

Interactive comment on “From near-surface to root-zone soil moisture using an exponential filter: an assessment of the method based on in-situ observations and model simulations” by C. Albergel et al.

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First of all, I wish to thank the reviewers for their extensive and very valuable reviews!

Based on the reviews, I recommend the authors to resubmit their document accounting for each of the different issues raised by the reviewers.

Special attention needs to be paid to the soil moisture definitions, the normalisation process, and the units used as this causes a lot of confusions. Furthermore, the dis-

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cussions should reflect on SWI results versus the actual soil moisture content, as this will enhance the practical use of the technique.

An important issue involves the effect of climate, season and soil texture on T. This was raised by several reviewers and needs to be addressed more carefully.

The “material and methods” part should be shortened whereas the discussion part should be elaborated, accounting for suggestions raised by the reviewers.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 1603, 2008.

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