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Hydrology and Earth System Sciences
Discussions

Interactive comment on "A new probability density function for spatial distribution of soil water storage capacity leads to SCS curve number method" *by* Dingbao Wang

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Dear Ali: Thank you for the comments. I agree with you that the proposed distribution could be tested using soil water storage capacity data, and the proposed distribution could be used in saturation excess runoff models such as HyMOD for evaluating its performance. As discussed in the Conclusions section, these could be future research. This paper is focused on the unification of SCS curve number method and saturation excess runoff generation model such as VIC, Xinanjiang, and HyMOD.

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Discussion paper