Supporting Information for 'Impact of paleoclimate on present and future evolution of the Greenland Ice Sheet'

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Fig. S1: Comparison between our AWI-ESM model simulations and ob-servations (ERA-Interim (1) and ERA5 (2)), in terms of summer 2-m surface air temperature (top) and annual mean precipitation (bottom).



Fig. S2: The AWI-ESM simulated summer (JJA) 700 hPa air temperature in different periods. Plot as the anomaly in comparison with Pre-Industrial conditions. The contemporary coastline is highlighted in black line.



Fig. S3: The simulated evolution of surface elevation of the GrIS from the Last Glacial Maximum (21 ka) to the Pre-Industrial era. Shading presents the elevation change in 1000 year intervals. The grey contours give the surface elevation with 300 m intervals. The thick black line marks the coastline in the corresponding time. The results are based on one (the default one, see Table 1) of the ensemble simulations.



Fig. S4: The simulated ice thickness evolution of the GrIS from the Last Glacial Maximum (21 ka) to the Pre-Industrial era. The thick black line marks the coastline in the corresponding time.

References

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