

Interactive comment on “The annual surface energy budget of a high-arctic permafrost site on Svalbard, Norway” by S. Westermann et al.

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Dear Stephan,
we are thankful for the additional comments and suggestions for improvement of the manuscript. We have included a modified manuscript where the changes are marked in bold. The paragraphs 1, 3.2, 5.1 and 6 have been restructured and extended so they are largely marked as "changed".

In addition to the reviews I have few further comments: In the abstract or in the summary, please include a phrase like “at the example of the year 2008/2009” to indicate the basis for conclusions drawn about annual energy budgets.

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phrase added at the beginning of Sec. 6 Summary and outlook

In the appendix, the equations that do not refer to a discretized system should be written with a partial differential symbol.

corrected

Finally, please carefully follow the formatting guidelines for references, e.g., avoid full capitalization of paper titles.

references checked and if necessary corrected

Contrary to referee 2, I am quite happy with having the location of Svalbard indicated in the Figure.

Fig. 1 left unchanged

In addition, we have inserted these additional corrections:

-Fig. 7: sign of L_{in} changed to fit the sign convention for the fluxes.

-caption Fig. 8: similar to a remark of Reviewer 2, it must be "temperature difference at the gradient tower", not "temperature gradient".

Thank you very much

Sebastian Westermann, Johannes Lüers, Moritz Langer, Konstanze Piel, Julia Boike

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