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*Supplement of*

## **Effects of melting ice sheets and orbital forcing on the early Holocene warming in the extratropical Northern Hemisphere**

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# 11.5–0 kyr insolation anomaly

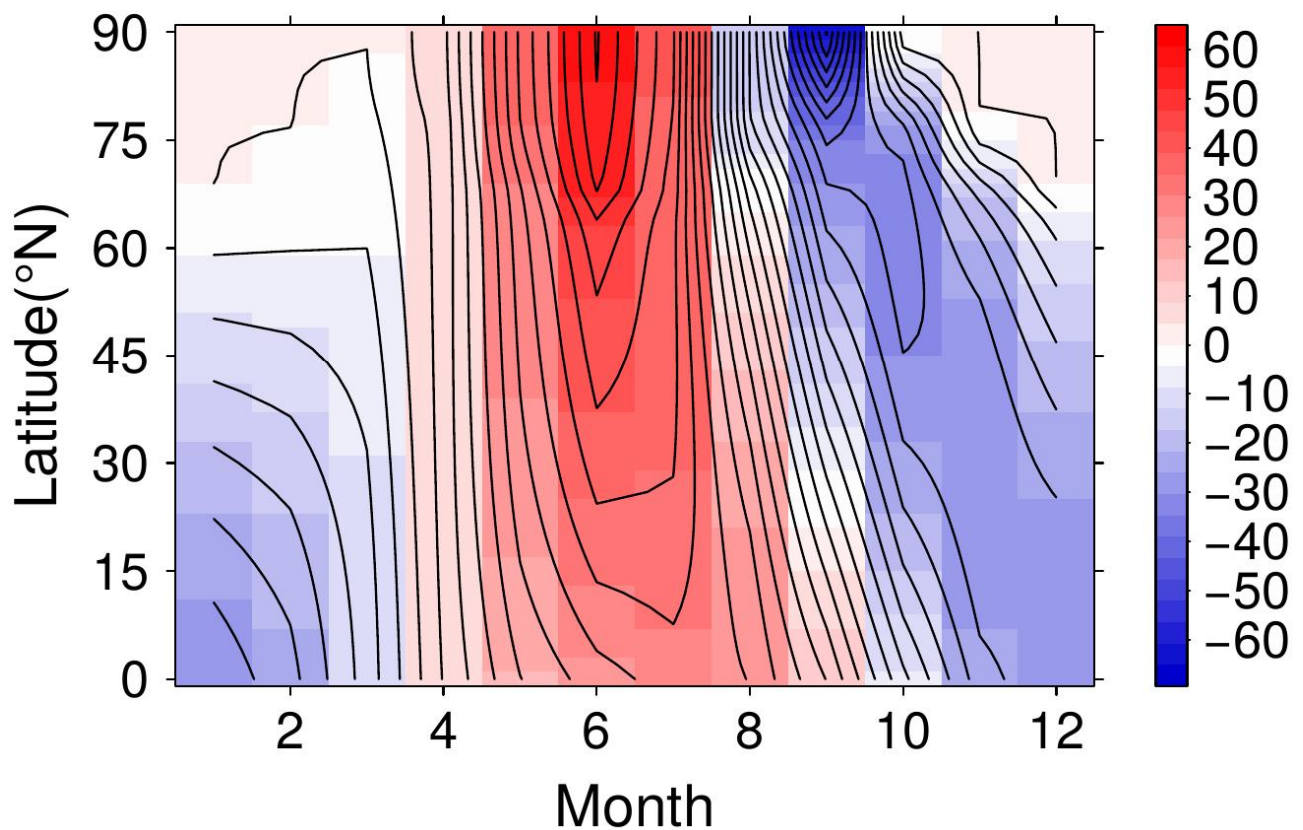


Fig. S11. Monthly insolation anomaly ( $\text{W m}^{-2}$ ) at 11.5 kyr compared to 0kyr derived from Berger 1978

