

Greenland temperature variations in the last millennium climate simulation

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A series of climate simulations of the last millennium are conducted using the MIROC climate model. These include a simulation under volcanic-only, solar-only, or total forcings. Sensitivity experiments using different strength of volcanic and solar forcings are also conducted. With these dataset, we analyze the factors that influence Greenland temperature variations during the last millennium. Attention is paid to the effect of different external forcings and changes in the atmosphere and ocean circulations such as the North Atlantic Oscillation and the Atlantic meridional overturning circulation.