

## ***Interactive comment on “Modelling confluence dynamics in large sand-bed braided rivers” by Haiyan Yang and Zhenhuan Liu***

**Anonymous Referee #2**

Received and published: 4 February 2019

This manuscript describes the set-up and execution of a numerical model to simulate the morphodynamics of a sand-bed river. The model parameters are based upon a river sand-bed river. The model is run for 48 days of simulation time. The subsequent bed topography predictions are used to analyse confluence dynamics. Page 4 Line 14 states that “the main objectives of the study are to quantitatively analyse changes in flow field, sediment concentration and bed elevation at typical confluences, compare them with those observed in natural rivers, and investigate evolution processes at confluences and the controlling factors.” Sections 3 and 4, which describe and discuss the results, are written in a fairly general style; the data presentation and analysis lacks the rigor that is necessary to investigate the manuscript’s objectives. There is a dearth of quantitative comparison to natural rivers and the single simulation does not provide

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the experimental framework that is necessary to answer the research question.

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Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2018-85>, 2018.

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