

## ***Interactive comment on “Reconstruction of the 1941 GLOF process chain at Lake Palcacocha (Cordillera Blanca, Perú)” by Martin Mergili et al.***

### **Anonymous Referee #2**

Received and published: 30 September 2019

The paper deals with r.avaflow-modelling of the GLOF process chain at Lake Palcacocha, back in 1941. The topic is very important, as the model could be used to simulate future hazardous events at the investigated site. Hence, the paper is relevant and lies within the journal’s scope. The following aspects could be addressed as well:

- The detailed arguments for the four chosen scenarios are not completely clear and it would be very interesting to inform the reader with more details.
- In addition, a sensitivity analysis would be of great interest and an explanation of the range of model errors. This could maybe also be an explanation for the scenarios.
- The authors could give a clearer recommendation about the use of the current model for modelling future events. Since the input data is not clear, what about the model parameters to be used? This refers again to the sensitivity analysis and model errors.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-357>, 2019.

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