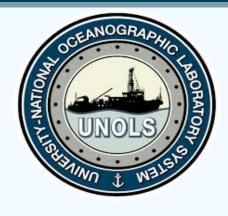


Tech Training Sub-committee

2020 Virtual RVTEC



Members

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

Space for two new members!

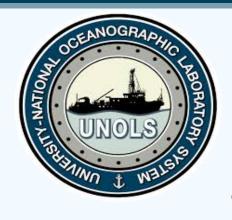
Taking nominations

Email- techtraining@unols.org



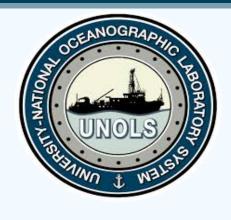
Previous Ideas

- 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



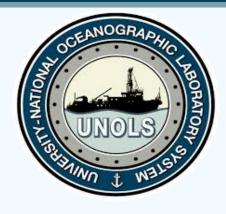
Difficulties

- 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)

Background and capabilities

Introduction to our initiative:

- Group members
- 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



👔 About Repository Journal Training Community Engagement - Publications Projects | News Events Contact 💆

Ocean Best Practices System

Our Vision

To have agreed and broadly adopted methods across ocean research, operations and applications.





What is a Best Practice?

A best practice is a methodology that has repeatedly produced superior results relative to other methodologies with the same objective; to be fully elevated to a best practice, a promising method will have been adopted and employed by multiple organizations.



What is the OBPS?

The OBPS is a global, sustained system comprising technological solutions and community approaches to enhance management of methods as well as support the development of ocean best practices.



Search for a Best **Practice**

1144

Best Practices in the

Submit a Best **Practice**

Best practices are created by the community for the community https://www.oceanbestpractices.org/

Mark.Bushnell@noaa.gov

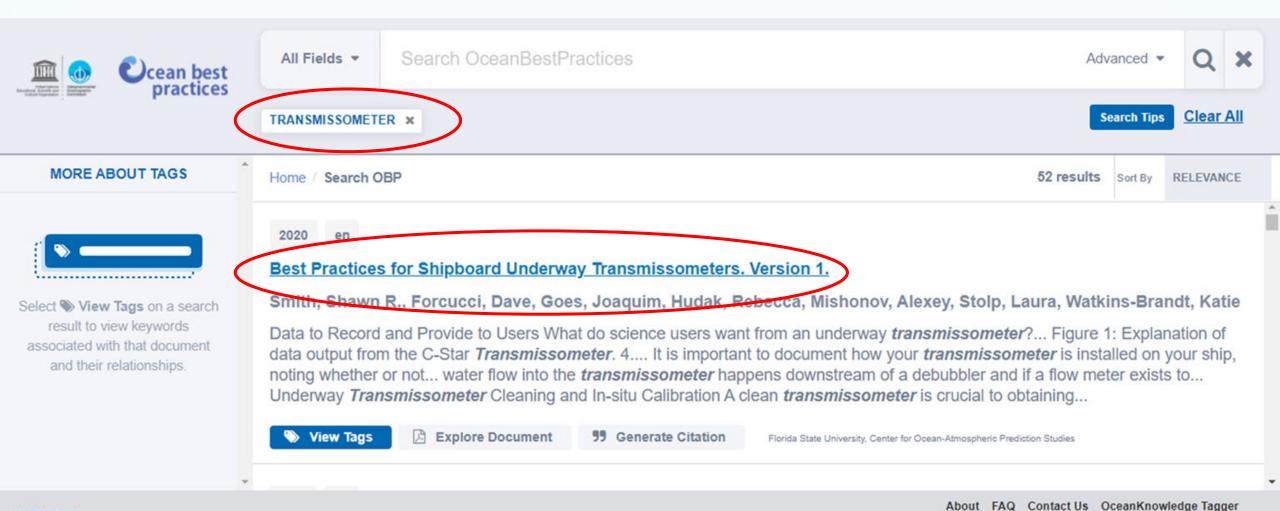


Introduction to OBPS

Consists of:

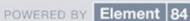
- A permanent OBPS repository hosted by IODE including state-of-the-art semantic discovery and metadata indexing for improved access to best practices
- A peer-reviewed Research Topic Journal in Frontiers in Marine Science
- A web-based and in-person Training and Capacity Development capability based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





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Best Practices for Shipboard Underway Transmissometers. Version 1.



