 3PS 3N 3L 3M 3K
18HU00050	2000	0	0	53	0	4W 4X 4VS 4VN 4R 3PS
18HU00066	2000	0	20	0	0	4X 3PS 4W
18HU01009	2001	0	1	66	0	4W 4X 4VS 4VN 4R 3PN 4T 4S 3PS
18HU01061	2001	0	0	62	0	4W 4X 4VS 4VN 4T 4R 4S 3PS
18HU01064	2001	0	0	77	0	4VN 4S 4R 4T
18HU02054	2002	0	1	1	0	4W
18HU02064	2002	0	3	0	0	4W
18HU02070	2002	0	92	89	12	3L 3N 3O 3M 3K
18HU98051	1998	0	0	89	0	4T 4S 4R 4VN
18HU99005	1999	0	0	38	0	4X 4W 4VS 4VN 4R
18HU99054	1999	0	0	56	0	4W 4X 4VS 4VN 3PS 4R
18IS01009	2001 2002	0	0	0	25	4X 4W 4VS 3O 3N 3M
18IS02001	2002	0	0	0	12	4X 4W
18IS02002	2002	0	0	0	14	4X 4W
18IS02003	2002	0	0	0	36	5ZE 4X 6B 6C
18IS79016	1979	0	0	0	4	4W 3M 3K
18LH89018	1989	0	45	0	0	4T 4S
18LL91064	1991	0	163	0	0	4T
18MF02023	2002	0	0	43	0	4T 4S 4R 4VN
18MF02066	2002	0	0	66	0	4S 4T 4R 4VN
18MF02068	2002	0	45	0	0	4T 4S
18MF99017	1999	0	60	0	0	4T 4S 4R
18MP02002	2002	0	0	0	14	4W 4X
18MP02003	2002	0	0	0	30	4X 4W 5ZE 6B 6C
18MP02004	2002	0	0	0	1	3M
18MQ02001	2002	0	0	0	3	4W 4VN 3PS
18MQ02002	2002	0	0	0	6	4X 4VN 4T
18MQ02003	2002	0	0	0	44	6A 5ZW 5ZE 4R 3K 2J 2H
18MQ02004	2002	0	0	0	24	4W 4VS 3PS 3L
18MQ02005	2002	0	0	0	8	4X 4W
18NA00005	2000	0	38	0	0	4W 4VN 4T
18NA00046	2000	0	22	0	0	4VN 4T 4W
18NA91044	1991	0	17	0	0	4VN
18NA93008	1993	0	23	0	0	4VN
18NA97047	1997	0	13	0	0	4VN
18NA97056	2001	0	5	0	0	4VN
18NE00031	2000	0	0	120	0	4W 4VS 4VN
18NE01042	2001	0	232	0	0	3PN 4VN 4R 4T 3K 4S
18NE02001	2002	0	8	8	0	4VS 4W
18NE02002	2002	0	0	89	0	5ZE 4W
18NE02003	2002	0	0	121	0	4W 4VS 4VN
18NE02037	2002	0	118	0	0	4W 4X 5Y
18NE02040	2002	0	94	0	0	4W 4VS 4VN
18NE02051	2002	0	175	0	0	4T 4VN 4W
18NE02067	2002	0	12	0	0	4X 4W

18NE92010	1992	0	103	0	0	4S 4R 4VN
18NE92055	1992	0	205	0	0	4T 4VN 4R 4S
18NE93045	1993	0	227	0	0	3PN 4R 4VN 4T 4S
18NE94024	1994	0	148	0	0	4T 4S
18NE94038	1994	0	132	0	0	4R 4S 4T
18NE95026	1995	0	3	0	0	4T
18NE99029	1999	0	0	106	0	4W 4VS 4VN
18OK02001	2002	0	7	0	0	3PS
18OK02002	2002	0	5	0	8	3PS
18OK02003	2002	0	23	0	0	3L
18OK02004	2002	0	5	0	6	3L
18OK02005	2002	0	13	0	0	3L
18OK02006	2002	0	8	0	0	3K 3L
18OK02007	2002	0	9	0	0	3L
18OK02008	2002	0	11	0	0	3L
18OK02009	2002	0	14	0	0	3L 3PS
18OK02010	2002	0	0	0	7	3PS
18OK02011	2002	0	36	0	0	3L
18OP02668	2002	0	3	0	0	4T
18PA02031	2002	0	3	0	0	4X
18PE87011	1987	0	132	0	0	4T 4VN 4S
18PE88021	1988	0	135	0	0	4T 4S 4VN
18PE89024	1989	0	130	0	0	4T 4S
18PE90024	1990	0	119	0	0	4T 4S
18PE91020	1991	0	104	0	0	4T 4S
18PE92029	1992	0	121	0	0	4T 4S
18PE93028	1993	0	74	0	0	4T
18PY02668	2002	0	10	0	0	4T
18PZ00002	2000	0	0	68	0	4W 4X 4VS 4VN 3PS 4R
18PZ97042	1997	0	0	67	0	4W 4VN 4R 4S 4T
18PZ99028	1999	0	0	1	0	4W
18S602001	2002	0	0	0	1	3M
18S902666	2002	0	5	0	0	4W
18SN01903	2001	0	2	0	0	0A
18TL02001	2002	14	2	0	0	3L 3PS
18TL02002	2002	0	2	0	0	3L 5ZE
18TL02003	2002	0	15	0	0	3L 3PS
18TL02004	2002	26	2	0	0	3L 3PS
18TL02005	2002	0	107	0	26	3L 3O 3N 3M 3K
18TL02006	2002	33	2	2	88	3L 3K 3O 3PS
18TL02007	2002	0	47	2	0	3L
18TL02008	2002	24	6	1	0	3PS 3L 3K 2J
18TL02009	2002	0	1	1	5	3L 3N
18TL02010	2002	0	109	108	55	3L 3M 3K 2J 2H 2G
18TL02011	2002	130	2	1	31	3L 3PS 4VS 4VN 4R 3PN
18TL02012	2002	2	2	2	1	3L
18TL02013	2002	29	2	2	4	3L 3O 3N
18TL02014	2002	41	2	0	18	3L 3N 3M
18TL02015	2002	7	1	1	0	3L 3M

