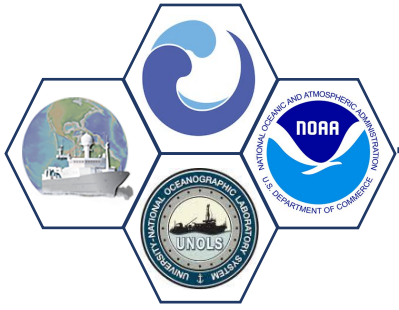




An update on: Developing Best Practices for Sea-going Operations

RVTEC 2023
October 23rd-27th
Honolulu, Hawaii



Who are we and what are we doing?

A group of data managers, scientists, and marine technicians with the common interest of creating best practices for seagoing operations.

Group Members & Working Group Leads



Katie Watkins-Brandt
NOAA | OMAO
Environmental Data Acquisition Manager



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



Kristin Beem
UNOLS Tech Training Committee
RCRV Marine Science Technical Director



Jules Hummon
UHDAS ADCP
University of Hawaii



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



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



Laura Stolp
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



Marine Technicians!



What is the Ocean Best Practices System?

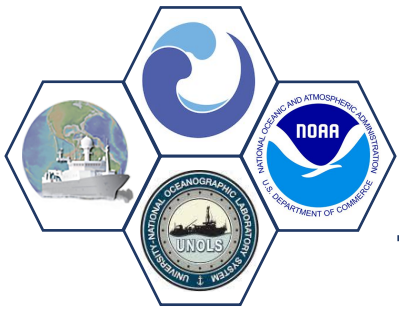
- Ocean Best Practices Systems (OBPS) is a global, sustained system comprising technological solutions and community approaches to enhance management of methods as well as support the development of ocean best practices.
- OBPS partnered with Frontiers to host the repository.
- The first Best Practice that RVTEC folks published was on the C-Star Transmissometers in 2020.



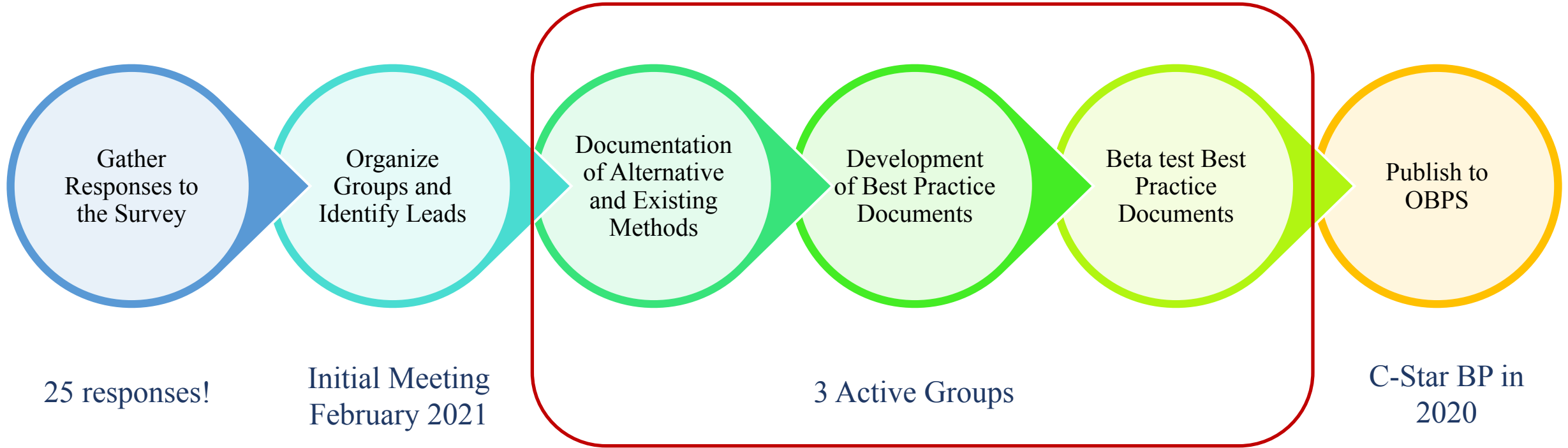
<https://www.oceanbestpractices.org/>

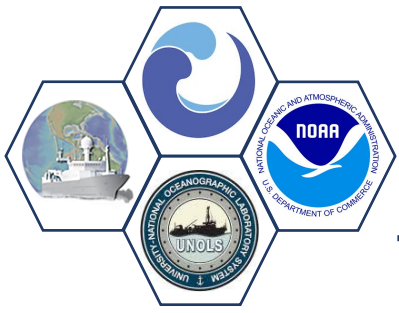
The screenshot shows a search results page on the Ocean Best Practices website. The search term is 'TRANSMISSOMETER'. The results list a document titled 'Best Practices for Shipboard Underway Transmissometers, Version 1' from 2020, authored by Smith, Shawn R., Forcucci, Dave, Goes, Joaquim, Hudak, Rebecca, Mishonov, Alexey, Stolp, Laura, Watkins-Brandt, Katie. The document is from Florida State University, Center for Ocean-Atmospheric Prediction Studies. The page includes navigation links like 'View Tags', 'Explore Document', and 'Generate Citation'.

