

## ***Interactive comment on “A decade of detailed observations (2008–2018) in steep bedrock permafrost at Matterhorn Hörnligrat (Zermatt, CH)” by Samuel Weber et al.***

**Samuel Weber et al.**

weber.samuel@tum.de

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Dear Editor,

We thank for the constructive and positive feedback. The referees state the study as very interesting and further highlight the research as significant. However, they also identified a few minor issues which mainly concern minor language/editorial changes and a comment regarding the inclusion of technology and online data portal specific sections in this data publication. We addressed all the issues raised by the referees and briefly outline here the main revisions we made:

C1

- We corrected all minor editorial/language issues (Reviewer #1).
- We reduced the complexity and improved the readability by shortening and streamlining the technology and data management section (Reviewer #1 and Reviewer #2). The information on the online data portal are now moved to the appendix.
- We reorganized and extended the field site description (Section 2, Reviewer #1).
- We removed duplicates and streamlined the whole text, mainly in sections 1, 2 and 3.
- We added short reviews of the main conclusions found so far based on this data set (Section 6, Reviewer #2).

In the revised manuscript we addressed all the referees' comments and added in the general response one by one explanations (in blue) to the points raised by the referees. If the Editor wishes, we can publish an updated data. However, we would prefer to provide yearly updates at the beginning of a new calendar year.

With kind regards,  
Samuel Weber + Jan Beutel  
On behalf of all authors

Please also note the supplement to this comment:  
<https://www.earth-syst-sci-data-discuss.net/essd-2019-14/essd-2019-14-AC1-supplement.pdf>

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2019-14>, 2019.

C2