



Late Miocene model-data comparisons and challenges

D.J. Lunt (1), P.J. Valdes (1) and R. Flecker (1)

(1) BRIDGE, University of Bristol, UK (d.j.lunt@bristol.ac.uk)

Due to a sparsity of quality data, the Late Miocene provides a challenge to both the data and modelling communities. In this paper we show how modelling results can inform the collection of paleodata. We carry out several simulations of the Late Miocene with an atmosphere-only GCM (HadAM3), with varying prescribed SSTs. The resulting anomalies over the continents indicate regions where large signals of temperature and precipitation are likely to be found when planning field campaigns.

We also present preliminary results from a fully coupled atmosphere-ocean-vegetation model (HadCM3L) of the Late Miocene, and compare it to the available paleodata.