

Supporting Information for "Impact of dust and temperature on primary productivity in late Miocene oceans"

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Contents of the supporting material :

Figures S1 to S6.

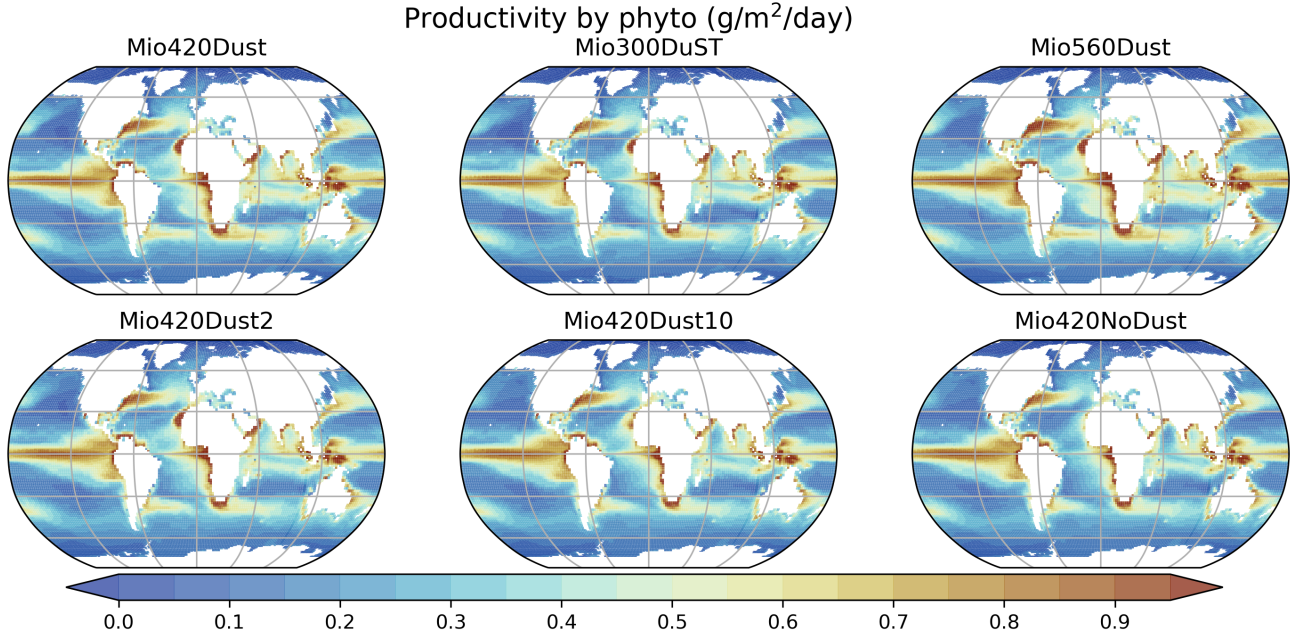


Figure S1. Ocean primary productivity by phytoplankton integrated through the water column and averaged over the year ($\text{g/m}^2/\text{day}$).

