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ABSTRACT TITLE: The AmeriFlux Management Program: Overview

ABSTRACT: AmeriFlux is one of the DOE Office of Biological and Environmental Research’s (BER) best known and most highly regarded brands in climate and ecological research. 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 LBNL-led AmeriFlux Management Program (AMP) is working to enhance this important BER program. Our primary objectives are (1) maximize the quality of AmeriFlux data and its usability for a broad community; (2) expand the network’s impact as a virtual facility for basic research and Earth System Model (ESM) improvement; (3) foster innovative measurements; and (4) sustain the long-term record of carbon, water, and energy fluxes and site metadata being collected by a cohort of AmeriFlux sites that span a spectrum of climate and ecological spaces across the Americas. We are working to (1) provide enhanced technical support, including quality assurance/quality control (QA/QC) and new data submission methods for the entire AmeriFlux network; (2) host an AmeriFlux Network website, organize the Annual Meeting, and conduct other outreach and community functions; (3) Support the operation of about 15 existing long-term AmeriFlux Core Sites; (4) produce standardized gap-filled datasets and tools that will enable modeling, synthesis, and other research with AmeriFlux data; (5) provide high-quality data and metadata to the Carbon Dioxide Information Analysis Center (CDIAC).

The Data Processing and QA/QC component of the Program will support all sites in the Network including the AMP-funded Core Sites. This component of the program will provide a centralized portal for data processing and management including: standardized data processing; data uncertainty estimation and quality flags; gap-filled, quality-assured, versioned data sets in conjunction with CDIAC; and advanced data reporting tools to aid data providers. We will archive and version high frequency data; and make data processing capabilities available to all AmeriFlux sites via our new, fast-evolving web portal.

Information on the AMP Technical Support and QA/QC, and the Longterm Core Sites of the AmeriFlux Network will be presented in this poster or an adjoining one.

Community Outreach and Engagement is being facilitated via our new website, the annual AmeriFlux meeting (next in 2014), and workshops. The AmeriFlux Science Steering Committee (SSC) is being maintained as an independent advisory group and augmented with a Science Advisory Board linking AmeriFlux to major stakeholders.