

# Marine Environmental Data Service Report for 2004

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### Abstract

MEDS, as the Regional Environmental Data Center for NAFO, is required to provide an annual inventory of environmental data collected in the NAFO area to the NAFO subcommittee for the environment (STACFEN). Inventories and maps of physical oceanographic observations such as ocean profiles, surface thermosalinographs, drifting buoys, currents, waves, tides and water level measurements for the calendar year 2004 are included. This report will also provide an update on developments to the ARGO program and the Atlantic Zone Monitoring Program web site.

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

### Introduction

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

Provision of a meaningful report to the Council for its meeting in June 2005 required the submission to MEDS of a completed oceanographic inventory form for data collected in 2004, and oceanographic data pertinent to the NAFO area, for all stations occupied in the year prior to 2004. The data of highest priority are those from the standard sections and stations, as described in NAFO SCR DOC., No. 1, Serial N 1432, 9p.

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

### Recent Activities

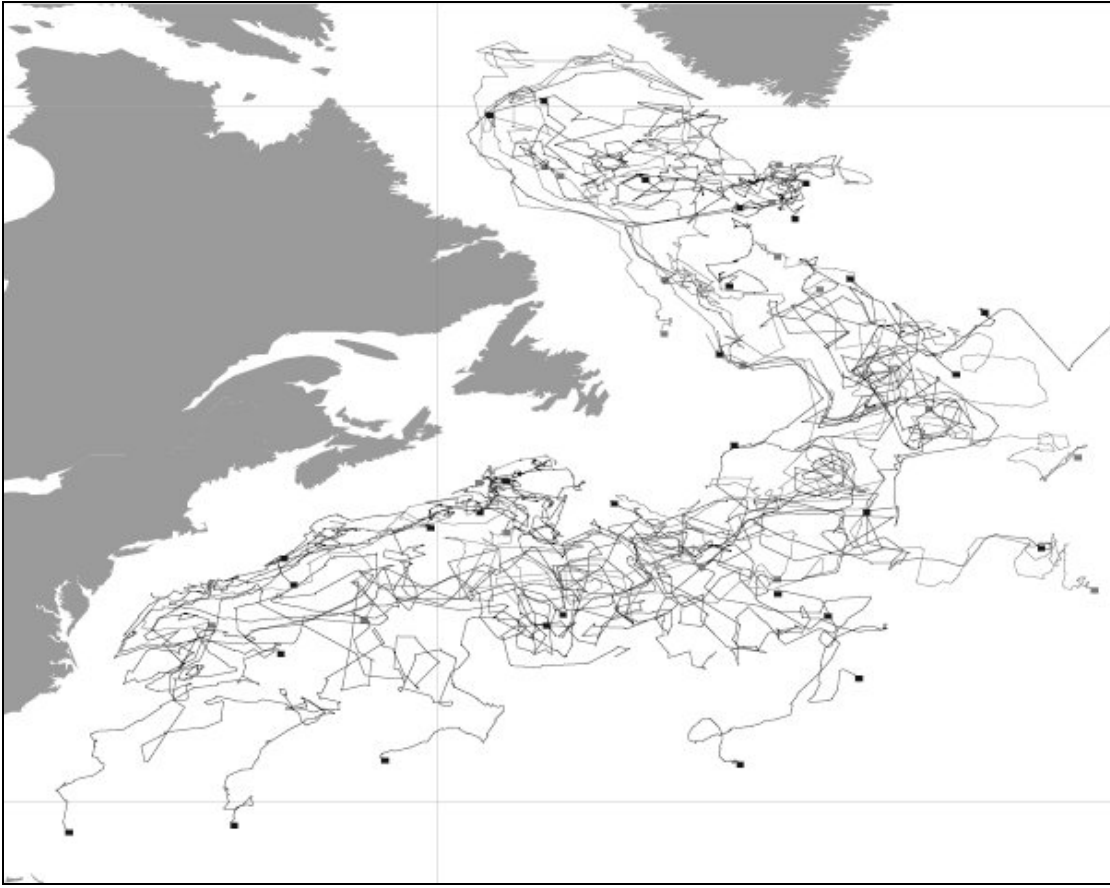
#### **The Argo data system**

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

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

During 2004, Canada deployed 29 floats including 16 in the North Atlantic.

**Figure 1: Canadian Argo profiling floats May 2005**



**Atlantic Zone Monitoring Programme (AZMP)**

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

Physical and chemical data from 1999 to the present are currently available on the web site. Climate indices have also been added to show long term trends of physical variables. Water level data for 9 gauges ranging from 1895 to present are also available. Biological data are stored in a nationally distributed database (BIOCHEM) that is presently being developed at BIO/MEDS. Graphical representations of biological data (phytoplankton) are currently being displayed on the web site.

Recent additions to the web site during 2004 include Phytoplankton data, Wind related climate indices, Labrador Current Transport index and new links within the remote sensing section.

## **Data Summaries for 2004**

### **Subsurface profile data**

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

The following inventories and corresponding maps summarize the ocean subsurface and surface data processing activities in 2004 for the NAFO area:

- **Table 1, Fig 3. Real-time temperature-salinity profile data collected and processed in 2004**  
**65666 profiles**
- **Table 2, Fig 4. Surface Thermosalinograph data collected and processed in 2004**  
**1191 stations**
- **Table 3, Fig 5. Delayed-mode profile data collected and processed in 2004**  
**7569 profiles**
- **Table 4, Fig 6. Profile data collected prior to 2004 and processed during the past year**  
**9399 profiles**

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

### **Drifting Buoy Data**

The following inventory and map summarize MEDS drifting buoy data collected and processed in 2004 for the NAFO area:

- **Table 5, Fig 7. Drifting Buoys in the NAFO Area in 2004. TOTAL = 84106 messages**

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

MEDS, as the RNODC for drifting buoy data, has holdings of over 13 million unique drifting buoys records for the world's oceans, from 1978 to present, and growing at a rate of more than one million messages per year. A drifting buoy message is comprised of the buoy position and one or more of the following parameters: surface and subsurface water temperature, air pressure and temperature, wind speed and direction.

### **Current Meter Data**

The following inventory summarize current meter data collections in 2004 in the NAFO area:

- **Table 6a Current meter data recovered in the NAFO Area in 2004**
- **Table 6b Current meters deployed in the NAFO Area in 2004**

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](http://www.maritimes.dfo.ca/science/ocean/welcome.html)

### **Wave Data**

The following map displays where MEDS wave data was collected in 2004:

- **Figure 8 Wave Buoys in the NAFO Area in 2004 TOTAL = 8 Stations**

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

All real-time and historical wave data are now made available on-line from MEDS web site:

[http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/WAVE/WAVE\\_e.htm](http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/WAVE/WAVE_e.htm)

### **Tide and Water level Data**

The following map displays where MEDS tide and water level data was collected from:

- **Figure 9 Tide and water level data in the NAFO Area in 2004 TOTAL = 28 Stations**

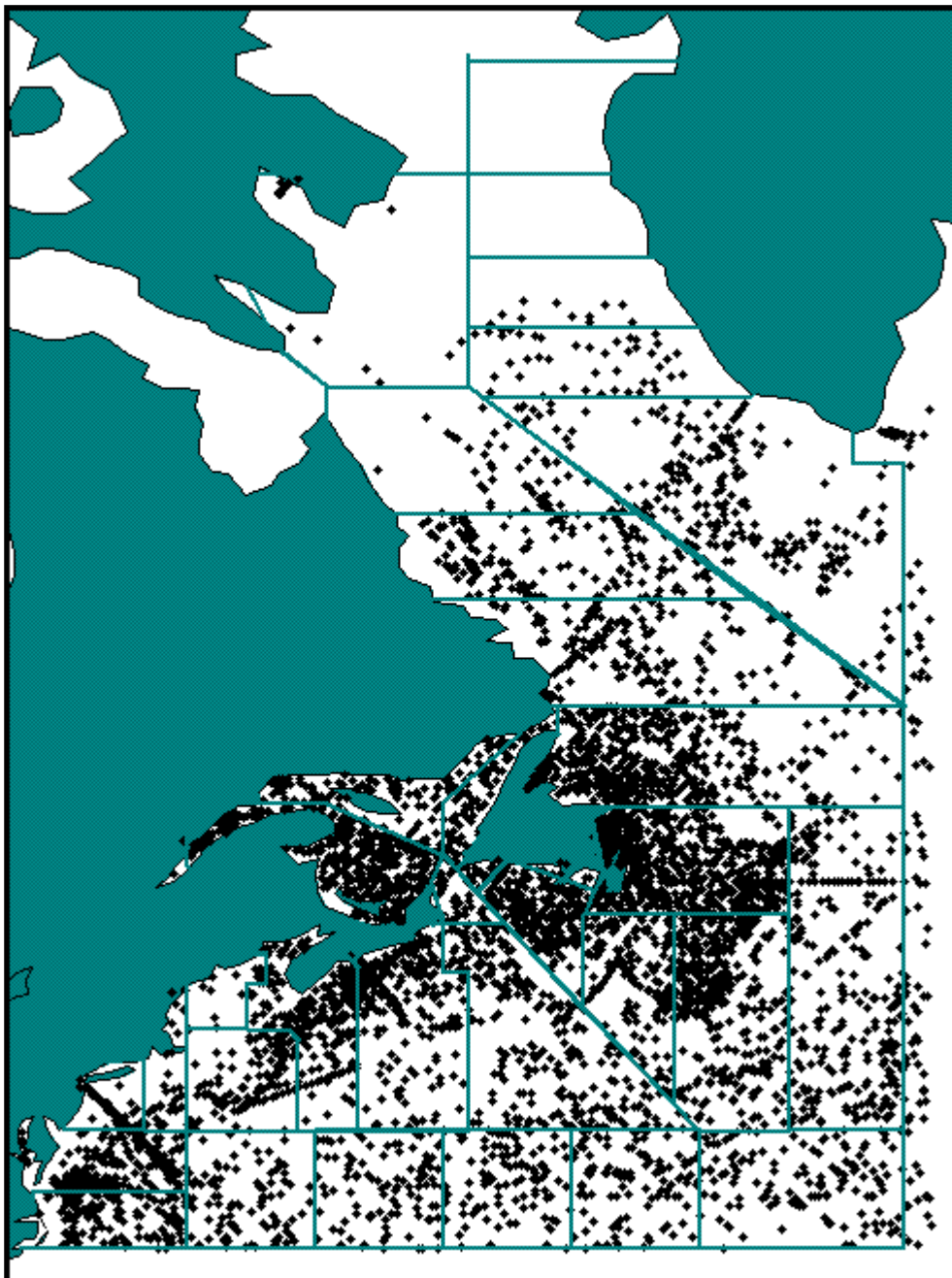
MEDS continued to process and archive operational tides and water level data that are reported on a daily to monthly basis from the Canadian water level network. MEDS archives observed 15-minute heights, hourly heights and monthly instantaneous extremes collected around Canada. Approximately 70,000 new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

[http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL\\_e.htm](http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/TWL/TWL_e.htm)

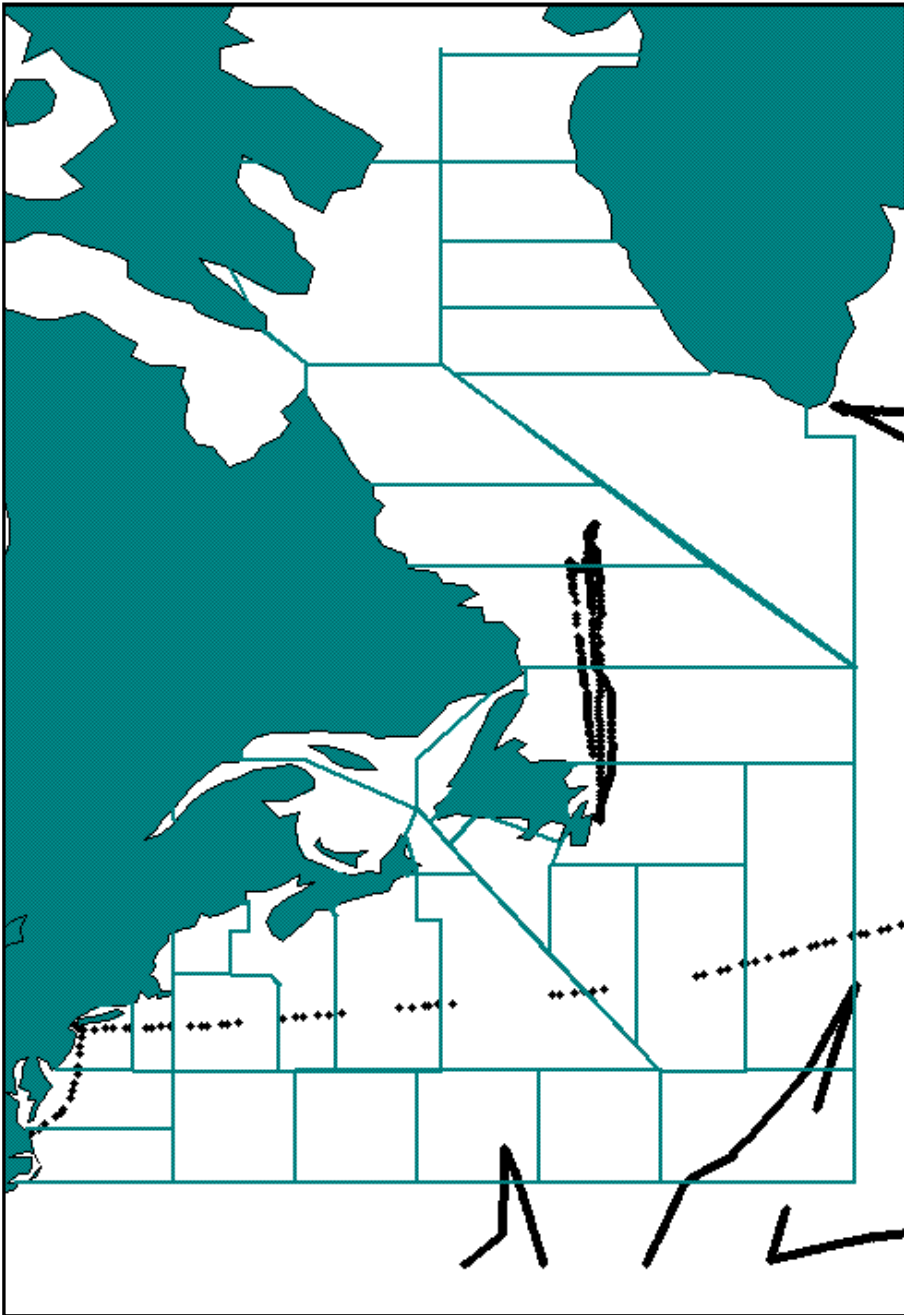
### **References**

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

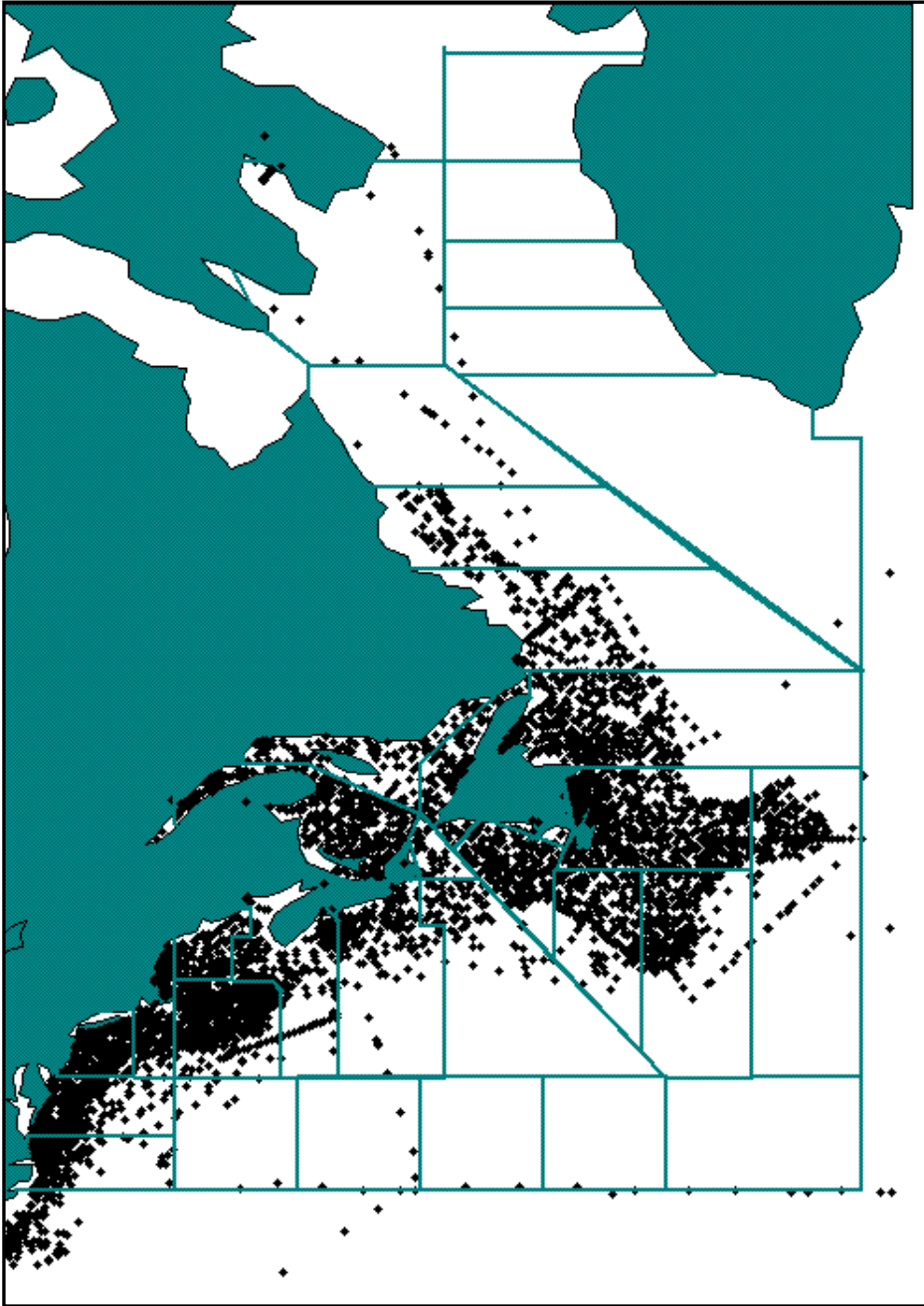
**Figure 3. Real Time Temperature-Salinity Stations 2004**  
Total = 65666 Stations



