

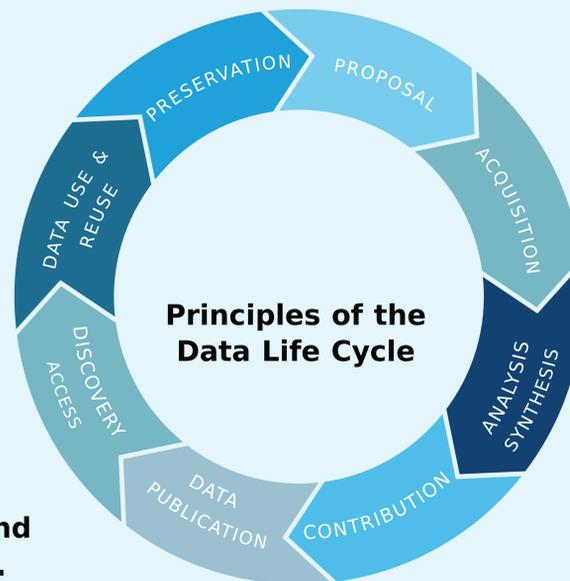
CODE AND SOFTWARE: HOW WOULD YOU SHARE YOURS?

Ocean Sciences Meeting 2020

BCO-DMO curates earth science data where models become increasingly important

The Biological and Chemical Oceanography Data Management Office (BCO-DMO) is a publicly accessible earth science data repository created to curate, publicly serve (publish), and archive digital data and information from biological, chemical and biogeochemical research conducted in coastal, marine, great lakes and laboratory environments.

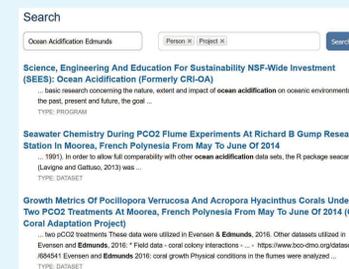
Recently, more and **more of the projects submitted to BCO-DMO represent modeling efforts** which further increase our knowledge of chemical and biological properties within the ocean ecosystem. We feel the time is at hand for the scientific **community to begin a concerted and holistic approach to the curation of code and software.**



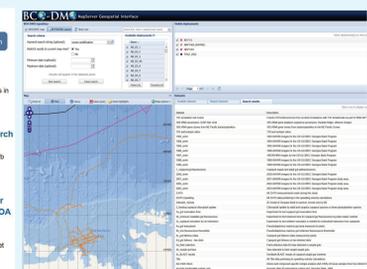
Data Discovery at BCO-DMO

BCO-DMO provides multiple search tools to facilitate data discovery and download to enhance data re-use.

Text Search



Map Search



BCO-DMO wants to help and support the community to better manage code and make it a first class research asset. Your opinion matters! The questions below will inform us on the scientific community needs.

1. What do you expect from repositories doing code management?

What pieces of information should we curate?

- * Model inputs? Model outputs?
- * For community accepted models, should we simply provide discovery?

At what point should code be curated?

- * During development? Once research has been published? During revisions of code?

Model vs post-processing scripts?

- * Code for the entire model?
- * Post-processing scripts which acted on the output?

Treat model results the same as physical observations?

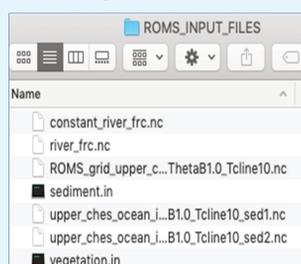
- * Do we need to store the output or just the code?

Facilitate peer review of code?

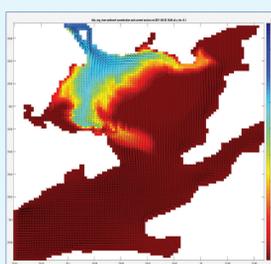
- * Should repositories be responsible for code re-use?

2. What information do you find useful to re-using code or modeling results?

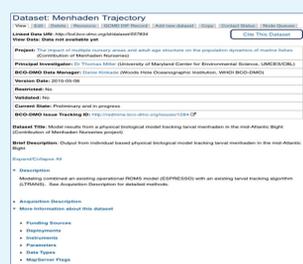
Input files



Full resolution output

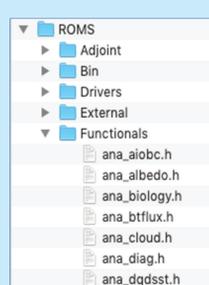


Metadata elements

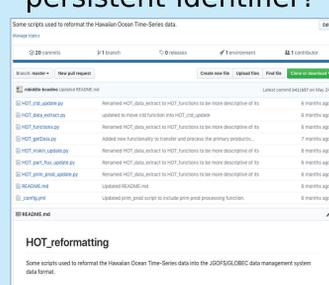


3. How do you want to access your code?

Raw files



Code repository/ persistent identifier?



Interactive environment



How does it work?

Using the stickies on the right to add your thoughts on the questions.

Include your name, e-mail and what your role is at your institution (publisher, funder, researcher, repository, ...)

Indicate which of the parts of question 2 & 3 you find most beneficial to the community

