

# Author's response to Editors Comment 2

August 30, 2023

[Thank you for addressing partly my latest suggestions. I will accept the manuscript for publication. Ideally, I would appreciate if you could still remove the Q-based formulation.]

We previously tried other organizing principles as well as grouping the current 11 research questions into fewer and broader questions, but we still think the current approach is the best. The topics we address are too different to group them into more general themes. For example, we tried to group all the thermal aspects (bed thermal model, grid cell interface temperature calculation, weight of minimum adjacent temperature, basal temperature ramp) into one question. However, each of these aspects is a complex topic that needs to be explained and addressed individually. Overall, reducing the number of research questions does not increase the manuscript's readability, nor does it reduce the length of the manuscript.

Furthermore, we do not see the benefit of removing the research questions entirely. The description of the research questions needs to remain in the paper even without the research questions themselves, as it provides key information to understand the context of this manuscript. A reformulated text without the research questions would likely increase the length of the manuscript while decreasing the structure and readability. Therefore, we decided to keep the research questions.