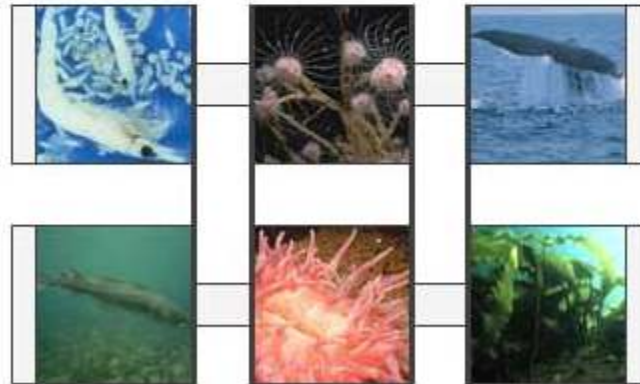


# Three Oceans of Biodiversity

Welcome from ...



a non-profit society established to enhance scientific capacity in support of the protection of marine biodiversity, with a focus on the Northwest Atlantic.

# Some of you may recall ...



## **Report of Workshop on Open Standards Access to Biological Data at the Bedford Institute of Oceanography**

*Sponsored by: Centre for Marine Biodiversity*

Held in George Needler Boardroom at the Bedford Institute of Oceanography on November 27, 2003.

... CMB recognizes the importance of publishing marine biodiversity data via international standards and expects to strongly influence and in doing so to effectively lead development of a Canadian Ocean Biogeographic Information System (OBIS) portal. BIO, as part of the Canadian Geospatial Data Infrastructure (CGDI), is presently installing data provider and web mapping services, such that marine biological and fisheries data from DFO as well as CMB member sources can be published via the OBIS International and Global Biodiversity Information Facility (GBIF) systems...

# Since then, there has been progress...

marine biodiversity - Google Search - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.google.com/search?q=marine biodiversity

Getting Started Latest Headlines Zope on http://192.16... /tech/provider/ Gmail - Inbox (2)

Sign in

Google Web Images Groups News Froogle Maps more »

marine biodiversity Search Advanced Search Preferences

Web Results 1 - 10 of about 21,600,000 for **marine biodiversity**. (0.09 seconds)

Centre for **Marine Biodiversity**  
CMB hosted databases. ... :: english :: fran g ai ::  
[www.marinebiodiversity.ca/](http://www.marinebiodiversity.ca/) - 2k - Cached - Similar pages

Centre for **Marine Biodiversity**  
Centre for **Marine Biodiversity**.  
[www.marinebiodiversity.ca/home.html](http://www.marinebiodiversity.ca/home.html) - 2k - Cached - Similar pages  
[ More results from www.]

Oceanlink | **marine science**  
Some of these pages were creat  
at the Bamfield **Marine Science**  
[oceanlink.island.net/oinfo/biodiv](http://oceanlink.island.net/oinfo/biodiv)

**Marine Biodiversity - Biodiversity**  
**Marine Biodiversity** in New Zealand - definition, value, threats and international obligations.  
[www.biodiversity.govt.nz/seas/biodiversity/index.html](http://www.biodiversity.govt.nz/seas/biodiversity/index.html) - 25k - Cached - Similar pages

Sponsored Links

**Marine Species**  
Search EarthTrends Online Database  
For Resources and Information  
[earthtrends.wri.org](http://earthtrends.wri.org)

and a Sea Turtle eCard  
read the word about turtle  
ervation today!  
[w.conservaion.org](http://w.conservaion.org)

**Marine Biodiversity**  
terns and Processes  
Only \$140.00. (or order used).  
[Amazon.com](http://Amazon.com)

Done

CMB is #1 on Google because we created Dublin Core metadata.

... much of it to do with metadata.

# Discovery Metadata for 15 collections ...

Part of the OBIS Master Directory Portal created and maintained by NASA's Global Change Master Directory staff using CMB metadata harvested from Geoconnections ...



OBIS Canada is one of 10 OBIS Regional Nodes, with OBIS being the prime source of marine species data to the GBIF.

Centre for Marine Biodiversity

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

Locations > OCEAN

Refine by Category  
Please select a field

Refine by Free text

Show All Titles for OCEAN (14)

[ARCTIC OCEAN](#) (5)

[ATLANTIC OCEAN](#) (10)  
north atlantic ocean ...

[PACIFIC OCEAN](#) (4)  
north pacific ocean , western pacific ocean ,  
eastern pacific ocean ...

NASA Privacy Policy and Important Notices  
Responsible NASA Official: Lola Olsen · Editor: Gene Major  
Contact GCMD User Support for assistance

# Canada's Three Oceans of Biodiversity

CMB/BIO - Symposium on Using Metadata Standards to Achieve Data Interoperability, June 13-14, 2006.

Robert M. Branton, Richard Eisner and Lenore Bajona, Bedford Institute of Oceanography.

## Gwaii Haanas Invertebrates



23,315 records, 2,851 species

## Resolute Passage



3,428 records, 8 species

## Canadian Museum of Nature



39,897 records, 1,507 species

## Davis Strait



9,767 records, 170 species

## Atlantic Reference Centre



125,272 records, ~2,000 species

## Gwaii Haanas Marine Plants



6,351 records, 433 species

## Pacific Ocean Shelf Tracking



11,062 records, 6 species

## Other data sources:

Atl. Canada Conservation Data Ctr. - 1,365 records, 15 species  
East Coast Benthic Macro Fauna - 5,650 records, 5 species  
Electronic Atlas of Ichthyoplankton - 4,106 records, 176 species  
Grand Manan Basin - 244 records, 138 species  
Marine Invertebrate Diversity Initiative - 295 records, 35 species  
N. S. Museum of Natural History - 514 records, 96 species.



## East Coast North America Strategic Assessment



446,734 records, 276 species

## Canadian Maritime Cetacean Sightings



22,783 records, 25 species

## Acknowledgements:

Jerry Black<sup>1</sup>, Patrice Boivin<sup>1</sup>, Shelley Bond<sup>1</sup>,  
Derek Broughton<sup>1</sup>, Lesley Carter<sup>2</sup>,  
Catherine Duckett<sup>3</sup>, Jim Gale<sup>1</sup>,  
Melanie Meaux<sup>4</sup>, Phoebe Zhang<sup>3</sup>,  
and Lou Van Guelpen<sup>5</sup>.  
<sup>1</sup>BIO, <sup>2</sup>CMB, <sup>3</sup>OBIS, <sup>4</sup>GCMD, <sup>5</sup>ARC.

# Data Sets Under Development

- DFO Maritime Region
  - Bras D'or and Sydney Bight Trawl Surveys
  - Up to date Research Trawl Surveys
  - Gulf of Maine Benthic Discovery Corridor
  - Observer Program
- DFO Pacific Region
  - Shrimp Trawl Survey
  - Tanner Crab Survey

# Conference Announcement

## Ocean Biodiversity Informatics '07

BIO , November 26-28th 2007

*The unifying themes will be enhancing data quality assurance and extending the range of information products that biodiversity informatics practitioners must be developing and delivering to satisfy the needs of users on many different levels (e.g. general public, academics, decision makers, and industry). In other words, translating the data housed in databases into products that are useful for society in general and decision makers in particular. Our primary challenge will be to see ocean biodiversity data made useful beyond satisfying the curiosity of the principal investigator.*

*M. Costello, E. Vanden Berghe, R. Branton, R. Eisner, J. Gillin*

