

Marine Environmental Data Service Report for 2001

by

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Summary

MEDS has the responsibility to be the Regional Environmental Data Center for NAFO, and as such is required to provide an inventory of environmental data collected in the NAFO area annually to the NAFO subcommittee for the environment (STACFEN). This year's report (June 2001) is for the calendar year of 2000. The report includes physical oceanographic inventories of profiles, drifting buoys, currents, waves, tides and water levels. It is important for STACFEN to encourage members to send data and information to the designated data centre in order to get significant return for NAFO.

Also included in this report are some of the recent activities at MEDS of interest to NAFO, such as:

- Archival of P-ALACE Float Data;
- Underway Sea Surface Salinity Project
- New CD-Roms;
- Atlantic Zone Monitoring Program.
- Ocean Portal

Background

MEDS has been recognized since 1975 as the Regional Environmental Data Center for ICNAF and subsequently for NAFO. As the regional center, MEDS is required to report on these data annually at the June Meeting of STACFEN, the Standing Committee of Fisheries and the Environment. 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 2001 required the submission to MEDS of a completed oceanographic inventory form for data collected in 2000, and oceanographic data pertinent to the NAFO area, for all stations occupied in the year prior to 2000. 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.

Contacting MEDS

Data that have been formatted and archived at MEDS are available to all interested scientists 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 WWW: www.meds-sdmm.dfo-mpo.gc.ca, or by writing to Services, Marine Environmental Data Service (MEDS), Dept. of Fisheries and Oceans, Station W 82, 12th Floor, 200 Kent St., Ottawa, Ont. Canada K1A 0E6.

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.

Recent Activities

1. Archival of Argo P-ALACE Float Data

Argo is a program to deploy profiling floats on a 3 by 3 degree grid in the oceans of the world. Each float will sample both T and S from 2000m to the surface every 10 days. Data will be relayed ashore and be distributed both on the GTS and from two Internet servers within 24 hours of the float reaching the surface. A number of countries are actively developing their processing systems for this program, and Canada is one of them. 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. We are developing a web site that will contain information about Canadian floats as well as some general information and statistics about the global array. MEDS program will be operational at or before the end of August of this year. General information will also be available from an Argo Information Centre being set up in Toulouse in conjunction with the SOOPIP and DBCP technical coordinator.

Figure 1:

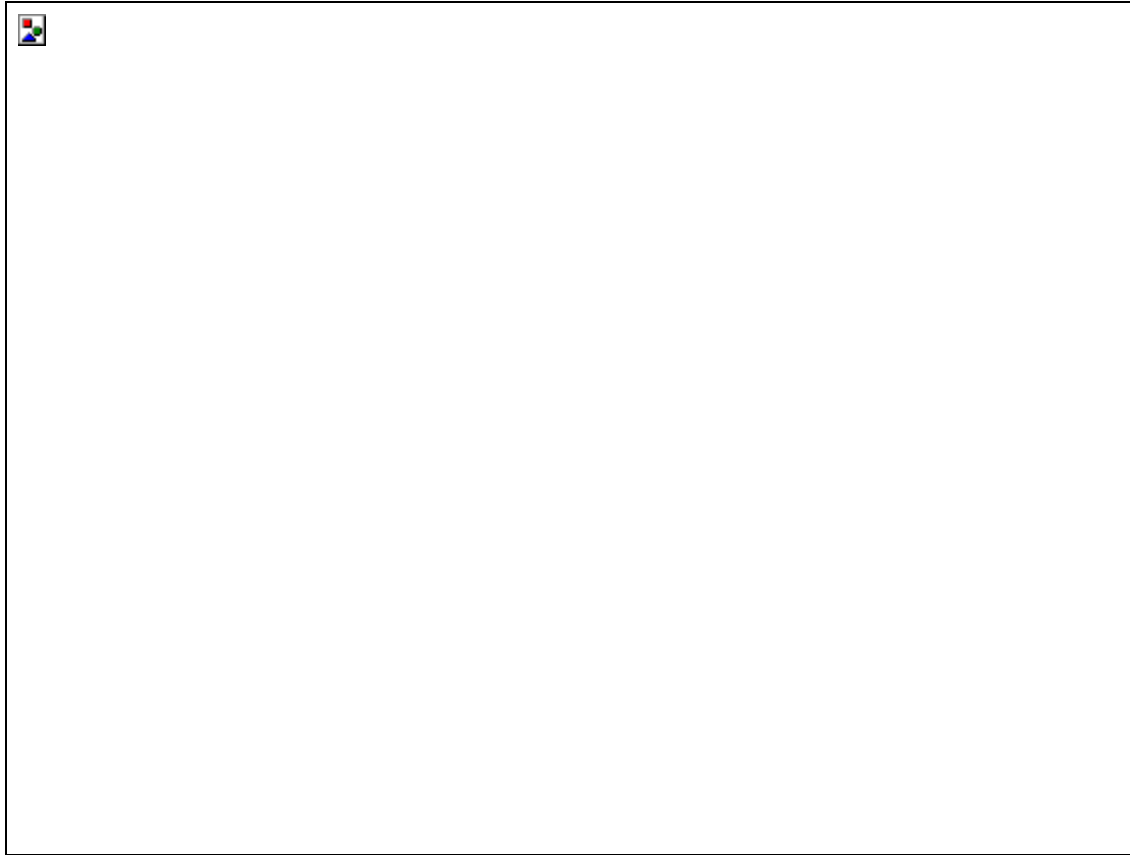
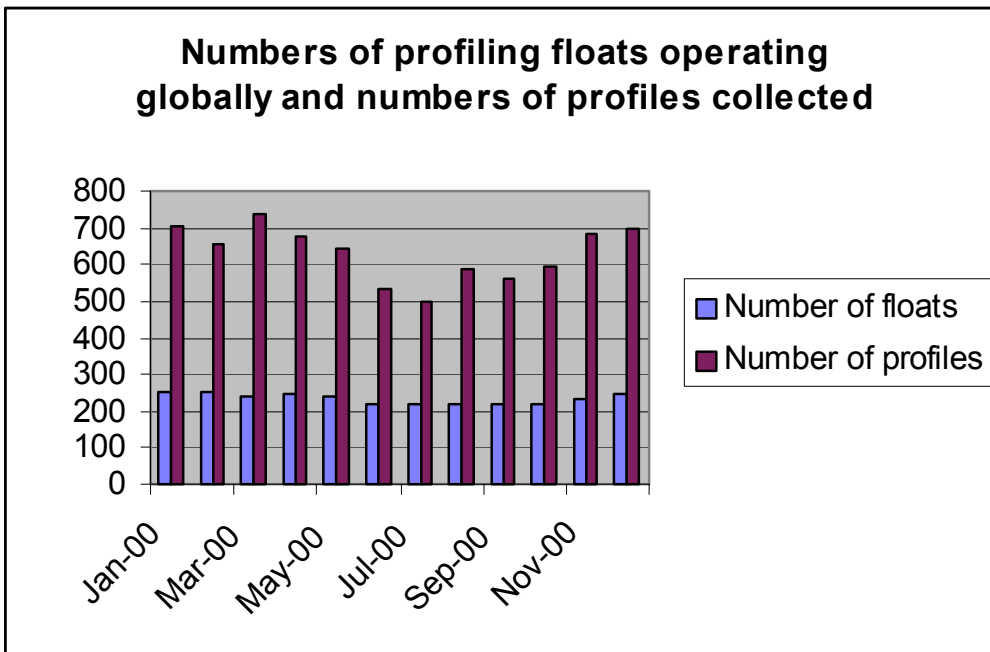


Figure 2:



2. Underway Sea Surface Salinity Project

At the IODE meeting held in November, 2000, a pilot project was initiated to handle surface salinity data collected while a platform is underway. Draft terms of reference were prepared which included the goals of acquisition, quality control, archiving in standard format, and dissemination of the data. There will be cooperation needed between data gatherers, centres and scientists using such data to ensure that proper care is taken in processing these data. A steering group initially chaired by IFREMER/SISMER and consisting of six other members (Canada, UK, Greece, Germany, US, ICES) was set up. The first meeting is planned for sometime in late 2001.

3. New CD-Roms

WOCE: The 2nd edition of the WOCE CDs was issued in June of 2000 and are available from the WOCE International project office. The SVP and UOT CDs are available from MEDS. The next and final version will be issued in September 2002.

International Arctic Buoy Programme (IABP): MEDS produced a CD that includes all GTS and interpolated data from 1979 to 1999 for the Arctic. The CD is distributed through MEDS.

Canadian Joint Global Ocean Flux Study (JGOFS): MEDS acts as the Canadian data centre for the Joint Global Ocean Flux Study (JGOFS). The acquired data from Canadian regional institutes is available on a CD-ROM and distributed through MEDS.

4. Atlantic Zone Monitoring Programme (AZMP)

DFO has funded a programme for the East Coast of Canada called the Atlantic Zone Monitoring Programme. The programme's activities include regular sampling of 6 fixed stations and occasional cruises in the AZMP area to collect 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. MEDS regularly receives physical and chemical data collected as part of the programme from IML, NWAFC, and BIO and posts it on the web site. Physical and chemical data from 1999 to the present are currently available on the website for 6 fixed stations and 13 sections. Climate indices have also been added to show long term trends of physical variables. Water level data for 9 gauges ranging from 1895 to the present are also available. Biological data will be stored in a nationally distributed database (BIOCHEM) that is presently being developed at BIO. In the mean time, graphical representations of biological data (phytoplankton) are currently being displayed on the web site but the data are not available. The AZMP web site address is: http://www.meds-sdmm.dfo-mpo.gc.ca/zmp/main_zmp_e.html

5. Ocean Portal

MEDS is involved in two projects that will make data and visualization tools available through the Internet. The first stems from our participation as a WOCE Data Assembly Centre (DAC). Each DAC has been asked to install a Distributed Ocean Data System server to make the data they manage available on the Internet. MEDS intends to do so. The second project is a partnership with the US NODC, PMEL (in Seattle) and U Hawaii to provide visualization tools and data through a development called the Climate Data Portal. Both of these projects use netCDF as the file format.

Data Inventories:

Ocean Subsurface Data

Vertical profiles are collected worldwide with water sampling bottles and electronic instruments. These subsurface measurements include temperature, salinity, oxygen, a wide variety of nutrients and chemicals, and biological and other physical variables. Derived parameters, such as sigma-t and geopotential anomaly can be computed upon request.

MEDS becomes aware of surveys of the physics and chemistry of the water column, directly, by delivery of these data to MEDS from responsible institutions and the IGOSS reporting system, and, indirectly, from Cruise Summary Reports and other reports of ocean cruise activity. Table 1a identifies data collected in the NAFO area in 2000 but not yet received at MEDS. Table 1b list data collected in the NAFO area in 2000, received at MEDS but not yet archived. Table 2 gives a summary of the MEDS IGOSS archive for data received during 2000. Thermosalinograph data are now being included in the report as table 2b. Table 3 gives a summary of the delayed-mode data received for 2000, which have been processed and archived. Table 4a list data processed

and archived, in the past year, that were in the NAFO area, but for years prior to 2000. Table 4b lists those datasets that were received in the past year for years prior to 2000 but have not yet been processed.

Ocean subsurface data is processed at MEDS in much the same way for each of the data sets described in tables 2 and 3. Electronic files are converted from a wide range of formats, into a common Ocean's 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. The second is to identify duplication, and select the best version of a message, based on data type, source of the data, and general qualities in analysis and reporting of the observations. The third check identifies and, if possible, corrects the date/time and geographical positioning information of each message 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 constituents, is also visually inspected using software to plot the data and allow a technician to set quality flags to individual points on a profile.

The tables show summaries of data for the NAFO area. Much of the data MEDS has been aware of, for 2000, has been processed and made available to scientists conducting environmental assessments of the NAFO area. Table 3 includes data from net mounted CTDs.

Table 1a: Data collected in the NAFO area in 2000, not yet received at MEDS.

Inventory of Oceanographic Stations in the Northwest Atlantic

Year: 2000

Country: Germany

NAFO STANDARD SECTION

Ship Name	Sub-area	Date Span	Name	Stations	Type	Parameters
Walther Herwig	1	06/10/2000	C.Desol	2	CTD	T,S
	1	08/10/2000	Fredr.H.	3	CTD	T,S
	1	12-13/10/2000	Fyllas B.	5	CTD	T,S
	1	15-16/10/2000	Hellef	5	CTD	T,S

OTHER STATIONS

Ship Name	Seasons	JFM	AMJ	JAS	OND	Stations	Type	Parameters
Walther Herwig					X	57	CTD	T,S

Table 1b: Data collected in the NAFO area in 2000, received at MEDS but not yet archived.

Start	End	S#	Ships	Name	Cruise	ZONE	CTDs	XBTs	Totals
04/01/00	16/01/00	39	Teleost		089	2J3KL	22	0	22
03/02/00	03/02/00	27	CCG206		008	3L	1	0	1
24/01/00	24/01/00	27	CCG206		007	3L	1	0	1
21/02/00	21/02/00	27	CCG206		009	3L	1	0	1
29/02/00	29/02/00	27	CCG206		010	3L	1	0	1
15/03/00	15/03/00	27	CCG206		011	3L	1	0	1
04/04/00	04/04/00	27	CCG206		012	3L	1	0	1
01/04/00	20/04/20	03	Shamook		325	3LPs	9	0	9
25/04/00	08/05/00	03	Shamook		326	3Ps	8	0	8
24/05/00	02/05/20	36	CCG Ann	Harvey	336	3KL	0	15	15
13/04/00	21/04/00	39	Teleost		301	3L	24	0	24
22/04/00	07/05/00	39	Teleost		302	3KLMNO	93	64	157
31/03/00	10/04/00	39	Teleost		300	3Ps	34	2	36
23/05/00	23/05/00	27	CCG206		013	3L	1	0	1

15/05/00	23/05/00	42	Atlantic Claire	001	3LNO	0	27	27
04/04/00	07/04/00	10	Wilfred Templeman	312	3L	2	0	2
06/06/00	06/06/00	27	CCG206	014	3L	1	0	1
07/04/00	21/04/00	10	Wilfred Templeman	313	3P	84	6	90
22/04/00	02/05/00	10	Wilfred Templeman	314	3P	41	3	44
13/06/00	13/06/00	27	CCG206	015	3L	1	0	1
15/06/00	15/06/00	27	CCG206	016	3L	2	0	2
04/05/00	19/05/00	10	Wilfred Templeman	315	3PsO	94	6	100
20/05/00	02/06/00	10	Wilfred Templeman	316	3NO	88	3	91
19/05/00	03/06/00	03	Shamook	328	3L	21	0	21
05/06/00	19/06/00	03	Shamook	329	3L	7	0	7
03/06/00	16/06/00	10	Wilfred Templeman	317	3LN	86	6	92
29/06/00	29/06/00	27	CCG206	017	3L	1	0	1
09/05/00	28/05/00	39	Teleost	303	3KL	45	69	114
30/05/00	17/06/00	39	Teleost	304	2J3KPs	40	0	40
17/06/00	30/06/00	10	Wilfred Templeman	318	3L	111	4	115
14/07/00	30/07/00	39	Teleost	305	2G3KLO	110	96	206
11/08/00	28/08/00	39	Teleost	306	3P4V	139	18	157
01/09/00	01/09/00	27	CCG206	018	3L	1	0	1
12/09/00	12/09/00	27	CCG206	019	3L	1	0	1
15/09/00	15/09/00	27	CCG206	020	3L	1	0	1
14/07/00	29/07/00	03	Shamook	330	3KL	7	0	7
30/07/00	11/08/00	03	Shamook	331	3L	23	0	23
17/07/00	31/07/00	10	Wilfred Templeman	324	3L	114	0	114
22/08/00	31/08/00	10	Wilfred Templeman	309	4R	3	0	3
13/09/00	25/09/00	39	Teleost	308	4VWX5Zc	3	0	3
02/10/00	02/10/00	27	CCG206	021	3L	1	0	1
24/09/00	06/10/00	03	Shamook	333	3L	18	0	18
10/10/00	20/10/00	39	Teleost	338	3NO	33	2	35
10/10/00	19/10/00	10	Wifred Templeman	319	3O	40	4	44
04/11/00	19/11/00	03	Shamook	334	3Ps	8	20	28
30/11/00	30/11/00	27	CCG206	022	3L	1	0	1
21/10/00	01/11/00	10	Wilfred Templeman	320	3NO	51	3	54
01/11/00	11/11/00	20	CCGS Hudson	004	3KLMNO	88	27	115
15/11/00	20/11/00	10	Wilfred Templeman	321	3L	26	0	26
20/11/00	01/12/00	10	Wilfred Templeman	322	3LNO	56	1	57
01/12/00	15/12/00	10	Wilfred Templeman	323	3L	83	5	88
12/12/00	19/12/00	39	Teleost	343	3L	30	1	31
02/12/00	10/12/00	39	Teleost	342	3KL	25	2	27
03/11/00	17/11/00	39	Teleost	340	2J	100	17	117
21/10/00	03/11/00	39	Teleost	339	2J	81	2	83
17/11/00	01/12/00	39	Teleost	341	3K	113	4	117

Table 2: IGOSS Stations Archived at MEDS for 2000

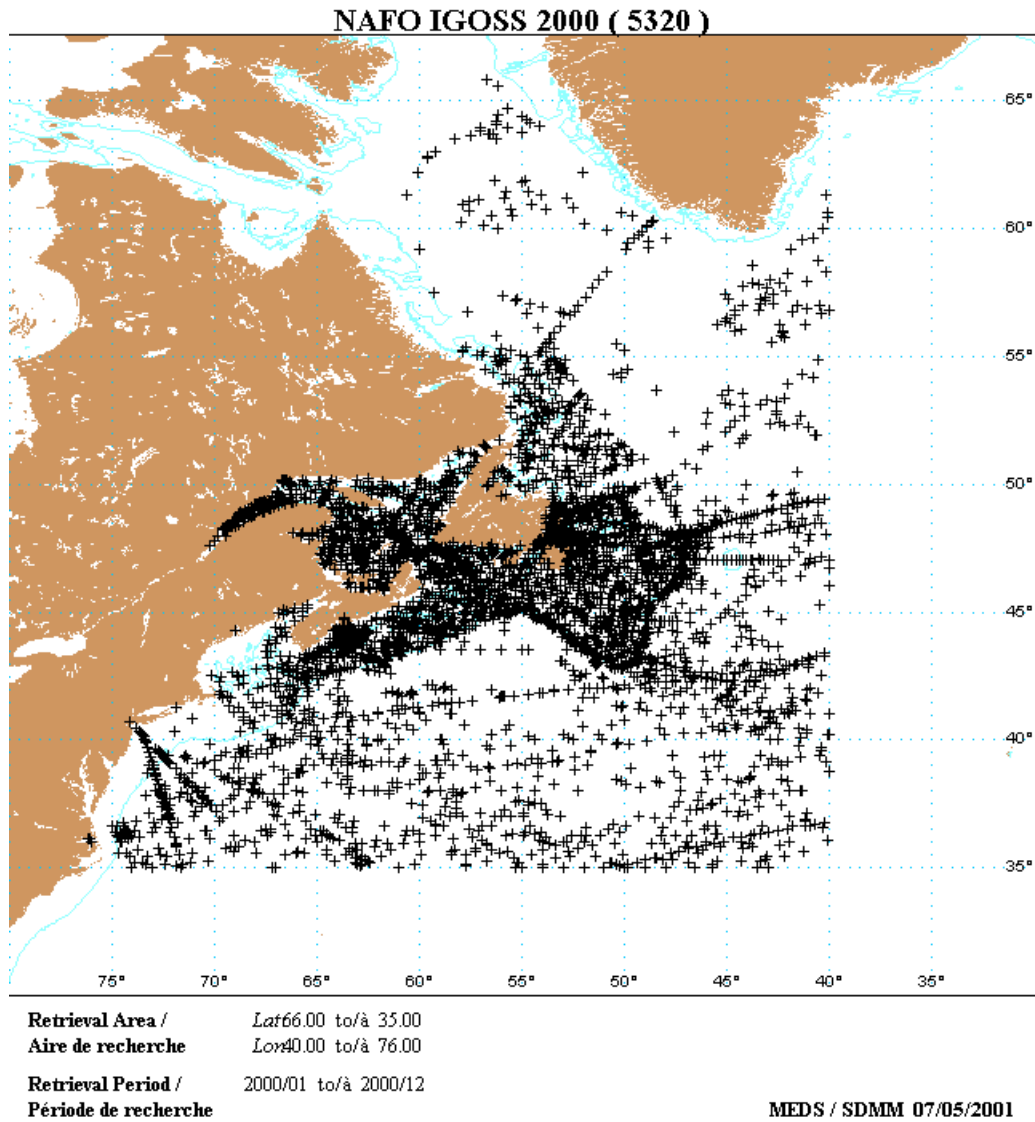


Table 2: IGOSS data received during 2000, and archived. Total = 5320 stations

Ship Name	Country	Call Sign	Cruise Period	BATHY	TESAC	NAFO Subarea
P-ALACE	USA	41531 00	Dec 09 - Dec 09	0	1	6C
			Dec 19 - Dec 19	0	1	6D
			Dec 30 - Dec 30	0	1	4VS
			Aug-08 - Aug-08	0	1	6B
			Aug-19 - Aug-19	0	1	4W
			Sep-09 - Sep-09	0	2	4VS
			Sep-20 - Sep-20	0	1	4W
			Sep-30 - Sep-30	0	1	4W
			Oct-11 - Oct-11	0	1	4W
			Oct-22 - Oct-22	0	1	3N
			Nov-01 - Nov-01	0	1	3N
			Nov-12 - Nov-12	0	1	3N
			Jan-09 - Jan-09	0	1	6F
			Jan-19 - Jan-19	0	1	6F
			Jan-30 - Jan-30	0	1	6F
			Feb-20 - Feb-20	0	1	6F
			Mar-02 - Mar-02	0	1	6F
			Mar-13 - Mar-13	0	1	6F

Mar-23 - Mar-23	0	1	6G
Apr-03 - Apr-03	0	1	6G
Apr-13 - Apr-13	0	1	6G
Apr-24 - Apr-24	0	1	6F
May-05 - May-05	0	1	6F
May-15 - May-15	0	1	6F
May-26 - May-26	0	1	6F
Jun-06 - Jun-06	0	1	6F
Jul-18 - Jul-18	0	1	6F
Jul-29 - Jul-29	0	1	6G
Aug-08 - Aug-08	0	1	4VS
Aug-19 - Aug-19	0	1	4VS
Aug-30 - Aug-30	0	1	4VS
Sep-09 - Sep-09	0	1	4VS
Sep-20 - Sep-20	0	1	4VS
Feb-07 - Feb-07	0	1	6C
Feb-18 - Feb-18	0	1	6D
Jul-26 - Jul-26	0	1	6C
Aug-06 - Aug-06	0	1	6C
Sep-17 - Sep-17	0	1	6C
Sep-28 - Sep-28	0	1	6B
Oct-30 - Oct-30	0	1	6D
Nov-20 - Nov-20	0	1	6C
Nov-30 - Nov-30	0	1	6D
Dec 11 - Dec 11	0	1	6D
Dec 22 - Dec 22	0	1	4W
Mar-19 - Mar-19	0	1	6E
Mar-29 - Mar-29	0	1	6E
Apr-09 - Apr-09	0	1	6E
Jan-05 - Jan-05	0	1	6G
Jan-15 - Jan-15	0	1	6G
Mar-30 - Mar-30	0	1	6G
Jul-14 - Jul-14	0	1	6F
Jul-25 - Jul-25	0	1	6F
May-14 - May-14	0	1	6E
May-24 - May-24	0	1	6F
Jun-04 - Jun-04	0	1	4W
Jun-14 - Jun-14	0	1	4W
Jun-25 - Jun-25	0	1	4W
Jul-16 - Jul-16	0	1	4X
Jul-27 - Jul-27	0	1	4X
Aug-06 - Aug-06	0	1	5ZE
Aug-17 - Aug-17	0	1	5ZE
Aug-28 - Aug-28	0	1	6D
Sep-07 - Sep-07	0	1	5ZE
Sep-18 - Sep-18	0	1	4X
Sep-28 - Sep-28	0	1	6E
Oct-09 - Oct-09	0	1	4W
Oct-20 - Oct-20	0	1	4X
Oct-30 - Oct-30	0	1	4X
Nov-10 - Nov-10	0	1	4X
Nov-21 - Nov-21	0	1	4X
Dec 01 - Dec 01	0	1	4X
Dec 12 - Dec 12	0	1	4X
Dec 22 - Dec 22	0	1	4X
Nov-06 - Nov-06	0	1	6D
Nov-16 - Nov-16	0	1	6E
Nov-27 - Nov-27	0	1	4VS
Dec 08 - Dec 08	0	1	6F
Dec 18 - Dec 18	0	1	6F
Dec 29 - Dec 29	0	1	6F
Jan-06 - Jan-06	0	1	6G
Jan-16 - Jan-16	0	1	6F
Jan-27 - Jan-27	0	1	6F
Apr-10 - Apr-10	0	1	6G
Apr-21 - Apr-21	0	1	6G
May-02 - May-02	0	1	6H
Jul-15 - Jul-15	0	1	6G
Jul-26 - Jul-26	0	1	6G
Aug-05 - Aug-05	0	1	6G
Aug-16 - Aug-16	0	1	6G
Aug-26 - Aug-26	0	1	6G
Sep-06 - Sep-06	0	1	6F
Sep-17 - Sep-17	0	1	6G
Sep-27 - Sep-27	0	1	6F
Oct-08 - Oct-08	0	1	6G
Oct-29 - Oct-29	0	1	6F
Nov-09 - Nov-09	0	1	6F
Nov-19 - Nov-19	0	1	6F
Nov-30 - Nov-30	0	1	6F
Dec 11 - Dec 11	0	1	6F
Dec 21 - Dec 21	0	1	6F
Jun-23 - Jun-23	0	1	6C
Jul-04 - Jul-04	0	1	6B
Jul-14 - Jul-14	0	1	6D
Jul-25 - Jul-25	0	1	6D
Aug-05 - Aug-05	0	1	6D

