

Supplementary Information For DeepMIP: Model
intercomparison of early Eocene climatic optimum
(EECO) large-scale climate features and comparison with
proxy data

December 12, 2019

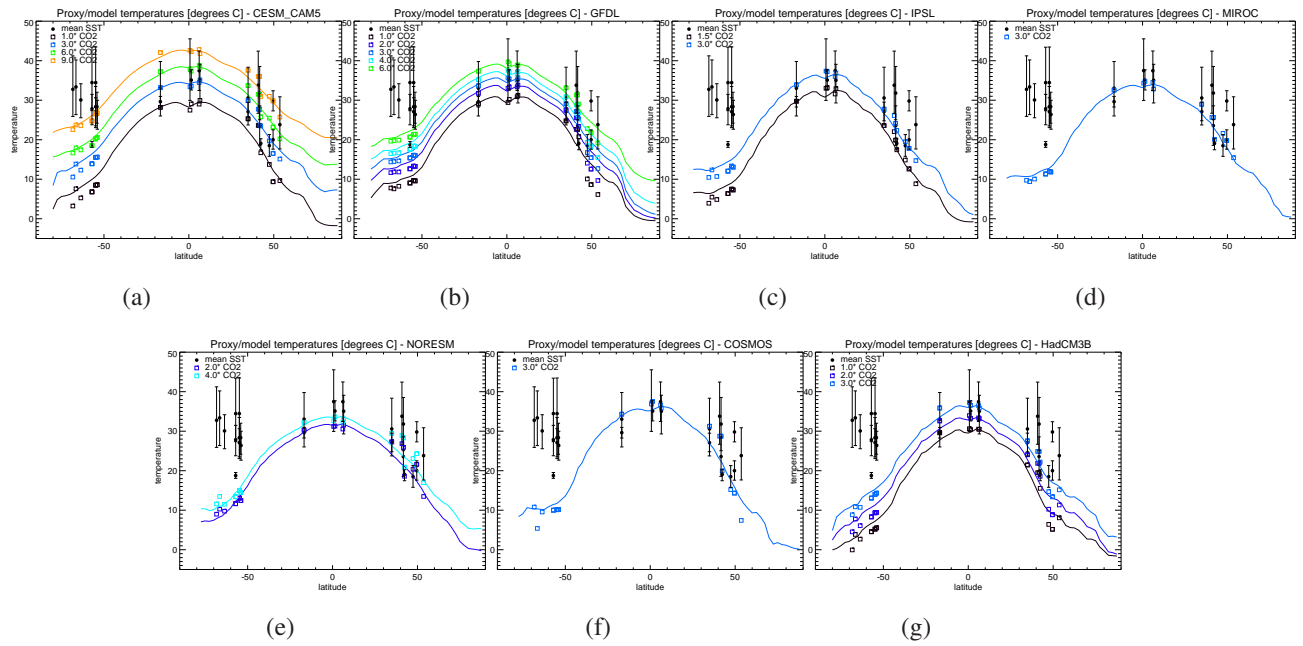


Figure 1: S1: Zonal mean SSTs in each DeepMIP model, for each CO₂ simulation carried out. EECO SST proxies from [Hollis *et al.*(2019)] are also shown.

