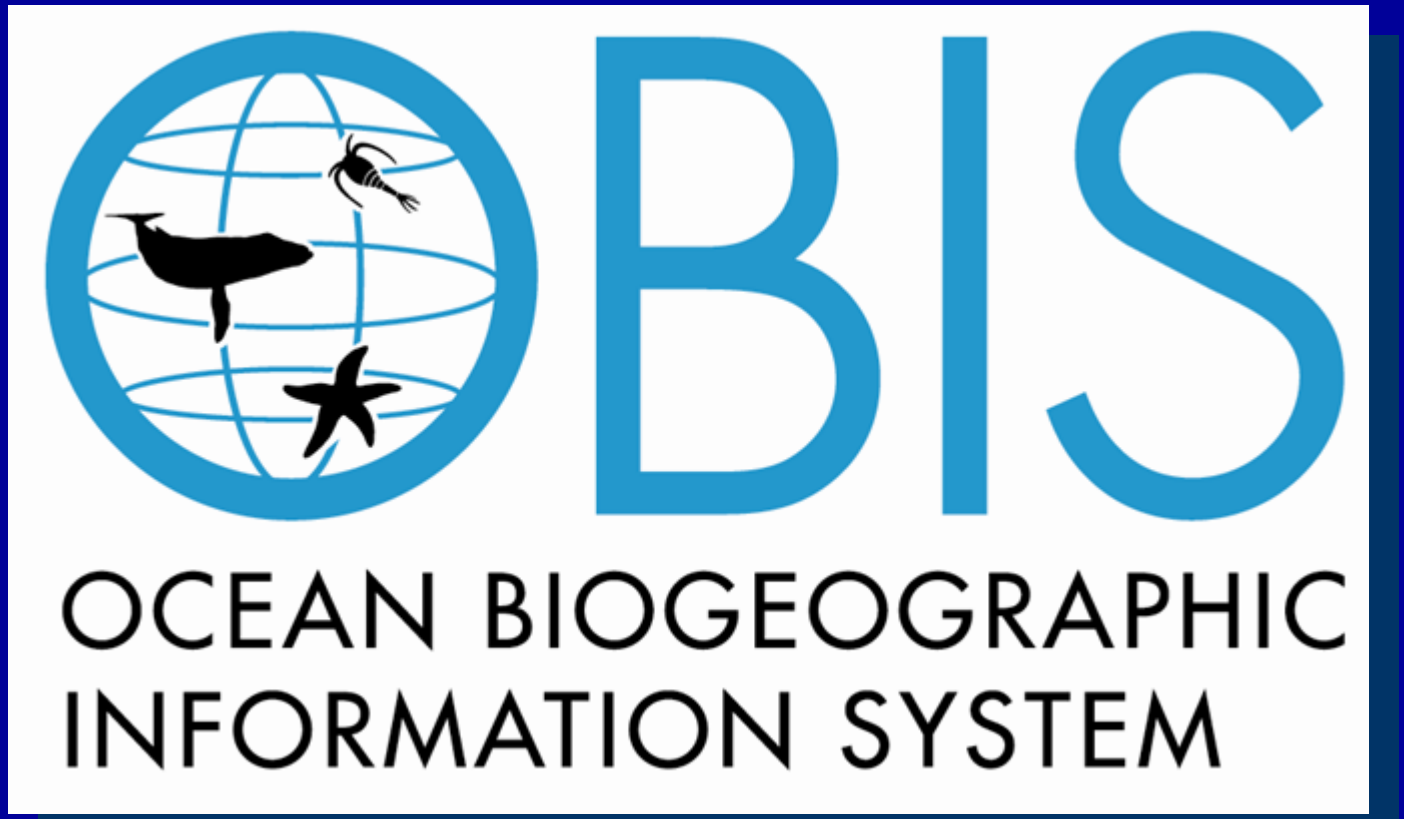
www.iobis.org

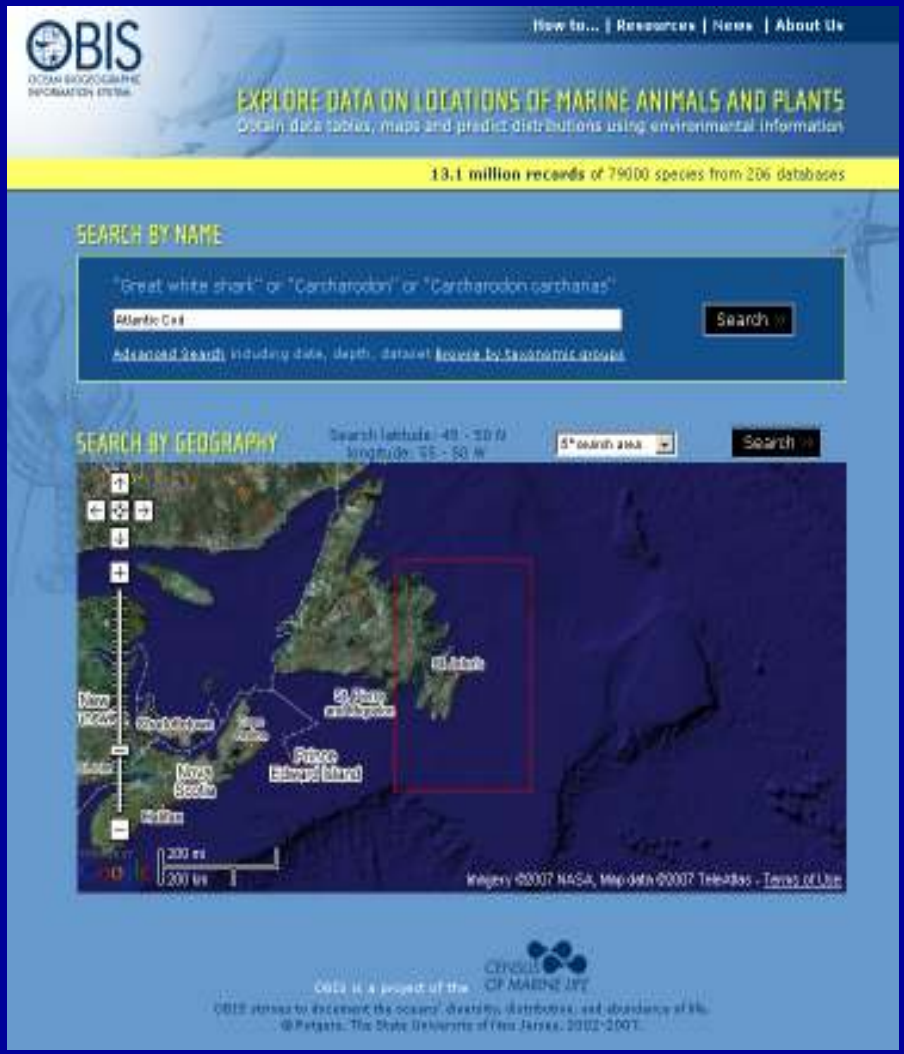


The 'Leading Wave' of Worldwide Marine Species Data Integration

Robert M. Branton and Lenore Bajona
Bedford Institute of Oceanography
brantonb@mar.dfo-mpo.gc.ca

OBIS Provides …

- Marine species data records from around the world including: museum collections, management agencies, research institutions, etc.
- All locations where an organism was found, and all organisms found at a location.
- Software tools to use these data effectively for research, management and education.



Sample WWW Products

Discovery Metadata

OBIS Portal on Global Change Master Directory

8 Titles Match Your Query

Showing 1 through 8 of 8

1. Bay of Fundy Species Information System (OBIS Canada) [OBIS.BOFETF] PARENT DIF
ABSTRACT: The Bay of Fundy Species Information System provides taxonomic, biological and ecological information on diatoms, dinoflagellates, marine algae, most invertebrate groups, ...

2. Electronic Atlas of Ichthyoplankton on the Scotian Shelf of North America (OBIS Canada) [OBIS.AtlasIchthyoplankton] PARENT DIF
The EAISSNA database contains information on location and time of spawning, and abundance and distribution of eggs and larvae of marine fish on the Scotian Shelf of North America. ...

3. Atlantic Reference Centre (OBIS Canada) [OBIS.ARC] PARENT DIF
This is the Atlantic Reference Centre museum database for Canadian Atlantic marine organisms. Specimens represent invertebrates from sponges to tunicates, and fishes. The ichthyoplankton ...

