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Supplement of

Pliocene Model Intercomparison Project (PlioMIP2) simulations using the Model for Interdisciplinary Research on Climate (MIROC4m)

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Eoi^{400} - Eplio1 anomaly

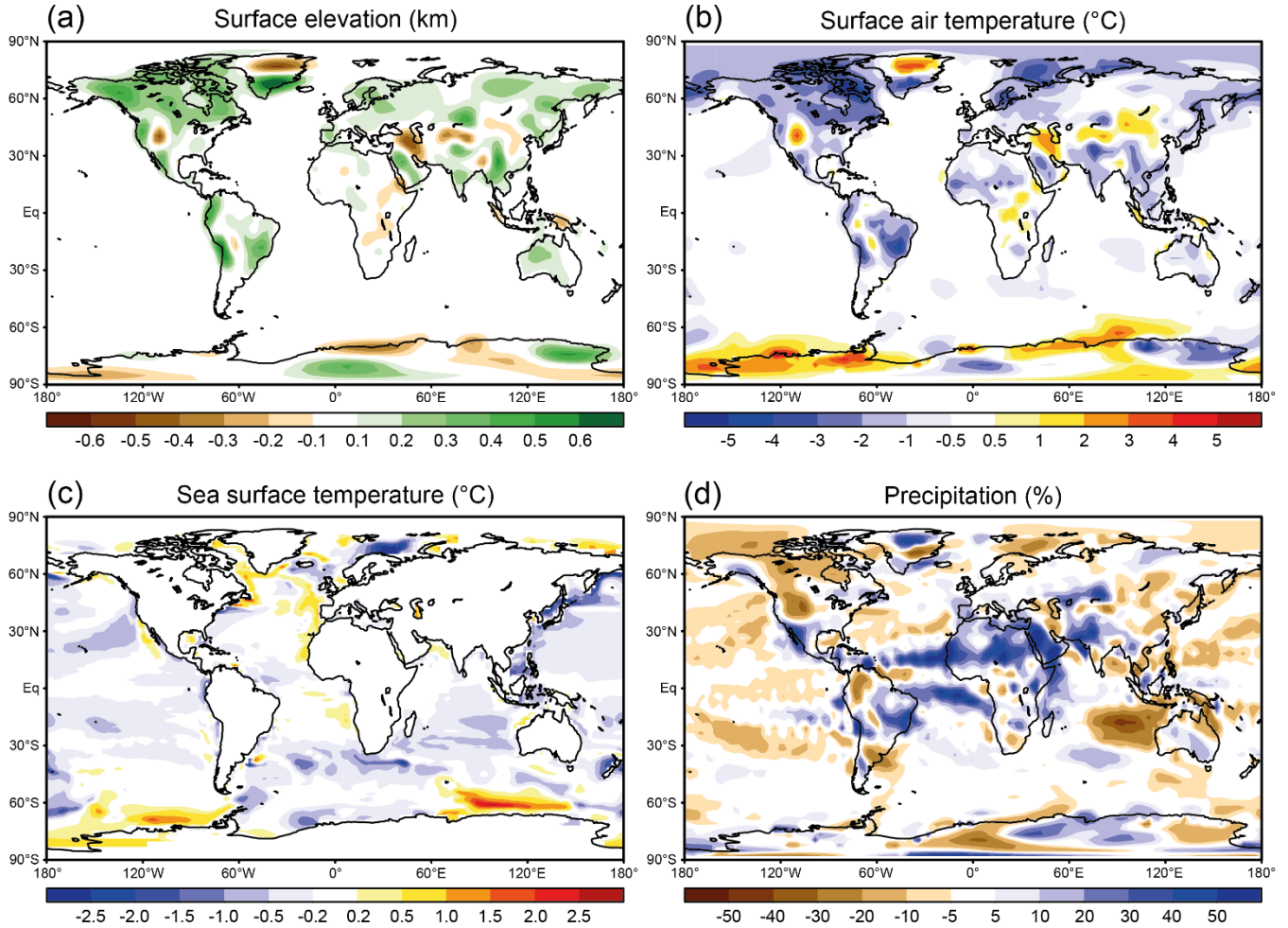
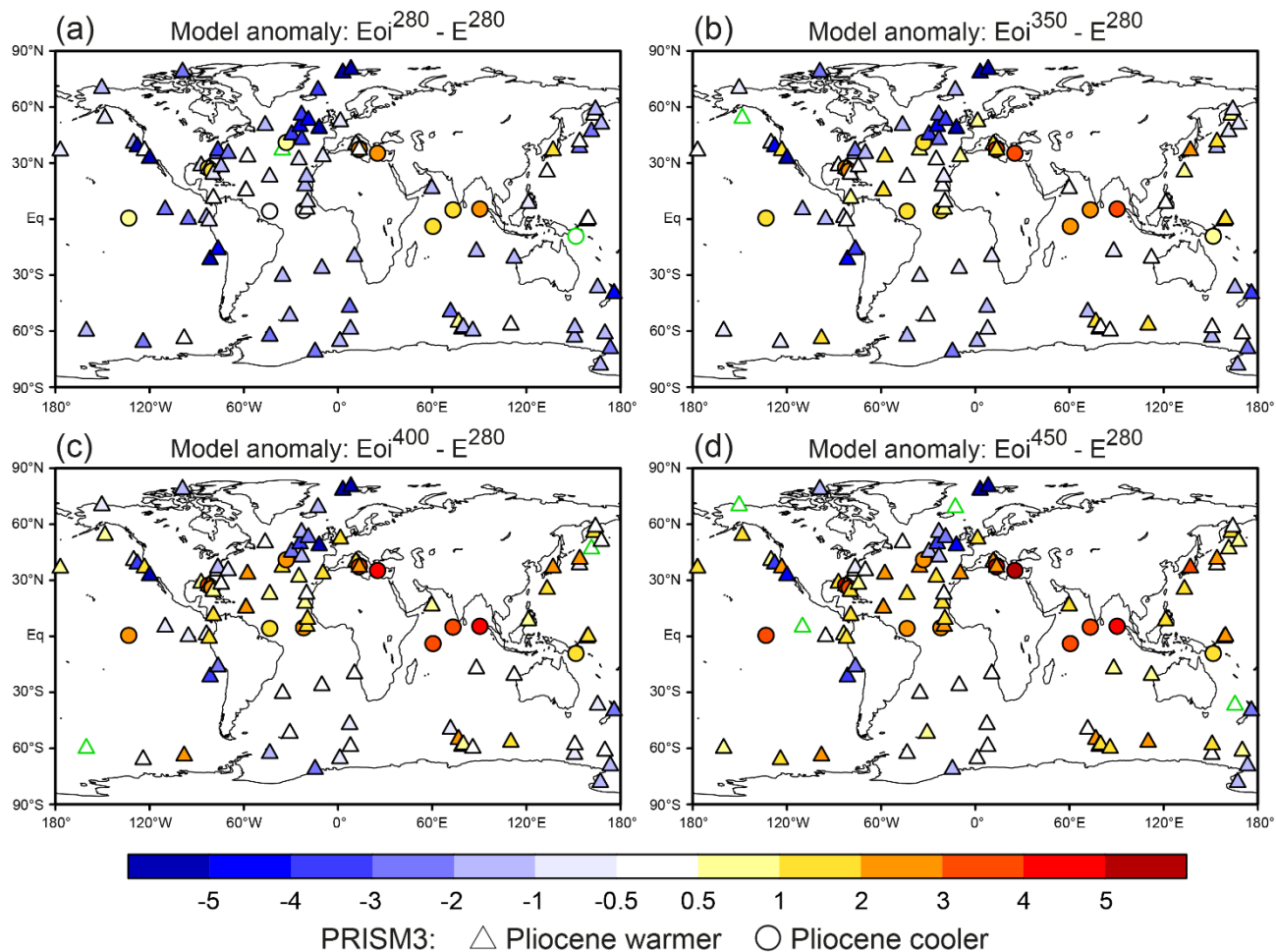


