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OCEAN BIOGEOGRAPHIC  
INFORMATION SYSTEM

**The 'Leading Wave' of Worldwide Marine Species Data Integration**

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# 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.

The screenshot shows the OBIS website interface. At the top left is the OBIS logo with the text "OCEAN BIOGEOGRAPHIC INFORMATION SYSTEM". To the right are navigation links: "How to...", "Resources", "News", and "About Us". Below the logo is the main heading "EXPLORE DATA ON LOCATIONS OF MARINE ANIMALS AND PLANTS" with a sub-heading "Obtain data tables, maps and predict distributions using environmental information". A yellow banner below this states "13.1 million records of 79000 species from 206 databases".

The main content area is divided into two sections:

- SEARCH BY NAME:** This section features a search bar with the text "Great white shark" or "Carcharodon" or "Carcharodon carcharias" and a "Search" button. Below the search bar is a text input field containing "Atlantic Oat" and another "Search" button. A link for "Advanced Search" is also present.
- SEARCH BY GEOGRAPHY:** This section includes a map of the Atlantic Ocean. Above the map are search parameters: "Search latitude: 49 - 50 N" and "Search longitude: 55 - 50 W", along with a "Search area" dropdown menu and a "Search" button. The map shows the coastline of North America and the Atlantic Ocean, with a red rectangular search area highlighted. A scale bar at the bottom left of the map indicates 200 miles.

At the bottom of the page, there is a logo for the "CENTRE OF MARINE LIFE" and a footer that reads: "OBIS is a project of the CENTRE OF MARINE LIFE. OBIS strives to document the ocean's diversity, distributions, and abundance of life. © Portugal, The State Departments of New Jersey, 2002-2007."

# Sample WWW Products

**RESULTS** How to cite OBIS data

Sort by:  Scientific name  Common name  Higher taxon  Number of global records

Search criteria included:  
"Latitude 45.0 N - 50.0 N, longitude 50.0 W"

- Fragilaria (unspecified)***  
a diatom, 831 global records
- Fragilaria spp.***  
a diatom, 2807 global records
- Fratercula arctica*** "atlantic p  
a bird, name verified, 2708 global
- Fulmarus glacialis***  
a bird, name verified, 46037 globa
- Gadus morhua*** "Atlantic cod"  
a fish, name verified, 44697 globa
- Gadus ogac*** "Greenland cod"  
a fish, name verified, 613 global r
- Gaidropsarus ensis*** "Three-l  
a fish, name verified, 123 global r
- Gasterosteus wheatlandi*** "B  
a fish, name verified, 215 global r
- Glenodinium spp.***  
a dinoflagellate, 239 global record
- Globicephala (unspecified)***  
a dolphin/small toothed whale, 14

Result page: [Previous](#)

**SPECIES INFORMATION** How to cite OBIS data

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***Gadus morhua***  
"Atlantic cod"

Name verified: Catalogue of Life; FishBase  
Organism type: a fish [FishBase](#)

***Gadus morhua* Data Extent Map** (From OBIS Data Mapper)



For more options, view [full-size map](#) or use other mapping systems:

KGSMapper: a dynamic habitat analysis and inference [Bioconformatics of Hexacorals](#)

(If your request contains < 1,000 records, taxon is transmitted with the locations; if > 1,000 records, will be sent)

**KGS**

Dynamic Multi-Species Mapper from [Bedford Institute Oceanographic](#) (use for species with less than 100,000 records).

**ACON**

**ITIS Report**

[Home](#) [About](#) [Data Access](#) [Submit Data](#) [Track Comment](#)

[In a Nutshell](#)

Results of Search in area Kingdom: Chordata Name search for Gadus mor

***Gadus morhua* Linnaeus, 1758**  
Taxonomic Serials: 184712

**Taxonomy and Nomenclature**

Kingdom:	Animalia
Taxonomic Rank:	Species
Synonym(s):	
Common Name(s):	Waste cod (English) Sea hake of Atlantic (English) sea hake of Atlantic (French) sea hake (French) sea cod (English)
<b>Economic Status</b>	
Current Ranking:	stable
<b>Ende Quality Indicators</b>	
Percent Credible Rating:	stable - standards met

