Data Management and Coordination Breakout Group

DBO Data Meeting January 23, 2020

Maximize data collection and sharing

- Make it useful to outside constituencies

- Not like traditional outreach for STEM

- Interest groups include

- Research networking using SAON road map

- Specific case studies
  - Food security (indigenous communities)
  - Specifically Pacific Arctic sector

Getting feedback from indigenous communities

- Funding for a synthesis @ADC; Hajo involved with

- Resources for indigenous food security

- Connecting DBO researchers and local communities

- Challenge to bridge between communities and ship-based research

Synthesis driven by researchers

- Assembling data challenging and time consuming

- Earmarking critical data sets

- DBO low hanging fruit
  - Marine mammal data
  - CTD

- Salmon and People grant used as an example
  - ~100 researchers
  - Gordon and Betty Moore Foundation

Research Coordination

- Need for network funding to support coordination among countries

- Visualization, e.g. remote sensing

  JAMSTEC site has this approach

  may not be feasible with ADC

  "Gallery" type display of data or visualization

NOAA locally has some strengths for visualization

Outreach to other researchers and other constituencies

- Visualizations vs. code/methods to generate

- Getting credit for data in place---what are the metrics for how your data are being used

- Modeling outputs how to share/use examples like ARGO and Chesapeake Bay Program

- What are important data sets to focus on? (for use in synthesis?)
  - CTD easiest to access/concise
  - Mooring data
  - Marine mammal citations
  - Other biological data

Using data

- Machine learning? Can this help?

- What percentage of data are immediately or readily usable?

- Data comparability challenges

- CTD, compiling large data sets---"I can get that done in a week"

- An initial synthesis project---the Parameter File--- what where when

NOAA vs. International vs. NSF data archives

- Pointers to international archives

- NOAA data archives?

- NCEI linkage, different data and metadata requirements

- ADC has a NOAA employee (Sheekela Baker-Yeboah), so NOAA funded data could go through that route.

- Different standards, protocols, units, etc. are a challenge

Jessica said we met expectations

- DBO highlights

- Video going to ADC

- https://arcticdata.io/catalog/portals/DBO