Biogeosciences

Discussions

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Interactive comment on "Dynamic INtegrated Gap-filling and partitioning for OzFlux (DINGO)" *by* Jason Beringer et al.

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Received and published: 17 June 2016

GENERAL COMMENTS

This manuscript describes a dynamic integrated gap filling and partitioning tool (DINGO) developed for standardized processing of OzFlux station data. The tool is designed to gap fill both meteorological variables and fluxes, besides it partitions the net flux into its components (Gross Primary Productivity and Ecosystem Respiration). Although it raises the important issue of a standardized post processing for meteorological and eddy flux data at network level, unfortunately the manuscript doesn't introduce important novelty aspects, and it sounds more like a technical note than a scientific contribution. It provides a very detailed description of the tool, but lacks of analysis and interpretation. Besides, most of the figures included in the manuscript are standard diagnostic or result plots provided by the tool itself and not the result of an in depth analysis of the tool behavior, performance or applicability. Some important aspects that

should be faced and deepened are not included, as for example: the evaluation of the tool performances and their dependence on gap percentage, length and distribution, a comparison with other existing gap-filling and partitioning tools, an analysis of the effects of the gap filling on annual sums... Results of the uncertainty estimation would also enrich the work, together with some performance analysis at site/PFT level. A technical observation: u* filtering should be applied before gap filling since it introduces gaps in the time series. For the above mentioned reasons, I do not think that the manuscript, in its present form, is suitable for publication in Biogeosciences.