18TL02017	2002	73	1	1	1	3L 3K 2J
18TL02019	2002	0	9	1	0	3L 3PS
18TL02020	2002	13	1	1	1	2J 3L
18TL95004	1995	0	41	0	0	3PN 4R
18TR01005	2001	0	0	0	4	4W 3N 3M
18TR02001	2002	0	0	0	46	4X 5ZW 5ZE 6A 4W 5Y 4VN
18TR02002	2002	0	0	0	5	4W
18VA02003	2002	0	1	0	0	3L
18VA02005	2002	0	1	0	0	3L
18VA02007	2002	0	1	0	0	3L
18VA02008	2002	0	0	0	29	3N 3O 3L
18VA02036	2002	0	1	1	0	3L
18VA02037	2002	0	1	1	0	3L
18VA98901	1998	0	54	0	0	4X
18WA02916	2002	0	7	7	0	4W 4X
317F72001	1972	0	9	0	0	6A
317F72002	1972	0	1	0	0	6A
317F72003	1972	0	9	0	0	6A
317F72004	1972	0	9	0	0	6A
317F72005	1972	0	8	0	0	6A
317F72006	1972	0	6	0	0	6A
317F72007	1972	0	22	0	0	6A
317F72008	1972	0	26	0	0	6A
317F72009	1972	0	25	0	0	6A
317J70001	1970	0	0	48	0	6A
317J70002	1970	0	0	20	0	6A
317J70003	1970	0	0	24	0	6A
317J70004	1970	0	0	6	0	6A
317J70005	1970	0	0	8	0	6A
319060002	1960	0	0	9	0	6F 6G 6H
319088001	1988	0	0	0	122	3L 2J 3K 2H 1F 1E 1B 1C 1D 1A
319088002	1988	0	0	0	63	4W 4X 4VS 3O 3N 3M
319962011	1962	0	0	2	0	2J 1F
319979003	1979	0	0	16	0	6D 6E 6B
319980009	1980	0	0	0	4	6C 6D
319984002	1984	0	1	0	0	6E
319988004	1988	0	0	0	1	3K
319C51006	1951	0	0	61	0	6B
319C51007	1951	0	0	204	0	6B
319C51008	1951	0	0	211	0	6B
319C51009	1951	0	0	195	0	6B
319C51010	1951	0	0	38	0	6B
319C51014	1951	0	0	168	0	6B
319C51015	1951	0	0	102	0	6B
31A368001	1968	0	0	6	0	5ZW
31A368002	1968	0	0	9	0	5ZW
31A368003	1968	0	0	6	0	5ZW
31A495013	1995	0	37	0	0	5ZE 4X
31A498004	1998	0	1	0	0	6C

31A498007	1998	0	1	0	0	6A
31DL67001	1967	0	0	90	0	6A 6B
31KE80004	1980	0	44	0	0	6A 6B
31KE81002	1981	0	48	0	0	6C 6B 6A
31LI59001	1959	0	0	18	0	5Y
31LI59002	1959	0	0	3	0	5Y
31WH01001	2001	0	4	0	0	5ZW
31WH01002	2001	0	1	0	0	5ZW
31WH01003	2001	0	2	0	0	5ZW
329L01001	2001	0	3	0	0	6C 6B
329L01002	2001	0	2	0	0	6C 6B
329L01003	2001	0	28	0	0	5ZW
329L01004	2001	0	41	0	0	5ZW
329L01005	2001	0	16	0	0	5ZW 5ZE
329L01006	2001	0	18	0	0	5ZW
329L01007	2001	0	27	0	0	5ZW 5ZE
329L01008	2001	0	4	0	0	5ZW
329L01009	2001	0	14	0	0	5ZW
329L01010	2001	0	3	0	0	6B
32E301008	2001	0	0	0	13	6C 6B 6D 6E 4VS 4W 3M 3N
32E301009	2001	0	0	0	1	3M
32E301010	2001	0	0	0	6	3M 3N 4W 4VS 4X
32E301011	2001	0	0	0	4	6F 6H 6G
32E301012	2001	0	0	0	5	6H 6E
32E301013	2001	0	0	0	5	6E 6D
32E301014	2001	0	0	0	15	6F 6H 6G 6E 6D
32E301015	2001	0	0	0	1	6A
32E302001	2002	0	0	0	1	6G
32E302002	2002	0	0	0	11	6H 6E 6F 6B 6D
32E399005	1999	0	0	0	6	6G 6H
32E399006	1999	0	0	0	12	6H 6G 6F 6D 6E 5ZE
32E399007	1999	0	0	0	23	6H 6G 6F 6E 6D 5ZE 5ZW 6B 6C 4VS 4W 3O 3N 3M
32E399008	1999	0	0	0	8	3M 3O 3N 3PS 4W 4VS
32EV95008	1995	0	37	0	0	5ZE
32EV96005	1996	0	90	0	0	5ZE 4X
32OC96001	1996	0	52	0	0	5ZE 4X
32OC96002	1996	0	29	0	0	5ZE 4X
32OC98002	1998	0	40	0	0	5ZE 4X
32OD02003	2002	0	0	0	17	6A 6B 6D
32OD02004	2002	0	0	0	1	6B
32OD02005	2002	0	0	0	19	6A 6B
32OD02006	2002	0	0	0	1	6D
32OD99012	1999	0	0	0	13	6A 6B 6D
33DB01010	2001	0	0	0	11	6H 6F 6G 5ZE 4W 4X
33DB02001	2002	0	0	0	13	6H 6G 6F 6E
33EN01010	2001	0	0	0	9	6D 4VS 4W 3N 6H 6G
33EN01011	2001	0	0	0	1	6D
33EN01012	2001	0	0	0	6	6C 6D 4VS 4W 3N

33EN02001	2002	0	0	0	4	6C 6B
33EN02002	2002	0	0	0	1	6D
33EN99003	1999	0	0	0	1	6D
33EU99005	1999	0	0	0	10	6H 6F 6G 6E 6D
33EU99006	1999	0	0	0	7	6D 6E 6F 6G 6H
33EU99007	1999	0	0	0	4	6G 6F 6C
33SC98010	1998	0	0	0	5	6A 6B 6C
33SC99004	1999	0	0	0	1	6B
33SC99005	1999	0	0	0	1	6B
33SC99006	1999	0	0	0	5	6C 6B 6A
33SC99007	1999	0	0	0	6	6A 6B 6C
33SE01017	2001	0	0	0	2	6B 6C
33SE01018	2001	0	0	0	2	6B 6A
33SE01019	2001	0	0	0	3	6B 6C
67WI77006	1977	0	0	76	0	5ZW 5Y 4X 5ZE
67WI78014	1978	0	0	31	86	3L 3M
74CZ72001	1972	0	0	42	0	1F 1E 1D 1C
74CZ73001	1973	0	0	15	16	1F 1D 1C 1E
74EH52001	1952	0	0	42	0	1F
74NO99003	1999	0	0	0	1	6D
74NO99004	1999	0	0	0	1	6D
90GE79017	1979	0	0	205	0	3M 3N 3L 3K
90MU76022	1976	0	0	40	0	6H 6F 6G 6E 6D 6B 6A 5ZE 4X 4VS 3PS 3L 3K
90P377019	1977 1978	0	0	102	0	3K 2J 0B 2G 2H 3M 3L
90PE77018	1977	0	0	398	0	3L 3M 3N 3O 6G 3K
90SU79002	1979	0	0	311	0	3M 3N 3L 3O 3K 2J
AGGD02003	2002	0	0	0	9	4X 5Y 5ZW
AGHA99021	1999	0	0	0	14	3L 3K 2J 1F
BHAS99001	1999	0	0	0	1	6C
SISF99010	1999	0	0	0	2	5ZW
SISF99011	1999	0	0	0	10	1F 2J 3K
SISF99012	1999	0	0	0	6	4X 5Y

Table 5: Drifting buoy data received during 2003.

