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**Simulations of Firn Processes over the Greenland and Antarctic Ice Sheets: 1980–2021**

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*We have made the effort to address most of the comments provided by Vincent Verjans, which has helped improve the quality of our manuscript. All changes to this version of the manuscript are in response to their comments as well as updating the numbers and figures to incorporate new model simulations with the CFM bug fixed. Thus, we have re-run our model with the bug fixed and have updated all the numbers accordingly. The bug was very minor, and therefore, the our results/discussion have not changed.*