4. Grand Manan Basin Benthos [OBIS.DeepWaterSedimentCom] PARENT DIF
Summary: This study investigates the faunal biodiversity of the deep water sediments of Grand Manan Basin in the Bay Fundy on the East Coast of North America. Specimens were collected ...

5. ECNASAP - East Coast North America Strategic Assessment (OBIS Canada) [OBIS.groundfish_atlas] PARENT DIF
Fishery-independent groundfish data for the east coast of North America from Cape Hatteras to the US/Canadian border and for Bay of Fundy through the Scotian Shelf. Time period ...

6. Canada Maritimes Regional Cetacean Sightings (OBIS Canada) [OBIS.Marwhale] PARENT DIF
This is an OBIS formatted version of the Canadian government's Department of Fisheries and Oceans Maritimes Region database for visual sightings of cetaceans (e.g. whales, dolphins ...

7. Marine Invertebrate Diversity Initiative (OBIS Canada) [OBIS.MIDI] PARENT DIF
The goal of Marine Invertebrate Diversity Initiative (MIDI) is to provide information about marine invertebrates (animals without backbones). We hope to engage scientists, educators ...

8. Nova Scotia Museum of Natural History - Marine Birds, Mammals, and Fishes (OBIS Canada) [OBIS.NSMNH] PARENT DIF
This is the Nova Scotia Museum of Natural History database for marine organisms, including birds, mammals, and fishes. It contains mostly Nova Scotia material but there is also ...

Showing 1 through 8 of 8

OBIS Enriched Discovery Metadata

How to cite OBIS data

Notes to users

ECNASAP - East Coast North America Strategic Assessment (OBIS Canada)

From Global Change Master Directory, last updated on 2006-06-05; * from Ocean Biogeographic Information System, last modified on 2007-04-10.

1	Data Source Name	ECNASAP - East Coast North America Strategic Assessment (OBIS Canada)
2	Citation	Government of Canada, Fisheries and Oceans Canada, Maritimes Region, Science Branch *East Coast North America Strategic Assessment Project, Groundfish Atlas for the East Coast of North America*. , , . Retrieved 2007-05-10 from http://www.iobis.org
3	Taxonomic coverage*	Invertebrates: Arthropoda: Crustacea: Malacostraca: Decapoda: "Decapods (shrimp, lobsters, crabs)" Invertebrates: Mollusca: Cephalopoda: Sepiolida, Spirulida, Teuthida, Vampyromorphida: "Squids" Vertebrates: Agnatha, Chondrichthyes, Osteichthyes: Actinopterygii: "Ray-finned fishes" Vertebrates: Agnatha, Chondrichthyes, Osteichthyes: Cephalaspidomorphi, Myxini: "Lampreys, hagfishes" Vertebrates: Agnatha, Chondrichthyes, Osteichthyes: Elasmobranchii, Holocephali: "Sharks, rays and chimaeras"
4	Geographic Coverage*	ATLANTIC OCEAN CANADA GULF OF MAINE MID-LATITUDE NORTH AMERICA NORTH ATLANTIC OCEAN NORTHERN HEMISPHERE UNITED STATES OF AMERICA WESTERN HEMISPHERE BAY OF FUNDY NOVA SCOTIA SEA FLOOR MAINE MASSACHUSETTS NEW HAMPSHIRE NORTH CAROLINA DELAWARE PENNSYLVANIA NEW BRUNSWICK MARYLAND Latitude: 5.34N to 69.53N; Longitude: 86.18W to 6.57W
5	Temporal coverage*	1970 to 1995
7	Total Distribution Records*	466734
8	Total Number of Taxa*	274
11	Abstract	Fishery-independent groundfish data for the east coast of North America from Cape Hatteras to the US/Canadian border and for Bay of Fundy through the Scotian Shelf. Time period is 1970-95. Efforts are underway to extend taxonomic, tempoaral and spatial coverage of data available from OBIS.

