

Interactive comment on “Anthropogenic climate change and glacier lake outburst flood risk: local and global drivers and responsibilities for the case of Lake Palcacocha, Peru” by Christian Huggel et al.

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Author response: We much appreciate this careful analysis provided by Will Frank. We also appreciate the transparency he provides in being involved in the RWE vs Saul Lliuya case. Accordingly, his analysis departs from ours and offers a different perspective. Our intention is not to analyze issues specifically pertinent to the ongoing legal case, and hence our objective is not to perform an analysis of causality. Rather, our focus is on a comprehensive approach to analyze how multiple drivers of risk, dynamically and over time combine to result in the risk people of Huaraz currently

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face vis-à-vis a GLOF from Palcacocha. We connect this analysis with the discussion of different associated responsibilities, but again, do not intend to go into any legal responsibility or liability issues.

We agree that a causal contribution indicating a range is feasible. In our revision we furthermore address the text section in section 7, lines 474-478, about the contribution of RWE to GLOF risk at Palcacocha and Huaraz. While we think that the basic content of the statement holds valid we recognize that some precision in wording is needed. As addressed in response to the comment below we can distinguish between GLOF hazard and risk, and related attribution, and the ability to quantify contributions by GHG emitters. In the revised version we refer to the potential (and limitations) of quantifying the contribution of global GHG emitters, possibly also indicating a range of contribution. However, we continue to put this in a context of broader risk responsibilities.

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