

Interactive comment on “Estimating confidence intervals for gravel bed surface grain size distributions” by Brett C. Eaton et al.

Jens Turowski (Editor)

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Dear authors,

we have now received two comprehensive reviews of the paper. both reviewers agree that this is a potentially important contribution, but they also highlight a number of shortcomings. The main criticisms are common in both reviews: 1) The new method for calculating uncertainties is insufficiently described and can, from the information currently available in the manuscript, not be reproduced. 2) It is unclear what aspects are new and what the improvements and benefits of the method are in comparison to existing methods. Within this context, both reviewers call for a more comprehensive literature review, and a comparison with existing methods. There are further queries

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on the details of the statistics and data generation. Both of the points above seem to be essential to me if you want to make this paper a useful contribution for the community. When revising the paper, I ask you specifically to think from the perspective of a potential user. You could supply a flow chart or table that enumerates the steps that need to be taken to apply your method to a data set. It would also be good if you could supply a script as a supplement.

Please provide a detailed reply to the referees comments when you submit your revised paper.

I am looking forward to seeing you revisions, with best wishes, Jens Turowski

Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2019-4>, 2019.

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