



EasyFlux PC Eddy-Covariance Post-Processing PC Software



Fully Corrected Fluxes

Datalogger program that computes fully corrected fluxes of CO₂, latent heat, and sensible heat

Overview

EasyFlux[®] PC is a free computer program that processes high frequency time series data, collected using a Campbell Scientific eddy-covariance flux system, into fluxes following

community accepted practices. Fully corrected fluxes of CO_2 , latent heat (H₂O), sensible heat, and momentum are available in generic, AmeriFlux, and GHG-Europe ASCII formats.

Benefits and Features

- Intuitive and easy to use; begin processing data in under a minute
- > Uses community tested and reviewed, open source software
- Supports native Campbell Scientific TOB1 file format collected from an open-path eddy-covariance system (IRGASON or EC150 with CSAT3)
- Available at no charge

Technical Description

Provides fully corrected outputs of CO₂ flux, latent heat flux, and sensible heat flux at a user-defined interval (e.g., 30 minutes). Also provides many other variables of atmospheric properties, instrument diagnostics, and intermediate corrections.

Default processing:

- Despike and filter data using sonic anemometer and gas analyzer diagnostic codes, signal strengths, and measurements output range threshold
- Apply coordinate rotation with an option to use the double rotation method (Tanner and Thurtell, 1969) or planar fit method (Wilczak et al., 2001)

- Lag CO₂ and H₂O measurement against sonic wind measurement for maximization of CO₂ and H₂O flux (Horst and Lenschow, 2009; Foken et al., 2012)
- Apply low-frequency correction following Moncrieff et al., 2004
- > Apply high-frequency corrections following Moncrieff et al. (1997), Massman (2000, 2001), or Horst (1997)
- Correct sonic temperature for the effect of humidity following van Dijk et al., 2004
- Apply correction for air density fluctuation using Webb et al., 1980
- > QA/QC data quality checks following Foken (2003)



For comprehensive details, visit: www.campbellsci.eu/easyflux-pc

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