

## Poster #12

### **The NGEE Arctic Data Archive: Data Sharing Metrics; Manuscript and Dataset Submission Tracking; and Tool Updates and Improvements**

Terri Killeffer<sup>2</sup>, Les Hook<sup>1</sup>, Ranjeet Devarakonda<sup>1</sup>, Misha Krassovski<sup>1</sup>, Michael Crow<sup>3</sup>, and Tom Boden<sup>1</sup>

<sup>1</sup> Environmental Sciences Division, Oak Ridge National Laboratory

<sup>2</sup> Information International Associates, Oak Ridge, TN

<sup>3</sup> Oak Ridge Associated Universities, Oak Ridge, TN

Contact: Terri Killeffer [killefferts@ornl.gov]

The Next-Generation Ecosystem Experiment (NGEE) Arctic project is composed of an array of researchers and disciplines across multiple national laboratories and universities. Project-generated datasets will improve representation of complex interactions of arctic land surface and subsurface processes in Earth System Models (ESMs). The NGEE Arctic Data Management Team (DMT) at ORNL, with assistance from Data Representatives at each collaborating institution, are charged with collecting, archiving and sharing data within the project, the larger scientific community, and the public. The DMT will present an update on Data Sharing Metrics; Manuscript and Dataset Submission Tracking; and Tool Updates and Improvements.

Data Sharing Metrics: The DMT provides regular updates to the team members, project management and sponsor on data submission and sharing status. The metrics include the number of metadata records available, planned datasets, datasets available to the project or public, and number of data downloads.

Manuscript and Dataset Submission Tracking: The DMT in collaboration with the Project Management Team are tracking the progress of manuscripts together with the associated datasets towards publication. We strive to meet the DOE Office of Science Statement on Digital Data Management requiring data, that support and validate results in a publication, be published at the same time the paper is published. The effort also enhances use of data Digital Object Identifiers (DOIs) and good data citation practices.

Tool Updates and Improvements: The DMT aims to meet the needs of the project team members and scientific community with continuous updates and improvements to the NGEE Arctic data management tools. Similar standards-based, open-source tools are used across multiple projects there by leveraging the DMT expertise across these projects.

Search and Access current data and Submit new data and metadata from the NGEE Arctic home page [ngee-arctic.ornl.gov]. Click the “Data” tab and select either “Search Data” or “Submit Data” on the dropdown menu.