

Supplement for

**Global mean surface temperature and climate sensitivity of the
EECO, PETM and latest Paleocene**

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Figure S1: Predicted surface warming by Gaussian process regression (i.e. D_{surf-3}) and associated uncertainties. Anomalies are relative to the present-day zonal mean surface temperature. Circles indicate all available SST and LAT proxy data for the respective time slice that were used to train the model. Circles for locations where multiple proxy reconstructions are available are slightly shifted in latitude for improved visibility

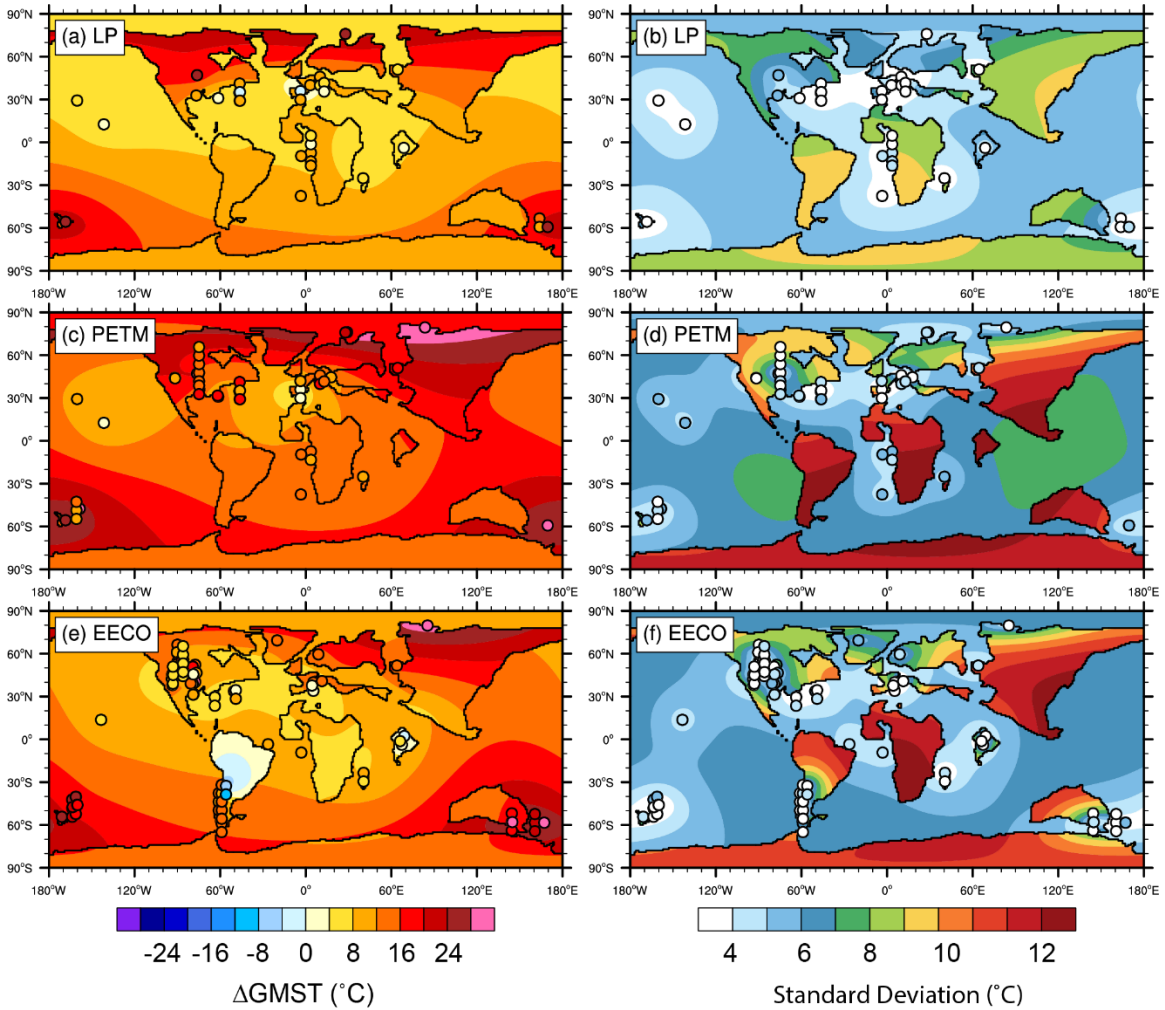


Figure S2: Illustration of D_{surf-4} comparing zonal-mean near-surface air temperature at sea level, averaged over all months between 1981 and 2000, from ERA5 reanalysis (solid) and Eq. 3 (dashed).

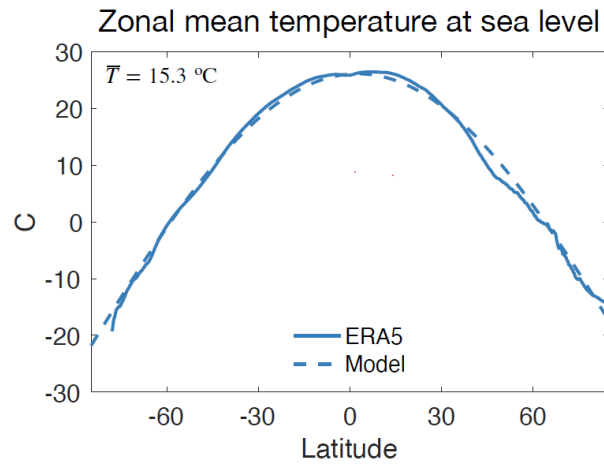


Figure S3: Illustration of D_{surf-4} illustrating the average (red line) and 90% confidence interval (red shading) of zonal-mean temperatures computing from proxy LAT (purple) and SST (green) data from the EECO (left), LP (center), and PETM (right).

