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 the 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.

We want to help and support the scientific community to better manage code and make it a first class research asset.

Your opinion matters! The questions below will inform BCO-DMO of the scientific community needs.

**Question A: 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 the 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?

- Should the results of model research be treated 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?

**Question B: What information do you find useful to re-using code or modeling methods?**

**Question C: How do you want to access your code?**

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