



Supplement of

Modelling feedbacks between the Northern Hemisphere ice sheets and climate during the last glacial cycle

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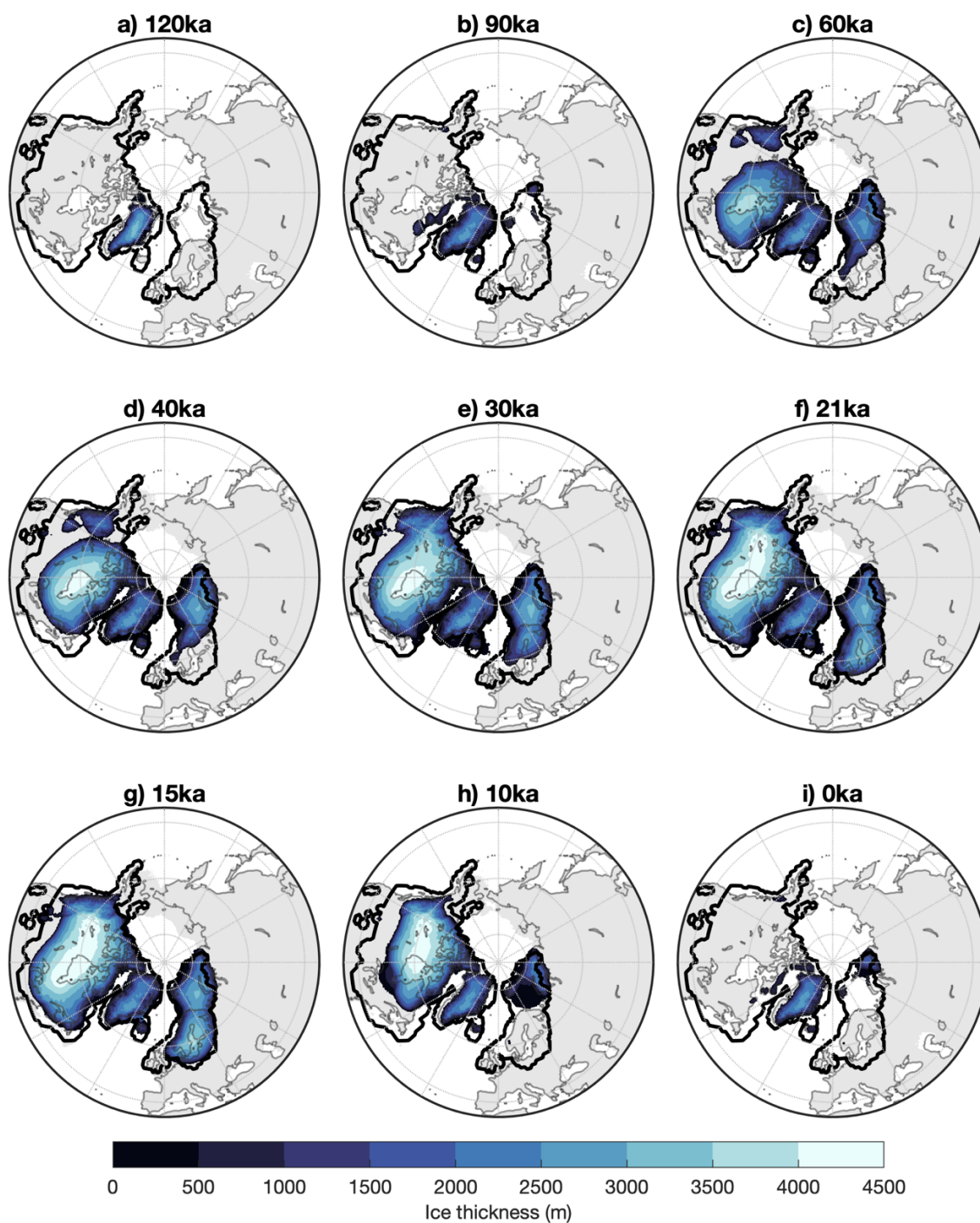
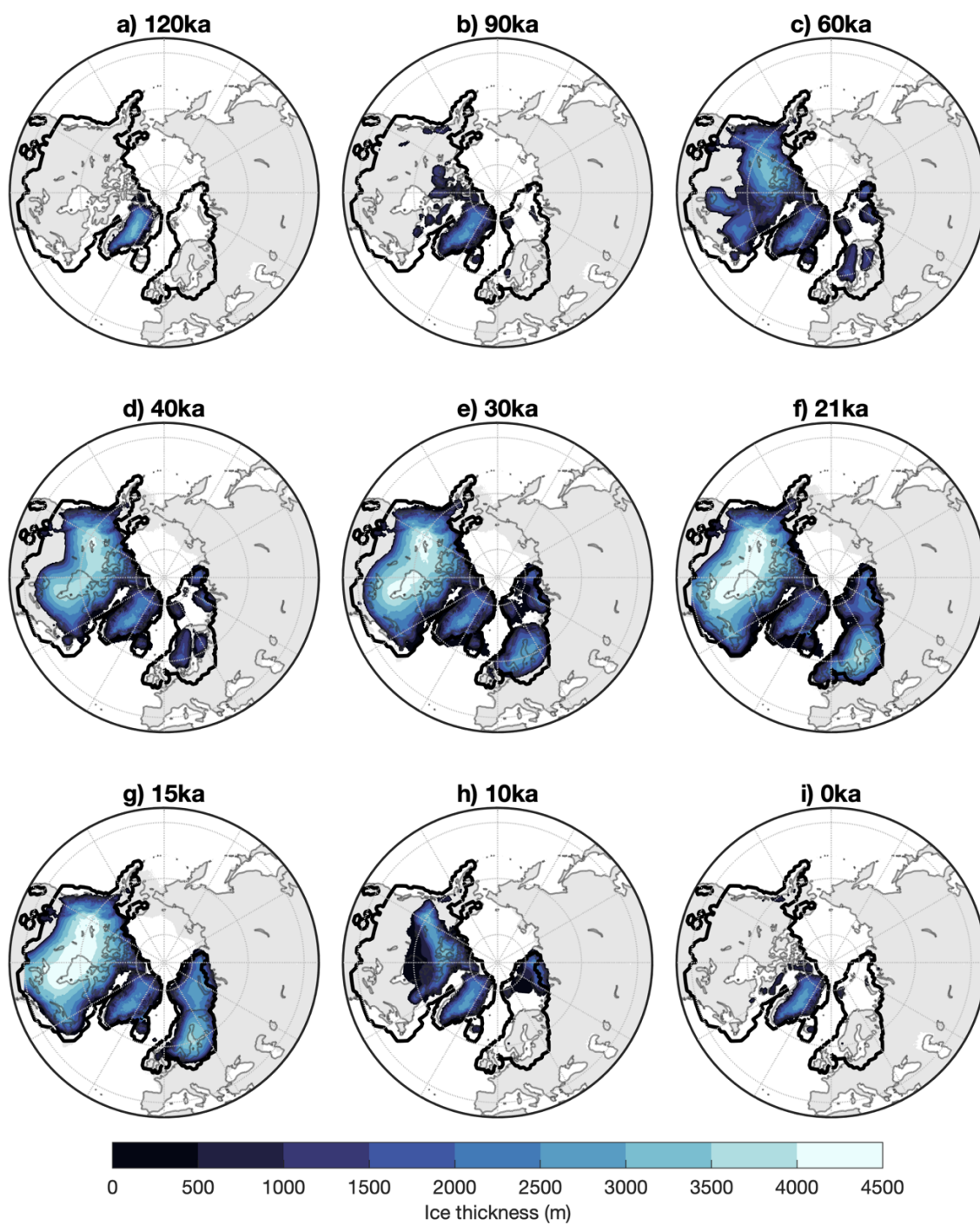


