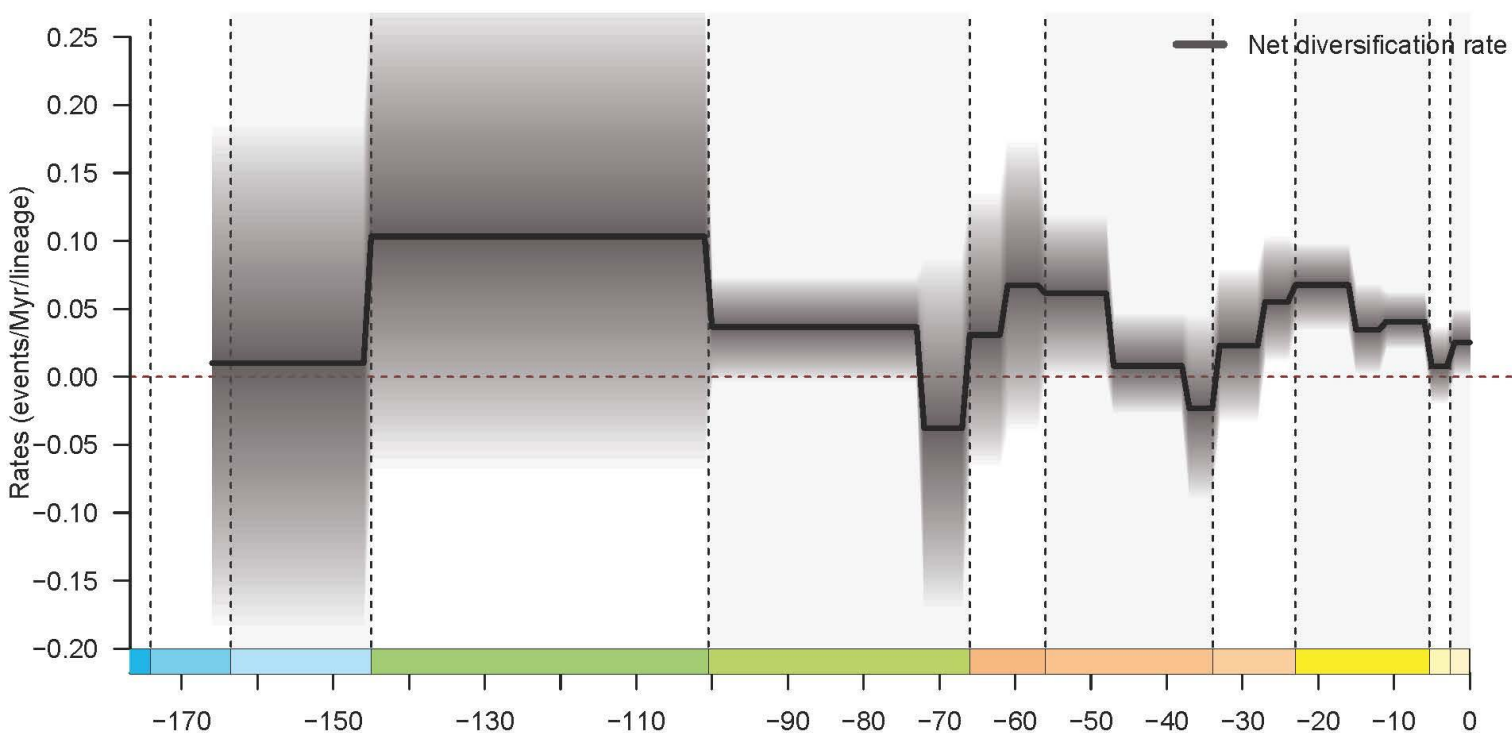
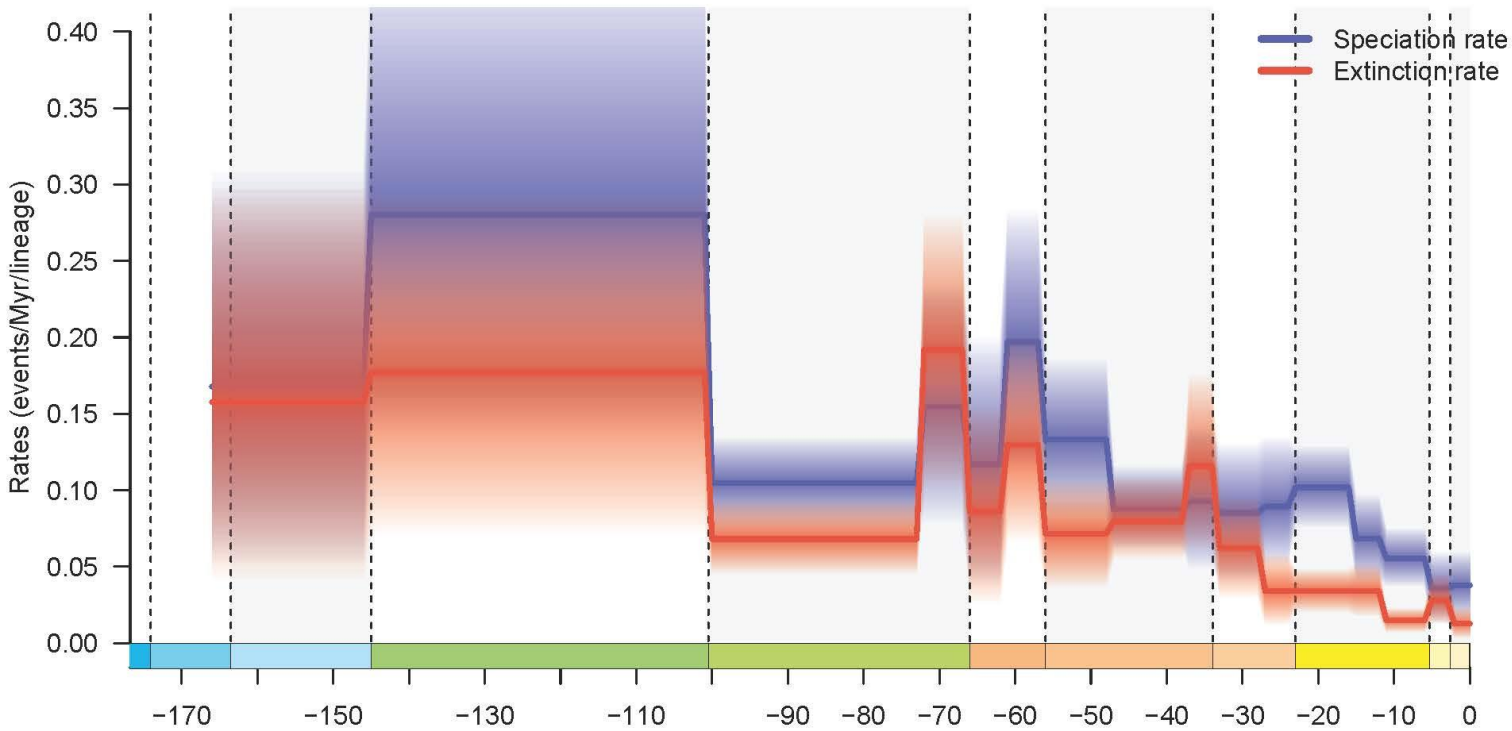




Supplementary Data S15. Diversification dynamics of Carcharhiniformes estimated with the fossil and phylogenetic dataset and geological epochs (and stages in the Cenozoic). Inferences of speciation (blue) and extinction (red) rates with analyses at the species level under the birth–death model with constrained shifts. The net diversification rates (black) are the difference between speciation and extinction rates (rates below 0 indicate declining diversity). Solid lines indicate mean posterior rates and the shaded areas show 95% HPD. As for the fossil-only analyses, the results show negative net diversification rates that lead to a diversity decline for the group at the Cretaceous–Paleogene and Eocene–Oligocene boundaries, but do not indicate such negative rates in the mid-Miocene and the last 5 million years. On the contrary, the group expands from the Eocene–Oligocene boundary onward.