http://gcmd.nasa.gov/KeywordSearch/Home.do?Portal=OBIS&MetadataType=0

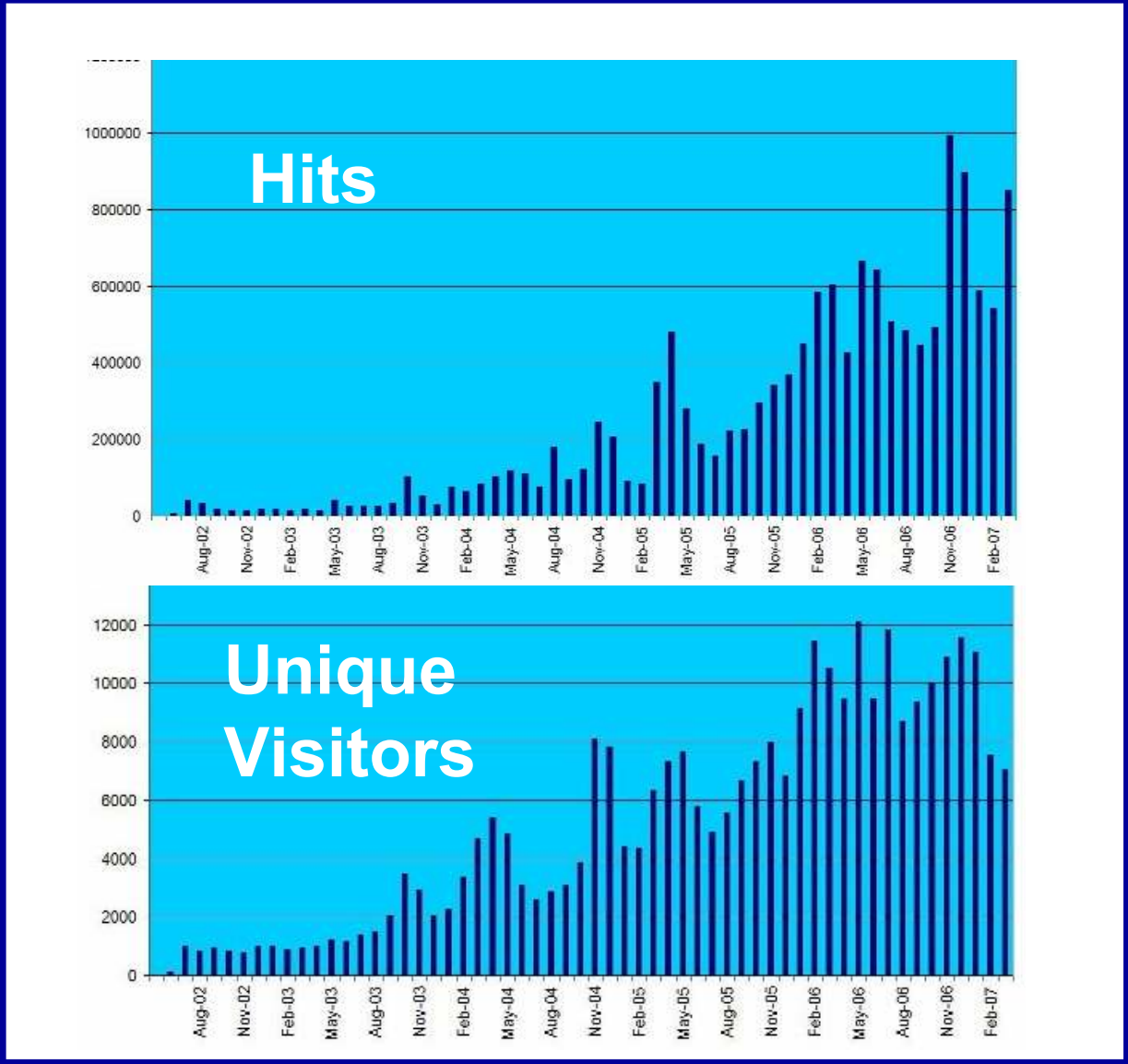
OBIS Technology

- Distributed datasets connected via DiGIR and the OBIS Schema, an extension to the Darwin Core V2.
- Data are regularly crawled and cached locally (and indexed) to improve performance.
- Quality Control
  - Names are matched against the Catalog of Life
  - Questionable points (on land, 0-0) are returned to the data provider for checking
  - Dataset without metadata will not be posted

