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Commission

33rd Assembly
25 June- 3 July 2025

**Ocean Best Practices
System (OBPS)**
Agenda item 3.4.4

Emma Heslop – Programme Specialist GOOS, IOC/UNESCO
Rebecca Zitoun – OBPS Co-Chair, IMOS
Patricia Cabrera – OBPS Project Manager, IOC/UNESCO

Why use “best practices”?

- Efficient use of time
- Data interoperable, comparable, collatable
- Greater trust in data
- Reproducible
- Collaborative opportunities
- Streamlined regulatory approval
- Higher funding success
- Improved systems interoperability
- IOC Medium-Strategy elements are ‘built on global standards and best practices’

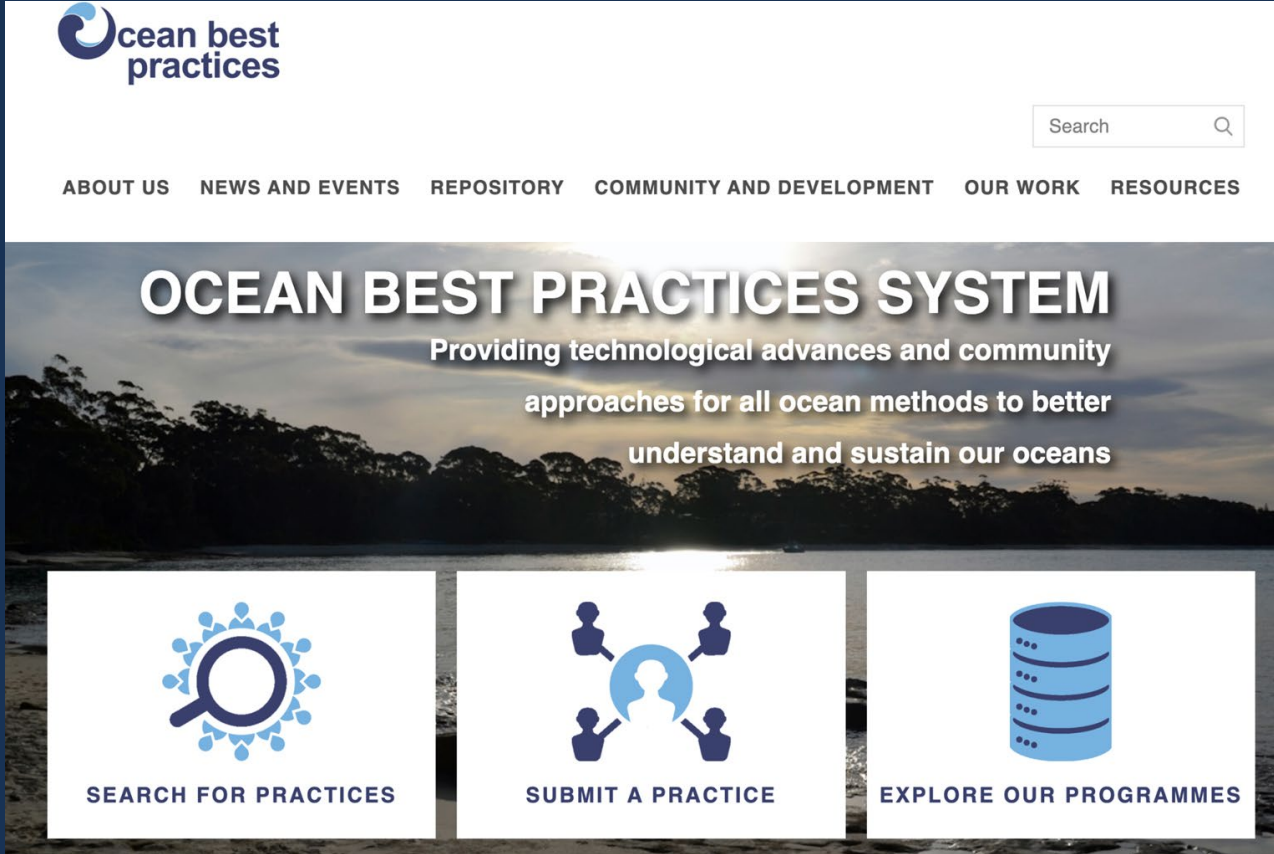


Ocean Best Practice System

OBPS

Vision: share broadly adopted ocean practices across research, operations, and applications.

