



Ocean Best Practices System Work Plan / Proposal 2025

Patricia Martin Cabrera, OBPS Project Manager, IOC/UNESCO p.cabrera@unesco.org

Fourteenth Session of the GOOS Steering Committee 5a Outreach: Project and Partners 19-21 February 2025, Paris



Search

Q

ABOUT US NEWS AND EVENTS REPOSITORY COMMUNITY AND DEVELOPMENT OUR WORK RESOURCES

OUR VISION

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





GOOS Connection with OBPS

An IOC best practices working group was formed, membership included Juliet Hermes - Vice Chair Standards and Best Practices GOOS OCG First peer reviewed articles in the Frontiers in Science best practice research topic published, work on metadata fields e.g. adopting EOVs, and proposal for an OBPS Project under IOC developed

2018

GOOS Endorsement process adopted

2016

First OBPS Workshop was held at IOC/UNESCO in Paris - defined what a 'best practice' might be, outlined the benefits and structure of an Ocean Best Practice System (OBPS)

OBPS was adopted as an IOC project, co-sponsored by IODE and GOOS, setting the initiative up for long-term success.

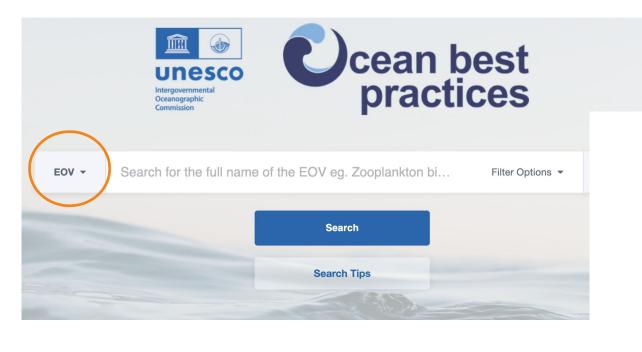
2019

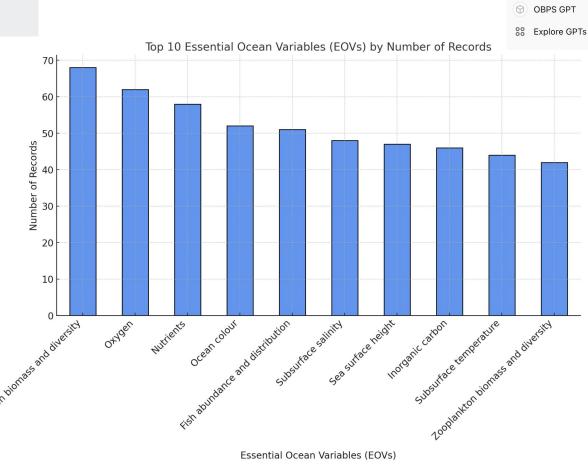
10 GOOS endorsed practices

& 2000+ documents in the repository



GOOS EOVs in OBPS







S ChatGPT

GOOS Endorsement process









GOOS BEST PRACTICE ENDORSEMENT PROCESS

The Global Ocean Observing System (GOOS) best practice 'endorsement' process has been developed in cooperation with the Ocean Best Practices System¹ (OBPS), an Intergovernmental Oceanographic Commission (IOC joint IODE/GOOS) Project which aims to support the ocean community in developing and sharing best practices. The endorsement process was approved by the GOOS Steering Committee 1st October 2020

Any questions on this process can be sent to the GOOS Task Team on Best Practices lead, Juliet@saeon.ac.za.

Why Best Practices?

The benefits of following recognised community best practices are numerous and fundamental to the sustained global ocean observing effort. They improve the reproducibility of science research, as well as interoperability across disciplines and datasets by standardizing methods and data collection, which allows practice in one area to be transferred to another. Best practices enable efficiencies, saving the repeating of work already done, and support future proofing of datasets (the methods collection and processing can be identified). They create transparency within data collection in the ocean science community, making the data more useful, of known and reproducible quality, reusable, and interoperable. Best practices support the transfer of knowledge and capacity building and make the data usable by communities outside of the observing community. Best practices also cover many different types of documents, they can be a standard operating procedure, a field manual, a collection method or, indeed, a best practice. The vision of the Ocean Best Practice System (OBPS) is to have agreed and broadly adopted methods for every activity in ocean observing from research to operations to applications.

