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?
...

Instruments

Measurements

Vehicles

Funding

Location

People

and more ...

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*