

## Interactive comment on "Improved representations of coupled soil-canopy processes in the CABLE land surface" by V. Haverd et al.

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Pleas see "figure1-pdf" for revised manuscript.

Please also note the supplement to this comment: http://www.geosci-model-dev-discuss.net/gmd-2016-37/gmd-2016-37-AC1supplement.pdf

Interactive comment on Geosci. Model Dev. Discuss., doi:10.5194/gmd-2016-37, 2016.

## C1

Improved representations of coupled soil-canopy processes in the CABLE land surface model

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Correspondence for Vatiesta Interest (Vatiesta Intervent Vatiesta Intervent) (Abstruct, CABLE is a global land surface model, which has been used extensively in offline and coupled simulations. Wh CABLE performs well in comparison with other land autor face model, results are impacted by decoupling of transpiration a a solution to this problem, ensuring that modeled intraparitation is advays consistent with modeled photosynthesis, white introducing a particular terpresentation of coupled sole-ampropresesses by introducing an alternative hydrology model with a physically accurate representation of coupled avery and surface and the olial antifectic, including and more realistic effects of these model devolutions are assessed using data from 18 statuses from the global oddy-covariance FLUX NETWOR, selected to gran a large climatic range. Marked improvements are demonstrated, with not-in-spanced errors for monthly latent heat flaces and water use efficiencies in the olian set demonstrated with not-in-spanced errors for monthly latent heat flaces and water use efficiencies in a large climatic range.