Total= 75001 messages

BUOY	DATE RANGE	DAYS	SST	AP	AT	WS	WD	TC	NAFO Subarea
25548	Feb-24 - Sep-05	193	-	X	-	-	-	-	6B
41574	Jun-18 - Dec 31	197	X	X	-	-	-	-	6C 6B 6D 5ZE 4X 4W 4VS 3O 3N
41575	Aug-06 - Dec 04	120	X	X	-	-	-	-	6C 6D 6E 6F
41576	Aug-06 - Dec 03	119	X	X	-	-	-	-	6C 6B 6D 6E 6F 4VS 6G 3O 3N 3M 6H
41577	Aug-06 - Oct-18	73	X	X	-	-	-	-	6C 6D 6E
41578	Aug-06 - Dec 31	147	X	X	-	-	-	-	6C 6B 6D 6E 4X 4W 4VS 6G 6F
41600	Dec 10 - Dec 31	22	X	X	X	-	-	-	6C 6D
41643	Dec 12 - Dec 31	20	-	-	-	-	-	-	6C 6D
41658	Jan-01 - Jan-08	8	X	X	X	-	-	-	3M
41665	Mar-04 - Oct-20	231	X	X	-	-	-	-	3M 5ZW
41666	Jan-12 - Nov-16	309	X	X	X	-	-	-	6G 6H 6F 4VS
44501	May-09 - May-09	1	X	X	-	-	-	-	3O
44503	Jun-19 - Oct-20	124	X	X	-	-	-	-	3L 3O 3PS
44504	Jun-19 - Dec 30	195	X	X	-	-	-	-	3N 3L
44506	Jun-19 - Dec 02	167	X	X	-	-	-	-	3N 3O 3M
44507	Jun-20 - Aug-06	47	X	X	-	-	-	-	3M 3N
44508	Jul-28 - Dec 31	156	X	X	-	-	-	-	3O 3PS 4VS
44512	May-08 - Dec 31	238	X	X	-	-	-	-	3N 3L
44514	Jan-01 - May-15	135	X	X	-	-	-	-	4VS 3PS 3O 3N 3M
44515	Jan-01 - Feb-23	54	X	X	X	-	-	-	6C
44546	Sep-22 - Dec 10	80	-	X	X	X	X	-	2J 3K 3L 3M
44551	Jun-10 - Oct-18	131	X	X	X	X	X	-	4VS 3O 3N 3M 3K
44585	Jan-09 - Dec 01	327	X	X	X	X	X	-	4X 5Y 5ZE
44601	Mar-20 - Jun-16	89	X	X	X	X	X	-	6H
44604	Mar-04 - Oct-26	237	-	X	X	-	-	-	3K 2J 2H 1F
44605	May-05 - Aug-24	112	X	X	X	-	-	-	1F 2J 3K
44606	Aug-01 - Oct-25	85	X	X	X	-	-	-	6G 6F 6E 4W
44607	Jan-01 - Jan-12	12	X	X	X	-	-	-	6H 3M
44610	Jan-01 - Jan-27	27	X	X	X	-	-	-	3N 3M
44611	Jan-01 - Jan-12	12	X	X	X	-	-	-	3M 3K
44612	Jan-01 - Nov-29	333	X	X	X	-	-	-	3K 2J 1F
44613	Jan-01 - Jan-24	24	-	X	X	-	-	-	3K 2J
44614	Jun-14 - Oct-21	129	X	X	X	-	-	-	1F
44615	Mar-10 - May-15	67	X	X	X	X	X	-	3N 3M 3L
44616	Dec 09 - Dec 31	23	-	X	X	-	-	-	1F
44617	Dec 19 - Dec 31	13	X	X	X	-	-	-	2J
44620	Apr-04 - Apr-09	5	X	X	X	X	X	-	3M
44621	Dec 18 - Dec 31	14	X	X	X	-	-	-	1F
44622	Apr-30 - May-06	6	X	X	X	-	-	-	3K
44623	Jun-10 - Aug-28	79	X	X	X	-	-	-	6B 6C 6D 6E 4W 4VS 3N 3M 6H
44624	Dec 29 - Dec 31	3	-	X	X	-	-	-	2J
44626	Jun-10 - Dec 31	205	X	X	X	-	-	-	6B 5ZW 6A 6D 6E 4X 5ZE
44628	Jun-10 - Jul-20	41	-	X	X	-	-	-	6D 6E 4W 4VS 6F 6G 3O 3N 3M 6H

44630	Jun-10 - Oct-30	142	X	X	X	-	-	-	6D 6E 4W 6F 4VS 6G 3N 6H
44651	Mar-07 - Apr-29	53	-	-	-	-	-	-	4S 4R
44652	Mar-07 - Mar-22	16	-	-	-	-	-	-	4S 4R
44653	Mar-15 - Apr-07	23	-	-	-	-	-	-	4T 4S 4R
44654	Mar-06 - Dec 09	278	-	-	-	-	-	-	4S 4R 4X
44655	Feb-21 - Mar-09	17	-	-	-	-	-	-	4T 4S
44657	Feb-21 - May-18	87	-	-	-	-	-	-	4T 4S 4VN 4R 3PN 3L
44658	Apr-10 - Apr-29	19	-	-	-	-	-	-	2G 2H
44659	Mar-18 - Apr-02	16	-	-	-	-	-	-	2G 2H 2J
44660	Apr-10 - May-22	43	-	-	-	-	-	-	2H
44726	Jun-01 - Oct-12	134	X	X	X	-	-	-	1F 1E 1D 1C 1B 0B
44730	Jan-08 - Feb-06	30	-	X	X	-	-	-	3L 3K 3M 2J 1F
44741	Jun-10 - Dec 31	205	X	X	X	-	-	-	5ZW 6A 6B 6C 5ZE 6D 6E 4X 4W 4VS 3O 3N 3M
44742	Sep-17 - Dec 31	106	X	X	X	-	-	-	3L 3N 3O
44743	Sep-17 - Dec 31	106	X	X	X	-	-	-	3K 3L 3M 2J
44744	Aug-21 - Oct-29	70	X	X	X	-	-	-	3K 3M
44745	Sep-15 - Oct-23	38	X	X	X	-	-	-	2J 1F
44746	Oct-31 - Dec 06	37	-	X	X	-	-	-	1F 2H 2J
44747	Sep-30 - Oct-27	28	X	X	X	-	-	-	1F 2J 3K
44761	Oct-29 - Dec 31	64	-	X	X	-	-	-	3L 2J
44762	Sep-30 - Sep-30	1	X	X	X	-	-	-	1F
44765	Oct-17 - Dec 31	76	X	X	X	-	-	-	3L 3O 3PS 4VS 4W
44766	Oct-15 - Oct-25	11	X	X	X	-	-	-	3K
44768	Jan-01 - Dec 31	365	X	X	X	-	-	-	3N 3M 3PS 1F
44771	Sep-25 - Nov-02	39	-	X	X	-	-	-	3L 3N 3M
44772	Dec 29 - Dec 31	3	-	X	X	-	-	-	1F
44777	Apr-17 - Apr-26	10	-	X	X	-	-	-	3M
44778	Apr-18 - Jun-13	57	-	X	X	-	-	-	3N 3O 3M
44780	Apr-21 - Nov-12	206	-	X	X	-	-	-	1F 2H
44833	Jun-16 - Dec 03	170	X	X	-	-	-	-	4VS 3O 3N 3M
44834	Jun-16 - Oct-08	114	X	X	-	-	-	-	6B 6C 6D 6E 4W 4VS 6F 3N 3M
44835	Jun-16 - Jun-24	9	X	X	-	-	-	-	3N 3M
44836	Jun-18 - Dec 30	195	X	X	-	-	-	-	4VS 3PS 4VN 4W
44837	Jun-17 - Dec 27	193	X	X	-	-	-	-	4X 4W 5ZE 4VS
44838	Jun-18 - Nov-27	162	X	X	-	-	-	-	3M 3N
46553	Apr-02 - Apr-02	1	X	X	-	-	-	-	4X
47554	Jan-01 - Aug-06	218	-	X	-	-	-	-	0A
47555	Sep-26 - Sep-26	1	-	-	-	-	-	-	4X
48536	Sep-05 - Sep-05	1	-	X	-	-	-	-	6B
62696	May-30 - Oct-29	152	X	X	X	-	-	-	3K 3L 3M
62711	Jan-02 - Nov-24	327	X	X	X	X	X	-	1F 1E 2G 2H 2J 3K 3L 3M
62712	May-07 - Aug-12	98	X	X	X	-	-	-	1F
62771	Jan-20 - Jan-20	1	-	-	-	-	-	-	5Y
64606	Jan-01 - Sep-26	269	-	X	X	-	-	-	1F 1E 1D 0B 2G 2H 2J
65597	Oct-16 - Dec 31	77	X	X	X	-	-	-	1F 1E