- Repository
- Search and discovery
- Advocacy
- Journal - Frontiers



The screenshot shows the Ocean Best Practices System website. At the top right is the UNESCO logo with the text "Intergovernmental Oceanographic Commission". Below it is the "ocean best practices" logo. A search bar is located in the top right corner. A navigation menu includes "ABOUT US", "NEWS AND EVENTS", "REPOSITORY", "COMMUNITY AND DEVELOPMENT", "OUR WORK", and "RESOURCES". The main heading is "OCEAN BEST PRACTICES SYSTEM" with the tagline "Providing technological advances and community approaches for all ocean methods to better understand and sustain our oceans". Below this are three white boxes with blue icons and text: "SEARCH FOR PRACTICES" (magnifying glass icon), "SUBMIT A PRACTICE" (people icon), and "EXPLORE OUR PROGRAMMES" (database icon).

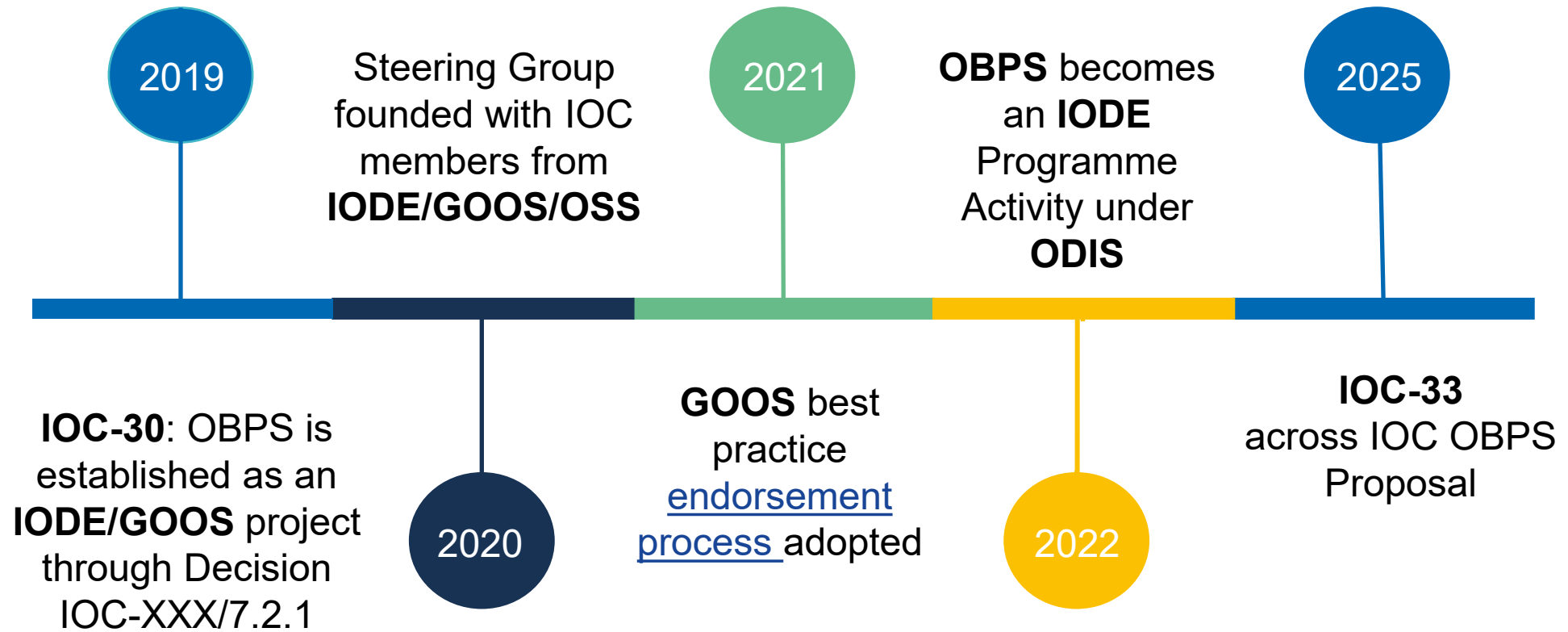
www.oceanbestpractices.org

OBPS & IOC



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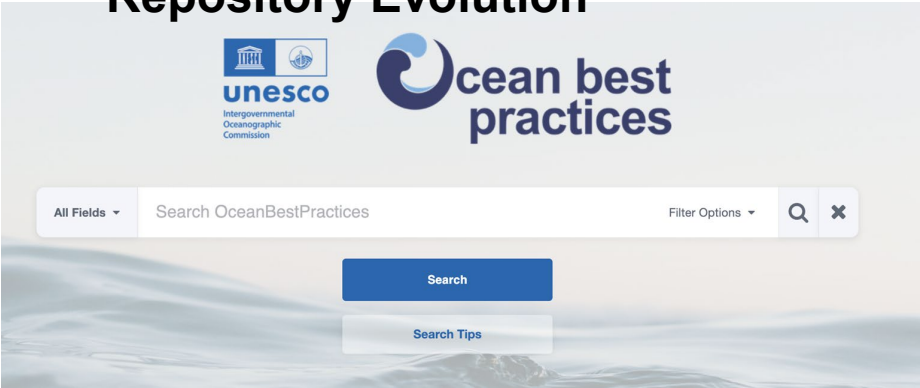


