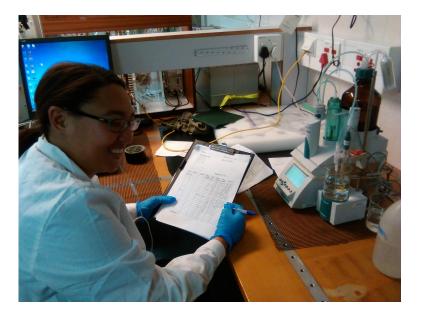


Fifth Pacific Islands Training Workshop on Ocean Observations and Data Applications (PI-5) 27-28 May and 10-11 June 2021 (Fiji Time, UTC+12)



Presented by: Juliet Hermes Email: Juliet@saeon.ac.za









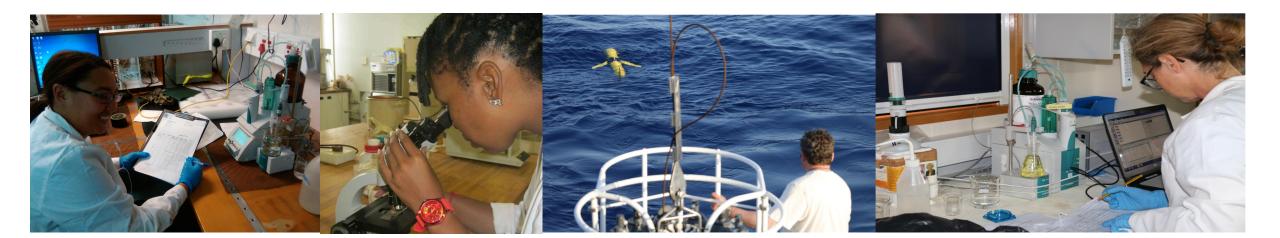




Part 1: A best practice is a methodology that has repeatedly produced superior results relative to other methodologies with the same objective



Part 2: To be **fully elevated to a best practice**, a promising method will have been reviewed, adopted and employed by multiple organizations





Ocean Best Practices

Best practices bring many benefits:

- ✓ Quality and consistency of observations
- ✓ Interoperability of data
- ✓ Efficiency (don't re-invent the wheel)
- ✓ Transparency Data traceability and reproducibility
- ✓ Connections between data, models and applications
- Resource for training and capacity development
 BUT
 - Not all best practice knowledge is documented They are scattered and can be hard to find Difficult to know which is the right one Can be lost when a project ends Promising methods may not be shared Missing incentives that drive community building



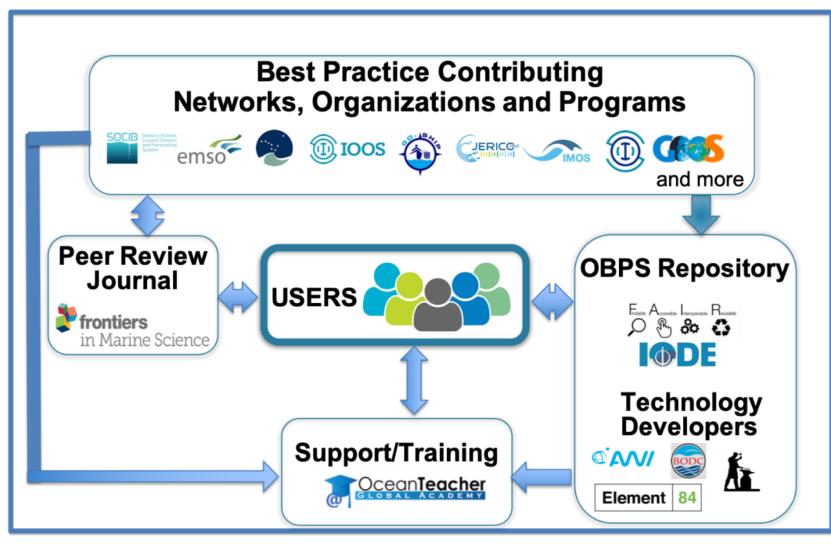
A system is needed for Ocean Best Practices





What is the Ocean Best Practices System?

www.oceanbestpractices.org





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🏦 About Repository Journal Training Community Engagement – Publications Projects || News Events Contact 🎔

Ucean Best Practices System

Our Vision

A future where there are 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?

