

Dear Nanna Karlsson,

We thank you for your comments on the manuscript. We addressed the two outstanding issues that you have highlighted. We justify further our selection of firn cores in Section 2.4 and we based our modifications on your suggestions. We discuss more thoroughly the possible bias introduced by the climatic forcing. We introduce this subject in Section 2.2 and we refer to the Supplementary Material. In the Supplementary Material, we added an entire section in which we compare RACMO output with Automatic Weather Station data at our study sites, and the discussion is supported by relevant graphs and a Table of statistics of the comparison. Additionally, at the end of the Discussion section in the main manuscript, we give more details on the effect of climatic forcing errors on the simulations of the firn models. Concerning your minor comments, we proceeded to the modifications suggested.

We hope you will be satisfied with our edits.

Best regards,

Vincent Verjans, on behalf of the authors