**Taxonomic Hierarchy**

Kingdom:	<a href="#">Animalia</a> - Animal, animals, fauna
Phylum:	<a href="#">Chordata</a> - chordates, cordates, cu
Subphylum:	<a href="#">Gnathostomata</a> - vertebrates, vertebrate
Class:	<a href="#">Actinopterygii</a> - ray-finned fishes, rade
Order:	<a href="#">Gadiformes</a> - gadiforms
Family:	<a href="#">Gadidae</a> - gadids
Subfamily:	<a href="#">Gadinae</a> - gadines
Genus:	<a href="#">Gadus</a> - cods, haddock
Species:	<a href="#">Gadus morhua</a> - Atlantic cod, Atlantic cod (Linnaeus, 1758) - Atlantic cod (Linnaeus, 1758) - Atlantic cod

***Gadus morhua***  
*Atlantic cod*

***Gadus morhua* Linnaeus, 1758**



**Family:** [Gadidae](#) (Cods and haddocks)

**Order:** [Gadiformes](#) (cods)

**Class:** Actinopterygii (ray-finned fishes)

**FishBase name:** Atlantic cod

**Max. size:** 200 cm TL (male/increased; Ref. 1371), max. published weight 96.0 kg (Ref. 9968), max. reported age: 25 years

**Environment:** benthopelagic, oceanodromous (Ref. 51243); brackish, marine, depth range 0 - 600 m

**Climate:** temperate, 0 - 20°C, 79°N - 32°N, 95°W - 63°E

**Importance:** fisheries: highly commercial, aquaculture: commercial, gamefish: yes

**Resilience:** Medium, minimum population doubling time 1.4 - 4.4 years (m=0.2-1.1; also Musick et al. 2000 (Ref. 36717))

**Distribution:** North Atlantic: Cape Hatteras to Ungava Bay along the North American coast; east and west coast of Greenland; around Ireland; coasts of Europe from the Bay of Biscay to the Barents Sea, including the region around Bear Island.

**Morphology:** **Dorsal spines (total):** 0-0. **Dorsal soft rays (total):** 44 - 55. **Anal spines:** 0. **Anal soft rays:** 33 - 45. **Vertebrae:** 51 - 55. Light lateral line, curved above pectorals. Predorsal distance less than 1/3 of TL. Color varies from brownish to greenish or gray dorsally and on upper sides, becoming pale ventrally. Pentacostean slivery.

**Biology:** This species is widely distributed in a variety of habitats, from the shoreline down to the continental shelf. Cod form schools during the day. Cod are omnivorous; they feed at dawn or dusk on invertebrates and fish, including young cod. Cod spawn once a year. They are marketed fresh, dried or salted, smoked and frozen; they are eaten steamed, fried, broiled, baked, microwaved and baked (Ref. 9968). The most important stocks are



# 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 EAISNA 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 <i>East Coast North America Strategic Assessment Project, Groundfish Atlas for the East Coast of North America.</i> . . Retrieved 2007-05-10 from <a href="http://www.iobis.org">http://www.iobis.org</a>
3	Taxonomic coverage*	Invertebrates: Arthropoda: Crustacea: Malacostraca: Decapoda: "Decapods (shrimp, lobsters, crabs)" Invertebrates: Mollusca: Cephalopoda: Sepiolidia, 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, temporal and spatial coverage of data available from OBIS.

