

Poster# 64

The AmeriFlux Management Project: Overview, Outreach, and Online Activities.

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The AmeriFlux network is a community of sites and scientists measuring ecosystem carbon, water, and energy fluxes across the Americas using eddy covariance techniques. AmeriFlux datasets, and the understanding derived from them, provide crucial linkages between terrestrial ecosystem processes and climate-relevant responses at landscape, regional, and continental scales.

The AmeriFlux Management Project (AMP) was established by DOE in 2012 to support AmeriFlux and the use of its data by a broad community. We work to advance the value of the network for basic research and Earth System Model improvement, innovative measurements, and data synthesis. AMP has teams dedicated to four tasks: Core site support; Technical support and QA/QC; Data support and QA/QC; and Outreach. These efforts are paying off.

The AmeriFlux network is strong and growing. Since 2012, the number of AmeriFlux sites has nearly doubled, to 261, with more sites outside the U.S. and in underrepresented ecosystems. Likewise, the number of site-years of data in the archive increased by 50%. Still, many sites have not yet submitted their data, and we are working with them. AMP is supporting operations for 14 clusters of long-term flux sites, maintaining the continuity and accessibility of these time series. The AmeriFlux Science Steering Committee is operating under a new, more independent charter. In collaboration with ICOS (Europe) and FLUXNET (global) networks, in the past year we completed the release of the FLUXNET2015 dataset for synthesis research. See the Data team poster for more on data processing and products, and the Tech team poster for results from the IRGA intercomparison and tests of sonic anemometers.

In addition to technical and data progress, AMP engages the AmeriFlux community. At the Data-Tech Workshop, held with the 2016 PI meeting in Colorado, attendees worked with the tech and data teams to improve data processing at the site-level and data reporting. AMP incorporated feedback from community members to implement several website improvements. Flux sites can be now searched through maps, keywords, and multiple filters. Site sets can be created to access frequently queried sites with a single click. Each AmeriFlux site's webpage now contains not only general site information but also a newly implemented DOI for each site's data, Data Usage Log, Publications, Imagery, and access to Biological, Ancillary, Disturbance, and Metadata (BADM) information. Two major improvements are an online interface allowing a site's general info BADM to be updated easily and immediately, and publications can be added to the publication database using only the article DOI if desired. This poster will provide highlights of recent outreach and user-experience activities and accomplishments, and solicit input on how we can continue to improve our service to data contributors and data users.