

- **Reviewer 2**

The manuscript is clearly of good scientific quality and the revisions consider all reviewer's points from the first review. I also consider the two first reviews as of very high quality. The new insights of the 50-year changes of climate variables relevant for rockfall triggering are very valuable and rich in detail and content. On the other hand I wonder, how much we can learn from the given conditional rockfall probabilities regarding relevant open issues of rockfall triggering. The previous reviewers and the authors have also raised this point, and these limitations of the study (regarding predisposition and specific release/trigger mechanisms) are also covered in the discussion section. I suggest to add a discussion of what the conditional rockfall probabilities for specific climate variables could tell us regarding temporal changes of rock fall frequencies, triggering mechanisms and hazards today. Minor comments are related to a several English typing and writing errors, which could be eliminated by AI tools.

- **Authors response**

Thanks to the reviewer for the encouraging comments. We add part in the discussion in the manuscripts according to your suggestions and we correct the minor point related to English typing.