

DATA USE POLICY

This data use policy has been adapted from the data use policy that has been put in place for the FLUXNET2015 Dataset. The Arctic CO₂ Synthesis Dataset 2018—and its data policy—are designed to facilitate synthesis activities involving a large number of sites. All studies should acknowledge the Arctic CO₂ Synthesis Dataset and also follow Tier One and Tier Two data policies as appropriate for the sites they use—see tier details and acknowledgment text below. Studies limited to a single region or relatively small number of sites should follow the data policy of the relevant regional network.

TIER ONE

Tier One data are open and free for scientific and educational purposes and their use will follow the fair use policy, stated here. Data users describe the intended use of the data when they fill out the data-download form; this intended-use statement will be emailed to the data producer(s) and posted on the Arctic Data Center website (<https://arcticdata.io>). The fair use policy dictates that (1) data producers are informed of who uses the data and for what purpose (which can be satisfied by the aforementioned mechanism) and (2) that proper acknowledgment and citations are given to all data used in a peer reviewed publication, via the following protocols: The data citation will be either a per-site DOI that is provided with the data download or a citation of a publication for each site. Every publication should use the standard acknowledgment given below. It is requested that every publication specify each site used with their unique ID, data-years used, data DOI (in preparation), and brief acknowledgment for funding (if provided by a site PI) in the text or supplementary material. Finally, all data providers should be informed of forthcoming publications.

TIER TWO

Tier Two data are from producers who are currently unable to share their data in an open manner. All terms are the same as for Tier 1 above **except that in addition data producers must have opportunities to collaborate and consult with data users**. Data users describe the intended use of the data when they fill out the data-download form; this intended-use statement will be emailed to the data producer(s) and posted on the Arctic Data Center website (<https://arcticdata.io>). Data users who intend to publish research using Tier Two data must (1) have an up-to-date research description in the intended-use statement that is posted at (<https://arcticdata.io>) and (2) contact the data providers (email list is provided with data download) when you begin research that could lead to a publication. Citations and Acknowledgments in publications follow the protocol for Tier One. As a guideline to interaction between data users and providers, data providers have a responsibility to respond within three weeks of the initial request for interest in collaboration, and must be given at least, and respond within, three weeks to contribute to analysis and manuscript after the first draft is completed. Substantive contributions result in co-authorship.

IMPORTANT: (1) Data from a single site may be designated as Tier 1 or Tier 2 by year (i.e., some years can be Tier 1 and some Tier 2). (2) In case of a synthesis using both Tier 1 and Tier 2 data, all data should be treated as Tier 2.

Standard acknowledgment

This work used a dataset of Chamber and Eddy Covariance NEE flux data extracted from published literature included in previous syntheses (McGuire, Belshe, Virkkala, Natali) and unpublished data contributions. These data were compiled with funding from the Arctic Data Center and are archived at the Arctic Data Center.