**Figure 4. Surface Thermosalinograph stations 2004**  
Total = 1191 Stations

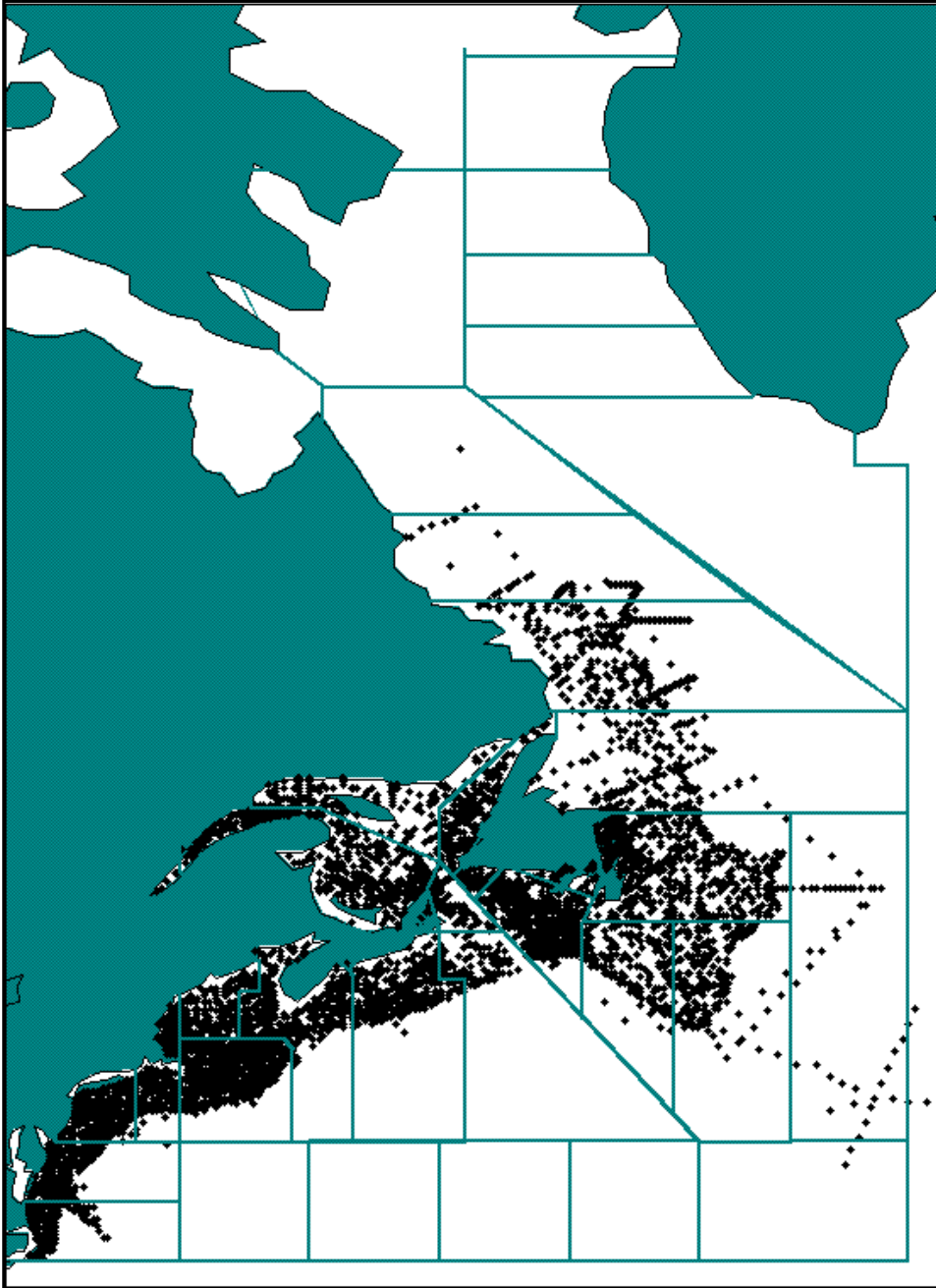


**Figure 5. Delayed mode profile stations 2004.**  
Total = 7764 Stations



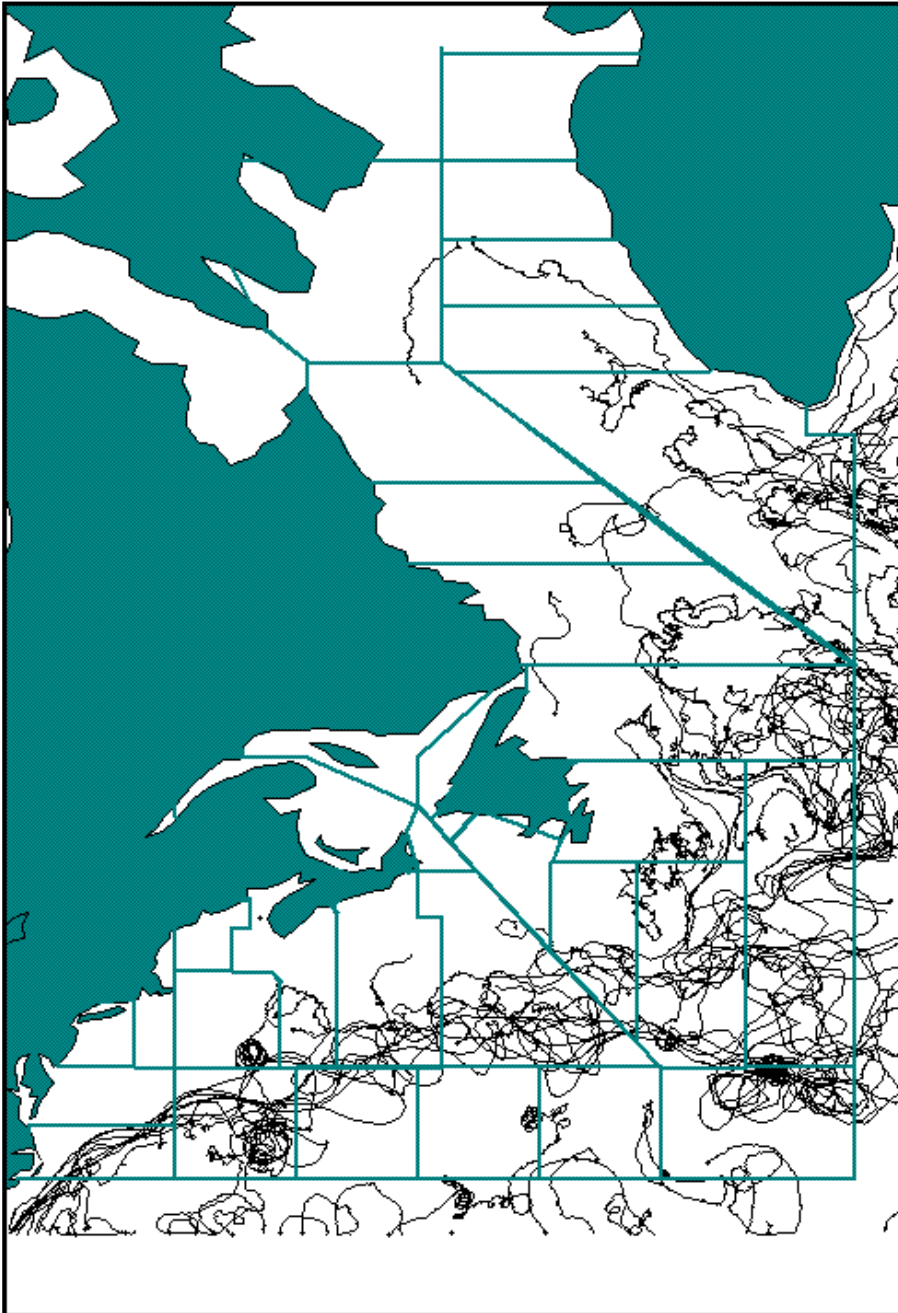


**Figure 6. Delayed mode profile stations collected before 2004 and processed in 2004.**  
Total = 9399 Stations





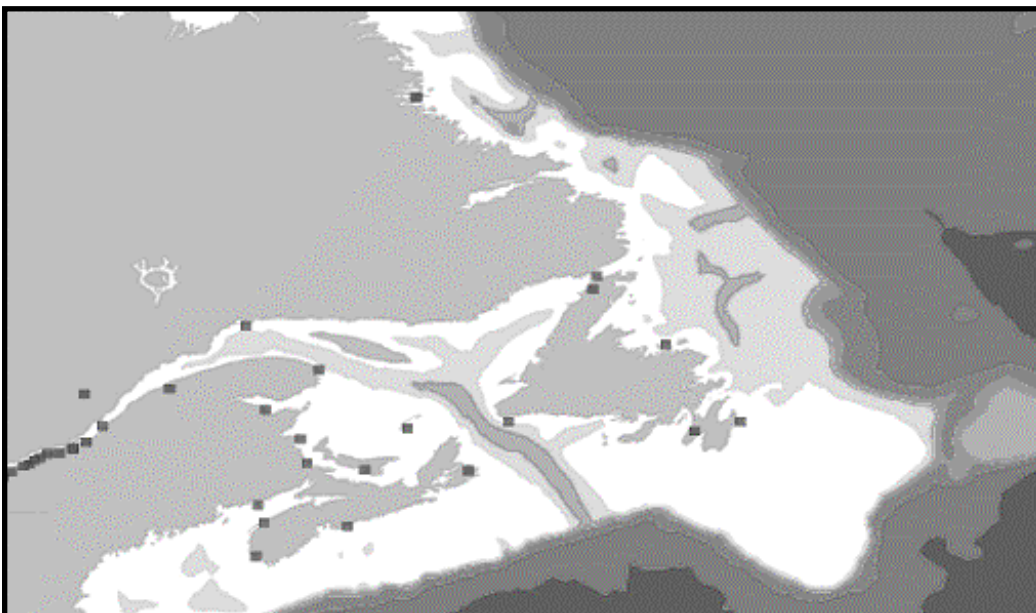
**Figure 7. Drifting Buoy messages 2004.**  
Total = 84106 Messages



**Figure 8 Wave Buoys in the NAFO Area in 2004**



**Figure 9 Tide and water level data in the NAFO Area in 2004**



**Table 1: Real Time data received during 2004.**  
**Total = 65666 stations**

SHIP NAME	COUNTRY	CALL SIGN	CRUISE PERIOD	BATHY	TESAC	NAFO SUBAREA
BUOY N NORTHEAST CHANNEL	USA	44024 04	Jun-30 - Sep-09	0	1692	4X
			Sep-14 - Oct-01	0	414	4X
DISCUS 3	USA	44027 04	Jan-01 - Dec 06	0	7936	5Y
BUOY	USA	44029 04	Mar-18 - May-07	0	1166	5ZW
			May-14 - Sep-09	0	2692	5ZW
			Sep-14 - Oct-24	0	902	5ZW
			Oct-29 - Nov-03	0	65	5ZW
			Nov-10 - Dec 31	0	520	5ZW
			Mar-18 - Aug-06	0	3244	5ZW
			Oct-13 - Dec 31	0	1357	5ZW
			Mar-18 - Sep-09	0	4036	5ZW
			Sep-14 - Dec 31	0	2507	5ZW
			Mar-18 - Apr-17	0	710	5Y
			Apr-22 - Sep-09	0	3211	5Y
			Sep-14 - Dec 31	0	2417	5Y
			Mar-18 - Apr-17	0	711	5Y
			Apr-22 - Sep-09	0	3217	5Y
			Sep-14 - Oct-07	0	498	5Y
			Oct-13 - Dec 31	0	1847	5Y
			Mar-18 - Apr-14	0	630	5Y
Apr-26 - Sep-09	0	3117	5Y			
Sep-14 - Dec 31	0	2457	5Y			
Mar-18 - May-08	0	1211	4X			
May-13 - Sep-09	0	2739	4X			
Sep-14 - Oct-07	0	486	4X			
Oct-13 - Dec 31	0	1865	4X			
Mar-18 - Apr-13	0	502	5Y			
Apr-26 - Jun-04	0	555	5Y			
Jul-09 - Sep-08	0	289	5Y			
Sep-15 - Sep-18	0	10	5Y			
Sep-25 - Dec 31	0	265	5Y			
Mar-20 - Jun-26	0	2214	4X			
Jul-08 - Sep-09	0	1372	4X			
Sep-14 - Oct-07	0	487	4X			
Oct-13 - Oct-20	0	157	4X			
Nov-18 - Dec 31	0	868	4X			
PROFILE FLOAT	GERMAN Y	69024 04	Jun-30 - Jun-30	0	1	6H
			Jul-15 - Jul-15	0	1	6H
			Sep-28 - Sep-28	0	1	6H
			Oct-13 - Oct-13	0	1	6H
UNKNOWN/I NCONNU	CANADA	CCG206 04	Mar-02 - Mar-02	0	1	3L
			Mar-25 - Mar-25	0	1	3L
OPILIO	CANADA	CFD2576 04	Sep-01 - Sep-01	0	1	4T

PANDALUS	CANADA	CFD4703 04	Jan-13 - Jan-13	0	1	4X
			Feb-17 - Feb-17	0	1	4X
			Mar-12 - Mar-12	0	1	4X
			Apr-15 - Apr-15	0	1	4X
			May-14 - May-14	0	1	4X
			Jun-14 - Jun-14	0	1	4X
			Aug-16 - Aug-16	0	1	4X
			Sep-15 - Sep-15	0	1	4X
			Oct-15 - Oct-15	0	1	4X
			Nov-16 - Nov-16	0	1	4X
			Dec 14 - Dec 14	0	1	4X
SAMBRO	CANADA	CG2613 04	Jan-13 - Jan-13	0	1	4W
			Feb-10 - Feb-10	0	1	4W
			Mar-19 - Mar-19	0	1	4W
			Aug-18 - Aug-18	0	1	4W
			Sep-15 - Sep-15	0	1	4W
			Nov-23 - Nov-23	0	1	4W
			Dec 16 - Dec 16	0	1	4W
J.L. HART	CANADA	CG2661 04	Jul-15 - Jul-15	0	1	4X
SHAMOOK	CANADA	CG2676 04	Jan-09 - Jan-10	0	7	3L
			Jan-17 - Jan-21	9	0	3L
			May-12 - May-25	4	49	3L
			Jun-02 - Jun-24	0	14	3L
			Jun-30 - Jul-22	0	100	3L
			Aug-03 - Aug-25	0	35	3L, 3PS
			Sep-04 - Oct-20	3	81	3K, 3L
			Nov-16 - Nov-29	0	50	3L
			Dec 04 - Dec 04	0	1	3L
BELUGA	CANADA	CG3161 04	May-06 - May-06	0	1	4T
			May-27 - May-27	0	1	4T
			Jun-10 - Jun-10	0	1	4T
			Jun-17 - Jun-22	0	2	4T
			Jun-29 - Jun-29	0	1	4T
			Jul-07 - Jul-07	0	1	4T
			Jul-21 - Jul-21	0	1	4T
			Jul-28 - Jul-28	0	1	4T
			Aug-06 - Aug-06	0	1	4T
			Sep-14 - Sep-14	0	1	4T
			Sep-23 - Sep-28	0	2	4T
			Oct-07 - Oct-07	0	1	4T
			Nov-23 - Nov-23	0	1	4T
NSC CALANUS II	CANADA	CG3187 04	Apr-17 - Apr-18	0	5	4T
			Apr-28 - Apr-30	0	6	4S
			May-28 - Jun-08	0	17	4S, 4T
			Jul-02 - Jul-07	0	21	4T
			Jul-13 - Jul-23	0	8	4S
			Aug-03 - Aug-06	0	5	4S
			Aug-15 - Aug-15	0	13	4T
			Oct-13 - Oct-17	0	19	4T
			Oct-25 - Oct-28	0	7	4T
ANN	CANADA	CGAH 04	Mar-05 - Mar-08	10	0	3K, 3L

HARVEY				Mar-21 - Mar-25	9	0	3K, 3L, 4R
HMCS CHARLOTTE TOWN	CANADA	CGAJ	04	Nov-26 - Nov-26	1	0	3N
GOOSE BAY	CANADA	CGBV	04	Mar-26 - Mar-26	1	0	4X
TELEOST	CANADA	CGCB	04	Jan-05 - Feb-12	12	198	2J, 3K, 3L, 3M, 3N, 3O
				Apr-02 - May-29	100	245	2J, 3K, 3L, 3M, 3N, 3O, 3PS
				Jun-08 - Jun-22	0	108	4R, 4S, 4T, 4VN
				Jul-05 - Jul-30	0	195	4VN, 4VS, 4W, 4X, 5Y
				Aug-16 - Sep-01	0	134	4R, 4S, 4T, 4VN
				Sep-07 - Sep-28	0	172	4T, 4VN
				Oct-07 - Oct-28	25	94	2G, 2H, 2J, 3L
				Nov-13 - Dec 02	10	104	2J, 3K, 3L
				Dec 07 - Dec 17	1	64	3K, 3L
MARTHA L. BLACK	CANADA	CGCC	04	Nov-10 - Nov-10	0	6	4T
GEORGE R. PEARKES	CANADA	CGCX	04	Feb-29 - Feb-29	0	2	4S, 4T
				Mar-14 - Mar-14	0	2	4S, 4T
HUDSON	CANADA	CGDG	04	Apr-06 - Apr-09	0	19	4W, 4X
				Apr-18 - May-08	0	75	3O, 3PS, 4R, 4VN, 4VS, 4W, 4X
				May-15 - May-29	0	43	1F, 2H, 2J, 3K, 4R, 4W, 4X
				Oct-19 - Oct-29	0	36	4R, 4VN, 4VS, 4W, 4X
				Nov-20 - Dec 05	16	131	3K, 3L, 3M, 3N, 3O
QUADRA	CANADA	CGDN	04	Nov-02 - Nov-15	0	72	4R, 4S, 4T, 4VN, 4W
W. TEMPLEMAN	CANADA	CGDV	04	Jan-07 - Jan-14	1	41	3K
				Feb-05 - Feb-17	0	34	4W, 5ZE
				Apr-21 - May-13	7	127	3L, 3O, 3PS, 3PN
				May-25 - Jun-27	23	218	3L, 3N, 3O, 3PS
				Jul-07 - Aug-21	40	187	2J, 3K, 3L, 3M
				Oct-30 - Dec 20	23	283	3L, 3N, 3O
ATHABASKA N	CANADA	CYWM	04	Oct-21 - Oct-21	1	0	4W
DUCKPIERC NC	USA	DUCN7	04	Dec 03 - Dec 31	0	678	6C
CONTSHIP LONDON	LIBERIA	ELVX4	04	May-19 - May-19	1	0	4VS
				Aug-11 - Aug-12	3	0	3M, 4VS
				Nov-01 - Nov-01	1	0	3M
CAP SAN ANTONIO	LIBERIA	ELZU6	04	Jan-08 - Jan-08	1	0	6B
				Apr-10 - Apr-10	2	0	6D
				May-23 - May-24	2	0	6B, 6D
				Aug-13 - Aug-14	3	0	6B, 6C, 6D
				Sep-22 - Sep-23	2	0	6D
				Dec 10 - Dec 10	2	0	6B, 6C
		GLAC	04	Nov-10 - Nov-10	1	0	6B
SEALAND EXPRESS	USA	KGJD	04	May-02 - May-02	3	0	6B, 6D
				Jun-24 - Jun-24	1	0	6D
				Aug-14 - Aug-14	3	0	6A, 6D

