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Glacial CO_2 decrease and deep-water deoxygenation by iron fertilization from glaciogenic dust

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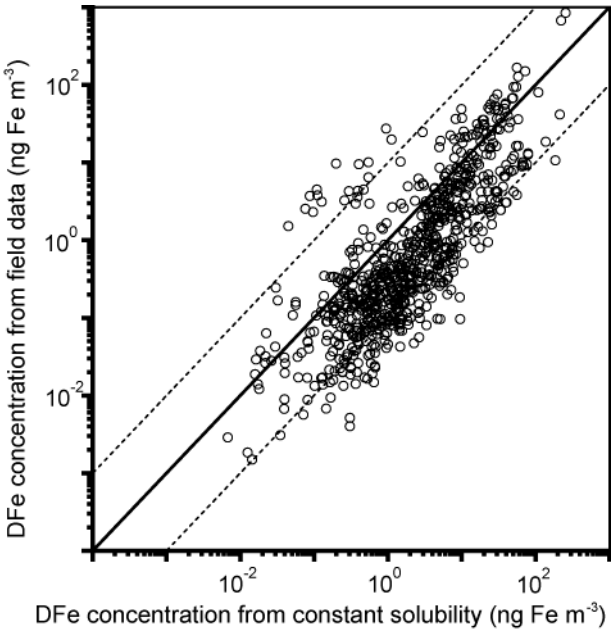

Fig. S1. Comparison of estimates with 1% Fe solubility assumed for aerosol Fe and observed values for DFe concentration (ng m^{-3}), following the atmospheric Fe model inter-comparison studies (Ito et al., 2019 and references therein). The solid line represents a 1-to-1 correspondence. The dashed lines show deviations from the solid line by a factor of ±10.

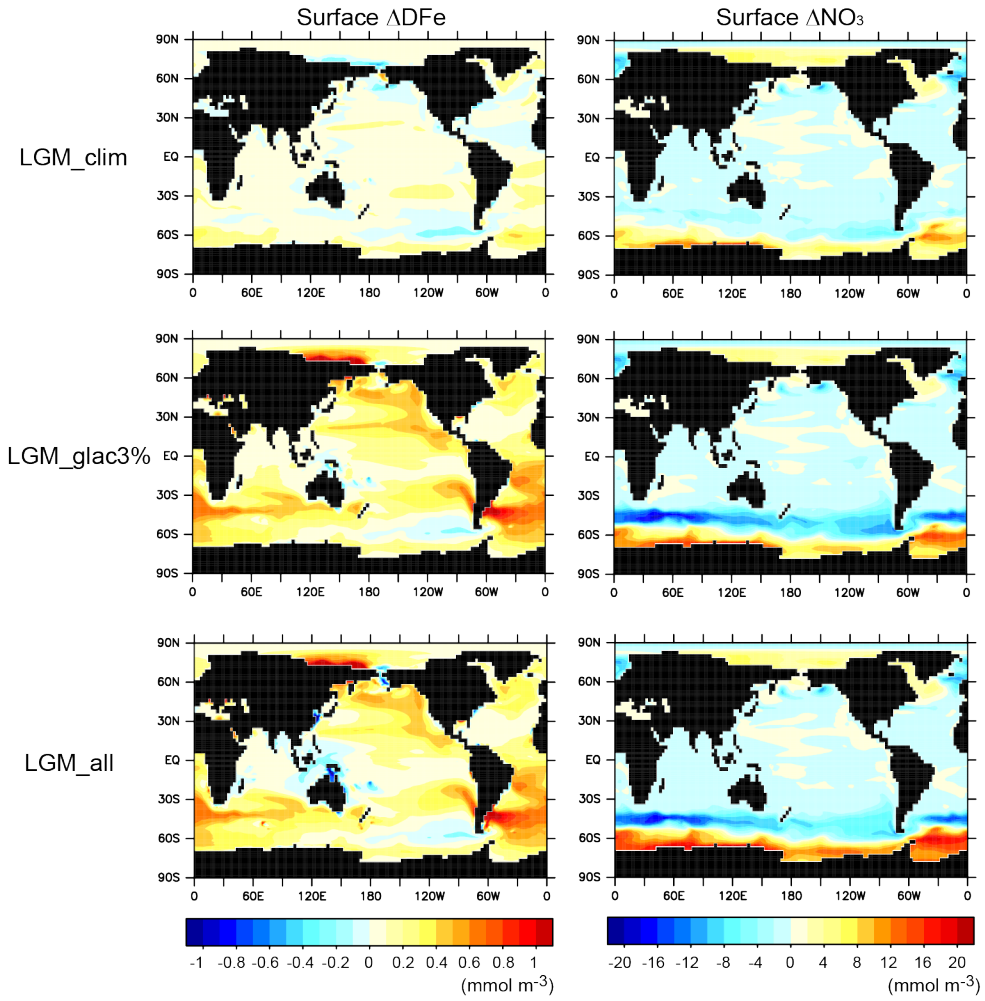

Figure S2. Surface changes of DFe (left) and NO_3 (right) from PI to LGM_clim (top), LGM_glac3% (middle), and LGM_all (bottom).