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

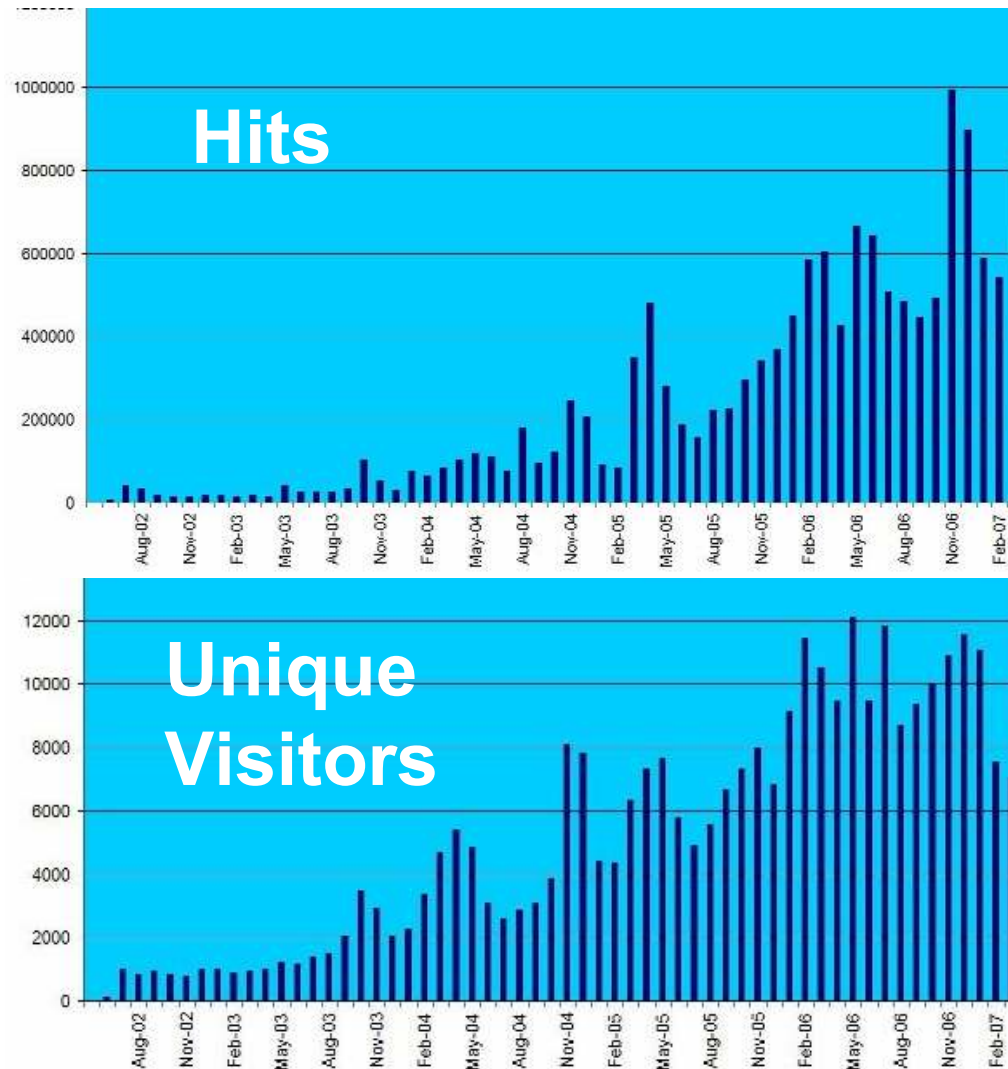
# OBIS Technology

- 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

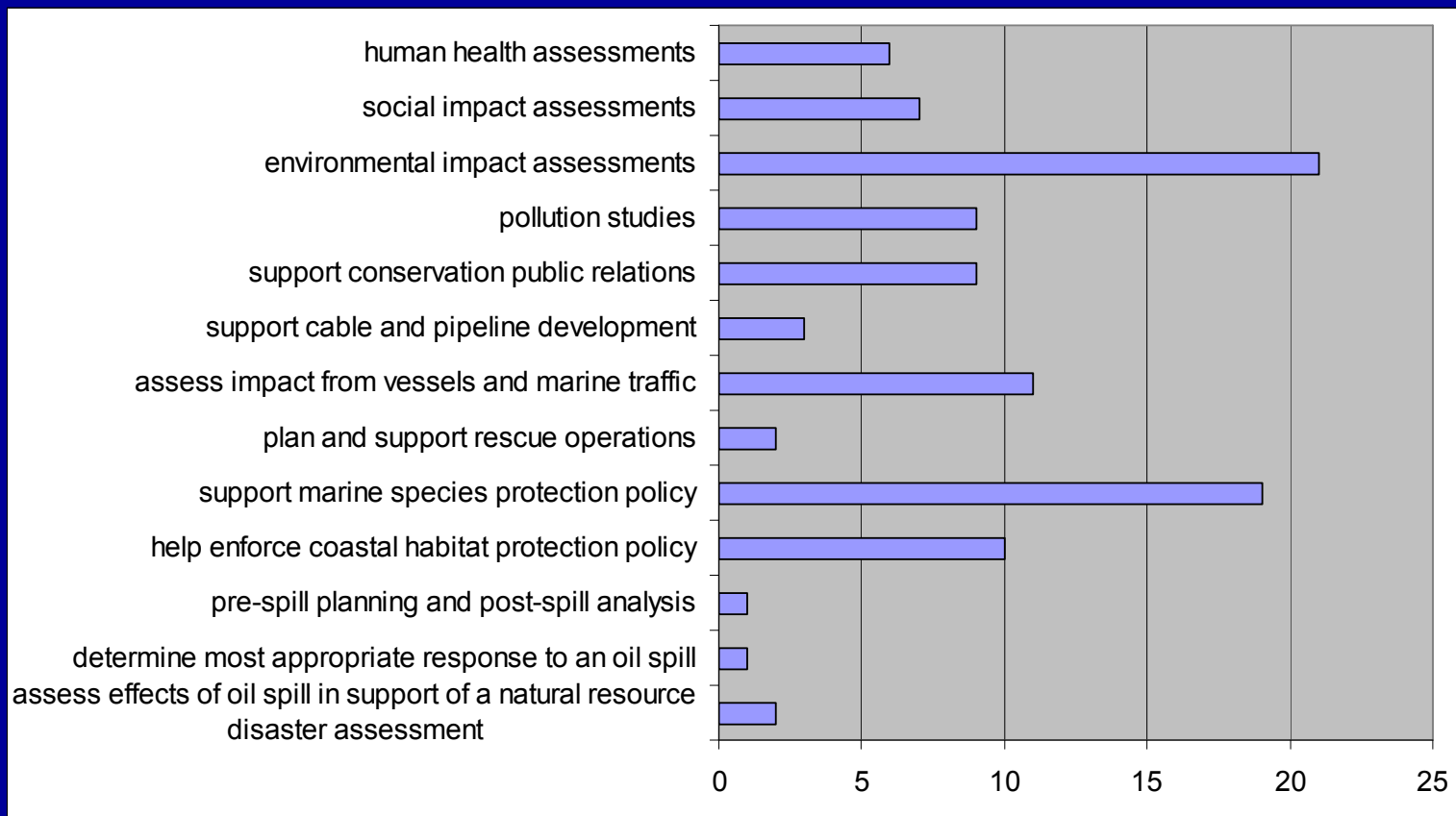
# OBIS Record Schema

- 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](http://www.iobis.org) and participate.



# Regional OBIS Nodes (RONS)



navigation

- Home
- About IOBIS
- Taxonomic Standardization
- Data Collections
- Members
- News
- Events
- Groups

log in

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Password

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[New user?](#)

## Three Oceans of Biodiversity

by [Bob Branton](#) — last modified 2007-04-25 16:32

### **OBISCanada is a Regional OBIS Node**

**OBISCanada** provides marine species data to the [Ocean Biogeographic Information System \(OBIS\)](#) which is the data management component of the [Census of Marine Life](#) and main contributor of marine species data to the [Global Biodiversity Information Facility](#). OBISCanada metadata is managed by the [Global Change Master Directory](#).

### **OBISCanada is hosted by:**

- [Centre for Marine Biodiversity](#)
- [Bedford Institute of Oceanography](#)
- [Dalhousie University](#)

### **OBISCanada ensures data are:**

- [Authoritative](#)- describing specimens and observations using reliable species names and hierarchical classifications.
- [Discoverable](#)- listing data collections and their characteristics in a searchable catalogue system.
