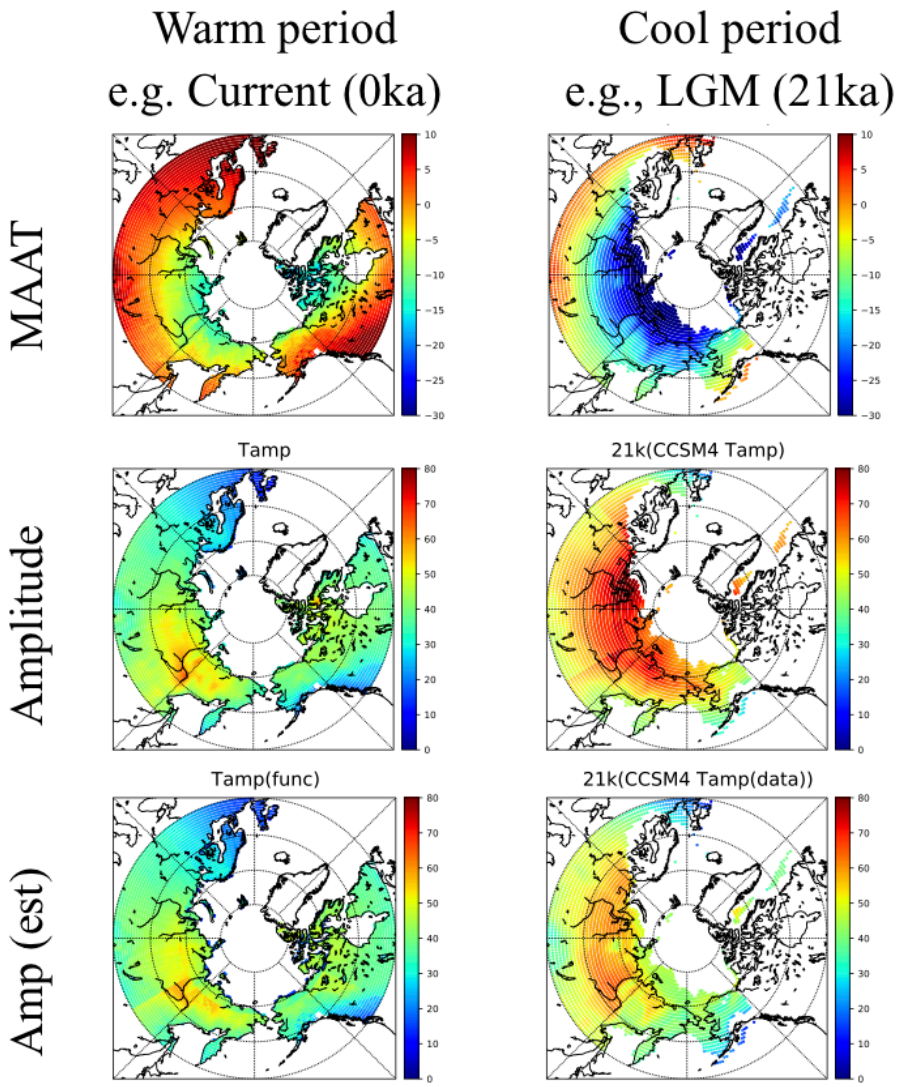
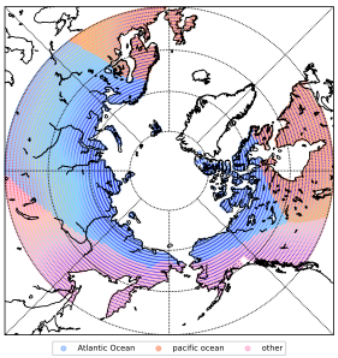
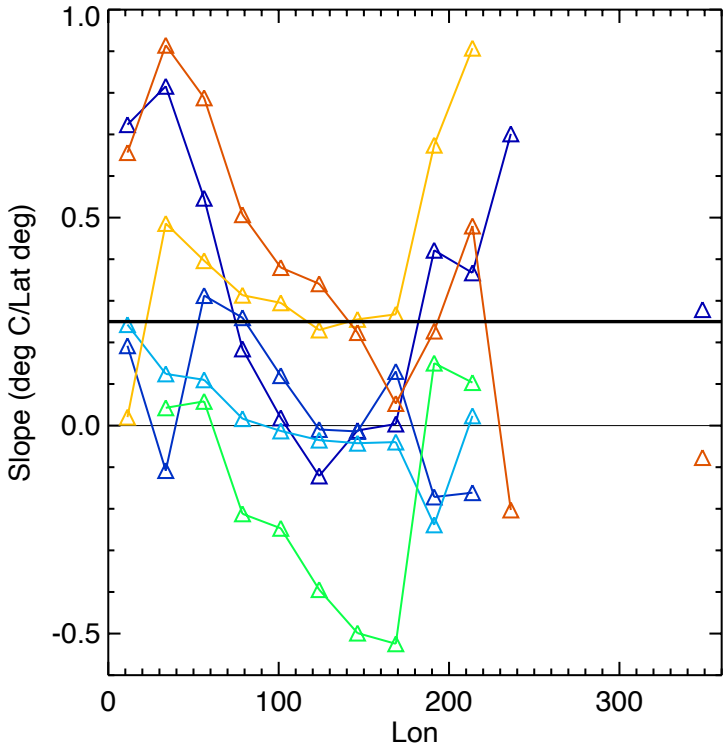
(a)



(b)



Supplementary Figure 1: a) Climatology of the mean annual air temperature (MAAT. top) and annual amplitude (middle) calculated from the climate data, and the results of the derived function for the annual amplitude (bottom) for respective warm (left column) and cool (right column) period. The warm period climatology was computed from the ERA-Interim reanalysis data, while the cool period climatology was computed from the LGM simulation by CCSM4. CCSM4 was taken because it had the highest horizontal resolution. b) Sections of the present-day land to compute the distance to the closest oceans.



Supplementary Figure 2: Meridional gradient $[\partial(\delta T_a)/\partial\, lat]$ of 6 PMIP3 models. δT_a denotes difference in the surface air temperature climatology between the LGM (21ka) and mid-Holocene (6ka) simulations.