



Supplement of

Asymmetric changes in temperature in the Arctic during the Holocene based on a transient run with the Community Earth System Model (CESM)

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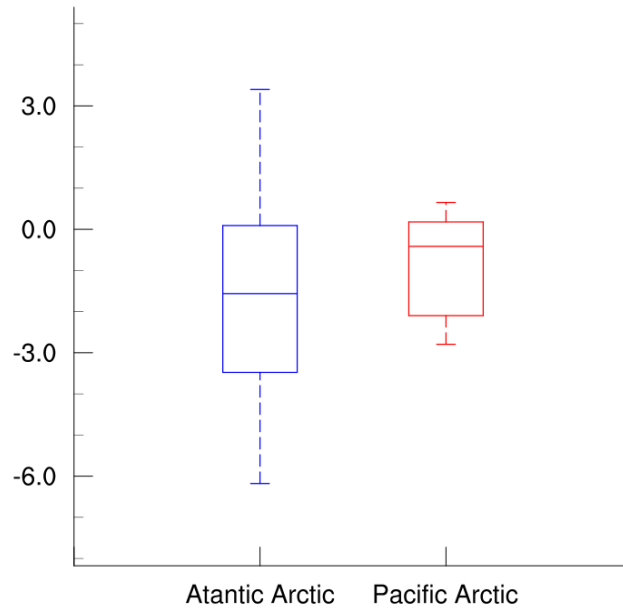


Figure S1. The box diagram of annual temperature changes in Atlantic Arctic and Pacific Arctic between two period (0-2 ka BP and 5-8 ka BP) in Reconstructions (Temperature 12k);

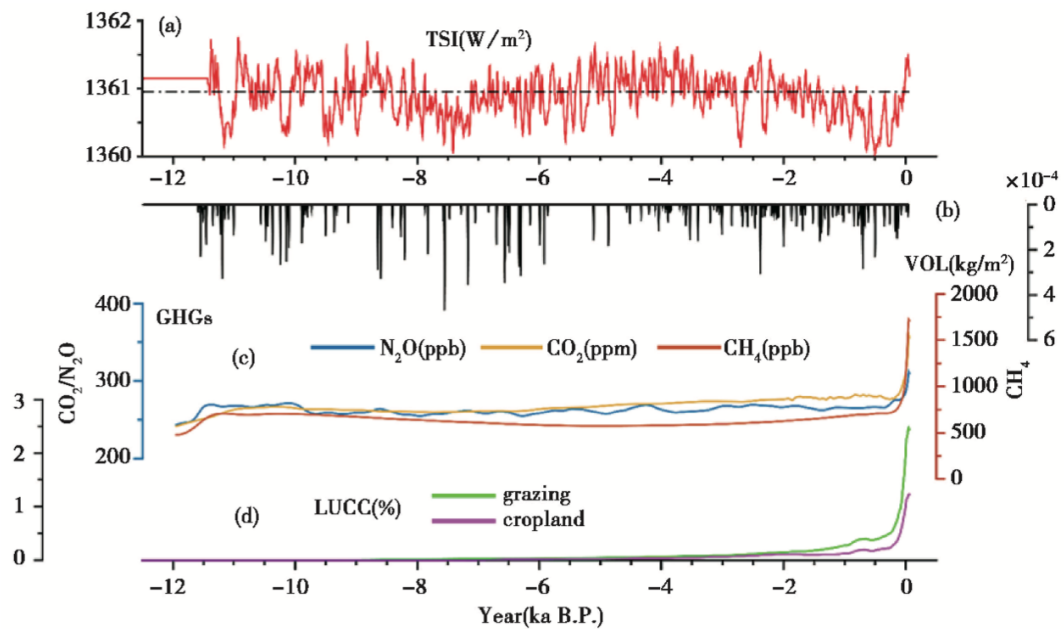


Figure S2. The external forcing timeseries used in the NNU-Hol simulation. The TSI VOL, GHG and LUCC are a b c and d respectively (Wan et al.2020)

