

Interactive comment on “Geomorphic signatures of the transient fluvial response to tilting” by Helen W. Beeson and Scott W. McCoy

Jens Turowski (Editor)

turowski@gfz-potsdam.de

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Dear authors,

we have received two solicited reviews of the paper and a host of unsolicited comments (making the manuscript, in fact, the one that has been most commented on in the history of ESurf!). The solicited referees agree largely in their assessment: the paper is interesting, well written and deals with an important topic. The modelling approach is appropriate and the theoretical results are convincing. There are some questions for technical details and requests for clarification. The main concerns are related to the choice of the field area and the development of the comparison between field example and model results. Both reviewers suggest that the Sierra Nevada is not an ideal choice

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for a field test due to its complex history with regards to tectonics and glaciation and the variable geology. The unsolicited comments by Gabet make a similar point. In fact, Gabet thinks there is field evidence contradicting your interpretation. I take these comments seriously and I hope you make all necessary efforts to address them. In any case, it is great to see so much discussion and that you seriously engage with it.

For a revision, please take all the comments into account and provide a detailed rebuttal. In light of the comments on the choice of field area, you may want to think about choosing a different area or adding a second case study.

I am looking forward to seeing your revised paper and thanks for your efforts.

With best wishes, Jens Turowski

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