

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

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This paper presents a thorough examination of the impact of various improvements to the CABLE land surface model. Covering several really interesting aspects of land surface modelling: the drought response of the vegetation through their roots, the aerodynamics of the canopy and its effect on the energy and water balance and the addition of a leaf litter layer to inhibit the evaporation from the bare soil. All of these aspects need improving - probably in many of the current land surface models - and it is really interesting to see a paper lay all these out and then check the performance against some data. I guess the only thing missing is to see the performance checked when it is run in coupled mode - but I suppose that is the task of a different paper. This one is really setting the scene and explaining the changes to the model. I think it suits the journal well and it will be of interest to many readers - both users of the CABLE model

and to other modellers. It is also good to see the data used in an intelligent way.

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