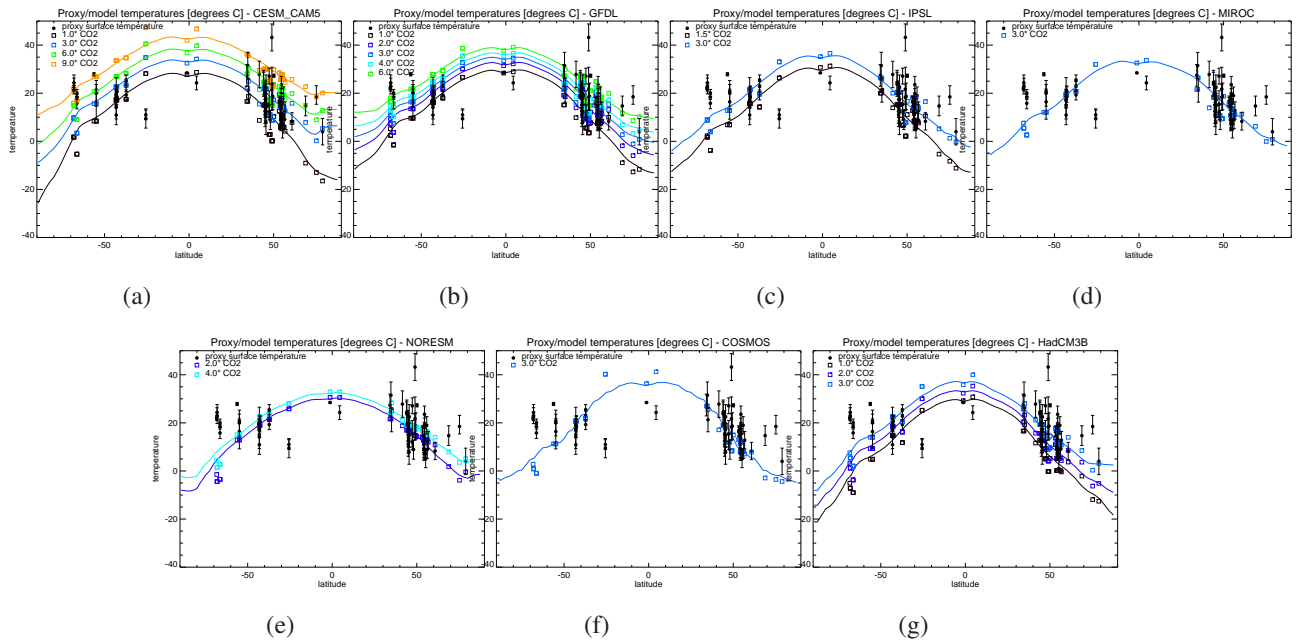


Figure 2: S2: Zonal mean near-surface air temperatures (SAT) in each DeepMIP model, for each CO₂ simulation carried out. EECO SAT proxies from [Hollis *et al.*(2019)] are also shown.

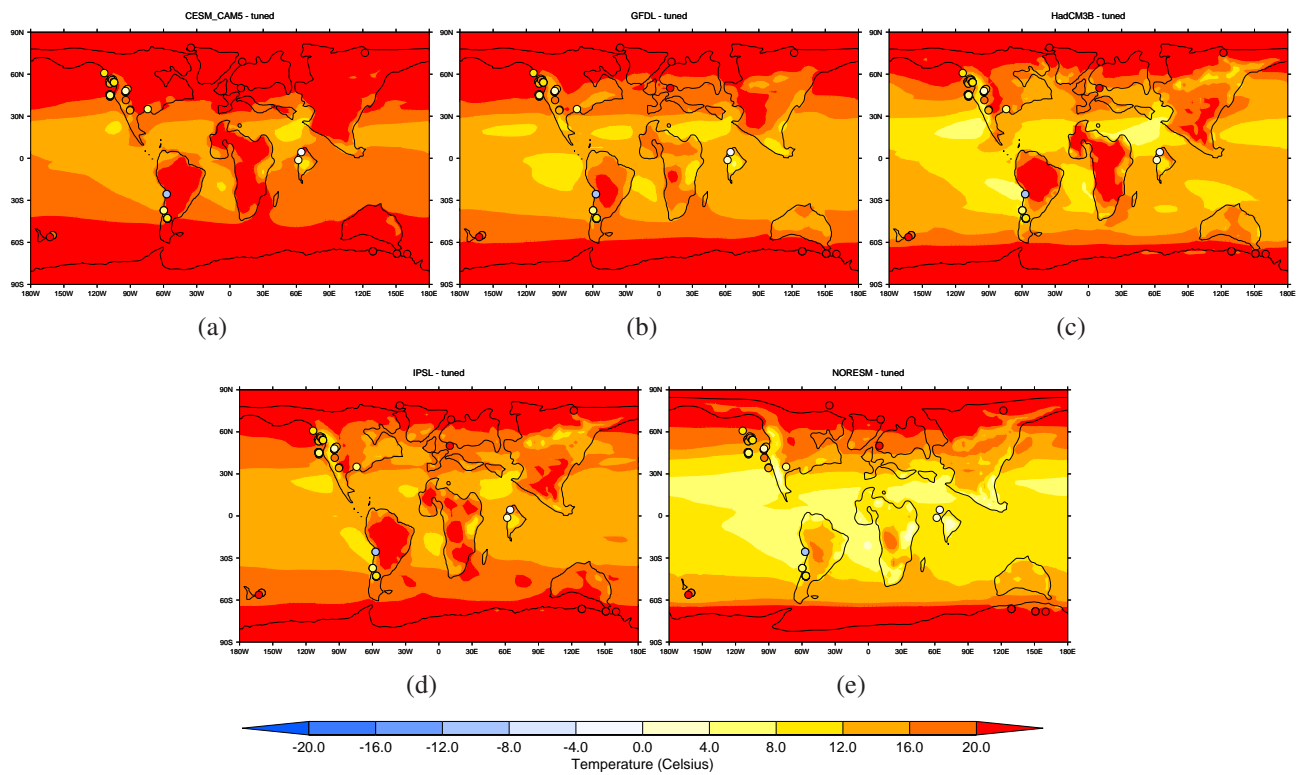


Figure 3: S3: As Figure 4 in the main paper, but for near-surface air temperatures from models and proxies instead of SSTs. Note that the scaling factor is the same as in Figure 4 in the main paper, and is therefore chosen to best match the SST data.