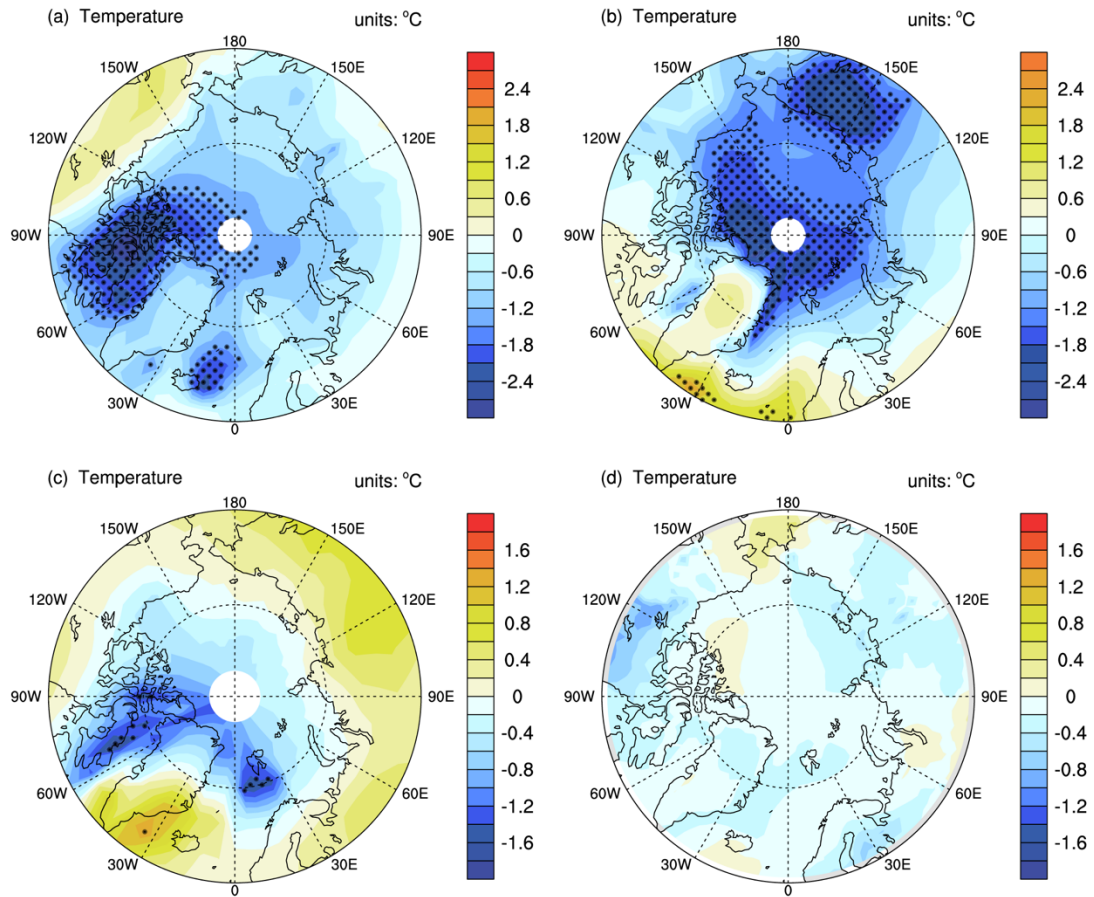


Figure S3. (a) The annual temperature changes between two period (0-2 ka BP and 5-8 ka BP) in NNU-Holocene All forcing simulations (Pacific Arctic:-0.62, Atlantic Arctic:-1.04; significant at the 90% confidence level); (b) Same as (a) but for TraCE-21ka simulation (Pacific Arctic:-0.94, Atlantic Arctic:-0.06; significant at the 90% confidence level) (c) Same as (a) but for ECBilt-CLIO simulation (Pacific Arctic:-0.02, Atlantic Arctic:-0.26; significant at the 90% confidence level); (d) The annual temperature changes between two period (0-2 ka BP and 4-6 ka BP) in IPSL ESM simulation (Pacific Arctic:-0.14 Atlantic Arctic:-0.18; not significant) Areas that are dotted are significant at the 90% confidence level.