Table 6a. Current data recovered and processed in 2003.

Latitude	Longitude	Sounding Depth (meters)	Instrument Depth (meters)	Start Date	End Date	Serial Number	Mooring Number
42.6901	61.5201	2015	565	June 12/02	Oct 22/02	Aanderaa # 2663	1429
“	“	“	815	“	“	Aanderaa # 3306	“
“	“	“	1100	“	“	Aanderaa # 3584	“
“	“	“	1616	“	“	Aanderaa # 4406	“
“	“	“	1990	“	“	Aanderaa # 4603	“
42.8443	61.6235	1144	309	June 25/02	May 22/03	Aanderaa # 1607	1432
“	“	“	159	“	“	Aanderaa # 5359	“
“	“	“	584	“	“	Aanderaa # 6410	“
“	“	“	834	“	“	Aanderaa # 7013	“
“	“	“	1119	“	“	Aanderaa # 9328	“
56.6766	52.4150	3518	118	July 4/02	July 25/03	Aanderaa # 5567	1452
“	“	“	768	“	“	Aanderaa # 5569	“
“	“	“	1268	“	“	Aanderaa # 5577	“
“	“	“	1768	“	“	Aanderaa # 6402	“
“	“	“	2518	“	“	Aanderaa # 6409	“
“	“	“	3482	“	“	Aanderaa # 7134	“
55.1201	54.0906	1032	1012	July 3/02	July 24/03	Aanderaa # 4208	1453
42.6931	61.5080	2101	651	Oct 20/02	April 14/03	Aanderaa # 2664	1454
“	“	“	901			Aanderaa # 4998	“
“	“	“	1186			Aanderaa # 5574	“
“	“	“	1702			Aanderaa # 5575	“
“	“	“	2077			Aanderaa # 5578	“
42.9851	61.7483	311	286	Oct. 19/02	Dec. 24/02	Aanderaa # 5002A	1455
“	“	“	311	Dec. 24/02	May 22/03	Aanderaa # 5002B	“
“	“	“	301	Oct. 19/02	Dec. 24/02	Aanderaa # 5572A	“
42.9851	61.7483	311	301	Dec. 24/02	May 22/03	Aanderaa # 5572B	1455
46.1606	60.4674	262	69	Oct. 16/02	June 4/03	Aanderaa # 4355	1462
“	“	“	119	“	“	Aanderaa # 7592	“
“	“	“	28	“	“	Aanderaa # 8695	“

Latitude	Longitude	Sounding Depth (meters)	Instrument Depth (meters)	Start Date	End Date	Serial Number	Mooring Number
“	“	“	59	“	“	Aanderaa # 7127	“
“	“	“	20	“	“	Aanderaa # 8697	“
46.0917	60.6811	72	66.5	Oct. 15/02	June 4/03	Aanderaa # 7122	1464
43.3936	57.6792	3692	553	Apr. 17/03	June 18/03	Aanderaa # 786	1474
“	“	“	1053	“	“	Aanderaa # 3196	“
“	“	“	502	“	“	Aanderaa # 4350	“
44.8314	56.1764	400	200	July 17/03	Sept. 30/03	Aanderaa # 4355	1492
“	“	“	300	“	Nov. 5/03	Aanderaa # 5032	“
“	“	“	375	“	“	Aanderaa # 5572	“
“	“	“	125	“	“	Aanderaa # 7192	“
42.6932	61.5080	2109	139	Oct. 20/02	April 16/03	RDI Adcp # 1646	1454
42.9852	61.7483	305.9	37.8	Oct. 19/02	Dec. 24/02	RDI Adcp # 104	1455
46.2915	60.4157	19.4	3.9	Oct. 15/02	June 3/03	RDI Adcp # 39	1465
55.4080	58.0591	98.7	35.5	Dec. 2/02	July 22/03	RDI Adcp # 511	1466
44.8314	66.1764	395	23	July 17/03	Nov. 5/03	RDI Adcp # 3469	1492
44.2999	63.2442	158.5	9.7	Oct. 19/03	Nov. 12/03	RDI Adcp # 511	1500

Current data recovered and not yet processed 2003.

Latitude	Longitude	Sounding Depth (meters)	Instrument Depth (meters)	Start Date	End Date	Serial Number	Mooring Number
74.0834	91.0502	154	84	Aug. 20/02	Aug. 4/03	RDI Adcp # 0505	1438
74.0818	91.0329	154	150	“	“	RDI Adcp # 1266	1439
74.1955	90.8511	279	79	“	“	RDI Adcp # 0499	1441
74.3205	90.7210	218	81	“	“	RDI Adcp # 0517	1443
74.5366	90.4249	205	88	Aug. 19/02	Aug. 30/03	RDI Adcp # 0493	1445
47.0011	47.2824	408	188	Nov. 27/02	July 19/03	RDI Adcp # 0239	1457
“	“	“	308	“	“	Aanderaa # 7650	“
“	“	“	383	“	“	Aanderaa # 4406	“

47.0015	47.0345	1123	103	Nov. 26/02	July 19/03	Aanderaa # 6403	1458
“	“	“	303	“	“	Aanderaa # 6411	“
“	“	“	503	“	“	Aanderaa # 3584	“
“	“	“	803	“	“	Aanderaa # 3306	“
“	“	“	1098	“	“	Aanderaa # 2663	“
46.2071	63.7576	21.9	21.5	Dec. 21/02	April 30/03	RDI Adcp # 0512	1469
44.3310	64.2478	15.5	15	May 24/03	July 3/03	RDI Adcp # 3560	1477
44.3321	64.2510	15.2	15	July 3/03	Sept. 11/03	RDI Adcp # 3560	1477
44.3325	64.2518	18.4	18	Sept. 11/03	Oct. 25/03	RDI Adcp # 3560	1477
43.8700	60.1954	37.2	35.8	Sept. 10/03	Nov. 4/03	RDI Adcp # 2935	1495

Table 6b. Current meters deployed in 2003 and not yet recovered.

