Interactive comment on “FluxnetLSM R package (v1.0): A community tool for processing FLUXNET data for use in land surface modelling” by Anna M. Ukkola et al.

Anonymous Referee #1

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The paper submitted by Ukkola et al. “FluxnetLSM R package (v1.0): A community tool for processing FLUXNET data for use in land surface modelling” presents a tool for the transformation and processing of FLUXNET data in order to make them directly available for LSM. The motivation is for sure important for the promotion of use of multiple data streams in LSM validation.

However, the work presented doesn’t have any relevant innovative concept or proposal. In fact, despite the import and export functions, change of format to NETCDF, renaming and unit conversions and summary plots (all steps that I don’t think limits the use of data in LSM), there are no real innovations.

The gapfilling of the meteorological drivers that is proposed (section 2.4.3) is
an important step where gaps not filled in the timeseries are merged with the ERA-Interim versions, including the creation of a quality indicator. This activity however, looking to the variables description in FLUXNET available at http://fluxnet.fluxdata.org/data/fluxnet2015-dataset/subset-data-product/, is already done in the FLUXNET product (e.g. from the table in the website TA_F = Air temperature, consolidated from TA_F_MDS and TA_ERA, TA_F_QC = Quality flag for TA_F 0 = measured; 1 = good quality gapfill; 2 = downscaled from ERA).

For this reason the paper doesn’t have the needed advances, novel concepts, ideas or tools to be considered for publication.