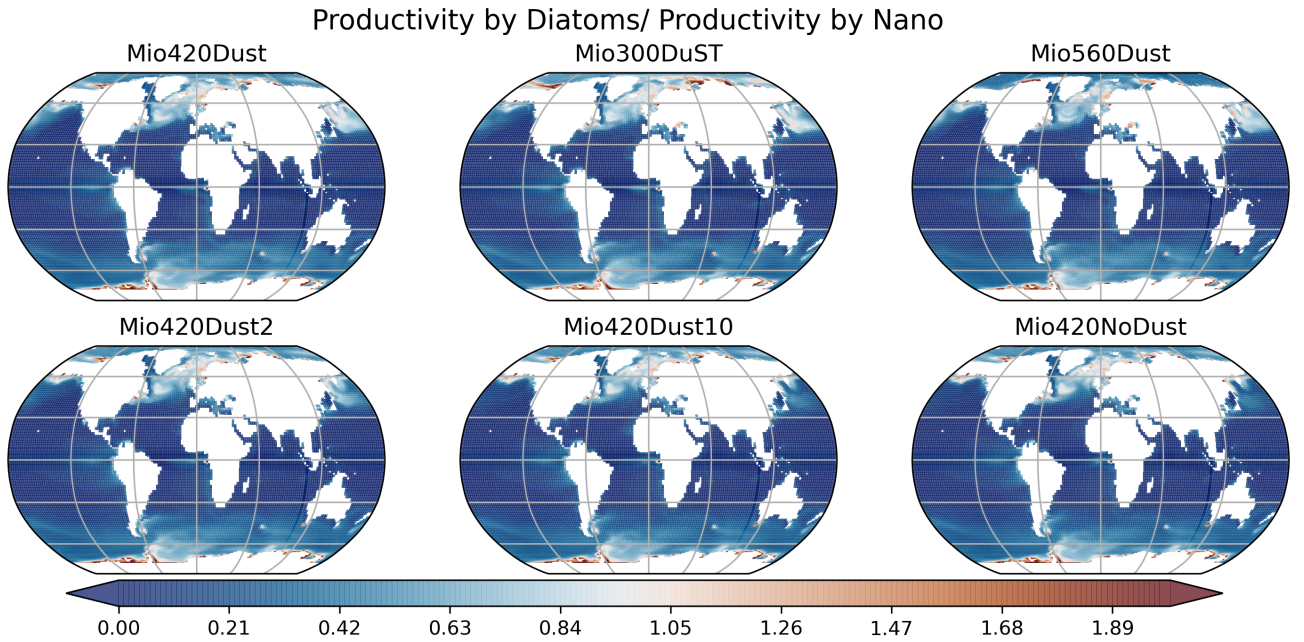


Figure S2. Ratio between primary productivity produced by diatoms and primary productivity produced by nanophytoplankton for the Mio420Dust simulation at the surface (if >1 , diatom dominance, if <1 , nanophytoplankton dominance).

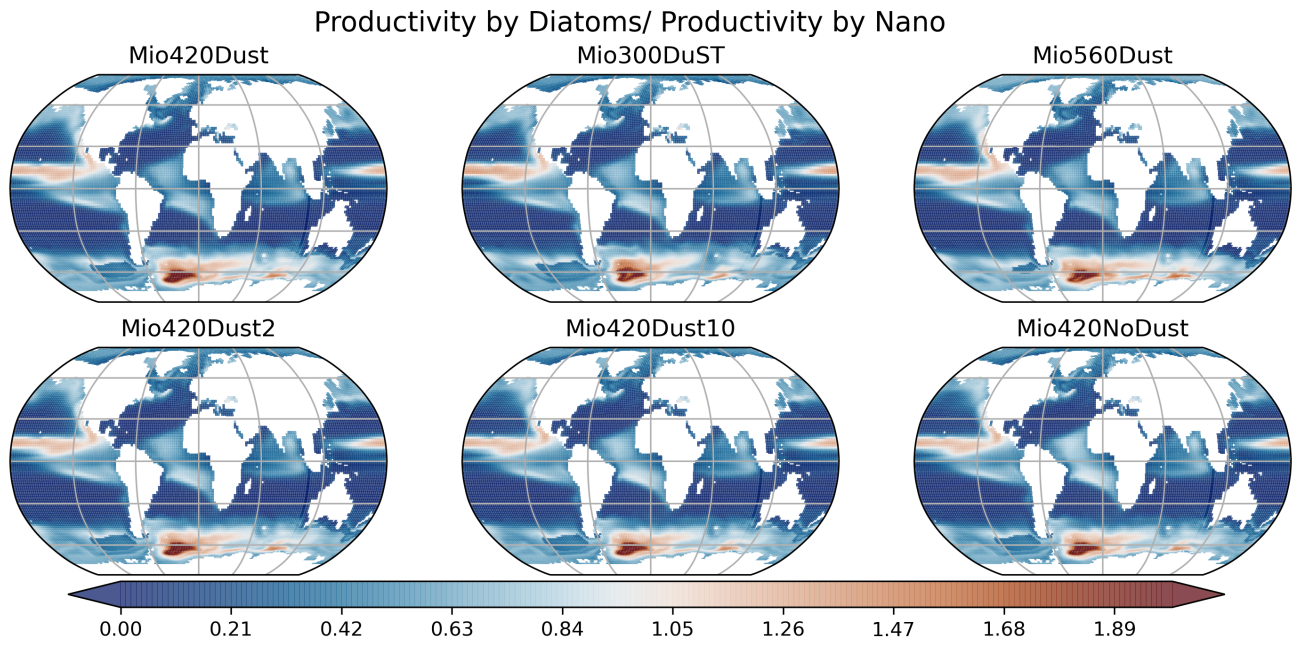


Figure S3. Ratio between primary productivity produced by diatoms and primary productivity produced by nanophytoplankton for the Mio420Dust simulation at 150m depth (if >1 , diatom dominance, if <1 , nanophytoplankton dominance).

