

Authors' reply to referees' comments

We would like to thank the reviewer for the constructive comments and the time spent on the review of this article. Following the suggestions of the reviewer, the manuscript has been edited at several places:

- Several textual changes have been made which are specified in the 'Tracked Changes' document. In addition, the figures were edited.
- The Study Area subsection is now an individual section.
- Based on the first revision of the manuscript, the former "Data & Methods" was renamed "Material & Methods". However, as strongly suggested by referee #2, we separated the sections to improve readability.
- An alternative method and reference on automatized filtering to compute a DTM has been added to the discussion.
- Based on the suggestion of the referee to validate the surface water interpolation, ROC curves were plotted and the AUC calculated. As the flood map for the total case study area is derived from SRTM DEM and SAR imagery, and there is no ground truth map to create thresholds for an ROC analysis, we mention the need of validating our proposed method using global DEM's (such as SRTM) in future studies.
- A relevant paper on physical vulnerability assessment in data-scare areas was added to the introduction.

We hope that the revised manuscript will meet your expectations after processing the minor comments. Thank you for your time and efforts, and for considering our manuscript for a possible publication in NHESS.

Yours Sincerely,

Lucas Wouters, on behalf of all co-authors.