Author's Response

Felix S. Fauer, Jana Ulrich, Oscar E. Jurado, Henning W. Rust

November 15, 2021

Dear Xing Yuan,

We hereby submit the new and revised version of our manuscript *Flexible and Consistent Quantile Estimation for Intensity-Duration-Frequency Curves*. We would like to thank you and the reviewers for your constructive comments which we addressed in the new version. In the following, the comments and our answers are listed point-by-point.

Sincerely,
Felix Fauer (on behalf of all authors)

Comment 1: Please clarify the the limitations of the study (e.g. scarce data availability precludes the reasonable estimation of the shape parameter).
Answer: Thank you for this remark. In lines 371-375, we added a short paragraph about the limitations of the shape parameter estimation and a possible solution on how scarce data availability can be dealt with in extreme value analysis.

Comment 2: Provide a broader implications of the study.
Answer: Thank you for pointing out that broader implications of the study were not clear. These changes were made: In lines 49-51 we shortly describe the advantage of a model extension. In line 381 we added a short remark about broader implications. In lines 388-390 we explain why improving efficient estimation is important and how these insights can be used.