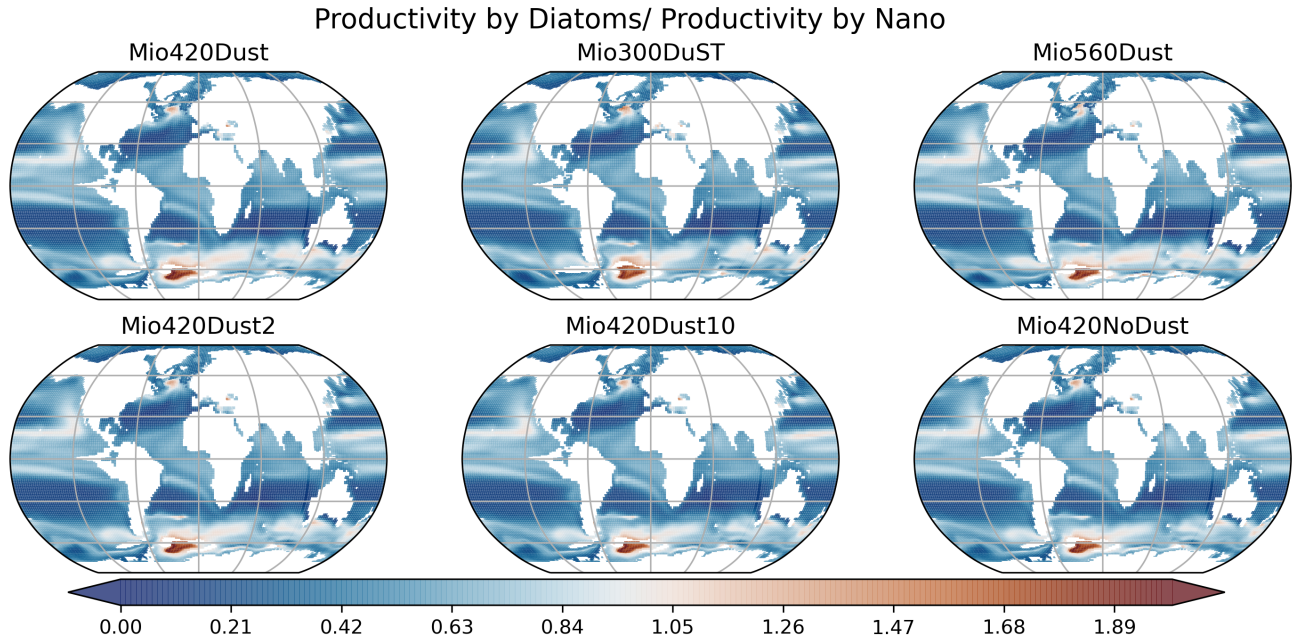


Figure S4. Ratio between primary productivity produced by diatoms and primary productivity produced by nanophytoplankton for the Mio420Dust simulation at 270m depth (if >1 , diatom dominance, if <1 , nanophytoplankton dominance).