Aug-16 - Aug-16	0	1	4W
Aug-26 - Aug-26	0	1	4X
Sep-06 - Sep-06	0	1	4X
Sep-17 - Sep-17	0	1	4X
Sep-28 - Sep-28	0	1	4X
Oct-08 - Oct-08	0	1	6D
Oct-19 - Oct-19	0	1	6E
Oct-30 - Oct-30	0	1	6E
Nov-10 - Nov-10	0	1	6F
Nov-20 - Nov-20	0	1	6F
Dec 01 - Dec 01	0	1	6F
Dec 12 - Dec 12	0	1	6F
Dec 23 - Dec 23	0	1	6F
May-28 - May-28	0	1	6C
Jun-08 - Jun-08	0	1	6D
Jul-20 - Jul-20	0	1	6E
Jul-31 - Jul-31	0	1	6D
Aug-11 - Aug-11	0	1	6D
Aug-21 - Aug-21	0	1	6D
Sep-01 - Sep-01	0	1	6D
Sep-22 - Sep-22	0	1	6D
Oct-03 - Oct-03	0	1	6D
Oct-13 - Oct-13	0	1	6D
Oct-24 - Oct-24	0	1	6D
Nov-04 - Nov-04	0	1	6D
Nov-14 - Nov-14	0	1	6D
Nov-25 - Nov-25	0	1	6D
Dec 05 - Dec 05	0	1	6D
Dec 16 - Dec 16	0	1	6D
Dec 27 - Dec 27	0	1	6D
Apr-16 - Apr-16	0	1	6C
Apr-26 - Apr-26	0	1	6D
May-07 - May-07	0	1	6E
Sep-01 - Sep-01	0	1	6D
Jan-14 - Jan-14	0	1	6H
Jan-24 - Jan-24	0	1	6H
Oct-27 - Oct-27	0	1	6H
Nov-06 - Nov-06	0	1	6H
Nov-17 - Nov-17	0	1	6H
Nov-27 - Nov-27	0	1	6H
Dec 08 - Dec 08	0	1	6H
Dec 19 - Dec 19	0	1	6H
Dec 29 - Dec 29	0	1	6H
Mar-05 - Mar-05	0	1	6H
Mar-16 - Mar-16	0	1	6H
Apr-07 - Apr-07	0	1	3M
Apr-18 - Apr-18	0	1	3M
Jul-22 - Jul-22	0	1	3M
Aug-02 - Aug-02	0	1	3M
Aug-12 - Aug-12	0	1	3M
Aug-23 - Aug-23	0	1	3N
Sep-03 - Sep-03	0	1	3M
Sep-13 - Sep-13	0	1	3M
Sep-24 - Sep-24	0	1	3M
Oct-04 - Oct-04	0	1	3M
Oct-15 - Oct-15	0	1	3M
Oct-26 - Oct-26	0	1	3M
Nov-05 - Nov-05	0	1	3M
Nov-16 - Nov-16	0	1	3M
Nov-27 - Nov-27	0	1	3M
Dec 07 - Dec 07	0	1	3M
Dec 18 - Dec 18	0	1	3M
Dec 28 - Dec 28	0	1	3M
Sep-28 - Sep-28	0	1	6C
Oct-09 - Oct-09	0	1	6B
Oct-30 - Oct-30	0	1	6D
Nov-10 - Nov-10	0	1	6E
Nov-20 - Nov-20	0	1	4W
Dec 01 - Dec 01	0	1	4X
Dec 11 - Dec 11	0	1	4X
Dec 22 - Dec 22	0	1	4X
Jan-02 - Jan-02	0	1	3M
Jan-12 - Jan-12	0	1	3M
Jan-23 - Jan-23	0	1	3M
Feb-03 - Feb-03	0	1	3M
Feb-13 - Feb-13	0	1	3M
Feb-24 - Feb-24	0	1	3M
Mar-05 - Mar-05	0	1	3M
Mar-16 - Mar-16	0	1	3M
Mar-27 - Mar-27	0	1	3M
Apr-06 - Apr-06	0	1	3M
Apr-17 - Apr-17	0	1	3M
Aug-01 - Aug-01	0	1	3M
Aug-12 - Aug-12	0	1	3M
Aug-22 - Aug-22	0	1	3M
Sep-02 - Sep-02	0	1	3M
Sep-13 - Sep-13	0	1	3M

Sep-23 - Sep-23	0	1	3M
Oct-04 - Oct-04	0	1	3M
Oct-15 - Oct-15	0	1	3M
Oct-25 - Oct-25	0	1	3M
Nov-05 - Nov-05	0	1	3M
Nov-15 - Nov-15	0	1	3M
Nov-26 - Nov-26	0	1	3M
Dec 07 - Dec 07	0	1	3M
Dec 17 - Dec 17	0	1	3M
Dec 28 - Dec 28	0	1	3M
Jan-08 - Jan-08	0	1	3N
Jan-19 - Jan-19	0	1	3N
Jan-30 - Jan-30	0	1	3N
Feb-09 - Feb-09	0	1	3N
Feb-20 - Feb-20	0	1	3N
Mar-02 - Mar-02	0	1	3N
Mar-12 - Mar-12	0	1	3N
Mar-23 - Mar-23	0	1	3N
Apr-02 - Apr-02	0	1	3N
Apr-13 - Apr-13	0	1	3M
Apr-24 - Apr-24	0	1	3N
May-04 - May-04	0	1	3M
May-15 - May-15	0	1	3M
May-26 - May-26	0	1	3M
Aug-08 - Aug-08	0	1	3M
Aug-29 - Aug-29	0	1	3K
Sep-09 - Sep-09	0	2	3K
Sep-19 - Sep-19	0	1	3K
Sep-30 - Sep-30	0	1	2J
Oct-11 - Oct-11	0	1	2J
Oct-21 - Oct-21	0	1	2J
Nov-01 - Nov-01	0	1	2J
Nov-12 - Nov-12	0	1	2J
Nov-22 - Nov-22	0	1	2J
Dec 03 - Dec 03	0	1	2J
Dec 13 - Dec 13	0	1	1F
Dec 24 - Dec 24	0	1	2J
Jan-09 - Jan-09	0	1	6D
Jan-20 - Jan-20	0	1	6D
Jan-30 - Jan-30	0	1	6D
Feb-10 - Feb-10	0	1	6D
Feb-21 - Feb-21	0	1	6D
Mar-02 - Mar-02	0	1	4W
Mar-13 - Mar-13	0	1	6F
Mar-23 - Mar-23	0	1	6F
Apr-03 - Apr-03	0	1	6F
Apr-14 - Apr-14	0	1	6F
Apr-24 - Apr-24	0	1	6F
May-05 - May-05	0	1	6F
Jul-18 - Jul-18	0	1	6E
Jul-29 - Jul-29	0	1	6F
Aug-09 - Aug-09	0	1	6F
Aug-19 - Aug-19	0	1	6F
Aug-30 - Aug-30	0	1	6F
Sep-20 - Sep-20	0	1	4W
Oct-01 - Oct-01	0	1	4VS
Oct-11 - Oct-11	0	1	4VS
Oct-22 - Oct-22	0	1	4VS
Nov-02 - Nov-02	0	1	4VS
Nov-12 - Nov-12	0	1	4VS
Nov-23 - Nov-23	0	1	3O
Dec 04 - Dec 04	0	1	3O
Dec 14 - Dec 14	0	1	3N
Jan-07 - Jan-07	0	1	4W
Jan-17 - Jan-17	0	1	4VS
Jan-28 - Jan-28	0	1	4VS
Feb-08 - Feb-08	0	1	6G
Feb-18 - Feb-18	0	1	6G
Feb-29 - Feb-29	0	1	6H
Mar-11 - Mar-11	0	1	3N
Mar-21 - Mar-21	0	1	3N
Apr-01 - Apr-01	0	1	3N
Jan-07 - Jan-07	0	1	6D
Jan-18 - Jan-18	0	1	6D
Jan-29 - Jan-29	0	1	6D
Feb-08 - Feb-08	0	1	6D
Feb-19 - Feb-19	0	1	6E
Jan-07 - Jan-07	0	1	6H
Jan-18 - Jan-18	0	1	6H
Jan-28 - Jan-28	0	1	6H
Feb-08 - Feb-08	0	1	6H
Feb-19 - Feb-19	0	1	6H
Feb-29 - Feb-29	0	1	6H
Apr-01 - Apr-01	0	1	6H
May-24 - May-24	0	1	6G
Jun-03 - Jun-03	0	1	6G
Jun-14 - Jun-14	0	1	6G

				Jul-16 - Jul-16	0	1	6F	
				Jul-26 - Jul-26	0	1	6F	
				Jan-04 - Jan-04	0	1	3N	
				Jan-14 - Jan-14	0	1	3N	
				Jan-25 - Jan-25	0	1	3N	
				Feb-05 - Feb-05	0	1	3N	
				Jan-11 - Jan-11	0	1	6H	
				Jan-22 - Jan-22	0	1	3M	
				Feb-01 - Feb-01	0	1	3M	
				Feb-12 - Feb-12	0	1	3M	
				Feb-23 - Feb-23	0	1	3M	
				Mar-04 - Mar-04	0	1	3M	
				Mar-15 - Mar-15	0	1	3M	
				Apr-16 - Apr-16	0	1	3M	
				Apr-27 - Apr-27	0	1	3M	
				May-08 - May-08	0	1	3M	
				Oct-26 - Oct-26	0	1	6G	
				Jan-05 - Jan-05	0	1	6D	
				Jan-16 - Jan-16	0	1	6D	
				Jan-27 - Jan-27	0	1	6D	
				Jan-01 - Jan-01	0	1	5ZE	
				Jan-12 - Jan-12	0	1	5ZE	
				Jan-22 - Jan-22	0	1	5ZE	
				Feb-02 - Feb-02	0	1	5ZW	
				Feb-13 - Feb-13	0	1	5ZW	
				Feb-23 - Feb-23	0	1	6B	
				Mar-05 - Mar-05	0	1	6B	
				Mar-16 - Mar-16	0	1	6B	
				Mar-27 - Mar-27	0	1	6B	
				Apr-06 - Apr-06	0	1	6D	
				Apr-17 - Apr-17	0	1	6D	
				Apr-28 - Apr-28	0	1	6E	
				May-08 - May-08	0	1	4W	
				May-30 - May-30	0	1	4X	
				Jun-10 - Jun-10	0	1	4X	
				Jun-20 - Jun-20	0	1	4X	
				Jul-22 - Jul-22	0	1	5ZE	
				Aug-02 - Aug-02	0	1	5ZE	
				Aug-13 - Aug-13	0	1	5ZE	
				Aug-23 - Aug-23	0	1	5ZE	
				Sep-03 - Sep-03	0	1	5ZE	
				Sep-14 - Sep-14	0	1	5ZE	
				Sep-25 - Sep-25	0	1	5ZE	
				Oct-05 - Oct-05	0	1	5ZE	
				Jan-20 - Jan-20	0	1	4W	
				Jan-31 - Jan-31	0	1	4VS	
				Feb-11 - Feb-11	0	1	4W	
				Feb-22 - Feb-22	0	1	4W	
				Mar-03 - Mar-03	0	1	4W	
				Mar-14 - Mar-14	0	1	4W	
				Mar-25 - Mar-25	0	1	4W	
				Apr-05 - Apr-05	0	1	4W	
				Apr-15 - Apr-15	0	1	4W	
				Apr-26 - Apr-26	0	1	4W	
				May-07 - May-07	0	1	4W	
				May-18 - May-18	0	1	4W	
				May-28 - May-28	0	1	4W	
				Jun-08 - Jun-08	0	1	4W	
				Jun-19 - Jun-19	0	1	4W	
				Jul-21 - Jul-21	0	1	4X	
				Aug-01 - Aug-01	0	1	4X	
				Aug-12 - Aug-12	0	1	4X	
				Aug-22 - Aug-22	0	1	4W	
				Sep-02 - Sep-02	0	1	4VS	
				Sep-13 - Sep-13	0	1	4VS	
				Sep-24 - Sep-24	0	1	3O	
				Oct-04 - Oct-04	0	1	3N	
				Oct-26 - Oct-26	0	1	3N	
				Nov-06 - Nov-06	0	1	3N	
				Nov-16 - Nov-16	0	1	3N	
				Nov-27 - Nov-27	0	1	3N	
				Dec 08 - Dec 08	0	1	3N	
				Dec 19 - Dec 19	0	1	3M	
				Dec 29 - Dec 29	0	1	3M	
BUOY		UNKNOWN/ IN	41951	00	Nov-22 - Nov-22	0	1	6E
					Dec 03 - Dec 03	0	1	6E
					Dec 14 - Dec 14	0	1	6E
					Dec 25 - Dec 25	0	1	6E
P-ALACE		USA	44870	00	Jan-01 - Jan-01	0	1	6H
					Jan-12 - Jan-12	0	1	6H
					Jan-23 - Jan-23	0	1	3M
					Feb-24 - Feb-24	0	1	3M
					Mar-05 - Mar-05	0	1	3M
					Mar-16 - Mar-16	0	1	3M
					Mar-26 - Mar-26	0	1	3M
					Apr-06 - Apr-06	0	1	3M
					Apr-17 - Apr-17	0	1	3M

Apr-27 - Apr-27	0	1	3M
May-08 - May-08	0	1	3M
May-19 - May-19	0	1	3N
May-29 - May-29	0	1	3N
Jun-09 - Jun-09	0	1	3N
Jun-19 - Jun-19	0	1	3N
Jul-21 - Jul-21	0	1	3N
Aug-01 - Aug-01	0	1	3N
Aug-12 - Aug-12	0	1	3N
Aug-22 - Aug-22	0	1	3N
Sep-02 - Sep-02	0	1	3N
Sep-23 - Sep-23	0	1	3N
Oct-04 - Oct-04	0	1	3M
Oct-14 - Oct-14	0	1	3M
Jan-05 - Jan-05	0	1	6H
Jan-14 - Jan-14	0	1	6H
Jan-23 - Jan-23	0	1	6H
Feb-02 - Feb-02	0	1	6H
Feb-11 - Feb-11	0	1	6H
Feb-20 - Feb-20	0	1	6H
Feb-29 - Feb-29	0	1	6H
Mar-09 - Mar-09	0	1	6H
Mar-18 - Mar-18	0	1	6H
Mar-27 - Mar-27	0	1	6H
Apr-06 - Apr-06	0	1	6H
Apr-15 - Apr-15	0	1	6H
Apr-24 - Apr-24	0	1	6H
May-03 - May-03	0	1	6H
May-12 - May-12	0	1	6H
Jul-15 - Jul-15	0	1	6H
Jul-25 - Jul-25	0	1	6H
Aug-03 - Aug-03	0	1	6H
Aug-12 - Aug-12	0	1	6H
Aug-21 - Aug-21	0	1	6H
Aug-30 - Aug-30	0	1	3N
Sep-08 - Sep-08	0	1	3N
Sep-17 - Sep-17	0	1	3N
Sep-27 - Sep-27	0	1	30
Oct-06 - Oct-06	0	1	30
Oct-15 - Oct-15	0	1	30
Oct-24 - Oct-24	0	1	30
Nov-03 - Nov-03	0	1	30
Nov-12 - Nov-12	0	1	30
Nov-21 - Nov-21	0	1	30
Nov-30 - Nov-30	0	1	30
Dec 19 - Dec 19	0	1	30
Dec 28 - Dec 28	0	1	30
Jan-02 - Jan-02	0	1	3M
Jan-13 - Jan-13	0	1	3M
Jan-23 - Jan-23	0	1	6H
Feb-03 - Feb-03	0	1	6H
Feb-13 - Feb-13	0	1	6H
Feb-24 - Feb-24	0	1	6H
Mar-06 - Mar-06	0	1	6H
Mar-16 - Mar-16	0	1	6H
Mar-27 - Mar-27	0	1	6H
Apr-06 - Apr-06	0	1	6H
Apr-17 - Apr-17	0	1	6H
Apr-28 - Apr-28	0	1	6H
Aug-01 - Aug-01	0	1	6H
Jan-01 - Jan-01	0	1	4W
Jan-12 - Jan-12	0	1	4W
Jan-22 - Jan-22	0	1	4W
Feb-02 - Feb-02	0	1	4W
Feb-13 - Feb-13	0	1	4W
Feb-23 - Feb-23	0	1	4X
Mar-05 - Mar-05	0	1	4X
Mar-16 - Mar-16	0	1	4X
Mar-26 - Mar-26	0	1	4X
Apr-06 - Apr-06	0	1	4X
Apr-16 - Apr-16	0	1	4X
Apr-27 - Apr-27	0	1	4X
May-08 - May-08	0	1	4X
May-29 - May-29	0	1	4X
Jun-09 - Jun-09	0	1	4X
Jun-19 - Jun-19	0	1	4X
Jul-21 - Jul-21	0	1	4X
Sep-23 - Sep-23	0	1	4VS
Oct-04 - Oct-04	0	1	4VS
Oct-14 - Oct-14	0	1	4VS
Sep-13 - Sep-13	0	1	6C
Sep-24 - Sep-24	0	1	6B
Oct-04 - Oct-04	0	1	6C
Oct-15 - Oct-15	0	1	6C
Nov-16 - Nov-16	0	1	6C
Nov-27 - Nov-27	0	1	6B
Dec 07 - Dec 07	0	1	6B

Dec 18 - Dec 18	0	1	6B
Dec 28 - Dec 28	0	1	6B
Jan-09 - Jan-09	0	1	1E
Jan-19 - Jan-19	0	1	1F
Jan-29 - Jan-29	0	1	1E
Feb-08 - Feb-08	0	1	1E
Feb-18 - Feb-18	0	1	1E
Feb-28 - Feb-28	0	1	1E
Mar-09 - Mar-09	0	1	1E
Mar-19 - Mar-19	0	1	1E
Mar-29 - Mar-29	0	1	1F
Apr-08 - Apr-08	0	1	1F
Apr-18 - Apr-18	0	1	1F
Apr-28 - Apr-28	0	1	1F
May-18 - May-18	0	1	1F
Jun-07 - Jun-07	0	1	1F
Jun-27 - Jun-27	0	1	1F
Jul-17 - Jul-17	0	1	1F
Aug-06 - Aug-06	0	1	1F
Aug-26 - Aug-26	0	1	1E
Sep-15 - Sep-15	0	1	1E
Oct-05 - Oct-05	0	1	1E
Nov-04 - Nov-04	0	1	1E
Nov-14 - Nov-14	0	1	1E
Nov-24 - Nov-24	0	1	1F
Dec 04 - Dec 04	0	1	1E
Dec 14 - Dec 14	0	1	2G
Dec 24 - Dec 24	0	1	1F
Jan-01 - Jan-01	0	1	1F
Jan-11 - Jan-11	0	1	1F
Jan-31 - Jan-31	0	1	1F
Feb-10 - Feb-10	0	1	1F
Feb-20 - Feb-20	0	1	1F
Mar-01 - Mar-01	0	1	1F
Mar-31 - Mar-31	0	1	1F
Apr-10 - Apr-10	0	1	1F
Apr-20 - Apr-20	0	1	1F
Apr-30 - Apr-30	0	1	1F
May-20 - May-20	0	1	1F
Jun-09 - Jun-09	0	1	1F
Jul-19 - Jul-19	0	1	1F
Aug-08 - Aug-08	0	1	1F
Aug-28 - Aug-28	0	1	1F
Sep-17 - Sep-17	0	1	1F
Oct-07 - Oct-07	0	1	1F
Jan-06 - Jan-06	0	1	3M
Jan-16 - Jan-16	0	1	3M
Jan-26 - Jan-26	0	1	3M
Feb-05 - Feb-05	0	1	3M
Feb-15 - Feb-15	0	1	3M
Feb-25 - Feb-25	0	1	3M
Mar-06 - Mar-06	0	1	3M
Mar-16 - Mar-16	0	1	3M
Mar-26 - Mar-26	0	1	3M
Apr-05 - Apr-05	0	1	3M
Apr-15 - Apr-15	0	1	3M
Apr-25 - Apr-25	0	1	3M
May-05 - May-05	0	1	3M
May-15 - May-15	0	1	3M
Jan-09 - Jan-09	0	1	1C
Jan-19 - Jan-19	0	1	1C
Jan-07 - Jan-07	0	1	3K
Jan-17 - Jan-17	0	1	3K
Jan-27 - Jan-27	0	1	3K
Feb-06 - Feb-06	0	1	3K
Feb-16 - Feb-16	0	1	3L
Feb-26 - Feb-26	0	1	3M
Mar-07 - Mar-07	0	1	3M
Mar-17 - Mar-17	0	1	3M
Mar-28 - Mar-28	0	1	3M
Apr-07 - Apr-07	0	1	3M
Jan-07 - Jan-07	0	1	1D
Jan-17 - Jan-17	0	1	1D
Jan-27 - Jan-27	0	1	1D
Feb-06 - Feb-06	0	1	1D
Dec 24 - Dec 24	0	1	1F
Jan-09 - Jan-09	0	1	1D
Jan-20 - Jan-20	0	1	1D
Jan-30 - Jan-30	0	1	1D
Feb-09 - Feb-09	0	1	1C
Feb-19 - Feb-19	0	1	1C
Feb-29 - Feb-29	0	1	1C
Mar-10 - Mar-10	0	1	1D
Mar-20 - Mar-20	0	1	1D
Mar-30 - Mar-30	0	1	1D
Apr-09 - Apr-09	0	1	1D
Apr-19 - Apr-19	0	1	1D

				Apr-29 - Apr-29	0	1	1D
				May-09 - May-09	0	1	1D
				May-29 - May-29	0	1	1D
				Jun-18 - Jun-18	0	1	0B
				Jul-08 - Jul-08	0	1	0B
				Jul-28 - Jul-28	0	1	0B
				Aug-17 - Aug-17	0	1	0B
				Sep-06 - Sep-06	0	1	0B
				Sep-26 - Sep-26	0	1	2G
				Oct-16 - Oct-16	0	1	2H
				Nov-05 - Nov-05	0	1	2H
				Nov-15 - Nov-15	0	1	2H
				Nov-25 - Nov-25	0	1	2J
				Dec 05 - Dec 05	0	1	2J
				Dec 15 - Dec 15	0	1	2J
				Dec 25 - Dec 25	0	1	3K
				Feb-01 - Feb-01	0	1	6G
				Feb-11 - Feb-11	0	1	6G
				Feb-22 - Feb-22	0	1	6G
				Mar-04 - Mar-04	0	1	6F
				Jul-20 - Jul-20	0	1	6F
				Jul-30 - Jul-30	0	1	6F
				Aug-10 - Aug-10	0	1	6F
				Aug-21 - Aug-21	0	1	6F
				Aug-31 - Aug-31	0	1	6F
				Sep-21 - Sep-21	0	1	6E
				Oct-02 - Oct-02	0	1	6E
				Oct-13 - Oct-13	0	1	6E
				Oct-23 - Oct-23	0	1	6F
				Nov-14 - Nov-14	0	1	6E
				Nov-24 - Nov-24	0	1	6E
				Dec 05 - Dec 05	0	1	6E
				Dec 15 - Dec 15	0	1	6E
				Dec 26 - Dec 26	0	1	6E
				Jan-06 - Jan-06	0	1	3K
				Jan-16 - Jan-16	0	1	3L
				Jan-26 - Jan-26	0	1	3L
				Feb-05 - Feb-05	0	1	3M
				Feb-15 - Feb-15	0	1	3K
				Feb-25 - Feb-25	0	1	3K
				Mar-06 - Mar-06	0	1	3M
				Mar-16 - Mar-16	0	1	3M
				Mar-26 - Mar-26	0	1	3M
				Apr-05 - Apr-05	0	1	3M
				May-25 - May-25	0	1	3K
				Jun-14 - Jun-14	0	1	3K
				Jul-04 - Jul-04	0	1	3K
				Jul-24 - Jul-24	0	1	3K
				Aug-13 - Aug-13	0	1	2J
				Sep-02 - Sep-02	0	1	2J
				Sep-22 - Sep-22	0	1	3K
				Oct-12 - Oct-12	0	1	2J
				Nov-11 - Nov-11	0	1	2J
				Nov-21 - Nov-21	0	1	2J
				Dec 01 - Dec 01	0	1	2J
				Dec 11 - Dec 11	0	1	2J
				Dec 21 - Dec 21	0	1	2J
				Dec 31 - Dec 31	0	1	2H
				Jan-07 - Jan-07	0	1	1F
				Jan-17 - Jan-17	0	1	1F
				Jan-27 - Jan-27	0	1	1F
				Feb-06 - Feb-06	0	1	2J
				Jan-10 - Jan-10	0	1	1F
				Jan-20 - Jan-20	0	1	1F
				Feb-09 - Feb-09	0	1	1F
				Feb-19 - Feb-19	0	1	1F
				Feb-29 - Feb-29	0	1	1F
				Jan-05 - Jan-05	0	1	1F
				Jan-15 - Jan-15	0	1	1F
				Jan-25 - Jan-25	0	1	1F
				Feb-04 - Feb-04	0	1	1F
				Feb-14 - Feb-14	0	1	1F
				Feb-24 - Feb-24	0	1	1F
				Mar-05 - Mar-05	0	1	1F
				Mar-15 - Mar-15	0	1	1F
				Mar-25 - Mar-25	0	1	1F
				Apr-04 - Apr-04	0	1	1F
				Apr-14 - Apr-14	0	1	1F
				Apr-24 - Apr-24	0	1	1F
				May-04 - May-04	0	1	1F
				May-24 - May-24	0	1	1F
				Jan-07 - Jan-07	0	1	1F
NEPTUNE OLIVINE	SINGAPORE	9VBL	00	Jan-11 - Jan-11	2	0	3L
				Jan-24 - Jan-24	8	0	3L, 3M
				Apr-10 - Apr-11	6	0	3N, 3O
HELICOPTER	CANADA	BO365	00	Jul-09 - Jul-09	0	20	4T
UNKNOWN / INCONNU	CANADA	CCG206	00	Jan-24 - Jan-24	0	1	3L