- [Accessible](#)- serving data as part of a global geo-referenced ocean information system on marine species.
- [Interoperable](#)- visualizing and analyzing data from several different sources and disciplines.

[Click here or on the logo to go to IOBIS.org ...](#)



# Authoritative, Discoverable, Accessible, Interoperable

**Taxonomic Standardization**

Information regarding taxonomic standardization and updates to the Integrated Taxonomic Information System (ITIS). As of April 11, 2007 there are sixteen (16) data sources that were completed April 18, 2007 and will be updated to OBIS. The following table shows the number of taxonomic names confidence their associated count by taxonomic levels. Fa species to the species and two (2) were provided only to the outstanding number is the number of provided taxonomic the Integrated Taxonomic Information System (ITIS). The provided to data source owners for feedback.

RESOURCE_NAME	TOTAL SPECIES	GENUS	FAMILY	ORDER
ACORN	36	36	0	0
APC	3,035	2,055	580	150
ARCTICSEABIRDS	171	71	61	6
BOWEN	3,381	2,028	38	0
CMN	1,389	1,278	0	0
ENESSNA	136	125	0	13
ECOMP	9	8	0	0
BOWENP	274	268	2	0
G4E	2,051	1,001	532	185
SHMP	434	247	88	0
EMBENTHOS	137	84	35	9
MARAVALE	25	25	0	0
MDA	39	38	4	0
MSR	90	88	4	4
POST	5	5	0	0
WISDLUTE	8	2	3	0

A Global Change Master Directory Portal for OBIS Canada  
Three Oceans of Biodiversity

**OBIS OCEAN BIOGEOGRAPHIC INFORMATION SYSTEM**

EXPLORE DATA ON LOCATIONS OF MARINE ANIMALS AND PLANTS  
Obtain data tables, maps and predict distributions using environmental information.

