

Interactive comment on “Formation, breaching and flood consequences of a landslide dam near Bujumbura, Burundi” by Léonidas Nibigira et al.

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Dear colleagues,

The research proposed by Nibigira and co-authors focuses on landslide damming and possible subsequent flood occurrence in Bujumbura. More specifically, the authors focus on a large landslide that develops in a watershed flowing toward the city center. The first part deals with geophysics and landslide 3D and 2 D reconstruction. The second part is with the modelling of the landslide. The third part deals with the simulations of the floods and their associated hazard induced by dam breaching. The manuscript presents interesting results for such an understudied region; especially when one considers that in these African regions data scarcity is commonplace.

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I agree with the comments and suggestions by the first reviewer. I have therefore done my review accordingly (see supplement material). This includes minor to moderate comments and technical corrections. Two points I insist to are the weathering of the lithology and, for the introduction, the data-scare context and methodological challenges of the study area.

Regards

Olivier Dewitte

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2017-372/nhess-2017-372-RC2-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2017-372>, 2017.

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