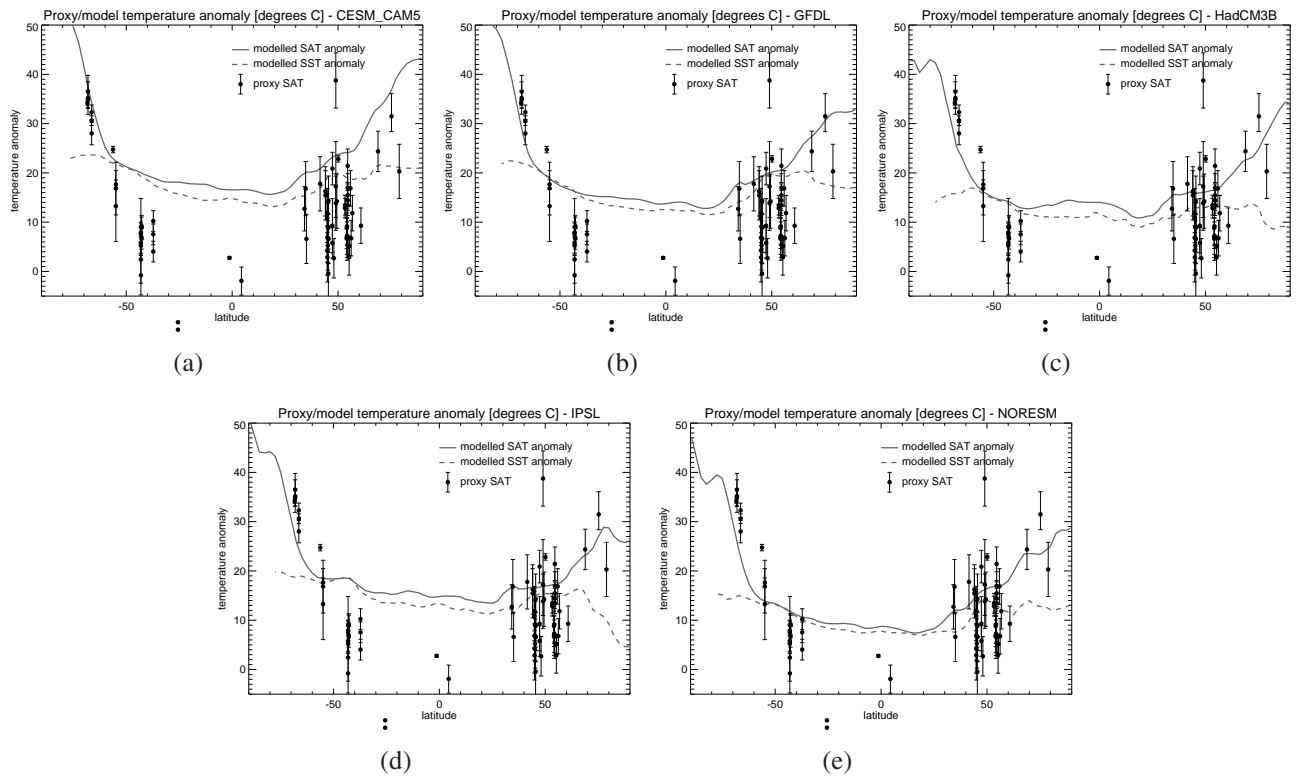


Figure 4: S4: As Figure 5 in the main paper, but for near-surface air temperatures from models and proxies instead of SSTs. Note that the scaling factor is the same as in Figure 5 in the main paper, and is therefore chosen to best match the SST data.

References

- [Hollis *et al.*(2019)] Hollis, C. J., Dunkley Jones, T., Anagnostou, E., Bijl, P. K., Cramwinckel, M. J., Cui, Y., Dickens, G. R., Edgar, K. M., Eley, Y., Evans, D., Foster, G. L., Frieling, J., Inglis, G. N., Kennedy, E. M., Kozdon, R., Lauretano, V., Lear, C. H., Littler, K., Lourens, L., Meckler, A. N., Naafs, B. D. A., Pälike, H., Pancost, R. D., Pearson, P. N., Röhl, U., Royer, D. L., Salzmänn, U., Schubert, B. A., Seebeck, H., Sluijs, A., Speijer, R. P., Stassen, P., Tierney, J., Tripathi, A., Wade, B., Westerhold, T., Witkowski, C., Zachos, J. C., Zhang, Y. G., Huber, M., and Lunt, D. J. (2019). The deepmip contribution to pmip4: methodologies for selection, compilation and analysis of latest paleocene and early eocene climate proxy data, incorporating version 0.1 of the deepmip database. *Geoscientific Model Development*, **12**(7), 3149–3206.