OBPS today

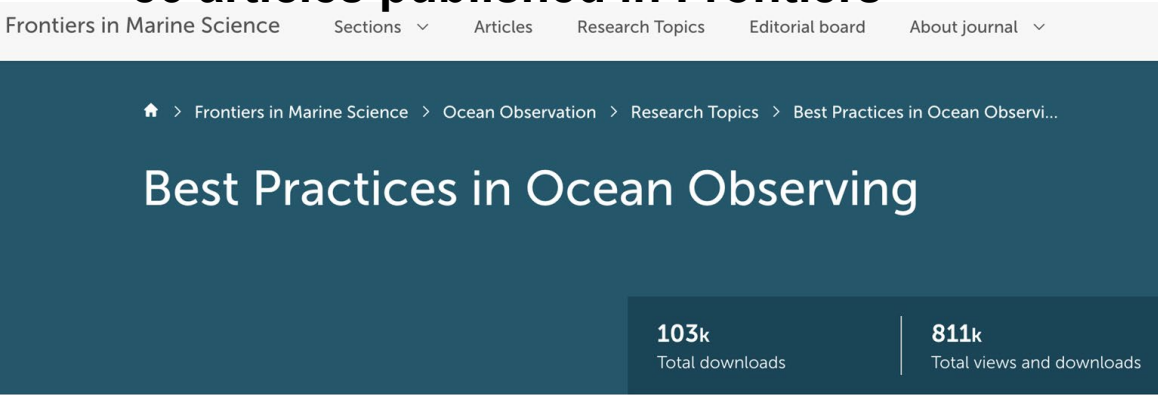


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Repository Evolution



86 articles published in Frontiers



20 Endorsed Best Practices

XBT Operational Best Practices for Quality Assurance

Version 1.0

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

Emmanuel Boss · Anya M. Waite · John J. Carstensen · Tom Trull · Frank Muller-Klaus · Heidi M. Sosik · Julia Uitz · Silvia G. Acina

4648

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

Elisa Halewood^{1*}, Keri Opalk¹, Lillian Custals², Maverick Carey², Dennis A. Hansell² and Craig A. Carlson^{1*}

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This document describes best practices for analysis of dissolved organic carbon and total dissolved nitrogen in seawater using high temperature combustion analysis. Included are SOPs for sample collection and storage, analysis using high temperature combustion analysis, and suggestions for best practices in quality assurance. Although written specifically for OceanSITES community practices, many aspects of sample collection relevant to DOM determination across oceanic regimes are relevant to other observing systems. The document aims to provide updated methodology to the wider marine community.

1177

DOI: 10.1111/2041-210X.13470

PRACTICAL TOOLS

Methods in Ecology and Evolution

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

Tim Langlois¹ | Jordan Goetze^{2,3} | Todd Bond⁴ | Jacquomo Monk⁴ | Rene A. Abesamis⁵ | Jacob Asher^{6,7} | Neville Barrett⁸ | Anthony T. F. Bernard^{9,10} | Phil J. Bouchet¹⁰ | Matthew J. Birt¹¹ | Mike Cappo¹² | Leanne M. Currey-Randall¹² | Damon Driessen² | David V. Fairclough^{3,13} | Laura A. F. Fullwood³ | Brooke A. Gibbons² | David Harasti¹⁴ | Michelle R. Heupel¹² | Jamie Hicks¹⁵ | Thomas H. Holmes^{1,2} | Charlie Huveneers¹⁶ | Daniel Ierodiaconou¹⁷ | Alan Jordan⁴ | Nathan A. Knott¹⁸ | Steve Lindfield¹⁹ | Hamish A. Malcolm²⁰ | Dianne McLean^{1,11} | Mark Meekan¹¹ | David Miller¹⁵ | Peter J. Mitchell²¹ | Stephen J. Newman^{3,13} | Ben Riebel²² | Fernanda A. Rolim²² | Benjamin J. Saunders³ | Marcus Stowar¹² | Adam N. H. Smith²³ | Michael J. Travers^{3,13} | Corey B. Wakefield²⁴ | Sasha K. Whitmarsh¹⁶ | Joel Williams¹⁴ | Euan S. Harvey³