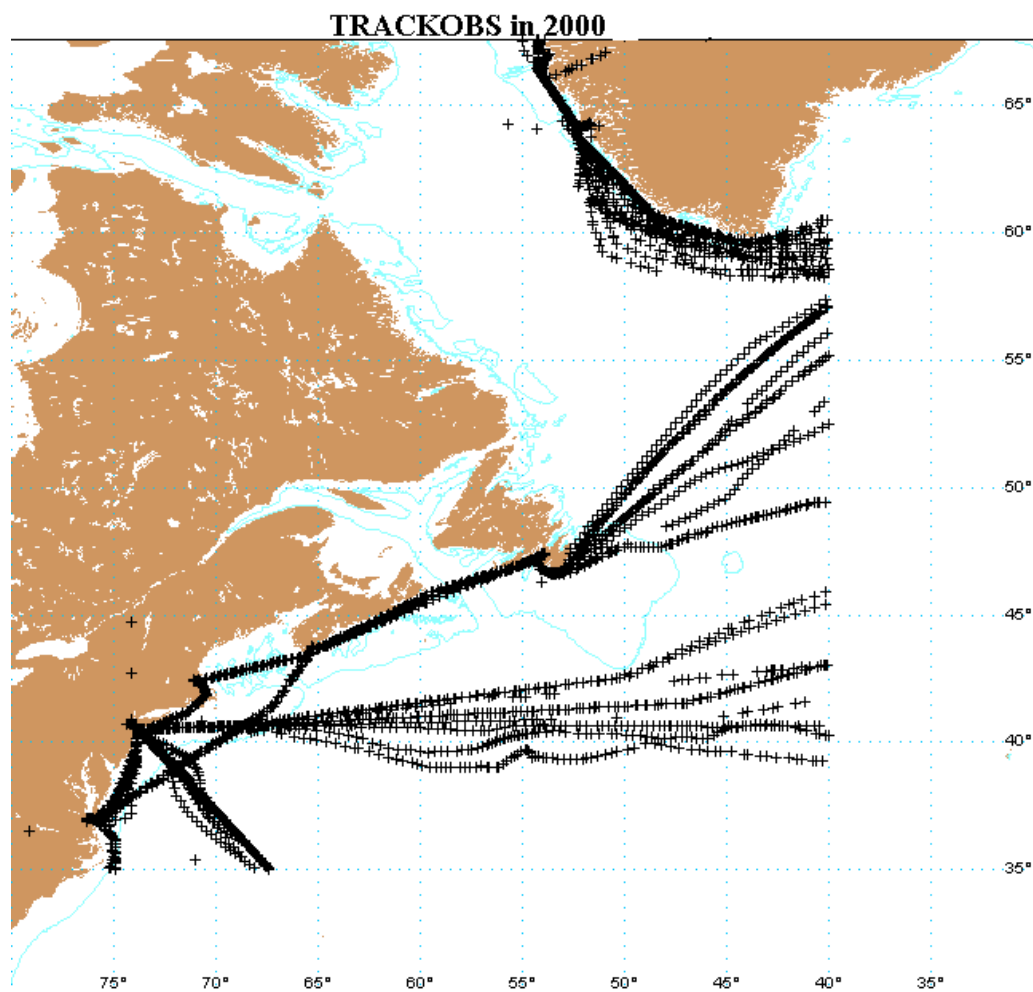
				Feb-03 - Feb-03	0	1	3L
				Feb-21 - Feb-21	0	1	3L
				Feb-29 - Feb-29	0	1	3L
				Mar-15 - Mar-15	0	1	3L
				Apr-04 - Apr-04	0	1	3L
				May-23 - May-23	0	1	3L
				Jun-06 - Jun-06	0	1	3L
				Jun-13 - Jun-15	0	3	3L
				Jun-29 - Jun-29	0	1	3L
				Sep-01 - Sep-01	0	1	3L
				Sep-12 - Sep-15	0	2	3L
				Oct-02 - Oct-02	0	1	3L
				Nov-30 - Nov-30	0	1	3L
OPIILIO	CANADA	CFD2576	00	May-15 - May-15	0	1	4T
				Jun-02 - Jun-02	0	1	4T
				Jun-26 - Jun-26	0	1	4T
				Jul-23 - Jul-23	0	1	4T
				Aug-14 - Aug-14	0	1	4T
				Aug-29 - Aug-29	0	1	4T
				Oct-02 - Oct-02	0	1	4T
PANDALUS	CANADA	CFD4703	00	Jan-28 - Jan-28	0	1	4X
				Mar-03 - Mar-03	0	1	4X
				Mar-29 - Mar-29	0	1	4X
				Apr-25 - Apr-25	0	1	4X
				May-17 - May-17	0	1	4X
				May-31 - May-31	0	1	4X
				Jun-15 - Jun-15	0	1	4X
				Jun-28 - Jun-28	0	1	4X
				Jul-31 - Jul-31	0	1	4X
				Aug-15 - Aug-15	0	1	4X
				Aug-28 - Aug-28	0	1	4X
				Sep-14 - Sep-14	0	1	4X
				Sep-25 - Sep-25	0	1	4X
				Oct-16 - Oct-16	0	1	4X
				Nov-06 - Nov-06	0	1	4X
				Nov-14 - Nov-14	0	1	4X
				Nov-29 - Nov-29	0	1	4X
				Dec 19 - Dec 19	0	1	4X
				Dec 27 - Dec 27	0	1	4X
SHIPPAGAN	CANADA	CG2611	00	Apr-18 - Apr-18	0	1	4T
SAMBRO	CANADA	CG2613	00	Aug-22 - Aug-22	0	1	4W
J.L. HART	CANADA	CG2661	00	Jul-11 - Jul-11	0	1	4X
SHAMOOK	CANADA	CG2676	00	Apr-04 - Apr-07	0	8	3PS
				Apr-19 - Apr-19	0	1	3L
				Apr-26 - May-04	0	8	3PS
				May-21 - Jun-15	0	28	3L
				Jul-18 - Jul-26	0	7	3K, 3L
				Jul-31 - Aug-10	0	23	3L
				Sep-25 - Oct-05	0	18	3L
				Nov-05 - Nov-16	20	8	3PS
ALFRED NEEDLER	CANADA	CG2683	00	Feb-15 - Mar-17	0	171	4VS, 4W, 4X, 5ZE
				Jun-12 - Jun-12	0	2	4T
				Jun-29 - Jun-29	0	1	4W
				Jul-05 - Jul-29	0	217	4VN, 4VS, 4W, 4X, 5Y
				Aug-05 - Aug-31	0	242	3PN, 4R, 4S, 4T, 4VN
				Sep-05 - Sep-28	0	196	4T, 4VN
WESTON	CANADA	CG3005	00	Jan-10 - Jan-10	0	1	4W
GIBOR	CANADA	CG3129	00	Jun-12 - Jun-12	0	2	4T
BELUGA	CANADA	CG3161	00	May-12 - May-16	0	2	4T
				May-26 - May-26	0	1	4T
				Jun-02 - Jun-06	0	2	4T
				Jun-13 - Jun-13	0	1	4T
				Jun-19 - Jun-19	0	1	4T
				Jun-29 - Jun-29	0	1	4T
				Jul-07 - Jul-07	0	1	4T
				Jul-18 - Jul-18	0	1	4T
				Jul-24 - Jul-24	0	1	4T
				Aug-08 - Aug-08	0	1	4T
				Aug-15 - Aug-15	0	1	4T
				Aug-22 - Aug-22	0	1	4T
				Aug-29 - Aug-29	0	1	4T
				Sep-20 - Sep-20	0	1	4T
				Sep-29 - Oct-04	0	2	4T
				Oct-17 - Oct-17	0	1	4T
NSC CALANUS II	CANADA	CG3187	00	May-11 - May-12	0	7	4S
J. WILLIE DERASPE	CANADA	CG3197	00	Jul-31 - Aug-07	0	5	4T
MONTREAL	CANADA	CGAG	00	Jun-15 - Jun-15	1	0	4W
ANN HARVEY	CANADA	CGAH	00	Apr-24 - May-02	15	0	2J, 3K, 3L
FREDERICTON	CANADA	CGAN	00	Apr-05 - Apr-05	1	0	5ZE
PARIZEAU	CANADA	CGBS	00	Jan-31 - Jan-31	0	1	4W
				Apr-07 - Apr-07	0	1	4W
				Apr-12 - Apr-12	0	1	4W
				Apr-23 - May-02	0	19	3PS, 4VS, 4W, 4X
				May-09 - May-09	0	1	4W
				Jun-13 - Jun-14	0	8	4W, 4X
TRACY	CANADA	CGBX	00	Aug-09 - Aug-09	0	2	4S, 4T
				Aug-24 - Aug-24	0	2	4S, 4T

TELEOST	CANADA	CGCB	00	Oct-13 - Oct-13	0	2	4S, 4T		
				Jan-04 - Jan-15	0	22	2J, 3K, 3L		
				Mar-31 - Jun-17	135	235	2J, 3K, 3L, 3M, 3N, 3O, 3PS, 3PN		
				Aug-11 - Aug-28	17	139	3L, 3PS, 3PN, 4VN, 4VS, 4W		
MARTHA L. BLACK	CANADA	CGCC	00	Sep-15 - Sep-22	0	3	4W, 4X		
				Oct-10 - Dec 18	28	382	2J, 3K, 3L, 3M, 3N, 3O		
				May-18 - Jun-03	0	67	4R, 4S, 4T		
				Jun-11 - Jun-26	0	107	4R, 4S, 4T, 4VN		
GEORGE R. PEARKES	CANADA	CGCX	00	Sep-03 - Sep-12	0	59	4S, 4T		
				Oct-25 - Oct-25	0	2	4S, 4T		
				Nov-19 - Nov-20	0	2	4S, 4T		
				Sep-26 - Sep-26	0	2	4S, 4T		
HUDSON	CANADA	CGDG	00	Nov-08 - Nov-08	0	2	4S, 4T		
				May-20 - Jun-22	0	132	1F, 2H, 2J, 3L, 4R, 4VS, 4W, 4X		
				Sep-30 - Oct-16	0	54	3PS, 4R, 4VN, 4VS, 4W, 4X		
				Oct-25 - Oct-25	0	1	4W		
W. TEMPLEMAN	CANADA	CGDV	00	Nov-17 - Nov-22	0	19	3PS, 4W		
				Nov-28 - Dec 08	0	78	4R, 4S, 4T, 4VN, 4W		
				Apr-06 - Jul-10	28	518	3L, 3N, 3O, 3PS, 3PN, 4R		
				Jul-17 - Jul-31	0	113	3L		
CCGS DES GROSEILLIERS	CANADA	CGDX	00	Aug-22 - Aug-22	0	1	3L		
				Aug-29 - Aug-31	0	2	3L, 4R		
				Oct-10 - Oct-30	6	91	3L, 3N, 3O		
				Nov-15 - Dec 15	6	165	3L, 3N, 3O		
HMCS SUMMERSIDE GAUSS	CANADA	CGJJ	00	Feb-09 - Feb-09	0	2	4S, 4T		
				Feb-25 - Feb-26	0	2	4S, 4T		
				Mar-09 - Mar-09	0	2	4S, 4T		
				Feb-27 - Feb-27	1	0	5Y		
BONN EXPRESS	GERMANY	DGNB	00	Jun-01 - Jun-04	17	13	3M, 3N		
				Jun-10 - Jun-12	21	15	3L, 3M		
				Nov-09 - Nov-10	14	0	3L, 3M		
				Nov-21 - Nov-23	35	0	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE		
CONTSHIP LONDON	LIBERIA	ELVX4	00	Dec 21 - Dec 25	38	0	3M, 3N, 4VS, 4W, 6C, 6D, 6E, 6F, 6G		
				Jan-29 - Jan-31	6	0	3N, 4VS, 4W, 4X, 5ZE		
				Apr-24 - Apr-26	7	0	3M, 4VS, 4W		
				Jul-27 - Jul-30	7	0	3M, 3N, 4W, 4X, 5ZE		
CONTSHIP ROME ACT IV	LIBERIA	ELVZ6	00	Oct-20 - Oct-22	8	0	3N, 4VS, 4W, 4X, 5ZE, 6A		
				Jan-07 - Jan-10	8	0	3M, 3N, 4VS, 4W, 4X		
				UK GOVL	00	Apr-03 - Apr-03	1	0	6C
				USA KIRF	00	May-27 - May-27	1	0	6C
SEALAND HAWAII	USA	KIRF	00	Jun-17 - Jun-17	1	0	6B		
				Jun-29 - Jun-29	1	0	6C		
				Aug-05 - Aug-05	2	0	6B, 6C		
				Aug-13 - Aug-13	1	0	6C		
				Sep-02 - Sep-02	2	0	6B		
				Sep-30 - Sep-30	2	0	6B, 6C		
				Oct-14 - Oct-14	1	0	6C		
				Oct-28 - Oct-29	5	0	6A, 6B, 6C		
				Nov-25 - Nov-26	2	0	6B		
				Dec 09 - Dec 10	32	0	6A, 6B, 6C		
				Dec 15 - Dec 15	1	0	6B		
				Oct-04 - Oct-04	1	0	6C		
				UK LATI4	00	May-15 - May-15	1	0	3N
				UK MQLN7	00	Mar-27 - Mar-28	3	0	6D, 6E
NOMZI	UK	MTQU3	00	May-14 - May-16	5	0	6D, 6E		
				Aug-22 - Aug-23	3	0	6D, 6E		
				Oct-12 - Oct-12	4	0	5ZW, 6D, 6E		
				Nov-27 - Nov-28	6	0	5ZW, 6D, 6E		
ICEPAT GROTON CT	USA	NIDK	00	Jan-11 - Jan-11	2	0	6D, 6E		
				Jun-01 - Jun-02	3	0	6D, 6E		
				Jul-19 - Jul-19	2	0	6D, 6E		
				Sep-04 - Sep-05	3	0	6D, 6E		
MORELOS OLEANDER	NETHERLAND	PGBB	00	Feb-01 - Feb-01	1	0	3L		
				Mar-26 - Mar-28	14	0	3N		
				Apr-08 - Apr-09	3	0	3N		
				Apr-27 - May-10	14	0	3L, 3N		
HANNE SIF UNKNOWN/INCONNU	NETHERLAND	PJJU	00	Jul-03 - Jul-03	6	0	3L, 3M		
				Jul-11 - Jul-16	13	0	3N, 4W, 4X		
				May-22 - May-23	18	0	6G, 6H		
				Aug-04 - Aug-09	8	0	6A, 6B, 6D		
UNKNOWN/INCONNU	SINGAPORE UNKNOWN/IN	S6LA SHIP	00	Oct-21 - Oct-25	23	0	6A, 6B, 6D		
				Nov-11 - Nov-11	2	0	6B		
				Apr-15 - Apr-15	1	0	4X		
				Jan-10 - Feb-07	52	0	3L, 3N, 3O, 3PS, 4VS, 4W, 4X, 6E		
				Feb-15 - Mar-08	93	0	3M, 4T, 4W, 4X, 5Y, 5ZE		
				Mar-22 - Mar-24	27	0	4X, 5ZE, 6B, 6C, 6D, 6E, 6F		
				Apr-04 - Apr-25	66	0	4X, 5ZE, 5ZW, 6B, 6C, 6D, 6E, 6F, 6G, 6H		
				Apr-30 - Apr-30	1	0	6G		
				May-08 - May-18	61	0	4T, 4VS, 4W, 4X		
				Jun-07 - Jul-10	47	25	3L, 3M, 3N, 3O, 4T, 4W, 4X, 5Y, 5ZE, 5ZW, 6A		
				Jul-16 - Jul-27	27	0	3L, 3PS, 4VS, 4W, 4X, 5Y, 5ZW		
				Aug-20 - Aug-23	4	0	3L, 4W		
				Sep-12 - Sep-13	0	4	4T		
				Sep-20 - Sep-20	0	2	4T		
Oct-03 - Oct-05	2	0	4X, 5ZW						

				Oct-12 - Oct-18	6	2	3PN, 6C
				Nov-01 - Nov-01	1	0	6C
HANSEWALL	ANTIGUA AN	V2A03	00	Jan-21 - Jan-21	1	0	6C
				Jan-28 - Jan-29	5	0	1F, 3K, 3L
				Feb-07 - Feb-08	4	0	1F, 3K
				Feb-22 - Feb-23	3	0	1F, 3K
				Mar-01 - Mar-03	5	0	1F, 2J, 3K, 3L
W.B. SCOTT	CANADA	VC8151	00	Feb-21 - Feb-21	0	1	4X
ATLANTIC CLAIRE	CANADA	VC8218	00	May-16 - May-23	28	0	3N, 3O
ENDURANCE	USA	WAUU	00	Jan-27 - Jan-29	2	0	6E, 6H
ENDEAVOR	USA	WAUW	00	Mar-24 - Mar-26	6	0	6E, 6F, 6H
				May-05 - May-06	4	0	6B, 6C, 6E
				Jun-09 - Jun-12	12	0	4W, 4X, 5ZE, 6F, 6G, 6H
				Jun-20 - Jun-21	6	0	3M, 3N, 4VS, 6F
				Jul-23 - Jul-24	3	0	3N, 4W
				Aug-03 - Aug-05	4	0	3M, 3N, 6E, 6F
				Sep-02 - Sep-03	3	0	3O, 4W
				Sep-12 - Sep-15	5	0	3M, 6D, 6E, 6F
				Oct-19 - Oct-22	10	0	5ZE, 6E, 6F, 6G, 6H
				Dec 16 - Dec 16	2	0	6H
ENTERPRISE	USA	WAUY	00	Feb-10 - Feb-11	2	0	6G, 6H
				Feb-21 - Feb-24	10	0	5ZW, 6D, 6E, 6F, 6G, 6H
				Mar-29 - Apr-01	12	0	5ZE, 6D, 6E, 6F, 6G, 6H
				Apr-08 - Apr-11	12	0	6E, 6F, 6G, 6H
				May-16 - May-28	14	0	4VS, 4W, 4X, 6C, 6G, 6H
				Aug-02 - Aug-02	2	0	3M
				Aug-14 - Aug-18	14	0	3M, 3N, 3O, 4VS, 6C, 6D, 6E
				Sep-15 - Sep-16	3	0	3M, 3N
				Sep-27 - Sep-29	8	0	3M, 6F, 6G, 6H
				Oct-31 - Nov-03	10	0	3M, 3N, 3O, 4VS, 4X
DELAWARE BAY	USA	WMLG	00	Nov-09 - Nov-10	5	0	6G, 6H
SEALAND CRUSADER	USA	WZJF	00	Jan-07 - Jan-07	2	0	6B, 6C
				Mar-18 - Mar-19	4	0	6A, 6B, 6C

Thermosalinograph data:

A number of vessels have been equipped with thermosalinographs to collect surface temperatures and salinities. These data are transmitted via satellite and GTS and captured and archived at MEDS. The sampling locations in 2000 and number of observation locations in NAFO area for each month are given in the following plot and table.



Retrieval Area / Lat69.00 to/à 35.00
Aire de recherche Lon40.00 to/à 79.00
Retrieval Period / 2000/01 to/à 2000/12
Période de recherche

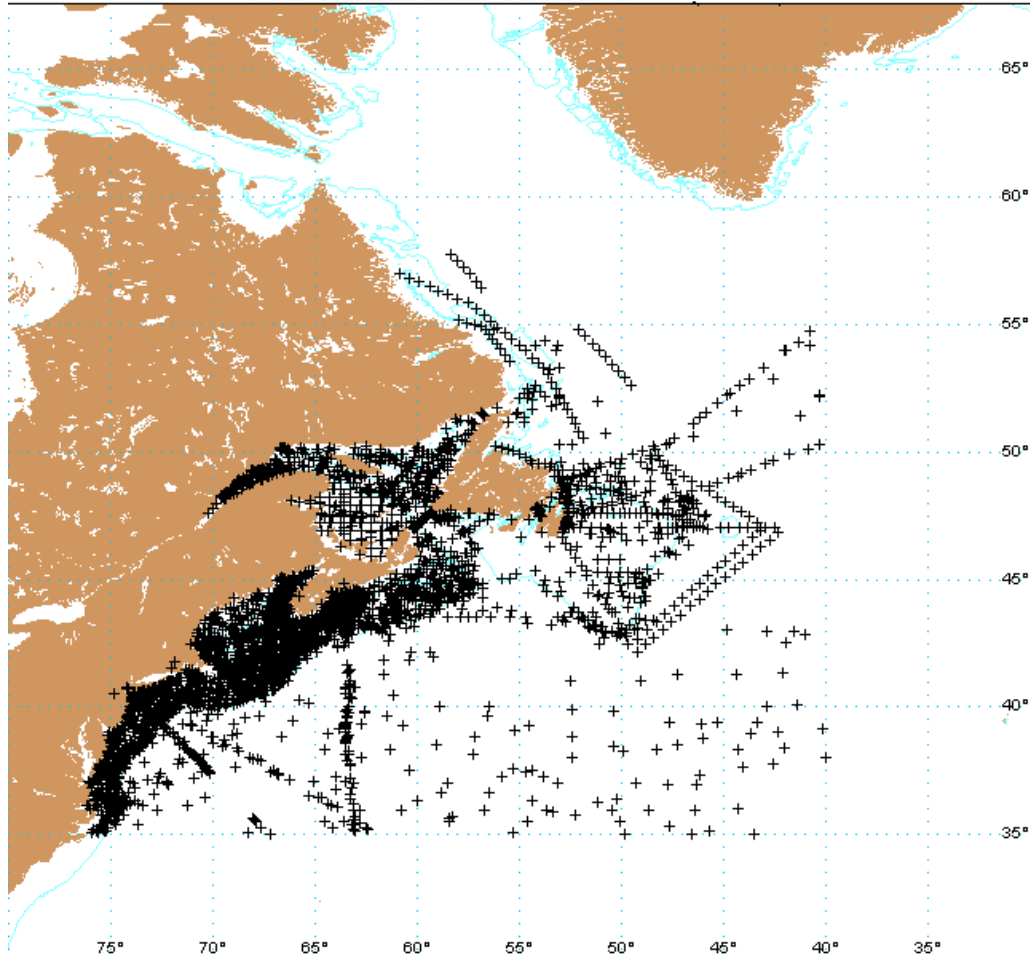
MEDS / SDMM 10/05/2001

Table 2b TRACKOB data received during 2000

Total = 5590 stations

Ship Name	Country	Call Sign	Cruise Period	TRACKOB	NAFO Subarea
GAUSS	GERMANY	DBBX	00 Jun-09 - Jun-12	71	3L, 3M
CONTSHIP LONDON	LIBERIA	ELVX4	00 Jan-28 - Feb-01	30	3M, 4VS, 4W, 4X, 5ZE, 5ZW, 6A
			Jul-27 - Aug-01	62	3M, 4VS, 4W, 4X, 5ZE, 5ZW, 6B, 6C
			Oct-19 - Oct-21	17	3M, 3N, 4VS
CONTSHIP WASHINGTON	LIBERIA	ELVZ5	00 Mar-11 - Mar-17	119	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
			Jun-06 - Jun-12	120	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
			Dec 08 - Dec 15	147	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
CONTSHIP ROME	LIBERIA	ELVZ6	00 Apr-02 - Apr-08	133	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
			Jun-30 - Jul-06	109	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
			Oct-02 - Oct-09	135	3M, 3N, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C, 6F
			Dec 27 - Dec 31	113	3M, 3N, 3O, 4VS, 4W, 4X, 5ZE, 5ZW, 6A
UNKNOWN/ INCONNU	USA	KWAL	00 Apr-21 - Apr-28	3	1C, 3L, 5ZE
			Jun-03 - Jun-03	1	1B
			Jun-12 - Jun-12	1	6B
			Jun-23 - Jun-25	2	1B, 6A
			Jul-28 - Jul-28	1	3N
		Aug-04 - Aug-04	1	1D	
		NOCALL	00 Jan-31 - Jan-31	1	5ZW
			Jun-22 - Jun-22	1	6A
			Jul-28 - Jul-29	2	4VS, 4X
			Oct-25 - Oct-25	1	6D
Nov-01 - Nov-01	1		6D		
NUKA ARCTICA	DENMARK	OXYH2	00 Feb-16 - Feb-17	9	1B, 1C, 3L
			Feb-26 - Feb-26	1	1B
			Apr-19 - Apr-28	216	1B, 1C, 1D, 1E, 1F
			May-10 - May-17	136	1B, 1C, 1D, 1E, 1F
			Jun-01 - Jun-10	246	1B, 1C, 1D, 1E, 1F
			Jun-22 - Jun-29	178	1B, 1C, 1D, 1E, 1F
			Jul-13 - Jul-21	172	1B, 1C, 1D, 1E, 1F
			Aug-03 - Aug-10	172	1B, 1C, 1D, 1E, 1F
			Aug-23 - Aug-31	184	1B, 1C, 1D, 1E, 1F
			Sep-14 - Sep-22	168	1B, 1C, 1D, 1E, 1F
			Oct-04 - Oct-12	154	1B, 1C, 1D, 1E, 1F
			Oct-25 - Nov-01	164	1B, 1C, 1D, 1E, 1F
			Nov-22 - Nov-23	26	1D, 1E, 1F
			Dec 06 - Dec 15	212	1B, 1C, 1D, 1E, 1F
OLEANDER	NETHERLAND	PJJU	00 Apr-07 - Apr-08	20	6A
			Apr-13 - Apr-14	17	6A
			May-18 - May-20	28	6A
			Jun-08 - Jun-09	17	4VS, 6A
			Jun-15 - Jun-17	28	6A
			Jun-22 - Jun-24	15	6A
			Jul-21 - Jul-21	1	6A
			Aug-04 - Aug-04	3	6A
			Aug-17 - Aug-18	6	6A
			Sep-01 - Sep-01	5	6A
HANNE SIF	SINGAPORE	S6LA	00 Oct-20 - Dec 08	605	5ZW, 6A, 6B, 6C, 6D
			Apr-18 - May-01	275	3K, 3L, 3M, 3PS, 4VN, 4VS, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
			May-12 - May-28	353	1F, 2J, 3K, 3L, 3PS, 4VN, 4VS, 4W, 4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
			Jun-08 - Jun-16	205	3K, 3L, 3PS, 4VN, 4VS, 4W, 4X, 5Y, 5ZW, 6A, 6B, 6C
			Jun-22 - Jun-24	47	1F, 2J, 3K, 3L, 3PS
			Jul-02 - Jul-07	60	1F, 2J, 3K, 3L, 3PS, 4W, 4X
			Jul-14 - Jul-22	170	1F, 2J, 3K, 3L, 3PS, 4VN, 4W, 4X, 5ZE, 5ZW, 6B, 6C
			Jul-31 - Aug-19	463	1F, 2J, 3K, 3L, 3PS, 4VN, 4VS, 4W, 4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
			Aug-29 - Sep-04	152	1F, 2J, 3K, 3L, 3PS, 4VN, 4VS, 4W, 4X, 5Y, 5ZW
UNKNOWN/ INCONNU	UNKNOWN/ IN	SHIP	00 Apr-23 - Apr-23	1	4X