View/Open

PDF (190.4Kb)

Date 2020

Author

Smith, Shawn R. Forcucci, Dave Goes, Joaquim 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......

Publisher

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

Document Language

en

Sustainable Development Goals (SDG)

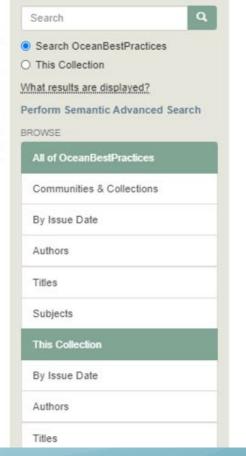
14.A

Maturity Level

TRL 9 Actual system "mission proven" through successful mission operations (ground or

space)

Best Practice Type Best Practice















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Date 2020

Author

Smith, Shawn R. Forcucci, Dave Goes, Joaquim Hudak, Rebecca Mishonov, Alexey Stolp, Laura

Watkins-Brandt Katie

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Status Published

Pages 13pp.

Metadata

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Publisher

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Document Language

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

Manual (incl. handbook, guide, cookbook etc)

Citation

Smith, S.R., Forcucci, D.; Goes, J.; Hudak, R.; Mishonov, A.; Stolp, L. and Watkins-Brandt, K. (2020) Best Practices for Shipboard Underway Transmissometers. Version 1. Tallahassee, FL, Florida State University Center for Ocean-Atmospheric Prediction Studies, 13pp. DOI: 10.25607/OBP-790

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

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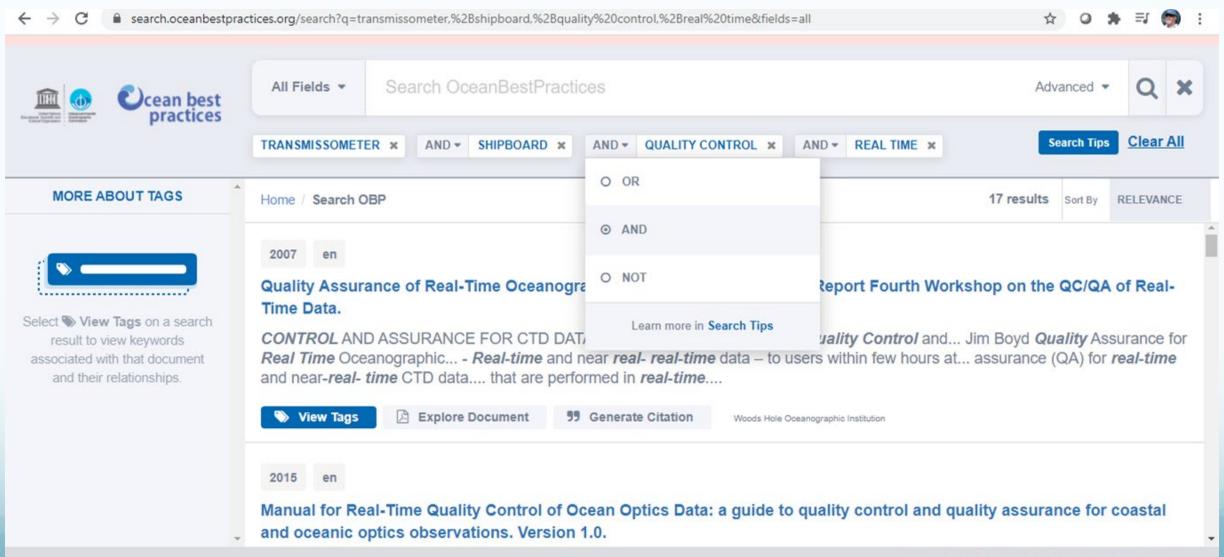
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Repository submission

OBPS Newsletter Issue 27: September 2020

https://us13.campaign-archive.com/home/?u=ab89e583ff8a6a2e366e1fdcf&id=7c6ddfee90

From the Repository - So Easy!