HORIZON HAWAII	USA	KIRF	04	Feb-14 - Feb-14	1	0	6B
				Feb-28 - Feb-28	2	0	6B, 6C
				Mar-12 - Mar-14	4	0	6B, 6C
				Mar-27 - Mar-28	3	0	6A, 6B, 6C
				Apr-08 - Apr-10	2	0	6B, 6C
				Apr-22 - Apr-24	3	0	6B, 6C
				May-06 - May-08	3	0	6B, 6C
				May-20 - May-23	4	0	6B, 6C
				Jun-03 - Jun-05	2	0	6C
				Jun-19 - Jun-19	1	0	6C
				Jul-15 - Jul-17	3	0	6B, 6C
				Jul-29 - Aug-01	2	0	6C
				Aug-12 - Aug-15	3	0	6B, 6C
				Aug-26 - Aug-29	3	0	6B, 6C
				Sep-09 - Sep-09	1	0	6B
				Sep-23 - Sep-25	3	0	6B, 6C
				Oct-07 - Oct-08	3	0	6B, 6C
				Oct-21 - Oct-24	4	0	6B, 6C
				Nov-04 - Nov-06	2	0	6C
				Dec 16 - Dec 19	3	0	6C
OLEANDER	NETHER LAND	PJJU	04	Jan-08 - Jan-10	3	0	6A
				Mar-05 - Mar-06	15	0	6A, 6B, 6D
				Apr-02 - Apr-03	11	0	6A, 6B
				May-08 - May-12	5	0	6B, 6D
				Jun-09 - Jun-09	1	0	6D
				Jul-09 - Jul-10	17	0	6A, 6B, 6D
				Aug-07 - Aug-11	21	0	6A, 6B, 6D
				Sep-10 - Sep-15	20	0	6A, 6B, 6D
				Oct-01 - Oct-05	6	0	6A, 6D
				Nov-12 - Nov-17	20	0	6A, 6B, 6D
				Dec 03 - Dec 07	15	0	6A, 6B, 6D
PROFILE FLOAT	USA	Q190003904		Apr-29 - Apr-29	0	1	6G
				May-19 - May-19	0	1	6G
				May-29 - May-29	0	1	6G
				Jun-08 - Jun-08	0	1	6G
				Jun-18 - Jun-18	0	1	6G
				Jun-28 - Jun-28	0	1	6G
				Jul-08 - Jul-08	0	1	6F
				Jul-18 - Jul-18	0	1	6F
				Jul-28 - Jul-28	0	1	6F
				Aug-07 - Aug-07	0	1	6F
				Aug-17 - Aug-17	0	1	6F
				Aug-28 - Aug-28	0	1	6G
				Sep-06 - Sep-06	0	1	4VS
				Sep-16 - Sep-16	0	1	6H
				Sep-27 - Sep-27	0	1	6H
				Oct-06 - Oct-06	0	1	6H
				Oct-16 - Oct-16	0	1	6H
				Oct-27 - Oct-27	0	1	6H
				Nov-06 - Nov-06	0	1	6H

			Nov-16 - Nov-16	0	1	6H
			Nov-26 - Nov-26	0	1	6H
			Dec 06 - Dec 06	0	1	6H
			Dec 16 - Dec 16	0	1	6G
			Dec 26 - Dec 26	0	1	6G
			May-17 - May-17	0	1	5ZW
			Jun-21 - Jun-21	0	1	5ZW
			Jan-06 - Jan-06	0	1	1F
			Jan-16 - Jan-16	0	1	1F
			Jan-26 - Jan-26	0	1	1F
			Feb-05 - Feb-05	0	1	1F
			Feb-15 - Feb-15	0	1	1F
			Feb-25 - Feb-25	0	1	1F
			Mar-06 - Mar-06	0	1	1F
			Mar-16 - Mar-16	0	1	1F
			Mar-26 - Mar-26	0	1	1F
			Apr-05 - Apr-05	0	1	1F
			Apr-15 - Apr-15	0	1	1F
			Apr-25 - Apr-25	0	1	1F
			May-05 - May-05	0	1	1F
			May-15 - May-15	0	1	1F
			May-25 - May-25	0	1	1F
			Jun-04 - Jun-04	0	1	1F
			Jun-14 - Jun-14	0	1	1F
			Jun-24 - Jun-24	0	1	1F
			Jul-04 - Jul-04	0	1	1F
			Jul-14 - Jul-14	0	1	1F
			Jul-24 - Jul-24	0	1	1F
			Aug-03 - Aug-03	0	1	1F
			Aug-13 - Aug-13	0	1	1F
			Aug-23 - Aug-23	0	1	1F
			Sep-02 - Sep-02	0	1	1F
			Sep-12 - Sep-12	0	1	1F
			Sep-22 - Sep-22	0	1	1F
			Oct-02 - Oct-02	0	1	1F
			Oct-12 - Oct-12	0	1	1F
			Oct-22 - Oct-22	0	1	1F
			Nov-01 - Nov-01	0	1	1F
			Nov-11 - Nov-11	0	1	1F
			Nov-21 - Nov-21	0	1	1F
			Dec 01 - Dec 01	0	1	2J
			Dec 11 - Dec 11	0	1	1F
			Dec 21 - Dec 21	0	1	1F
			Dec 31 - Dec 31	0	1	1F
			Jan-07 - Jan-07	0	1	2J
			Jan-17 - Jan-17	0	1	2J
			Jan-27 - Jan-27	0	1	2J
			Feb-06 - Feb-06	0	1	2J
			Feb-16 - Feb-16	0	1	2J
			Feb-26 - Feb-26	0	1	2J
			Mar-07 - Mar-07	0	1	2J
			Mar-17 - Mar-17	0	1	2J
			Mar-27 - Mar-27	0	1	2J



			Apr-06 - Apr-06	0	1	2J
			Apr-16 - Apr-16	0	1	2J
			Apr-26 - Apr-26	0	1	2J
			May-06 - May-06	0	1	2J
			May-16 - May-16	0	1	2J
			May-26 - May-26	0	1	2J
			Jun-05 - Jun-05	0	1	2J
			Jun-15 - Jun-15	0	1	2H
			Jun-25 - Jun-25	0	1	2H
			Jul-05 - Jul-05	0	1	2H
			Jul-15 - Jul-15	0	1	2H
			Jul-26 - Jul-26	0	1	2H
			Aug-04 - Aug-04	0	1	2H
			Aug-14 - Aug-14	0	1	2H
			Aug-24 - Aug-24	0	1	2H
			Sep-03 - Sep-03	0	1	2H
			Sep-13 - Sep-13	0	1	2H
			Sep-23 - Sep-23	0	1	2H
			Oct-03 - Oct-03	0	1	2H
			Oct-13 - Oct-13	0	1	2H
			Oct-23 - Oct-23	0	1	2H
			Nov-02 - Nov-02	0	1	2H
			Nov-12 - Nov-12	0	1	2H
			Nov-22 - Nov-22	0	1	2H
			Dec 02 - Dec 02	0	1	2H
			Dec 12 - Dec 12	0	1	2H
			Dec 22 - Dec 22	0	1	2H
			Jan-08 - Jan-08	0	1	6F
			Jan-18 - Jan-18	0	1	6F
			Jan-28 - Jan-28	0	1	6F
			Feb-07 - Feb-07	0	1	6F
			Feb-17 - Feb-17	0	1	6F
			Feb-27 - Feb-27	0	1	6F
			Mar-08 - Mar-08	0	1	6F
			Mar-18 - Mar-18	0	1	6F
			Mar-28 - Mar-28	0	1	6F
			May-17 - May-17	0	1	6E
			May-27 - May-27	0	1	6F
			Jun-06 - Jun-06	0	1	6F
			Jun-16 - Jun-16	0	1	6F
			Jun-26 - Jun-26	0	1	6F
			Jan-07 - Jan-07	0	1	4VS
			Jan-17 - Jan-17	0	1	4VS
			Jan-27 - Jan-27	0	1	4VS
			Feb-06 - Feb-06	0	1	4VS
			Feb-16 - Feb-16	0	1	4W
			Feb-26 - Feb-26	0	1	4W
			Mar-07 - Mar-07	0	1	4W
			Mar-17 - Mar-17	0	1	4W
			Mar-27 - Mar-27	0	1	4W
			Apr-06 - Apr-06	0	1	4W
			Apr-16 - Apr-16	0	1	4W
			Apr-26 - Apr-26	0	1	4W

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

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

			May-20 - May-20	0	1	1F
			May-30 - May-30	0	1	1F
			Jun-09 - Jun-09	0	1	1F
			Jun-19 - Jun-19	0	1	1F
			Jun-29 - Jun-29	0	1	1F
			Jul-09 - Jul-09	0	1	1F
			Jul-19 - Jul-19	0	1	1F
			Jul-29 - Jul-29	0	1	1F
			Aug-08 - Aug-08	0	1	1F
			Aug-18 - Aug-18	0	1	1F
			Aug-28 - Aug-28	0	1	1F
			Sep-07 - Sep-07	0	1	1F
			Sep-17 - Sep-17	0	1	1F
			Jun-26 - Jun-26	0	1	1F
			Jul-06 - Jul-06	0	1	1F
			Jul-16 - Jul-16	0	1	1E
			Jul-26 - Jul-26	0	1	1E
			Aug-05 - Aug-05	0	1	1D
			Aug-15 - Aug-15	0	1	1D
			Jan-09 - Jan-09	0	1	5ZE
			Jan-19 - Jan-19	0	1	5ZE
			Jan-29 - Jan-29	0	1	5ZE
			Feb-08 - Feb-08	0	1	6D
			Feb-18 - Feb-18	0	1	6B
			Feb-28 - Feb-28	0	1	6B
			Mar-09 - Mar-09	0	1	6B
			Mar-19 - Mar-19	0	1	6B
			Mar-29 - Mar-29	0	1	6B
			Apr-08 - Apr-08	0	1	6B
			Apr-18 - Apr-18	0	1	6B
			Apr-28 - Apr-28	0	1	6C
			May-08 - May-08	0	1	6C
			May-18 - May-18	0	1	6C
			May-28 - May-28	0	1	6C
			Jun-07 - Jun-07	0	1	6C
			Jun-17 - Jun-17	0	1	6B
			Jun-27 - Jun-27	0	1	6D
			Jul-07 - Jul-07	0	1	6D
			Jul-17 - Jul-17	0	1	6D
			Jul-27 - Jul-27	0	1	6D
			Aug-06 - Aug-06	0	1	6D
			Aug-16 - Aug-16	0	1	6D
			Aug-26 - Aug-26	0	1	6D
			Sep-05 - Sep-05	0	1	6D
			Sep-15 - Sep-15	0	1	6D
			Sep-25 - Sep-25	0	1	6D
			Oct-05 - Oct-05	0	1	6D
			Oct-15 - Oct-15	0	1	6D
			Oct-25 - Oct-25	0	1	6D
			Nov-04 - Nov-04	0	1	6D
			Nov-14 - Nov-14	0	1	6D
			Jan-03 - Jan-03	0	1	6G
			Jan-13 - Jan-13	0	1	6G

			Jan-23 - Jan-23	0	1	4VS
			Feb-02 - Feb-02	0	1	4VS
			Feb-12 - Feb-12	0	1	6G
			Feb-22 - Feb-22	0	1	4VS
			Mar-03 - Mar-03	0	1	4VS
			Mar-13 - Mar-13	0	1	4VS
			Mar-23 - Mar-23	0	1	4VS
			Apr-02 - Apr-02	0	1	4VS
			Apr-12 - Apr-12	0	1	4VS
			Apr-22 - Apr-22	0	1	4VS
			May-02 - May-02	0	1	3O
			May-12 - May-12	0	1	3O
			May-22 - May-22	0	1	3O
			Jun-01 - Jun-01	0	1	3O
			Jun-11 - Jun-11	0	1	6G
			Jun-21 - Jun-21	0	1	6H
			Jul-01 - Jul-01	0	1	6G
			Jul-11 - Jul-11	0	1	6G
			Jul-21 - Jul-21	0	1	6G
			Jul-31 - Jul-31	0	1	6G
			Aug-10 - Aug-10	0	1	4VS
			Aug-20 - Aug-20	0	1	4VS
			Aug-30 - Aug-30	0	1	4VS
			Sep-09 - Sep-09	0	1	4VS
			Sep-19 - Sep-19	0	1	6G
			Sep-29 - Sep-29	0	1	6G
			Oct-09 - Oct-09	0	1	6G
			Oct-19 - Oct-19	0	1	6G
			Oct-29 - Oct-29	0	1	6G
			Nov-08 - Nov-08	0	1	6G
			Nov-18 - Nov-18	0	1	6G
			Nov-28 - Nov-28	0	1	6G
			Dec 08 - Dec 08	0	1	4VS
			Dec 18 - Dec 18	0	1	3O
			Dec 28 - Dec 28	0	1	3O
			Jan-04 - Jan-04	0	1	3M
			Jan-14 - Jan-14	0	1	3M
			Jan-24 - Jan-24	0	1	3M
			Feb-03 - Feb-03	0	1	3M
			Mar-24 - Mar-24	0	1	3M
			Apr-03 - Apr-03	0	1	3M
			Apr-13 - Apr-13	0	1	3M
			Apr-23 - Apr-23	0	1	3M
			May-03 - May-03	0	1	3M
			May-13 - May-13	0	1	3M
			May-23 - May-23	0	1	3N
			Jun-02 - Jun-02	0	1	3M
			Jun-12 - Jun-12	0	1	3M
			Feb-06 - Feb-06	0	1	3M
			Feb-16 - Feb-16	0	1	3M
			Feb-26 - Feb-26	0	1	3M
			Mar-07 - Mar-07	0	1	3M
			Mar-17 - Mar-17	0	1	3M

			Mar-27 - Mar-27	0	1	3M
			Apr-06 - Apr-06	0	1	3M
			Apr-16 - Apr-16	0	1	3M
			Apr-26 - Apr-26	0	1	3M
			May-06 - May-06	0	1	3M
			May-16 - May-16	0	1	3M
			May-26 - May-26	0	1	3M
			Nov-12 - Nov-12	0	1	3M
			Nov-22 - Nov-22	0	1	3M
			Jan-07 - Jan-07	0	1	6E
			Jan-17 - Jan-17	0	1	6E
			Jan-27 - Jan-27	0	1	6E
			Feb-06 - Feb-06	0	1	6F
			Feb-16 - Feb-16	0	1	6E
			Feb-26 - Feb-26	0	1	6E
			Mar-07 - Mar-07	0	1	6E
			Mar-17 - Mar-17	0	1	6E
			Mar-27 - Mar-27	0	1	6E
			Apr-06 - Apr-06	0	1	6E
			Apr-16 - Apr-16	0	1	6E
			Jan-03 - Jan-03	0	1	6B
			Jan-13 - Jan-13	0	1	6D
			Jan-23 - Jan-23	0	1	6D
			Feb-02 - Feb-02	0	1	6D
			Feb-12 - Feb-12	0	1	6D
			Feb-22 - Feb-22	0	1	6C
			Mar-03 - Mar-03	0	1	6C
			Mar-13 - Mar-13	0	1	6C
			Mar-23 - Mar-23	0	1	6C
			Apr-02 - Apr-02	0	1	6C
			Apr-12 - Apr-12	0	1	6C
			Apr-22 - Apr-22	0	1	6C
			May-02 - May-02	0	1	6C
			May-12 - May-12	0	1	6C
			May-22 - May-22	0	1	6C
			Jun-01 - Jun-01	0	1	6C
			Jul-01 - Jul-01	0	1	6C
			Jul-11 - Jul-11	0	1	6C
			Aug-20 - Aug-20	0	1	6C
			Aug-30 - Aug-30	0	1	6C
			Sep-09 - Sep-09	0	1	6C
			Sep-19 - Sep-19	0	1	6D
			Sep-29 - Sep-29	0	1	6B
			Oct-10 - Oct-10	0	1	6B
			Oct-19 - Oct-19	0	1	6B
			Oct-29 - Oct-29	0	1	6B
			Nov-08 - Nov-08	0	1	6B
			Nov-18 - Nov-18	0	1	6B
			Nov-28 - Nov-28	0	1	6B
			Dec 08 - Dec 08	0	1	6C
			Dec 18 - Dec 18	0	1	6C
			Dec 28 - Dec 28	0	1	6C
			Jan-05 - Jan-05	0	1	3M

			Jan-15 - Jan-15	0	1	3M
			Jan-08 - Jan-08	0	1	3M
			Jan-18 - Jan-18	0	1	3M
			Jan-28 - Jan-28	0	1	3M
			Jan-09 - Jan-09	0	1	3M
			Jan-19 - Jan-19	0	1	3M
			Jan-29 - Jan-29	0	1	3M
			Feb-08 - Feb-08	0	1	3N
			Feb-18 - Feb-18	0	1	3N
			Feb-28 - Feb-28	0	1	3N
			Mar-09 - Mar-09	0	1	3M
			Mar-19 - Mar-19	0	1	3N
			Mar-29 - Mar-29	0	1	3N
			May-08 - May-08	0	1	3N
			May-18 - May-18	0	1	3N
			May-28 - May-28	0	1	3N
			Jun-07 - Jun-07	0	1	3N
			Jun-17 - Jun-17	0	1	3N
			Jun-27 - Jun-27	0	1	3N
			Jul-07 - Jul-07	0	1	3M
			Jul-17 - Jul-17	0	1	3M
			Jul-27 - Jul-27	0	1	3M
			Aug-06 - Aug-06	0	1	3M
			Aug-16 - Aug-16	0	1	3M
			Aug-26 - Aug-26	0	1	3M
			Sep-05 - Sep-05	0	1	3M
			Sep-15 - Sep-15	0	1	3M
			Sep-25 - Sep-25	0	1	3M
			Oct-05 - Oct-05	0	1	3M
			Oct-15 - Oct-15	0	1	3N
			Oct-25 - Oct-25	0	1	3N
			Nov-04 - Nov-04	0	1	3M
			Nov-14 - Nov-14	0	1	3M
			Nov-24 - Nov-24	0	1	3M
			Dec 04 - Dec 04	0	1	3M
			Dec 14 - Dec 14	0	1	3M
			Dec 24 - Dec 24	0	1	3N
			Feb-20 - Feb-20	0	1	1F
			Feb-29 - Feb-29	0	1	1F
			Mar-11 - Mar-11	0	1	1F
			Mar-20 - Mar-20	0	1	1F
			Mar-31 - Mar-31	0	1	1F
			May-11 - May-11	0	1	1F
			May-21 - May-21	0	1	1E
			May-31 - May-31	0	1	1E
			Jun-10 - Jun-10	0	1	1E
			Jun-20 - Jun-20	0	1	1E
			Jun-30 - Jun-30	0	1	1E
			Jul-10 - Jul-10	0	1	1E
			Jul-20 - Jul-20	0	1	1E
			Jul-30 - Jul-30	0	1	1F
			Aug-09 - Aug-09	0	1	1F
			Aug-19 - Aug-19	0	1	1E



			Aug-29 - Aug-29	0	1	1E
			Jul-02 - Aug-01	0	7	3K
			Aug-06 - Aug-06	0	1	3K
			Aug-11 - Sep-10	0	7	3K
			Sep-15 - Oct-15	0	7	3K
			Oct-20 - Oct-25	0	2	3K
			Oct-30 - Nov-19	0	5	3K, 3L, 3M
			Nov-24 - Nov-24	0	1	3K
			Nov-29 - Dec 24	0	6	3K, 3M
			Dec 29 - Dec 29	0	1	3M
			Jul-14 - Jul-14	0	1	3M
			Jul-24 - Jul-24	0	1	3M
			Aug-23 - Aug-23	0	1	3M
			Sep-02 - Sep-02	0	1	3M
			Sep-12 - Sep-12	0	1	3M
			Sep-22 - Sep-22	0	1	3M
			Oct-02 - Oct-02	0	1	3M
			Oct-12 - Oct-12	0	1	3M
			Oct-22 - Oct-22	0	1	3M
			Nov-01 - Nov-01	0	1	3M
			Nov-11 - Nov-11	0	1	3M
			Nov-21 - Nov-21	0	1	3M
			Dec 01 - Dec 01	0	1	3M
			Dec 11 - Dec 11	0	1	3M
			Dec 21 - Dec 21	0	1	6H
			Dec 31 - Dec 31	0	1	6H
			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
			Jan-06 - Jan-06	0	1	3M
			Jan-26 - Jan-26	0	1	3M
			Feb-06 - Feb-06	0	1	3M
			Feb-16 - Feb-16	0	1	3M
			Feb-26 - Feb-26	0	1	3M
			Mar-07 - Mar-07	0	1	3M
			Mar-17 - Mar-17	0	1	3M
			Mar-03 - Mar-03	0	1	3M
			Mar-23 - Mar-23	0	1	3M
			Apr-02 - Apr-02	0	1	3M
			Apr-22 - Apr-22	0	1	3M
			May-02 - May-02	0	1	3M
			May-12 - May-12	0	1	3M
			May-22 - May-22	0	1	3M
			Jun-01 - Jun-01	0	1	3M
			Jun-11 - Jun-11	0	1	3M
			Jun-21 - Jun-21	0	1	3M
			Jul-01 - Jul-01	0	1	3M
			Jul-11 - Jul-11	0	1	3M
			Jul-21 - Jul-21	0	1	3M