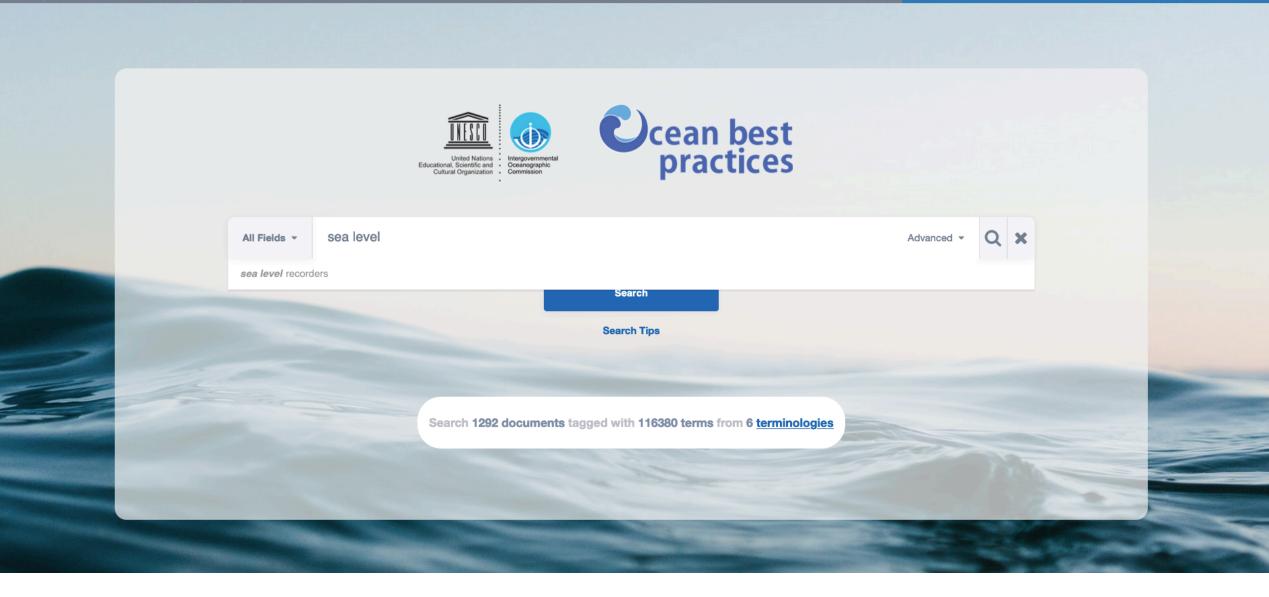
The OBPS is a global, sustained system comprising technological solutions and community approaches to enhance management of methods as well as support the development of ocean best practices.