12.1 million records of 79000 species from 206 databases

SEARCH BY NAME  
"Great white shark" or "Centarodon"

SEARCH BY GEOGRAPHY  
Click on the map

**Data Collections**

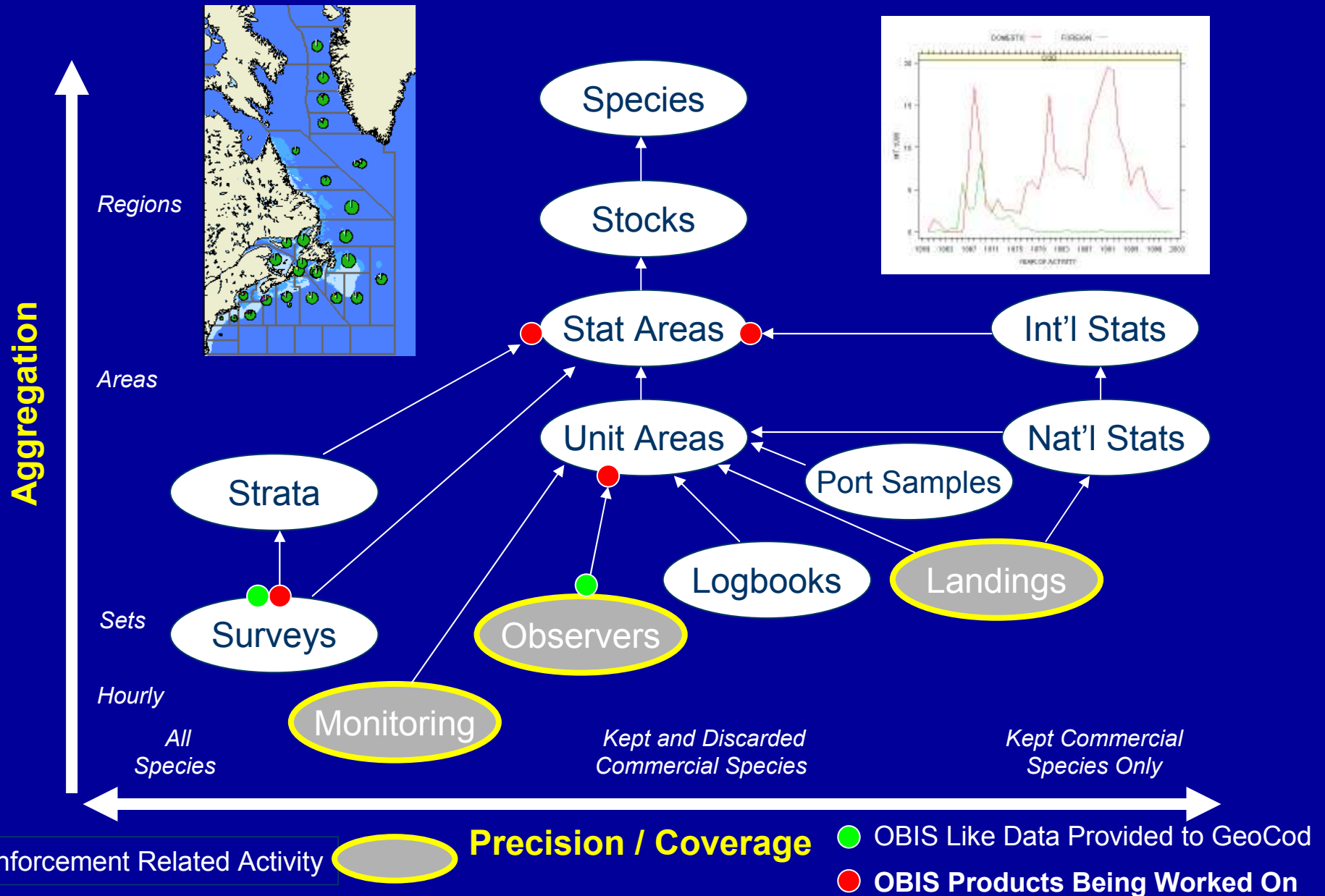
Collection Name	Year(s) Collected	Thumbnail Map Image
1. Atlantic Canada Conservation Data Center	2005-2007	[Map]
2. Marine Reference Center	1980-1990 (current)	[Map]
3. Bay of Fundy Species Information System	1990-1995	[Map]
4. Coastal Marine Program (Atlantic Fisheries)	1980-1995	[Map]

```

http://www.iobis.org/OBIS
Gmail - using obis digir s... Ocean Biogeog
index|Res_name|Scientificname|Institutioncode|
1|NODC|Anoplopoma fimbria|NODC|1244303|48.46|
2|NODC|Anoplopoma fimbria|NODC|1135951|48.82|
3|NODC|Anoplopoma fimbria|NODC|1136047|48.55|
4|NODC|Anoplopoma fimbria|NODC|1136015|48.67|
5|NODC|Anoplopoma fimbria|NODC|1136367|48.53|
6|NODC|Anoplopoma fimbria|NODC|1136303|48.55|
7|NODC|Anoplopoma fimbria|NODC|1136399|48.55|
8|NODC|Anoplopoma fimbria|NODC|1136431|48.55|
9|NODC|Anoplopoma fimbria|NODC|1136527|48.57|
    
```

