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The Ocean Best Practices System and the Endorsement of Best Practices

**Johannes Karstensen,
co-chair Ocean Best Practices System
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What are Best Practices?

Best practices are created by the community for the community

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

Best practices documents can be SOP, manuals, guides … videos
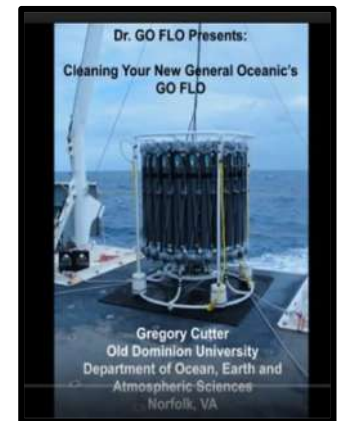
Best Practices foster Quality, Interoperability

Best Practices are a Foundation for ocean research and applications

Quality and consistency of observations and information

Efficiency (don't re-invent the wheel)

Transparency - Data traceability, reproducibility and uncertainty quantification

Resource for training and capacity development

Upper Photo courtesy of Sophie Seeyave, POGO

Challenges for Ocean Best Practices:

- Not all best practices are documented

- They are scattered and can be hard to find

- Promising methods may not be shared

- Work to create a best practice is often not acknowledged

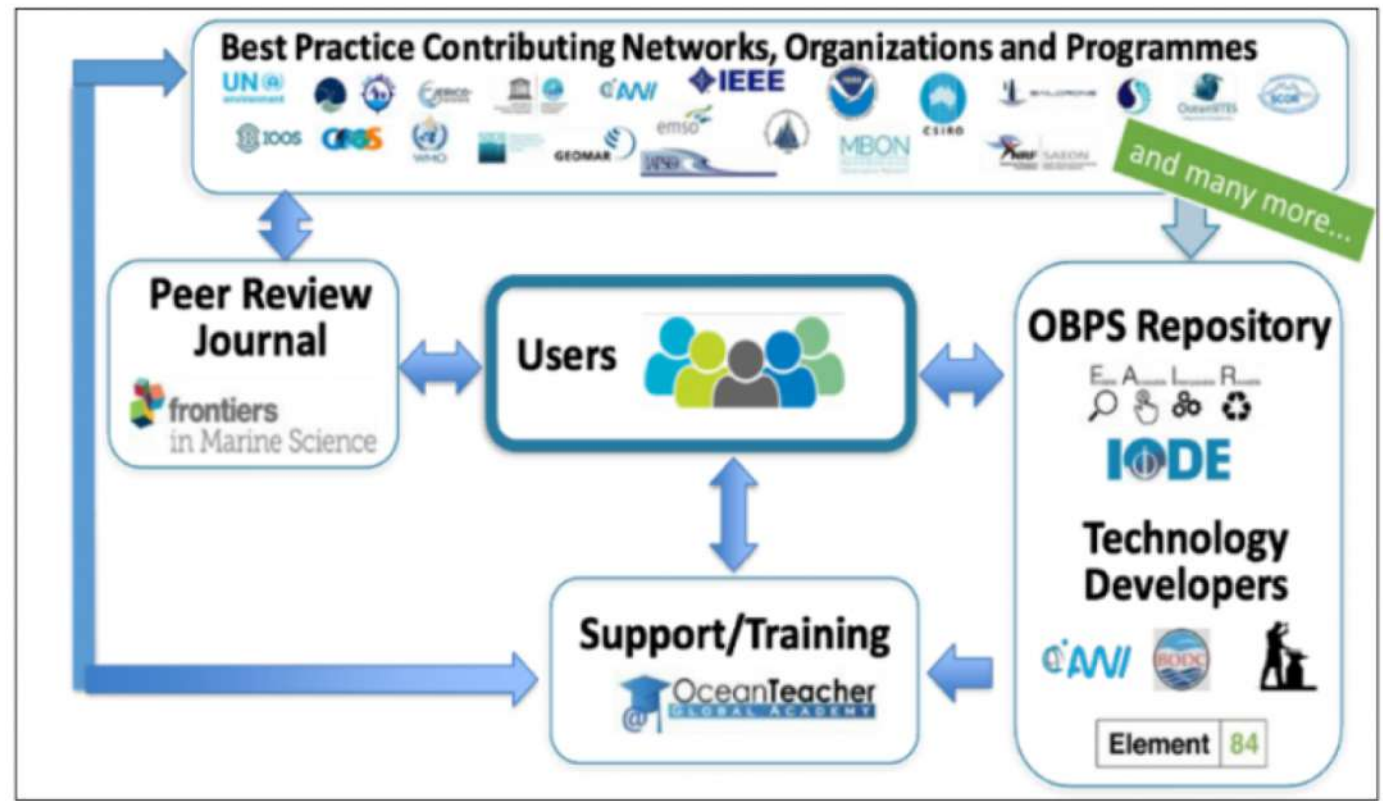**A system is needed for Ocean Best Practices**
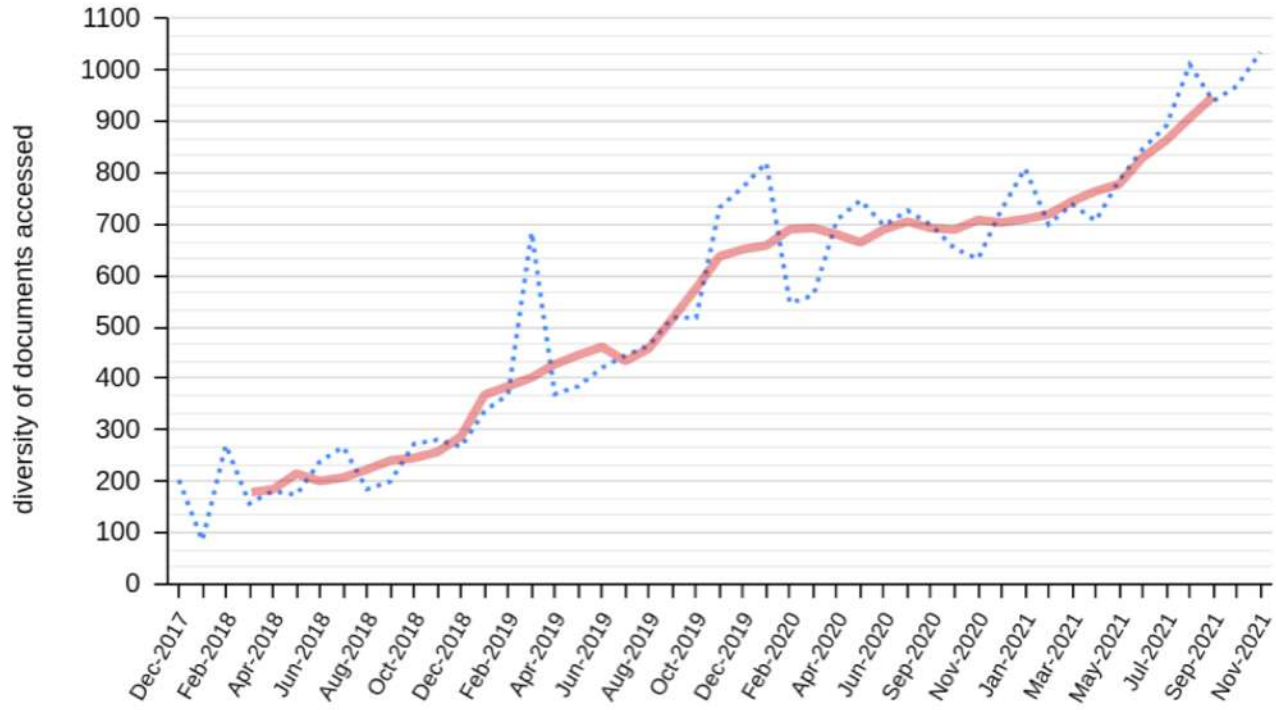
IOC Ocean Best Practices System

