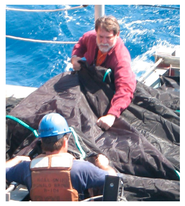
Biological & Chemical Oceanography Data Management Office

Introduction

Office Description

The Biological and Chemical Oceanography Data Management Office (BCO-DMO) was created to serve PIs funded by the NSF Biological and Chemical Oceanography Sections as a location where marine biogeochemical and ecological data and information developed in the course of scientific research can easily be disseminated, protected, and stored for short and intermediate time-frames. Our main objective is to support the scientific community through improved accessibility to ocean science data.

Data Stewardship



The BCO-DMO manages the US JGOFS and US GLOBEC data collections, data from new programs, including initial programs associated with the OCB DMO (CARIACO, EDDIES, MedFlux, SOFeX, VERTIGO), and new data sets from individual scientific investigators and collaborative groups of investigators. The office will continue to make these available via any standard web browser. The JGOFS/GLOBEC distributed, object-oriented, relational data management system software, including OGC compliant Web Services, will be used to serve data and information to research investigators as well as the larger community.

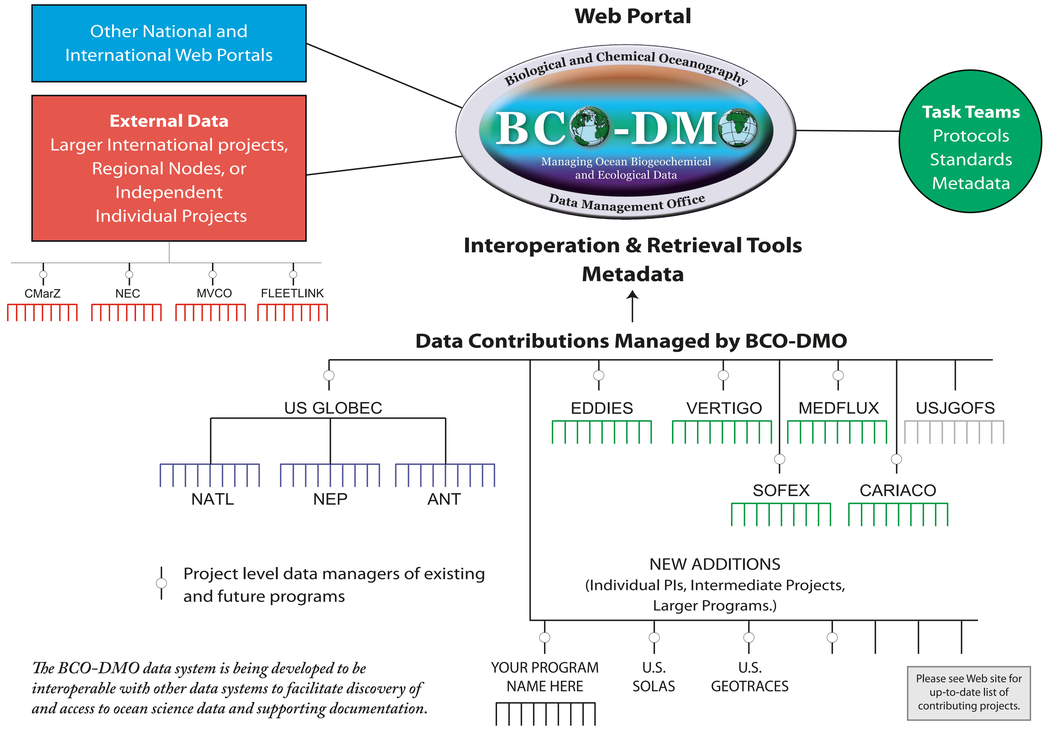
Collaboration

- Work with principal investigators on data quality control;
- Maintain an inventory of available data and program thesaurus based on a controlled vocabulary;
- Generate metadata records required by Federal agencies;
- Ensure submission of data to national data centers; support and encourage data synthesis by providing new, online, web-based display tools;
- Facilitate interoperability among different data portals;
- Facilitate regional, national, and international data and information exchange.

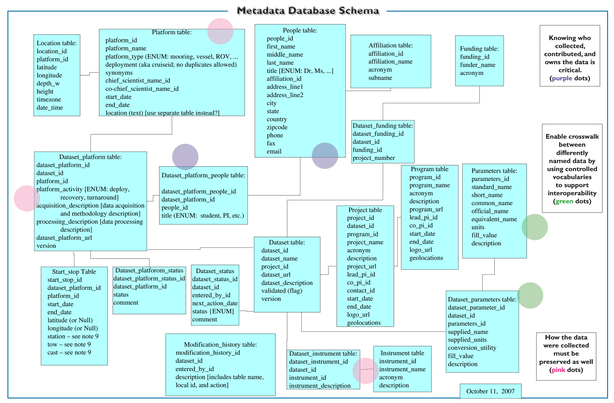
Metadata — Cruise Report • Event log • Methodology Documentation

Supporting documentation is essential for efficient and accurate reuse of data.

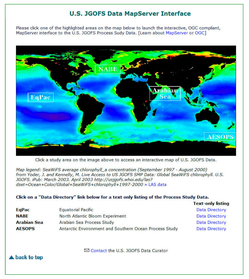
For a multi-disciplinary sampling program conducted aboard a research vessel, a sampling event log and cruise report constitute an important part of the final results and greatly enhance the value of the published data.

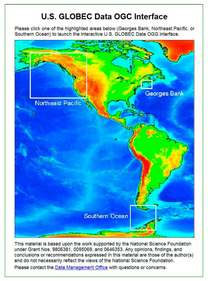


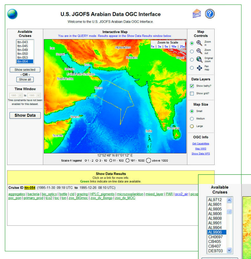
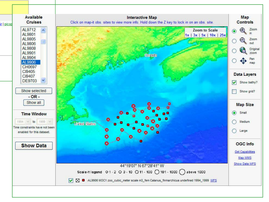
The BCO-DMO data system is being developed to be interoperable with other data systems to facilitate discovery of and access to ocean science data and supporting documentation.



Visualization



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