

Interactive comment on “Thermal characterization of the active layer at the Limnopolar Lake CALM-S site on Byers Peninsula (Livingston Island), Antarctica” by M. A. de Pablo et al.

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Authors thank to the anonymous referee #2 the detailed review of our manuscript. Most of the comments are about to improve the writing, to clarify the ideas and to explain in more detail some topics what we will do for the final version following all the suggestions.

Referee say that some paragraphs are so descriptive. We understand this opinion, but it was our intention, since this work try to characterize the thermal behavior of the ground during the study period, what will be the base for further future work. From our point of view, every detail is important for that future works focuses on the role

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of groundwater, snow coverage, etc. We could be more focused, but in that way we lose the aim of the manuscript. In any case, we will check our descriptions in order to reduce them and be more focused.

One of the last comments from the referee say that the discussion is also so descriptive. We do not agree. We use all the data presented in the results section of the manuscript and we provide an interpretation and a correlation between the different calculations we did. At the end, the objective of this manuscript is characterizing the thermal behavior of the permafrost, it is its description. So, although the discussion seems to be also descriptive, we are discussing the results, such as de possible depth of the permafrost table. On the other hand, we didn't present information about other parameters of the area, air temperature, snow thickness, soils properties, . . . what will be the topic of future works. This manuscript tries to present the thermal behavior, and show our interpretation about the permafrost existence and active layer thermal characteristics. To correlate these properties with the other parameters is the objective of other manuscripts we are already working on.

Finally, we agree with referee #2 about how to improve the design of the figures to be more clear. We will make those modifications on the final version of the manuscript

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