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*Supplement of*

## **Implementation of higher-order vertical finite elements in ISSM v4.13 for improved ice sheet flow modeling over paleoclimate timescales**

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## Supplementary figures

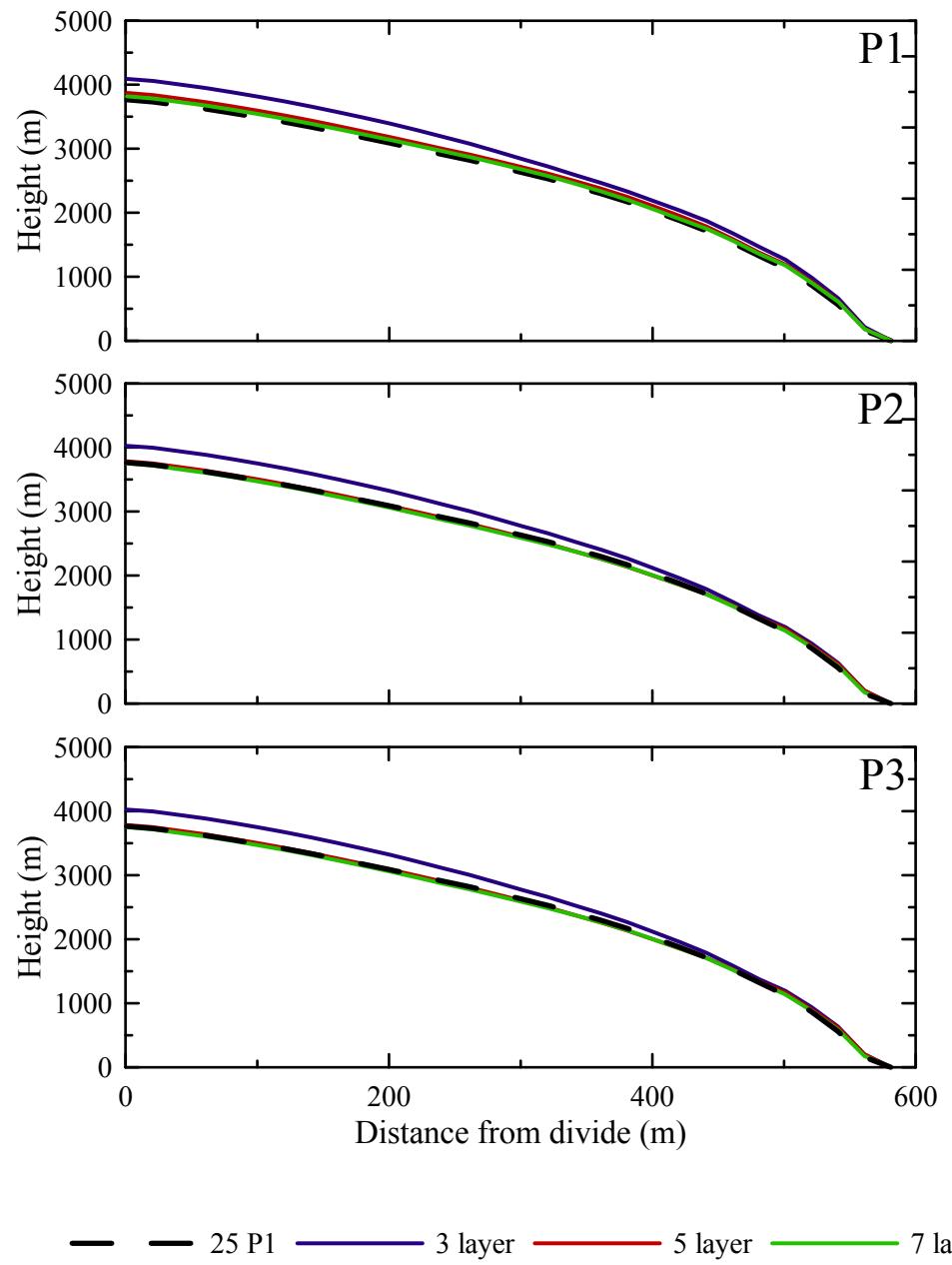
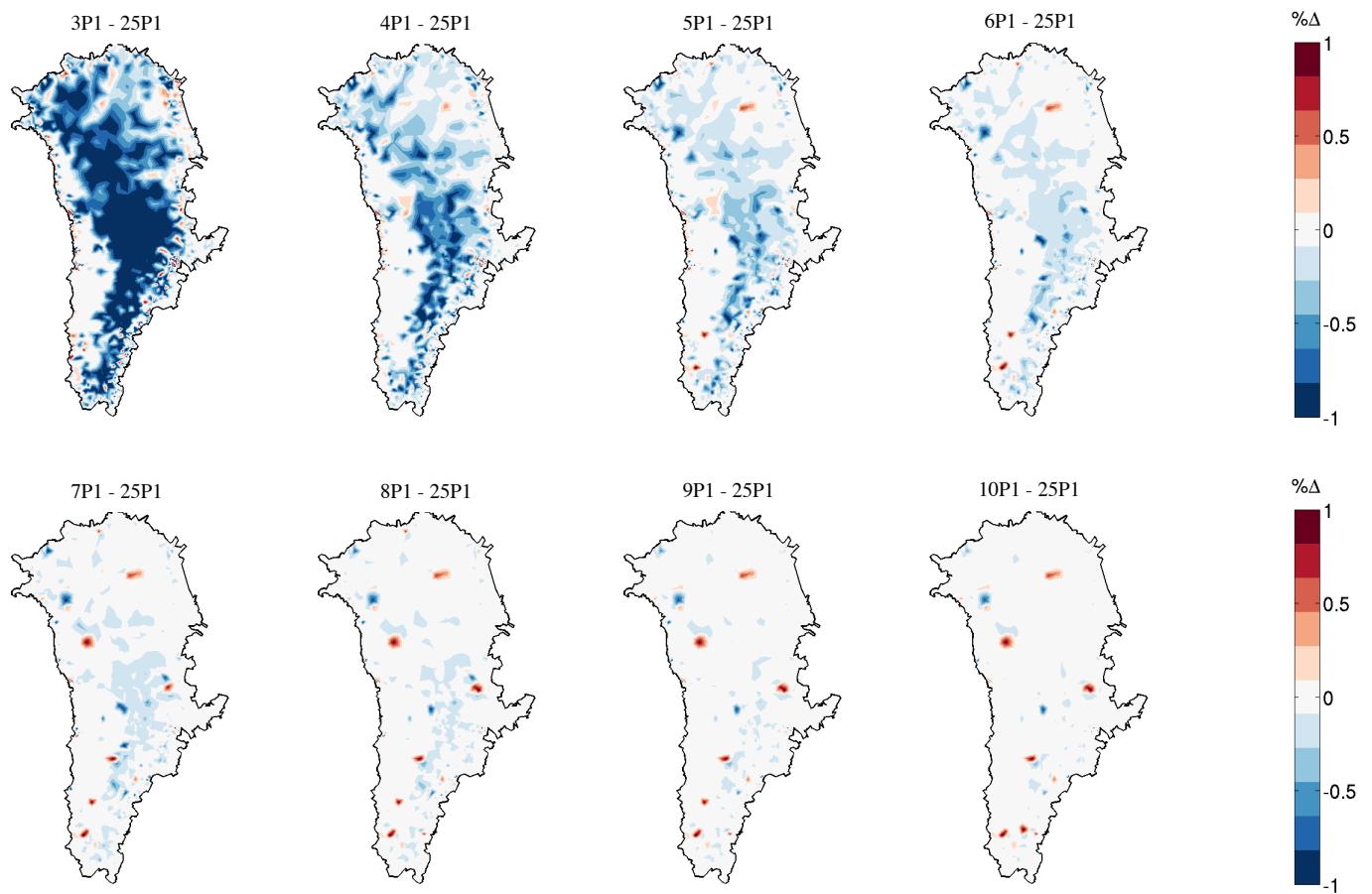
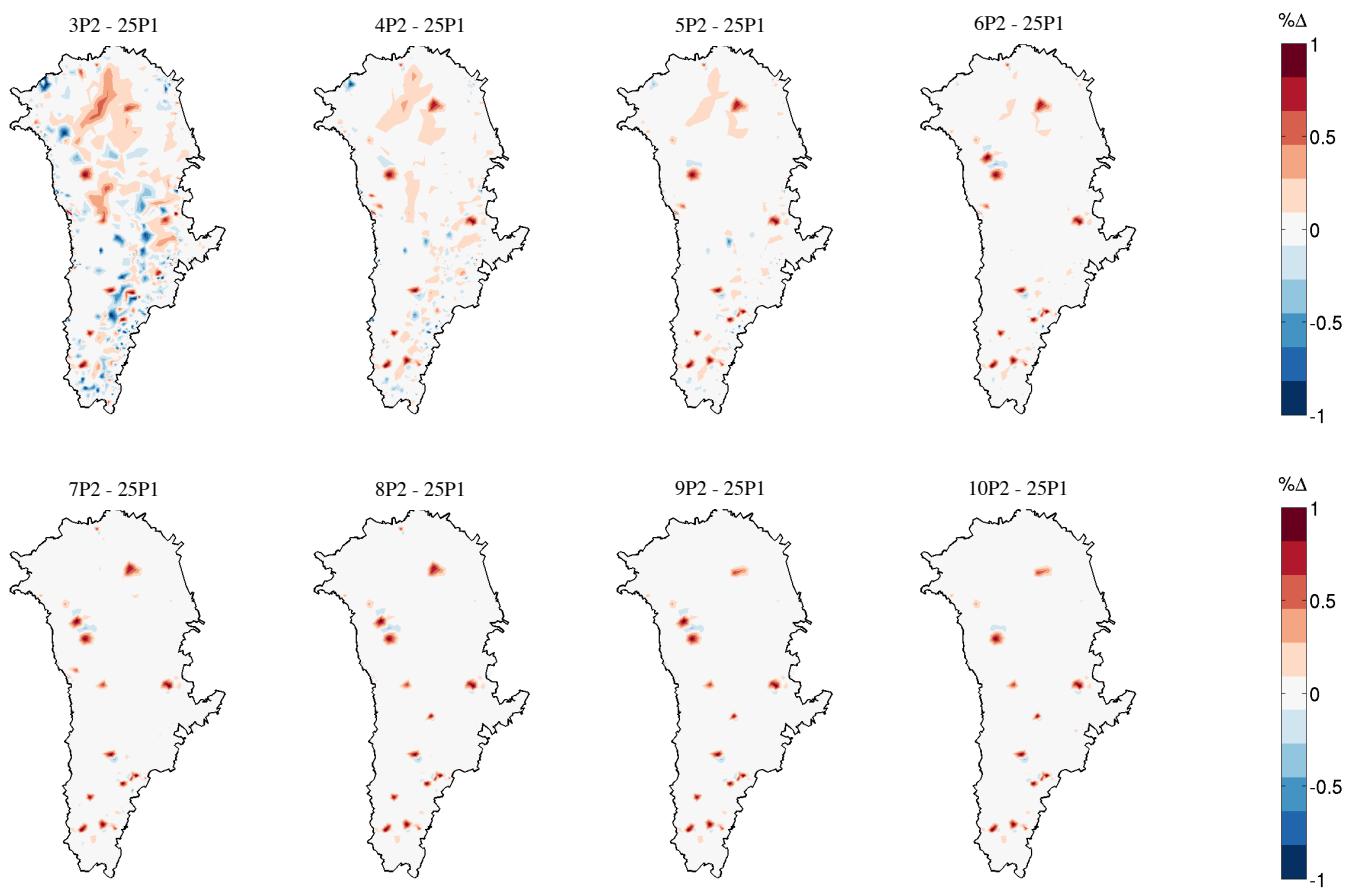