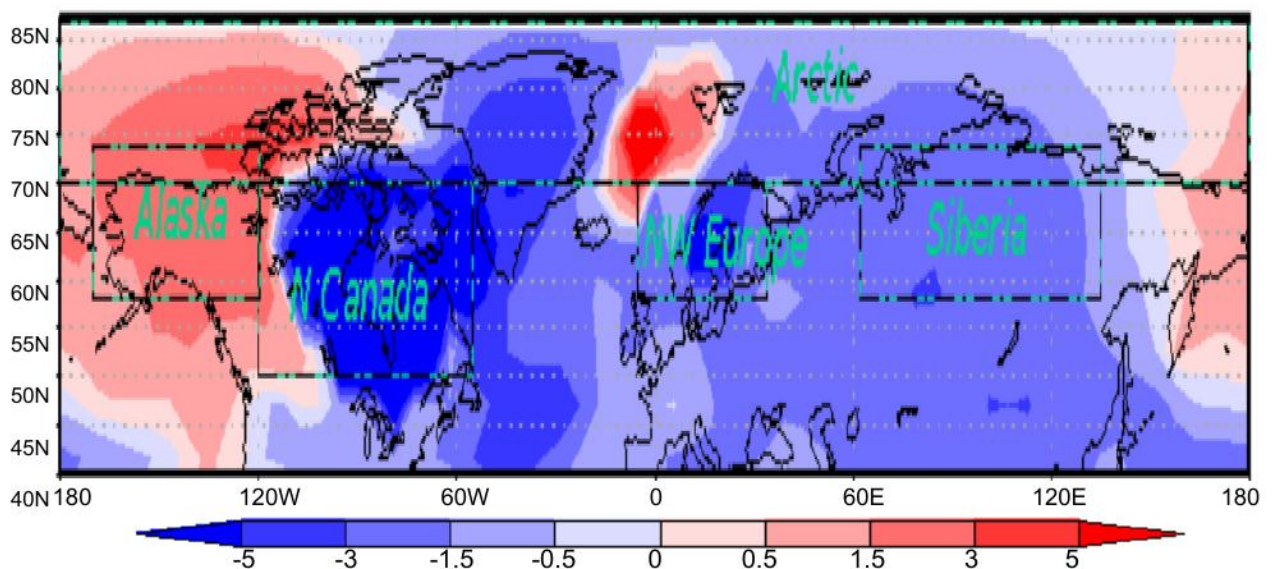


Fig. S12. Selected region denoted by the box over where the temperature evolution is shown. Shown in the background is the simulated annual mean temperature at the onset of the Holocene.

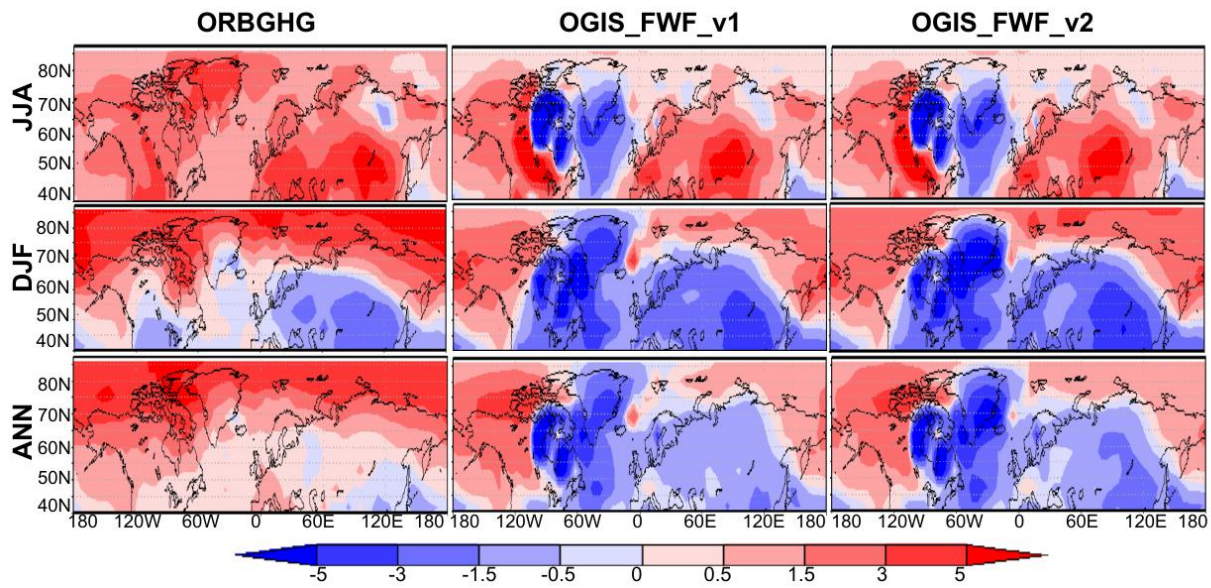


Fig. SI3. Simulated temperatures for 10 kyr (shown as the deviation of 100-yr average from PI). Left, middle and right columns show the simulations ORBGHG, OGIS\_FWF-v1 and OGIS\_FWF-v2, respectively. Upper, middle and lower panel indicate summer, winter and annual temperatures, respectively

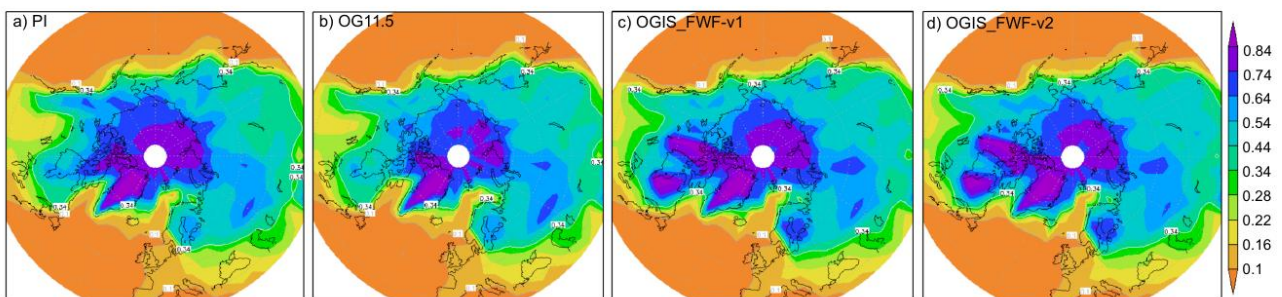


Fig. SI4. Simulated winter surface albedo shown as a 100-yr average in the extratropical Northern Hemisphere. (a) is for the PI, while (b), (c) and (d) represent the simulations ORBGHG, OGIS\_FWF-v1 and OGIS\_FWF-v2 at 10 kyr, respectively.