¹Hermes, J., (ed) GOOS Best Practices Endorsement Process. Version 1. Paris, France, Global Ocean Observing System, 7pp. DOI: http://dx.doi.org/10.25607/OBP-926

https://goosocean.org/our-work/ocean-best-practices/goos-endorsement-process/

GO IODE

GOOS Endorsed practices

XBT Operational Best Practices for Quality Assurance

Version 1.0

Author: Justine Parks1

Contributors: Francis Bringas²; Craig Hanstein³; Lisa Krummel⁴

Major Editors: Rebecca Cowlev³: Janet Sprintall¹

Other Editors/reviewers: Lijing Cheng⁵; Mauro Cirano⁶; Samantha Cruz⁶; Marlos Goes²; Shoichi Kizu⁷; Franco Reseghetti⁸

¹Scripps Institution of Oceanography, Climate, Atmospheric Sciences, and Physical Oceanography, University of California, San Diego, CA, USA

²Atlantic Oceanographic and Meteorological Laboratory, Physical Oceanography Division, National Atmospheric and Oceanic Administration, Miami, FL, USA

³Commonwealth Scientific and Industrial Research Organisation, Ocea Tasmania, Australia

4Bureau of Meteorology, Marine Observations Unit, Melbourne, V Sinstitute of Atmospheric Physics, Chinese Academy of Sciences, B

⁶Center for Mathematical and Natural Sciences, Institute of Geosci Universidade Federal de Rio do Janeiro, Brazil

⁷Graduate School of Science Geophysics, Tohoku University, Sendai, Jap

⁸Biodiversity and Ecosystem Services Laboratory, Italian National Agency for New Joses, Energand Sustainable Economic Development, San Terenzo, Italy

Determination of dissolved organic carbon and total dissolved nitrogen in seawater using High Temperature Combustion Analysis

Elisa Halewood 1*, Keri Opalk 1, Lillian Custals 2, Maverick Carey 1, Dennis A. Hansell 2 and Craig

Marine Science Institute, Department of Ecology, Evolution and Marin California Santa Barbara. Santa Barbara. CA. United States. *Department Rosenstiel School of Marine and Atmospheric Science, University of N

This document describes best practices for analysis of dissolution (dissolved organic carbon and total dissolved nitrogen) in seawoup test.

2722

1094

Best practices for Core Argo floats: Getting started, physical handling, metadata, and data considerations

Version 1: October 2023

Tamaryn Morris¹², Megan Scanderbeg³, Deborah West-Mack⁴, Claire Gourcuff⁵, Noé Poffa⁶, TVS Udaya Bhaskar⁷, Craig Hanstein⁷, Steve Diggs⁵, Lynne Talley⁵, Victor Turpin⁸ Zenghong Llu¹⁸ and Breck Owens⁵

- South African Weather Services (SAWS), South Africa
- South African Environmental Observation Network (SAEON), South African Scripps Institution of Oceanography (SIO), United States of America
- ⁴Woods Hole Oceanographic Institute (WHOI), United States of Amo ⁵Euro-Argo ERIC, France
- 6 Ifremer France
- Indian National Centre for Ocean Information Services (INCOIS), No. Commonwealth Scientific and Industrial Research Organisation (CS)
- Commonwealth Scientific and Industrial Research Organisation (C OceanOPS, France
- Second Institute of Oceanography, Ministry of Natural Resources, Ch

Recommendations for Plankton Measurements on OceanSITES Moorings With Relevance to Other Observing Sites

Emmanuel Boss · Anya M. Waite

Karstensen · Tom Trull · Frank

Heidi M. Sosik · Julia Uitz · Silvia

PRACTICAL TOOLS



1434

A field and video annotation guide for baited remote underwater stereo-video surveys of demersal fish assemblages

Tim Langlois¹ | Jordan Goetze³ | Todd Bond¹ | Jacquomo Monk¹ | Rene A. Abessan² | Jacquomo Translan² | Rene A. Abessan² | Learne A. F. Gullerood | Brooke A. Gibbons¹ | Danion Driessen² | David V. Fairclough³ | Milec Expos² | Learne A. F. Fullwood | Brooke A. Gibbons¹ | David Harast² | Michelle R. Heupel² | Jamie Hicks² | Thomas H. Holmes² | Charle Huveneers⁴ | Daniel terodisconoo? □ | Alan Jordan² | Nathan A. Knott² | Patre L. Milchell² | Daniel Roman³ | Daniel Roman³ | Barne McLann³ | David Millers¹ | Peter J. Milchell² | Stephen J. Newman³3 | Ben Bad² | Peranda A. Rolin² | Bengania | Sanders² | Marcus Stowas | Adam N. H. Smith²³ | Michael J. Travers³33 | Corey B. Wals

