

ORNL Terrestrial Ecosystem Science - Scientific Focus Area Data Policy: Archiving, Sharing, and Fair-Use

The open sharing of **ORNL Terrestrial Ecosystem Science - Scientific Focus Area (TES SFA)** data, modeling products, and documentation among researchers, the broader scientific community, and the public is critical to advancing the mission of DOE's Program of Terrestrial Ecosystem Science.

The TES SFA supports a diverse set of research activities leading towards understanding and predicting the global terrestrial ecosystem forcing of the earth's climate, and to assessing the vulnerability of terrestrial ecological systems to projected changes in climate and atmospheric composition. The research is focused on how terrestrial ecosystems affect atmospheric CO₂ and other greenhouse gases and how the ecosystem processes responsible for these effects interact with climate and with anthropogenic forcing factors.

Applicability

This policy is applicable to all TES SFA participants including the Oak Ridge National Laboratory (ORNL), cooperating independent researchers, and to the users of TES SFA data products (see the Data Fair-Use Statement).

TES SFA data policies are consistent with the sponsoring U.S. DOE Program for Terrestrial Ecosystem Science's Data Policy.

Data Archiving and Sharing

Data collected by TES SFA researchers, results of analyses and syntheses of information, and model algorithms and codes developed in support of the TES SFA will be quality assured, documented, and archived and will be made available to the public.

With the diversity of research projects united under the TES SFA umbrella there are similarly diverse data management practices. Data and model management are integrated into each task.

- Several projects have developed data management and archiving processes over time (e.g., Walker Branch Watershed, Fossil Emissions), others are part of a larger network with established data protocols and archive (e.g., MOFLUX), some are investigator managed (e.g., PiTS, EBIS), or are newer large scale long-term experiments with task-specific data management implementation plans (e.g., SPRUCE) with accompanying, but independent, model development tasks.
- The TES SFA may not be the first archive for generated data products, but will ensure that products are securely archived, discoverable, and available to the public in a timely manner. The TES SFA web site provides this discovery and access service (<http://tes-sfa.ornl.gov>).
- In the long-term, the TES SFA will ensure that the Carbon Dioxide Information Analysis Center (CDIAC) at ORNL is the final repository. CDIAC provides the long-term system stability and archive longevity required for multi-year projects and reliable public data access.

Data Fair-Use Statement

The archived TES SFA data products are freely available to the public and were furnished by the TES SFA researchers and cooperating independent researchers who encourage their use.

- Please inform (e-mail is appropriate) the TES SFA scientist(s) of your use of the archived data and of any publications that result from your use of the data.
- We advise users to check the source Data Archive frequently to ensure that you are using the latest version of the data.
- Please acknowledge (1) data products as a citation as provided in the data archive documentation, (2) web site information downloads as a bibliographic web citation, or (3) general TES SFA information as an acknowledgment or personal communication if no other citation form is applicable.
- When publishing original analyses and results using these data, please acknowledge the agency or organization that supported the collection of the original data. Always include the U.S. DOE Program for Terrestrial Ecosystem Science.
- Please include these terms as publication keywords as applicable: ORNL TES SFA, U.S. DOE Office of Science, and U.S. DOE Program for Terrestrial Ecosystem Science
- Please provide an electronic reprint of your independent work to the TES SFA Project so that all publications resulting from these data may be tracked, recorded, and referenced.

Disclaimer of Liability

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