			Jul-31 - Jul-31	0	1	3N
			Jan-10 - Jan-10	0	1	3M
			Jan-20 - Jan-20	0	1	3M
			Jan-30 - Jan-30	0	1	3M
			Feb-09 - Feb-09	0	1	3M
			Feb-19 - Feb-19	0	1	3M
			Oct-06 - Oct-06	0	1	3M
			Oct-16 - Oct-16	0	1	3M
			Oct-26 - Oct-26	0	1	3M
			Nov-05 - Nov-05	0	1	3M
			Jan-03 - Jan-03	0	1	1E
			Jan-13 - Jan-13	0	1	1E
			Jan-23 - Jan-23	0	1	1D
			Feb-02 - Feb-02	0	1	1E
			Feb-12 - Feb-12	0	1	1E
			Feb-22 - Feb-22	0	1	1E
			Mar-03 - Mar-03	0	1	1E
			Mar-13 - Mar-13	0	1	1F
			Mar-23 - Mar-23	0	1	2G
			Apr-02 - Apr-02	0	1	2G
			Apr-12 - Apr-12	0	1	2G
			Apr-22 - Apr-22	0	1	2G
			May-02 - May-02	0	1	2G
			May-12 - May-12	0	1	1F
			May-22 - May-22	0	1	1F
			Jun-01 - Jun-01	0	1	1F
			Jun-11 - Jun-11	0	1	1F
			Jun-21 - Jun-21	0	1	1F
			Jul-01 - Jul-01	0	1	2G
			Jul-11 - Jul-11	0	1	2G
			Jul-21 - Jul-21	0	1	2G
			Jul-31 - Jul-31	0	1	2G
			Aug-10 - Aug-10	0	1	2G
			Aug-20 - Aug-20	0	1	2G
			Aug-30 - Aug-30	0	1	2G
			Sep-09 - Sep-09	0	1	2G
			Sep-19 - Sep-19	0	1	2H
			Jan-05 - Jan-05	0	1	4VS
			Jan-15 - Jan-15	0	1	4VS
			Jan-25 - Jan-25	0	1	4VS
			Feb-04 - Feb-04	0	1	4VS
			Feb-14 - Feb-14	0	1	4VS
			Feb-24 - Feb-24	0	1	4VS
			Mar-05 - Mar-05	0	1	4VS
			Mar-15 - Mar-15	0	1	4VS
			Mar-25 - Mar-25	0	1	4VS
			Apr-04 - Apr-04	0	1	4VS
			Apr-14 - Apr-14	0	1	4VS
			Apr-24 - Apr-24	0	1	4VS
			May-04 - May-04	0	1	4VS
			May-14 - May-14	0	1	4VS
			May-24 - May-24	0	1	4VS
			Jun-03 - Jun-03	0	1	4VS

			Jun-13 - Jun-13	0	1	4VS
			Jul-03 - Jul-03	0	1	4VS
			Jul-13 - Jul-13	0	1	4VS
			Jul-23 - Jul-23	0	1	4VS
			Aug-02 - Aug-02	0	1	4VS
			Aug-12 - Aug-12	0	1	4VS
			Aug-22 - Aug-22	0	1	4VS
			Sep-01 - Sep-01	0	1	4VS
			Sep-11 - Sep-11	0	1	4VS
			Sep-21 - Sep-21	0	1	4VS
			Oct-01 - Oct-01	0	1	4VS
			Oct-11 - Oct-11	0	1	4VS
			Oct-21 - Oct-21	0	1	4VS
			Oct-31 - Oct-31	0	1	4VS
			Nov-10 - Nov-10	0	1	4VS
			Nov-20 - Nov-20	0	1	4VS
			Nov-30 - Nov-30	0	1	4VS
			Dec 10 - Dec 10	0	1	4VS
			Dec 20 - Dec 20	0	1	4VS
			Dec 30 - Dec 30	0	1	4VS
			Jan-05 - Jan-05	0	1	3N
			Jan-15 - Jan-15	0	1	3N
			Jan-25 - Jan-25	0	1	3N
			Feb-04 - Feb-04	0	1	3N
			Feb-14 - Feb-14	0	1	3N
			Feb-24 - Feb-24	0	1	3N
			Mar-05 - Mar-05	0	1	3N
			Mar-15 - Mar-15	0	1	3N
			Mar-25 - Mar-25	0	1	3N
			Apr-04 - Apr-04	0	1	3N
			Apr-14 - Apr-14	0	1	3N
			Apr-24 - Apr-24	0	1	3N
			May-04 - May-04	0	1	3M
			May-14 - May-14	0	1	3N
			May-24 - May-24	0	1	3N
			Jun-03 - Jun-03	0	1	3N
			Jun-13 - Jun-13	0	1	3N
			Jul-03 - Jul-03	0	1	3O
			Jul-13 - Jul-13	0	1	3O
			Jul-23 - Jul-23	0	1	3O
			Aug-02 - Aug-02	0	1	3N
			Aug-12 - Aug-12	0	1	3N
			Aug-22 - Aug-22	0	1	3N
			Sep-01 - Sep-01	0	1	3N
			Sep-11 - Sep-11	0	1	3N
			Sep-21 - Sep-21	0	1	3N
			Oct-01 - Oct-01	0	1	3N
			Oct-11 - Oct-11	0	1	3N
			Oct-21 - Oct-21	0	1	3N
			Oct-31 - Oct-31	0	1	3N
			Nov-10 - Nov-10	0	1	3N
			Nov-20 - Nov-20	0	1	3N
			Nov-30 - Nov-30	0	1	3N

			Dec 10 - Dec 10	0	1	3N
			Dec 20 - Dec 20	0	1	3N
			Dec 30 - Dec 30	0	1	3N
			Jan-19 - Jan-19	0	1	6E
			Jan-29 - Jan-29	0	1	6E
			Feb-08 - Feb-08	0	1	6E
			Feb-18 - Feb-18	0	1	6E
			Feb-28 - Feb-28	0	1	6E
			Mar-09 - Mar-09	0	1	6E
			Mar-19 - Mar-19	0	1	6E
			Mar-29 - Mar-29	0	1	6E
			Apr-08 - Apr-08	0	1	6E
			Apr-18 - Apr-18	0	1	4W
			Apr-28 - Apr-28	0	1	6F
			May-08 - May-08	0	1	6F
			May-18 - May-18	0	1	6F
			May-28 - May-28	0	1	6F
			Jun-07 - Jun-07	0	1	6F
			Jun-17 - Jun-17	0	1	6F
			Jun-27 - Jun-27	0	1	6F
			Jul-07 - Jul-07	0	1	6F
			Jul-17 - Jul-17	0	1	4VS
			Jul-27 - Jul-27	0	1	4VS
			Aug-06 - Aug-06	0	1	6G
			Aug-16 - Aug-16	0	1	6G
			Aug-26 - Aug-26	0	1	6G
			Sep-05 - Sep-05	0	1	6G
			Sep-15 - Sep-15	0	1	4VS
			Sep-25 - Sep-25	0	1	4VS
			Oct-05 - Oct-05	0	1	3O
			Oct-15 - Oct-15	0	1	4VS
			Oct-25 - Oct-25	0	1	4VS
			Nov-04 - Nov-04	0	1	4VS
			Nov-14 - Nov-14	0	1	4VS
			Nov-24 - Nov-24	0	1	4VS
			Dec 04 - Dec 04	0	1	4VS
			Dec 14 - Dec 14	0	1	4VS
			Dec 24 - Dec 24	0	1	4VS
			Feb-20 - Feb-20	0	1	3M
			May-10 - May-10	0	1	3K
			Aug-08 - Aug-08	0	1	3M
			Aug-18 - Aug-18	0	1	3K
			Aug-28 - Aug-28	0	1	3K
			Sep-07 - Sep-07	0	1	3K
			Sep-17 - Sep-17	0	1	3K
			Jan-04 - Jan-04	0	1	3N
			Jan-14 - Jan-14	0	1	3N
			Jan-24 - Jan-24	0	1	3N
			Feb-03 - Feb-03	0	1	3N
			Feb-13 - Feb-13	0	1	3N
			Feb-23 - Feb-23	0	1	3N
			Mar-04 - Mar-04	0	1	3N
			Mar-14 - Mar-14	0	1	3N

			Mar-24 - Mar-24	0	1	3N
			Apr-03 - Apr-03	0	1	3N
			Apr-13 - Apr-13	0	1	3N
			Apr-23 - Apr-23	0	1	3N
			May-03 - May-03	0	1	3N
			May-13 - May-13	0	1	3N
			May-23 - May-23	0	1	3N
			Jun-02 - Jun-02	0	1	3N
			Jun-12 - Jun-12	0	1	4VS
			Jun-22 - Jun-22	0	1	3N
			Jul-02 - Jul-02	0	1	3N
			Jul-12 - Jul-12	0	1	3N
			Jul-22 - Jul-22	0	1	3N
			Aug-01 - Aug-01	0	1	3N
			Aug-11 - Aug-11	0	1	3N
			Aug-21 - Aug-21	0	1	3N
			Aug-31 - Aug-31	0	1	3M
			Sep-10 - Sep-10	0	1	3M
			Sep-20 - Sep-20	0	1	3M
			Sep-30 - Sep-30	0	1	3M
			Oct-10 - Oct-10	0	1	3M
			Oct-20 - Oct-20	0	1	3M
			Oct-30 - Oct-30	0	1	3M
			Nov-09 - Nov-09	0	1	3M
			Nov-19 - Nov-19	0	1	3M
			Nov-29 - Nov-29	0	1	3M
			Dec 09 - Dec 09	0	1	3M
			Dec 19 - Dec 19	0	1	6H
			Dec 29 - Dec 29	0	1	6H
			Jan-09 - Jan-09	0	1	6G
			Jan-19 - Jan-19	0	1	6G
			Jan-29 - Jan-29	0	1	6G
			Feb-08 - Feb-08	0	1	6G
			Feb-18 - Feb-18	0	1	6G
			Feb-28 - Feb-28	0	1	6H
			Mar-09 - Mar-09	0	1	6G
			Mar-19 - Mar-19	0	1	6G
			Mar-29 - Mar-29	0	1	6G
			Apr-08 - Apr-08	0	1	6G
			Apr-18 - Apr-18	0	1	6G
			Apr-28 - Apr-28	0	1	6H
			May-08 - May-08	0	1	6H
			May-18 - May-18	0	1	6H
			May-28 - May-28	0	1	6H
			Jun-07 - Jun-07	0	1	6H
			Jun-17 - Jun-17	0	1	6H
			Jun-27 - Jun-27	0	1	6H
			Jul-07 - Jul-07	0	1	6H
			Jul-17 - Jul-17	0	1	6H
			Jul-27 - Jul-27	0	1	6H
			Aug-06 - Aug-06	0	1	6H
			Aug-16 - Aug-16	0	1	6H
			Aug-26 - Aug-26	0	1	6H

			Sep-05 - Sep-05	0	1	6H
			Sep-15 - Sep-15	0	1	6H
			Sep-25 - Sep-25	0	1	6H
			Oct-05 - Oct-05	0	1	6H
			Oct-15 - Oct-15	0	1	6H
			Oct-25 - Oct-25	0	1	6H
			Nov-04 - Nov-04	0	1	6H
			Nov-14 - Nov-14	0	1	6H
			Nov-24 - Nov-24	0	1	6H
			Jan-07 - Jan-07	0	1	6H
			Jan-17 - Jan-17	0	1	6H
			Jan-27 - Jan-27	0	1	6H
			Feb-06 - Feb-06	0	1	6H
			Feb-16 - Feb-16	0	1	6H
			Feb-26 - Feb-26	0	1	6H
			Mar-07 - Mar-07	0	1	6H
			Mar-17 - Mar-17	0	1	6H
			Mar-27 - Mar-27	0	1	6H
			Apr-06 - Apr-06	0	1	6H
			Apr-16 - Apr-16	0	1	6H
			Apr-26 - Apr-26	0	1	6H
			May-06 - May-06	0	1	6H
			May-16 - May-16	0	1	6H
			May-26 - May-26	0	1	6H
			Jun-05 - Jun-05	0	1	6H
			Jun-15 - Jun-15	0	1	6H
			Jun-25 - Jun-25	0	1	6H
			Jun-08 - Jun-08	0	1	3K
			Jun-18 - Jun-18	0	1	3K
			Jan-05 - Jan-05	0	1	3N
			Jan-15 - Jan-15	0	1	3N
			Jan-25 - Jan-25	0	1	3N
			Feb-04 - Feb-04	0	1	3N
			Feb-14 - Feb-14	0	1	3N
			Feb-24 - Feb-24	0	1	3N
			Mar-05 - Mar-05	0	1	3N
			Mar-15 - Mar-15	0	1	3N
			Mar-25 - Mar-25	0	1	3O
			Apr-04 - Apr-04	0	1	3O
			Apr-14 - Apr-14	0	1	3O
			Apr-24 - Apr-24	0	1	3O
			May-04 - May-04	0	1	3O
			May-14 - May-14	0	1	4VS
			May-24 - May-24	0	1	4VS
			Jun-03 - Jun-03	0	1	4VS
			Jun-13 - Jun-13	0	1	4VS
			Jul-03 - Jul-03	0	1	4VS
			Jul-13 - Jul-13	0	1	4VS
			Jul-23 - Jul-23	0	1	4VS
			Aug-02 - Aug-02	0	1	4VS
			Aug-12 - Aug-12	0	1	4VS
			Aug-22 - Aug-22	0	1	4VS
			Sep-01 - Sep-01	0	1	4VS

			Sep-11 - Sep-11	0	1	4VS
			Sep-21 - Sep-21	0	1	6G
			Oct-01 - Oct-01	0	1	4VS
			Oct-11 - Oct-11	0	1	4VS
			Oct-21 - Oct-21	0	1	4VS
			Oct-31 - Oct-31	0	1	4VS
			Nov-10 - Nov-10	0	1	3O
			Nov-20 - Nov-20	0	1	3N
			Nov-30 - Nov-30	0	1	3N
			Dec 10 - Dec 10	0	1	3N
			Dec 20 - Dec 20	0	1	3O
			Dec 30 - Dec 30	0	1	3N
			Sep-03 - Sep-03	0	1	6C
			Sep-13 - Sep-13	0	1	6C
			Sep-23 - Sep-23	0	1	6D
			Oct-03 - Oct-03	0	1	6D
			Oct-13 - Oct-13	0	1	5ZE
			Oct-23 - Oct-23	0	1	5ZE
			Nov-02 - Nov-02	0	1	6D
			Nov-12 - Nov-12	0	1	6D
			Nov-22 - Nov-22	0	1	6E
			Dec 02 - Dec 02	0	1	4W
			Dec 12 - Dec 12	0	1	4W
			Dec 22 - Dec 22	0	1	4VS
			Jan-06 - Jan-06	0	1	1F
			Jan-04 - Jan-04	0	1	1E
			Jan-14 - Jan-14	0	1	1E
			Jan-24 - Jan-24	0	1	1E
			Feb-03 - Feb-03	0	1	1E
			Feb-13 - Feb-13	0	1	1E
			Feb-23 - Feb-23	0	1	1E
			Mar-04 - Mar-04	0	1	1E
			Mar-14 - Mar-14	0	1	1E
			Mar-24 - Mar-24	0	1	1D
			Apr-03 - Apr-03	0	1	1E
			Apr-13 - Apr-13	0	1	1E
			Apr-23 - Apr-23	0	1	1E
			May-03 - May-03	0	1	1E
			May-13 - May-13	0	1	1E
			May-23 - May-23	0	1	1E
			Jun-02 - Jun-02	0	1	2G
			Jun-12 - Jun-12	0	1	2G
			Jun-22 - Jun-22	0	1	2G
			Jul-02 - Jul-02	0	1	2G
			Jul-12 - Jul-12	0	1	2H
			Jul-22 - Jul-22	0	1	2H
			Aug-01 - Aug-01	0	1	2H
			Aug-11 - Aug-11	0	1	2H
			Aug-21 - Aug-21	0	1	2H
			Aug-31 - Aug-31	0	1	2J
			Sep-09 - Sep-09	0	1	2J
			Sep-20 - Sep-20	0	1	2J
			Mar-21 - Mar-21	0	1	4VS



			Mar-31 - Mar-31	0	1	4VS
			Apr-10 - Apr-10	0	1	4VS
			Apr-20 - Apr-20	0	1	4VS
			Apr-30 - Apr-30	0	1	4VS
			May-10 - May-10	0	1	4VS
			Jan-04 - Jan-04	0	1	4VS
			Jan-14 - Jan-14	0	1	4VS
			Jan-24 - Jan-24	0	1	6G
			Feb-03 - Feb-03	0	1	3N
			Feb-14 - Feb-14	0	1	6H
			Mar-05 - Mar-05	0	1	3M
			Mar-15 - Mar-15	0	1	3M
			Mar-25 - Mar-25	0	1	6H
			Apr-05 - Apr-05	0	1	6H
			Apr-15 - Apr-15	0	1	6H
			Apr-04 - Apr-04	0	1	6G
			Jul-13 - Jul-13	0	1	6G
			Jul-23 - Jul-23	0	1	6G
			Jan-13 - Jan-13	0	1	3PS
			Feb-12 - Feb-12	0	1	4VS
			Feb-22 - Feb-22	0	1	4VS
			Mar-03 - Mar-03	0	1	4W
			Apr-02 - Apr-02	0	1	4W
			Apr-22 - Apr-22	0	1	4W
			Jun-11 - Jun-11	0	1	4W
			Jun-21 - Jun-21	0	1	4W
			Jul-01 - Jul-01	0	1	4W
			Jul-21 - Jul-21	0	1	4VS
			Jul-31 - Jul-31	0	1	4VS
			Aug-10 - Aug-10	0	1	4VS
			Aug-20 - Aug-20	0	1	4VS
			Sep-09 - Sep-09	0	1	4VS
			Oct-09 - Oct-09	0	1	6G
			Oct-29 - Oct-29	0	1	6G
			Nov-08 - Nov-08	0	1	4VS
			Nov-18 - Nov-18	0	1	4VS
			Dec 08 - Dec 08	0	1	4VS
			Dec 28 - Dec 28	0	1	4VS
			Jan-04 - Jan-04	0	1	2H
			Jan-14 - Jan-14	0	1	2H
			Jan-24 - Jan-24	0	1	2J
			Feb-03 - Feb-03	0	1	2J
			Feb-13 - Feb-13	0	1	2J
			Dec 19 - Dec 19	0	1	1F
			Dec 29 - Dec 29	0	1	1F
			Feb-03 - Feb-03	0	1	6C
			Feb-13 - Feb-13	0	1	6C
			Feb-23 - Feb-23	0	1	6D
			Mar-04 - Mar-04	0	1	6D
			Mar-14 - Mar-14	0	1	6D
			Mar-24 - Mar-24	0	1	6D
			Apr-03 - Apr-03	0	1	6D
			Apr-13 - Apr-13	0	1	6D

