FluxNet
Integrating Worldwide CO_2, Water and Energy Flux Measurements

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In this issue of the FluxLetter, we present two historical More

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FLUXNET ANNOUNCEMENTS

FluxNet Newsletter Vol. 5 No. 2

Mar 7, 2013

In this issue of the FluxLetter, we present two historical accounts; one is a history of flux measurements using the eddy covariance method. The second is a history of the development of flux measurements specific to urban ecosystems. We also profile the Yatir Forest in Israel; a pine forest established at the semi-arid dry timberline. Lastly, Dennis Baldocchi offers a tribute to Shashi Verma; a pioneer in the flux community who has recently... More

Deadline Approaching - Early Career Scientist in Global Change Research

Feb 14, 2013

This is a reminder that the application deadline for this event is approaching.

Please distribute – especially to eligible Early Career Scientists! Application deadline is April 30, 2014.

See attached .pdf for details. More

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Introduction

FluxNet, a "network of regional networks," coordinates regional and global analysis of observations from micrometeorological tower sites (Figure 1). The flux tower sites use eddy covariance methods to measure the exchanges of carbon dioxide (CO_2), water vapor, and energy between terrestrial ecosystems and the atmosphere.

At present over 650 tower sites are operated on a long-term and continuous basis (Figure 2). Vegetation under study includes temperate conifer and broadleaved (deciduous and evergreen) forests, tropical and boreal forests, crops, grasslands, chaparral, wetlands and tundra. Sites can be associated with regional or domain networks or can be unaffiliated. Flux towers operate on five continents and their latitudinal distribution ranges from 70 degrees north to 30 degrees south.

The FluxNet database contains information about tower location and site characteristics as well as data availability (See FluxNet database). Eddy covariance data at 30-minute frequency are typically maintained, not by FluxNet, but by individual towers or by networks to enable standardized data processing, gap-filling, and formats.

FluxNet, which is a component of NASA's ORNL DAAC (Distributed Active Archive Center), has several primary functions:

- Provides infrastructure for a central database of site characteristic data (land cover, climate, meteorology, plant, and soil data);
- Maintains information about the availability of flux data along with links to the flux data at individual towers or at networks;
- Maintains information about the availability of flux data along with links to the flux data at individual towers or at networks;
- Archives flux data associated with manuscripts (Chapin et al. 2002), workshops (Falge et al. 2005), as well as site characteristics and ancillary data about flux tower sites (Luyssaert et al. 2009);
- Compiles, archives, and distributes carbon, water and energy flux measurements for unaffiliated sites and others, as requested; and
- Provides information for evaluating remote sensing products, such as primary productivity, evaporation, albedo, and energy absorption.

In a related effort, the ORNL DAAC provides subsets of remote sensing products (MODIS Land Products) for an area 7 x 7 km around each flux tower in the FLUXNET collection.

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