Figure S1. Profiles of ice thickness for models with 3, 5, and 7 layers compared to the 25 layer P1 model simulation at the end of the 100,000 year relaxation for the ice dome experiment.

(a)



(b)



(c)

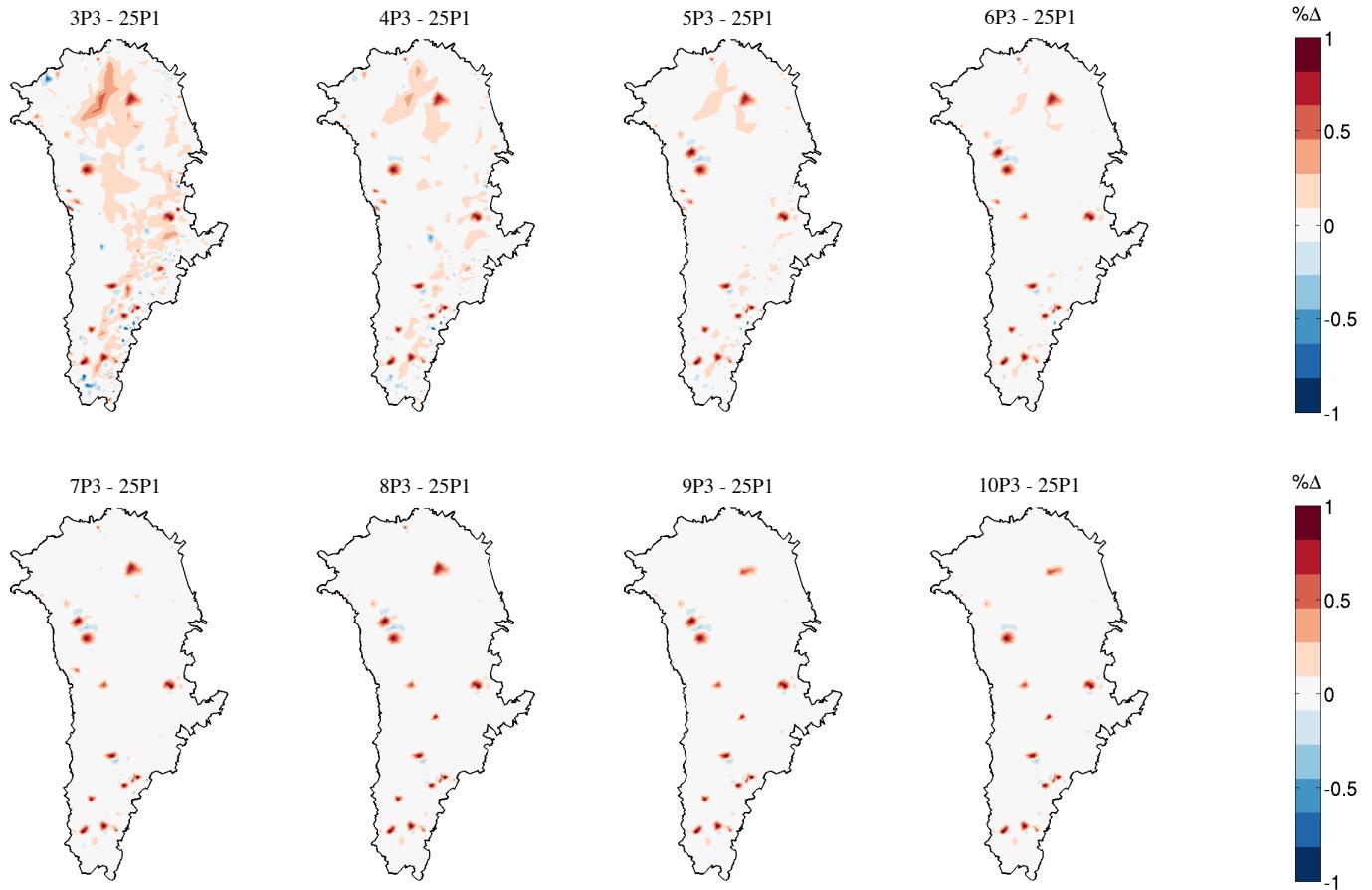


Figure S2. The percent difference between the higher order steady state basal temperatures for models with the P1 (a), P2 (b), and P3 (c) vertical interpolation compared to the 25 layer P1 simulation.