			Apr-23 - Apr-23	0	1	6D
			May-03 - May-03	0	1	6E
			May-13 - May-13	0	1	6D
			May-23 - May-23	0	1	6D
			Jun-02 - Jun-02	0	1	6D
			Jun-12 - Jun-12	0	1	6D
			Jun-22 - Jun-22	0	1	6D
			Jul-02 - Jul-02	0	1	6D
			Jul-12 - Jul-12	0	1	6D
			Jul-22 - Jul-22	0	1	6E
			Aug-01 - Aug-01	0	1	6E
			Aug-21 - Aug-21	0	1	6E
			Sep-10 - Sep-10	0	1	6F
			Sep-20 - Sep-20	0	1	6F
			Sep-30 - Sep-30	0	1	6F
			Oct-10 - Oct-10	0	1	6F
			Oct-20 - Oct-20	0	1	6F
			Oct-30 - Oct-30	0	1	6F
			Nov-09 - Nov-09	0	1	4VS
			Nov-19 - Nov-19	0	1	6G
			Nov-29 - Nov-29	0	1	6G
			Dec 09 - Dec 09	0	1	4VS
			Dec 19 - Dec 19	0	1	4VS
			Dec 29 - Dec 29	0	1	4VS
			Jan-04 - Jan-04	0	1	6E
			Jan-14 - Jan-14	0	1	6E
			Jan-24 - Jan-24	0	1	6E
			Feb-03 - Feb-03	0	1	6E
			Feb-13 - Feb-13	0	1	6E
			Feb-23 - Feb-23	0	1	6E
			Mar-04 - Mar-04	0	1	6E
			Mar-14 - Mar-14	0	1	6E
			Mar-24 - Mar-24	0	1	6E
			Apr-03 - Apr-03	0	1	6E
			Apr-13 - Apr-13	0	1	6E
			May-23 - May-23	0	1	6E
			Jun-02 - Jun-02	0	1	6E
			Jan-03 - Jan-03	0	1	6D
			Jan-13 - Jan-13	0	1	6E
			Jan-23 - Jan-23	0	1	6E
			Feb-02 - Feb-02	0	1	6F
			Feb-12 - Feb-12	0	1	4VS
			Feb-22 - Feb-22	0	1	6G
			Mar-03 - Mar-03	0	1	4VS
			Mar-13 - Mar-13	0	1	3N
			Mar-23 - Mar-23	0	1	3N
			Apr-02 - Apr-02	0	1	3N
			Apr-12 - Apr-12	0	1	4VS
			Apr-22 - Apr-22	0	1	4VS
			May-02 - May-02	0	1	4VS
			May-12 - May-12	0	1	4VS
			Jun-11 - Jun-11	0	1	3N
			Jun-21 - Jun-21	0	1	3M

			Jul-01 - Jul-01	0	1	3M
			Jul-11 - Jul-11	0	1	3M
			Jul-21 - Jul-21	0	1	3M
			Jul-31 - Jul-31	0	1	3M
			Aug-10 - Aug-10	0	1	3M
			Aug-20 - Aug-20	0	1	3M
			Aug-30 - Aug-30	0	1	3M
			Sep-09 - Sep-09	0	1	3M
			Sep-19 - Sep-19	0	1	3M
			Oct-19 - Oct-19	0	1	3M
			Oct-29 - Oct-29	0	1	3M
			Nov-08 - Nov-08	0	1	3M
			Nov-18 - Nov-18	0	1	3M
			Nov-28 - Nov-28	0	1	3M
			Dec 08 - Dec 08	0	1	3M
			Dec 18 - Dec 18	0	1	3M
			Jan-05 - Jan-05	0	1	6G
			Mar-25 - Mar-25	0	1	6G
			Apr-04 - Apr-04	0	1	6F
			Apr-14 - Apr-14	0	1	6F
			Apr-24 - Apr-24	0	1	6F
			May-04 - May-04	0	1	6F
			May-14 - May-14	0	1	6F
			May-24 - May-24	0	1	4VS
			Jun-13 - Jun-13	0	1	4W
			Jun-23 - Jun-23	0	1	4W
			Jul-03 - Jul-03	0	1	4W
			Jul-23 - Jul-23	0	1	6E
			Aug-02 - Aug-02	0	1	6E
			Aug-12 - Aug-12	0	1	6E
			Aug-22 - Aug-22	0	1	6E
			Sep-01 - Sep-01	0	1	6E
			Sep-21 - Sep-21	0	1	6E
			Oct-01 - Oct-01	0	1	6F
			Oct-11 - Oct-11	0	1	4VS
			Oct-31 - Oct-31	0	1	6F
			Nov-10 - Nov-10	0	1	6F
			Nov-20 - Nov-20	0	1	6F
			Nov-30 - Nov-30	0	1	6F
			Dec 10 - Dec 10	0	1	6F
			Dec 20 - Dec 20	0	1	6F
			Dec 30 - Dec 30	0	1	6F
			Jan-05 - Jan-05	0	1	6G
			Jan-15 - Jan-15	0	1	6G
			Jan-25 - Jan-25	0	1	6H
			Feb-04 - Feb-04	0	1	6H
			Feb-14 - Feb-14	0	1	6G
			Feb-24 - Feb-24	0	1	6G
			Mar-05 - Mar-05	0	1	6G
			Mar-15 - Mar-15	0	1	6G
			Mar-25 - Mar-25	0	1	6G
			Apr-04 - Apr-04	0	1	6G
			Apr-14 - Apr-14	0	1	6F

			Apr-24 - Apr-24	0	1	6F
			May-04 - May-04	0	1	6F
			May-14 - May-14	0	1	4VS
			Jun-03 - Jun-03	0	1	6F
			Jun-13 - Jun-13	0	1	6F
			Jun-23 - Jun-23	0	1	6F
			Jul-13 - Jul-13	0	1	6F
			Jul-23 - Jul-23	0	1	4VS
			Aug-02 - Aug-02	0	1	6G
			Aug-12 - Aug-12	0	1	6G
			Aug-22 - Aug-22	0	1	6G
			Sep-01 - Sep-01	0	1	6G
			Sep-11 - Sep-11	0	1	6G
			Sep-21 - Sep-21	0	1	6G
			Oct-01 - Oct-01	0	1	4VS
			Oct-11 - Oct-11	0	1	4VS
			Oct-21 - Oct-21	0	1	4VS
			Oct-31 - Oct-31	0	1	6F
			Nov-10 - Nov-10	0	1	4VS
			Nov-20 - Nov-20	0	1	3N
			Nov-30 - Nov-30	0	1	3N
			Dec 10 - Dec 10	0	1	3N
			Dec 20 - Dec 20	0	1	3N
			Dec 30 - Dec 30	0	1	6H
			Jul-11 - Jul-11	0	1	6C
			Jul-21 - Jul-21	0	1	6D
			Jul-31 - Jul-31	0	1	6D
			Aug-10 - Aug-10	0	1	6D
			Aug-20 - Aug-20	0	1	6E
			Aug-30 - Aug-30	0	1	6E
			Sep-09 - Sep-09	0	1	6E
			Sep-19 - Sep-19	0	1	6E
			Sep-29 - Sep-29	0	1	6E
			Oct-09 - Oct-09	0	1	4VS
			Oct-19 - Oct-19	0	1	4VS
			Oct-29 - Oct-29	0	1	4VS
			Nov-08 - Nov-08	0	1	4VS
			Nov-18 - Nov-18	0	1	3N
			Nov-28 - Nov-28	0	1	3N
			Dec 08 - Dec 08	0	1	3N
			Dec 18 - Dec 18	0	1	6H
			Dec 28 - Dec 28	0	1	3N
			Mar-22 - Mar-22	0	1	6B
			Apr-01 - Apr-01	0	1	6B
			Apr-11 - Apr-11	0	1	6B
			May-01 - May-01	0	1	6B
			May-11 - May-11	0	1	6D
			May-31 - May-31	0	1	6D
			Jun-10 - Jun-10	0	1	6E
			Jul-10 - Jul-10	0	1	5ZE
			Jul-20 - Jul-20	0	1	5ZE
			Aug-09 - Aug-09	0	1	5ZE
			Aug-19 - Aug-19	0	1	5ZE

			Aug-29 - Aug-29	0	1	5ZE
			Sep-18 - Sep-18	0	1	6B
			Sep-28 - Sep-28	0	1	6B
			Oct-08 - Oct-08	0	1	5ZW
			Oct-18 - Oct-18	0	1	6B
			Oct-28 - Oct-28	0	1	6B
			Nov-07 - Nov-07	0	1	6B
			Nov-17 - Nov-17	0	1	6C
			Nov-27 - Nov-27	0	1	6C
			Dec 07 - Dec 07	0	1	6B
			Dec 17 - Dec 17	0	1	6D
			Dec 27 - Dec 27	0	1	6C
			Jun-04 - Jun-04	0	1	1F
			Jun-14 - Jun-14	0	1	1F
			Jun-24 - Jun-24	0	1	1F
			Jul-04 - Jul-04	0	1	1F
			Jul-14 - Jul-14	0	1	1F
			Jul-24 - Jul-24	0	1	1F
			Aug-03 - Aug-03	0	1	1F
			Aug-13 - Aug-13	0	1	1F
			Aug-23 - Aug-23	0	1	1F
			Sep-02 - Sep-02	0	1	1F
			Sep-12 - Sep-12	0	1	1F
			Sep-22 - Sep-22	0	1	1F
			Oct-02 - Oct-02	0	1	1F
			Oct-12 - Oct-12	0	1	1F
			Oct-22 - Oct-22	0	1	1F
			Nov-01 - Nov-01	0	1	1F
			Nov-11 - Nov-11	0	1	1F
			Nov-21 - Nov-21	0	1	1F
			Dec 01 - Dec 01	0	1	1F
			Dec 11 - Dec 11	0	1	1F
			Dec 21 - Dec 21	0	1	1F
			Dec 31 - Dec 31	0	1	1F
			Jun-05 - Jun-05	0	1	1E
			Jun-15 - Jun-15	0	1	1E
			Jun-25 - Jun-25	0	1	1F
			Jul-05 - Jul-05	0	1	1F
			Jul-15 - Jul-15	0	1	1F
			Jul-26 - Jul-26	0	1	1F
			Aug-04 - Aug-04	0	1	1E
			Aug-14 - Aug-14	0	1	2G
			Aug-24 - Aug-24	0	1	2G
			Sep-03 - Sep-03	0	1	2G
			Sep-13 - Sep-13	0	1	2G
			Sep-23 - Sep-23	0	1	2G
			Oct-03 - Oct-03	0	1	2G
			Oct-13 - Oct-13	0	1	2H
			Oct-23 - Oct-23	0	1	2H
			Nov-02 - Nov-02	0	1	2H
			Nov-12 - Nov-12	0	1	2H
			Nov-22 - Nov-22	0	1	2H
			Dec 02 - Dec 02	0	1	2J

			Dec 12 - Dec 12	0	1	2J
			Dec 22 - Dec 22	0	1	2J
			May-11 - May-11	0	1	3PS
			May-21 - May-21	0	1	3PS
			May-31 - May-31	0	1	3PS
			Jun-10 - Jun-10	0	1	3PS
			Jun-20 - Jun-20	0	1	3PS
			Jun-30 - Jun-30	0	1	3O
			Jul-10 - Jul-10	0	1	3O
			Jul-20 - Jul-20	0	1	3O
			Jul-30 - Jul-30	0	1	3O
			Aug-09 - Aug-09	0	1	3O
			Aug-19 - Aug-19	0	1	3O
			Aug-29 - Aug-29	0	1	3PS
			Sep-08 - Sep-08	0	1	4VS
			Sep-18 - Sep-18	0	1	4VS
			Sep-28 - Sep-28	0	1	3PS
			Oct-08 - Oct-08	0	1	4VS
			Oct-18 - Oct-18	0	1	4VS
			Oct-28 - Oct-28	0	1	4VS
			Nov-07 - Nov-07	0	1	4VS
			Nov-17 - Nov-17	0	1	4VS
			Nov-27 - Nov-27	0	1	4VS
			Dec 07 - Dec 07	0	1	4VS
			Dec 17 - Dec 17	0	1	4VS
			Dec 27 - Dec 27	0	1	4VS
			May-01 - May-01	0	1	4X
			May-11 - May-11	0	1	4X
			May-21 - May-21	0	1	4X
			May-31 - May-31	0	1	4X
			Jun-10 - Jun-10	0	1	4X
			Jun-20 - Jun-20	0	1	4X
			Jun-30 - Jun-30	0	1	4X
			Jul-10 - Jul-10	0	1	4X
			Jul-20 - Jul-20	0	1	5ZE
			Jul-30 - Jul-30	0	1	5ZE
			Aug-09 - Aug-09	0	1	5ZE
			Aug-19 - Aug-19	0	1	5ZE
			Aug-29 - Aug-29	0	1	5ZE
			Nov-07 - Nov-07	0	1	4W
			Nov-17 - Nov-17	0	1	4W
			Nov-27 - Nov-27	0	1	4X
			Dec 07 - Dec 07	0	1	4X
			Dec 17 - Dec 17	0	1	4X
			Dec 27 - Dec 27	0	1	4X
			Jun-01 - Jun-01	0	1	1F
			Jun-11 - Jun-11	0	1	2G
			Jun-21 - Jun-21	0	1	2H
			Jul-01 - Jul-01	0	1	2H
			Jul-11 - Jul-11	0	1	2H
			Jul-21 - Jul-21	0	1	2G
			Jul-31 - Jul-31	0	1	2G
			Aug-10 - Aug-10	0	1	2G

			Aug-20 - Aug-20	0	1	1F
			Aug-30 - Aug-30	0	1	1F
			Sep-09 - Sep-09	0	1	1F
			Sep-19 - Sep-19	0	1	1F
			Sep-29 - Sep-29	0	1	1F
			Oct-09 - Oct-09	0	1	1F
			Oct-19 - Oct-19	0	1	1F
			Oct-29 - Oct-29	0	1	1F
			Nov-08 - Nov-08	0	1	1F
			Nov-18 - Nov-18	0	1	1F
			Nov-28 - Nov-28	0	1	1F
			Dec 08 - Dec 08	0	1	2H
			Dec 18 - Dec 18	0	1	2H
			Dec 28 - Dec 28	0	1	2H
			May-31 - May-31	0	1	2H
			Jun-10 - Jun-10	0	1	2H
			Jun-20 - Jun-20	0	1	2H
			Jun-30 - Jun-30	0	1	2H
			Jul-10 - Jul-10	0	1	2G
			Jul-20 - Jul-20	0	1	2G
			Jul-30 - Jul-30	0	1	2G
			Aug-09 - Aug-09	0	1	2G
			Aug-19 - Aug-19	0	1	2G
			Aug-29 - Aug-29	0	1	2G
			Sep-08 - Sep-08	0	1	2G
			Sep-18 - Sep-18	0	1	2G
			Sep-28 - Sep-28	0	1	2G
			Oct-08 - Oct-08	0	1	2H
			Oct-18 - Oct-18	0	1	2H
			Oct-28 - Oct-28	0	1	2H
			Nov-07 - Nov-07	0	1	2H
			Nov-17 - Nov-17	0	1	2H
			Nov-27 - Nov-27	0	1	2H
			Dec 07 - Dec 07	0	1	2G
			Dec 17 - Dec 17	0	1	2G
			Dec 27 - Dec 27	0	1	2G
			Jun-06 - Jun-06	0	1	1F
			Jun-16 - Jun-16	0	1	1F
			Jun-26 - Jun-26	0	1	1F
			Jul-06 - Jul-06	0	1	1F
			Jul-16 - Jul-16	0	1	1F
			Jul-26 - Jul-26	0	1	1F
			Aug-05 - Aug-05	0	1	1F
			Aug-15 - Aug-15	0	1	1F
			Aug-25 - Aug-25	0	1	1F
			Sep-04 - Sep-04	0	1	1F
			Sep-14 - Sep-14	0	1	1F
			Sep-24 - Sep-24	0	1	1F
			Oct-04 - Oct-04	0	1	1F
			Oct-14 - Oct-14	0	1	1F
			Oct-24 - Oct-24	0	1	1F
			Nov-03 - Nov-03	0	1	1F
			Nov-13 - Nov-13	0	1	1F

			Nov-23 - Nov-23	0	1	1F
			Dec 03 - Dec 03	0	1	1F
			Dec 13 - Dec 13	0	1	1F
			Dec 23 - Dec 23	0	1	1F
			Jun-08 - Jun-08	0	1	3K
			Jun-18 - Jun-18	0	1	3K
			Jun-28 - Jun-28	0	1	3K
			Jul-08 - Jul-08	0	1	3K
			Jul-18 - Jul-18	0	1	3K
			Jul-28 - Jul-28	0	1	3K
			Aug-07 - Aug-07	0	1	2J
			Aug-17 - Aug-17	0	1	2J
			Aug-27 - Aug-27	0	1	2J
			Sep-06 - Sep-06	0	1	2J
			Sep-15 - Sep-15	0	1	2J
			Sep-26 - Sep-26	0	1	2J
			Oct-06 - Oct-06	0	1	2J
			Oct-16 - Oct-16	0	1	1F
			Oct-26 - Oct-26	0	1	2J
			Nov-05 - Nov-05	0	1	2J
			Nov-15 - Nov-15	0	1	2J
			Nov-25 - Nov-25	0	1	2J
			Dec 05 - Dec 05	0	1	3K
			Dec 15 - Dec 15	0	1	3K
			Dec 25 - Dec 25	0	1	3K
			Jun-04 - Jun-04	0	1	1F
			Jun-14 - Jun-14	0	1	1F
			Jun-24 - Jun-24	0	1	1F
			Jul-04 - Jul-04	0	1	1F
			Jul-14 - Jul-14	0	1	1F
			Jul-24 - Jul-24	0	1	1F
			Aug-03 - Aug-03	0	1	1F
			Aug-13 - Aug-13	0	1	1F
			Aug-23 - Aug-23	0	1	1F
			Sep-02 - Sep-02	0	1	1F
			Sep-12 - Sep-12	0	1	1F
			Sep-22 - Sep-22	0	1	1F
			Oct-02 - Oct-02	0	1	1F
			Oct-12 - Oct-12	0	1	1F
			Oct-22 - Oct-22	0	1	1F
			Nov-01 - Nov-01	0	1	1F
			Nov-11 - Nov-11	0	1	2H
			Nov-21 - Nov-21	0	1	2H
			Dec 01 - Dec 01	0	1	1F
			Dec 11 - Dec 11	0	1	1F
			Dec 21 - Dec 21	0	1	1F
			Dec 31 - Dec 31	0	1	1F
			Jun-08 - Jun-08	0	1	3K
			Jun-18 - Jun-18	0	1	3L
			Jun-28 - Jun-28	0	1	3M
			Jul-08 - Jul-08	0	1	3M
			Jul-18 - Jul-18	0	1	3M
			Jul-28 - Jul-28	0	1	3M



