

European Data Management Workshop

OceanGliders Best Practices

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Agenda

- 🔗 What is a Best Practice?
- 🔗 Overview: OceanGliders Best Practices during EuroSea
- 🔗 Status: OceanGliders Standard Operating Procedures (SOPs): Salinity, Oxygen, Nitrate and Depth Average Currents (DACs)
- 🔗 Crucial role of GitHub repository: Sign up now and be active!
- 🔗 Challenges in developing and maintaining Best Practices

What is a “Best Practice”

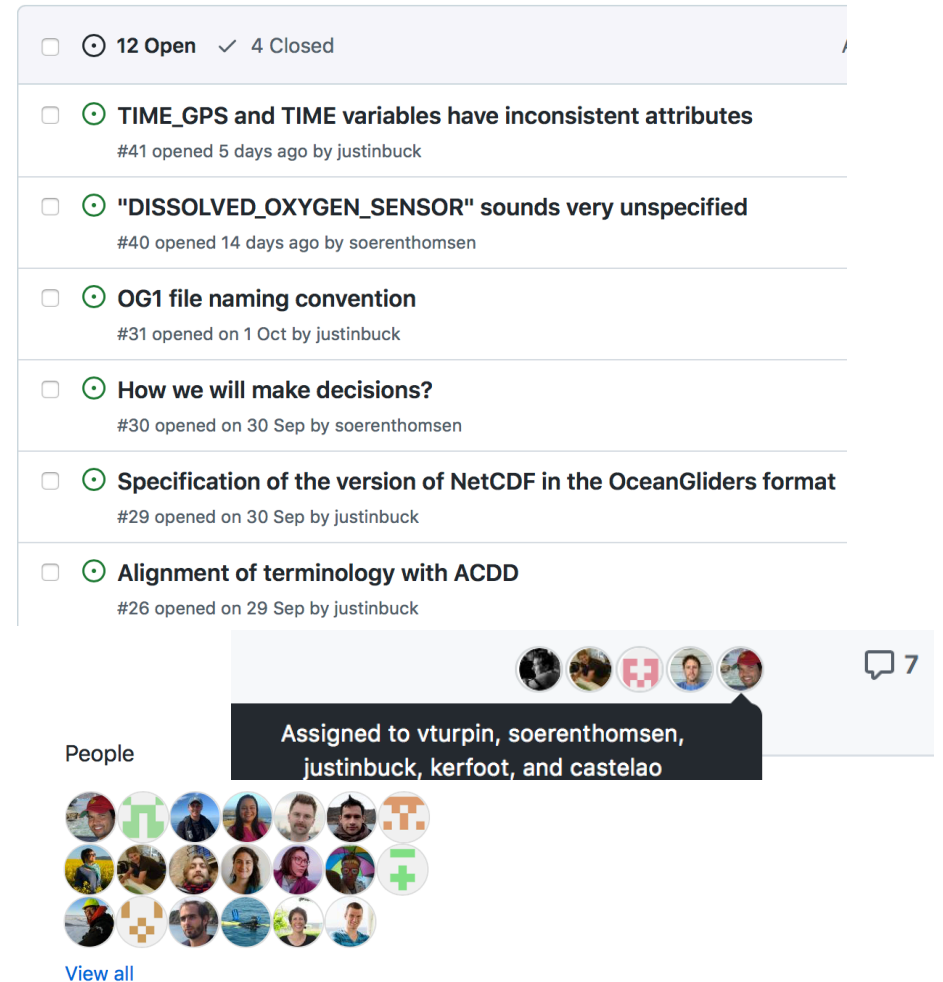
-  A best practice is a methodology that has repeatedly produced superior results relative to other methodologies with the same objective; to be fully elevated to a best practice, a promising method will have been adopted and employed by multiple organizations. (Simpson 2018)
-  So far no “real” best practices exists for the global glider community i.e. due to a missing process to quantitatively compare existing methodologies

Towards OceanGliders Best Practices

- 🔗 Status before EuroSea: Many documented practices floating around but no unified effort or process at place to converge
- 🔗 EuroSea funded coordination of glider network including “work on Best Practices”
- 🔗 Building on long term community effort i.e. EGO, GROOM, etc
- 🔗 Very successful “OceanGliders Best Practice Workshop May 2021”, 2 weeks intense community work
 - 🔗 (1) Drafting of Overview Paper: Towards OceanGliders Best Practices and Standards
 - 🔗 (2) 4 Standard Operating Procedures (SOPs)
- 🔗 OceanGliders GitHub community since September 2021, 119 members until now
- 🔗 Release of OceanGliders Oxygen SOP v1.0.0 and GOOS endorsement in April/May 2022

OceanGliders GitHub Community

- 🐙 GitHub is NOT only for coding
- 🐙 Is primary a “social media” platform around **git** a very powerful version control system
- 🐙 Why GitHub for Best Practices?
- 🐙 Solves many problems like: document governance, community review, open, transparent, well-organized discussions
- 🐙 Does NOT depend on meetings or email lists etc
- 🐙 Allows asynchronous community work with “living documents”, once created little effort needed to keep them up to date
- 🐙 BUT requires some training of the community. Will be done just after this plenary today
- 🐙 So far community 119 members



12 Open 4 Closed

- TIME_GPS and TIME variables have inconsistent attributes
#41 opened 5 days ago by justinbuck
- "DISSOLVED_OXYGEN_SENSOR" sounds very unspecified
#40 opened 14 days ago by soerenhomsen
- OG1 file naming convention
#31 opened on 1 Oct by justinbuck
- How we will make decisions?
#30 opened on 30 Sep by soerenhomsen
- Specification of the version of NetCDF in the OceanGliders format
#29 opened on 30 Sep by justinbuck
- Alignment of terminology with ACDD
#26 opened on 29 Sep by justinbuck

People

Assigned to vturpin, soerenhomsen, justinbuck, kerfoot, and castelao

View all

Status: Standard Operating Procedures

 Oxygen: v1.0.0 published on OBPS with doi, Summary Frontiers paper in preparation

López-García, P., Hull, T., Thomsen, S., Hahn, J., Queste, B.Y, et al (2022) OceanGliders Oxygen SOP, Version 1.0.0. OceanGliders, 55pp. DOI: <http://dx.doi.org/10.25607/OBP-1756>.
(GitHub Repository, OceanGliders Oxygen SOP. Available: https://oceangliderscommunity.github.io/Oxygen_SOP/sections/authors_SOP_development_process.html).

 Salinity: Went through community review, Close to be finalised

 Nitrate: Went through community review but still requires some work

 Depth Average Currents: In preparation for community review

Challenges with Best Practices

- 🔍 “Developing” Best Practices takes a lot (!) of time and requires the repeated input of many experts. But is simply not the priority of scientists.
- 🔍 Value and reward for community work of individuals is key i.e. high impact peer-reviewed publication at the end
- 🔍 EuroSea funded a 50% PostDoc (me) to work on OceanGliders Best Practices. My contribution went beyond community coordination to make it actually happen. I co-authors all SOPs i.e. the Oxygen (3rd author) and Salinity (2nd author) SOP, ...
- 🔍 Funding for all lead authors is required to make faster and continuous long term progress. Without funding a challenge to keep “the community” activity up.
- 🔍 A mix of (1) asynchronous continuous activity and (2) short synchronous inclusive virtual/hybrid meetings the way forward

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