Deployment Date	Instrument Type	Number of Instruments	Projected Recovery Date
July 14/03	Aanderaa	5	May 21/04
“	RDI Adcp	1	“
July 18/03	Aanderaa	9	June 12/04
“	RDI Adcp	2	“
Nov. 3/03	Aanderaa	4	June 12/04
“	RDI Adcp	1	“
Aug. 15/03	RDI Adcp	5	Aug. 15/04

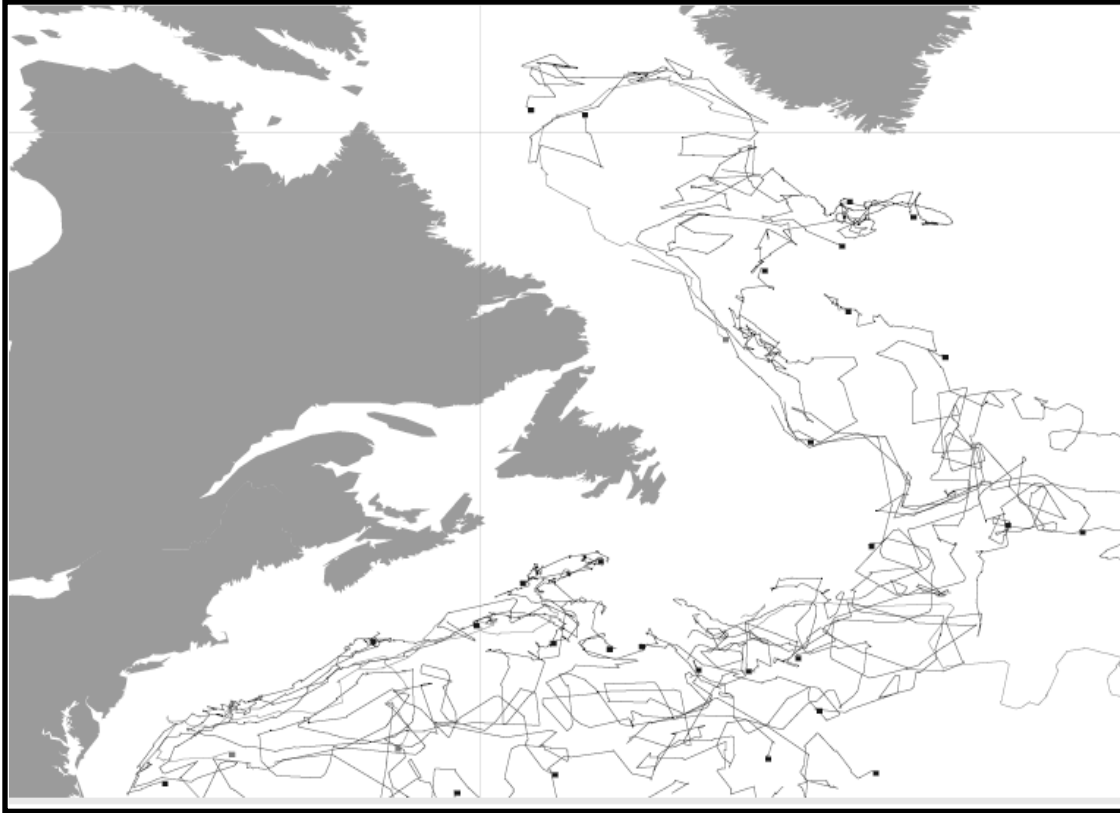


Fig. 1: Canadian Argo profiling floats May 2004

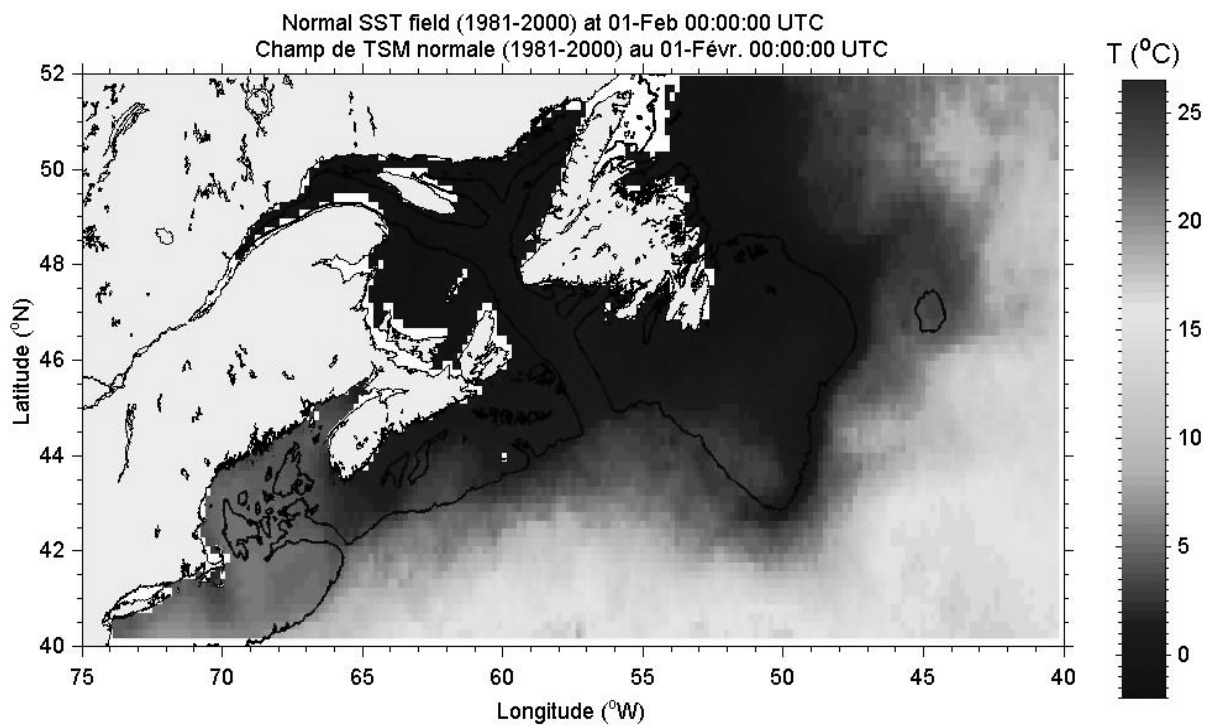


Fig. 2. 20 Year Sea-surface Temperature Climatology.

