

ESURF – Submission of

“Permafrost in monitored unstable rock slopes in Norway – New insights from rock wall temperature monitoring, geophysical surveying and numerical modelling”

by Etzelmüller et al

Comments to the editor.

We did all small changes in typos found in the document, including Figures 5 and 6. Note that these figures are high resolution originally, and loose some information when copied into the word file and transformed into a pdf.

Fig. 1: still inconsistent GST, why have you not changed? Also compare to BTS

In the explanation in my previous respond document, we wrote:

“Figure caption 1: We added: “GST = Mean Ground Surface Temperature. BTS = Bottom Temperature of Snow Cover (see main text)”. We kept the colouring as these are two different values. BTS is an instant value measured at a certain time, the GST is an annual average. “

Actually the colour which are given are comparable, as a BTS value of above -2°C may correspond more or less to GST well above 0°C. Again, BTS is a value obtained during a certain time, preferable a day during March, where we assume decoupling between atmosphere and ground due to a thick snow cover. GST is an annual average, and not only a temperature in winter/spring time like BTS. But both are of course in the same unit, which may make it confusing for a reader not aware between these differences. However, for me using a different colour scale for one of those data sets would confuse more than help, but this is my opinion and the reason why I would like to keep the coloring. I understand that this may deserve an additional setting in the already long figure caption, but I would like to avoid it.