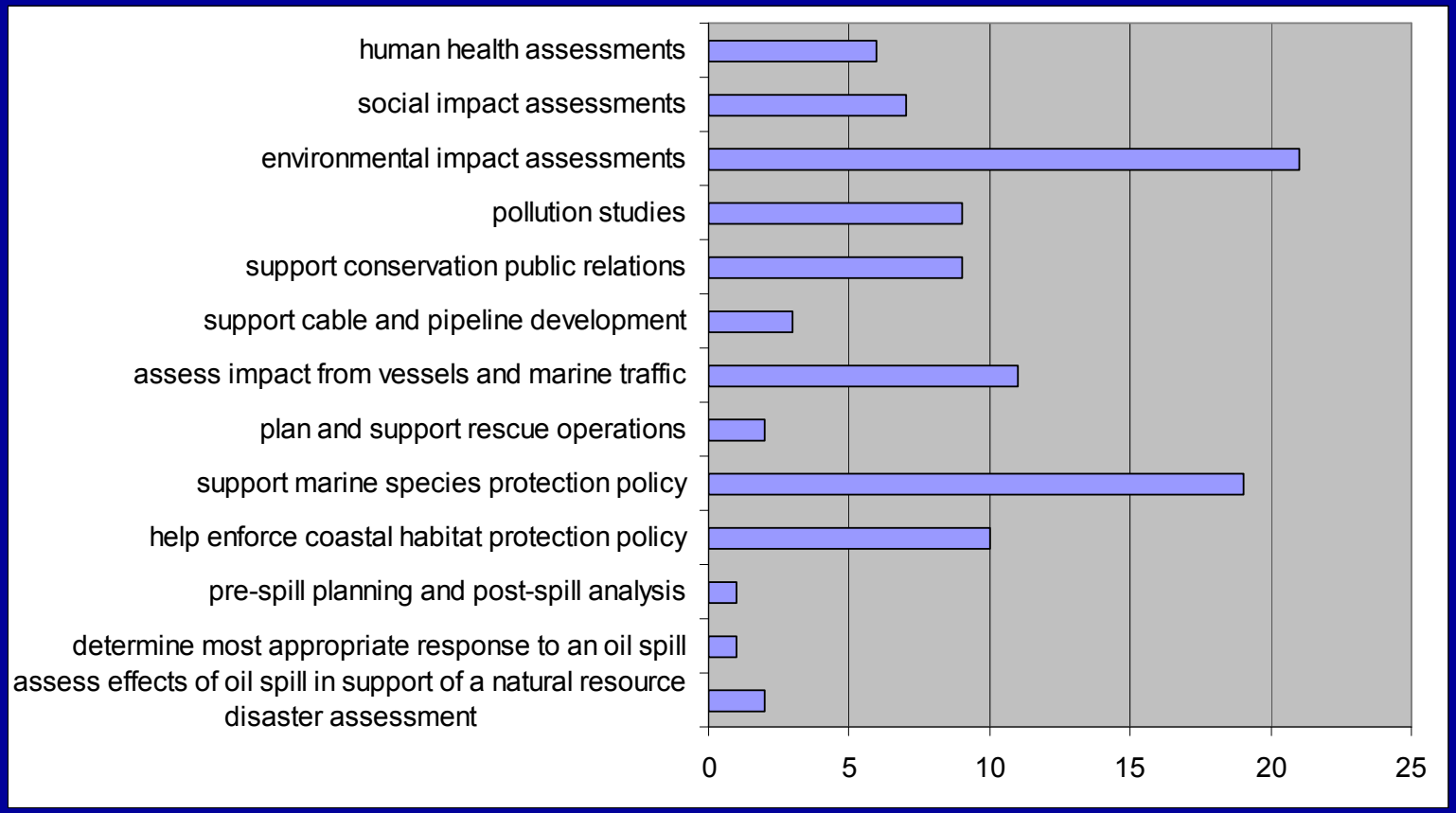
OBIS Record Schema

- What (Taxonomic name): genus, species, subspecies, authority, family, order....
- Where: latitude, longitude, depth, place name, precision
- When: month, day, year, time of collection
- Who: collector, identifier, dataset name, institution serving dataset
- How Many: number caught, number preserved
- Other: source of record, life stage, type status, etc.

