

The NGEE Arctic Data Archive -- Portal for Archiving and Distributing Data and Documentation

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The open sharing of Next-Generation Ecosystem Experiments (NGEE Arctic) data among project researchers, the broader scientific community, and the public is critical to meeting the scientific goals and objectives of the NGEE Arctic project and critical to advancing the mission of the Department of Energy (DOE), Office of Science, Biological and Environmental (BER) Terrestrial Ecosystem Science (TES) program where the strategic intent is to deliver quality scientific data and improved models regarding the potential effects of increasing greenhouse gas concentrations on the Earth's terrestrial biosphere and the role that terrestrial ecosystems play in the global carbon cycle.

The NGEE Arctic project is committed to implementing a rigorous and high-quality data management program. The goal is to implement innovative and cost-effective guidelines, procedures, and tools for collecting, tracking, storing, archiving, and sharing data within the project, the larger scientific community, and the public.

The NGEE Arctic web site is the framework upon which these data management and sharing tools are being implemented. The home page is a resource for project documentation data sharing policies; data management guidance; notification of new data sets available for project and public sharing; and metadata entry tool help files plus provides an email address to contact the Data Team. [<http://ngee-arctic.ornl.gov>]. The Metadata Entry and Data Upload Tool provides the researcher a standardized format to describe field, laboratory, remote sensing, and modeling data products. A feature of the tool allows for the upload of associated data and documentation files for sharing. [<http://ngee-arctic.ornl.gov/ngeemetadata>] Online help is offered in the form of the NGEE Arctic Metadata Entry and Data Upload Tool Tips and the NGEE Arctic Data Management Guidance. During the metadata creation process, it is possible to register your data set to obtain a DOI and create a complete data citation. NGEE metadata records as well as relevant data from other projects are searchable and available for download through the online Data Search and Access Tool available from the NGEE Arctic home page. [<http://ngee-arctic.ornl.gov/data>]. New tools are continually in development to meet the researcher needs of accessing, visualizing, and archiving the NGEE Arctic data products.