Coming Soon:  
Desktop access for 'R'  
Statistical Environment

# Overview of Marine Fisheries Data



# Observer Discovery Metadata

NASA GODDARD SPACE FLIGHT CENTER + Visit NASA.gov

Global Change Master Directory  
Discover Earth science data and services

Home Data Sets Data Services Collaborations Add to GCMD What's New Participate Conferences Links


Record Search Query: [Discover/Oceans/Canada/DFO\\_MaritimeIndustrySurveyData](#)

**DFO Maritimes Industry Survey Data Base**  
Entry ID: [Canada\\_DFO\\_MaritimeIndustrySurveyData](#)

Science Keywords  
OCEANS > AQUATIC SCIENCES > FISHERIES

ISO Topic Category  
OCEANS  
BIOTA  
Platform  
SHIPS

Summary  
Department of Fisheries and Oceans (DFO) at-sea fish commercial fishing vessels operating in Canada's east Economic Zone (EEZ). Data are collected by trained fish industry technicians. The program provides extremely detailed information on the type of gear used, size of...

Geographic Coverage  
  
Spatial coordinates  
N: 70.0 S: 24.0 E: -18.0 W: -73.0

Data Set Citation  
Dataset Creator: Population Ecology Division  
Dataset Title: DFO Maritimes Industry Survey Data Base  
Dataset Release Place: Bedford Institute of Oceanography  
Online Resource: <http://www.mar.dfo-mpo.gc.ca/ships/> [Click to close](#)

Location Keywords  
OCEAN > ATLANTIC OCEAN > NORTH ATLANTIC OCEAN  
OCEAN > ATLANTIC OCEAN > NORTH ATLANTIC OCEAN  
OCEAN > ATLANTIC OCEAN > NORTH ATLANTIC OCEAN  
OCEAN > ATLANTIC OCEAN > NORTH ATLANTIC OCEAN  
OCEAN > ATLANTIC OCEAN > NORTH ATLANTIC OCEAN  
CONTINENT > NORTH AMERICA > CANADA

Auxiliary Keywords  
COMMERCIAL FISHING GEAR  
VISUAL OBSERVATIONS  
MARINE REPTILES

Data Set Progress  
IN WORK

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Fisheries and Oceans, Canada  
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**Distribution**  
Fees: Cost of query development

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Postal Code: B2Y 3V4  
Country: CA  
[Click to close](#)

**Related URL**  
Link: [GET DATA](#)  
[Click to view more](#)

**Metadata Name and Version**  
Metadata Name: CEOS IDN DIF  
Metadata Version: VERSION 9.7

**Creation and Review Dates**  
DIF Creation Date: 2006-08-02  
Future DIF Review Date: 2007-05-14

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[View Text Only Format](#)

[ [View Brief Record](#) ] [ [Get Data](#) ] [ [Update this Record](#) ]

# 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](http://www.iobis.org), for example:

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

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

2. Provide [obissupport@marine.rutgers.edu](mailto: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 1-802-426-1506)

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 \_\_\_\_ mth \_\_\_\_ dth \_\_\_\_  
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	Fac:
Client Signature	Date:

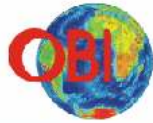
File Number: \_\_\_\_\_ Date: \_\_\_\_\_

# 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 😊





## Ocean Biodiversity Informatics

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

home members news events

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

### log in

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#### Password

log in

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New user?

## Welcome to the OBI'07 conference portal

by [zopemar](#) — 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'07 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.