Software, Currie Universities Persit, Wile, Australia, Fedinides for Manche and Marcel of Bodies, University of Table Control for Research and Enfortmental Management. Silters of University, Demagaster 16, Philippines (Publica) Control, Edinare Operations Dirthin, HOMA Invaryer Regional Careta: Handrals Jr., U.S.R., "Switch universitate for Markel Handral and Manage, Standards III U.S.R." Seals African Statistics of August Englandering Conferences Standard Rhodies University Conferences, South Africa, "Control for Regional Careta Conferences, Standard Rhodies University, Conference South Africa, "Control for Regional Conference, Standard Rhodies University, Conference South Africa, "Control for Regional Conference, Standard Rhodies University, Conference South Africa, "Control for Regional Conference, Standard Rhodies University, Conference South Africa, "Control for Regional Conference, Standard Rhodies University, Conference South Africa, "Control for Regional Conference, Standard Rhodies (Rhodies) Rhodies (Rho



This Gibblub repository is for the ChronClisters Oxygen Standard Operating Procedure (SOP).

Read the SOP here. If you are reading a pell or other offline version of this SOP, please click on this link to read the most

Continous community review

Feedback by the global glider community is possible at any time. Everyone is welcome to join the SQ

Who is invited to review?

Constructive recover, by anyone in vorticum, "we converge even experts and now justice serving oxygen to feedback on the document. For example: Experts are welcome to critically and uncertainty ranges outlined in the SOP. New users can help to improve the SOP by prouser perspective. Please let us know that you use the SOP.

ow to contribute

87!

OBPS Priorities 2025

- 1. Revision of the <u>OBPS Terms of Reference</u> to expand OBPS's role within IOC and the communities OBPS supports, evolve from an OBPS Project to OBPS, and to redefine SG membership becoming cross-IOC.
- 2. Evolving the Endorsement process for recognizing best practices. Involving the community to endorse practices (Endorsing entities).
- 3. Repository content: Exploration of AI tools for improving discoverability, language translation, content validation and curation of the repository.
- 4. Strategic Plan 2026-2030: Laying out a clear vision for OBPS for the next 5 years (in line with IOC strategy).
- 5. Ocean Practices Decade Program: Community engagement and networking to advocate the creation of best practices.
- Federated Network: Technology developments and improving how users find the information they are looking for. Subnetwork of the ecosystem of ODIS (Ocean Data Information System.



Why evolve to be cross-IOC OBPS?

- Ensure core set of IOC community best practices are findable and utilised, to support delivery of trusted information.
- Provide community adopted best practices for across IOC, EOVs, networks, ocean information value chain.
- More sustained and structured system, enabling long-term support for best practices across a growing number of communities.
- Strengthening regional champions and the global best practices network.
- Sustained funding as IOC activity



Suggested Objectives OBPS - v similar

Objectives

- (i) Foster innovation and excellence by engaging with relevant communities in a joint and coordinated effort towards producing, reviewing and sustaining relevant best practices and standards;
- (ii) Increase efficiency, reproducibility and interoperability of the value chain of IOC by providing the community with a unified, sustained and readily accessible interdisciplinary knowledge base of best practices;
- (iii) Maintain and advance the OBPS Repository as a universal and accessible storage for IOC-relevant ocean related best practice and standards;



Suggested Decision - IOC Assembly 2025

Decides to:

- (i) transition the "IOC Ocean Best Practices System (OBPS) project" to the IOC Ocean Best Practices System under a federation of IOC programmes and sub-commissions with revised terms of reference as attached in Annex A of this Decision;
- (ii) establish the IOC Steering Group for the Ocean Best Practices System (OBPS) with the terms of reference as attached in Annex B of this Decision;

Urges Member States to actively participate in the OBPS by submitting relevant community practices on ocean observation, data management, products and services, and by promoting the use of practices contained in the OBPS at the national, regional and global level.

Invites relevant stakeholders to contribute community practices and collaborate with the OBPS;









Thank you!



https://www.oceanbestpractices.org/