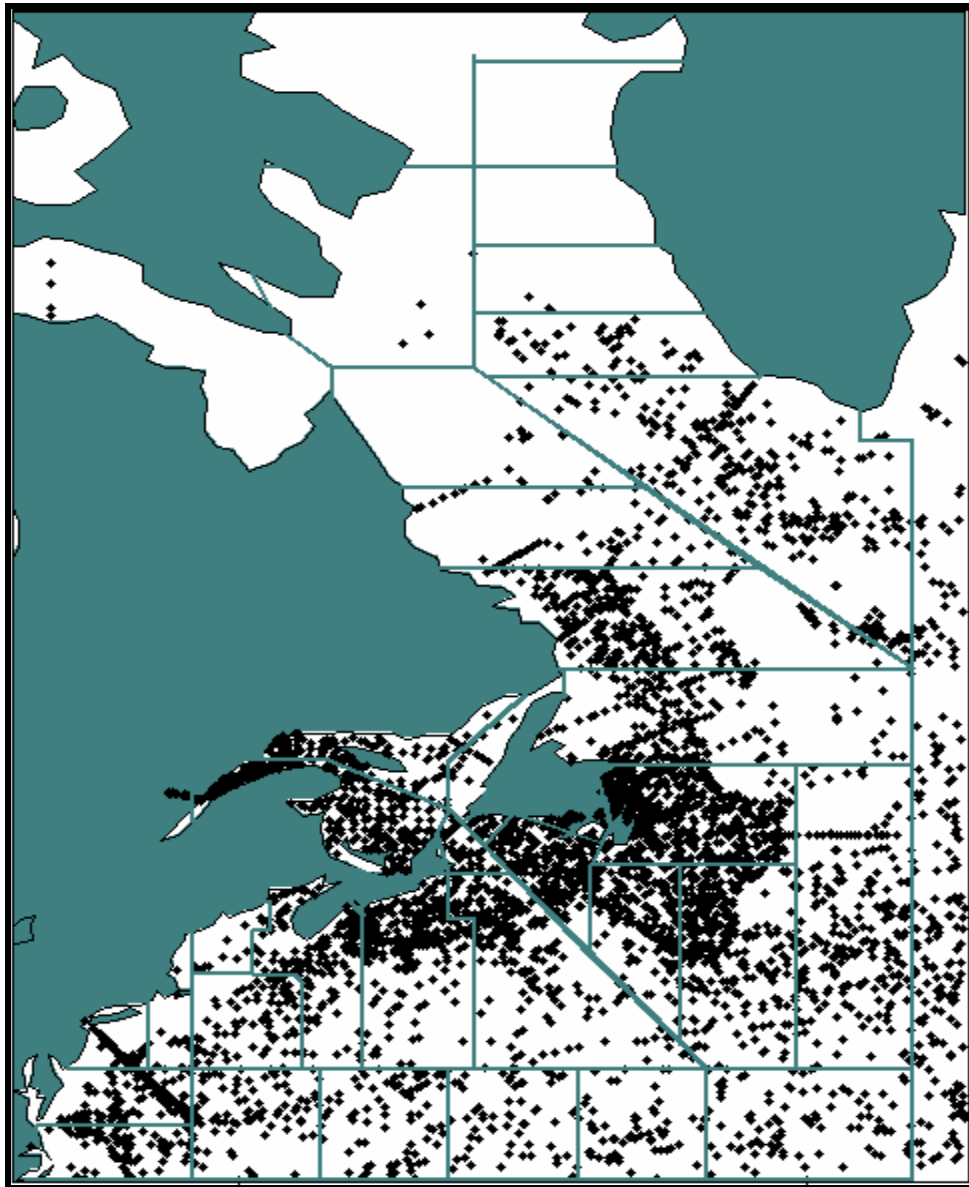


Fig. 3. Real Time Temperature-Salinity Stations 2003

Total = 9 303 Stations

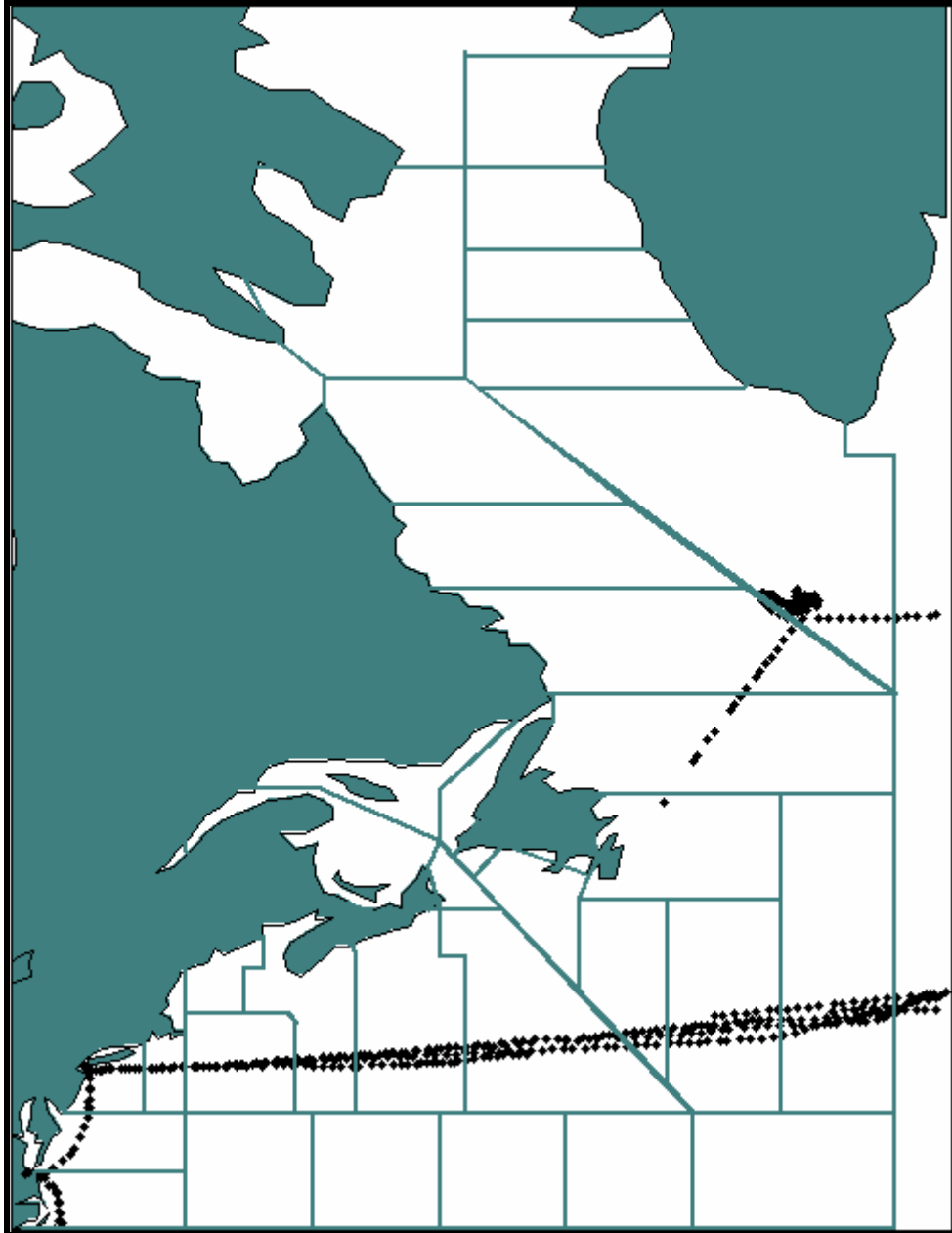


Fig. 4. Surface Thermosalinograph stations 2003

Total = 592 Stations