Monthly Web Usage Statistics



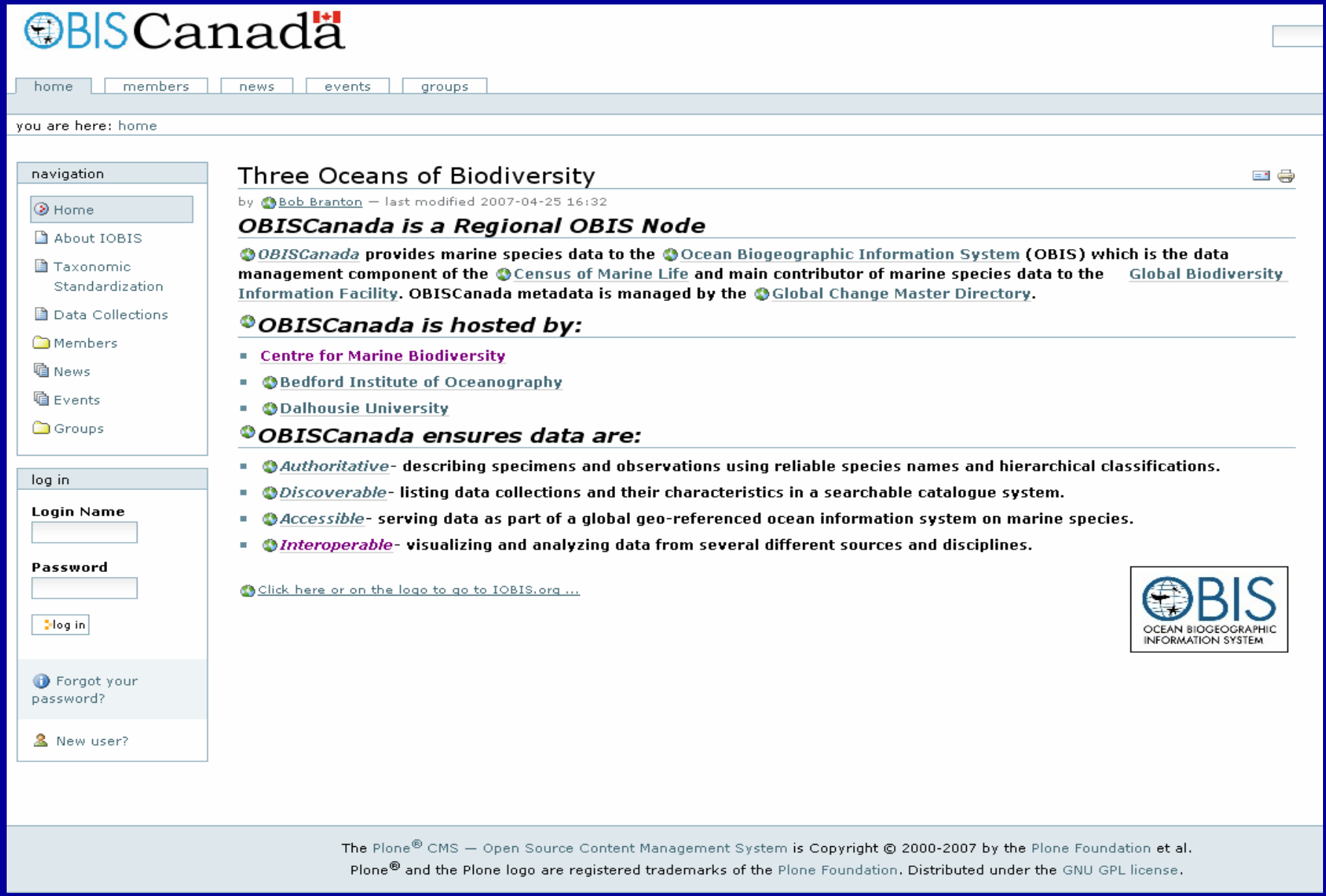
User Needs Assessment Survey



We will soon conduct a multi-lingual user needs assessment survey as a basis for attaining self sufficiency by 2010. Please visit www.iobis.org and participate.