			Aug-07 - Aug-07	0	1	3M
			Aug-17 - Aug-17	0	1	3M
			Aug-27 - Aug-27	0	1	3M
			Sep-06 - Sep-06	0	1	3N
			Sep-16 - Sep-16	0	1	3N
			Sep-26 - Sep-26	0	1	3N
			Oct-06 - Oct-06	0	1	3N
			Oct-16 - Oct-16	0	1	3N
			Oct-26 - Oct-26	0	1	3N
			Nov-05 - Nov-05	0	1	3M
			Nov-15 - Nov-15	0	1	3M
			Nov-25 - Nov-25	0	1	3M
			Dec 05 - Dec 05	0	1	3M
			Dec 15 - Dec 15	0	1	3M
			Dec 25 - Dec 25	0	1	3M
			Nov-02 - Nov-02	0	1	4VS
			Nov-12 - Nov-12	0	1	4VS
			Nov-22 - Nov-22	0	1	4VS
			Dec 02 - Dec 02	0	1	4VS
			Dec 12 - Dec 12	0	1	4VS
			Dec 22 - Dec 22	0	1	4VS
			Dec 05 - Dec 05	0	1	3M
			Dec 15 - Dec 15	0	1	3M
			Dec 25 - Dec 25	0	1	3M
			Jun-07 - Jun-07	0	1	1F
			Jun-17 - Jun-17	0	1	1F
			Jun-27 - Jun-27	0	1	1F
			Jul-07 - Jul-07	0	1	2J
			Jul-17 - Jul-17	0	1	2J
			Jul-27 - Jul-27	0	1	1F
			Aug-06 - Aug-06	0	1	1F
			Aug-16 - Aug-16	0	1	1F
			Aug-26 - Aug-26	0	1	1F
			Sep-05 - Sep-05	0	1	2J
			Sep-15 - Sep-15	0	1	2J
			Sep-25 - Sep-25	0	1	2J
			Oct-05 - Oct-05	0	1	2J
			Oct-15 - Oct-15	0	1	2J
			Oct-25 - Oct-25	0	1	2J
			Nov-04 - Nov-04	0	1	2J
			Nov-14 - Nov-14	0	1	2J
			Nov-24 - Nov-24	0	1	2J
			Dec 04 - Dec 04	0	1	2J
			Dec 14 - Dec 14	0	1	2J
			Dec 24 - Dec 24	0	1	2J
			Jul-12 - Jul-12	0	1	6C
			Jul-22 - Jul-22	0	1	6D
			Aug-11 - Aug-11	0	1	4X
			Aug-21 - Aug-21	0	1	4X
			Aug-31 - Aug-31	0	1	4X
			Sep-10 - Sep-10	0	1	4X
			Sep-20 - Sep-20	0	1	4W
			Sep-30 - Sep-30	0	1	4VS

			Oct-10 - Oct-10	0	1	4VS
			Oct-20 - Oct-20	0	1	4VS
			Oct-30 - Oct-30	0	1	4VS
			Nov-09 - Nov-09	0	1	4VS
			Nov-19 - Nov-19	0	1	4VS
			Nov-29 - Nov-29	0	1	4VS
			Dec 09 - Dec 09	0	1	4VS
			Dec 19 - Dec 19	0	1	4W
			Dec 29 - Dec 29	0	1	4W
			Sep-12 - Sep-12	0	1	2H
			Sep-22 - Sep-22	0	1	2H
			Oct-02 - Oct-02	0	1	2H
			Oct-12 - Oct-12	0	1	2H
			Oct-22 - Oct-22	0	1	2J
			Nov-01 - Nov-01	0	1	2J
			Nov-11 - Nov-11	0	1	2J
			Nov-21 - Nov-21	0	1	2J
			Dec 01 - Dec 01	0	1	3K
			Dec 11 - Dec 11	0	1	3K
			Dec 21 - Dec 21	0	1	3K
			Dec 31 - Dec 31	0	1	3K
			Aug-05 - Aug-05	0	1	6C
			Aug-15 - Aug-15	0	1	6C
			Sep-04 - Sep-04	0	1	6D
			Sep-24 - Sep-24	0	1	6E
			Oct-04 - Oct-04	0	1	6E
			Oct-14 - Oct-14	0	1	6E
			Oct-24 - Oct-24	0	1	6E
			Nov-03 - Nov-03	0	1	6E
			Nov-13 - Nov-13	0	1	6E
			Nov-23 - Nov-23	0	1	6E
			Dec 03 - Dec 03	0	1	6E
			Dec 13 - Dec 13	0	1	6E
			Dec 23 - Dec 23	0	1	6E
			Aug-06 - Aug-06	0	1	3K
			Aug-26 - Aug-26	0	1	3K
			Sep-15 - Sep-15	0	1	3L
			Sep-25 - Sep-25	0	1	3M
			Oct-05 - Oct-05	0	1	3K
			Oct-15 - Oct-15	0	1	3K
			Oct-25 - Oct-25	0	1	3K
			Nov-04 - Nov-04	0	1	3K
			Nov-14 - Nov-14	0	1	3K
			Nov-24 - Nov-24	0	1	3K
			Dec 04 - Dec 04	0	1	3K
			Dec 14 - Dec 14	0	1	3K
			Dec 24 - Dec 24	0	1	3K
			Nov-14 - Nov-14	0	1	3K
			Nov-21 - Nov-21	0	1	3K
			Nov-28 - Nov-28	0	1	3K
			Dec 12 - Dec 12	0	1	3K
			Dec 19 - Dec 19	0	1	3K
			Dec 26 - Dec 26	0	1	3K

			Nov-11 - Nov-11	0	1	2J
			Nov-18 - Nov-18	0	1	2J
			Nov-25 - Nov-25	0	1	2J
			Dec 02 - Dec 02	0	1	2J
			Dec 09 - Dec 09	0	1	3K
			Dec 16 - Dec 16	0	1	3K
			Dec 23 - Dec 23	0	1	3K
			Dec 30 - Dec 30	0	1	3K
			Nov-17 - Nov-17	0	1	1F
			Nov-24 - Nov-24	0	1	1F
			Dec 01 - Dec 01	0	1	1F
			Dec 08 - Dec 08	0	1	1F
			Dec 15 - Dec 15	0	1	1F
			Dec 22 - Dec 22	0	1	1F
			Dec 29 - Dec 29	0	1	1F
			Nov-17 - Nov-17	0	1	2H
			Nov-24 - Nov-24	0	1	2H
			Dec 01 - Dec 01	0	1	2H
			Dec 08 - Dec 08	0	1	2H
			Dec 15 - Dec 15	0	1	2H
			Dec 22 - Dec 22	0	1	2H
			Dec 29 - Dec 29	0	1	2H
			Jan-03 - Jan-03	0	1	6H
			Jan-13 - Jan-13	0	1	6H
			Jan-23 - Jan-23	0	1	6H
			Feb-02 - Feb-02	0	1	6H
			Feb-12 - Feb-12	0	1	6H
			Feb-22 - Feb-22	0	1	6H
			Mar-03 - Mar-03	0	1	6H
			Mar-13 - Mar-13	0	1	6H
			Mar-23 - Mar-23	0	1	6H
			Jan-10 - Jan-10	0	1	1F
			Jan-20 - Jan-20	0	1	1F
			Jan-30 - Jan-30	0	1	1F
			Feb-09 - Feb-09	0	1	1F
			Feb-19 - Feb-19	0	1	1F
			Feb-29 - Feb-29	0	1	1F
			Mar-10 - Mar-10	0	1	1F
			Mar-20 - Mar-20	0	1	1F
			Mar-30 - Mar-30	0	1	1F
			May-09 - May-09	0	1	1F
			May-19 - May-19	0	1	1F
			May-29 - May-29	0	1	1F
			Jun-08 - Jun-08	0	1	1F
			Jun-18 - Jun-18	0	1	1F
			Jun-28 - Jun-28	0	1	1F
			Jul-08 - Jul-08	0	1	1F
			Jul-18 - Jul-18	0	1	1F
			Jul-28 - Jul-28	0	1	1F
			Aug-07 - Aug-07	0	1	1F
			Aug-17 - Aug-17	0	1	1F
			Aug-27 - Aug-27	0	1	1F
			Sep-06 - Sep-06	0	1	1F

				Sep-16 - Sep-16	0	1	1F
				Sep-26 - Sep-26	0	1	2H
				Oct-06 - Oct-06	0	1	2H
				Oct-16 - Oct-16	0	1	2H
				Oct-26 - Oct-26	0	1	1F
				Nov-05 - Nov-05	0	1	2H
				Nov-15 - Nov-15	0	1	2H
				Nov-25 - Nov-25	0	1	2H
				Dec 15 - Dec 15	0	1	1F
				Dec 25 - Dec 25	0	1	1F
				May-28 - May-28	0	1	5ZW
				Jul-17 - Jul-17	0	1	1F
				Jul-27 - Jul-27	0	1	1F
				Aug-06 - Aug-06	0	1	1F
				Aug-16 - Aug-16	0	1	1F
				Aug-26 - Aug-26	0	1	1E
				Sep-05 - Sep-05	0	1	1E
				Sep-15 - Sep-15	0	1	1E
				Sep-24 - Sep-24	0	1	1D
				Oct-05 - Oct-05	0	1	1D
				Oct-14 - Oct-14	0	1	1D
				Oct-25 - Oct-25	0	1	1D
				Nov-03 - Nov-03	0	1	1D
				Nov-14 - Nov-14	0	1	1D
				Nov-24 - Nov-24	0	1	1D
				Dec 04 - Dec 04	0	1	1E
				Dec 14 - Dec 14	0	1	0B
				Dec 24 - Dec 24	0	1	0B
UNKNOWN/ I NCONNU	UNKNOW N/ IN	SHIP	04	Jan-14 - Feb-01	63	0	4W, 4X, 5ZE, 6A, 6B, 6C, 6D, 6E
				Feb-09 - Feb-19	44	0	3N, 3O, 4VS, 4W, 4X, 5ZE, 6B, 6C
				Mar-01 - Apr-02	76	81	3L, 3N, 3O, 3PS, 4R, 4S, 4T, 4V, 4W, 4X, 5Z
				Apr-07 - May-05	80	0	3M, 4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
				May-13 - Sep-16	459	89	0B, 2G, 2H, 2J, 3K, 3L, 3M, 3N, 3O, 3PS, 4R, 4S, 4T, 4V, 4W, 4X, 5Z, 5ZE, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H
				Sep-23 - Oct-04	37	26	3PS, 4VS, 4W, 4X, 6B, 6C
				Oct-12 - Oct-25	24	10	2J, 4VN, 4VS, 4W, 4X, 5Y, 5ZW
				Nov-01 - Dec 08	326	0	1F, 3K, 3L, 3M, 3N, 3O, 3PS, 4R, 4S, 4T, 4V, 4W, 4X, 5Z, 5ZE, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H
RICKERS GENOA	MARSHA LL I	V7FS3	04	Dec 07 - Dec 07	1	0	5ZE
ATLANTIC LINSEY	CANADA	VC4959	04	Jun-08 - Jun-17	35	0	3L, 3N, 3O
ENDEAVOR	USA	WAUW	04	Jan-02 - Jan-02	3	0	6D
				Feb-13 - Feb-17	9	0	6A, 6E, 6F, 6G, 6H
				Apr-03 - Apr-03	1	0	6H
				May-04 - May-05	3	0	6B, 6D, 6E
				May-11 - May-14	6	0	3M, 4VS, 6C, 6D, 6F
				Jun-13 - Jun-16	9	0	6D, 6E, 6F, 6H
				Jun-22 - Jun-26	7	0	3M, 3N, 4VS, 6C, 6D, 6E, 6F
				Sep-14 - Sep-17	6	0	6D, 6F, 6G, 6H
				Dec 10 - Dec 10	3	0	6D, 6E

ENTERPRIS E	USA	WAUY	04	Feb-18 - Feb-18	2	0	6G, 6H
				Apr-16 - Apr-18	7	0	6E, 6F, 6G, 6H
				May-14 - May-16	4	0	3M, 3O, 4W
				May-24 - May-26	4	0	3M, 4VS, 4W, 6E
				Jun-20 - Jun-23	9	0	4W, 5ZE, 6F, 6G, 6H
				Jun-29 - Jul-03	14	0	3M, 3N, 3O, 4VS, 4W, 6C, 6D, 6E
				Aug-01 - Aug-05	16	0	6B, 6D, 6E, 6F, 6G, 6H
				Sep-25 - Sep-29	7	0	3M, 3N, 4VS, 4W, 6C
				Oct-20 - Oct-24	14	0	4VS, 4W, 4X, 5ZE, 5ZW, 6F, 6G
				Dec 03 - Dec 05	10	0	5ZW, 6E, 6F, 6G, 6H
UNKNOWN/I NCONNU	USA	WCAH	04	Jun-27 - Jun-28	8	0	5ZE, 6D
DELAWARE BAY	USA	WMLG	04	Feb-25 - Feb-25	2	0	3M
				Mar-07 - Mar-09	4	0	6E, 6F, 6H
				Apr-06 - Apr-07	5	0	6G, 6H
				Apr-16 - Apr-18	9	0	3M, 3N, 4VS, 6D, 6E, 6F
				May-16 - May-18	10	0	6E, 6F, 6G, 6H
				May-25 - May-28	7	0	6D, 6E, 6F, 6G, 6H
				Jun-07 - Jun-07	1	0	3N
				Jun-28 - Jun-29	2	0	4VS, 4X
				Jul-09 - Jul-10	2	0	3N, 6F
				Aug-10 - Aug-12	6	0	3M, 3N, 4VS, 4W
				Aug-21 - Aug-22	5	0	6G, 6H
				Sep-26 - Sep-27	5	0	6E, 6F, 6G
				Oct-04 - Oct-08	14	0	6C, 6D, 6E, 6F, 6G, 6H
				Nov-06 - Nov-09	6	0	6E, 6F, 6G, 6H
				Nov-16 - Nov-19	10	0	6C, 6D, 6E, 6F, 6G, 6H
				Dec 12 - Dec 14	4	0	6F, 6H
				Dec 23 - Dec 24	5	0	4VS, 6E, 6F
SA AGULHAS	SOUTH AFRI	ZSAF	04	Jan-14 - Jan-14	3	0	6B

**Table 2: TRACKOB data received during 2004.**  
**Total = 1191 stations**

SHIP NAME	COUNTRY	CALL SIGN	CRUISE PERIOD	TRACKOB	NAFO SUBAREA
METEOR	GERMANY	DBBH 04	Mar-18 - Mar-19	72	6F
			Mar-25 - Mar-29	523	3M, 6H
CONTSHIP LONDON	LIBERIA	ELVX4 04	Feb-22 - Feb-27	67	3M, 3N, 3O, 4VS, 4W, 4X, 5Z E, 5ZW, 6A, 6B, 6C
		ELVX42 04	Feb-24 - Feb-24	1	4VS
CHARLES DARWIN	UK	GDLS 04	Aug-29 - Sep-14	528	2H, 2J, 3K, 3L

**Table 3: Delayed mode data received during 2004.**  
**Total = 7569 stations**

COUNTRY	CRUISE NUM	CRUISE PERIOD	BT	CTD	BOTTLE	NAFO SUBAREA
CANADA	181C04004	Feb-05 - Feb-17	0	34	88	4W, 5ZE
CANADA	181C04515	Jan-07 - Jan-14	1	41	0	3K
CANADA	181C04523	Apr-21 - May-01	3	69	0	3L, 3O, 3PS, 3PN
CANADA	181C04546	May-04 - May-13	5	59	0	3L, 3O, 3PS, 3PN
CANADA	181C04547	May-16 - May-28	4	97	0	3L, 3N, 3O
CANADA	181C04548	May-29 - Jun-11	18	70	1	3L, 3N
CANADA	181C04549	Jun-12 - Jun-27	5	127	2	3L, 3O, 3PS
CANADA	181C04550	Jul-06 - Jul-08	0	6	0	3L
CANADA	181C04551	Jul-11 - Jul-17	4	54	0	3L
CANADA	181C04552	Jul-21 - Aug-04	38	75	75	2J, 3K, 3L, 3M
CANADA	181C04553	Aug-07 - Aug-21	0	54	2	3K, 3L
CANADA	181C04557	Oct-30 - Nov-12	4	79	1	3L, 3N, 3O
CANADA	181C04558	Nov-13 - Nov-26	6	83	0	3L, 3N
CANADA	181C04559	Nov-27 - Dec 10	8	70	0	3L
CANADA	181C04587	Dec 12 - Dec 20	5	51	0	3L
CANADA	18AH04001	Jan-27 - Feb-01	15	0	0	4X, 5ZE, 5ZW, 6A, 6B, 6C
		Feb-11 - Feb-13	7	0	0	4X, 5ZE, 6B, 6C
CANADA	18AH04002	May-25 - May-28	11	0	0	4W, 4X
CANADA	18AH04003	May-31 - Jun-05	20	0	0	4X, 5ZE, 6A, 6B, 6C
CANADA	18AH04004	Aug-16 - Aug-19	12	0	0	4W, 4X
CANADA	18AH04005	Aug-24 - Sep-16	63	0	0	3L, 3M, 3N, 3O, 3PN, 4S , 4T, 4VN, 4VS, 4W
CANADA	18AH04006	Oct-14 - Oct-25	13	0	0	4VN, 4W, 4X
CANADA	18AH04007	Nov-08 - Nov-27	50	0	0	4X, 5ZE, 5ZW, 6A, 6B, 6C
CANADA	18AH04008	Nov-01 - Nov-04	13	0	0	4W, 4X

CANADA	18AV04002	Mar-05 - Mar-08	10	0	0	3K, 3L
		Mar-21 - Mar-25	9	0	0	3K, 3L, 4R
CANADA	18BG04012	May-06 - May-06	0	1	1	4T
		May-12 - May-12	0	1	1	4T
		May-20 - May-20	0	1	1	4T
		May-27 - May-27	0	1	1	4T
		Jun-10 - Jun-10	0	1	1	4T
		Jun-17 - Jun-22	0	2	2	4T
		Jun-29 - Jun-29	0	1	1	4T
		Jul-07 - Jul-07	0	1	1	4T
		Jul-21 - Jul-21	0	1	1	4T
		Jul-28 - Jul-28	0	1	1	4T
		Aug-06 - Aug-06	0	1	1	4T
		Aug-17 - Aug-17	0	1	1	4T
		Aug-25 - Aug-25	0	1	1	4T
		Sep-14 - Sep-14	0	1	1	4T
		Sep-23 - Sep-28	0	2	2	4T
		Oct-07 - Oct-07	0	1	1	4T
		Oct-25 - Oct-25	0	1	1	4T
		Nov-23 - Nov-23	0	1	0	4T
CANADA	18BW04020	Oct-02 - Oct-04	0	26	0	3PS
CANADA	18C804001	Jan-26 - Feb-01	22	0	0	4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
		Feb-11 - Feb-13	10	0	0	4X, 5ZE, 6B, 6C
CANADA	18C804002	Mar-30 - Apr-02	12	0	0	4W, 4X
CANADA	18C804003	Apr-22 - May-03	40	0	0	4X, 5ZE, 6B, 6C
CANADA	18C804004	May-26 - May-27	3	0	0	3L, 3M
		Jun-29 - Jun-30	2	0	0	3M, 3N
CANADA	18C804005	Nov-09 - Dec 07	68	0	0	3L, 3N, 3O, 3PS, 4T, 4V N, 4W
CANADA	18CN04006	Apr-17 - Apr-18	0	5	0	4T
CANADA	18CN04013	Apr-28 - Apr-30	0	6	0	4S
CANADA	18CN04023	May-28 - Jun-08	0	17	0	4S, 4T
CANADA	18CN04039	Jul-13 - Jul-23	0	7	0	4S
CANADA	18CN04047	Jul-02 - Jul-07	0	21	0	4T
CANADA	18CN04050	Oct-27 - Oct-28	0	6	0	4T
CANADA	18CN04051	Aug-03 - Aug-06	0	5	0	4S
CANADA	18CN04054	Aug-15 - Aug-15	0	13	0	4T
		Nov-10 - Nov-10	0	6	0	4T
CANADA	18CN04066	Oct-13 - Oct-17	0	19	0	4T
CANADA	18FN04001	Feb-09 - Feb-17	28	0	0	3L, 3N, 3O, 3PS, 4VS, 4W, 4X
CANADA	18FN04002	Mar-01 - Mar-09	20	0	0	3L, 3N, 3O, 3PS, 4VS, 4W
CANADA	18GC04001	Mar-01 - Mar-05	7	0	0	4X, 5Y, 5ZW
CANADA	18GC04002	Feb-24 - Feb-24	1	0	0	4W
CANADA	18GC04003	May-21 - May-21	2	0	0	4W
CANADA	18GC04004	May-26 - Jun-03	14	0	0	4W, 4X
		Jun-15 - Jun-18	9	0	0	4T, 4VN, 4W
CANADA	18GC04006	Aug-04 - Aug-11	14	0	0	3K, 3L, 4R, 4VN
		Aug-17 - Aug-17	2	0	0	3L
CANADA	18GC04007	Nov-02 - Nov-02	2	0	0	4X
CANADA	18GC04008	Nov-11 - Nov-19	16	0	0	6B, 6C

