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Comment

Interactive comment on “Climate-vegetation-soil interactions and long-term hydrologic partitioning: signatures of catchment co-evolution” by P. A. Troch et al.

P. A. Troch et al.

patroch@hwr.arizona.edu

Received and published: 30 March 2013

We thank Dr. Savenije for his kind words and for suggesting some improvements to the manuscript.

1. He suggests we should use more generic terms to interpret our modeling results and how model characteristics affect hydrological partitioning. We agree and will change the phrase “time scale that controls perched aquifer storage release” into “time scale of subsurface storage release”.
2. We thank Dr. Savenije to point us to Gerrits et al. (2009), which is indeed a relevant paper to cite regarding ecosystems control on hydrological partitioning. In the revised

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version we will refer to this paper and discuss it in this context.

3. We agree to replace “evapotranspiration” with “evaporation” throughout the text.
4. We will replace the symbol EP by the symbol E_p to refer to potential evaporation.
5. We will spell out the names of the states in which our 12 catchments are situated. We believe it is important to give this geographical context because it is associated with a specific climate (Iowa (IA) being very different than Louisiana (LA), for example).

On behalf of the authors,

Peter Troch

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 2927, 2013.

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