

# **DOOS Data Task Team Status and Progress**

**Karen Stocks, on behalf of the Data Team**

# “Particularly where deep ocean data has unique or distinct requirements”

## Deep data are different

- Specialized (meta)data and discovery requirements
- Specialized applications

## Different, but not unique

- Differs in detail, but not in fundamental nature

**Conclusion: Leverage existing infrastructure, communicate needs, fill gaps**

ACTION SC-1.21: Draft a statement on unique or distinct requirements for deep-ocean meta data and data products. -> Should a statement be drafted?

## Promoting FAIR (findable, accessible, interoperable and reusable) practices for deep sea data

- **Endorsed FAIR principles**
  - Is that sufficient?
- **Proposed endorsement of Re3data registry of research data repositories ([re3data.org](https://re3data.org))**
  - Lightweight on repositories; with curation of deep sea label will allow a deep sea repository registry

# Identifying, evaluating, adopting and recommending appropriate best practices, standards for data and metadata, and technologies for deep ocean data

**Began compiling lists of recommended practices, standards, ontologies, etc.**

- But...main observatories are sophisticated. And groups like Ocean Best Practices and OceanTeacher are active.
- Further work deferred until/unless a more specific target is identified.

Documenting the state of deep ocean data preservation and access, and identifying gaps, particularly with respect to GOOS/DOOS EOVS data availability.

Action 24: Conduct a deep ocean data audit (Are delayed-mode data systems capturing data? Audit by country, program, identify contributions to the global challenge, from the major aggregators, track evolution over time. Audit for protocols and standards, QC, connection to aggregators, repositories)

# Audit/Inventory

- **What is the use case for this? What will it enable?**
- **Consider completeness & maintenance challenges**

**Alternative:** Inventory data/information/tool accessibility & usability for a candidate demonstration site, perhaps as part of AccelNet direction.

## **Additional Data-related DOOS action items**

- ACTION SC-1.11: The EOV TTs should draft a prioritized short list of what they need most from the Data TT.

# Terms of Reference

The DOOS Task Team will promote open access to **deep ocean data and information products** to support science and societal needs by:

- promoting and fostering FAIR (findable, accessible, interoperable and reusable) practices for deep sea data, both current and historic, particularly for data necessary to address DOOS priority processes and phenomena.
- promoting GOOS data and information product recommendations and Framework for Ocean Observation within the DOOS observatory operator community.
- identifying, evaluating, adopting and recommending appropriate best practices, standards for data and metadata, and technologies for deep ocean data, particularly where deep ocean data has unique or distinct requirements.
- documenting the state of deep ocean data preservation and access, and identifying gaps, and particularly assessing GOOS/DOOS EOVS data availability.
- fostering capacity building and knowledge transfer for deep ocean data and information management globally, particularly where deep ocean data has unique or distinct requirements.
- assist the science teams in identifying users of deep ocean EOVS data, and their requirements and priorities.
- developing feedback mechanisms from data users to collectors and stewards of deep ocean data



# Membership

## Confirmed

- Stace Beaulieu, WHOI/LTER
- Sheldon Carter / Kioshi Mishiro, ISA
- Harriet Davies, U. Woolongong.  
Expertise in data for policy use
- Patrick Gorringer, EuroGOOS
- Patrick Heimbach, CGCS
- Reyna Jenkyns, ONC

- Katsuro Katsumota, GO-SHIP
- Antonio Novellino, EMODnet
- Jim Potemra, PacIOOS
- Karen Stocks, Chair & IODP / R2R
- Hanieh Saeedi, deep OBIS node
- Harriet Davies, U. Woolongong.

*Due for evaluation/rotation*

## **Additional Potential Membership**

- **ARGO/Deep-ARGO**
- **Representatives from user communities: modeling, policy, legal**
- **Ocean Tracking Network**
- **SOOS**
- **Seismic Array**
- **Tsunami Network**