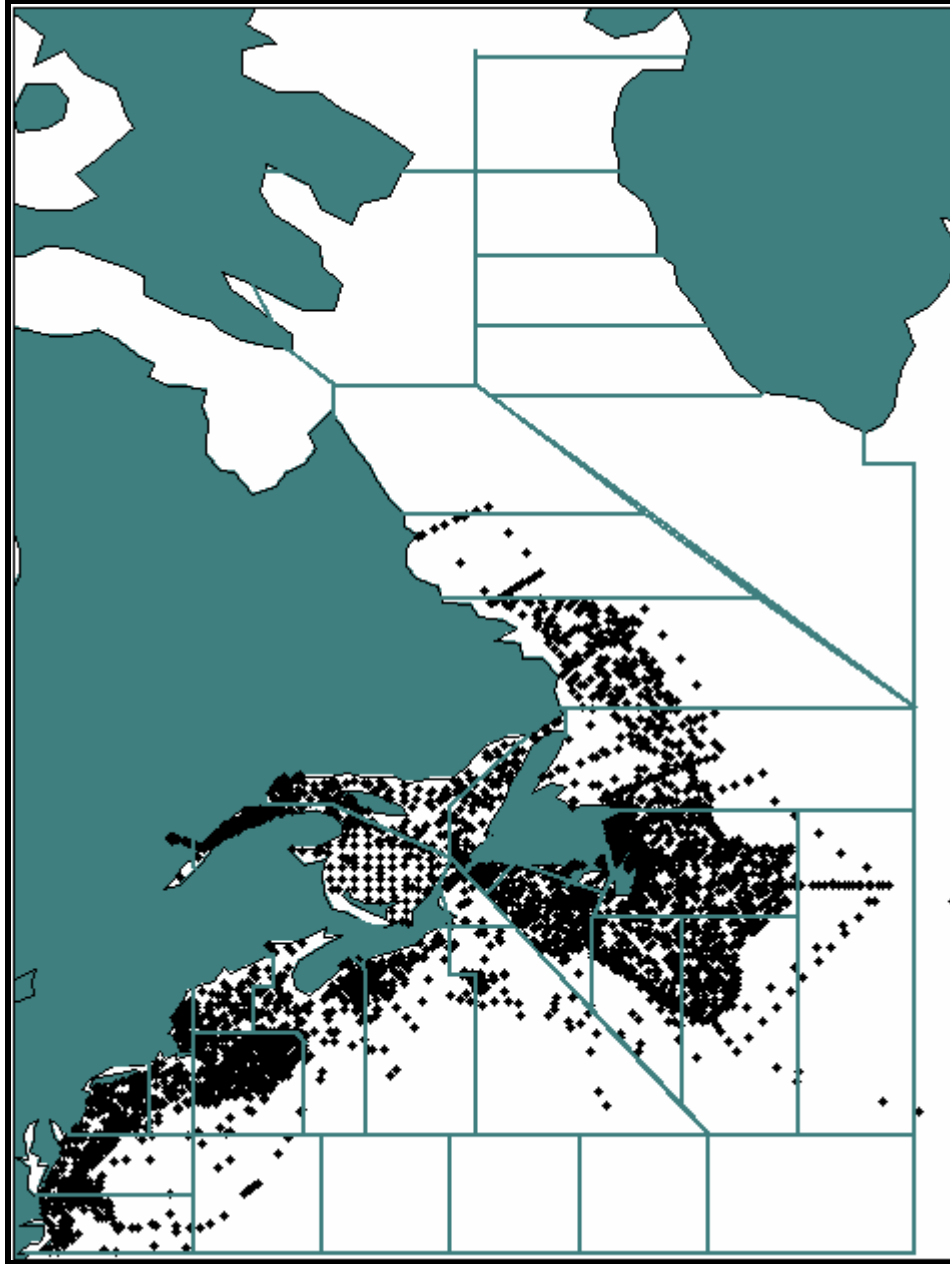


Fig. 5. Delayed mode profile stations 2003.

Total = 5 891 Stations

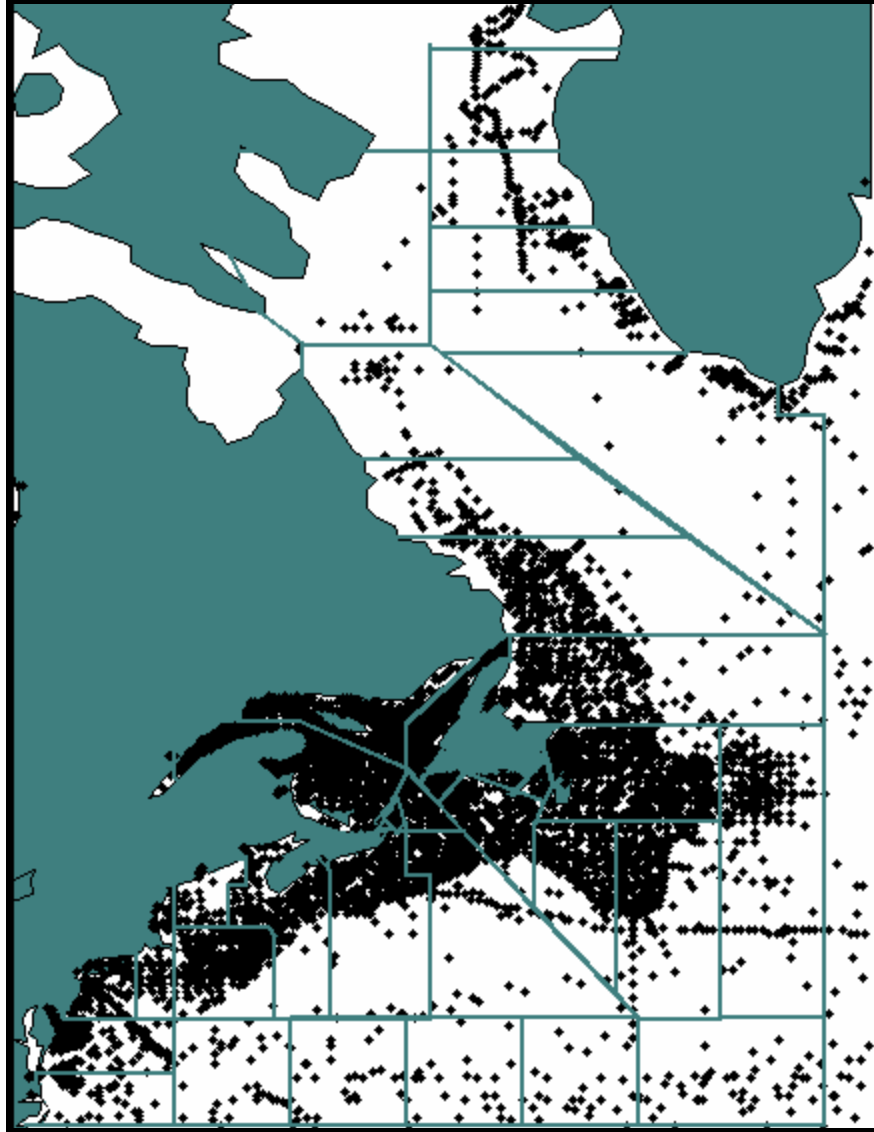


Fig. 6. Delayed mode profile stations collected before 2003 and processed in 2003. Total = 13 796 Stations