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KEYWORDS

GOOS Ocean Observing Report Card



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	GOOS <i>in situ</i> networks ¹	Implementation STATUS ²	Data & metadata			Best practices ⁶	GOOS delivery areas ⁷		
			REAL TIME ³	ARCHIVED DELAYED MODE ⁴	META-DATA ⁵		OPERATIONAL SERVICES	CLIMATE	OCEAN HEALTH
 Ship based meteorological - SOT		★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆			
 Ship based oceanographic - SOT		★★★☆☆	★★★☆☆	★★★★☆	★★★☆☆	★★★☆☆			
 Repeated transects - GO-SHIP		★★★★☆	Not applicable	★★★★☆	☆☆☆☆	★★★★☆			
 Sea level gauges - GLOSS		★★★★☆	★★★☆☆	★★★★☆	★★★☆☆	★★★☆☆			
 Time series sites - OceanSITES		★★★☆☆	Not applicable	★★★★☆	★★★☆☆	★★★☆☆			
 Moored buoys - DBCP		★★★★☆	★★★★☆	★★★★☆	★★★☆☆	★★★★☆			
 Tsunami buoys - DBCP		★★★☆☆	★★★★☆	★★★★☆	☆☆☆☆	★★★★☆			
 HF radars		★★★☆☆ Emerging	★★★☆☆	☆☆☆☆	★★★☆☆	★★★★☆			
 Drifting buoys - DBCP		★★★★☆	★★★☆☆	★★★★☆	★★★☆☆	★★★★☆			
 Profiling floats - Argo		★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★☆☆			
 Deep & biogeochemistry floats - Argo		★★★☆☆ Emerging	★★★☆☆	★★★★☆	★★★★☆	★★★☆☆			
 OceanGliders		★★★☆☆ Emerging	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆			
 Animal borne sensors - AniBOS		★★★☆☆ Emerging	★★★☆☆	★★★★☆	☆☆☆☆	★★★☆☆			

OBPS today



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OTGA-OBPS Training course



Ocean Best Practices [self-paced course]

IOC/OBPS/OTGA

Training Course

12 Decade Projects and Actions



HOST PROGRAMME: OCEAN PRACTICES FOR THE DECADE



EPIC Academy: Plastic Pollution Education
Ocean Legacy Foundation, Canada



Strategic Management of Ghost Gear in Coastal Land
Ocean Legacy Foundation, Canada



Innovative Solutions for Plastic Free EU Rivers
Flanders Marine Institute (VLIZ), Belgium

Capacity Development:

ADAPT Project



Led by IOCARIBE, supported by
IODE Regional Training Center-RTC
at INVEMAR and OTGA

Supporting ocean practices across IOC

- Enhancing FAIRness of documents.
- Expanding access and visibility via the repository.
- Improving discoverability: standardized metadata, search interface, clarifying content
- Promoting creation of best practices, OBPS advocacy.
- Potential of endorsement of practices
- Encompass diverse ocean practices within the IOC.

Issuing Agency ▾ Enter the full name of the issuing agency/publisher Filter Options ▾

ALL: TSUNAMI x AND PUBLISHER: IOC x Clear All

All terms listed affect current search. Clear them to start a new search or add a second term and use the Boolean operators then displayed.

Home / Search OBPS Select All Download Citations 9 results SORT

2002 English

☐ Manual on sea level measurement and interpretation. Volume III - Reappraisals and Recommendations as of the year 2000.

One obvious application which does require a much higher sampling rate is *tsunami* research or *tsunami*... GLOSS has tended not to concern itself with *tsunamis* during the last decade, alth Implementation... It is clear that new installations in areas prone to *tsunamis* should be capable in principle of recording... That way the standard 6-minute sample is preserved and the *tsunan* sampled.... This serves two purposes: (i) the sample is adequate, and (ii) it automatically sets off a *tsunami* alarm...

Explore Document Generate Citation View Statistics UNESCO-IOC for IOOE



Field Guide to the Jellyfish of Western Pacific

Source: <https://ioc-westpac.org/resources/>

Next Steps

- **Transition the “IOC Ocean Best Practices System (OBPS) project” to the “IOC Ocean Best Practices System” under the IOC - all programmes and sub-commissions - with revised terms of reference (Annex 1 of Decision A-33/3.4.4)**
- **Governance updated: Members of IOC programmes and regional sub-commissions nominate candidates to form part of the OBPS Steering Group.**
- **Financial implications: IOC programmes and sub commissions contribute a relatively small budget allocation to OBPS, for project management, software development and advocacy.**



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THANK YOU 