

Join the AmeriFlux Network!

ameriflux.lbl.gov

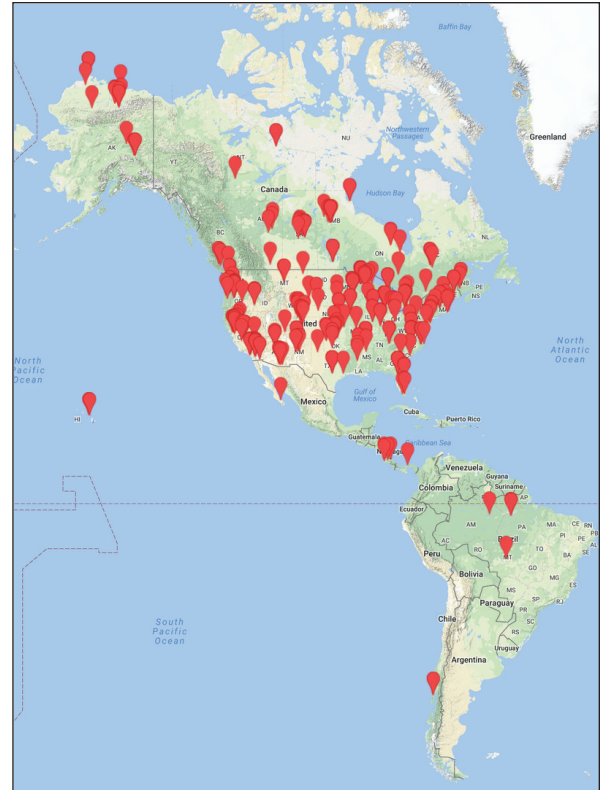


Watching the biosphere breathe

The AmeriFlux Network is a vibrant, collaborative community, engaged in research that spans the full spectrum of ecosystems and climates, from Amazonian rainforests to the North Slope of Alaska. These scientists use carbon, water and energy flux measurements to assess responses and feedbacks of terrestrial ecosystems to the environment, including changes in climate, land use, and extreme events such as droughts, storms, or wildfire. As a grassroots, investigator-driven network, AmeriFlux members tailor instrumentation to suit each unique ecosystem. Scientists use AmeriFlux data sets to examine crucial linkages between ecosystem processes and climate responses.

The AmeriFlux Network is supported by the AmeriFlux Management Project (AMP; see ameriflux.lbl.gov), which provides free services and tools to those who contribute flux data from sites in the Western hemisphere, and to those who use it. These resources are funded by U.S. DOE, Office of Science, and managed by the AMP team at the Lawrence Berkeley National Laboratory.

When you join this community, you'll encounter opportunities for new collaborations, and increase visibility of your research. Adding your data to the AmeriFlux database will fulfill funding agencies' data management requirements, and will strengthen your proposals. AmeriFlux site data are automatically included in FLUXNET.



Map of AmeriFlux Locations. AmeriFlux sites throughout the Western Hemisphere.



Ameriflux Tech Team. Stephen Chan suits up with UMBS site manager Chris Vogel at the 52 meter US-UMB tower during a Tech site visit, summer 2017.



Ameriflux Tech Team. Stephen Chan checking the Ameriflux portable eddy covariance system (PECS), comparing data to that of the Ameriflux US-UMB site's eddy covariance system. Photo credit: Chris Vogel.



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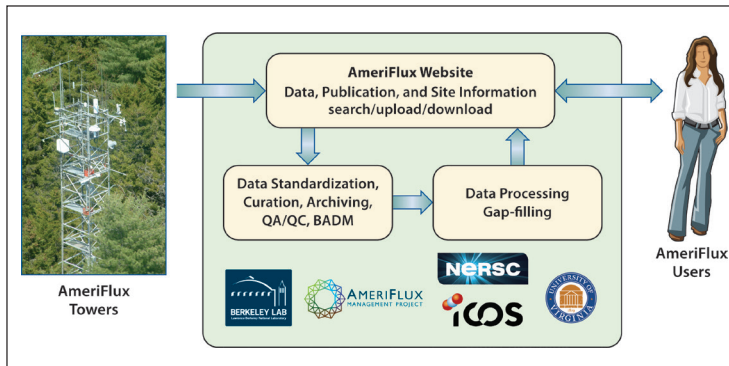
science.energy.gov/ber/

Sign up your site — reap the rewards!

- Get free calibration gases! (CO₂ and CH₄)
- Use data services that provide:
 - Gap-filling for meteorology and flux data
 - Annual budgets
 - Uncertainty estimation
 - Standardized data products
 - Automated issue detection
- Keep your primary network affiliation
- Archive your data safely, including high frequency data
- Have technical advisors visit your site and help improve data quality (free!)
- Get free technical support and advice
- Receive site characterization from UAS imagery:
 - Visible imagery
 - NDVI
 - Albedo
 - Thermal imagery
- Borrow a PAR sensor to calibrate your own PAR sensors

- For that unique research opportunity, borrow one of the rapid response systems (for up to three years)
- Keep collecting your data while an instrument is calibrated or repaired! Use the free loaner program:
 - CO₂ /H₂O
 - Four component radiometers
 - Sonic anemometers
 - Open path methane analyzer
- Participate in free annual Data & Tech workshops
- Share your data with your peers; get credit and increase your site's visibility
- Get a DOI for your site's dataset
- See who is downloading your data
- Find out how many times your site's data is downloaded
- Take our online safety courses and get credit

Connect with your peers: join the AmeriFlux community email list, participate in principal investigator meetings, post highlights of your research, and share photos and special figures.

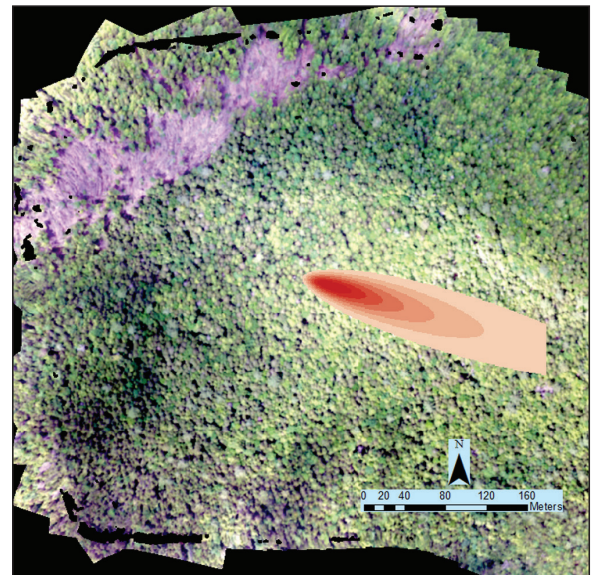


How the Data are Treated. Data are uploaded, checked for quality, and archived. After validation, data are freely and publicly available to the global scientific community. The AmeriFlux Network coordinates with other flux networks around the world to standardize data sets and create value-added data products so that researchers can more easily compare across continents and improve Earth System Models.

What do you need to do to register a site?

1. Create your personal account
2. Submit the site general information form (ameriflux.lbl.gov)
3. Submit data within 3 years to keep your site active

Note: Data for sites already closed are also welcome. Please consider investing the time to review data collected in the past, and sharing the data with everyone.



Elias Ayrey shared his figure of the June 2016 Aerial Orthomosaic With Footprint. This image shows a 35 ha blowdown which occurred 120m to the northeast of the AmeriFlux tower US-Ho2, along with a projected eddy covariance footprint given a westerly wind. See more at the AmeriFlux Image Gallery— <http://ameriflux.lbl.gov/community/image-gallery/>.

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