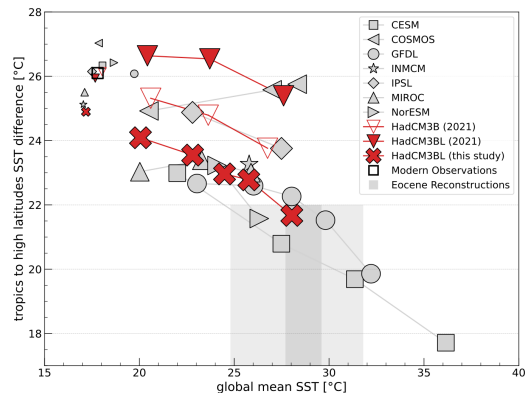
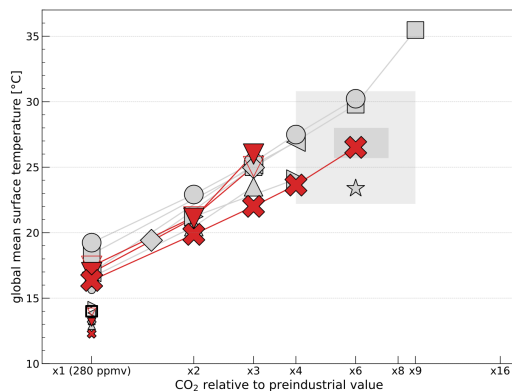


Modelling the Early Eocene: Tunings and Modifications to the HadCM3L Global Circulation Model – Andy Lyford, MScR



- My research concerns tuning Bristol's HadCM3L model, in line with the methodologies described in the DeepMIP projects in an attempt to better model the early Eocene.
- Drawing from the latest University of Bristol Deep-Time model variations, a number of changes were imported to bring the DeepMIP version in line with the latest standards, thus creating these HadCM3BL_Tuned Eocene simulations at a range of atmospheric CO₂ levels.
- The above figure shows the models in the DeepMIP family, with this study and its recent analogues in red. As you can see, the 6xCO₂ simulation in this project sits within the bounds of Eocene reconstructions, something other models have had trouble with achieving in the past.