NOAA 2012 EDM Conference Breakout Session

# Ocean Biological & Chemical Data

**Session Time**
**Wednesday, May 16**
9:00 AM to 12:00 PM

**Session Co-chairs**
**Hernan Garcia**, NOAA NESDIS, NODC
**Krisa Arzayus**, NOAA NESDIS, NODC

**Other Presenters**
**Troy Kanemura**, NOAA NMFS
**Hassan Moustahfid**, US IOOS
**Cyndy Chandler**, BCO-DMO, WHOI
**Todd O'Brien**, NOAA NMFS
**Dave Whitall**, NOAA NOS
**Jim Sargent**, NOAA NMFS
**Isaac Kaplan**, NOAA NMFS

**Rapporteur**
*Erin Robinson, ESIP*

**Session Abstract**
Managing access, discovery, value-added, and scientific stewardship of scientific biological and chemical data at NOAA requires a multi-disciplinary integrated approach. This approach requires scientists and data managers to work closely to integrate data and information across multiple observing systems and temporal and spatial scales about ecosystems. We hope to utilize this session to develop a data management framework to improve sharing and integrating biological and chemical information across NOAA in ways useful for decision making.

**Summary Agenda**

9:00 to 9:05 **Welcome to Ocean Biological & Chemical Data**
*Hernan Garcia, NOAA NESDIS*

9:05 to 9:20 **Data Download Tool for the NOAA Coral Reef Ecosystem Division's (CRED) biological data**
*Troy Kanemura, NOAA NMFS*

9:20 to 9:35 **U.S. Integrated Ocean Observing System (U.S. IOOS): Improving Biological Observing Data Integration and Dissemination**
*Hassan Moustahfid, US IOOS*

9:35 to 9:50 **Integrating data: A case study from the US GLOBEC and US JGOFS programs**
*Cyndy Chandler, BCO-DMO, WHOI*

9:50 to 10:05 **The COPEPOD Project**
*Todd O'Brien, NOAA NMFS*

10:05 to 10:20 **Consideration/lessons learned from the National Status and Trends Program as it relates to integrating biological and chemical data**
*Dave Whitall, NOAA NOS*

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| 10:20 to 10:35 | **Scientific Stewardship and Integration of Ocean Acidification Data**<br>*Krisa Arzayus et al, NOAA NESDIS* |
| 10:35 to 10:50 | **Enterprise Data Management (EDM): NOAA Fisheries' enterprise-wide approach for managing data**<br>*Jim Sargent, NOAA NMFS* |
| 10:50 to 11:05 | **Data needs for Integrated Ecosystem Assessments: an end-to-end modeling perspective**<br>*Isaac Kaplan, NOAA NMFS* |
| 11:05 to 11:15 | **Break** |
| 11:15 to 12:00 | **Open Discussion Portion**<br>The audience and presenters are cordially invited to participate in a open discussion to exchange ideas and lessons learned about the role of NOAA in scientific stewardship of the Biological and Chemical data. What can we do to improve transparent and timely data access, discovery, and data integration? By data integration we mean providing a data service that combines data (and metadata) across NOAA. Would a Biological and Chemical Data steering committee be useful to help coordinate across NOAA? |
| **Topic Abstracts** | **U.S. Integrated Ocean Observing System (U.S. IOOS): Improving Biological Observing Data Integration and Dissemination**<br>*Hassan Moustahfid, US IOOS*<br>*This is a multi-agency, multi-partners effort to bring Federal, States agencies, Academic and Industry together to share/integrate their biological observing data (e.g. Fisheries Independent Surveys, Acoustic Surveys and Animal Telemetry data) using U.S. IOOS Data Management and Communication (DMAC) conventions and guidelines for standardized data access services, data formats, metadata, controlled vocabularies and other conventions and enable end users models and applications.*<br>**The COPEPOD Project**<br>*Todd O'Brien, NOAA NMFS*<br>*A successful "integrating data resource" must preserve in itself the identity and acknowledgement of the original data and investigators, it must serve its data in an understandable and immediately usable format to the data user, and it must maintain data integrity and quality throughout this entire process. The COPEPOD Project is an integrated plankton and ecosystems data suite designed to serve equally the original data provider, the data user, and the data itself. While COPEPOD only focuses on a narrow niche of the NOAA data and users market, its fifteen years of experiences and challenges are applicable to all chemical and biological data endeavors.* |

**Enterprise Data Management (EDM): NOAA Fisheries' enterprise-wide approach for managing data**

*Jim Sargent, NOAA NMFS*

*In 2008 the NOAA Fisheries Leadership Council established the EDM program to create a culture in which a "NMFS customers can confidently find, access, and use our data," and, "To effect a cultural change in which all NMFS data are recognized and managed as a core agency resource, on par with financial and human resources." Jim will present an overview of the EDM program and its accomplishments and challenges over the past 3 years.*

**Scientific Stewardship and Integration of Ocean Acidification Data**

*Krisa Arzayus, Hernan Garcia, and Liqing Jiang, NOAA NESDIS*

*To support NOAA's Ocean Acidification Program and the scientific community, the National Oceanographic Data Center (NODC) will serve as the NOAA Ocean Acidification (OA) data management focal point by providing dedicated online data discovery, access, and long-term archival for a diverse range of OA data. This effort seeks to build a collaborative relationship with shared responsibilities among scientists, data managers, and NODC staff towards the implementation of an OA data stewardship system (OADS). This presentation will define scientific stewardship, provide examples of how that will be applied to ocean acidification data, and outline some of the early challenges we face building a comprehensive list of ocean acidification metadata (For information please contact NODC.Ocean.Acidification@noaa.gov).*