Figure S1. Ice thickness evolution when using the climate matrix method with PMIP3-Ensemble climate. The black contours represent the margin of the Last Glacial Maximum (LGM) reconstruction by Abe-Ouchi et al. (2015).



5 **Figure S2.** Evolution of ice thickness when using the glacial index method with PMIP3-Ensemble climate. The black contours represent the margins of the LGM ice sheet reconstruction by Abe-Ouchi et al. (2015).

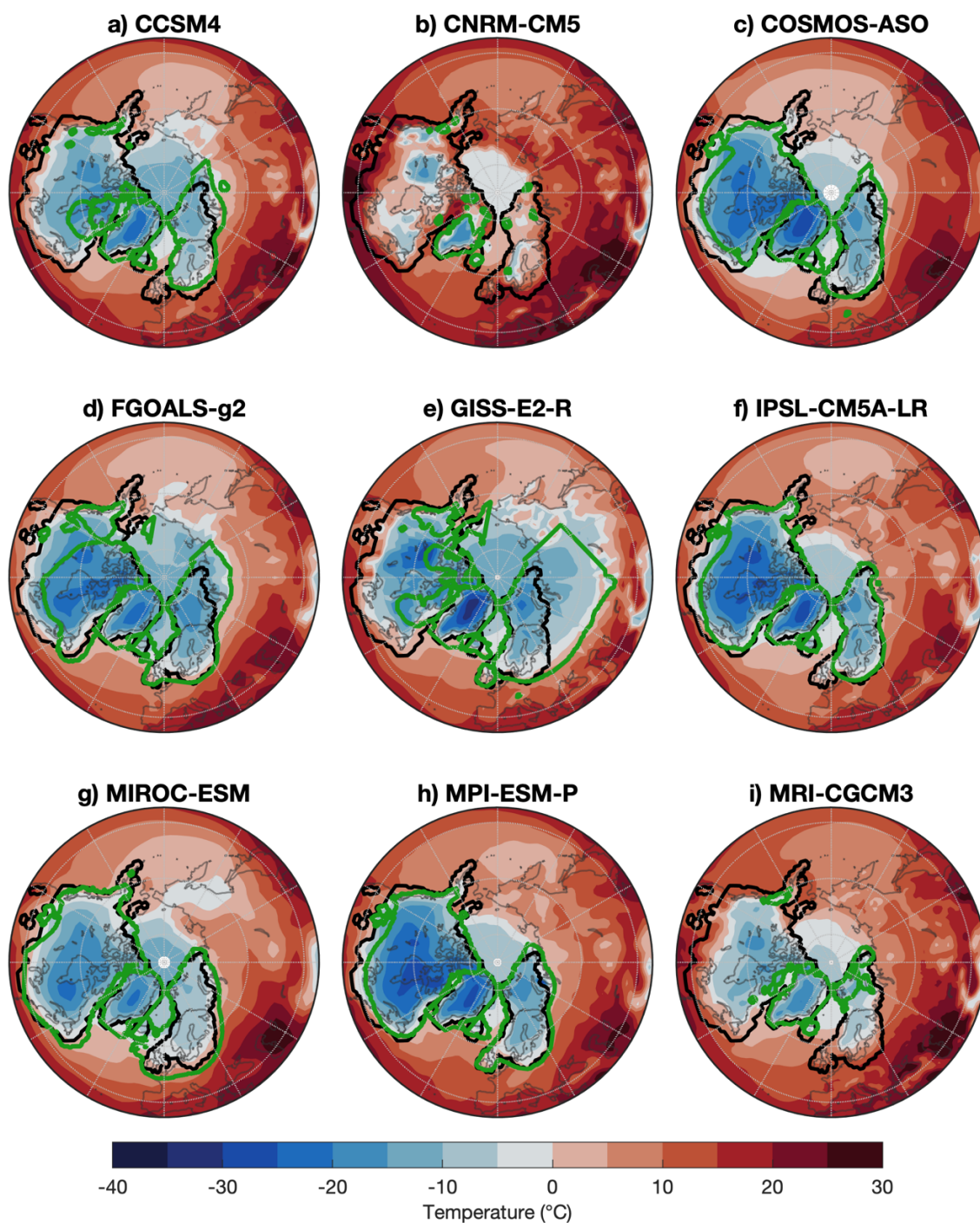


Figure S3: Last glacial maximum (LGM) summer (June, July, August) temperature for each general circulation model in the paleoclimate modelling intercomparison project phase 3. Black contours represent the Abe-Ouchi et al. (2015) LGM ice sheet reconstruction. The green contours show the extent of the LGM ice sheets in the preliminary simulations.