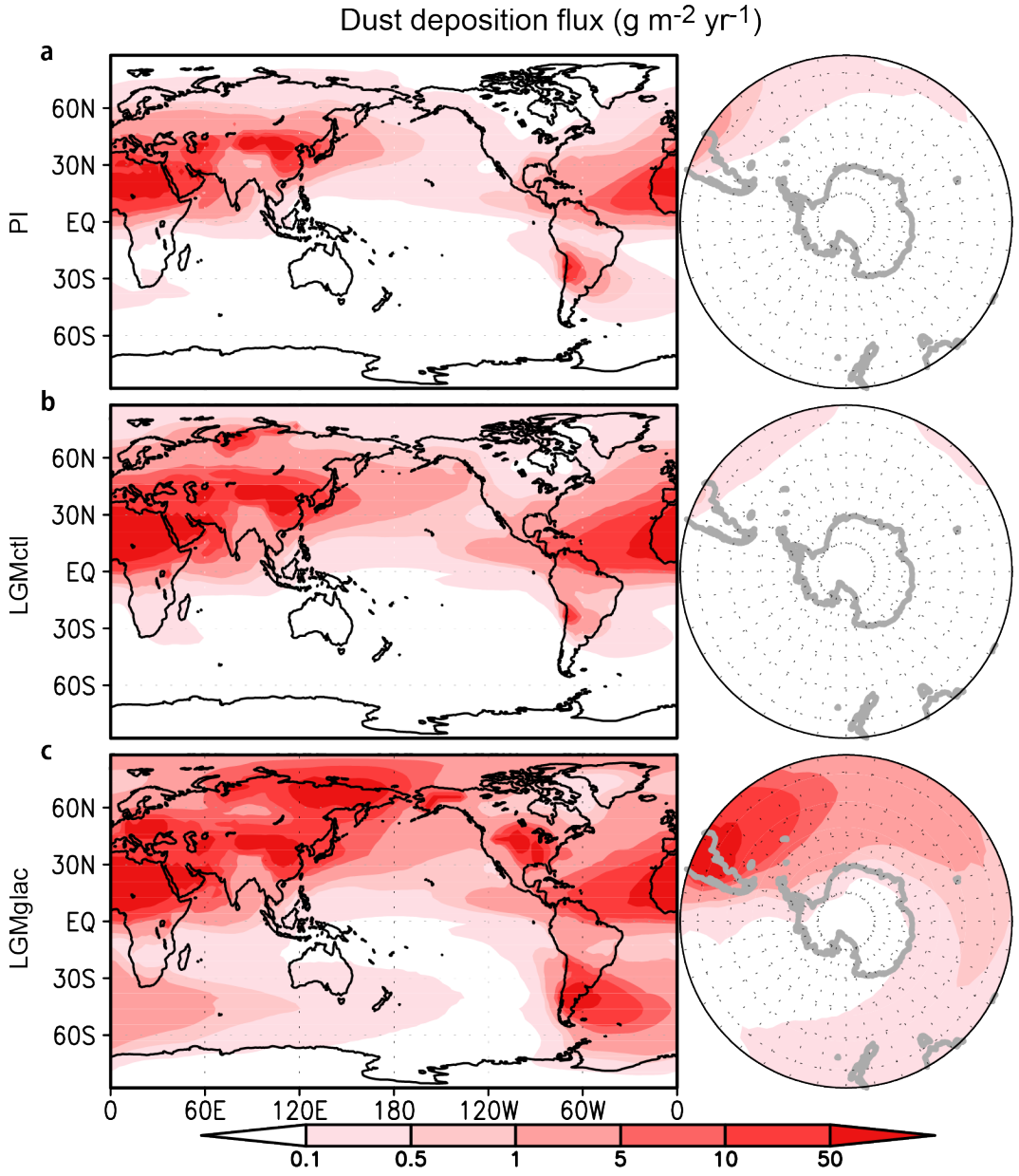

Figure S3. Dust deposition flux (g m^{-2} yr^{-1}) for (a) PI, (b) LGMctl, and (c) LGMglac. The left and right panel show the global and the high latitudes in the Southern Hemisphere, respectively.

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