Table 3: Delayed mode Oceanographic Stations Archived at MEDS for 2000
NAFO DELAYED MODE 2000



Retrieval Area / Lat 58.00 to à 35.00
 Aire de recherche Lon 40.00 to à 76.00
 Retrieval Period / 2000/01 to à 2000/12
 Période de recherche

MEDS / SDMM 07/05/2001

Table 3: Delayed mode data received during 2000. Total = 5471 stations

Country	Cruise Num	Cruise Period	BT	CTD	BOTTLE	NAFO Subarea
CANADA	181C00001	Aug-22 - Aug-22	0	1	0	3L
		Aug-29 - Aug-31	0	2	0	3L, 4R
CANADA	181C00002	Apr-06 - Apr-06	0	2	0	3L
CANADA	181C00003	Apr-07 - Apr-16	6	1	0	3L, 3PS, 3PN
CANADA	181C00004	Apr-24 - Apr-25	3	0	0	3PS
		May-02 - May-02	0	1	0	3L
CANADA	181C00005	May-06 - May-19	6	94	0	3L, 3O, 3PS
CANADA	181C00006	May-20 - Jun-02	3	88	0	3L, 3N, 3O
CANADA	181C00007	Jun-03 - Jun-06	3	1	0	3L, 3N
		Jun-11 - Jun-16	3	1	0	3L
CANADA	181C00008	Jun-17 - Jun-20	3	1	0	3L
		Jun-30 - Jun-30	0	1	0	3L
		Jul-09 - Jul-09	1	1	0	3L

CANADA	181C00009	Oct-10 - Oct-18	4	1	0	3L, 30
CANADA	181C00010	Oct-22 - Oct-25	3	1	0	3L, 30
		Oct-30 - Oct-30	0	1	0	3L
CANADA	181C00011	Nov-15 - Nov-20	0	26	0	3L, 30
CANADA	181C00012	Nov-21 - Dec 01	1	56	0	3L, 3N, 30
CANADA	181C00013	Dec 02 - Dec 07	4	0	0	3L, 3N
		Dec 15 - Dec 15	1	0	0	3L
CANADA	181C00014	Jul-17 - Jul-31	0	114	0	3L
CANADA	189000001	Feb-09 - Feb-09	0	2	0	4S, 4T
		Feb-25 - Feb-26	0	2	0	4S, 4T
		Mar-09 - Mar-09	0	2	0	4S, 4T
		May-04 - May-05	0	2	0	4S, 4T
		Jul-05 - Jul-05	0	2	0	4S, 4T
		Aug-09 - Aug-09	0	2	0	4S, 4T
		Aug-24 - Aug-24	0	2	0	4S, 4T
		Sep-26 - Sep-26	0	2	0	4S, 4T
		Oct-13 - Oct-13	0	2	0	4S, 4T
		Oct-25 - Oct-25	0	2	0	4S, 4T
		Nov-08 - Nov-08	0	2	0	4S, 4T
		Nov-19 - Nov-20	0	2	0	4S, 4T
CANADA	189900001	Jun-27 - Aug-12	0	40	0	3L
CANADA	189900035	Jul-07 - Jul-10	0	25	0	4T
CANADA	189900054	Sep-12 - Sep-13	0	4	0	4T
		Sep-20 - Sep-20	0	2	0	4T
CANADA	189900100	Jan-28 - Jan-30	11	0	0	4X
CANADA	189900101	Feb-22 - Feb-23	5	0	0	4X
CANADA	189900102	Mar-14 - Mar-16	11	0	0	4X
CANADA	189900103	Mar-30 - Apr-03	7	0	0	4X
CANADA	189900104	Apr-25 - Apr-25	6	0	0	4X
CANADA	189900105	May-30 - Jun-02	15	0	0	4X
CANADA	189900106	Jun-05 - Jun-05	4	0	0	4W
CANADA	189900107	Jul-06 - Jul-09	71	0	0	4X
CANADA	189900108	Jul-06 - Jul-06	1	0	0	4X
		Jul-11 - Jul-14	26	0	0	4X
CANADA	189900109	Jul-12 - Jul-14	24	0	0	4X
CANADA	189900110	Jul-05 - Jul-08	25	0	0	4X, 5Y
		Jul-18 - Jul-20	10	0	0	5ZE
CANADA	189900111	Jul-05 - Jul-12	28	0	0	4X
CANADA	189900112	Jul-12 - Jul-13	12	0	0	4X, 5Y
CANADA	189900113	Jul-27 - Jul-28	6	0	0	5ZE
CANADA	189900114	Oct-13 - Oct-14	2	0	0	4W
CANADA	189900115	Oct-17 - Oct-18	6	0	0	4W
CANADA	189900116	Aug-19 - Aug-25	3	0	0	4W
		Oct-23 - Oct-27	7	0	0	4W
CANADA	189900117	Nov-21 - Nov-22	3	0	0	4W
CANADA	189900118	Feb-13 - Feb-13	5	0	0	4X
CANADA	18AH00002	Jun-19 - Jun-22	10	0	0	4W, 4X
CANADA	18AH00003	Nov-20 - Nov-29	4	0	0	3N, 3O, 4VS, 4W
CANADA	18AH00004	Dec 11 - Dec 14	10	0	0	4W, 4X
CANADA	18AV00001	Apr-24 - May-02	15	0	0	2J, 3K, 3L
CANADA	18BG00013	May-03 - May-03	0	1	0	4T
		May-12 - May-16	0	2	0	4T
		May-26 - May-26	0	1	0	4T
		Jun-02 - Jun-06	0	2	0	4T
		Jun-13 - Jun-13	0	1	0	4T
		Jun-19 - Jun-19	0	1	0	4T
		Jun-29 - Jun-29	0	1	0	4T
		Jul-07 - Jul-07	0	1	0	4T
		Jul-13 - Jul-18	0	2	0	4T
		Jul-24 - Jul-24	0	1	0	4T
		Aug-01 - Aug-01	0	1	0	4T
		Aug-08 - Aug-08	0	1	0	4T
		Aug-15 - Aug-15	0	1	0	4T
		Aug-22 - Aug-22	0	1	0	4T
		Aug-29 - Aug-29	0	1	0	4T
		Sep-20 - Sep-20	0	1	0	4T
		Sep-29 - Oct-04	0	2	0	4T
		Oct-17 - Oct-17	0	1	0	4T
CANADA	18C800001	Feb-17 - Mar-09	45	0	0	4W, 4X, 5Y, 5ZE
CANADA	18C800002	Mar-22 - Mar-22	5	0	0	4W, 4X
CANADA	18C800003	Oct-04 - Oct-05	3	0	0	4X, 5ZE
CANADA	18CN00012	May-11 - May-12	0	7	0	4S
CANADA	18DE00036	Jul-31 - Aug-07	0	5	0	4T
CANADA	18FN00001	Jan-12 - Jan-14	8	0	0	4X
CANADA	18FN00003	Sep-25 - Sep-27	6	0	0	4W, 4X
CANADA	18FN00004	Oct-02 - Oct-03	4	0	0	4W, 4X, 5ZE

CANADA	18FW00001	Jan-10 - Jan-10	0	1	1	4W
CANADA	18GB00029	Jun-12 - Jun-12	0	2	0	4T
CANADA	18HE00006	Mar-08 - Mar-08	0	0	1	4T
CANADA	18HE00035	Jul-09 - Jul-09	0	20	0	4T
CANADA	18HE00903	Feb-25 - Feb-25	0	1	0	4T
CANADA	18HL00001	Jan-10 - Jan-15	13	0	0	4W,4X
CANADA	18HL00002	Mar-21 - Mar-22	5	0	0	4W,4X
		Apr-19 - Apr-20	6	0	0	4W,4X,5ZE
CANADA	18HL00003	Feb-07 - Feb-09	7	0	0	4W,4X
CANADA	18HL00004	Feb-14 - Mar-02	44	0	0	4W,4X
CANADA	18HL00005	Jun-13 - Jun-15	6	0	0	4W,4X
CANADA	18HL00006	Jun-19 - Jun-22	12	0	0	4W,4X
CANADA	18HL00007	Jul-25 - Jul-28	8	0	0	3K,3L,3PS,4VS,4W
CANADA	18HT00011	Jul-11 - Jul-11	0	1	1	4X
CANADA	18HU00001	Nov-01 - Nov-11	27	88	0	3K,3L,3M,3N,3O
CANADA	18HU00004	May-21 - May-21	0	1	0	4X
		Jun-08 - Jun-08	0	1	0	4W
CANADA	18HU00009	May-08 - May-08	0	0	1	4W
		Jun-08 - Jun-08	0	0	1	4W
CANADA	18HU00050	Sep-30 - Oct-16	0	3	53	3PS,4R,4VN,4VS,4W,4X
		Oct-25 - Oct-25	0	1	1	4W
CANADA	18HU00062	Nov-28 - Dec 07	0	77	0	4R,4S,4T,4VN
CANADA	18HU00066	Nov-22 - Nov-22	0	1	1	4W
CANADA	18HU00068	Dec 08 - Dec 08	0	0	1	4W
CANADA	18IS00001	Feb-29 - Mar-03	12	0	0	4W,4X
CANADA	18IS00002	Mar-21 - Mar-22	5	0	0	4W,4X
CANADA	18IS00003	May-08 - May-12	7	0	0	4R,4W
		May-17 - May-17	3	0	0	4W
CANADA	18IS00004	Jun-19 - Jun-22	14	0	0	4W,4X
CANADA	18IS00005	Sep-11 - Sep-14	10	0	0	4W,4X
CANADA	18IS00006	Sep-25 - Sep-27	6	0	0	4W,4X
CANADA	18IS00007	Oct-02 - Oct-04	5	0	0	4X,5ZE
CANADA	18IS00008	Nov-14 - Nov-16	8	0	0	4W
CANADA	18IS00009	Nov-20 - Nov-22	8	0	0	4W,4X
CANADA	18IS00010	Dec 04 - Dec 06	4	0	0	4X
CANADA	18MF00015	May-18 - May-29	0	53	0	4R,4S,4T
CANADA	18MF00022	May-31 - Jun-03	0	18	0	4S,4T
CANADA	18MF00024	Jun-11 - Jul-03	0	196	0	4R,4S,4T,4VN
CANADA	18MF00035	Jul-06 - Jul-12	0	29	0	4T
CANADA	18MF00052	Sep-03 - Sep-12	0	59	0	4S,4T
CANADA	18MP00001	Jun-26 - Jun-29	6	0	0	4X,5Y,5ZE,5ZW
		Jul-09 - Jul-21	26	0	0	4W,4X,5Y,5ZE,5ZW
		Jul-26 - Aug-01	9	0	0	3O,3PS
CANADA	18MP00002	Mar-21 - Mar-22	5	0	0	4W,4X
CANADA	18MP00003	Jun-20 - Jun-21	4	0	0	4W
CANADA	18MP00004	Jun-14 - Jun-15	3	0	0	4W,4X
CANADA	18MP00005	Sep-15 - Sep-28	30	0	0	3L,3N,3O,4VS,4W
CANADA	18NE00001	Feb-15 - Feb-15	0	1	1	4X
CANADA	18NE00002	Mar-01 - Mar-01	0	1	1	4W
		Mar-17 - Mar-17	0	1	1	4W
CANADA	18NE00026	Jun-29 - Jun-29	0	1	1	4W
		Jul-05 - Jul-15	0	97	1	4W,4X,5Y
CANADA	18NE00031	Jul-18 - Jul-29	0	120	1	4VN,4VS,4W
CANADA	18NE00037	Aug-05 - Aug-31	0	242	0	3PN,4R,4S,4T,4VN
CANADA	18NE00045	Sep-17 - Sep-17	0	1	1	4T
CANADA	18NE99065	Feb-15 - Feb-25	0	50	0	4X,5ZE
CANADA	18NE99066	Mar-01 - Mar-17	0	120	119	4VS,4W
CANADA	18OK00001	Apr-04 - Apr-07	0	8	0	3PS
		Apr-19 - Apr-19	0	1	0	3L
CANADA	18OK00002	Apr-26 - May-04	0	8	0	3PS
CANADA	18OK00003	May-21 - Jun-03	0	21	0	3L
CANADA	18OK00004	Jun-07 - Jun-15	0	7	0	3L
CANADA	18OK00005	Jul-18 - Jul-26	0	7	0	3K,3L
CANADA	18OK00006	Jul-31 - Aug-10	0	23	0	3L
CANADA	18OK00007	Sep-25 - Oct-05	0	18	0	3L
CANADA	18OK00008	Nov-05 - Nov-16	20	8	0	3PS
CANADA	18OP00001	May-01 - May-01	0	1	1	4T
		May-15 - May-15	0	1	1	4T
		Jun-02 - Jun-02	0	1	1	4T
		Jun-26 - Jun-26	0	1	1	4T
		Jul-23 - Jul-23	0	1	1	4T
		Aug-14 - Aug-14	0	1	1	4T
		Aug-29 - Aug-29	0	1	1	4T
		Oct-02 - Oct-02	0	1	1	4T
CANADA	18PA00001	Jan-28 - Jan-28	0	1	1	4X
		Feb-21 - Feb-21	0	0	1	4X

		Mar-03 - Mar-03	0	0	1	4X
		Mar-14 - Mar-14	0	0	1	4X
		Mar-29 - Mar-29	0	0	1	4X
		Apr-25 - Apr-25	0	0	1	4X
		May-17 - May-17	0	0	1	4X
		May-31 - May-31	0	0	1	4X
		Jun-15 - Jun-15	0	0	1	4X
		Jun-28 - Jun-28	0	0	1	4X
		Jul-31 - Jul-31	0	0	1	4X
		Aug-15 - Aug-15	0	0	1	4X
		Aug-28 - Aug-28	0	0	1	4X
		Sep-14 - Sep-14	0	0	1	4X
		Sep-25 - Sep-25	0	0	1	4X
		Oct-16 - Oct-16	0	0	1	4X
		Nov-06 - Nov-06	0	0	1	4X
		Nov-14 - Nov-14	0	0	1	4X
		Nov-29 - Nov-29	0	0	1	4X
CANADA	18PA00003	Mar-03 - Mar-03	0	1	0	4X
CANADA	18PA00004	Mar-14 - Mar-14	0	1	0	4X
CANADA	18PA00006	Mar-29 - Mar-29	0	1	0	4X
		Apr-25 - Apr-25	0	1	0	4X
CANADA	18PA00007	May-17 - May-17	0	1	0	4X
CANADA	18PA00008	May-31 - May-31	0	1	0	4X
CANADA	18PA00009	Jun-15 - Jun-15	0	1	0	4X
		Jun-28 - Jun-28	0	1	0	4X
		Jul-31 - Jul-31	0	1	0	4X
		Aug-15 - Aug-15	0	1	0	4X
CANADA	18PA00014	Aug-28 - Aug-28	0	1	0	4X
CANADA	18PA00021	Dec 19 - Dec 19	0	1	1	4X
CANADA	18PA00669	Sep-14 - Sep-14	0	1	0	4X
		Sep-25 - Sep-25	0	1	0	4X
		Oct-16 - Oct-16	0	1	0	4X
		Nov-06 - Nov-06	0	1	0	4X
		Nov-14 - Nov-14	0	1	0	4X
		Nov-29 - Nov-29	0	1	0	4X
CANADA	18PA01002	Dec 27 - Dec 27	0	1	0	4X
CANADA	18PZ00002	Apr-06 - Apr-23	0	85	3	3PS, 4R, 4VN, 4VS, 4W, 4X
		May-02 - May-02	0	0	1	4W
CANADA	18PZ00003	May-08 - May-09	0	1	1	4W
CANADA	18PZ00004	Jun-13 - Jun-14	0	8	0	4W, 4X
CANADA	18PZ00075	Jun-13 - Jun-14	0	1	6	4W, 4X
CANADA	18PZ00666	Jan-31 - Jan-31	0	1	1	4W
CANADA	18QU00250	May-27 - Jun-01	12	0	0	4W
CANADA	18QU00252	Jun-02 - Jun-12	32	0	0	4W
CANADA	18QU00253	Aug-22 - Sep-01	15	22	0	4X
CANADA	18QU00255	Oct-12 - Oct-27	33	3	0	4W
CANADA	18S600001	Jan-12 - Jan-14	9	0	0	4W, 4X
CANADA	18S600002	Jan-19 - Feb-04	37	0	0	3L, 3N, 3O, 3PS, 4VS, 4W, 4X
CANADA	18S600004	May-08 - May-18	37	0	0	4T, 4W, 4X
CANADA	18S900004	Aug-22 - Aug-22	0	1	1	4W
		Sep-12 - Sep-12	0	0	1	4W
CANADA	18TL00001	Jan-04 - Jan-15	0	22	0	2J, 3K, 3L
CANADA	18TL00002	Apr-22 - May-07	64	92	61	3K, 3L, 3M, 3N, 3O
CANADA	18TL00003	Mar-31 - Apr-10	2	34	0	3L, 3O, 3PS, 3PN
CANADA	18TL00004	Apr-13 - Apr-21	0	24	0	3L
CANADA	18TL00005	May-09 - May-29	69	45	0	3K, 3L
CANADA	18TL00006	May-30 - Jun-17	0	40	0	2J, 3K, 3L, 3PS
CANADA	18TL00007	Jul-14 - Jul-30	96	110	0	2G, 2H, 2J, 3K, 3L, 3M
CANADA	18TL00008	Aug-11 - Aug-11	0	1	0	3L
		Aug-17 - Aug-28	18	1	0	3L, 3PS, 3PN, 4VN
CANADA	18TL00009	Sep-15 - Sep-22	0	3	0	4W, 4X
CANADA	18TL00010	Oct-10 - Oct-19	2	33	0	3L, 3N, 3O
CANADA	18TL00011	Oct-21 - Oct-22	1	1	0	3L, 3N
		Oct-30 - Oct-30	1	0	0	3L
CANADA	18TL00012	Nov-04 - Nov-17	17	100	0	2J, 3K
CANADA	18TL00013	Nov-19 - Nov-29	4	0	0	3K
CANADA	18TL00014	Dec 02 - Dec 10	2	25	0	3L
CANADA	18TL00015	Dec 12 - Dec 12	1	0	0	3L
		Dec 18 - Dec 18	0	1	0	3L
CANADA	18TR00001	Feb-21 - Feb-25	23	0	0	4W, 4X
CANADA	18TR00002	Jan-12 - Jan-14	8	0	0	4W, 4X
CANADA	18TR00003	Feb-14 - Feb-16	8	0	0	4W, 4X
CANADA	18TR00004	Mar-21 - Mar-22	10	0	0	4W, 4X
CANADA	18TR00005	Jun-02 - Jun-16	32	0	0	3L, 3M, 3N, 3O, 4VS, 4W
CANADA	18VA00001	Apr-18 - Apr-18	0	1	0	4T
CANADA	18VA00002	Feb-21 - Feb-21	0	1	0	4X

CANADA	18VA00003	Feb-21 - Feb-21	0	1	1	3L
		Feb-29 - Feb-29	0	0	1	3L
CANADA	18VA00004	Mar-15 - Mar-15	0	1	1	3L
CANADA	18VA00005	Apr-04 - Apr-04	0	1	1	3L
CANADA	18VA00006	May-23 - May-23	0	1	1	3L
CANADA	18VA00007	Jun-15 - Jun-15	0	2	1	3L
CANADA	18VA00008	Jun-29 - Jun-29	0	1	1	3L
CANADA	18VA00009	Jan-24 - Jan-24	0	1	1	3L
CANADA	18VA00010	Feb-03 - Feb-03	0	1	1	3L
CANADA	18VA00011	Feb-29 - Feb-29	0	1	0	3L
CANADA	18VA00012	Jun-06 - Jun-06	0	1	0	3L
CANADA	18VA00013	Jun-13 - Jun-13	0	1	0	3L
CANADA	18VA00014	Sep-01 - Sep-01	0	1	0	3L
CANADA	18VA00015	Sep-12 - Sep-12	0	1	0	3L
CANADA	18VA00016	Sep-15 - Sep-15	0	1	0	3L
CANADA	18VA00017	Oct-02 - Oct-02	0	1	0	3L
CANADA	18VA00018	Nov-30 - Nov-30	0	1	0	3L
CANADA	18VA00019	May-16 - May-23	27	0	0	3N, 3O
CANADA	18VA00099	Oct-12 - Oct-12	0	2	0	3PN
CANADA	18VA00100	Apr-18 - Apr-18	0	0	1	4T
CANADA	18VQ00001	Feb-22 - Mar-09	23	0	0	4X, 5Y
CANADA	18VQ00002	May-08 - May-17	34	0	0	4W, 4X
CANADA	18VQ00003	Jun-19 - Jun-21	7	0	0	4W
CANADA	18VQ00004	Jun-26 - Jul-02	3	0	0	4X, 5ZE, 6A
		Jul-11 - Jul-26	19	0	0	4W, 4X, 5Y, 5ZW
		Aug-01 - Aug-03	3	0	0	3PS
CANADA	18VQ00005	Nov-29 - Nov-29	5	0	0	4X
CANADA	18VQ00006	Dec 06 - Dec 14	10	0	0	3L, 3N, 3O, 3PS, 4VS, 4W, 4X
CANADA	18WA00902	Jan-26 - Jan-26	0	1	0	4T
	316G00006	May-27 - Jun-08	0	81	0	4X, 5Y, 5ZE, 5ZW, 6A
	316G00007	Jul-09 - Jul-26	0	106	0	4X
		Aug-01 - Aug-02	0	8	0	4X
		Aug-11 - Aug-28	0	75	0	4X
	316G00008	Sep-13 - Oct-09	0	85	0	4X, 5Y, 5ZE
	31A400001	Feb-24 - Feb-29	0	45	0	5ZE, 5ZW, 6A
	31A400002	Mar-27 - May-03	0	218	0	4X, 5Y, 5ZE, 5ZW, 6A
	31A400003	Jun-20 - Jun-28	0	39	0	5ZE
	31A400004	Jul-25 - Aug-04	0	37	0	5ZE, 6A
		Aug-11 - Aug-17	0	26	0	5ZE
	31A400005	Aug-23 - Aug-29	0	61	0	4X, 5Y, 5ZE, 5ZW
	31A400006	Sep-15 - Oct-20	0	216	0	4X, 5Y, 5ZE, 5ZW, 6A
	31A400007	Nov-03 - Nov-15	0	92	0	4X, 5Y, 5ZE, 5ZW, 6A
	32E300003	May-18 - May-19	3	0	0	4VS, 4W, 4X
	32E300005	Jul-05 - Jul-06	6	0	0	3M, 3N, 4VS
	32E300006	Aug-02 - Aug-02	2	0	0	3M
	32OD00001	Jun-15 - Jun-15	1	0	0	6A
	32OD00004	Aug-04 - Aug-05	4	0	0	6A
	32OD00005	Jun-07 - Jun-10	5	0	0	6A
		Jun-15 - Jun-15	1	0	0	6A
	32OD00006	Jul-07 - Jul-08	11	0	0	6A
	32OD00007	Nov-10 - Nov-11	4	0	0	6A
	33EN00003	Jun-11 - Jun-12	2	0	0	4X, 5ZE
	33EN00005	Jul-23 - Jul-24	3	0	0	3N, 4W
	33EN00007	Sep-02 - Sep-03	4	0	0	3N, 3O, 4W
	AGGD00002	Oct-14 - Oct-15	6	0	0	4X, 5Y
	AGGD00003	Nov-11 - Nov-12	8	0	0	4X, 5Y, 5ZW
	AGHA00003	Jan-27 - Jan-29	7	0	0	1F, 3K, 3L
	AGHA00004	Feb-06 - Feb-06	4	0	0	1F, 3K
	SISF00001	Jan-19 - Jan-20	11	0	0	3K, 3L, 3M
	SISF00002	Jan-23 - Jan-24	9	0	0	4X, 5Y, 5ZW
	SISF00004	Mar-20 - Mar-21	7	0	0	4X, 5Y, 5ZW
	SISF00005	Apr-11 - Apr-19	11	0	0	3M, 4X, 5Y, 5ZW, 6A
	SISF00006	May-16 - May-17	7	0	0	4X, 5Y, 5ZW
	SISF00007	Jun-13 - Jun-13	1	0	0	5ZW
	SISF00008	Apr-15 - Apr-18	6	0	0	4X, 5Y, 5ZW
	SISF00009	Jan-23 - Jan-24	9	0	0	4X, 5Y, 5ZW
	SISF00010	Jun-23 - Jun-24	11	0	0	1F, 2J, 3K
	SISF00011	Jul-08 - Jul-08	4	0	0	4X, 5Y
	SISF00012	Mar-20 - Mar-21	6	0	0	4X, 5Y, 5ZW

Table 4: Historical data (from years prior to 2000), received at MEDS since last NAFO report.

