

An Introduction to OIIP and THREDDDS

Vardis Tsontos and Sean Arms

Thursday, April 11, 10:30 PST (17:30 UTC)

Connection Information

<https://global.gotomeeting.com/join/157892821>

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Presentation

[Slides](#)

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Attendees

Jocelyn Elya, Vardis Tsontos, Shawn Arms, Alex, Carolina Berys-Gonzalez, Heather Holbach, Mathew Biddle, Megan Carter, Micah Wengren, Sara Haines, Steve Diggs

Minutes

1. OIIP
 - a. OIIP funded under NASA ACCESS. ACCESS focuses on high technology readiness level technologies. Goal to support NASA field campaign data and marine animal electronic tagging
 - b. In situ data is inherently diverse, complex, and heterogeneous.
 - c. Enhancement and integration of NCEI .nc templates, CMC, ROSETTA, THREDDDS, Tagbase
 - d. Released all source code on Github. Linked here with documentation and demo videos: <https://oiip.jpl.nasa.gov/>

- e. 3 key pieces for interoperability: file standards, standard lexicon, metadata standards
 - f. Reviewed standards and recommended extensions to NCEI nc template
 - g. Web-based visualization tool Common Mapping Client. Synchronized horizontal and vertical views.
2. THREDDS
 - a. Thematic Real-time Environmental Data Distributed Services
 - b. 3 initial components: THREDDS catalogs, netCDF-Java, and THREDDS Data Server
 - c. Rosetta (data format translation service) and Siphon new components
 3. THREDDS Data Server
 - a. Next release will have improvements from OIIP
 4. Rosetta - convert ascii data to standards-compliant netCDF files
 - a. REST web service api. rosetta template json file that stores info on translation process.

Questions

1. Steve - Any attempt to align with the FAIR guidelines?
 - a. Guidelines are very high level, they focused on technical aspects of “I” component. Interoperability.
 - b. Working on white paper for OceanObs, road map for FAIR data
 - c. There’s a lot that can be done with existing standards and tools. Do that and also focus on gaps for certain communities that aren’t covered by CF.
2. Jocelyn - Did all components of OIIP start out open source?
 - a. Rosetta and THREDDS started out open source. VSD3 license. Aims for wide use.
 - b. Visualization components had to go through formal process of open sourcing at JPL. Now it’s relatively simple to make software open source. Reviewed for copyrights by CalTech.
 - c. NASA-funded tech projects mandate that tech needs to be open source in many cases.
3. Micah - IOOS annual data management meeting at end of April. April 30 - May 2. Forwarded to cluster.
 - a. OIIP Involved with animal telemetry network in IOOS
4. Requests for demos
 - a. Rosetta CSV to netCDF

- b. THREDDS spatial subsetting
- c. Data visualization tool