BCO-DMO

Producing, consuming and mapping vocabularies
BCO-DMO: What is it?

Biological & Chemical Oceanography Data Management Office

To partner with researchers funded by NSF to support them throughout the data life cycle.
BCO-DMO: Metadata

Who was involved?

How was it collected?

Where was it collected?

...
BCO-DMO: A Focus on Vocabularies

*from Local to Global*

- Preserve the terminology used by the researchers
- Normalize this terminology within our repository
- Map normalizations to community-blessed terms
BCO-DMO: An Example

- Researcher uses an Instrument *their team* calls:
  
  “SIO-CTD”

- BCO-DMO Data Managers discover this to be:
  
  “CTD Sea-Bird 911”

- The broader community understands this to be defined as:
  
  “http://vocab.nerc.ac.uk/collection/L22/current/TOOL0035/”
  
  or “Sea-Bird SBE 911 CTD” as defined in the SeaDataNet Device Catalog
BCO-DMO: Impact on Science

Data Discovery

- Contributors find their data using their vocabulary (local)
- Researchers find data using community vocabulary (global)
- To publish our normalized vocabularies for linking, re-use