BCO-DMO Data Management Architectural Overview

Metadata Database and Web Content

Public access via Drupal
Web content and metadata

Data Manager access
Metadata and web content insert, update, delete and display

Perl Library
Perl code calling REST API via Drupal

JGOFS/GLOBEC Backend Data Storage and Retrieval

Supporting Software
- Drupal
- PHP, Perl
- Load navigation and date information into Location table (Perl)
- Report modules
- NSF Tracker subsystem

BCO-DMO Website

Geospatial Access
MapServer-cartography
OpenLayers-interface; interrogate and draw features
ExtJS and other JavaScript libraries-environment
MySQL-metadata

Highlights
Text based interface; Geospatial (MapServer) interface; Metadata database stored in Drupal CMS; Distributed backend data management system; Fitness for purpose tools in MapServer and JGOFS/GLOBEC; Browser clients, also distributed; Ability to support other data management backends; Semantic elements (contributed vs standard names); Advanced search using triple stores from several sources; No login required; Access to metadata; Access to actual data; Data manager interface via Drupal; Direct transfer of data and metadata to appropriate national archive, such as NODC, when data are final.