Tech Training Sub-committee

2020 Virtual RVTEC
Members

- Kristin Beem
- Brett Hembrough
- Gabe Matthias
- Julianna Diehl
- Nick Mathews (outgoing)
- Tony D’Aoust (outgoing)

Space for two new members!
Taking nominations
Email- techtraining@unols.org
Previous Ideas

- Creating our own training
- Identifying training opportunities aboard vessels of the US Academic Research fleet
- A repository of resources built on existing experience and materials
- Recording training sessions
Difficulties

- Creating our own training
  - *Time intensive*
- Identifying training opportunities aboard vessels of the US Academic Research fleet
  - *COVID-19*
- A repository of resources built on existing experience and materials
  - *Data mining is time intensive*
- Recording training sessions
  - *Professionally expensive or time intensive*
So what now?

- Creating our own training
  - *Put on hold and watch for opportunities*
- Identifying training opportunities aboard vessels of the US Academic Research fleet
  - *Standing by for reduced restrictions*
- A repository of resources built on existing experience and materials
  - *Maybe we don’t have to start from scratch- Ocean Best Practices System (stay tuned)*
- Recording training sessions
  - *TBD - Videos from Network Training at OSU*
Additional Next Steps

• Send us your nominations for new committee members!
  ▫ techtraining@unols.org
Bridging the RVTEC and OBPS Communities

Introduction to the Ocean Best Practices System (OBPS)
  o Background and capabilities

Introduction to our initiative:
  o Group members
  o Plan for the development of Best Practices documents for sea-going operations and accompanying decision trees
  o Participation of beta testing of Best Practice documents

Please visit our RVTEC Slack Channel for more Information:
https://unols.slack.com/archives/C01CGJ0C5CN
#rvtec-bestpractices-iode-r2r
Introduction to OBPS

Consists of:

- A permanent OBPS repository hosted by IODE including state-of-the-art semantic discovery and metadata indexing for improved access to best practices
- A peer-reviewed Research Topic Journal in Frontiers in Marine Science
- A web-based and in-person Training and Capacity Development capability based on the IODE OceanTeacher Global Academy
- Community outreach and engagement activities to help users integrate OBPS into their routine work.

Smith, Shawn R., Forucci, Dave, Goes, Joaquim, Hudak, Rebecca, Mishonov, Alexey, Stolp, Laura, Watkins-Brandt, Katie

Data to Record and Provide to Users What do science users want from an underway transmissometer? 4.... It is important to document how your transmissometer is installed on your ship, noting whether or not... water flow into the transmissometer happens downstream of a debubbler and if a flow meter exists to... Underway Transmissometer Cleaning and In-situ Calibration A clean transmissometer is crucial to obtaining...

This best practice document was developed under the Rolling Deck to Repository project by a small working group comprised of the document authors. These recommendations are specifically for transmissometers installed within a research vessel’s (RVs) scientific flow-through sea water (underway) system. They are not focused on transmissometers used for CTD/Rosette casts, though some information may be applicable. All underway transmissometers in the academic research fleet presently are WET Labs (henceforth Sea-Bird) C-Stars. Review of available sensors shows this will continue to be the most reliable and adaptive device. The goal of this document is to provide best practices for operators that will improve access to transmissometer data and metadata to support routine data quality evaluation and science application.

Publisher
Florida State University, Center for Ocean-Atmospheric Prediction Studies
Tallahassee, FL

Document Language
en

Sustainable Development Goals (SDG)
14.A

Maturity Level
TRL 9 Actual system "mission proven" through successful mission operations (ground or space)

Best Practice Type
Best Practice
operators that will improve access to transmissometer data and metadata to support routine data quality evaluation and science application....

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Maturity Level
TRL 9 Actual system "mission proven" through successful mission operations (ground or space)

Best Practice Type
Best Practice

Manual (incl. handbook, guide, cookbook etc)

Citation

http://hdl.handle.net/11329/1275
http://dx.doi.org/10.25607/OBP-790

View Usage Statistics
## Searching the Repository

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OBPS Newsletter Issue 27: September 2020

https://us13.campaign-archive.com/home/?u=ab89e583ff8a6a2e366e1fddf&id=7c6ddfee90

From the Repository - So Easy!

Mark Bushnell, U.S. IOOS

How easy is it to submit a document to the IOC-OBPS repository? Really easy! I took a few notes when submitting a paper recently, which I think doubled the time. It took me thirty minutes, so expect to spend just 15 minutes without taking notes. Within an hour, the paper was accepted into the repository and had been assigned a digital handle. It had been stored on a few hard drives and known to only a few individuals, and now it’s permanently findable, accessible, interoperable, and reusable to the world.

