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Interactive comment on "Modelling confluence dynamics in large sand-bed braided rivers" by Haiyan Yang and Zhenhuan Liu

Anonymous Referee #1

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The paper reports some qualitative aspects of anabranch confluence kinetics in braided rivers based on a computational morpho-dynamic model. This approach to describing and analyzing confluence dynamics is new and I am not aware of any similar published work. This topic has been approached previously using field observations and physical modeling. The paper contains 5 itemized conclusions. None of them are new and some have been well known in the literature for 20 years or more, including from some of the papers cited in the manuscript. For that reason alone I cannot support publication of the paper. However, the fact that the dynamics can be reproduced in a computational model is very useful, in which case the paper could be re-written to focus on the ways in which the model reproduces known aspects of confluence morphology and dynamics, and perhaps any observed differences for the sand bed case

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versus existing gravel-bed examples.

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