The screenshot shows the homepage of the Ocean Best Practices website. The header includes navigation links: About, Repository, Journal, Training, Community Engagement, Publications, Projects, Ocean Practices for the Decade, News, Events, Contact/Feedback. The main content area features a large banner with the text 'OBPS Workshop VII' and 'Our Vision: To have agreed and broadly adopted methods across ocean research, operations and applications.' Below the banner are four columns of information: 'What is a Best Practice?', 'What is the OBPS?', 'Best Practices in the Repository', and 'Metrics'. The footer includes the IODE logo, copyright information for 2020, and a 'SUBMIT BEST PRACTICE' button.



Our Approach



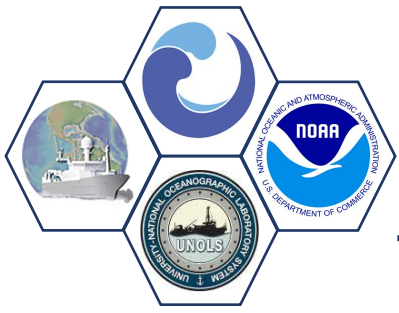


3 Active Working Groups Established

Active Working Groups:

- CTD Profiler, led by Laura Stolp and Rebecca Hudak
- EK80 Fisheries Sonar Suite, led by Rebecca Hudak and Kristin Beem
- General Flowthrough System, led by Shawn Smith





CTD Profiler

Interested?
Email: lstolp@whoi.edu or rhudak@whoi.edu



- Started meeting in September 2021
- Collaboration with Seabird over several meetings
 - including software updates
 - updated cleaning procedures
 - Beta testing of new software
- Working with programmer to develop CTD plotting software (will be available via GITHUB)

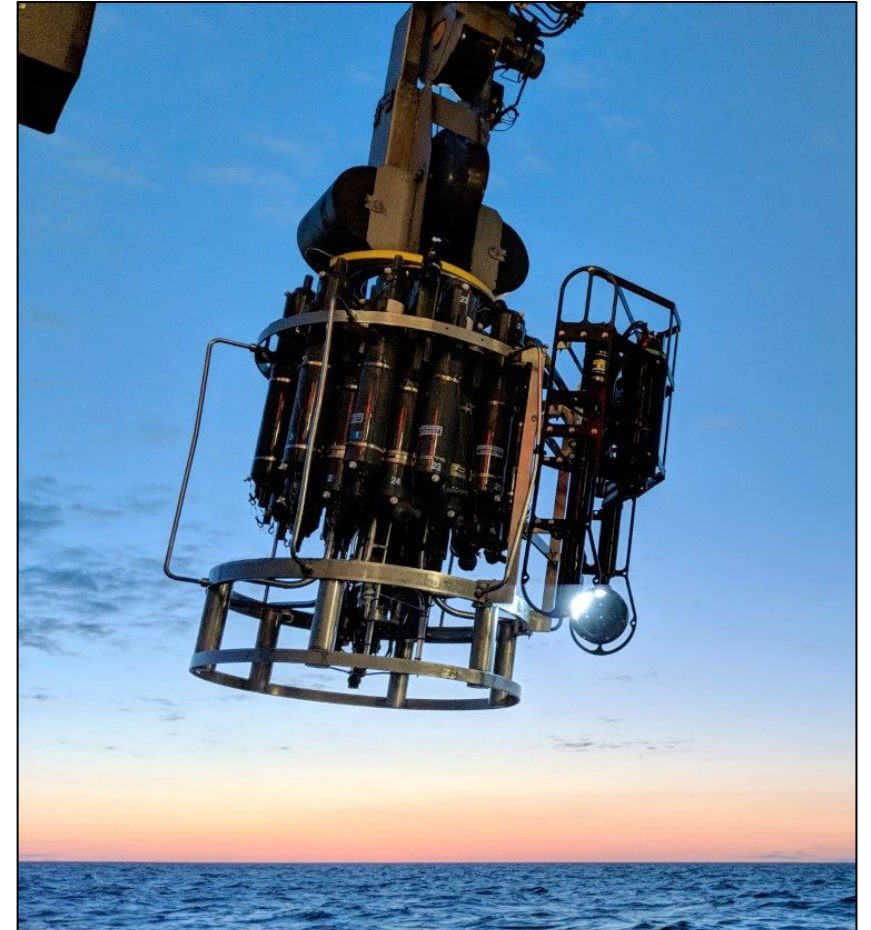


Photo cred: Emily Shimada



EK80 Fisheries Sonar Suite

Interested? Email us!

rhudak@whoi.edu

kristin.beem@oregonstate.edu



- Meet monthly for discussion
- Took a brief break during active sailing season
- Many active members contributing; including those from NOAA, UNH, OSU, URI, and WHOI
- Discussion with Kongsberg reps to answer our big questions
- Email Kristin or Becca for a link to the EK80 draft
- First Draft for EK80 Best Practices- Includes a strong focus on calibrating an EK80 as well as a focus on settings/features to run to get the best data