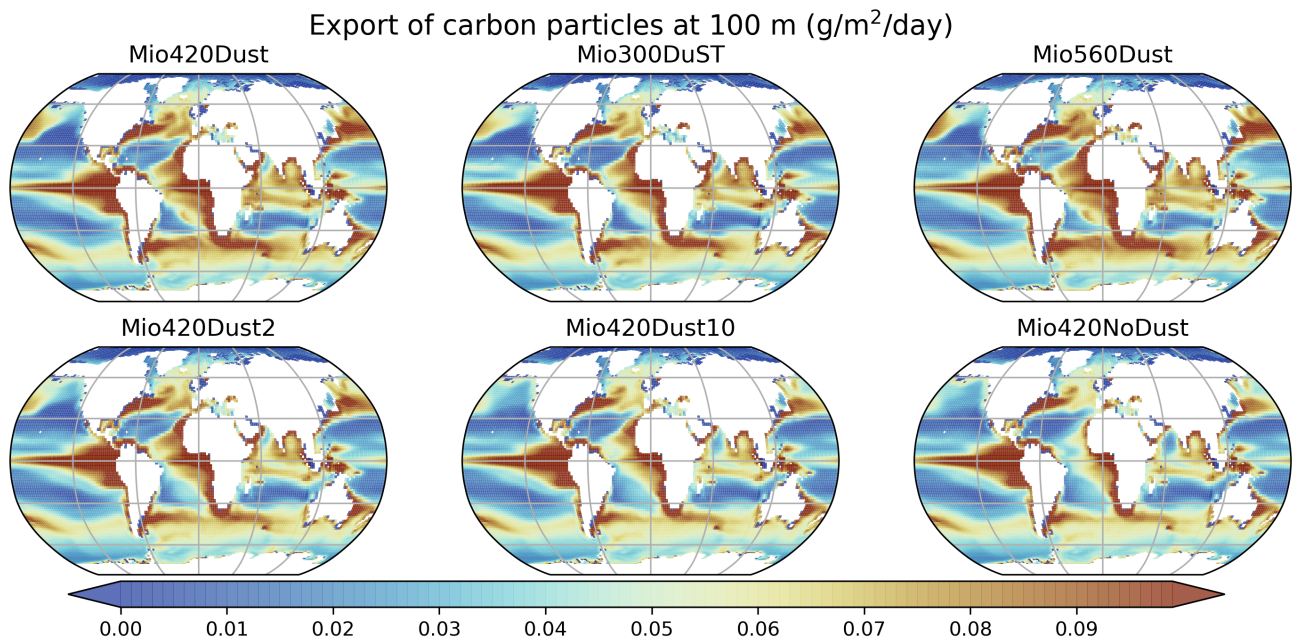


Figure S5. Particulate carbon export at 100m depth ($\text{g/m}^2/\text{day}$) and averaged over the year.

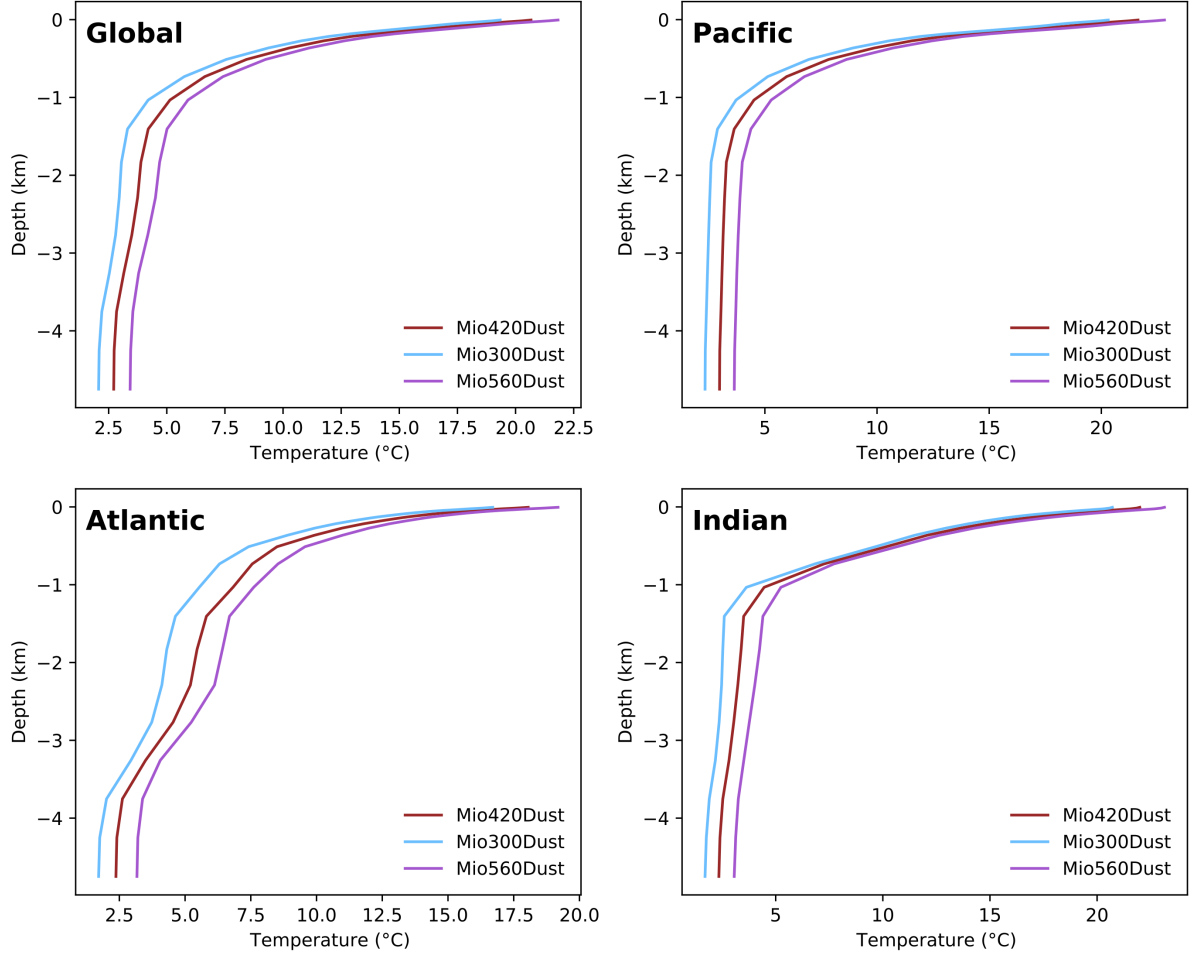


Figure S6. Evolution of annual average temperature (°C) with depth (km) for the Mio420Dust, Mio300Dust and Mio560Dust simulations (averaged over the Pacific, Atlantic and Indian oceans and globally).