

Hello!

Thanks for the detailed answer, here are our changes according to your comments (in blue).

Please include your response to the reviewer comment also here in the text. Just adding "approximately" is not enough of a clarification as requested by this reviewer.

Line 38: added "in autumn, when moisture in the active layer freezes."

I agree that you include your new data. However, I also would like you to answer (in the text) to the reviewers comment concerning the data gap of the digital system.

The gaps in the data (for both systems) are explained on Line 54. The discrepancies in the data from the two systems are addressed in Line 71 onwards and in the Discussion, on Line 110 onwards. We therefore think that we answered this question.

Please include relevant parts of your response to the reviewer here in the text, rather than just explaining it in your response to the reviewers

Line 81: added "We observe similar delays both when temperature rises and falls."

I suggest to rephrase: The thermistor data from the borehole is available through www.permos.ch (borehole MBP_0319). The data from the digital temperature sensors can be acquired from Marcia Phillips (phillips@slf.ch).

Agreed, we changed it according to your suggestion.