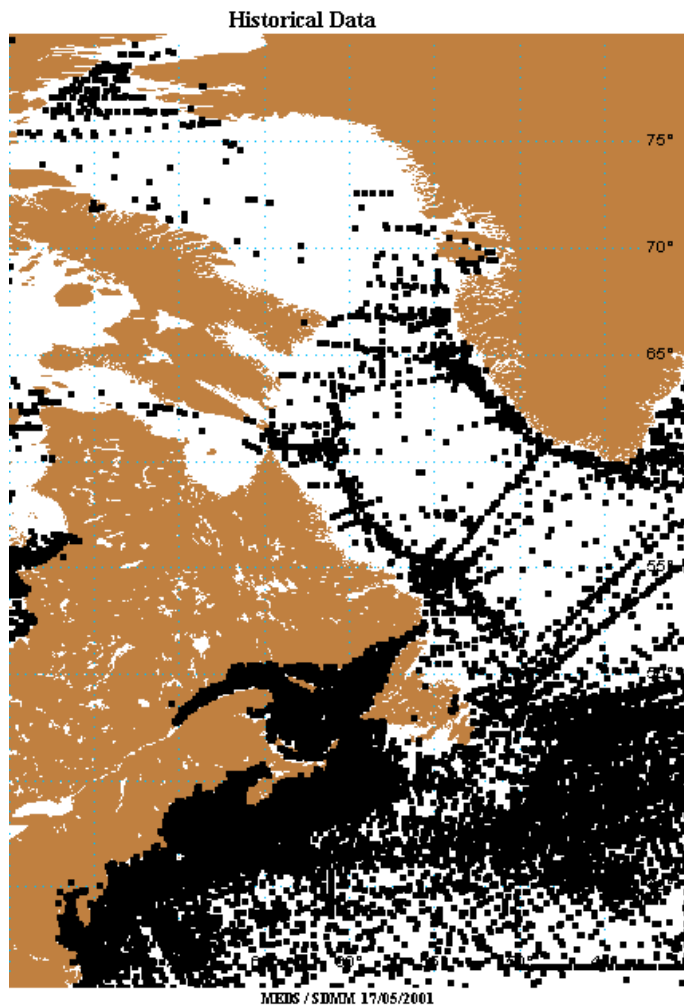


Table 4a: HISTORICAL DATA PROCESSED AND ARCHIVED Total = 39435 stations

Cruise No	Year	BT	Bottle	CTD	NAFO Subarea
06AZ92001	1994	19	0	0	XX
06DA94001	1995	2	0	0	XX, 1F
06DA95001	1997	5	0	0	XX, 1F
06DA97001	1998	8	0	0	XX, 1F
06DA98001	1993	5	0	0	XX, 1F
06DN93001	1993	4	0	0	1F, XX
06GA93001	1996	43	0	0	3N, XX, 3M
06GA96001	1996	52	0	0	XX, 3M, 3N, 4V, 3O
06GA96002	1998	38	0	0	3M, 3L, XX
06GA98001	1998	46	0	0	3N, 3M, XX
06GA98002	1988	32	0	0	XX, 3M, 3L
06KB88002	1988	6	0	0	3M, 3N, XX
06KB88003	1988	5	0	0	3M, 3L, XX
06KB88004	1988	5	0	0	3M, 3L, XX
06KB88005	1988	9	0	0	3L, XX, 3M
06KB88006	1988	5	0	0	3M, XX, 3L
06KB88007	1988	9	0	0	3N, XX, 3M, 3O
06KB88008	1988	8	0	0	XX, 3M, 3L
06KB88009	1988	6	0	0	3M, XX, 3N
06KB88010	1988	6	0	0	XX, 3M, 3N

06KB88011	1988	7	0	0	XX, 3M, 3L
06KB88012	1988	7	0	0	3M, 3L, XX
06KB88013	1988	12	0	0	3L, 3M, XX
06KB88014	1988	5	0	0	3M, 3L
06KB88015	1988	7	0	0	3M, 3N
06KB88016	1989	5	0	0	3L, 3M, XX
06KB89002	1989	5	0	0	XX, 3M
06KB89003	1989	23	0	0	XX, 3P, 3M, 3N, 4V, 3O
06KB89004	1989	14	0	0	3N, 3M, XX
06KB89005	1989	10	0	0	3M, XX, 3N
06KB89006	1989	26	0	0	4W, 4V, XX, 3N, 3M, 3O
06KB89007	1989	12	0	0	3M, XX, 3N
06KB89008	1989	13	0	0	3M, 3N, XX
06KB89009	1989	13	0	0	3M, XX, 3N
06KB89010	1989	11	0	0	3L, 3M, XX
06KB89011	1989	12	0	0	3L, 3M, XX
06KB89012	1989	13	0	0	XX, 3M, 3L
06KB89013	1989	12	0	0	3M, 3L, XX
06KB89014	1989	12	0	0	3M, XX, 3L
06KB89015	1989	10	0	0	XX, 3M, 3L
06KB89016	1990	8	0	0	3M, 3L
06KB90002	1990	3	0	0	XX
06KB90003	1990	6	0	0	3M, XX
06KB90004	1990	11	0	0	XX, 3L, 3M
06KB90005	1990	16	0	0	3M, XX, 3N
06KB90006	1990	31	0	0	4V, XX, 3N, 3M, 3O, 4W
06KB90007	1990	31	0	0	3M, 4V, 3N, 4W, 3O, XX
06KB90008	1990	24	0	0	3O, 4V, 3M, 3P, 3N, XX
06KB90009	1990	12	0	0	XX, 3M, 3N
06KB90010	1990	12	0	0	3M, 3L, XX
06KB90011	1990	14	0	0	XX, 3M, 3L
06KB90012	1990	12	0	0	3L, 3M, XX
06KB90013	1990	24	0	0	3L, 3M, XX
06KB90014	1990	25	0	0	XX, 3L, 3M
06KB90015	1991	11	0	0	3M, 3N, XX
06KB91002	1991	2	0	0	XX, 3M
06KB91003	1991	10	0	0	3M, XX, 3N
06KB91004	1991	1	0	0	3M
06KB91005	1991	29	0	0	4W, 3M, XX, 4V, 3O, 3N
06KB91006	1991	36	0	0	4X, 3M, 3N, 5Z, 4W, 3O, 4V, XX
06KB91007	1991	2	0	0	3M
06KB91008	1991	9	0	0	XX, 3N, 3M
06KB91009	1991	30	0	0	5Z, 3O, 3M, 4V, 4W, XX, 4X, 3N
06KB91010	1991	8	0	0	4W, 3O, 4X, 3M
06KB91011	1992	12	0	0	3N, 3M, XX
06KB92002	1992	9	0	0	3L, 3M, XX
06KB92003	1992	21	0	0	3M, 3N, XX
06KB92004	1992	32	0	0	3M, 3N, 4W, 4V, 3O, XX
06KB92005	1992	7	0	0	5Z, 4W, 4X
06KB92006	1992	12	0	0	XX, 3M, 3N
06KB92007	1992	39	0	0	4X, 5Z, 4W, 3N, 4V, 3M, 3O, XX
06KB92008	1992	21	0	0	3N, XX, 3M
06KB92009	1992	3	0	0	3N
06KB92010	1992	29	0	0	3O, 4V, XX, 4W, 3M, 4X, 3N
06KB92011	1992	10	0	0	3M, XX, 3N
06KB92012	1992	10	0	0	3M, 3L, XX
06KB92013	1993	14	0	0	3M, XX, 3N
06KB93002	1993	14	0	0	3N, 3M, XX
06KB93003	1993	35	0	0	3N, XX, 4W, 3O, 4V, 3M, 5Z, 4X
06KB93004	1993	39	0	0	4W, 3N, XX, 4V, 4X, 5Z, 3M, 3O
06KB93005	1993	36	0	0	4W, 4X, 3M, 4V, 3N, 3O, XX
06KB93006	1993	31	0	0	3N, 4V, 3M, 4W, XX, 4X, 3O, 5Z
06KB93007	1993	19	0	0	3L, 3M, 4W, 4V, XX
06KB93008	1993	20	0	0	3O, 4W, XX, 4X, 4V, 3M, 3N, 5Z
06KB93009	1993	19	0	0	4V, 3M, 4W, 3L, 3P, 3O, XX, 4X, 5Z
06KB93010	1994	7	0	0	3M, XX
06KB94002	1994	6	0	0	XX, 3N, 3M
06KB94003	1994	9	0	0	4W, 3M, XX, 3N
06KB94004	1994	29	0	0	4V, 5Z, 3O, XX, 3M, 3N, 4X, 4W
06KB94005	1994	32	0	0	3O, 4X, 3N, 3M, 4W, 4V, XX, 5Z
06KB94006	1994	36	0	0	XX, 4W, 3N, 3O, 4V, 3M, 4X, 5Z
06KB94007	1994	37	0	0	3M, 4V, 4W, 3O, 3N, 4X, XX, 5Z
06KB94008	1994	13	0	0	3M, XX, 3K, 3L
06KB94009	1995	9	0	0	3M, XX, 3L
06KB95002	1995	8	0	0	XX, 3M
06KB95003	1995	17	0	0	3N, 3M, XX, 3O

06KB95004	1995	29	0	0	XX, 3N, 4V, 3M, 4W, 3O
06KB95005	1995	30	0	0	3M, 4W, 3O, 4V, XX, 3N
06KB95006	1995	12	0	0	3M, XX, 3L
06KB95007	1995	8	0	0	3M, XX, 3L
06KB95008	1995	22	0	0	3N, 3M, XX
06KB95009	1994	7	0	0	3M, XX
06MT94001	1997	72	0	0	2H, XX, 1F, 2J, 3M, 3N
06MT97001	1997	48	0	0	3N, 3M, XX
06MT97002	1963	7	0	0	XX
06WH00600	1964	0	25	0	1D, 1E, 1B, 1C
06WH00610	1965	0	67	0	1F, 1E, 1D, XX, 1C, 1B
06WH00620	1966	0	63	0	XX, 1B, 3L, 3M, 3O, 1D, 0B, 2G, 1F, 2H, 3N, 2J, 3K, 5Z, 1C
06WH00700	1969	0	33	0	2J, 3L, 2H, 4W, 3O, 3M
06WH00710	1967	0	48	0	1D, XX, 1E, 1C, 2J, 2H, 1B, 2G
06WH00820	1968	0	72	0	2G, 1C, 2J, 2H, 1D, 1F, 1B, XX, 1E
06WH00830	1969	0	84	0	XX, 1E, 1C, 1B, 1F, 1D
06WH00840	1970	0	163	0	1D, 3O, 1C, 5Z, 2G, 3L, 4X, 3K, 2J, 4V, 4W, 1E, 1B, 3P, 1F, 3M
06WH01020	1971	0	301	0	5Z, 4X, 4W, 1D, 1C, 2J, 5Y, 6A, 3K, 2H, XX, 1F, 2G
06WH01580	1972	0	99	0	2G, 1D, 3K, 4X, 2J, 2H, 1C, 1F, 5Z, 1E, 5Y, XX
06WH01670	1989	0	10	0	3P, 4V
06WH89002	1992	1	0	0	XX
06WH92001	1993	12	0	0	1F, XX
06WH93001	1999	4	0	0	XX
06WH99211	1993	0	0	98	1F, 1C, 1D, 1E, 1B, XX
06YC93001	1993	10	0	0	5Y, 4X, 5Z
06YC93002	1993	10	0	0	4X, 5Z, 5Y
06YC93003	1993	8	0	0	5Y, 5Z, 4X
06YC93004	1993	8	0	0	5Y, 4X, 5Z
06YC93005	1993	9	0	0	4X, 5Y, 5Z
06YC93006	1993	13	0	0	4X, 5Z, 5Y
06YC93007	1993	10	0	0	5Y, 4X, 5Z
06YC93008	1993	5	0	0	5Y, 5Z, 4X
06YC93009	1993	8	0	0	5Y, 4X
06YC93010	1963	8	0	0	4X, 5Y, 5Z
180163003	1969	0	1	0	2G
180369025	1973	1	0	0	4X
180373600	1974	0	1	0	4X
180374600	1975	0	12	0	4X
180375600	1976	0	11	0	4X
180376600	1977	0	11	0	4X
180377600	1978	0	12	0	4X
180378600	1979	0	12	0	4X
180379008	1979	0	106	0	4X, 4W, 4V
180379009	1979	0	65	0	4X, 5Y, 4W, 5Z
180379018	1979	0	91	0	4V, 4W, 4X
180379022	1979	0	126	0	4W, 4V, 4X, 5Z
180379023	1979	0	125	0	4W, 4V, 4X, 5Z
180379024	1979	0	118	0	4W, 4X, 4V, 5Z
180379600	1980	0	12	0	4X
180380001	1980	0	92	0	4W, 4X, 4V, 5Z
180380005	1980	0	138	0	4V, 4W, 4X, 5Z
180380006	1980	0	153	0	4V, 4W, 4X, 5Z
180380010	1980	0	1	0	4T
180380011	1980	0	90	0	4W, 4X, 4V
180380015	1980	0	100	0	4W, 4V, 4X
180380600	1981	0	12	0	4X
180381002	1981	0	156	0	4X, 4W, 4V, 5Y, 5Z
180381017	1981	0	109	0	4X, 4V, 4W
180381600	1982	0	12	0	4X
180382010	1982	0	1	0	4T
180382600	1980	0	9	0	4X
180580021	1983	0	1	0	3O
180583013	1987	0	1	0	3P
180587026	1993	0	13	0	3L, 3K, 2J
180593019	1993	0	1	0	3L
180593023	1993	0	3	0	3L
180593024	1993	0	2	0	3L
180593029	1993	0	2	0	3L
180593030	1993	0	2	0	3L
180593034	1966	0	5	0	3L
181066002	1971	0	38	0	3M, 4W, XX, 3N, 4X, 6H, 3O
181071034	1971	0	1	0	4X
181071040	1976	0	6	0	4W
181076020	1979	0	4	0	4W
181079052	1979	0	50	0	4W, 4V
181079053	1979	21	21	0	4X, 4W

181079055	1979	22	75	0	4W, 4V, 4X
181079058	1979	0	19	0	4V, 4W
181079059	1984	14	14	0	4W, 4X
181084026	1985	0	16	0	2H, 2J
181085001	1985	0	12	0	4X, 5Z, 6D
181085002	1985	0	2	0	3N, 3O
181085018	1985	0	9	0	2J, 2H, 3K
181085019	1970	0	9	0	2J, 3K, 2H
181870023	1974	1	0	0	4W
181874004	1974	1	0	0	4W
181874025	1996	1	0	0	4W
189096001	1997	0	105	106	4T, 4S
189097003	1998	0	28	28	4T, 4S
189098001	1999	0	18	18	4S, 4T
189099001	1974	0	44	44	4S, 4T
189974001	1995	0	10	0	XX
189995001	1995	0	0	97	3P
189995002	1995	0	0	65	3P
189995003	1995	0	0	129	3P
189995004	1995	0	0	61	3P
189995006	1995	0	0	63	3P
189995007	1995	0	0	51	3P
189995008	1995	0	0	66	3P
189995009	1995	0	0	71	3P
189995010	1995	0	0	73	3P
189995012	1995	0	0	93	3P
189995013	1995	0	0	56	3P
189995014	1996	0	0	71	3P
189996002	1996	0	0	33	3L
189996003	1996	0	0	22	3L
189996004	1996	0	0	36	3L
189996005	1996	0	0	15	3L
189996006	1996	0	0	27	3L
189996007	1996	0	0	16	3L
189996008	1996	0	0	51	3L
189996012	1996	0	0	17	3P
189996013	1996	0	0	35	3P
189996014	1996	0	0	24	3P
189996016	1996	0	0	26	3P
189996017	1996	0	0	9	3P
189996042	1998	0	0	79	4T
189997002	1997	0	0	59	3K
189997003	1997	0	0	33	3K
189997004	1997	0	0	11	3K
189997005	1997	0	0	20	3P
189997008	1997	0	0	2	3P
189997009	1997	0	0	4	3P
189997010	1997	0	0	15	3P
189997011	1997	0	0	35	3L
189997012	1997	0	0	35	3L
189997013	1997	0	0	27	3L
189997014	1997	0	0	49	3L
189997041	1998	0	0	51	4R, XX
189998002	1998	0	0	37	3K
189998003	1998	0	0	18	2J
189998004	1998	0	0	13	3P
189998005	1998	0	0	6	3P, XX
189998006	1998	0	0	14	3P
189998007	1998	0	0	25	3P
189998008	1998	0	0	36	3L
189998009	1998	0	0	38	3K
189998010	1998	0	0	12	3K
189998011	1998	0	0	34	3L
189998012	1998	0	0	27	3L
189998013	1998	0	0	25	3L
189998014	1999	0	0	45	3L
189999001	1999	0	0	12	2J
189999002	1999	0	0	24	3K
189999003	1999	0	0	15	3K
189999004	1999	0	0	10	3K
189999005	1999	0	0	12	3K
189999006	1999	0	0	15	3K
189999007	1999	0	0	17	3L
189999008	1999	0	0	29	3L
189999009	1999	0	0	18	3L
189999010	1999	0	0	15	3L

189999011	1999	0	0	17	3L
189999012	1999	0	0	8	3P
189999013	1999	0	0	9	3P
189999014	1999	0	0	10	3P
189999015	1999	0	0	11	3P
189999016	1999	0	0	13	3P
189999100	1999	8	0	0	4W
189999101	1999	9	0	0	4W
189999102	1999	11	0	0	4W
189999103	1999	9	0	0	4W
189999104	1999	9	0	0	4W
189999105	1999	9	0	0	4W
189999106	1999	10	0	0	4W
189999107	1999	18	0	0	4W, 4V
189999108	1999	8	0	0	4W
189999109	1999	16	0	0	4V, 4W
189999110	1999	17	0	0	4V, 4W
189999111	1999	7	0	0	4W
189999112	1999	7	0	0	4W
189999113	1999	2	0	0	4W
189999114	1999	34	0	0	4V
189999115	1999	14	0	0	4V
189999116	1999	4	0	0	4W
189999117	1999	4	0	0	4W
189999118	1999	8	0	0	4W
189999119	1999	2	0	0	4W
189999120	1999	1	0	0	4W
189999121	1999	6	0	0	4W
189999122	1999	1	0	0	4W
189999123	1999	1	0	0	4W
189999124	1999	2	0	0	4W
189999125	1999	1	0	0	4W
189999126	1999	1	0	0	4W
189999127	1999	3	0	0	4V, 4W
189999128	1999	4	0	0	4W
189999129	1999	4	0	0	4W
189999130	1999	3	0	0	4W
189999131	1999	65	0	0	4X, 5Y
189999132	1999	61	0	0	4X
189999133	1999	60	0	0	4X, 4W
189999134	1999	9	0	0	4X, 5Y
189999135	1999	11	0	0	4X
189999136	1999	11	0	0	4X
189999137	1999	2	0	0	4W
189999138	1999	11	0	0	4X
189999139	1999	11	0	0	4W
189999140	1999	10	0	0	4X
189999141	1999	7	0	0	4X
189999142	1999	10	0	0	4X
189999143	1999	12	0	0	4X, 5Z
189999144	1999	10	0	0	5Z
189999145	1999	9	0	0	5Z
189999146	1999	3	0	0	4W
189999147	1999	16	0	0	4W
189999148	1999	6	0	0	4W
189999149	1999	5	0	0	4W
189999150	1999	5	0	0	4W
189999151	1999	5	0	0	4X
189999152	1999	2	0	0	4X
189999153	1999	4	0	0	4W
18AH99001	1999	18	0	0	4X
18AH99002	1999	8	0	0	4X, 5Z
18AH99005	1997	9	0	0	4X, 4W
18BG97009	1998	0	0	13	4T
18BG98006	1999	0	0	16	4T
18BG99020	1997	0	0	23	4T
18BW97002	1998	0	0	28	4W
18BW98007	1998	0	0	23	4W
18BW98904	1998	0	0	10	4T
18BW98905	1998	0	0	20	4T
18BW98906	1998	0	0	19	4T
18BW98907	1998	0	0	18	4T
18BW98908	1998	0	0	20	4T
18BW98916	1998	0	0	2	4W
18BW98917	1999	0	0	4	XX, 4V
18BW99072	1999	0	0	41	4V

18BW99906	1998	0	0	26	4T
18CN98005	1998	0	0	3	4S
18CN98031	1998	0	0	16	4T
18CN98032	1999	0	0	21	4T
18CN99011	1999	0	0	5	4S
18CY98079	1997	0	0	38	4X, 5Z, 4W
18DE97008	1999	0	0	272	4T, XX
18EG99902	1999	0	0	1	4T
18EG99904	1991	0	0	1	4T
18FC91099	1996	0	0	5	4T
18FC96028	1997	0	0	35	4T
18FC97023	1998	0	0	40	4T
18FC98010	1998	0	0	24	4R, 3P
18FC98013	1998	0	0	20	4T
18FC98029	1993	0	0	47	4T
18FL93046	1993	0	0	54	XX
18FL93050	1999	0	0	39	4R, 4S
18FN99003	1999	66	0	0	4X, 6B, 5Z, 4W, 6D
18FN99004	1999	4	0	0	4X, 4W
18FN99005	1999	13	0	0	4W, 4X
18FN99006	1999	25	0	0	4W, 4X
18FW99006	1999	0	0	9	XX, 4V
18FW99905	1999	0	0	18	XX, 4V, 4W
18GP99043	1999	0	0	36	4T, 4S
18GP99099	1975	0	0	78	4T, 4S
18HE75700	1976	0	0	86	XX
18HE76700	1977	0	0	100	XX
18HE77700	1979	0	0	96	XX
18HE79701	1980	0	0	205	XX
18HE80700	1996	0	0	343	XX
18HE96004	1998	0	40	0	4T, 4S, 4R, 4V
18HE98003	1998	0	26	0	4T, 4S, 4R
18HE98031	1998	0	0	37	4T
18HE98903	1999	0	0	5	2J
18HE99006	1999	0	20	0	4T, 4S, 4R
18HE99903	1997	0	0	2	4T
18HL00006	1999	1	0	0	4W
18HL99001	1999	99	0	0	4X, 4V, 4W
18HT99042	1978	0	0	17	4X, 4W
18HU78026	1983	0	2	0	0A, 1E
18HU83002	1984	0	4	25	6E, 4W
18HU84671	1985	0	3	0	6C
18HU85020	1985	0	0	138	5Z, 6D, 4X
18HU85670	1987	0	12	0	5Z, 6D, 4X
18HU87022	1990	0	2	0	XX
18HU90001	1992	0	0	39	6H, XX, 4V, 4W
18HU92014	1992	0	1	0	2J
18HU92037	1993	0	0	18	3N, XX, 3M, 3O, 4V, 6H
18HU93019	1995	0	27	3	2H, 2J, 1F
18HU95016	1997	0	0	46	4W, 3N, 1F, 3L, 2H, 3K, 2J, 4X, 4V
18HU97003	1997	0	0	52	4V, 3P, 4W, 4X, 4R
18HU97063	1998	0	0	26	4V, 4X, 4W
18HU98002	1998	0	0	55	4W, 4V, 4X, 4R
18HU98007	1998	0	0	47	4X, 3M, 6E, 3O, 3N, 6F, 4V, 6G
18HU98015	1998	0	0	64	4W, 3L
18HU98047	1998	0	0	21	3N, 3P, 4W
18HU98050	1998	0	0	46	4V, 4R, 4W, 4X
18HU98051	1998	0	89	89	4T, 4S, 4V, 4R
18HU98077	1999	0	0	40	4X, 4W, 5Z
18HU99004	1999	0	0	38	4W, 4V, 4X, 4R
18HU99012	1999	0	0	64	3L, 4W, 4V, 4X
18HU99018	1999	0	0	63	3N, 4V, 3P, 3O, 4W
18HU99044	1999	0	0	44	1E, 1F, 6G, XX, 2G, 4W
18HU99053	1999	0	65	65	4S, 4R, 4T, 4V
18HU99054	1999	0	52	53	4W, 4V, 4X, 3P, 4R
18IS99001	1991	50	0	0	4W, 4X, 6B, 5Z
18LL91099	1997	0	0	2	4T
18MF97031	1997	0	0	43	4T, 4S, 4R
18MF97040	1998	0	0	37	4T, 4S
18MF98014	1998	0	0	49	4R, 4S, 4T, 4V
18MF98016	1998	0	0	14	4T, 4S
18MF98022	1998	0	0	24	4R
18MF98024	1998	0	0	52	4T
18MF98030	1998	0	0	17	4T, 4S
18MF98046	1999	0	0	42	4T, 4S
18MF99014	1999	0	0	112	4T, 4S, 4R, 4V