- Broad Community Support & uptake

- >1400 Documents/media stored

- Multiple Languages accepted

- Highlight "Endorsed" Practices

- Help with "Convergence" of knowledge into a BP

- Link to peer review journal

- Open Access
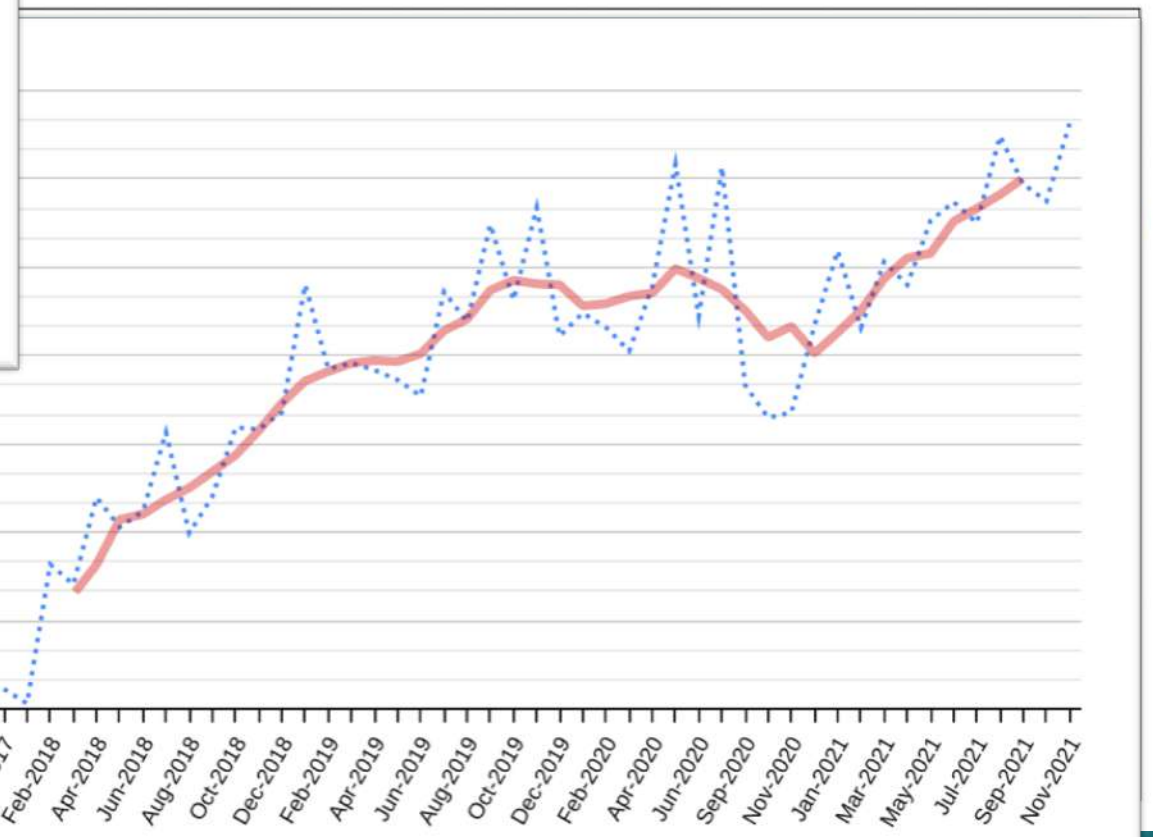
Repository, Journal, Training

OBPS: Joint project Global Ocean Observing System (GOOS) & International Oceanographic Data and Information Exchange (IODE)

System

Ocean best practices

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...pository, Journal, Training

