Abstract

During the year, the Marine Environmental Data Service (MEDS) and the Engineering and Geomatics Services section of the Canadian Hydrographic Service (CHS) were combined together and renamed Integrated Science Data Management (ISDM).

ISDM (formerly 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 2006 are included. This report will also provide an update on other ISDM activities during 2006.

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, now ISDM, has been recognized since 1975 as the Regional Environmental Data Center for ICNAF and subsequently for NAFO. In order for ISDM to carry out its responsibility of reporting to the Scientific Council, the Designated National Representatives selected by STACFEN are requested to provide ISDM 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 2007 required the submission to ISDM of a completed oceanographic inventory form for data collected in 2006, and oceanographic data pertinent to the NAFO area, for all stations occupied in the year prior to 2006. 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 ISDM are available to all members on request. Requests can be made by telephone (613) 990-0243, by e-mail to isdm-gdsi@dfo-mpo.gc.ca, by completing an on-line order form on the ISDM web site at www.meds-sdmn.dfo-mpo.gc.ca/meds/Contact_US/Request_e.asp or by writing to Services, Integrated Science Data Management (ISDM), Dept. of Fisheries and Oceans, 12th Floor, 200 Kent St., Ottawa, Ont. Canada K1A 0E6.
Data Summaries for 2006

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. ISDM 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 2006 for the NAFO area:

- **Table 1, Figure 1:** Real-time temperature-salinity profile data collected and processed in 2006
  TOTAL: 86295 profiles
- **Table 2, Figure 2:** Delayed-mode profile data collected and processed in 2006
  TOTAL: 3014 profiles
- **Table 3, Figure 3:** Profile data collected prior to 2006 and processed in 2006
  TOTAL: 23536 profiles
- **Surface Thermosalinograph data collected and processed in 2006**
  TOTAL: 0 stations

Ocean subsurface data are processed at ISDM 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.

http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/OCEAN/QC_e.htm
Figure 1: Real Time Temperature-Salinity Stations 2006
Total = 86295 Stations
Figure 2: Delayed-mode profile data collected and processed in 2006
Total = 3014 Stations
Drifting Buoy Data

The following inventory and map summarize ISDM drifting buoy data collected and processed in 2006 for the NAFO area:

- Table 4, Figure 4: Drifting Buoys in the NAFO Area in 2006 TOTAL = 331086 messages

Drifting buoy data are received at ISDM 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 ISDM 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.
ISDM drifting buoy archive contains over 53 million records for the world's oceans, from 1978 to present, and is currently growing at a rate of one million messages per month. 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.

**Figure 4: Drifting Buoy messages 2006**

![Map of NAFO area with grid lines](image)

Total = 331086 Messages

**Current Meter Data**

The following inventory summarizes current meter data collections in 2006 in the NAFO area:

- **Table 5a**: Current meter data recovered in 2006
- **Table 5b**: Current meter data recovered in 2006 and not yet processed
- **Table 5c**: Current meters deployed in 2006 and not yet recovered

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 online at: [www.mar.dfo-mpo.gc.ca/science/ocean/home.html](http://www.mar.dfo-mpo.gc.ca/science/ocean/home.html).
Wave Data
The following map displays where ISDM wave data were collected in 2006:

- Table 6, Figure 6: Wave Buoys in the NAFO Area in 2006  TOTAL = 15 Buoys

ISDM 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 ISDM software to set flags on data showing instrument failures. During 2006, data was collected from 15 buoys in the NAFO area.

http://maps.google.com/maps/ms?ie=UTF8&hl=en&msa=0&msid=114931811061257326218.00000112e8a8366615fab&ll=47.040182,-57.524414&spn=21.038802,40.869141&t=k&z=5&om=1

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

www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/WAVE/WAVE_e.htm
Tide and Water level Data
The following map displays where ISDM tide and water level data were collected from:

- **Figure 7: Tide and water level data in the NAFO Area in 2006 TOTAL = 17 Gauges**

Yellow blocks indicate temporary gauges, purple indicates permanent.

ISDM continued to process and archive operational tides and water level data that were reported on a daily to monthly basis from the Canadian water level network. ISDM archived observed heights with up to a 1-minute sampling interval, hourly heights and monthly instantaneous extremes collected around Canada. Approximately 1.3 million new readings were updated every month from the network with the increase in sampling interval. The historical tides and water level data archives presently hold over 422 million records with the earliest dating back before the turn of the century. Data from 92 tide and water level gauges were processed during 2006 with 17 in the NAFO region. The data is quality controlled using ISDM software and is available for download from ISDM web site:

Figure 7: Tide and water level data in the NAFO Area in 2006
Total = 17 gauges

Activity Updates

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. Some of the newer floats now also report oxygen. Data are distributed on the Global Telecommunications System (GTS) within 24 hours of collection and made available on two Global servers located in France and the US. ISDM role is to carry out the processing of the data received from Canadian floats, to distribute the data on the GTS and the global servers within 24 hours and to handle the delayed mode processing.

ISDM developed a Canadian web site www.meds-sdmm.dfo-mpo.gc.ca/meds/Prog_Int/argo/ArgoHome_e.html that contains data and information about Canadian floats as well as general information and statistics about the global array. Global information is also available from the Argo Information Centre in Toulouse at argo.jcommops.org.