Search for A Best Practice

Click here to search for a Best Practice at oceanbestpractices.org

Best practices in the Repository

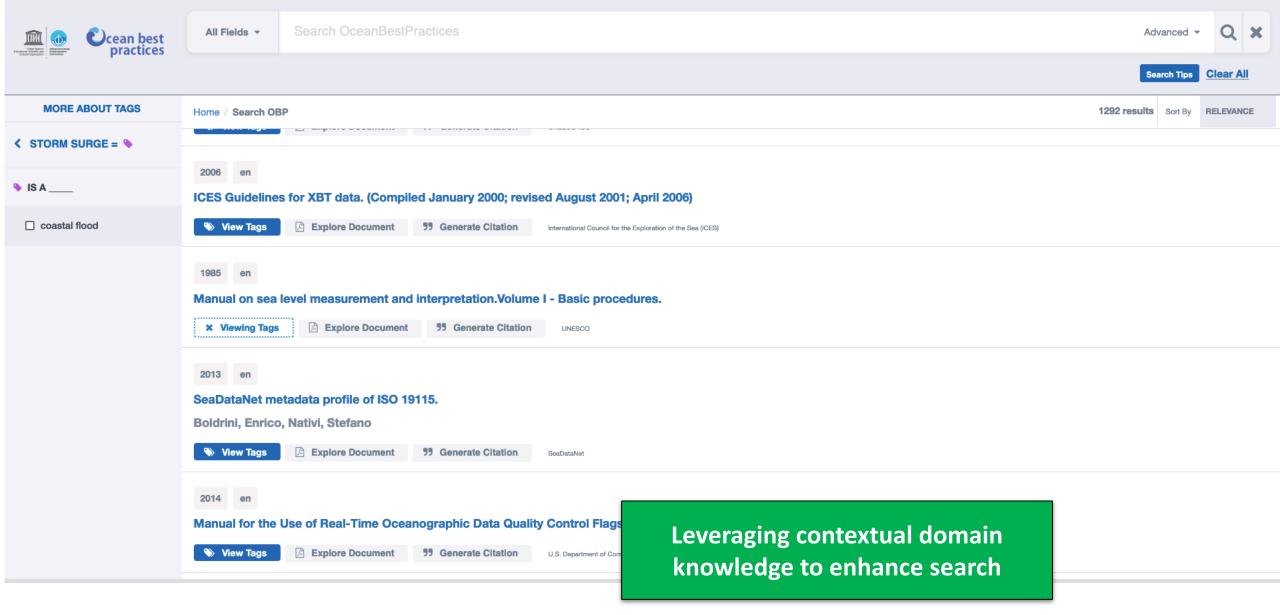








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pressure of air (ENVO)	1985 en						
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Sea >	2013 en SeaDataNet metadata profile of ISO 19115.						
water >	Boldrini, Enrico, Nativi, Stefano						
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	View Tags Explore Document 7 Generate Citation U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Ser						
	The Global Ocean Descring System Ceanographic Exchange						









BP Process Guides and Templates

User Guides

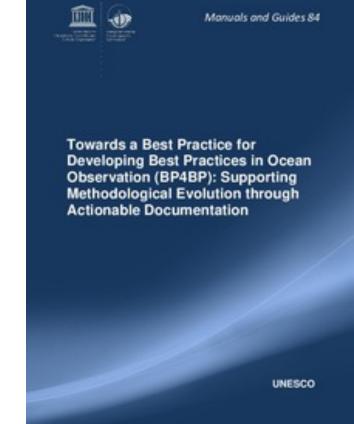
- Guidelines for Depositors
- Guidelines for Editors
- <u>Best Practices for Best Practices</u>

Document Templates (further templates ...)