18MF99017	1999	0	0	60	4T, 4R, 4S
18MF99042	1999	0	0	33	4T
18MP99005	1999	50	0	0	4X, 6B, 4W, 5Z
18MP99008	1975	57	0	0	4V, 4W, 3N, 3L, 3O, 3M
18MX75022	1995	0	0	2	4X
18NA95908	1997	0	0	20	XX, 4V, 4W, 4T
18NA97022	1997	0	0	72	4T
18NA97061	1998	0	0	25	4W
18NA98010	1998	0	0	9	4V
18NA98018	1998	0	0	22	4V, 4W, XX
18NA98057	1993	0	0	9	XX, 4V
18NE93001	1993	79	0	0	4X, 4W, 5Y
18NE93002	1993	95	0	0	4W, 4V
18NE93003	1997	23	0	0	4V, 4W
18NE97036	1998	0	0	103	4S, 3P, 4R, 4T, 4V
18NE98023	1998	0	0	136	4T, 4X, 4S
18NE98027	1998	0	0	90	4X, 4W, 5Y
18NE98032	1998	0	0	85	4V, 4W
18NE98035	1998	0	0	236	4R, 4T, 3P, 4S, 4V
18NE98046	1998	0	0	204	4T
18NE98065	1998	0	0	135	4X, 5Y
18NE98068	1999	0	0	119	4W, 4V
18NE98071	1999	0	0	38	5Z
18NE98072	1999	0	0	90	4V, 4W, 4X, 3P
18NE99025	1999	0	96	94	4X, 4W, 5Y
18NE99029	1999	0	106	362	4V, 4W, 4S, 4R, 4T, 3P
18NE99041	1999	0	179	179	4T, 4V
18NE99046	1999	0	0	59	4R
18NE99055	1999	0	0	11	5Z
18NE99060	1999	0	0	10	4W
18NE99065	1975	0	50	0	5Z, 4X, 4W
18NR75700	1967	0	0	23	XX
18OD67001	1967	5	0	0	3M, 4V, 3O
18OD67002	1969	1	0	0	4W
18OD69002	1969	8	0	0	4X, 4W
18OD69003	1985	1	0	0	6E
18OD85001	1985	25	0	0	4X, 4W
18OD85002	1968	6	0	0	4W, 3O, 3M
18OG68001	1968	15	0	0	4W, 4X
18OG68002	1969	17	0	0	4X, 6E
18OG69001	1969	2	0	0	4X
18OG69002	1969	7	0	0	4W
18OG69003	1969	8	0	0	4V, 4X, 6E
18OG69004	1969	2	0	0	4V, 4W
18OG69005	1969	2	0	0	4W, 6E
18OG69008	1969	32	0	0	4X, 4W
18OG69009	1970	26	0	0	4X, 4W, 6E
18OG70001	1970	26	0	0	3M, 4W, 3N
18OG70002	1970	64	0	0	4V, 4W, 4X
18OG70005	1970	14	0	0	4W, 6E, 4X
18OG70006	1970	6	0	0	4X
18OG70010	1970	9	0	0	4X, 4W
18OG70011	1971	38	0	0	4W, 4T
18OG71004	1971	1	0	0	6E
18OG71005	1971	10	0	0	4X, 6E
18OG71006	1971	9	0	0	6C
18OG71007	1973	53	0	0	5Z, 4X, 6B, 6C, 6D
18OG73001	1973	2	0	0	6E, 4W
18OG73004	1973	16	0	0	4X, 4W
18OG73005	1974	8	0	0	4W, 4X
18OG74001	1980	33	0	0	4X, 4W
18OG80001	1980	51	0	0	4W, 6C, 4X, 6D, 5Z
18OG80002	1995	19	0	0	4W, 6E
18OG95001	1995	5	0	0	4W, 4X
18OG95002	1966	12	0	0	4W, 4X
18OJ66001	1966	1	0	0	4X
18OJ66002	1966	7	0	0	4W
18OJ66003	1966	6	0	0	4X, 4W
18OJ66004	1970	4	0	0	4W, 4X
18OJ70001	1999	8	0	0	6E
18PA99669	1976	0	7	0	4X
18PT76700	1994	0	0	166	XX
18PZ94041	1994	0	0	34	4T, 4S
18PZ94047	1995	0	0	114	4S, 4R, 4T
18PZ95030	1995	0	0	89	4S, 4R, 3P
18PZ95044	1996	0	0	40	4T, 4S

18PZ96049	1996	0	0	37	4T, 4S
18PZ96058	1997	0	73	79	4T, 4S, 4R, 4V
18PZ97024	1997	0	65	66	4T, 4S, 4W, 4R, 4V
18PZ97042	1997	0	65	67	4S, 4R, 4T, 4V, 4W
18PZ97071	1998	0	0	49	3P, 3O, 4V, 4W, 4X, 4R
18PZ98038	1999	0	0	238	4W, 5Z, 4X
18PZ98078	1999	0	0	57	4X, 5Z, 4W
18PZ99028	1999	0	0	69	4X, 5Z, 4W
18PZ99074	1993	0	0	38	4V, 4T, 4W, 4R
18QU93002	1993	6	0	0	4W
18QU93003	1997	3	0	0	4W
18QU97242	1998	0	0	56	4W
18RD98012	1998	0	0	441	0A, 1A, XX
18S998918	1995	0	0	1	4X
18SN95026	1997	0	0	12	0A, 3K, 2H, 1E
18SN97020	1999	0	0	62	1A, 2G, 0A, XX, 0B, 1B
18TF99025	1996	0	0	27	4X
18TR00005	1999	1	0	0	3L
18TR99004	1999	77	0	0	4X, 4W, 6B, 6C, 5Z, 6A
18TR99005	1999	36	0	0	4W, 4X
18TR99006	1969	12	0	0	4W, 4X
18VA69001	1970	0	12	0	XX
18VA70001	1976	0	12	0	XX
18VA76001	1989	0	1	0	0A
18VA89912	1989	0	0	24	4T
18VA89914	1990	0	0	17	4X, 4W
18VA90901	1990	0	0	138	4W, 4X
18VA90908	1991	0	0	12	4W, 4X
18VA91099	1991	0	0	6	4T
18VA91902	1991	0	0	116	4X, 4W
18VA91903	1992	0	0	40	4W
18VA92901	1992	0	0	39	4X, 4W
18VA92902	1992	0	0	45	4W, 4X
18VA92903	1992	0	0	73	4W
18VA92906	1993	0	0	10	4V
18VA93001	1993	0	1	0	3L
18VA93002	1993	0	1	0	3L
18VA93004	1993	0	4	0	3L
18VA93007	1993	0	37	0	3L
18VA93901	1993	0	0	95	4X
18VA93902	1993	0	0	45	4W, 4X
18VA93905	1994	0	0	13	4X
18VA94200	1994	22	0	0	4W, 4X, 4T, 3P, 4S, 5Y
18VA94901	1994	0	0	47	4X
18VA94902	1994	0	0	16	4X
18VA94903	1994	0	0	8	4W
18VA94907	1994	0	0	16	4X
18VA94908	1994	0	0	9	4V
18VA94909	1995	0	0	7	4W
18VA95200	1995	40	0	0	4W, 3P, 4V, 3L, 2J, 3N, 4X, 5Z, 5Y
18VA95201	1995	38	0	0	4V, 3O, 4W, 3P, 4X, 4R
18VA95901	1995	0	0	45	4X
18VA95902	1995	0	0	19	4W, 4X
18VA95904	1995	0	0	2	4X
18VA95910	1996	0	0	2	4W
18VA96023	1996	0	0	105	4T, 4S
18VA96029	1996	0	0	131	4T
18VA96200	1996	14	0	0	4X, 4W
18VA96201	1996	36	0	0	4W, 4X
18VA96905	1997	0	0	3	4W
18VA97021	1997	0	0	43	4T
18VA97200	1997	11	0	0	4W, 3P, 4V
18VA97201	1998	32	0	0	4W, 4V, 3O, 4T, 3P
18VA97904	1997	0	0	4	4W
18VA97909	1998	0	0	8	4X
18VA97911	1998	0	0	5	4W
18VA98016	1998	0	0	31	5Z, 4X
18VA98017	1998	0	0	35	5Z
18VA98028	1998	0	0	96	4T
18VA98101	1998	0	0	30	4R
18VA98102	1998	0	0	30	4R
18VA98200	1998	48	0	0	4V, 4W, 3P, 4X, 3L, 5Z, 3N, 3O
18VA98201	1998	69	0	0	3P, 4W, 5Z, 4X, 4V, 3N
18VA98901	1998	0	0	54	4X
18VA98902	1998	0	0	22	4W
18VA98914	1999	0	0	1	4V

18VA99101	1999	0	0	30	4R, 4S, 3K
18VA99102	1999	0	0	30	4R
18VA99103	1999	0	0	32	4R
18VA99105	1999	0	0	30	4R, 3P
18VA99107	1999	0	0	39	4S
18VA99108	1999	0	0	29	4T, 4S
18VA99109	1999	0	0	29	4S, 4T
18VA99111	1999	0	0	30	4R
18VA99112	1999	0	0	30	4R
18VA99113	1999	0	0	30	4R
18VA99115	1999	0	0	29	3P, 4R, 4V
18VA99117	1999	0	0	38	4S
18VA99118	1999	0	0	11	4S, 4T
18VA99119	1999	0	0	25	4S, 4T
18VA99200	1999	39	0	0	4W, 4X, 4V, 5Z, 3O, 3P
18VA99201	1999	40	0	0	4W, 3P, 4V, 4X, 3O
18VA99901	1999	0	0	6	4X
18VQ99002	1999	21	0	0	6B, 4X, 4W, 6C, 6E, 5Z, 6A
18VQ99003	1999	23	0	0	4W, 4X
18VQ99004	1981	10	0	0	4W, 4X
18WA81700	1932	0	0	6	XX, 2G
26 00270	1987	0	2	0	XX
26AJ87260	1988	0	41	0	1A, 1B, 1C, 1D
26AJ88260	1966	0	8	0	1A, 1B, 1D
26DA00300	1971	0	31	0	XX, 1D, 1B, 1E, 1C
26DA00800	1958	0	65	0	1E, 1D, 1C, 1B, 1A, XX
26DA09090	1963	0	65	0	XX, 0B, 1E, 2H, 1C, 1B, 1D, 1A, 1F
26DA63003	1966	0	2	0	1C
26DA66001	1999	0	11	0	1B, 1D, XX, 1E, 1C
26PA99001	1999	0	0	39	1B, 1A
26TU99001	1950	0	0	29	1E, 1F, 1C, 1D, 1B
31 02830	1951	0	440	0	6B
31 02840	1955	0	186	0	6B
311E55001	1956	0	33	0	6C
311E56001	1955	0	363	0	6C
311P55001	1956	0	14	0	5Z
311P56001	1972	0	281	0	5Z
316G20190	1979	0	7	0	6D, 6C, 6B, 5Z
316G79001	1979	0	73	0	5Z, 6B, 5Y, 4X, 6C, 6A
316G79002	1980	0	9	0	5Z, 6C, 6A, 6B
316G80001	1981	0	19	0	5Z, 6A, 5Y, 4X, 6B
316G81001	1984	0	1	0	5Z
316G84002	1993	0	3	0	5Z, 5Y
316G93002	1993	6	0	0	5Z
316G93003	1972	3	0	0	5Z
316N72001	1981	0	6	0	3K, 3M, XX, 1F
316N81001	1998	0	4	0	4W, XX, 1F
316N98156	1993	0	31	33	2H, 1F, 2J
317593001	1982	9	0	0	4V, 4X, 3M, 4W, 3N
319182001	1982	12	0	0	6C, XX
319182002	1993	28	0	0	5Z, 6A
319193011	1993	33	0	0	4X, 4W
319193012	1969	10	0	0	4W, 6E, 4V
319969923	1978	0	1	0	5Y
319978412	1978	0	28	0	5Z, 5Y, 6A, 6B, 4X
319978662	1978	0	72	0	6B, 5Z, 5Y, 6A
319978668	1979	0	35	0	5Z, 5Y
319979693	1979	0	15	0	5Z, 6B, 6A
319979697	1979	0	90	0	5Z, 6B, 5Y, 6C, 6A
319979706	1979	0	50	0	5Z, 6A, 5Y, 6B
319979710	1979	0	23	0	6C, 5Z, 6A, 6B
319979714	1980	0	11	0	5Y, 5Z
319980003	1980	11	0	0	6E, 5Z, 6D, 6B
319980006	1980	1	0	0	3M
319980007	1950	2	0	0	3N, XX
319980075	1980	0	2	0	6B
319980722	1980	0	1	0	5Z
319980723	1980	0	9	0	6A, 6B, 6C, 5Z
319980731	1980	0	67	0	5Z, 6A, 6C, 6B, 5Y
319980740	1980	0	31	0	6B, 6A, 5Z, 6C
319980742	1980	0	56	0	5Z, 5Y, 6A, 6B, 6C, 4X
319980754	1980	0	19	0	6A, 5Z, 6B, 6C
319980755	1981	0	43	0	6A, 5Z, 5Y, 6C, 6B
319980761	1981	0	5	0	4X, 6A, 5Z, 6B
319980768	1981	0	30	0	6B, 6C, 5Z, 6A
319981004	1981	0	1	0	6D

319981005	1981	0	6	0	XX, 1F
319981006	1981	0	6	0	1F, 2H, 2G
319981007	1981	0	5	0	1F, XX
319981008	1981	0	8	0	XX, 3K, 3L
319981009	1981	0	2	0	3M, XX
319981010	1981	0	1	0	6H
319981011	1981	0	7	0	4W, 6F, 4V
319981782	1981	0	73	0	5Z, 6B, 4X, 5Y, 6A
319981806	1982	0	2	0	5Z
319982009	1982	47	0	0	5Z
319982820	1982	0	40	0	5Z, 5Y, 4X, 6A
319982892	1985	0	26	0	6C, 6A, 5Z, 6B, 5Y
319985460	1987	0	2	0	5Y
319987463	1993	0	1	0	5Y
319993010	1993	1	0	0	6B
319993025	1993	0	25	0	6B, 6C
319993026	1993	6	0	0	3K, 4R, 3L, 4S
319993027	1993	1	0	0	4W
319993028	1993	1	0	0	XX
319993030	1993	10	0	0	4W, 4X
319993031	1993	3	0	0	XX
319993033	1993	1	0	0	3N
319993034	1993	1	0	0	3K
319993037	1993	5	0	0	6H, XX
319993039	1993	1	0	0	6D
319993040	1993	1	0	0	6C
319993049	1993	3	0	0	4R, 4S
319993051	1993	5	0	0	4V, 4W, 4X, 5Z
319993052	1993	1	0	0	4R
319993053	1993	5	0	0	3L
319993055	1993	7	0	0	6D
319993056	1993	4	0	0	3M, XX
319993060	1993	3	0	0	XX
319993062	1993	4	0	0	6C, 6E
319993063	1993	6	0	0	3M, XX
319993064	1993	2	0	0	5Z
319993066	1993	4	0	0	3O, 4V
319993067	1993	1	0	0	6C
319993068	1993	3	0	0	6B, 6C
319993069	1993	12	0	0	4T, 4S
319993074	1993	1	0	0	4W
319993075	1993	6	0	0	4W
319993076	1993	4	0	0	XX, 6C
319993077	1993	2	0	0	4W
319993078	1993	3	0	0	XX, 6C
319993079	1993	1	0	0	6B
319993081	1973	1	0	0	6C
31A421600	1973	0	40	0	6C, XX
31A421880	1975	0	32	0	6C, 6A, 6B, 5Z
31A428740	1976	0	114	0	5Z, 4X, 5Y
31A428750	1976	0	90	0	5Z
31A428780	1969	0	6	0	5Z, 4X, 5Y
31A469001	1974	0	8	0	5Z
31A474001	1979	0	22	0	6B, 6A
31A479003	1980	0	4	0	4X, 6A, 5Z
31A480001	1980	0	24	0	6B, 6A, 5Z, 6C
31A480002	1980	0	4	0	6A, 5Z
31A480003	1981	0	18	0	6B, 6A, 5Z, 6C, 5Y
31A481003	1982	0	13	0	5Z, 5Y, 4X
31A482004	1992	0	24	0	6B, 6A, 4X, 5Z, 5Y
31A492006	1995	0	0	154	5Z
31A495001	1997	0	0	35	5Z, 5Y, 4X
31A497001	1997	0	18	0	5Z, 4X
31A497002	1997	0	0	23	4X, 5Z, 5Y
31A497007	1990	0	19	0	5Z, 4X
31AA90001	1990	0	0	30	5Z
31AA90002	1966	0	0	30	5Z
31AN09060	1969	0	35	0	5Y, 5Z, 4X
31AN15870	1975	0	8	0	6A
31AN27300	1966	0	42	0	6A
31AN66001	1936	0	2	0	5Z
31AT03020	1959	0	958	0	3O, 5Z, XX, 5Y, 4X, 6B, 4W, 4V, 6C, 6D, 6A, 3N, 3P, 6E, 3M
31AT04350	1960	0	2	0	6D
31AT09740	1956	0	89	0	6E, 6F, 5Z, 4X, 6D, XX
31AT22880	1957	0	10	0	5Z, 6A
31BE23250	1957	0	23	0	6A, 5Z

31BE23260	1957	0	48	0	5Z, 6A
31BE23270	1957	0	33	0	5Z, 6A
31BE23280	1957	0	25	0	6A, 5Z
31BE23290	1958	0	21	0	5Z, 6A
31BE23300	1958	0	17	0	6A, 5Z
31BE23320	1949	0	5	0	6A
31BM02320	1959	0	78	0	6B, 6C
31CF04290	1957	0	11	0	5Z, 6D
31CF06230	1958	0	11	0	4V, 5Z, 3N, 4W
31CF18150	1959	0	11	0	6D, 5Z, 6C, 6B
31CF18160	1956	0	10	0	5Z, 6D, 6B
31CF22990	1959	0	22	0	5Z, 6A
31CI02070	1979	0	48	0	6C, 6H, 5Z, 6E, 6F, 6G, 6D, XX, 6B
31CI79001	1928	0	45	0	5Z, 5Y
31CN00020	1955	0	8	0	3N, 3L, 3K, 6H, 6D, 3M
31D155001	1956	0	29	0	6C
31D156001	1964	0	341	0	6C
31ED02960	1965	0	1	0	XX
31ED08290	1962	0	2	0	XX
31EV01760	1971	0	349	0	3M, 3N, 3L, 3K, 3O
31EV24280	1963	0	116	0	5Z, 6D, 6B, 6C, 4X, XX, 5Y, 6A
31EV63001	1968	0	23	0	2J, 1F, 0A, 2H
31EV68001	1972	0	62	0	4X, 5Y, 5Z
31EZ28310	1955	0	3	0	XX, 6C
31FF55001	1956	0	17	0	6B
31FF56001	1963	0	306	0	6B
31FP72090	1980	0	1939	0	6B
31KE80001	1980	0	46	0	6A, 6B
31KE80002	1980	0	46	0	6A, 6B
31KE80003	1980	0	46	0	6A, 6B
31KE80004	1981	0	46	0	6A, 6B
31KE81001	1949	0	7	0	6B, 6C, 5Z, 6A
31LL02320	1950	0	38	0	6B, 6C
31LL02330	1950	0	18	0	6B
31LL02340	1972	0	41	0	6B
31LL72001	1972	0	0	72	6B
31LL72002	1972	0	0	39	6B
31LL72003	1972	0	0	1	6B
31LL72004	1972	0	0	26	6B
31LL72005	1984	0	0	26	6B
31M784001	1993	0	75	0	6A, 6B, 6C, 5Z
31M793001	1950	4	0	0	1F, 2J, 6A, 2H
31MU02330	1950	0	119	0	6B, 6C
31MU02340	1950	0	73	0	6B, 6C
31MU02350	1956	0	105	0	6B, 6C
31NN56001	1969	0	306	0	5Z
31RC69158	1970	0	103	0	5Y, 5Z, 4X, 6B, 6A, 6C, 6D
31RC70003	1971	0	75	0	6B, 5Z, 4X, 6C, XX, 6A, 5Y, 6D
31RC71001	1997	0	77	0	6A, 5Y, 6B, 5Z, 4X, 6D
31RU97001	1999	0	0	216	5Z, 6B, 6C, 6A, 5Y
31RU99001	1999	0	0	17	6B
31RU99002	1999	0	0	17	6B, 6C
31RU99003	1999	0	0	38	5Y
31RU99004	1999	0	0	14	5Y
31RU99005	1999	0	0	11	5Y
31RU99006	1999	0	0	17	5Y
31RU99007	1999	0	0	14	6A, 5Y, 5Z
31RU99008	1999	0	0	8	6A
31RU99009	1999	0	0	3	6A
31RU99010	1999	0	0	8	6A, 5Z
31RU99011	1999	0	0	10	5Z, 6A
31RU99012	1999	0	0	11	6A
31RU99013	1999	0	0	22	6A, 5Z
31RU99014	1999	0	0	18	6A, 5Z
31RU99015	1999	0	0	24	6A
31RU99016	1999	0	0	20	6A
31RU99017	1974	0	0	7	6B
31SK74503	1973	0	6	0	5Z
31T370001	1953	0	1	0	XX
31TG03940	1954	0	2	0	XX, 6C
31TG04540	1953	0	1	0	XX
31TG53393	1970	0	1	0	6C
31WE70001	1993	0	10	0	1A, XX
31WH93001	1993	0	0	11	6B
31WH93002	1993	0	0	3	5Z
31WH93003	1993	0	0	2	5Z