Regional OBIS Nodes (RONS)

http://marinebiodiversity.ca/OBISCanada

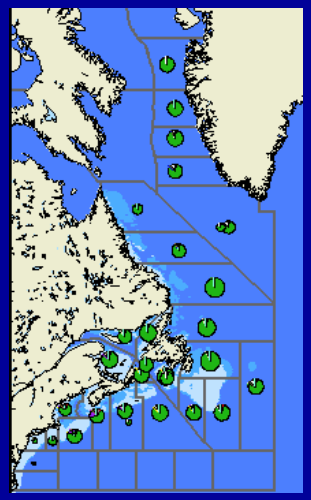


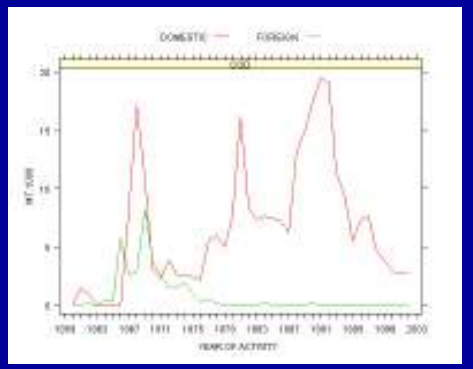
Authoritative, Discoverable, Accessible, Interoperable

Coming Soon:
Desktop access for 'R'

Statistical Environment

Overview of Marine Fisheries Data





Species

Stocks

Stat Areas

Int'l Stats

Unit Areas

Nat'l Stats

Port Samples

Strata

Surveys

Logbooks

Landings

Observers

Monitoring

Aggregation

Regions

Areas

Sets

Hourly

All Species

Kept and Discarded Commercial Species

Kept Commercial Species Only

Precision / Coverage

Enforcement Related Activity

OBIS Like Data Provided to GeoCod

OBIS Products Being Worked On

Observer Discovery Metadata

OBIS Usage Agreement

1. Acknowledge use of specific records from contributing databases in the form appearing in 'Citation' field (if any); and acknowledge use of OBIS facility:

   For data used: Author, initials. Database title. Retrieved [date accessed] from www.iobis.org, for example:

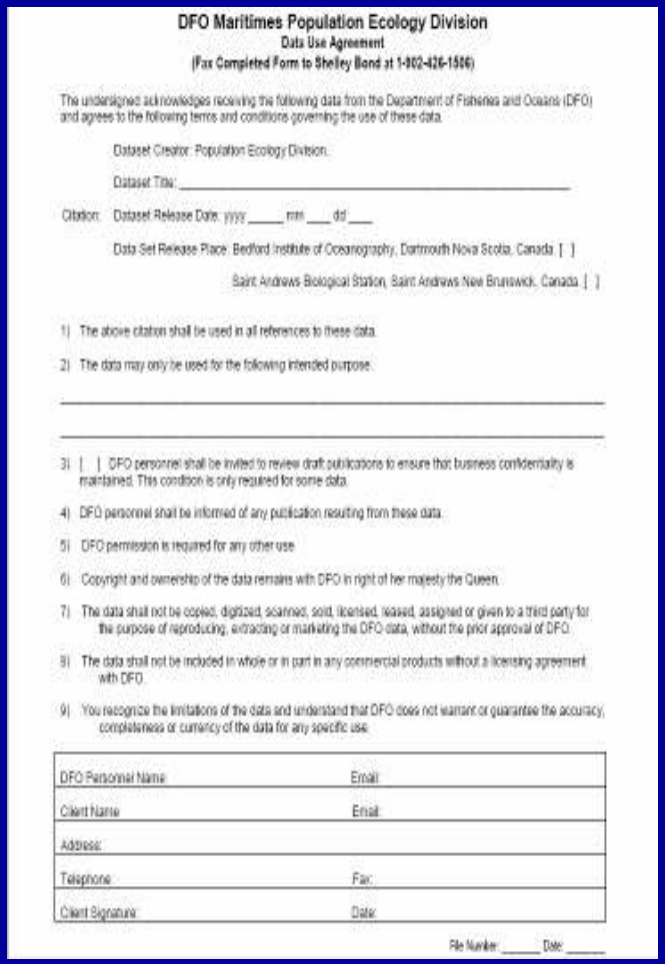
   Stocks, K. SeamountsOnline: an online information system for seamount biology. Version 3.1. Retrieved [date] from www.iobis.org.

   For OBIS website: Ocean Biogeographic Information System. [date accessed] www.iobis.org

2. Provide obissupport@marine.rutgers.edu with full citation of any publication (printed or electronic) that cites OBIS or any constituent part.