Figure S1: Differences between Eoi^{400} and Eplio1, the core experiments of the two phases of PlioMIP: (a) surface elevation anomaly, derived from the original data interpolated onto the MIROC4m grid, (b) annual mean surface air temperature anomaly, (c) annual mean sea surface temperature anomaly, (d) annual mean precipitation anomaly, as a percentage of Eplio1.

Model SST anomaly minus PRISM3 proxy SST anomaly ($^{\circ}\text{C}$)



15 **Figure S2:** As in Figure 16(a), but for the PlioMIP2 experiments with various CO_2 levels. 95% confidence levels are shown by green symbols.

Model SST anomaly minus PRISM4 proxy SST anomaly ($^{\circ}\text{C}$)

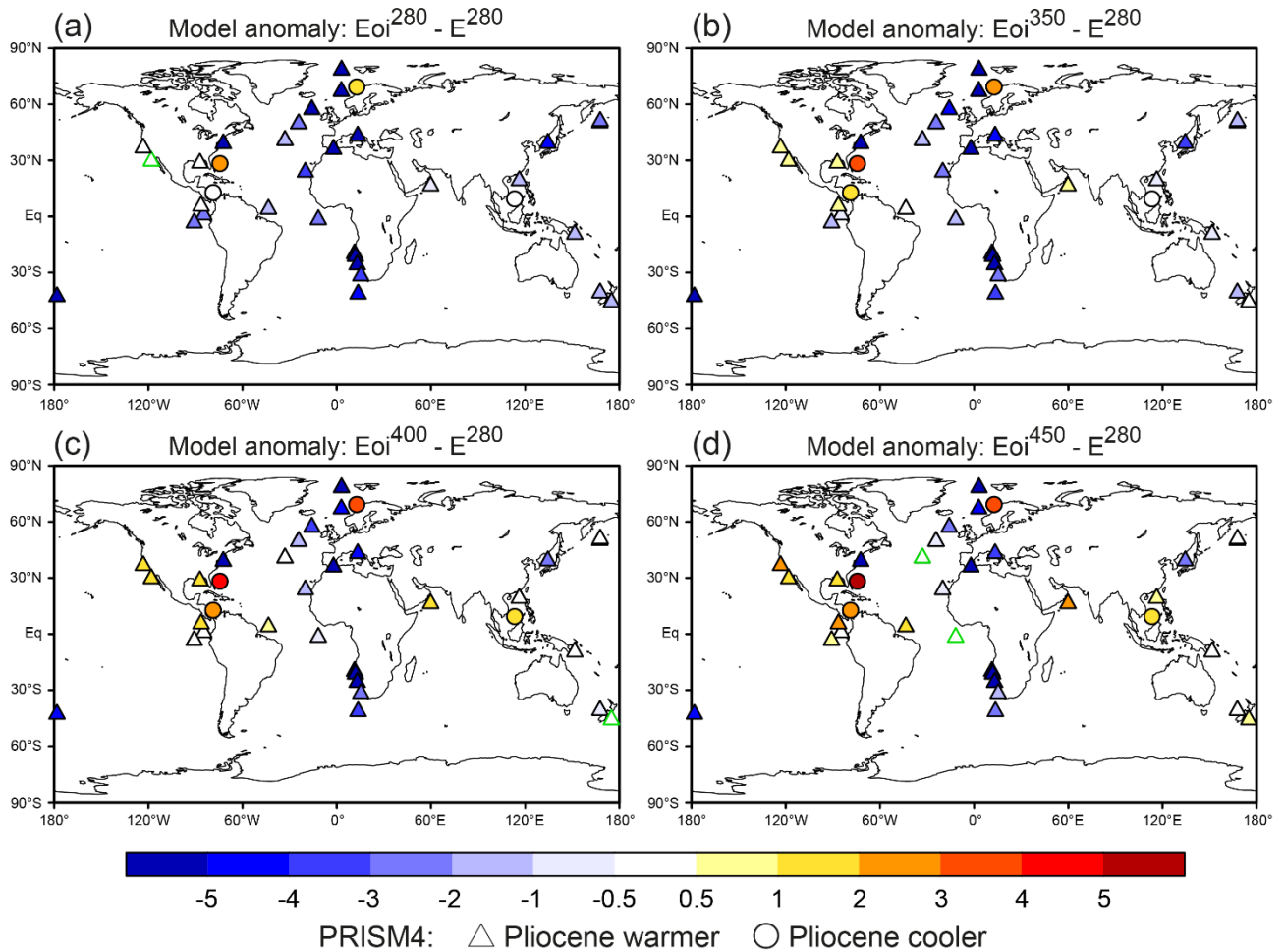


Figure S3: As in Figure 17(a), but for the PlioMIP2 experiments with various CO_2 levels. 95% confidence levels are shown by green symbols.