

Title: AmeriFlux Management Project Tech Team

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Abstract:

AmeriFlux's goal is to develop a network of long-term CO₂ flux sites for quantifying and understanding the role of the terrestrial biosphere in global climate change. The network currently includes more than 100 sites started by many scientists and supported by multiple agencies (DOE, NSF, USDA, NFS). The AmeriFlux Management Program (AMP) Technical QA/QC at LBNL strengthens the entire AmeriFlux Network and Core Sites by—

- standardizing operational practices, calibration, and maintenance routines,
- setting clear data quality goals,
- helping resolve instrument failure promptly.

To ensure inter-comparability in the network, we conduct site comparisons with portable eddy covariance (PEC) systems, provide calibration gas standards and lab-quality sensors to check instrument performance, and identify uncertainties associated with data processing using data diagnostics and gold-standard files.

Our team is experienced in testing new instruments and working with manufacturers, and is building relationships with both vendors and investigators. We have completed 17 QA/QC site visits in since the beginning of the project