You’ll need to register with the OBPS first, an easy one-time action. And, of course, your first submission will go a bit slower as you navigate the various pages. There are seven pages of questions, but don’t let that scare you, most questions are easy - such as “Title”, “Author”, “Date of Issue”, “Language”, etc. Now, some questions are a
This section allows you to manage the categories and forums on your board. You can manage forum permissions and forum-specific moderators as well. If you change the display order for one or more forums or categories, make sure you submit the form at the bottom of the page.

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Towards a Best Practice for Developing Best Practices in Ocean Observation (BP4BP): Supporting Methodological Evolution through Actionable Documentation

UNESCO

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**Metadata table (non-journal contribution)**

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**Language document title**

- Include a sub-title after a colon (:) and version of the title text (e.g., Version 2.2).

**English document title**

- As not originally in English, please include it in English. If applicable, include a sub-title after a colon (:) and version number after the title (e.g., A Guide to BP4BP: Version 2.2)
OBPS steering group

- Almost all volunteers
- Monthly SG meetings
- Annual OBPS workshops
- Annual SG meeting
- Service provider for you

Front row from left to right - Francoise Pearlman, Jay Pearlman, Cristian Munoz, Rachel Przeslawski and Nick Roden; Second row from left to right - Emma Heslop, Pauline Simpson, Johannes Karstensen, Greg Reed, Ana Lara-Lopez, Juliet Hermes, Sergey Belov, Katherina Schoo, Claudia Delgado and Mark Bushnell.

Unable to attend: Pier Luigi Buttigieg, Kirsten Isensee, Adam Leadbetter, Frank Muller-Karger and Peter Pissierssens
Group Members

Katie Watkins-Brandt
Regional Class Research Vessel- Datapresence and Engineering Support Center (R-DESC)
Sensor Systems Engineer

Kristin Beem
UNOLS Tech Training Committee
RCRV Marine Science Systems Engineer

Shawn Smith
Rolling Deck To Repository
SAMOS Initiative
COAPS, Florida State University

Laura Stolp
Rolling Deck to Repository
Woods Hole Oceanographic Institute
Shipboard Scientific Support Group

Rebecca Hudak
Rolling Deck to Repository
Woods Hole Oceanographic Institute
Shipboard Scientific Support Group

Jay Pearlman, Ph.D. Fellow IEEE
IEEE France
Director, Four Bridges
Ocean Best Practices System Steering Group

Mark Bushnell
National Coordinator, US IOOS/QARTOD
IOC/Ocean Best Practices System Steering Group
US CLIVAR Uncertainty Quantification Working Group

Marine Technicians
We hope many of you join us!
Best Practices for Shipboard Underway Transmissometers

This best practice document was developed under the Rolling Deck to Repository project by a small working group comprised of the document authors. These recommendations are specifically for transmissometers installed within a research vessel’s (RVs) scientific flow-through sea water (underway) system. They are not focused on transmissometers used for CTD/Rosette casts, though some information may be applicable. All underway transmissometers in the academic research fleet presently are WET Labs (henceforth Sea-Bird) C-Stars. Review of available sensors shows this will continue to be the most available and adaptive device. The Goal of this document is to provide best practices for operators that will improve access to transmissometer data and metadata to support routine data quality evaluation and science application.....

Check out the R2R presentation during the UNOLS Session 4: Instrumentation and Data Facilities recording: https://www.youtube.com/watch?v=b-DxJ_pORG0

648 views since publication in April!

https://oceanbestpractices.org
Our Goals

1) Leverage the wealth of knowledge in the marine technician community and encourage participation in the development Best Practice documents related to shipboard scientific sensors.

1) Alongside Best Practice documents, develop decision trees highlighting time-based suggestions for sensor maintenance and field and factory calibrations.

1) Recruit beta testers to try out Best Practice Documents as they become available.
Why Should You Get Involved?

Standardization of Best Practices, to an already demanding job, there is an extra ambiguity of how to care for a sensor in a shipboard setting can be confusing and sometimes overwhelming.

Leverage of Calibration funding, to standardize calibrations across the fleet

Professional Development, through the publication of Best Practices.

You’re the experts and wholly responsible for the care of sensors at sea!
How do You Get Involved?

Complete the survey:  
https://forms.gle/8Lxyo7moiTCJswdEA

Indicate the sensors you are interested in contributing to BP documents.

Indicate if you’re interested in being a beta tester as BP documents are developed.

Share the survey link with colleagues you think may be interested.
Next Steps

Gather Responses to the Survey
Organize Groups and Identify Leads
Documentation of Alternative and Existing Methods
Development of Best Practice Documents
Beta test Best Practice Documents
Publish to OBPS

Please visit our RVTEC Slack Channel for more Information:
https://unols.slack.com/archives/C01CGJ0C5CN
#rvtec-bestpractices-iode-r2r
Acknowledgements