31WH93004	1993	0	0	3	5Z
31WH93005	1993	0	0	2	5Z
31WH93006	1993	0	0	3	5Z
31WH93007	1993	0	0	14	5Z
31WH93008	1955	0	0	1	6B
31WQ55001	1956	0	31	0	6B
31WQ56001	1993	0	353	0	6B
320L93001	1993	2	0	0	6B
320L93003	1993	1	0	0	6C
320L93004	1993	3	0	0	6C, 6B
320L93005	1993	1	0	0	6C
320L93006	1993	4	0	0	6B, 6C, 6D
320L93008	1993	5	0	0	6B, 6C
320V93003	1993	0	0	54	6C, XX
323Q93011	1993	11	0	0	6D, 6E, 4V, 6C, 6F, 3N
323Q93012	1993	9	0	0	4W, 4V, XX, 3M, 3O
323Q93013	1993	20	0	0	3N, 4V, 6E, 6D, 3M, XX, 4W, 6C
323Q93014	1993	13	0	0	4V, 3M, 3N, XX, 4W, 3O, 4X
323Q93015	1993	15	0	0	6D, 3M, 4V, 3N, XX, 6F, 6C
323Q93016	1993	12	0	0	4V, 3O, 3N, 3M, XX, 4W
323Q93017	1993	27	0	0	6D, 4V, 6E, 6F, 3M, 3N, XX, 6C
323Q93018	1993	7	0	0	5Z, 4V, 6H, XX, 4W
323Q93019	1993	2	0	0	3N, 3M
323Q93020	1993	16	0	0	4W, XX, 4V, 3N, 3M, 3O
327M93001	1982	1	0	0	6C
32CW82001	1984	0	0	64	6A, 6B, 6C, 5Z
32CW84005	1984	0	86	0	6C, 5Z, 6A, 6B
32CW84006	1984	0	77	0	6B, 6A, 6C, 5Z
32CW84007	1998	0	81	0	6B, 5Z, 6A, 6C
32E398008	1998	14	0	0	6D, 6G, 6E, 6H, 6F, 3M, XX
32E398009	1998	16	0	0	6H, 6F, 4X, 5Z, 6G, XX, 4W
32E398010	1999	5	0	0	6H, XX
32E399002	1999	17	0	0	6D, 6E, 3N, 6C, 4V, 3M, 6F, XX
32E399003	1999	9	0	0	3N, 3M, 4V, 4W, 3O
32E399004	1982	11	0	0	6G, 6F, 6E, 6D, 5Z
32EV82004	1995	0	6	0	6B, 6C, XX
32EV95001	1995	0	0	61	5Z
32EV95002	1995	0	0	55	5Z
32EV95003	1995	0	0	31	5Z
32EV95004	1995	0	0	39	5Z
32EV95005	1995	0	0	100	5Z
32EV95006	1995	0	0	34	5Z
32EV95007	1996	0	0	30	5Z
32EV96001	1996	0	0	46	5Z
32EV96002	1996	0	0	31	5Z, 4X
32EV96003	1996	0	0	33	5Z, 4X
32EV96004	1978	0	0	30	5Z
32G878005	1979	0	1	0	5Z
32G879008	1998	0	23	0	5Z, 5Y, 6A, 4X, 6D
32IC98001	1978	0	0	86	5Y, 5Z, 4X
32IV78003	1993	0	27	0	5Z, 6B, 6A, 5Y
32L993003	1993	2	0	0	6H, XX
32L993006	1997	3	0	0	2J, 1F, 5Z
32OC97002	1997	0	68	0	5Z, 4X
32OC97004	1997	0	75	0	5Z, 4X
32OC97005	1997	0	1	0	5Z
32OC97030	1997	0	75	0	5Z, 4X
32OC97098	1998	0	75	0	5Z, 4X
32OC98001	1993	0	0	100	5Z, 4X
32OD93011	1993	30	0	0	6A, 6B, 6D
32OD93012	1993	12	0	0	6B, 6A, 6D
32OD93013	1993	28	0	0	6A, 6B, 6D
32OD93014	1993	5	0	0	6B, 6A
32OD93015	1993	23	0	0	6B, 6A, 6D
32OD93016	1994	29	0	0	6A, 6B, 6D
32OD94001	1994	25	0	0	6B, 6A, 6D
32OD94002	1995	20	0	0	6A, 6D, 6B
32OD95001	1999	20	0	0	6A, 6B, 6D
32OD99005	1999	25	0	0	6B, 6A
32OD99006	1999	18	0	0	6B, 6A, 6D
32OD99007	1999	18	0	0	6B, 6A, 6D
32OD99008	1999	24	0	0	6D, 6B, 6A
32OD99009	1999	20	0	0	6B, 6A
32OD99010	1993	1	0	0	6A
32Q493001	1994	0	0	64	5Z, 5Y
32Q494001	1993	0	0	215	5Y, 5Z

32S293001	1993	0	0	87	6C
32UU93001	1993	6	0	0	3K, XX
32YA93001	1993	1	0	0	5Z
32YA93002	1993	1	0	0	4X
32YA93003	1993	4	0	0	5Z, 5Y, 4X
32YA93004	1993	1	0	0	4X
32YA93005	1993	1	0	0	5Z
32YA93006	1993	2	0	0	5Z, 4X
32YA93007	1993	2	0	0	4X, 5Z
32YA93008	1993	2	0	0	5Y
32YN93001	1979	1	0	0	6C
331379427	1993	0	110	0	5Y, 5Z
339993001	1993	0	0	51	5Y, 5Z
339993002	1990	0	0	2	XX
33AM90001	1990	0	0	48	5Z
33AM90002	1990	0	0	45	5Z
33AM90003	1991	0	0	75	5Z
33AM91001	1991	0	0	97	5Z, 5Y
33AM91002	1991	0	0	145	5Z, 5Y
33AM91004	1993	0	0	146	5Z, 5Y
33AM93001	1993	0	0	80	5Z, 5Y
33AM93002	1993	0	0	84	5Y, 5Z
33AM93003	1993	0	0	87	5Y, 5Z
33AM93004	1994	0	0	88	5Z, 5Y
33AM94001	1999	0	0	168	5Z, 5Y
33EN99001	1999	7	0	0	6D, 6G, XX, 6E, 6C, 3M
33EN99002	1999	17	0	0	4W, 3O, 3M, 3N, 6A, 4V, 4X, 5Z
33EU99003	1999	10	0	0	6D, 6C, 6G, 6H, XX, 6E
33EU99004	1994	3	0	0	6G, 6E, 6H
33GC94001	1994	0	0	17	5Z, 5Y
33GC94002	1994	0	0	58	5Z, 5Y
33GC94003	1994	0	0	15	5Z, 5Y
33GC94004	1994	0	0	25	5Z, 5Y
33GC94005	1994	0	0	31	5Z, 5Y
33GC94006	1994	0	0	71	5Z, 5Y
33GC94007	1995	0	0	10	5Z, 5Y
33GC95001	1999	0	0	15	5Z, 5Y
33GC99001	1999	0	0	15	5Z
33GC99002	1999	0	0	13	5Z
33GC99003	1999	0	0	16	5Z
33GC99004	1999	0	0	10	5Z
33GC99005	1999	0	0	12	5Z
33GC99006	1990	0	0	16	5Z
33NE90001	1990	0	0	15	5Z
33NE90002	1990	0	0	17	5Z
33NE90003	1991	0	0	18	5Z
33NE91001	1998	0	0	16	5Z
33RO98001	1998	3	0	0	6E, 6G
33RO98002	1999	11	0	0	6E, 6F, 6H, 3M, 6G
33S199004	1997	1	0	0	6A
33SC97006	1997	29	0	0	6C, 6B, 6A
33SC97007	1997	28	0	0	6B, 6A, 6C
33SC97008	1998	22	0	0	6B, 6C, 6A
33SC98007	1998	39	0	0	6B, 6C, 6A
33SC98008	1998	31	0	0	6C, 6D, 6A, 6B
33SC98009	1999	30	0	0	6C, 6B, 6A
33SC99001	1999	29	0	0	6B, 6A, 6C
33SC99002	1999	28	0	0	6B, 6C, 6A, XX
33SC99003	1995	28	0	0	6A, 6C, 6B
33SW95001	1993	0	0	107	5Z
33SX93001	1993	0	0	34	6C, XX
35A193001	1999	3	0	0	6H, 6G
35MT99001	1993	12	0	0	4V, 3M, 6E, 6F, XX, 6D, 3N
46BS93001	1993	1	0	0	XX
54CA93001	1993	1	0	0	6A
54CA93002	1998	2	0	0	6C, 6D
54LN98001	1999	4	0	0	4X, 4W, 3M
54LN99001	1999	10	0	0	3M, 4X, 4V, XX, 4W, 3O, 3N
54LN99002	1999	6	0	0	4X, 4W, 3O, XX, 3N
54LN99003	1999	1	0	0	XX
54LN99004	1993	1	0	0	4X
54MP93002	1999	2	0	0	6A, 5Z
54RO99001	1999	2	0	0	3M, XX
54RO99002	1999	11	0	0	4W, 3N, 3O, 4X, 4V, XX, 3M
54RO99003	1993	10	0	0	3O, 3M, 4V, 4W, 4X, 3N
54SD93002	1993	21	0	0	3K, 3P, 4V, 4W, XX, 5Z, 3O, 4X, 1F, 6A, 3L

54SD93003	1999	29	0	0	3K, 6H, 3L, 1F, 3N, 2J, XX
54WA99001	1924	1	0	0	3M
58 01500	1962	0	10	0	0A, 1F, XX, 1E, 1C, 1D
58GS00920	1998	0	58	0	5Y, 1D, 4X, 4W, 5Z, 3L, 3M, 1E, 4V, 3P, 1C, 1B
64ML98002	1999	10	0	0	6H, 6F, 6E, XX, 6G
746B99001	1999	3	0	0	6D, 6E
746B99002	1999	1	0	0	6D
74AJ99001	1993	1	0	0	6C
74B993005	1993	1	0	0	6E
74B993006	1993	11	0	0	6F, 3N, 6E, XX, 3M, 6G
74B993007	1972	9	0	0	XX, 6F, 6H, 6G
74CZ02070	1957	0	8	0	XX, 3M, 3L
74DS06220	1963	0	30	0	3N, 3M, XX
74EH63003	1963	0	1	0	XX
74EX63001	1999	0	31	0	XX, 1F
74NO99002	1913	1	0	0	6D
74SC13001	1974	0	34	0	2J, 1F, 3L, 3K, 3N, 3M, 3O
909974802	1979	0	11	0	6H, 6E, 6F, 6G, XX, 6D
909979850	1973	0	14	0	6H, 6E, XX, 6G, 6D
90AZ73006	1986	0	27	0	3K, 2J, 2H
90AZ86325	1975	0	33	0	3L, 3N, 3M, 3O
90BE75003	1978	0	88	0	5Z, 4X
90BK78001	1983	0	4	0	6A, 6C, 5Z
90CJ83002	1992	0	117	0	4V, 3M, 3N, 3L, 3O
90CT92001	1993	33	0	0	3M, 3O, XX, 3N
90CT93002	1981	27	0	0	3M, XX, 3L
90KV80422	1959	0	79	0	3K, 2H, 2J, 0B, 2G, 1C, 1D
90ML00140	1961	0	32	0	3M, 6C, 6D, 3O, 5Z, 6B, 4X, 6F, 3N, 4W, 6E, XX
90ML00410	1960	0	22	0	3L, 3M, 3O, 3N, 6F
90ML00680	1960	0	80	0	3L, 3N, 6C, 3M, 6D, 6F, 6H, 3O, 6B, XX, 4V, 4X, 4W
90ML00690	1970	0	29	0	6G, 4W, 6C, 5Z, 6B, 6E, XX, 6F, 6D, 4X
90MU02900	1969	0	26	0	6E, 4W, 6D, 4X, 4V, 6H, 6C, 5Z, XX, 3N, 3M
90MU03040	1971	0	65	0	6B, 6C, 6H, 6D, 5Z, 6F, XX
90MU03050	1971	0	183	0	6D, 6G, 6B, 6C, 5Z, 6F, 6H, 4X, XX, 6E, 6A
90MU03060	1983	0	13	0	6E, 6D, XX, 6H, 4X, 6F, 6G, 5Z
90MU83001	1984	0	4	0	XX, 6H, 3N
90MU84001	1985	0	127	0	6H, 3M, 3N, XX
90MU85001	1967	0	99	0	3O, 6G, 3M, 6H, 4V, XX, 3N
90NO67022	1972	0	5	0	1C
90P372010	1982	0	3	0	1C
90P381026	1997	0	102	0	2J, 3M, 2H, 2G, 0B, 3N, 3L
90P497001	1972	15	0	0	3M, 3L, XX
90PB04610	1980	0	263	0	6D, 6B, 5Z, 6C, 4W, 6F, 6E, 4X, 6H, 6G, 6A
90PH80020	1980	0	261	0	3M, 3N, 3L, 3K
90PH80021	1981	0	409	0	3K, 3M, 3N, 3L, 0B, 2H, 2J, 2G, 1C
90PH81024	1982	0	140	0	3M, 2J, 3K, 3L, 3O, 3N
90PH82026	1971	0	30	0	3N, 3M, 3L
90PT03070	1971	0	79	0	6D, 5Z, 6C, 4X, 6F, XX, 6E
90PT03120	1971	0	49	0	6C, 5Z, 6G, 6F, 4X, 6A, 6D, 6B, 6H, 6E
90PT03910	1984	0	9	0	4X, 5Z, XX, 6D
90PT84001	1984	0	1	0	3M
90PT84002	1984	0	200	0	XX, 3M, 3N, 6H
90PT84003	1970	0	6	0	3M, 3N, XX
90PY03630	1959	0	12	0	6H, XX, 4V, 6D, 6F, 3M, 6E, 6G
90SE00070	1961	0	7	0	1F, 2J, XX
90SE00370	1962	0	12	0	6D, 4V, 6E, 4W, 3N, 3M
90SE00380	1983	0	11	0	4V, 6D, 3N, 3M, 4W, 6E, XX
90SU82026	1962	0	123	0	3L, 0B, 2J, 2G, 3N, 3K, 2H, 3M, 3O, 1D
90TP62037	1973	0	16	0	XX
90UG04320	1974	0	92	0	6D, 6B, 4X, 5Z, 6F, 6E, 6C, 6G, 6H, XX
90UG74463	1990	0	1	0	4X
90UG90001	1977	0	1	0	3N
90VC77001	1985	0	11	0	6E, 6F, 6H, XX, 6G
90VC85001	1985	0	99	0	6H, 3M, XX, 3N, 4V, 6G, 3O
90VC85149	1985	0	2	0	3N
90VC85183	1988	0	1	0	6G
90VC88001	1989	0	2	0	XX, 3M
90VC89001	1978	0	18	0	6H, 6G, XX, 6E, 6D, 6F
90VY78001	1971	296	0	0	4V, 4W, 4X, 5Z
90VZ03790	1971	0	26	0	2J, 1F, 2H, XX
90ZB03730	1993	0	26	0	1F, 2J, 2H, 3K, XX
999993002	1993	9	0	0	6B, 3L, 6C
999993003	1993	2	0	0	3L
999993004	1993	2	0	0	6C
999993005	1993	1	0	0	0A
999993008	1993	3	0	0	3M, XX

999993010	1993	1	0	0	6B
999993011	1993	4	0	0	3N
999993013	1993	3	0	0	3N
999993014	1993	4	0	0	3M, 6H, 3N
999993015	1993	1	0	0	6A
999993016	1993	2	0	0	6E
999993017	1993	1	0	0	XX
999993018	1993	1	0	0	6C
999993019	1993	1	0	0	3N
999993021	1993	1	0	0	3L
999993023	1993	1	0	0	3L
999993027	1993	2	0	0	3N
999993028	1993	2	0	0	3L, 3M
999993030	1993	2	0	0	3L
999993031	1993	2	0	0	1F, XX
999993033	1993	4	0	0	3L, 3K
999993035	1993	30	0	0	4W, 6E, 4X, 5Z
999993036	1993	1	0	0	3K
999993037	1993	1	0	0	6D
999993038	1993	1	0	0	4W
999993040	1993	1	0	0	6B
999993042	1993	2	0	0	3L
999993043	1998	4	0	0	3L, 6B
AGHA98009	1998	9	0	0	3L, 2J, XX, 3K, 1F
AGHA98010	1998	8	0	0	1F, 3K, XX
AGHA98011	1998	6	0	0	3K, 3L, XX
AGHA98012	1998	6	0	0	3K, 2J, 3L, XX
AGHA98013	1999	4	0	0	3L, 3K
AGHA99005	1999	7	0	0	1F, 3K, 3L, XX
AGHA99006	1999	7	0	0	2J, 3K, 1F, 3L, XX
AGHA99007	1999	9	0	0	3K, 1F, XX, 3L, 2J
AGHA99008	1999	7	0	0	3L, 3K, 2J, XX, 1F
AGHA99009	1999	7	0	0	1F, XX, 3L, 3K
AGHA99010	1999	5	0	0	3L, 3K, 3M
AGHA99011	1999	11	0	0	2J, 1F, XX, 3K, 3L
AGHA99012	1999	1	0	0	XX
AGHA99013	1999	6	0	0	3L, 3K, 1F, XX, 2J
AGHA99014	1999	9	0	0	3K, XX, 3L, 1F
AGHA99015	1999	6	0	0	3K, XX, 1F
AGHA99016	1999	6	0	0	3K, 1F, 2J
AGHA99017	1999	12	0	0	1F, 3L, 3K, XX, 2J
AGHA99018	1999	7	0	0	3L, 3K, 1F, XX
AGHA99019	1999	6	0	0	3K, 3L, 2J, XX
AGHA99020	1999	6	0	0	XX, 3L, 3K, 2J
BHAJ99001	1993	5	0	0	6B
PAFN93001	1993	7	0	0	6G, 6H, 6B, 6F
PAFN93002	1993	10	0	0	6G, 4V, 4W, 6H
PAFN93003	1993	9	0	0	5Z, 6E, 6C
PARC93003	1993	1	0	0	6G
PARC93004	1993	1	0	0	6A
PARC93005	1995	3	0	0	6D, 6C
SIKE95001	1996	2	0	0	XX
SIKE96001	1996	9	0	0	3L, 3K, 3M
SIKE96002	1996	10	0	0	3M, 3N, XX
SIKE96003	1996	7	0	0	3L, XX, 3M
SIKE96004	1996	5	0	0	XX, 3M
SIKE96005	1996	3	0	0	3M, XX
SIKE96006	1996	3	0	0	3M, XX
SIKE96007	1996	10	0	0	3M, XX, 3L, 3N
SIKE96008	1997	11	0	0	3M, 3L, XX
SIKE97001	1997	10	0	0	3M, XX
SIKE97002	1997	20	0	0	4V, 3N, 3M, 3O, XX
SIKE97003	1997	33	0	0	4W, 4X, 3M, 3N, 4V, 3O, XX, 5Z
SIKE97004	1997	36	0	0	4W, XX, 3O, 3M, 3N, 4X, 4V, 5Z
SIKE97005	1997	15	0	0	4V, 3N, 3O, XX, 3M, 4W
SIKE97006	1997	26	0	0	3N, XX, 3O, 4V, 3M, 4W
SIKE97007	1997	6	0	0	3M, XX
SIKE97008	1997	6	0	0	3M, XX, 3L
SIKE97009	1998	6	0	0	3M, XX, 3L
SIKE98001	1998	8	0	0	3M, XX
SIKE98002	1998	4	0	0	3M, XX
SIKE98003	1998	10	0	0	3N, XX, 3M
SIKE98004	1998	4	0	0	XX, 3M
SIKE98005	1998	8	0	0	3M, XX, 3L
SIKE98006	1999	14	0	0	2J, 1F, 3K, XX, 3L
SISF99001	1999	10	0	0	5Y, 4X, 5Z

SISF99002	1999	8	0	0	5Y,4X,4W,5Z
SISF99003	1999	8	0	0	5Y,4X,5Z
SISF99004	1999	27	0	0	XX,3K,1F,2J,3L
SISF99005	1999	1	0	0	5Z
SISF99006	1999	22	0	0	1F,2J,3K,XX,3L
SISF99007	1999	9	0	0	4X,5Y,5Z
SISF99008	1999	13	0	0	3K,2J,1F,XX,3L

TABLE 4b HISTORICAL DATA RECEIVED BUT NOT ARCHIVED.

MEDS just received the following historical data from NAFC for the NAFO area:

Sentinel fisheries 1995-1999.

1995-1998 data list as vessel id 41. Each fisherman listed as a separate cruise number. Multiple years data for each.

1999, fishermen assigned individual ship ids, AA-AZ, 1 cruise id per year for each.

Dr. Brian Nakashima, Caplin beach stations, Ship id 51705.

Dr. Don Diebel, Ocean Sciences Center, MUN.1988-1997 ctd data using Seabird model SBE-19 and SBE-25 instruments, equipped with various sensors. Listed as vessel id 93, cruises 001-012.

Drifting Buoy (Dribu) Data

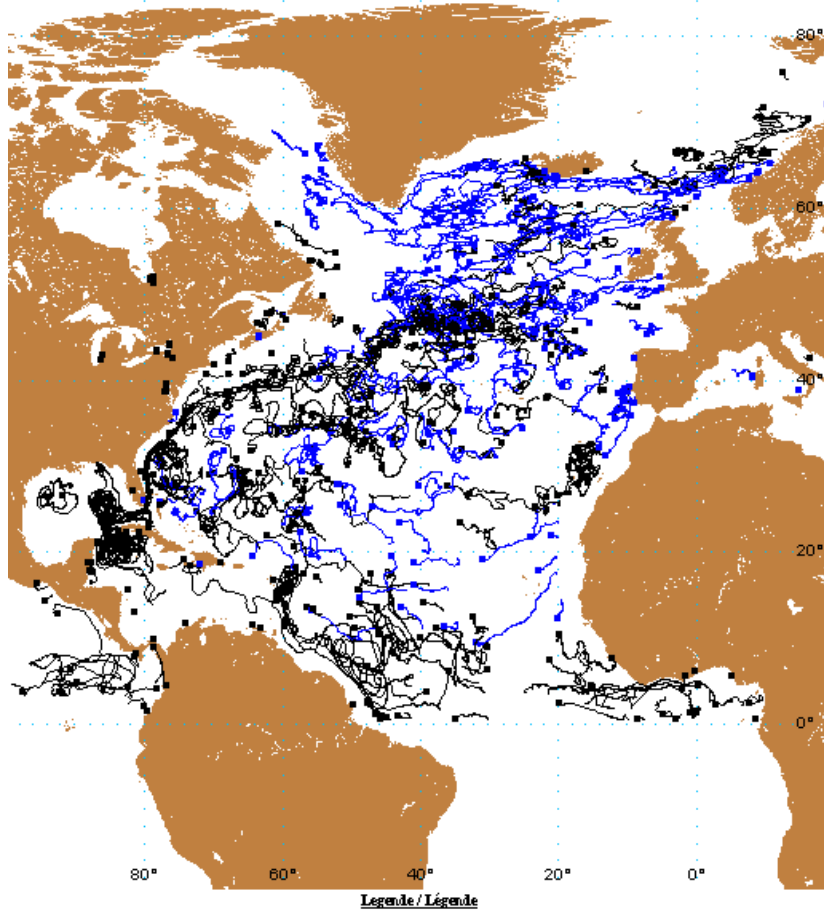
Drifting buoy (or DRIBU) data are received at MEDS over the GTS. Measures taken to assure its quality are much the same as those for the ocean subsurface data described previously. DRIBUs report via satellite, at rates of up to every 15 minutes. These messages are for format errors, and reformatted for quality control procedures and subsequent archival. 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 DRIBU records for the world's oceans, from 1978 to 2001, and growing at a rate of more than one million messages per year. The message is comprised of the buoy position and some of the following parameters: surface and subsurface water temperature, air pressure and temperature, wind speed and direction.

Table 5 lists data collected by Drifting Buoys in the NAFO Area in 2000. Two maps of DRIBU tracks for the entire North Atlantic, processed and archived by MEDS in 2000, are shown in the figures.