3. Recognize limitations of data in OBIS

Observer Data Access Request



DFO Maritimes Population Ecology Division
Data Use Agreement
(Fax Completed Form to Shelley Bond at 1-902-426-1506)

The undersigned acknowledges receiving the following data from the Department of Fisheries and Oceans (DFO) and agrees to the following terms and conditions governing the use of these data.

Dataset Creator: Population Ecology Division.

Dataset Title: _____

Citation: Dataset Release Date: yyyy ____ mm ___ dd ___

Data Set Release Place: Bedford Institute of Oceanography, Dartmouth Nova Scotia, Canada [ ]

Saint Andrews Biological Station, Saint Andrews New Brunswick, Canada [ ]

1) The above citation shall be used in all references to these data.

2) The data may only be used for the following intended purpose:

_____

_____

3) [ ] DFO personnel shall be invited to review draft publications to ensure that business confidentiality is maintained. This condition is only required for some data.

4) DFO personnel shall be informed of any publication resulting from these data.

5) DFO permission is required for any other use.

6) Copyright and ownership of the data remains with DFO in right of her majesty the Queen.

7) The data shall not be copied, digitized, scanned, sold, licensed, leased, assigned or given to a third party for the purpose of reproducing, extracting or marketing the DFO data, without the prior approval of DFO.

8) The data shall not be included in whole or in part in any commercial products without a licensing agreement with DFO.

9) You recognize the limitations of the data and understand that DFO does not warrant or guarantee the accuracy, completeness or currency of the data for any specific use.

DFO Personnel Name:	Email:
Client Name:	Email:
Address:	
Telephone:	Fax:
Client Signature:	Date:

File Number: _____ Date: _____

OBIS is …

- operated by an international team of data management experts
- based on internationally accepted metadata schemas
- currently serving ~10,000 unique visitors per month
- ready and able to serve the fisheries community

THANK YOU ☺

http://www.marinebiodiversity.ca/OBI07/

Ocean Biodiversity Informatics

International Conference on Marine Biodiversity Data Management
Bedford Institute of Oceanography, Dartmouth, Nova Scotia, Canada
October 2-4, 2007

site

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- Close of 1st Call for Presenters
- Ocean Biodiversity Informatics Conference (OBI'07)
- Thanks

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Welcome to the OBI'07 conference portal

by zopemgr — last modified 2007-04-30 21:10

Introduction:

Here are information and resources pertaining to the Ocean Biodiversity Informatics conference being held Oct. 2-4 2007 at the Bedford Institute of Oceanography in Dartmouth, Nova Scotia, Canada. Presenters can register online by clicking here. The first call for presenters closes on April 30, 2007.

Background:

At the International Ocean Data and Information Exchange (IODE XVIII) conference on Apr 26-30, 2005 in Ostende (Belgium) Dr Edward Vanden Berghe reported on the Ocean Biodiversity Informatics conference, Hamburg (Germany), 29/11-1/12/2004 (169 registrants, 37 oral presentations and 33 posters) and the Colour of Ocean Data conference in Brussels (Belgium), 25-27/11/2002 (200 registrants; 44 oral presentations, 40 posters). A major point of discussion at both conferences was data policy issues, and the advantages of free and open sharing of biodiversity data. Much work however remains to be done. The representative of the International Council for Exploration of the Sea (ICES), Ms Julie Gillin suggested a second OBI conference to focus on biological data quality issues and continue the valuable cross-disciplinary interchange. This conference will be co-organized by IODE, ICES and the Ocean Biogeographic Information System (OBIS) and will be jointly hosted by the Centre for Marine Biodiversity and the Bedford Institute of Oceanography (BIO) in Dartmouth (Canada) on 2-4/10/2007. If you wish to help organize the OBI'7 conference, please contact one of the leads of the organizing committees.

Programme Plan:

Application topics:

- conservation of species and habitats;
- modeling of global change impacts;
- invasive species;
- ecosystems based management;
- ecologically & biologically sensitive areas;
- museum collections;
- fisheries management;
- harmful algal blooms;
- and oil and gas exploration.

Technical topics:

- data and metadata standards for distributed systems;
- managing complex data (e.g. images, bioinformatics, ...);
- species information systems;
- linking biological to physical and chemical data;
- interacting with ocean observing systems;
- visualization and mapping;
- data collection and quality control;
- decision making and predictive modeling,
- and annotation schemes for networked information systems.