



Towards Systematically Curating and Integrating Data Product Descriptive Information for Data Users

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- **ESIP 2017 Winter Meeting Theme:** *Strengthening Ties Between Observations and User Communities*
 - **Consistent and Complete Product Descriptive Information:**
 - *Essential for bridging these two communities,*
 - *Critical for meeting Open Data and Data Sharing requirements,*
 - *Necessary for enhanced data discoverability, improved accessibility and usability, and interoperability*
 - **Challenges:**
 - *Increasing variety and number of data products,*
 - *A broad spectrum of end-user needs (both human and machine),*
 - *Need to be timely accessible, easily understandable and usable, etc.*
 - **How do we address those challenges?**
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Invited Presentations:

- **Felimon Gayanilo (EarthCube X-DOMES):** *Application of Standards-based Description of Environmental Sensor Metadata*
 - **Bryce Mecum (DataOne MetaDIG):** *Improving Metadata with Automated Quality Evaluation*
 - **Sonny Zinn (NOAA OneStop):** *Design and implementation of automation tools for DSMM diagrams and reports*
 - **Margaret O'Brien (NSF EDI):** *Metadata content standardization in the Environmental Data Initiative*
 - **Robert Ferraro (WCRP/WDC Obs4MIPs):** *Obs4MIPs - Satellite Observations Rehosted for GCM Model Evaluation*
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Abstract

Complete, consistent, and easy to understand information about data products is critical for meeting data discoverability, improved accessibility and usability, and interoperability requirements.

In the BigData and Open Data Era, with ever increasing variety and number of data products, it becomes increasingly impractical to do so in a manual fashion. The most effective way to ensure the completeness and quality of metadata and description documents of data products is to curate them in a systematic, consistent, and automatic fashion based on standards, community best practices, and defined frameworks.

Efforts to meeting this goal have been carried out in various disciplines and projects. This session invites presentations to describe and share their work/progress with the ESIP community on systems, tools, frameworks, workflows, etc. that enable repositories/data centers to systematically generate and provide descriptive information about the data products to data users for improved discoverability, transparency, usability, and interoperability.