Table 5 figure 1: DRIFTING BUOY DATA ARCHIVED IN THE NAFO AREA, JANUARY TO JUNE 2000

Drifting buoy tracks
January to June 2000



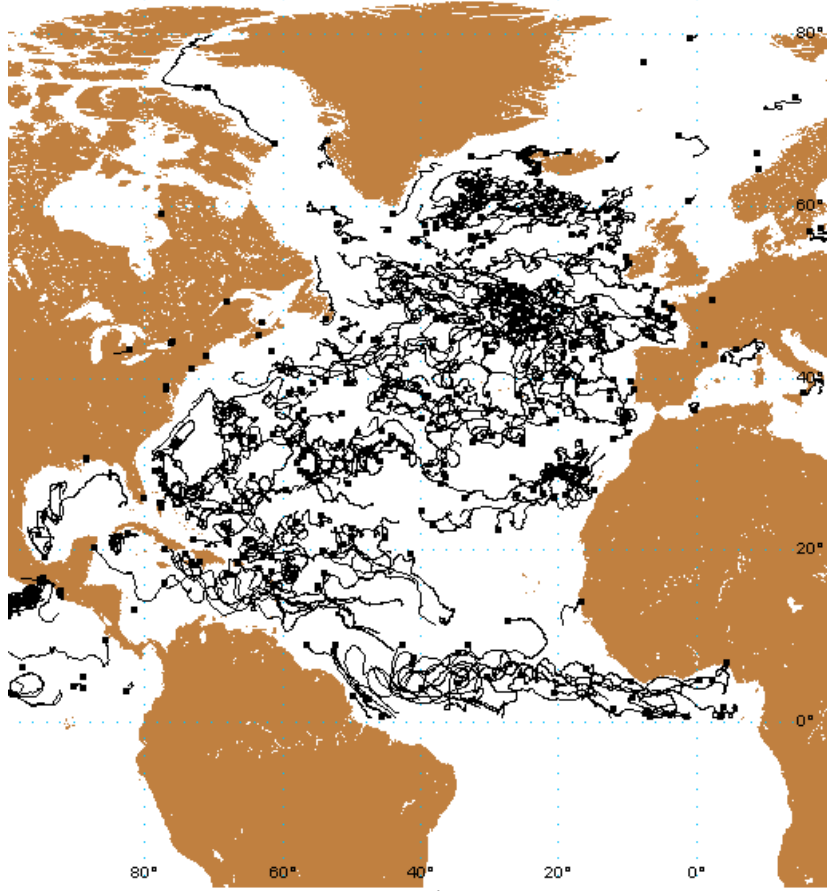
Legende / Légende



MEBS / SBMM 11/05/2001

Table 5 figure 2: DRIFTING BUOY DATA ARCHIVED IN THE NAFO AREA, JULY TO DECEMBER 1999

Drifting buoy tracks
July to December 2000



Legende / Légende



MEES / SDMM 15/05/2001

Table 5: Data Collected by Drifting Buoys in the NAFO Area in 2000
Number of Buoys = 141 and Buoy Days = 8460

BUOY	DATE RANGE	DAYS	SST	AP	AT	WS	WD	TC	NAFO Subarea
13504	Oct-23 - Oct-25	2	X	X	-	-	-	-	6A
13505	Oct-23 - Oct-25	2	X	X	-	-	-	-	6A
13506	Oct-23 - Oct-25	2	X	X	-	-	-	-	6A
13510	May-05 - May-06	2	X	X	-	-	-	-	6B
13512	Apr-26 - May-01	6	X	X	-	-	-	-	6B
17300	Jan-01 - Jul-11	193	X	X	-	-	-	-	6D, 5ZE, 4X, 4W, 6E, 4VS, 3PS, 3O
21607	May-12 - May-14	3	-	X	-	-	-	-	6B
22522	May-25 - May-25	1	X	X	-	-	-	-	6B
23505	Oct-23 - Oct-23	1	X	X	-	-	-	-	6A
23506	Oct-23 - Oct-25	2	X	X	-	-	-	-	6A
23507	Oct-23 - Oct-25	2	X	X	-	-	-	-	6A
23925	Dec 08 - Dec 11	3	-	X	-	-	-	-	4X
23936	May-01 - May-03	2	-	-	-	-	-	-	6B
23950	Dec 15 - Dec 18	3	-	-	-	-	-	-	4X
25548	Jul-28 - Jul-28	1	-	X	-	-	-	-	6B
31936	Apr-22 - Nov-25	217	X	X	-	-	-	-	6C, 6E, 4VS, 6F
41521	Aug-16 - Aug-31	16	X	X	-	X	X	-	6D, 6E
41552	Jan-01 - Apr-28	119	X	X	-	-	-	-	4VS, 3N, 3M
41570	May-03 - May-12	10	X	X	-	-	-	-	6H
41573	Feb-09 - Jun-17	129	X	X	-	-	-	-	6G, 6F

41575	Jan-03	-	Jun-21	171	X	X	-	-	-	-	4X, 6E, 4W, 4VS, 6F, 6G, 6H, 3N
41576	Jan-01	-	Mar-01	61	X	X	-	-	-	-	6F, 6G
41577	Jan-01	-	May-01	122	X	X	-	-	-	-	6D, 6E, 4X, 4W, 6F, 6G, 6H
41580	May-03	-	Oct-08	159	X	X	-	-	-	-	6C, 6B, 6D, 6E, 4W, 4X, 5ZE, 4VS, 3O, 3N, 6G, 6H, 3M
41627	Oct-23	-	Oct-25	2	X	X	-	-	-	-	6A
41628	Oct-23	-	Oct-25	2	X	X	-	-	-	-	6A
41643	Oct-23	-	Oct-25	2	X	X	-	-	-	-	6A
41645	Oct-23	-	Oct-25	2	X	X	-	-	-	-	6A
41852	Mar-17	-	Sep-04	171	X	X	-	-	-	-	6E, 6C, 6D
41853	Jan-01	-	Jan-22	22	X	X	X	-	-	-	6D
41917	Mar-24	-	Mar-27	3	X	X	-	-	-	-	3M
41920	Apr-22	-	May-04	12	X	X	-	-	-	-	6C, 6B
41930	Jan-13	-	Mar-28	76	X	X	-	-	-	-	6C, 6B, 6D
43516	May-26	-	Jun-11	16	X	X	-	-	-	-	6C
43517	Jul-11	-	Oct-06	87	X	X	-	-	-	-	3O, 3N, 3M, 3K
43518	Aug-20	-	Dec 01	104	X	X	-	-	-	-	6C, 6B, 6D
43804	Jan-01	-	Sep-27	271	X	X	-	-	-	-	6B, 6C, 6D, 5ZE, 4X, 4W, 6E, 4VS, 3O, 3N, 3M, 6H
43902	Jun-30	-	Nov-26	149	X	X	-	-	-	-	6C, 6B, 6D, 6E, 4W, 6F
43904	Mar-14	-	Oct-29	229	X	X	-	-	-	-	6C, 6B, 6D, 6E, 4X, 4W, 4VS, 6F, 3O, 3N, 3M, 6H
43907	Jun-04	-	Jun-05	2	X	X	-	-	-	-	6C
44470	Sep-26	-	Dec 31	97	X	X	-	-	-	-	1B, 1A
44471	Sep-26	-	Dec 31	97	X	X	-	-	-	-	1B
44501	Apr-21	-	Apr-26	6	X	X	-	-	-	-	3M
44502	Apr-21	-	Nov-18	211	X	X	-	-	-	-	3N, 3L
44504	Jan-02	-	Oct-03	276	X	X	-	-	-	-	4VS, 3O, 3N, 3M
44505	Apr-21	-	Dec 30	253	X	X	-	-	-	-	3L, 3O, 3N
44507	Jan-05	-	Jan-14	9	X	X	-	-	-	-	3K
44512	Aug-27	-	Dec 31	126	X	X	-	-	-	-	2J, 3K, 3L, 3O, 3PS
44513	Jan-01	-	Feb-20	51	X	X	-	-	-	-	3M
44548	Dec 06	-	Dec 31	26	X	X	X	-	-	-	3K, 3L, 3M
44611	Mar-07	-	May-19	74	X	X	X	-	-	-	3M, 3N
44612	Sep-10	-	Nov-30	81	X	X	X	-	-	-	6H, 3M
44615	Mar-07	-	May-13	68	X	X	X	-	-	-	3N, 6H
44617	Mar-07	-	May-25	80	X	X	X	-	-	-	3M, 3K
44620	Mar-15	-	Apr-06	23	X	X	X	-	-	-	3M, 6H
44622	Mar-07	-	Jul-06	122	X	X	X	-	-	-	3M, 3K, 2J, 1F
44628	Jan-01	-	May-24	145	X	X	X	-	-	-	3M, 6H, 3N, 6G
44651	Feb-16	-	Mar-04	17	-	-	-	-	-	-	4T, 4VN
44652	Feb-21	-	Apr-07	46	-	-	-	-	-	-	4T, 2G, 2H, 2J
44653	Feb-11	-	Apr-08	58	-	-	-	-	-	-	2G
44654	Feb-02	-	Feb-10	8	-	-	-	-	-	-	4T, 3K
44655	Feb-11	-	Feb-18	8	-	-	-	-	-	-	2G, 2H
44657	Feb-16	-	Mar-10	23	X	X	-	X	X	-	4T, 4VN
44658	Feb-16	-	Dec 22	310	-	-	-	-	-	-	4T
44660	Feb-16	-	Feb-23	8	-	-	-	-	-	-	4T
44682	Feb-09	-	Mar-23	43	-	-	-	-	-	-	4X, 4T
44683	Feb-22	-	Mar-23	30	-	-	-	-	-	-	4T
44684	Sep-11	-	Sep-12	2	-	-	-	-	-	-	4T
44685	Sep-11	-	Sep-12	2	-	-	-	-	-	-	4T
44686	Sep-11	-	Sep-12	2	-	-	-	-	-	-	4T
44687	Sep-11	-	Sep-12	2	-	-	-	-	-	-	4T
44688	Sep-11	-	Sep-12	2	-	-	-	-	-	-	4T
44690	Feb-26	-	Mar-09	12	-	-	-	-	-	-	4T, 4S
44694	Mar-06	-	Apr-26	52	-	-	-	-	-	-	2J
44695	Mar-06	-	Mar-18	12	-	-	-	-	-	-	2J
44697	Mar-06	-	Mar-18	13	-	-	-	-	-	-	2J
44698	Mar-06	-	Mar-18	12	-	-	-	-	-	-	2J
44725	Mar-07	-	Dec 31	300	X	X	X	X	X	-	3N, 3O, 4VS, 3M, 3K
44726	Mar-15	-	Mar-26	11	X	X	X	X	X	-	6G
44727	Mar-15	-	Mar-15	1	X	X	-	X	X	-	3N
44729	Mar-16	-	Jul-26	133	X	X	X	-	-	-	3M, 3K
44730	Apr-03	-	Apr-24	22	X	X	X	-	-	-	3K, 1F
44743	Apr-14	-	Jun-02	50	X	X	X	-	-	-	3M, 3K
44753	Apr-24	-	Apr-25	1	-	-	-	-	-	-	6B
44754	Apr-25	-	Aug-13	111	-	-	-	-	-	-	6B, 3PS
44756	May-25	-	Nov-23	182	-	-	-	-	-	-	4X, 4W
44761	Jun-09	-	Oct-17	131	X	X	X	-	-	-	3K, 3L, 3M, 2J, 1F
44762	Aug-08	-	Aug-17	10	X	X	X	-	-	-	3M
44763	Aug-07	-	Aug-26	20	-	X	X	-	-	-	3M
44764	Aug-24	-	Aug-28	5	X	X	X	-	-	-	3M
44765	Aug-27	-	Dec 31	127	-	X	X	-	-	-	6F, 6G
44767	Aug-09	-	Oct-28	81	X	X	X	-	-	-	1F, 2J
44768	Aug-09	-	Sep-24	47	-	X	X	-	-	-	1F
44769	Aug-09	-	Sep-05	28	X	X	X	-	-	-	1F
44770	Aug-09	-	Oct-09	62	X	X	X	-	-	-	2J, 1F
44772	Aug-02	-	Sep-06	36	X	X	X	X	X	-	3L, 3M

44773	Feb-21 - Mar-15	24	X	X	X	X	X	-	3N, 3M, 3K
44774	Oct-12 - Nov-16	36	X	X	X	-	-	-	3K
44775	Oct-23 - Dec 31	70	X	X	X	-	-	-	4W, 4VS
44776	Oct-25 - Dec 31	68	X	X	X	-	-	-	4VS, 3PS, 3O, 3N, 3M
44777	Jan-01 - Jan-02	2	X	X	X	X	X	-	1F
44778	Oct-26 - Dec 31	67	-	X	X	-	-	-	3O, 3N, 4VS, 6G, 6H
44831	May-03 - Jul-18	77	X	X	-	-	-	-	3N, 6H
44832	May-03 - Jun-18	46	X	X	-	-	-	-	3N, 3M
44833	May-03 - May-11	9	X	X	-	-	-	-	4VS
44838	Jan-01 - Mar-03	63	X	X	-	-	-	-	4VS, 3N, 3M
44840	Jan-01 - Feb-10	41	X	X	-	-	-	-	3N, 3M
44913	Jan-01 - Jan-04	4	X	X	-	-	-	-	3M
44916	Sep-09 - Dec 08	90	X	X	-	-	-	-	6H, 3M
44917	Jan-01 - Jan-12	12	X	X	-	-	-	-	6H
44920	Jan-01 - Apr-07	98	X	X	-	-	-	-	4VS, 6G, 3N, 6H, 3M
44922	Feb-01 - Feb-01	1	X	-	-	-	-	-	5ZE
44931	Feb-18 - Feb-22	4	X	X	-	-	-	-	6G
44932	Jan-01 - Mar-14	73	X	X	-	-	-	-	4W, 4VS, 3O, 3N, 3M
44936	Jan-01 - Mar-03	63	X	X	-	-	-	-	6B, 6C, 6D, 4X, 4W
44937	Jan-01 - Apr-30	121	X	X	-	-	-	-	4VS, 3O, 3N, 3M
44939	Jan-01 - Jul-27	209	X	X	-	-	-	-	4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6D, 4W, 4VS, 3N, 3M
44945	Jan-01 - Jun-04	156	X	X	-	-	-	-	6B, 6D, 6E, 4X, 4W, 4VS, 6F, 6G, 6H, 3N
46632	Feb-07 - Feb-08	1	-	X	X	-	-	-	4X
46681	Apr-18 - May-11	23	X	X	-	-	-	-	6C
47553	Jan-01 - Jan-29	29	-	X	-	-	-	-	1A, 0A, 1B, 1C
47555	Nov-08 - Dec 30	53	-	X	-	-	-	-	0A, 1A, 1B
48534	Aug-31 - Aug-31	1	-	X	-	-	-	-	6B
48535	Aug-18 - Aug-23	5	-	X	-	-	-	-	6B
48536	Jul-28 - Jul-28	1	-	X	-	-	-	-	6B
48555	Nov-03 - Nov-08	5	-	X	-	-	-	-	0A
48581	Nov-25 - Dec 30	36	-	X	X	-	-	-	0A, 1A
51502	Jun-26 - Jun-27	1	-	X	-	-	-	-	6B
51503	Jun-26 - Jun-26	1	-	X	-	-	-	-	6B
51566	Apr-07 - Oct-17	193	X	X	-	-	-	-	6B
51611	Dec 20 - Dec 20	1	X	-	-	-	-	-	5ZW
56542	Sep-29 - Oct-03	4	X	X	X	-	-	-	4X
62673	Jan-26 - Jan-28	2	X	X	-	X	X	-	4X
64516	Jan-01 - Jan-31	31	X	X	X	-	-	-	1C, 1B
64517	Jan-01 - Jan-08	8	X	X	X	-	-	-	1F
64629	Apr-14 - Apr-17	3	X	X	-	-	-	-	5ZW
64698	Jan-01 - May-03	124	X	X	X	-	-	-	1F, 1E
64699	Jan-01 - Dec 31	366	X	X	X	-	-	-	1E, 1D, 1F, 2G, 2H
64701	Dec 20 - Dec 22	3	X	X	-	-	-	-	1F
65598	Jun-02 - Aug-28	88	X	X	X	-	-	-	1F, 1E, 1D, 1C, 1B
65663	Dec 29 - Dec 31	3	-	X	X	-	-	-	1F

Current Meter Data

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

Table 6: Current Meter data archived at BIO for 2000

Project	Instrument	Position	Depth	Start_Date	End_Date
2000/010	2 Moored RDI				
	Workhorse #0499	46.2072N -63.7590W	21.5m	Jan 26/00 17:26	Apr 22/00 14:46
	Workhorse #0512	46.2044N -63.7560W	21.5m	Jan 26/00 16:47	Apr 22/00 14:08
2000/051	1 Current Meter S4 04430830	46.7627N -48.7762W	75m	Jun 21/00 18:27	Approximately Aug 20/00 Mims floats came to surface and package recovered by Supply Vessel

2000/056	1 RCM8 3299	56.6742N -52.4868W	111m	May 30/00 17:00	Aug 26/00 04:00
2000/066	1 Moored RDI Workhorse # 0493	44.2920N -63.2290W	81m	Sept 30/00 20:13	Nov 22/00 14:44
2000/070	8RCM8's 4349	42.8497N -61.6301W	65m	Jun 13/00 13:59	Nov 21/00 17:45
	5578	42.8497N -61.6301W	80m	Jun 13/00 13:59	Nov 21/00 17:45
	5567	42.8497N -61.6301W	135m	Jun 13/00 13:59	Nov 21/00 17:45
	5002	42.8497N -61.6301W	210m	Jun 13/00 13:59	Nov 21/00 17:45
	7131	42.8497N -61.6301W	285m	Jun 13/00 13:59	Nov 21/00 17:45
	1607	42.8497N -61.6301W	560m	Jun 13/00 13:59	Nov 21/00 17:45
	4603	42.8497N -61.6301W	810m	Jun 13/00 13:59	Nov 21/00 17:45
	5574	42.8497N -61.6301W	1087m	Jun 13/00 13:59	Nov 21/00 17:45
2000/071	7RCM8's				
	4342	44.8753N -55.8305W	48m	Apr 28/00 19:00	Nov 19/00 16:00
	2664	44.8753N -55.8305W	148m	Apr 28/00 19:00	Nov 19/00 16:00
	3196	44.8753N -55.8305W	398m	Apr 28/00 19:00	Nov 19/00 16:00
	5359	44.8396N -55.8378W	53m	Apr 29/00 19:00	Nov 19/00 19:00
	4195	44.8396N -55.8378W	153m	Apr 29/00 19:00	Nov 19/00 19:00
	6411	44.8396N -55.8378W	403m	Apr 29/00 19:00	Nov 19/00 19:00
	5573	44.8396N -55.8378W	683m	Apr 29/00 19:00	Nov 19/00 19:00

Wave Data

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.

Table 7 lists wave measurement data in the NAFO area for 2000. Historical wave data are available on a CD-Rom.

WAVE STATIONS IN THE NAFO AREA FOR 2000

Wave Buoys in the NAFO

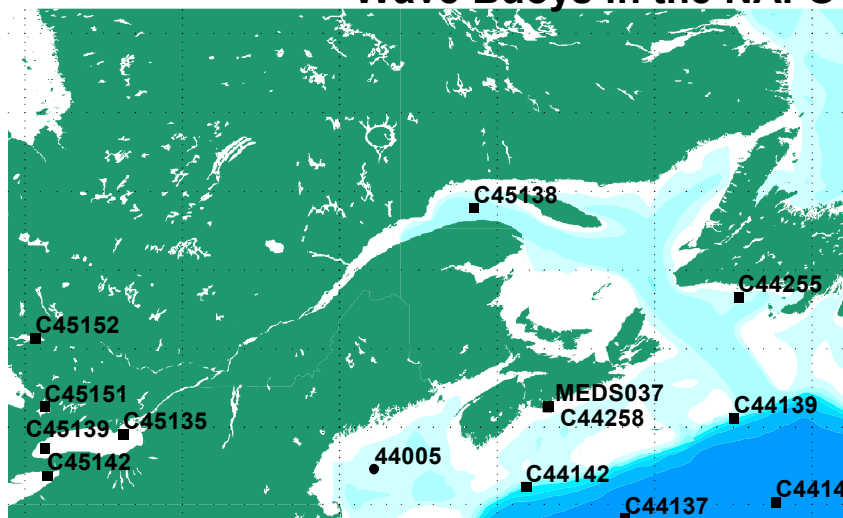


Table 7: Wave spectra in the NAFO area for 2000 Total Spectra = 114292

STATION	STATION NAME	LATITUDE	LONGITUDE	INST TYPE	WATER DEPTH	NUMBER OF GOOD SPECTRA (M)	NAFO SUBAREA
44004	Hotel	38.5000	70.7000	US	3231.0	2246	6B
44005	Gulf of Maine	42.9000	68.9000	US	29.0	7962	5Y
44008	Nantucket	40.5000	69.4000	US	55.0	8168	5ZE
44009	Delaware Bay	38.5000	74.7000	US	28.0	8086	6B
44011	Georges Bank	41.1000	66.6000	US	88.0	7351	5ZE
44025	Long Island	40.3000	73.2000	US	40.0	6793	6A
C44137	East Scotia Slope	41.6480	60.9400	AE	4500.0	1202	4W
C44138	SW Grand Banks	44.2580	53.6230	AE	1470.0	3212	3O
C44139	Banquereau	44.2000	57.5000	AE	1500.0	5241	4VS
C44140	Tail of the Bank	42.8520	51.5670	AE	1500.0	3442	3O
C44141	Laurentian Fan	42.0670	56.1520	AE	4500.0	7370	4VS
C44142	La Have Bank	42.4450	64.1000	AE	1500.0	5116	4X
C44251	Nickerson Bank	46.4400	53.3900	AE	69.0	1658	3L
C44255	NE Burgeo Bank	47.2820	57.3520	AE	185.0	3350	3Ps
C44258	Halifax Harbour	44.5000	63.4000	AE	58.0	7134	4W
C45135	Prince Edward Pt.	43.7900	76.8730	AE	68.0	6027	5Y
C45138	Mont Louis	49.5550	65.7450	AE	335.0	4332	4S
C45139	West Lake Ontario	43.4270	79.3820	AE	126.0	2916	5Y
C45142	Point Colborne	42.7370	79.2900	AE	27.0	2697	5Y
C45151	Lake Simcoe	44.5000	79.3670	AE	22.0	33	
C45152	Lake Nipissing	46.2500	79.6670	AE	12.0	517	
MEDS037	Osborne Head	44.4903	63.4042	WR	57.0	9225	4W
WEL412	Hebron M-04	46.5660	48.5360	WR	96.0	7556	3L
WEL413	Riverhead N-18	46.2950	48.8030	WR	68.0	1542	3L
WEL414	White Rose H-20	46.8220	48.0230	WR	125.0	812	3L
WEL415	Cape Race N-68	46.6240	48.4080	WR	90.0	304	3L

Tide and Water level Data

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.

Table 8 lists tide and water level data in the NAFO area for 2000. These data are quality controlled using MEDS software. A complete inventory of tide and water level data holdings is available on our website: www.meds-sdmm.dfo-mpo.gc.ca

TIDE AND WATER LEVEL STATIONS IN THE NAFO AREA FOR 2000

Tide and Water Levels Stations in th

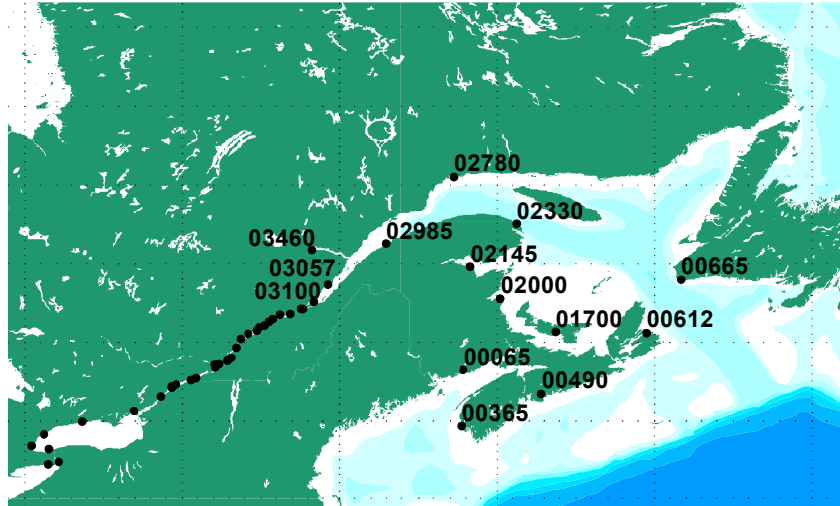


Table 8: Tide and Water level data in the NAFO area for 2000
Total Stations = 47

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	15-MINUTE HEIGHTS # OF DAYS	HOURLY HEIGHTS # OF DAYS
00065	SAINT JOHN	45.27	66.06	314	283
00365	YARMOUTH	43.84	66.12	344	366
00490	HALIFAX	44.66	63.59	366	366
00612	NORTH SYDNEY	46.22	60.25	365	365
00665	PORT AUX BASQUES	47.57	59.14	366	366
00835	ARGENTIA	47.30	53.98	366	366
00905	ST. JOHN'S	47.56	52.71	366	364
01700	CHARLOTTETOWN	46.23	63.12	366	366
02000	LOWER ESCUMINAC	47.08	64.89	359	359
02145	BELLE DUNE	47.90	65.85	331	328
02330	RIVIERE-AU-RENARD	48.98	64.37	104	234
02780	SEPT-ILES	50.18	66.37	298	298
02985	RIMOUSKI	48.48	68.52	305	305
03057	SAINT-JOSEPH-DE-LA-RIVE	47.45	70.37	305	305
03100	SAINT-FRANCOIS	47.00	70.81	305	305
03246	ST. CHARLES RIVER BASIN	46.82	71.20	303	303
03250	QUEBEC (LAUZON)	46.83	71.17	305	305
03280	NEUVILLE	46.70	71.57	305	305
03300	PORTNEUF	46.68	71.88	305	305
03335	CAP A LA ROCHE	46.56	72.11	305	305
03345	BATISCAN	46.50	72.25	259	258
03353	BECANCOUR	46.40	72.38	305	305
03360	TROIS-RIVIERES	46.34	72.54	305	305
03365	PORT-SAINT-FRANCOIS	46.27	72.62	202	202
03460	PORT-ALFRED	48.33	70.87	3	1
12865	PORT COLBORNE	42.87	79.25	366	366
12954	PEACE BRIDGE BELOW	42.92	78.90	366	366
13030	PORT WELLER	43.24	79.22	366	366
13150	BURLINGTON	43.34	79.77	361	361
13320	TORONTO	43.64	79.38	366	366
13590	COBOURG	43.96	78.17	366	366
13988	KINGSTON (PORTSMOUTH)	44.22	76.52	366	366
14400	BROCKVILLE	44.59	75.68	366	366
14600	IROQUOIS ABOVE/AMONT	44.82	75.32	366	366

14602	IROQUOIS BELOW/AVAL	44.84	75.31	366	366
14660	MORRISBURG	44.90	75.18	366	366
14870	CORNWALL	45.02	74.71	366	366
14940	SUMMERSTOWN	45.06	74.55	366	366
15220	POINTE-DES-CASCADES	45.34	73.95	213	7
15330	POINTE-CLAIRE	45.43	73.82	91	211
15520	MONTREAL JETTY NO 1	45.50	73.55	362	362
15540	MONTREAL FRONTENAC ST.	45.53	73.54	305	305
15660	VARENNES	45.58	73.44	302	302
15780	CONTRECOEUR	45.83	73.28	93	93
15930	SOREL	46.05	73.12	93	93
15975	LAKE/LAC SAINT-PIERRE	46.19	72.90	93	93
16005	SAINTE-ANNE-DE-BELLEVUE	45.41	73.96		80