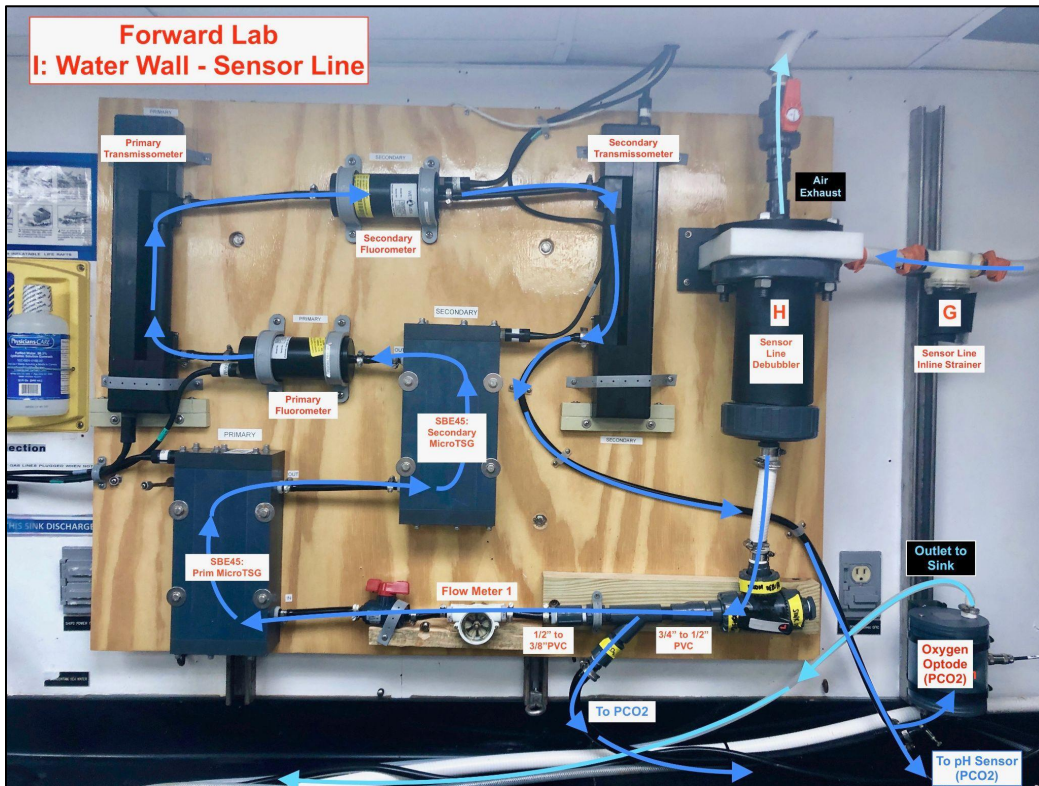




General Flowthrough System

Interested?

Email: srsmith@fsu.edu



Atlantic Explorer flowthrough system with flow direction marked.
Photo courtesy of BIOS.

- Restarted in 2023
- Primary scope
 - Focus on components of flowthrough system
 - Intakes, sea chest, pipes/tubing, pumps, flow meters, debubblers
 - Will not address specific sensors in system, but may recommend sensor placement, orientation, etc.
- New topics
 - How to document intakes in use on cruise
 - Documenting intake location, pipe runs
 - Use of shipboard technical event logs
- Will need input from ship engineering groups and science users

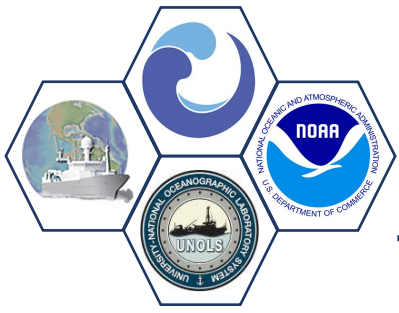


Interested?

Get involved!

- Reach out to the lead of the working group you are interested in joining
 - CTD Profiler: Laura Stolp: lstolp@whoi.edu , Rebecca Hudak rhudak@whoi.edu
 - EK80: Kristin Beem: kristin.beem@oregonstate.edu , Rebecca Hudak rhudak@whoi.edu
 - General Flowthrough System: Shawn Smith: srsmith@fsu.edu
 - Radiometers (international group): Contact Shawn Smith: srsmith@fsu.edu
- Know someone great that may be interested, let them know!
- Interact with us on our Whova channel- Best Practices
https://whova.com/portal/webapp/rvtec_202310/CommunityBoard/topic/1955359





2023 RVTEC Breakout Sessions

- Best Practice Breakouts (Oct 25 @1300 in Garden Lanai)
 - 1300-1400: CTD
 - 1400-1500: EK80
 - 1500-1600: General Flowthrough

Please come and participate in these working sessions!

Check out the polls on Whova for the CTD, EK80, and General Flowthrough