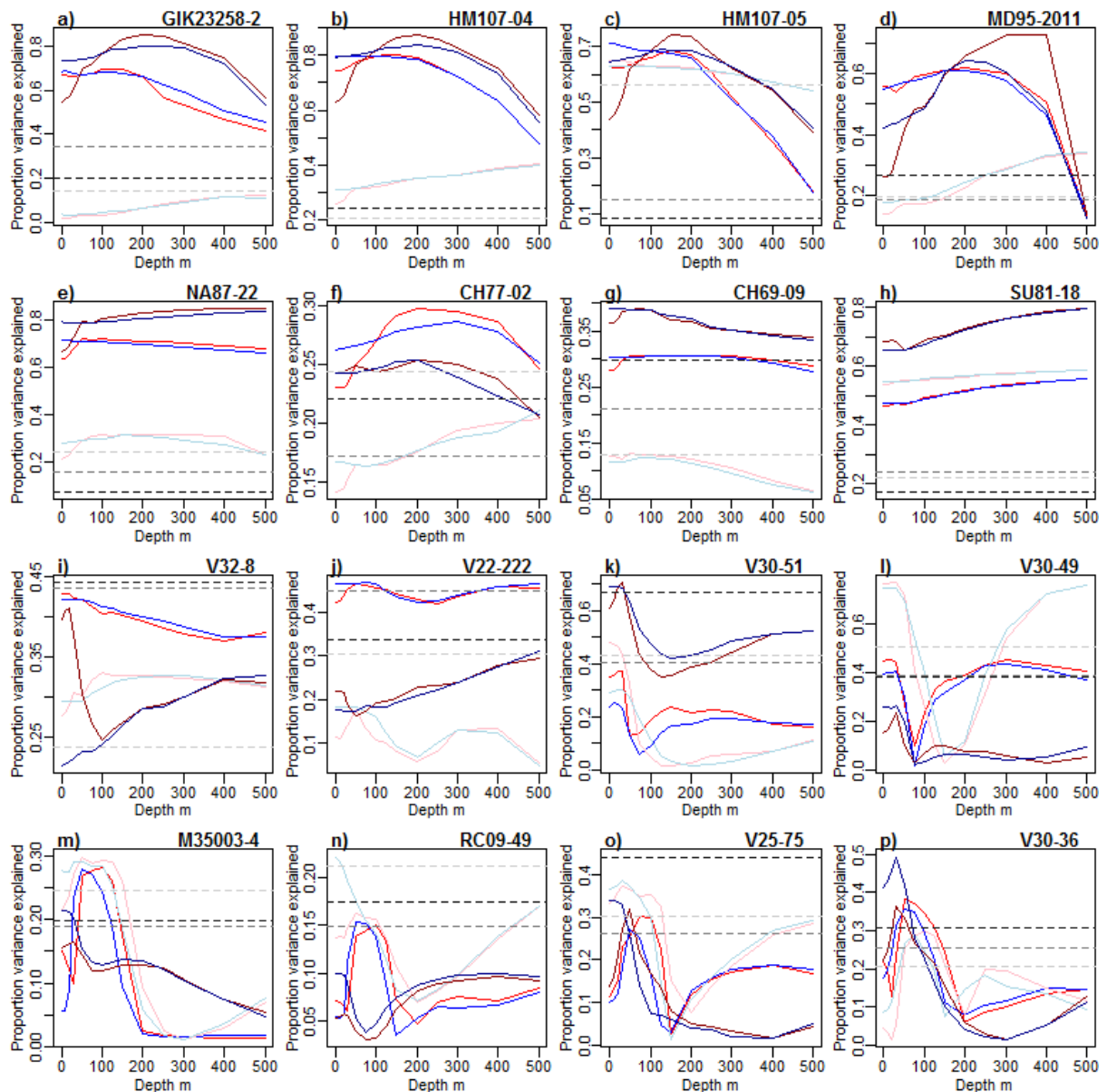


Supplementary information for Telford et al. (2013) Climate of the Past



Supplementary Figure 1.

As figure 5, the proportion of variance in the fossil data explained by reconstructions of warm (red) and cold (blue) season temperatures at different depths. The dark colours show the variance explained in the deep-dwelling species by a reconstruction based just on the deep-dwelling species, the pale colours and mid-tones shows same for the shallow-dwelling species and the entire community respectively. The grey dashed lines are the 95% significance levels for the deep (dark), total (mid-tone) and shallow (pale) faunas, assessed by finding the proportion of variance explained by reconstructions of random environmental data. Note that the y-axis scale changes between plots and cannot be directly compared as the diversity is different at each site.

We classified the following species as deep-dwelling species: *Globorotalia hirsuta*, *G. crassaformis*, *G. truncatulinoidea* total, *G. inflata*, *G. menardii tumida*, *G. scitula*, *Beela digitata*, *Globigerinoides conglobatus*, *Neogloboquadrina dutertrei*, *N. pachyderma* sinistral, and *N. pachyderma* dextral PD.