

## ***Interactive comment on “Parameterizing complex root water uptake models – the arrangement of root hydraulic properties within the root architecture affects dynamics and efficiency of root water uptake” by M. Bechmann et al.***

### **Anonymous Referee #2**

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General comments: Over all, this article shows certain progress of root water uptake models. During discussions, author correspond various comments in consciously.

Specific comments: 1. Accuracy of the model How to evaluate the accuracy of this model? Author introduced “water yield” and “effort”. Reader would confuse of reproducibility of water yield and effort. Author did not show enough information on the observation of those functions. If author did not show them, this model would be just a model. 2. Root geometry: Is this model able to apply to represent water uptake of

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actual plant? For instance, in Figure 7, author sowed the root water uptake dynamics in fixed root geometry. What kind of plant did you imagine? Some plants have young roots mainly in upper region, where near ground surface. 3. Unit In Table 2, “saturated soil water conductivity” should be “saturated hydraulic conductivity”. And author should not use micro but 10<sup>-6</sup> (ten powered by minus one).

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 757, 2014.

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