

Minor comments

Q: Please carefully reread and edit the results and discussion. There are many wordings which indicate personal opinions and instances where results need to be presented in a more scientific way. For example, line 673f "Of course, as a trade-off, the method, as of now, cannot reconstruct detailed grainsize distribution, ...". Please try to be concise here, avoid repetitions, and quantitatively underpin your statements. Also, several fill-words such as "It should be noted" (L669) should be avoided as well as subjective expressions such as "great alternative" (L661).

A: Thank you for your comment! The chapter has been reviewed and I changed the wording in several places.

Q: In Table 1, you refer to Q1% as the discharge with 1% probability. I assume that this is rather the 1-in-a-100 year flood, or the flood with a 1% annual exceedance probability (or 1% AEP flood).

A: Thank you for your comment! Yes, you are correct. I have corrected the expression accordingly.

Q: In Figure 2, please also indicate the coordinate reference system. From the coordinates, I can see that it is not UTM coordinates.

A: Thank you for your comment! I have indicated the reference system accordingly.

Q: Figure 4 might work better with a horizontal layout. But this might be handled during production.

A: Thank you for your comment! I agree with your idea, however I am not sure how the page setup is going to be edited before printing, so as of now I did not change Figure 4, leaving it to the production stage.

Q: Figure 7 and 8 (and figures in the Appendix) might be difficult to read for people with red-green color vision deficiency. Please consider to use different colors as also notified by the editorial team during review file validation.

A: Thank you for your comment! I have added distinguishable symbols and hatches to the color-scheme, hence I decreased the importance of the colors themselves. The updated figure are: 7., 8., A1, C1, C2, D1, D2, E1, E2,

Q: Code and data availability: Make sure to use permanent repositories for the code and data such as zenodo or figshare

A: Thank you for your comment! I have uploaded the files to Figshare and updated the code and data availability links.