

Nat. Hazards Earth Syst. Sci. Discuss., author comment AC1  
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## Reply on RC1

Weijie Zou et al.

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Author comment on "Using a single remote-sensing image to calculate the height of a landslide dam and the maximum volume of a lake" by Weijie Zou et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2022-35-AC1>, 2022

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### Dear reviewer #1:

Thank you for your positive feedback! And we take your suggestion into serious discussion.

In our way of validating the theory, we have used some medium data such as the real lake area in the image and the evolution of the riverbed in order to take the error under control and support the process we promote. We think that the factor that influences the reliability of the outcome most is the process that we decide the input parameters. Therefore, we have performed sensitive analysis on the input parameters and the image solution. **We agree that using only one example is vulnerable, and thus, in the following work, the discussion based on more cases will be carried out to support our method. And we are looking forward to more scholars taking part in the discussion about this method.**

Kind regards.