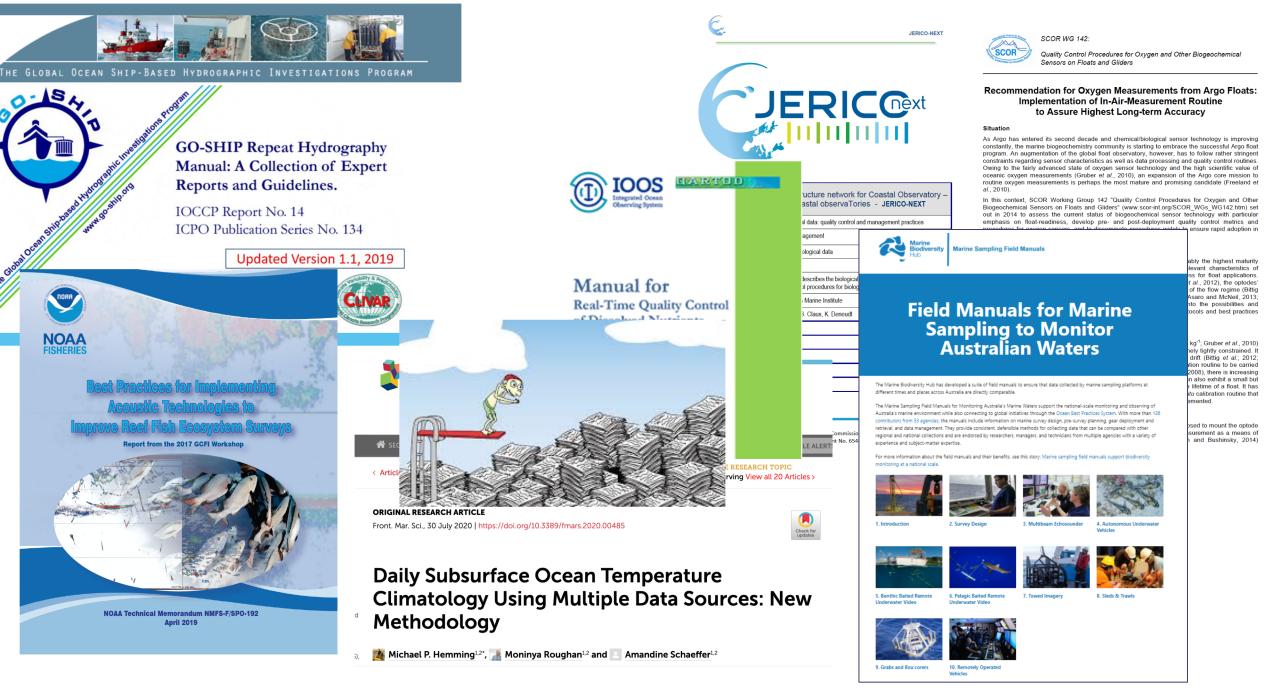
- <u>Sensors</u>
- Ocean Applications
- Data Management

Hörstmann, C.; Buttigieg, P.L.; Simpson, P.; Pearlman, J. and
Waite, A.M. (2021) Perspectives on Documenting Methods to
Create Ocean Best Practices. Frontiers in Marine Science,
7:556234, 5pp. DOI: 10.3389/fmars.2020.556234

Hörstmann, C.; Buttigieg, P.L.; Simpson, P.; Pearlman, J.; Karstensen, J. and Waite, A.M.
(2020) Towards a Best Practice for Developing Best Practices in Ocean Observation
(BP4BP): Supporting Methodological Evolution through Actionable Documentation. Paris,
France, UNESCO, 33pp. (Intergovernmental Oceanographic Commission Manuals and
Guides No. 84). (IOC/2020/MG/84). DOI: http://dx.doi.org/10.25607/OBP-781

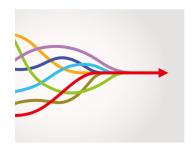








Convergence & Endorsement



- Convergence: process where existing, but fragmented, knowledge is synthesized/converged to create a comprehensive document
 - that may qualify as "Best Practice"



• Endorsement: process where organizations/coordination groups approve documents as the current standard for their operations





The Global Ocean Observing System



To qualify as "GOOS endorsed" a best practice is expected to



- 1. have completed a rigorous community review process
- 2. approved by the leadership of the relevant network
- 3. is fit for the purpose and fully satisfies the definition of a best practice on the OBPS
- 4. has been recognised through the relevant GOOS body
- 5. is available and identifiable within the OBPS repository, or will be submitted as soon as endorsement is received.
- 6. Is updated at relevant timeframes





Home						
Overview	Standards and Best Practice					
Platforms	Best Practice Documents:					
Deployments	Best Practices are defined as 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					
Network Status & Maps	organizations (Pearlman et al, 2019).					
Data	Best Practices have always been an essential component across all areas of the observing system and the Observations Coordination Group (OCG) ocean observing networks are committed to ensuring that their best practices are comprehensive, findable					
Community	and are used.					
Contacts	The WMO Integrated Global Observing Systems (<u>WIGOS</u>), the Intergovernmental Oceanographic Commission of UNESCO (IOC), and the OCG, are seeking increased collaboration with partner organisations towards the objective of harmonized standards, and better traceability of observations to standards. In an ongoing effort to ensure this, DBCP is working at providing best practices for the					
Meetings	life cycle of all Essential C	life cycle of all Essential Ocean Variables (EOVs) observed under the program, for each stage of the observation life cycle.				
Documents	The GOOS Catalogue of Practices and Standards is available via <u>http://bestpractice.iode.org/</u> . The WMO No.8 specifies instrumentations and observations at <u>https://community.wmo.int/activity-areas/imop/wmo-no_8</u> . There are also documented standards					
Photos/Images	and guidelines on the <u>Ocean Standards website</u> .					
Standards / Best Practice	The DBCP is contributing to this effort by compiling this list of best practice documents available and will identify gaps in the documentation and where documents need to be updated. These best practices which have undergone community review and the network considers to be fully supported by the DBCP community will be identified as DBCP 'GOOS endorsed' and tagged as such in the IODE/GOOS http://oceanbestpractices.org repository. The DBCP Technical Document series makes up an important part of the					
Definitions	standards and best practice documentation.					
Web Links						
Data Value and Impact		Drifting Buoys	Moored Buoys			
Search & Help		- DRCR Deployment Information				