CANADA	18GC04009	Dec 01 - Dec 11	8	0	0	3L, 3PS, 4VN, 4W, 4X
CANADA	18GP04001	Feb-29 - Feb-29	0	2	2	4S, 4T
		Mar-14 - Mar-14	0	2	2	4S, 4T
CANADA	18GS04001	Feb-26 - Feb-26	2	0	0	4X
CANADA	18GS04002	Mar-06 - Mar-11	4	0	0	4X
CANADA	18GS04003	Mar-23 - Apr-02	18	0	0	4W, 4X
CANADA	18GS04004	Jun-15 - Jun-19	5	0	0	3PS, 3PN, 4R
CANADA	18GS04005	Aug-10 - Aug-17	8	0	0	3K, 3L, 3N, 3PS, 4VS
		Aug-26 - Aug-27	2	0	0	0B, 2G
		Sep-07 - Sep-07	1	0	0	4T
CANADA	18HE04003	Mar-08 - Mar-16	0	74	60	4R, 4S, 4T, 4VN
CANADA	18HL04001	Feb-16 - Feb-19	10	0	0	4W, 4X
CANADA	18HL04002	Jun-04 - Jun-12	27	0	0	3L, 3M, 3N, 3O, 3PS, 4V S, 4W
CANADA	18HL04003	Sep-07 - Sep-16	22	0	0	4W, 4X
CANADA	18HL04004	Aug-30 - Aug-31	4	0	0	4W, 4X
		Oct-04 - Oct-06	6	0	0	4W, 4X
CANADA	18HL04005	Nov-04 - Nov-25	34	0	0	4X, 5ZE, 5ZW, 6A, 6B, 6 C
CANADA	18HU04005	Apr-06 - Apr-06	0	1	1	4W
CANADA	18HU04009	Apr-18 - May-08	0	3	76	3O, 3PS, 4R, 4VN, 4VS, 4W, 4X
CANADA	18HU04016	May-16 - May-16	0	1	0	4W
CANADA	18HU04055	Oct-19 - Oct-19	0	1	0	4W
		Oct-29 - Oct-29	0	1	0	4W
CANADA	18HU04061	Nov-02 - Nov-15	0	72	71	4R, 4S, 4T, 4VN, 4W
CANADA	18HU04586	Nov-20 - Dec 05	16	131	67	3K, 3L, 3M, 3N, 3O
CANADA	18IS04001	Jan-26 - Jan-27	3	0	0	4W, 4X
CANADA	18KS04001	Mar-05 - Mar-08	6	0	0	4W, 4X
CANADA	18KS04002	May-05 - May-06	2	0	0	4W
CANADA	18KS04003	Jun-15 - Jun-17	2	0	0	4T, 4W
CANADA	18KS04004	Jul-26 - Jul-29	9	0	0	4VS, 4W, 4X
CANADA	18KS04005	Aug-04 - Aug-19	23	0	0	3L, 3PS, 4W, 4X
CANADA	18KS04006	Sep-22 - Sep-26	4	0	0	3PS
CANADA	18KS04007	Sep-28 - Oct-03	7	0	0	3PS
CANADA	18KS04008	Nov-01 - Nov-08	5	0	0	4X, 5Y, 5ZW
CANADA	18KS04009	Nov-23 - Nov-24	2	0	0	5ZW, 6B
		Dec 01 - Dec 01	1	0	0	3L
		Dec 09 - Dec 09	1	0	0	4W
CANADA	18MP04001	Jan-27 - Feb-01	11	0	0	4X, 5ZE, 6B, 6C
		Feb-11 - Feb-12	10	0	0	5ZE, 6B, 6C
CANADA	18MP04002	Mar-30 - Apr-01	12	0	0	4W, 4X, 5ZE
CANADA	18MP04003	Apr-20 - Apr-23	9	0	0	4W, 4X
CANADA	18MP04004	Apr-26 - May-03	19	0	0	3O, 4VS, 4W, 4X
		May-09 - May-11	9	0	0	3M
CANADA	18MP04005	Jun-04 - Jun-06	8	0	0	4X, 5ZE, 6B, 6C
		Jun-23 - Jun-23	2	0	0	5ZE, 6B
CANADA	18MP04006	Aug-10 - Sep-04	58	0	0	0A, 0B, 1E, 2G, 2H, 2J, 4R, 4S, 4T
CANADA	18OK04512	Jan-09 - Jan-10	0	7	0	3L
		Jan-17 - Jan-21	9	0	0	3L
CANADA	18OK04560	May-12 - May-15	4	1	0	3L
CANADA	18OK04561	May-18 - May-25	0	48	0	3L



CANADA	18OK04562	Jun-02 - Jun-17	0	12	0	3L
CANADA	18OK04563	Jun-22 - Jun-24	0	2	1	3L
CANADA	18OK04565	Jun-30 - Jul-08	0	26	0	3L
CANADA	18OK04566	Jul-12 - Jul-12	0	1	1	3L
CANADA	18OK04567	Jul-13 - Jul-22	0	73	0	3L
CANADA	18OK04569	Aug-03 - Aug-15	0	28	0	3L
CANADA	18OK04570	Aug-17 - Aug-25	0	7	1	3L, 3PS
CANADA	18OK04571	Sep-04 - Sep-13	3	25	0	3K
CANADA	18OK04572	Sep-17 - Sep-17	0	1	1	3L
CANADA	18OK04573	Sep-21 - Oct-04	0	27	0	3L
CANADA	18OK04574	Oct-04 - Oct-04	0	1	0	3L
CANADA	18OK04575	Oct-07 - Oct-20	0	27	0	3L
CANADA	18OK04579	Nov-16 - Nov-29	0	50	0	3L
		Dec 04 - Dec 07	1	1	0	3L
CANADA	18OP04001	Sep-01 - Sep-01	0	1	0	4T
CANADA	18PA04001	Jan-13 - Jan-13	0	3	0	4X
CANADA	18PA04002	Feb-17 - Feb-17	0	3	0	4X
CANADA	18PA04003	Mar-12 - Mar-12	0	3	0	4X
CANADA	18PA04004	Apr-15 - Apr-15	0	2	0	4X
		Apr-21 - Apr-21	0	1	0	4X
CANADA	18PA04005	May-14 - May-14	0	3	0	4X
CANADA	18PA04006	Jun-14 - Jun-14	0	3	0	4X
CANADA	18PA04007	Jul-15 - Jul-16	0	3	0	4X
CANADA	18PA04008	Aug-16 - Aug-16	0	3	0	4X
CANADA	18PA04009	Sep-15 - Sep-15	0	3	0	4X
CANADA	18PA04010	Oct-15 - Oct-15	0	3	0	4X
CANADA	18PA04011	Nov-16 - Nov-16	0	3	0	4X
CANADA	18PA04012	Dec 14 - Dec 14	0	3	0	4X
CANADA	18S104001	Jul-28 - Jul-28	1	0	0	4X
		Aug-05 - Aug-09	2	0	0	4VS, 4W
CANADA	18S604001	Jan-27 - Feb-01	17	0	0	4X, 5ZE, 5ZW, 6A, 6B, 6C
		Feb-11 - Feb-12	7	0	0	5ZE, 6B, 6C
CANADA	18S604002	May-11 - May-21	30	0	0	3L, 3N, 3O, 4VS, 4W
CANADA	18S604003	Jun-14 - Jun-23	13	0	0	3L, 3N, 3O, 4VS, 4W
CANADA	18S604004	Jun-28 - Jun-30	8	0	0	4W, 4X
CANADA	18S604005	Jul-02 - Jul-05	9	0	0	4W, 4X
CANADA	18S604006	Jul-21 - Jul-28	37	0	0	4X, 5ZE, 6B, 6C
CANADA	18S604007	Sep-24 - Oct-03	15	0	0	3L, 3M, 3O, 3PS, 4VS, 4W, 4X
		Oct-25 - Oct-25	2	0	0	3L
CANADA	18S604008	Nov-08 - Nov-18	41	0	0	4X, 5Y, 5ZW, 6A, 6B, 6C
		Nov-25 - Nov-27	6	0	0	5ZE, 6B, 6C
CANADA	18S904001	Dec 16 - Dec 16	0	1	0	4W
CANADA	18S904002	Feb-10 - Feb-10	0	1	0	4W
CANADA	18S904003	Mar-19 - Mar-19	0	1	0	4W
CANADA	18S904004	Aug-18 - Aug-18	0	1	0	4W
CANADA	18S904006	Sep-15 - Sep-15	0	1	0	4W
CANADA	18S904007	Nov-23 - Nov-23	0	1	0	4W
CANADA	18TL04021	Jun-08 - Jun-22	0	108	76	4R, 4S, 4T, 4VN
CANADA	18TL04033	Aug-16 - Sep-01	0	137	136	4R, 4S, 4T, 4VN
CANADA	18TL04474	Feb-04 - Feb-12	0	31	1	3K, 3L, 3O
CANADA	18TL04513	Jan-05 - Jan-21	1	95	2	3K, 3L, 3M, 3N

CANADA	18TL04514	Jan-23 - Feb-01	10	73	0	2J, 3K, 3L
CANADA	18TL04520	Apr-02 - Apr-10	0	25	2	3L
CANADA	18TL04522	Apr-10 - Apr-16	6	64	0	3L, 3PS
CANADA	18TL04524	Apr-17 - May-02	27	100	77	2J, 3K, 3L, 3M, 3N, 3O
CANADA	18TL04525	May-03 - May-08	1	2	2	3L, 3PS
CANADA	18TL04526	May-10 - May-29	66	54	3	3K, 3L
CANADA	18TL04529	Jul-05 - Jul-05	0	1	0	4W
CANADA	18TL04530	Jul-18 - Jul-30	0	2	113	4VN, 4VS, 4W
CANADA	18TL04534	Sep-07 - Sep-28	0	1	171	4T, 4VN
CANADA	18TL04536	Oct-07 - Oct-12	3	22	0	2H, 3L
CANADA	18TL04537	Oct-16 - Oct-28	22	72	0	2G, 2H, 2J, 3L
CANADA	18TL04538	Nov-06 - Nov-11	5	41	0	2J
CANADA	18TL04539	Nov-13 - Nov-25	10	83	0	2J, 3K, 3L
CANADA	18TL04540	Nov-29 - Dec 02	0	21	0	3K, 3L
		Dec 07 - Dec 09	0	17	0	3K, 3L
CANADA	18TL04541	Dec 11 - Dec 17	1	47	1	3K, 3L
CANADA	18TR04001	Jan-14 - Jan-24	22	0	0	4W, 4X, 6B, 6C, 6D, 6E, 6F, 6G, 6H
		Jul-19 - Jul-22	5	0	0	3L, 3M, 3PS, 4VS
CANADA	18TR04002	Nov-01 - Nov-04	7	0	0	4W, 4X
CANADA	18TR04003	Nov-07 - Nov-27	69	0	0	4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
CANADA	18VA04001	May-28 - May-28	0	1	0	4W
CANADA	18VA04002	May-14 - May-14	0	1	0	4T
CANADA	18VA04003	May-26 - May-26	0	1	0	4T
CANADA	18VA04004	Jun-18 - Jun-18	0	1	0	4T
CANADA	18VA04005	Mar-25 - Mar-25	0	0	1	3L
CANADA	18VA04012	Mar-23 - Mar-23	0	7	0	2J
CANADA	18VA04013	Jun-06 - Jun-09	0	13	0	2J
CANADA	18VA04014	Aug-11 - Aug-11	0	12	0	2J
CANADA	18VA04015	Aug-23 - Aug-26	0	11	0	2J
CANADA	18VA04016	Oct-25 - Oct-25	0	10	0	2J
CANADA	18VA04025	Jun-08 - Jun-17	35	0	0	3L, 3N, 3O
CANADA	18VA04034	Jul-27 - Aug-06	0	41	0	4T
CANADA	18VA04035	Jul-16 - Jul-16	0	1	0	4T
		Jul-26 - Jul-29	0	8	0	4T
		Aug-04 - Aug-06	0	5	0	4T
CANADA	18VA04043	Mar-25 - Mar-25	0	1	0	3L
CANADA	18VA04049	Jul-15 - Jul-17	0	38	0	4R
CANADA	18VA04900	Mar-02 - Mar-02	0	1	0	3L
CANADA	18VQ04001	Mar-16 - Mar-17	8	0	0	4W, 4X
CANADA	18VQ04002	Mar-24 - Mar-25	3	0	0	4W, 4X
CANADA	18VQ04003	Apr-08 - Apr-30	43	0	0	4W, 4X, 5ZE, 5ZW, 6A, 6B, 6C
CANADA	18VQ04004	May-31 - Jun-05	16	0	0	4X, 5ZE, 5ZW, 6A, 6B, 6C
CANADA	18VQ04005	Sep-08 - Sep-10	10	0	0	4W, 6E
		Sep-25 - Sep-30	19	0	0	6B, 6C
		Oct-06 - Oct-06	4	0	0	6B
		Oct-12 - Oct-20	13	0	0	4VN, 4VS, 4W, 4X, 5Y, 5ZW, 6B
		Nov-01 - Nov-02	3	0	0	4S, 4T, 4VN
		Nov-08 - Nov-24	44	0	0	4X, 5ZE, 5ZW, 6B, 6C

		Nov-30 - Dec 08	10	0	0	1F, 3K, 3L, 3PS, 4VS, 4W
CANADA	18WR04001	Jun-04 - Jun-09	5	0	0	4X
CANADA	18WR04002	Jun-14 - Jun-15	2	0	0	4X
CANADA	18WR04003	Jul-06 - Jul-14	13	0	0	3PS, 4VN, 4VS, 4W
	29VE04001	Jun-25 - Jun-25	0	5	0	3L, 3M
		Jul-09 - Aug-02	0	108	0	3M
	316G04004	Mar-02 - Mar-09	0	15	0	5ZW, 6A, 6B
	316G04005	Mar-23 - Mar-25	0	36	0	5Y, 5ZE, 5ZW
	316G04012	Aug-25 - Aug-30	0	34	0	6A
	316G04013	Sep-09 - Sep-14	0	30	0	4X, 5Y, 5ZE, 5ZW
		Sep-20 - Sep-29	0	42	0	4X, 5Y, 5ZE
		Oct-07 - Oct-11	0	25	0	4X, 5Y, 5ZE
	316G04015	Nov-02 - Nov-03	0	2	0	5ZE
		Nov-09 - Nov-11	0	2	0	5ZE
	31A404001	Jan-25 - Jan-27	0	10	0	4X, 5Y, 5ZE
	31A404002	Feb-04 - Feb-12	0	58	0	6A, 6B, 6C
		Feb-18 - Feb-28	0	79	0	5ZE, 5ZW, 6A, 6B
	31A404003	Mar-03 - Mar-09	0	57	0	6B, 6C
		Mar-16 - Apr-08	0	205	0	4X, 5Y, 5ZE, 5ZW, 6A, 6B
		Apr-14 - Apr-22	0	66	0	4X, 5Y, 5ZW
	31A404004	Apr-28 - May-19	0	112	0	5ZE
	31A404005	May-25 - Jun-08	0	157	0	4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
	31A404006	Jul-07 - Jul-22	0	113	0	5ZE, 5ZW, 6A, 6B, 6C
		Jul-27 - Aug-05	0	65	0	5ZE
	31A404008	Aug-17 - Aug-31	0	163	0	4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
	31A404009	Sep-11 - Oct-27	0	324	0	4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
	31A404010	Nov-02 - Nov-18	0	158	0	4X, 5Y, 5ZE, 5ZW, 6A, 6B, 6C
	33EN04095	Jun-24 - Jul-11	0	32	0	4X, 5ZE, 5ZW, 6A, 6B, 6D
		Jul-18 - Aug-03	0	25	0	5ZE, 5ZW, 6A, 6B, 6D

**Table 4: Profile data collected prior to 2004 and processed during the past year.  
Total = 9399**

UNIQUE ID	YEAR	CTD	TOWED CTD	BOT	BT	NAFO SUBAREA
180587019	1987	0	0	0	9	3PN 3PS
180K03002	2003	0	0	0	24	3PS
180K03005	2003	0	0	0	1	3PS
180K03015	2003	0	0	0	11	3PS
181066002	1966	0	0	33	0	4X 4W 6H 3M 3N 3O
181A03012	2003	0	0	0	7	4X 4W
181C03001	2003	38	2	0	7	3L 3K 2J
181C03002	2003	14	5	0	1	3L 3PS
181C03003	2003	58	0	0	4	3PS 3PN
181C03004	2003	114	1	0	22	3PS 3O 3L
181C03005	2003	0	4	0	0	3PS
181C03006	2003	70	2	0	5	3L 3O

