

Interactive comment on “Topographic uncertainty quantification for flow-like landslide models via stochastic simulations” by Hu Zhao and Julia Kowalski

Anonymous Referee #2

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Interactive comment on “Topographic uncertainty quantification for flow-like landslide models via stochastic simulations” by Hu Zhao and Julia Kowalski Anonymous Referee #2 Received and published: 15 February 2020 (General comments) The authors took laudable efforts to quantify reliability of final outputs of simulations (e.g. hazard maps). The chief subject here is topographic ones lying within pre-existing 5m HK-DTM and 2m DEM created post-event. The time difference is referred clearly (5. Line 301) and does not seem to affect the results in significant ways because of the introduction and through use of unrepresentative RMSE and subjective d. The non-affectedness itself is crucial in that every hazard map is drawn before mishaps.

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(Specific comments) The argument depends hugely upon results obtained and shared in the second JTC1 workshop (5. Line 394), which contributes to reduce three uncertain factors other than DEM to a negligible level. Zone area and fracture height can be re-adjusted, given the very results of the authors, however. The necessity (or the negation thereof) of feed-back and of iteration in the future should be commented either in 5 or in 7.

Another minor but non-negligible issue is conditions of the channel base treated in the case study (5). The presence or absence of sizable standing trees with roots is to be mentioned 5 Line 289, given the fracture height of 1.2m.

Note: Typing errors are not discovered.

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