Mark Bushnell, U.S. 100S

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



OBPS forum











forum.oceanbestpractices.org/admin/index.php?module=forum



Logged in as 🤱 administrator | 🌑 View Forum | Log Out 🤿

Home Configuration

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Forum Management

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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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Moorings Sub Forums: Hardware, bio-fouling, corrosion, Modeling	1	Options	
Uncertainty Quantification	1	Options	
Jerico	1	Options	
Omics/eDNA A space to inclusively discuss protocols and BPs for Omics and environmental DNA (eDNA) research - Originated from the OBPS workshop IV 2020	1	Options	

Dawsond D. Murph @ 2002 2020 Murph Course



BP4BP, templates





Intergovernmental Oceanographic Commission Manuals and Guides

84

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

UNESCO

Logo(s) (of Organization(s)/Project etc creating the best practice

Title

Sub-title

Edition/Version Number

Document ID

Authors¹

¹Author Affiliation

Year

Metadata table (non-journal contribution) Oata Sheet v6 (for submissions to www.coeanbestpractices.net)
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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



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Best Practices for Shipboard Underway Transmissometers. Version 1.

Best Practices for Shipboard Underway Transmissometers Dave Femoral (U.S. Coast Guard) Goes (Lamont Doherty Earth Obsension) at Columbia Universi Rebecos Hudak (Woots Hole Crossnoprophic Institution) sov (University of Maryland & NOAA National Centers for Enviro Laura Stolp (Woods Hole Oceanographic Institution Katle Walkins-Brandt (Oregon State University) responding Author: Mr. Shewn R. Smith (accepting/fee,ed) agements: Funding to organize the working group and for contributions to SFIS, RH, and LS provided by the U. S. National Science Foundation's O. Instrumentation and Technical Services Program (grant # OCE-1447797)

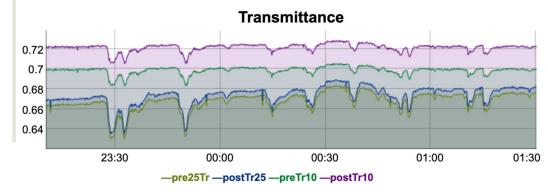
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Check out the R2R presentation during the **UNOLS** Session 4: Instrumentation and Data Facilities recording:

https://www.youtube.com/watch?v=b-DxJ pORGo

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?



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.



Survey- Interest in Ocean Best Practice Development for Shipboard Instrumentation

Our goal is compile a list of technicians & other professionals interested in the development of Ocean Best Practice documents related to sea-going operations and beta testing of best practices.

This presents an opportunity to encourage the RVTEC and OBPS relationship, promote professional development with the publication of best practice documents, while also getting invaluable input from marine technicians.

The participation of technicians is important to us and we hope you consider contributing to these documents. As you complete this survey, please select sensors for which you have access to and expertise in operating.

Upon completion, we will reach out via email with further information.

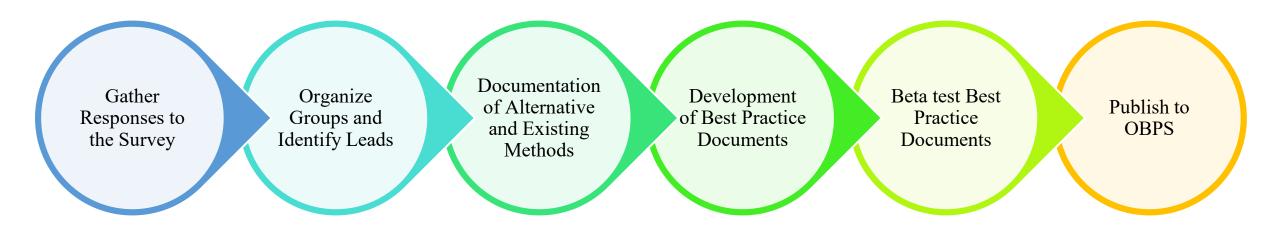
Please send this survey link (https://forms.gle/8Lxyo7moiTCJswdEA) to interested colleagues who work with the sensors listed.

Allow 3-5 minutes to complete this single page survey.

This survey will close on November 20th.



Next Steps



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



Acknowledgements