181C03007	2003	57	1	0	6	3L 3N
181C03008	2003	76	2	0	11	3L 3N
181C03009	2003	95	1	0	11	3L 3O 3N
181C03010	2003	0	3	0	1	3L 3PS
181C03012	2003	70	2	0	2	3L 3O 3N
181C03013	2003	57	2	2	7	3L 3N 3O
181C03014	2003	51	1	2	2	3L 3N
181C03015	2003	59	3	2	2	3L 3PS 3O
181C03016	2003	62	1	2	2	3L
181C03017	2003	35	0	0	8	3L 3K
182471031	1971	0	0	1	0	4T
182471036	1971	0	0	3	0	4T
189001006	2001	0	0	21	0	4T
189003001	2003	0	10	10	0	4S 4T
189096001	1996	0	1	0	0	4T
189099001	1999	0	0	40	0	4T 4S
18AH03004	2003	0	0	0	4	4X 4W
18AH03005	2003	0	0	0	43	4X 5ZE 5ZW 6B 6A 6C 4W
18BG00013	2000	0	0	22	0	4T
18BG02012	2002	0	0	19	0	4T
18BG03014	2003	0	18	17	0	4T
18BG99020	1999	0	0	23	0	4T
18BW03001	2003	0	10	0	0	3K
18C803005	2003	0	0	0	42	3PS 4W 3L 3N 3O 4VS
18CN93034	1993	0	20	0	0	4S
18CN93040	1993	0	12	0	0	4T
18FL92026	1992	0	91	0	0	4T 4S
18FL92062	1992	0	73	0	0	4T
18FL92068	1992	0	26	0	0	4T 4S
18FL92073	1992	0	99	0	0	4T
18GC03001	2003	0	0	0	6	4X 4W
18GC03002	2003	0	0	0	3	4X 5ZE 6B
18HE03003	2003	0	0	64	0	4T 4S 4R 4VN
18HU02075	2002	0	3	0	0	4W
18HU03021	2003	0	0	1	0	4W
18HU03075	2003	0	137	110	10	3O 3L 3N 3M 3K
18HU76020	1976	0	18	0	0	4X 4W
18HU77029	1977	0	0	3	0	2G 2J 2H
18HU84026	1984	0	223	0	0	2H 2J
18HU99053	1999	0	2	2	0	4T 4S
18LL90033	1990	0	59	0	0	4T 4S
18LL90067	1990	0	58	0	0	4S 4T
18LL91021	1991	0	37	0	0	4T 4S
18MF99014	1999	0	0	2	0	4T 4S
18MH03014	2003	0	0	2	0	4W 4X
18MP03003	2003	0	0	0	51	4X 5ZE 6A 6B 6C 4W
18MQ03003	2003	0	0	0	37	3PS 3O 4VS 4W
18MQ03004	2003	0	0	0	52	4W 4VS 3PS 3O 3L 4X
18MQ03005	2003	0	0	0	14	4X 5ZE 5ZW 6A 6B
18MQ03006	2003	0	0	0	28	4W 4T 4X
18MQ03007	2003	0	0	0	6	4X 4W
18NA92012	1992	0	20	0	0	4VN
18NA93022	1993	0	24	0	0	4VN

18NA93047	1993	0	14	0	0	4VN
18NE02037	2002	0	0	118	0	4W 4X 5Y
18NE02040	2002	0	0	94	0	4W 4VS 4VN
18NE02051	2002	0	0	175	0	4T 4VN 4W
18NE02062	2002	0	0	59	0	4W
18NE03003	2003	0	0	104	0	4W 4VS
18NE03036	2003	0	0	142	0	4W 4X 5Y 4VS
18NE03038	2003	0	195	0	0	3PN 4R 4VN 4T 4S
18NE94043	1994	0	94	0	0	4T 4VN
18OK03001	2003	0	18	0	0	3L
18OK03002	2003	0	5	0	0	3PS
18OK03003	2003	0	10	0	0	3L
18OK03004	2003	0	15	0	0	3L
18OK03005	2003	0	32	0	0	3PS
18OK03006	2003	0	16	0	0	3L
18OK03007	2003	0	18	0	0	3L 3K
18OK03008	2003	0	13	0	0	3L
18OK03009	2003	0	19	0	0	3L
18OK03010	2003	0	17	0	0	3L
18OK03011	2003	0	12	0	0	3L
18OK03012	2003	0	32	0	0	3L
18OK03013	2003	0	24	0	0	3L
18OK03014	2003	0	34	0	0	3L
18OK03015	2003	0	1	0	0	3PS
18OK03016	2003	0	50	0	0	3L
18OK03017	2003	0	6	0	0	3PS
18OL03004	2003	0	0	42	0	4T 4S 4VN 4R
18OL03019	2003	0	0	44	0	4T 4S 4R 4VN
18OL03036	2003	0	0	3	0	4T 4S
18OL03053	2003	0	66	0	0	4T
18OL03054	2003	0	0	2	0	4S 4T
18OL03064	2003	0	0	62	0	4T 4S 4R 4VN
18OP01008	2001	0	0	1	0	4T
18OP01009	2001	0	0	1	0	4T
18OP01010	2001	0	0	1	0	4T
18PA03015	2003	0	1	0	0	4X
18PA03016	2003	0	3	0	0	4X
18PA03017	2003	0	3	0	0	4X
18PA03018	2003	0	3	0	0	4X
18PA03019	2003	0	3	0	0	4X
18PE93051	1993	0	50	0	0	4R
18PY03007	2003	0	1	0	0	4T
18PZ00075	2000	0	0	7	0	4W 4X
18PZ96058	1996	0	79	73	0	4VN 4R 4S 4T
18S603003	2003	0	0	0	2	4X
18S603004	2003	0	0	0	5	4W
18S603005	2003	0	0	0	49	4X 5ZE 6B 6A 6C 5ZW 4W
18TL03001	2003	80	2	0	14	3L 3K 2J
18TL03002	2003	0	39	0	0	3L 3PS
18TL03003	2003	0	27	0	0	3L
18TL03004	2003	0	136	0	25	3L 3O 3N 3M 3K
18TL03005	2003	16	3	0	51	3L 3K
18TL03006	2003	21	2	0	29	3L 3K

18TL03007	2003	0	124	107	31	3L 3M 3K 2J 2H 2G
18TL03008	2003	19	2	0	2	3L
18TL03009	2003	8	2	0	0	3L 3O
18TL03010	2003	79	1	0	10	3L 2J
18TL03011	2003	33	1	0	3	2J 3K 3L
18TL03015	2003	23	0	0	0	3L 3K 2J
18TL03016	2003	17	0	0	1	3L 3K
18TR03006	2003	0	0	0	34	4X 5ZE 5ZW 6A 6B 6C
18VA03001	2003	0	1	0	0	3L
18VA03002	2003	0	1	0	0	3L
18VA03003	2003	0	1	0	0	3L
18VA03004	2003	0	1	0	0	3L
18VA03005	2003	0	1	0	0	3L
18VA03006	2003	0	1	0	0	4T
18VA03007	2003	0	1	0	0	4T
18VA03020	2003	0	0	0	32	3O 3N 3L
18VA03049	2003	0	6	0	0	4T
316G02001	2002	0	38	0	0	6B 6A 5ZW
316G02008	2002	0	110	0	0	5Y 5ZW 5ZE 4X
316G02010	2002	0	210	0	0	5ZW 5Y 5ZE 4X 6A 6B 6C
316G03001	2003	0	62	0	0	5ZW 5Y 5ZE 4X
316G03002	2003	0	103	0	0	6B 6C 6A 5ZW 5ZE
316G03003	2003	0	333	0	0	6B 6C 6A 5ZW 5ZE 4X 5Y
316G03005	2003	0	63	0	0	5ZE 4X 5Y 5ZW 6A
316G03006	2003	0	11	0	0	5ZE 5ZW 6A 6C 6B
316G03008	2003	0	145	0	0	5ZE 5Y 4X 5ZW
316G03010	2003	0	15	0	0	5ZE
31A402002	2002	0	55	0	0	5ZW 5Y 4X 5ZE
31A402003	2002	0	156	0	0	6B 6C 5ZW 6A 5ZE
31A402004	2002	0	338	0	0	6A 5ZW 6B 6C 5ZE 5Y 4X
31A402006	2002	0	161	0	0	6A 6B 6C 5ZW 5ZE 4X 5Y
31A402008	2002	0	141	0	0	6A 6B 6C 5ZE 5ZW
31A402009	2002	0	26	0	0	5ZE
31A402010	2002	0	330	0	0	6B 6A 6C 5ZW 5ZE 4X 5Y
31A403001	2003	0	7	0	0	5ZE
31A403002	2003	0	12	0	0	6A 6B
31A403003	2003	0	61	0	0	6A 6B 6C 5ZE
31A403004	2003	0	59	0	0	5ZE
31A403005	2003	0	16	0	0	5ZE
31A403006	2003	0	86	0	0	5ZW 6A 5ZE 4X 5Y
31AM03001	2003	0	86	0	0	5ZE 4X 5Y 5ZW
31NS02001	2002	0	141	0	0	6B 6C 6A 5ZW 5ZE 4X 5Y
31OC02084	2002	0	17	0	0	6A
359984001	1984	0	0	1	0	4W
35CY83001	1983	0	0	0	75	3PS 3PN
35CY84001	1984	0	0	0	94	4R 3PN 3PS
35CY84002	1984	0	0	0	65	3PS 3O
35CY84003	1984	0	0	0	127	4VS 4W 4X 5ZE 4VN
35CY84004	1984	0	0	0	94	3PN 3PS
35CY85001	1985	0	0	0	41	4R
35CY85002	1985	0	0	0	41	3PS 3PN 4VS
35CY86001	1986	0	0	0	108	3PS 3PN 4VS
35CY86002	1986	0	0	0	43	4R

35CY87001	1987	0	0	0	104	3PS 3PN 3O
35CY88001	1988	0	0	0	103	3PS 3PN 4VS
35CY89001	1989	0	0	0	135	3PS 3PN 3O
35CY90001	1990	0	0	0	134	3PN 3PS

**Table 5: Drifting Buoy data received during 2004**  
**Total Messages = 84106**

BUOY	DATE RANGE	DAYS	SST	AP	AT	WS	WD	TC	NAFO SUBAREA
31903	Jul-02 - Dec 31	183	X	X	-	-	-	-	6H, 6G
41504	Aug-16 - Sep-15	31	X	X	X	-	-	-	6C, 6B, 6D, 6E, 4X, 4W, 4VS
41540	Sep-12 - Dec 31	111	X	X	X	X	X	-	6C, 6B, 6D, 5ZE, 6E, 4X, 4W, 4VS, 3O, 3N, 3M, 6H
41553	Sep-23 - Dec 31	100	X	X	-	-	-	-	6G, 6F
41574	Jan-01 - Jan-13	13	-	-	-	-	-	-	3N, 3M
41578	Jan-01 - Jul-16	198	X	X	-	-	-	-	6F, 6G
41600	Jan-01 - Dec 29	364	X	X	X	-	-	-	6D, 6E, 5ZE, 4X, 4W, 4VS, 6G, 3N, 3M, 6H
41601	Apr-21 - Aug-25	127	X	X	X	-	-	-	6C, 6B, 6D, 6E, 4X, 4W, 4VS, 6F, 6G, 3O, 3N, 3M, 6H
41611	Jan-26 - Apr-17	82	X	X	-	-	-	-	6C, 6B, 6D, 5ZE, 4X, 6E
41623	Oct-24 - Dec 31	69	X	X	-	-	-	-	6C, 6B, 6D, 6E, 4W, 6F, 4VS, 3O
41643	Jan-01 - Feb-18	49	-	-	-	-	-	-	6D
41646	Oct-06 - Oct-17	11	-	X	X	X	X	-	6C, 6B, 6D
41939	Oct-22 - Dec 31	71	X	X	-	-	-	-	6C, 6B, 6D
41942	Nov-06 - Nov-27	22	X	X	-	-	-	-	6C, 6B, 6D, 6E, 4W
41944	Oct-23 - Dec 02	41	-	X	-	-	-	-	6C, 6D, 6E
44502	Aug-25 - Nov-08	76	X	X	-	-	-	-	3K, 2J
44503	Sep-06 - Oct-16	40	X	X	-	-	-	-	3M
44504	Jan-01 - Aug-17	229	X	X	-	-	-	-	3N, 3O
44508	Jan-02 - Mar-09	67	X	X	-	-	-	-	4VS, 3PS, 3O, 3N, 3M
44509	Apr-07 - Sep-15	162	X	X	-	-	-	-	3K, 3L
44510	Apr-14 - Sep-22	162	X	X	-	-	-	-	3K, 3L, 3M, 3N
44511	Apr-15 - Sep-25	164	X	X	-	-	-	-	3L, 3N, 3M, 3K
44512	Jan-02 - Dec 24	357	X	X	-	-	-	-	3L, 3N, 3M
44547	Jul-13 - Jul-25	13	X	X	X	-	-	-	1F
44548	Mar-10 - May-22	74	X	X	X	-	-	-	3K, 3L, 3M
44549	Jun-30 - Dec 27	181	X	X	X	-	-	-	3K, 3L, 3M
44550	Nov-19 - Dec 31	43	X	X	X	-	-	-	3M, 3K
44601	Nov-16 - Dec 31	46	X	X	X	-	-	-	3L, 3N
44607	Dec 09 - Dec 31	23	X	X	X	-	-	-	4X, 4W
44608	Dec 08 - Dec 31	24	X	X	X	-	-	-	4W, 4VS
44616	Jan-01 - Jan-16	16	X	X	X	-	-	-	1F
44617	Jan-01 - Aug-17	230	X	X	X	-	-	-	2J, 3K, 3L, 3M
44621	Jan-01 - Mar-08	68	X	X	X	-	-	-	1F, 1E
44624	Jan-01 - Jul-25	207	X	X	X	-	-	-	2J, 3K, 3L, 3M, 1F
44625	Oct-20 - Oct-27	7	X	X	X	-	-	-	1F

44626	Jan-01 - Sep-16	260	X	X	X	-	-	-	5ZE, 4X, 6E, 6D, 4W, 4VS, 3O, 3N, 3M
44627	Apr-06 - May-13	38	-	X	X	-	-	-	3M, 3K
44629	Jul-13 - Nov-20	130	X	X	X	-	-	-	3L, 3N, 3O
44655	Apr-14 - May-14	31	-	-	-	-	-	-	2J, 3K
44721	Aug-24 - Dec 31	130	X	X	X	-	-	-	2J, 1F
44722	Oct-20 - Dec 31	73	X	X	X	-	-	-	3K, 3L, 3N, 3O, 3M
44725	Dec 17 - Dec 31	15	X	X	X	-	-	-	2J, 3K
44741	Jan-01 - Jan-07	7	X	X	-	-	-	-	3M
44742	Jan-01 - Mar-07	67	X	X	X	-	-	-	3O, 3PS, 4VS, 3N, 3M
44743	Jan-01 - Jan-07	7	X	X	X	-	-	-	2J, 1F
44761	Jan-01 - Apr-12	103	X	X	X	-	-	-	2J, 1F
44765	Jan-01 - Sep-09	253	X	X	X	-	-	-	4W, 4X, 5ZE, 6D, 6E, 4VS, 3O, 3N, 3M, 6H
44768	Jan-01 - Sep-14	258	X	X	X	-	-	-	1F
44772	Jan-01 - Mar-04	64	-	X	X	-	-	-	1F
44775	Oct-11 - Dec 20	70	-	X	X	-	-	-	3K, 3L, 3M
44836	Jan-01 - Oct-16	290	-	-	-	-	-	-	4VS, 3O, 3N, 6H, 3M
44837	Jan-04 - Jan-20	16	-	-	-	-	-	-	3N, 3M
46707	Jan-28 - Jan-29	1	X	X	-	-	-	-	4X
48522	Nov-26 - Nov-26	1	-	-	-	-	-	-	3O
48536	May-26 - Nov-18	177	-	X	-	-	-	-	6B
48613	Jul-03 - Jul-28	25	X	X	-	X	X	-	1A
48615	Jul-30 - Aug-11	12	X	X	-	X	X	-	1A
56558	Jan-07 - Jan-07	1	X	X	X	-	-	-	6B
62502	Jan-26 - Jan-28	2	-	-	-	-	-	-	5ZW
64524	Oct-04 - Dec 31	89	X	X	X	-	-	-	1F, 1E
64608	Sep-11 - Dec 31	112	X	X	X	-	-	-	1F, 1E, 1D, 1C, 0B, 2G
65597	Jan-01 - Jul-24	206	-	X	X	-	-	-	1F, 2H, 2J, 3K
65598	Jan-04 - Mar-10	67	-	X	X	-	-	-	1F
65599	Jan-30 - Mar-11	42	X	X	X	-	-	-	1F
65600	Jun-05 - Jun-14	10	-	X	X	-	-	-	1F





**Table 6a (cont)**  
**Current data recovered 2004 and not yet processed.**

Latitude	Longitude	Sounding Depth (meters)	Instrument Depth (meters)	Start Date	End Date	Serial Number	Mooring Number
42.848	61.6278	1123	275	May 22/03	Apr 7/04	Aanderaa # 9607	1478
“	“	“	550	“	“	Aanderaa # 4600	“
“	“	“	800	“	“	Aanderaa # 4602	“
“	“	“	1085	“	“	Aanderaa # 4603	“
42.6883	61.5500	1987	257	May 23/03	Apr 8/04	Aanderaa # 7525	1479
“	“	“	550	“	“	Aanderaa # 0217	“
“	“	“	800	“	“	Aanderaa # 225	“
“	“	“	801	“	“	Aanderaa # 1039	“
“	“	“	1085	“	“	Aanderaa # 1951	“
“	“	“	1601	“	“	Aanderaa # 3299	“
“	“	“	1976	“	“	Aanderaa # 4195	“
55.1195	54.0925	1050	980	July 24/03	May 20/04	Aanderaa # 5002	1475
46.9992	47.2848	399	74	July 19/03	June 1/04	Aanderaa # 7131	1493
“	“	“	99	“	“	Aanderaa # 8695	“
“	“	“	149	“	“	Aanderaa # 5573	“
“	“	“	299	“	“	Aanderaa # 6405	“
“	“	“	374	“	“	Aanderaa # 7127	“
“	“	“	67	“	“	RDI Adcp # 2456	“
46.9982	47.035	1118	298	July 19/03	June 2/04	Aanderaa # 8697	1494
“	“	“	498	“	“	Aanderaa # 3300	“
“	“	“	798	“	“	Aanderaa # 4154	“
“	“	“	1093	“	“	Aanderaa # 4998	“
“	“	“	175	“	“	RDI Adcp # 0239	“
44.8313	56.1758	397	122	Nov 5/03	June 8/04	Aanderaa # 9355	1496

Latitude	Longitude	Sounding Depth (meters)	Instrument Depth (meters)	Start Date	End Date	Serial Number	Mooring Number
44.8313	56.1758	397	197	Nov 5/03	June 8/04	Aanderaa # 4271	1496
“	“	“	297	“	“	Aanderaa # 5575	“
44.8313	56.1758	397	372	Nov 5/03	June 8/04	Aanderaa # 6411	1496
74.0834	91.0443	148	76	Aug 7/03	Aug 1/04	RDI Adcp # 0512	1483
74.0817	91.0331	148	144	“	“	RDI Adcp # 1266	1484
74.1961	90.8468	269	80	Aug 8/03	Aug 1/04	RDI Adcp # 1269	1486
74.3191	90.7501	209	196	Aug 9/03	Aug 1/04	RDI Adcp # 3380	1488
74.5358	90.4248	203	79	Aug 9/03	Aug 2/04	RDI Adcp # 0499	1490
44.3324	64.2491	20	19.5	July 21/04	Sept 13/04	RDI Adcp # 3560	1506A
44.3319	64.2478	21	21	Sept 14/04	Nov 10/04	RDI Adcp # 3560	1506B
43.8701	60.1953	36.3	34.5	Sept 3/04	Dec 1/04	RDI Adcp # 2935	1541

**Table 6b**  
**Current Meters Deployed 2004 and not yet recovered.**

Deployment Date/Location	Instrument Type	Number of Instruments	Projected Recovery Date
June 2004 Labrador Sea	Aanderaa	1	June 2005
June 2004 Flemish Pass	RDI Adcp Aanderaa	2 9	June 2005
June 2004 Orphan Basin	Aanderaa RDI Adcp	22 2	June 2005
August 2005 Barrow Strait	RDI Adcp	5	August 2005
Sept. 2004 Davis Strait	Aanderaa RDI Adcp	10 3	Sept. 2005
Nov. 2004 Makkovik Bank	RDI Adcp	1	June 2005
Oct. 2004 Scotian Slope	Aanderaa	2	June 2005