- Help with "Convergence" of

From GOOGLE analytics
- Users
- Document access

Convergence & Endorsement

Challenges: creation of Best Practices and finding a Practice that fits best my needs
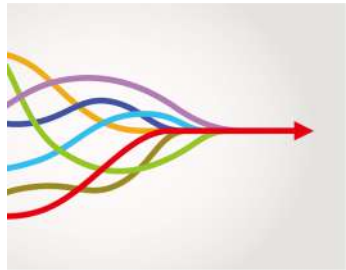
- **Convergence**: process where a community converge on existing knowledge to create a document describing the "Best Practice"

- **Endorsement**: process where communities approve documents as their recommendation for use
  – *e.g. GOOS Endorsed Ocean Best Practices*

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

1. Completed a rigorous and documented community review process and approved by the leadership

2. Is fit for the purpose and fully satisfies the definition of a best practice

3. Has been endorsed through the relevant "GOOS body" (OOPC, IOCCP, GOOS BioEco)

4. Is available and identifiable within the OBPS repository

5. Is updated at relevant timeframes

What happens after endorsement?

- OBPS endorsement certificate and possibly acknowledgements in BP

- GOOS endorsed tag - metadata search

- Sent out in OBPS eNews article

- Newsflash on GOOS webpage and a page on BP endorsement with a link to search repository

- OCG endorsed BP highlighted in report card

- Triggered for automatic update check in 3-5 years

OceanPractices for the Decade ("OceanPractices")

Support all ocean stakeholders in securing, equitable sharing, and collectively advancing ocean best practices

Best practices improve interoperability, foster trust and facilitate training so broader global participation naturally evolves

- Enable the development and continuous evolution of best practices for ocean research, operations and applications

- Sustain a trusted system for permanently archiving and accessing ocean methods

- Foster community-led capacity development in ocean best practices for equitable access to technology and information

- Facilitate a federated network of interoperable methodology management systems

Lead Organization for OceanPractices:
Ocean Best Practices System
Partners: 45 organizations and networks

Points of Contact:
Johannes Karstensen - Co-chair
Jay Pearlman - Co-chair
Pauline Simpson - Programme Manager
Cora Hörstmann - ECOP lead

Email: decade@oceanbestpractices.org
Website: www.oceanbestpractices.org

The Evolution

- Improve Multilangualism

- Expanded Support for EOVs

- Federation search and access across BP repositories (ocean, Land, atmosphere, ...)

- Supporting the use of standards (ISO, RM) in conjunction with best practices

- Further globalization of ocean best practices: Support across the UN Ocean Decade under the Ocean Practices Programme

THANK YOU

Back up follow
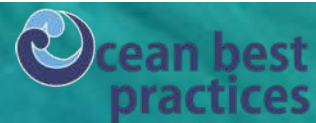
Steps to developing an ocean best practice

SCOPE AND RECRUIT

Confirm the need
- Consider best practices training
- Review similar methods
- Survey the community
- Develop scoping report

Form a working group
- Identify leaders
- Invite contributors and institutions
- Be inclusive
- Set scope of method

DEVELOP AND RELEASE

Develop content
- Assess/integrate related methods
- Consult in working group
- Create strawman
- Complete final draft

Review final draft
- Invite full community review
- Respond and revise
- Maintain adjudication record

Release
- Publish at repository
- Notify stakeholders
- Promote to target audiences

REVISE AND RATIFY

Invite feedback
- Survey users
- Publish in journal
- Assess uptake via repository
- Consider new version

Obtain community endorsement for an accepted best practice!
- Obtain GOOS endorsement
- Obtain institutional endorsement
- Include in permitting recommendations
- Maintain and update

The ocean best practices system can provide
- A searchable repository
- A journal theme
- Training
- User support, outreach

Benefits of using a best practice
- Collaborative opportunities
- Efficient use of time
- Improved systems interoperability
- Data comparability and collatability
- Greater trust in data
- Streamlined regulatory approval
- Higher funding success