Hydrology and Earth System Sciences Discussions

Interactive Comment

Interactive comment on **"Rainfall threshold for hillslope outflow: an emergent property of flow pathway connectivity"** *by* **P. Lehmann et al.**

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This paper presents an interesting approach to model the behavior of hillslopes that could be very useful for future hypothesis testing. The paper is well structured and the model assumptions are very well presented. I think however that the paper could greatly benefit from a more concise presentation of the modeling results and in particular of the application to Panola and the parameter identification process.

You had to adapt the resolution of your grid to capture one of the events. This shows that the simple model is too "rigid" for a given resolution. As it is only one event, this seems negligible. But it would be interesting to shortly discuss how the model could be modified to become more flexible.

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Interactive Discussion

Discussion Paper

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