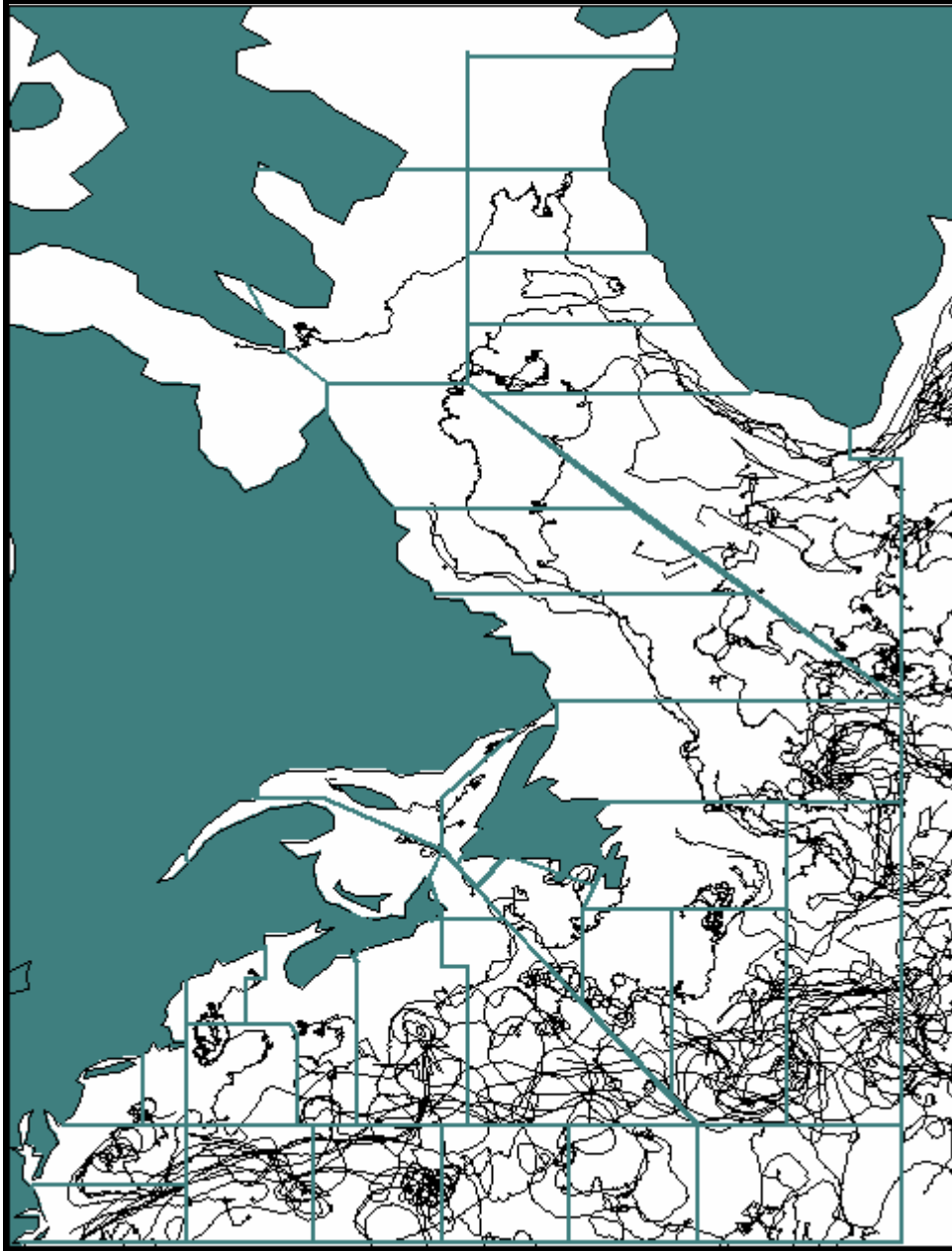


Fig. 7. Drifting Buoy messages 2003. Total = 75 001 Messages



Fig. 8. Wave Buoys in the NAFO Area in 2003.

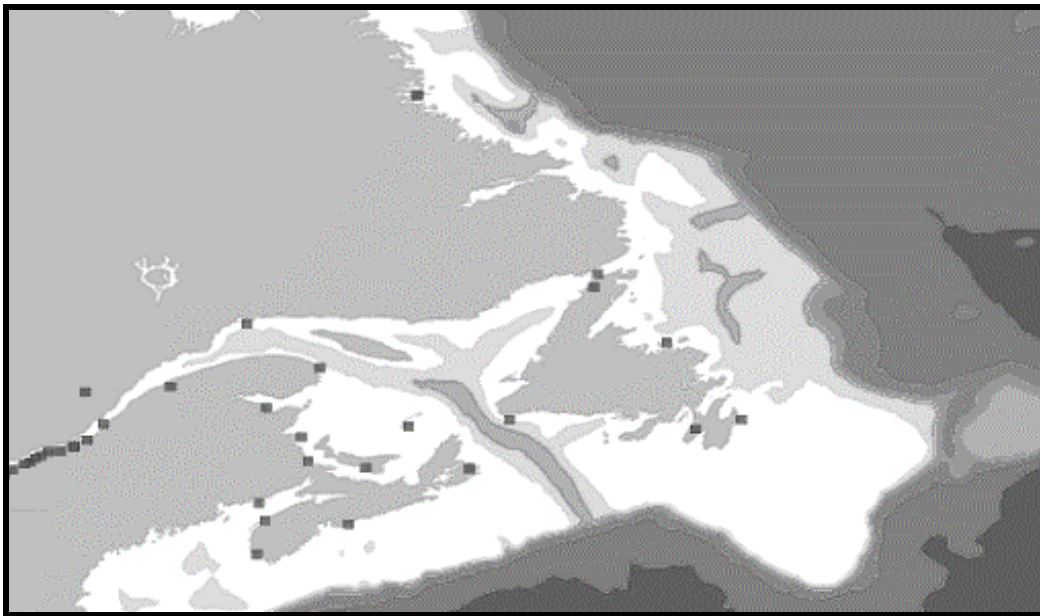


Fig. 9. Tide and water level data in the NAFO Area in 2003.