

Authors Response and Main Paper Changes

Dear Editor and Reviewers,

Thank you very much for your constructive comments and positive feedback on our manuscript entitled “Hydrogeology of an alpine rockfall aquifer system and its role in flood attenuation and maintaining baseflow”. As suggested, we made some minor revisions on the manuscript taking into account all the comments of the reviewers (please note our point-to-point responses in the interactive discussion).

The revised manuscript includes the following main changes:

- We extended the literature review in the introduction (*P.3, L 23-31*).
- We added more information about the discharge analysis and evaluation, such as statistical data of the discharge measurements, statistical data of discharge of the different years, and box plots (*P. 2, L. 31ff.; P.8, L. 31ff.; Fig.11; Table S1, S2, and Figure S2 in the Supplement*).
- We described and discussed the results of the tracer tests in more detail, including the second tracer peak and the recovery (*P.12, L. 28ff.; P.14, L. 3-10*).
- We compared our results (discharge characteristics) with other studies and discussed the role of the karst aquifer (*P.10, L. 27ff.; P. 16, L. 7-11; P. 16, L. 30 ff.; P.17, L.14-26; P.18, L. 22-31*).

All changes made are highlighted in blue colour in the revised manuscript.

Thank you very much for your time and effort.

With best regards

Ute Lauber