

***Interactive comment on “Tiling soil textures for terrestrial ecosystem modelling via clustering analysis: a case study with CLASS-CTEM (version 2.1)” by Joe R. Melton et al.***

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I enjoyed reading this paper - it is extremely well written and logical in its presentation. I think modellers will find themselves informed by it. However, I came away somewhat frustrated not to hear more about the other aspects of the model that might have been affected by this tiling approach. For instance, I would like to see plots of the soil moisture, the evaporation and the drainage (or groundwater recharge) from the models. These land-surface models such as CLASS are increasingly not only used for ecosystem dynamics and soil tiling might make more difference to other applications such as hydrology (droughts, groundwater recharge). This might light up the paper a little especially since the impact on GPP was so small. For instance, you might find a bigger

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story to tell with drainage since it is non-linearly related to soil moisture. I think a few extra plots should be enough.

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