

## ***Interactive comment on “Coupled local facilitation and global hydrologic inhibition drive landscape geometry in a patterned peatland” by S. Acharya et al.***

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We thank the anonymous reviewer for recognizing our effort on this paper. We agree with the reviewer that there are some inherent limitations associated with the cellular automata (e.g., Menard and Marceau, 2005; Pan et al; 2010; Kocabas and Dragicevic, 2006 etc.) and geostatistical approaches such as semivariogram modeling (e.g., Lausch et al., 2013; Atkinson and Tate 2000; Atkinson, 1993 etc.,) we use in our paper. However, these limitations are well understood and thoroughly documented in the literature. In addition, we are confident that these limitations had little impact on the inferences we drew on the model performance. Incorporating these limitations in the

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manuscript would also make the paper undesirably long and digress our discussions from the main focus of the study, understanding mechanisms of ridge-slough pattern evolution. Therefore, we have not included this in the manuscript.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 1247, 2015.

**HESD**

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