Deployment techniques • AOML GDP Deployment Docs Search DBCP web Search	Search & Help	DBCP Deployment Information	
(doc)	Search DBCP web Search	AOML GDP Deployment Docs Deployment considerations (DBCP Training Course) Metservice New Zealand Drifter Checklist	Buoy Safety Considerations



Community engagement throughout the process

- Submit BP & use BP on repository, be an advocate
- Come to the workshop in September
- Submit to Frontiers and and act as a reviewer
- Engage and feedback to this working group
- Raise areas/opportunities of development, outreach and capacity development, link with IODE Ocean Teacher
- Submit to newsletter

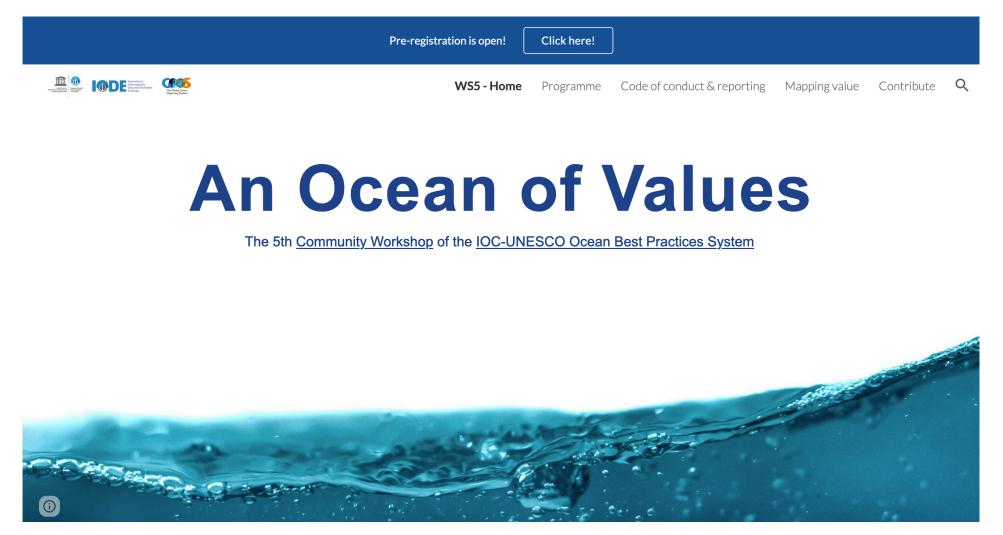








Announcing the Fifth OBPS Community Workshop - September 20-24, 2021: An Ocean of Values https://workshop5.oceanbestpractices.org/

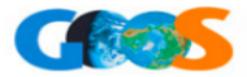












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Steering Group - OBPS

Sergey Belov Mark Bushnell Pier Luigi Buttigieg Claudia Delgado Juliet Hermes Emma Heslop Cora Horstmann Kirsten Isensee Johannes Karstensen Arno Lambert Ana Lara Lopez Adam Leadbetter Frank Muller-Karger Cristian Muñoz Francoise Pearlman Jay Pearlman Peter Pissierssens Rachel Przeslawski Nick Roden Pauline Simpson Jordan van Stavel

















