EGUsphere, referee comment RC1
https://doi.org/10.5194/egusphere-2022-567-RC1, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Comment on egusphere-2022-567

Anonymous Referee #1

Referee comment on "The role of thermokarst evolution in debris flow initiation (Hüttekar Rock Glacier, Austrian Alps)" by Simon Kainz et al., EGUsphere, https://doi.org/10.5194/egusphere-2022-567-RC1, 2022

The manuscript investigates a cascade of processes in the Radurschl Valley in the Austrian Alps. The outburst of a (supra-) glacial lake initiated the event, which continued with the failure of a rock glacier front with subsequent debris flow initiation. The deposit of the latter caused the blocking of the valley and the formation of a lake, which was drained to manage the risk related to its possible outburst. The series of events and their description are very interesting and, in my opinion, would enrich the scientific literature. However, I have some concerns regarding the manuscript, which in my opinion could profit from some revisions (see supplement).

Please also note the supplement to this comment:
https://egusphere.copernicus.org/preprints/2022/egusphere-2022-567/egusphere-2022-567-RC1-supplement.pdf