During 2006, the Canadian Argo program deployed 15 Argo floats in the NAFO region, including 4 oxygen floats and produced 888 temperature and salinity profiles and 144 oxygen profiles. 3 floats were programmed to return a temperature and salinity profile within 24 hours of its deployment before continuing on its regular 10 day cycle. This was done to check the calibration of the Argo instruments by comparing the data to a conventional CTD cast also taken at deployment. The 4 oxygen floats were also new in that they did not carry an Optode sensor as the previous oxygen floats did in an effort to save energy and improve the floats’ lifetime. Currently, there are 37 active floats and 39 inactive floats in the NAFO region. Figure 1 shows the Canadian Argo floats deployed in the North Atlantic as of May 2006. The tracks in red indicate floats that are inactive and no longer reporting.
Atlantic Zone Monitoring Programme (AZMP)
The DFO Atlantic Zone Monitoring Programme activities include regular sampling for 7 fixed stations and 13 standard sections, and research cruises in the AZMP area to collect other physical, chemical and biological data. As part of ISDM’ activities in data management, ISDM continues to build and maintain the AZMP web site: www.meds-sdmm.dfo-mpo.gc.ca/zmp/main_zmp_e.html.

The wealth of data and information on the site includes:
- Physical and chemical data from 1999 to the present such as CTD, bottle and bathythermograph measurements
- Climate indices showing long term trends of physical variables in the areas of Seawater, Freshwater, Ice, Atmosphere
- Water level data for 9 gauges ranging from 1895 to present
- Graphical representations of biological data (phytoplankton, zooplankton) -Remote Sensing links for Ocean Colour, SST and Primary Productivity product
Centre for Ocean Model Development and Application (COMDA)
DFO has created a virtual Centre for Ocean Model Development and Application (COMDA) with a mandate to provide national leadership, coordination and advice in areas of ocean model development and application that are departmental priorities. COMDA will be leading and assisting in the development and execution of different scientific projects. One of the initial and major projects includes "Ocean Modelling for Benthic Habitat Mapping" in collaboration with NRCan to provide a quantitative representation of ocean current and waves influences on the seabed surrounding Canada. Other projects are listed here: http://www.mar.dfo-mpo.gc.ca/science/ocean/comda/comda-e.html

ISDM's involvement with COMDA will be to provide data streams of temperature and salinity for model initialization and data assimilation. This step involves creation of three-dimensional fields of temperature and salinity that represent the real-time state of the ocean. This is done by integrating all real-time data sources that are received, controlled or processed at ISDM. The scientific method behind this integration is called objective analysis. The depth levels can be targeted according to the needs of scientists and other clients.

One by-product of this operation is the capability of generating very accurate fields of temperature and salinity for periods from the recent past, using all data that was available at the time and that has been coming to ISDM since (delayed mode, calibrated data).

Aquatic Invasive Species (AIS)
Aquatic Invasive Species are a major threat to Canada's fisheries and aquaculture industry and have been entering Canadian waters for centuries but never as rapidly as today. Every decade, some 15 alien species establish themselves in our coastal or inland waters. In the absence of their natural predators, the most aggressive of them spread rapidly. They can radically alter habitat, rendering it inhospitable for native species. The zebra mussel and sea lamprey are examples of such species that have greatly affected the Great Lakes.

The most effective approach to dealing with this threat involves managing the pathways through which invasive species enter and spread through Canadian waters. For aquatic species these pathways are shipping, recreational and commercial boating, the use of live bait, the aquarium/water garden trade, live food fish, unauthorized introductions and transfers, and canals and water diversions. The shipping pathway is considered the largest single source of new aquatic invasive species. Ballast water that is taken on in foreign ports, for ship stability and safety at sea, is discharged in Canadian waters, along with undesirable "hitchhikers" - foreign species ranging from bacteria to larger organisms.
The Canadian Aquatic Invasive Species database and web application was developed in 2004-5. The main objective was to provide a geo-referenced repository for all invasive species observations gathered in Canada by DFO scientists, provincial departments, other federal or municipal departments and the general public. The second objective was to create a decision making tool that would allow the production of augmented value products that would illustrate trends and movements over time and various locations and thus allow the department to be proactive rather than reactive to observations made.

Currently there is data from the Great Lakes, the Maritimes and some from the Vancouver area. Most of the data are observations of location name, long-lat, species name, date, and any metadata provided.

**National Science Data Management Committee (NSDMC)**

Two years ago the Science Sector of DFO completed a review of its activities and settled on 5 themes around which to organize its activities in the future. One of these was data management. The data collected by Science is used both by researchers and stock assessment staff to estimate the state of various stocks. To improve management of the data, a national committee was formed called the National Science Data Management Committee, NSDMC. The NSDMC is chaired by Bob Keeley of ISDM and has representatives from each administrative region in DFO. The committee is charged with developing a strategy, completed last year, and an implementation plan, currently under review. These documents will first guide the development of a national data system and document the work required to realize the objectives of the strategy.

The committee has been in place for 2 years and has received significant funding to undertake a number of projects including a modernization of the handling of trawl survey data, standardization of data handling procedures, acquiring historical data not currently maintained in formal archive systems, and improving access to the data.

**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.
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Table 5c: Current Meters Deployed 2006 and not yet recovered

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<td>May 2007</td>
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Table 6: Wave Buoys reporting in 2006

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