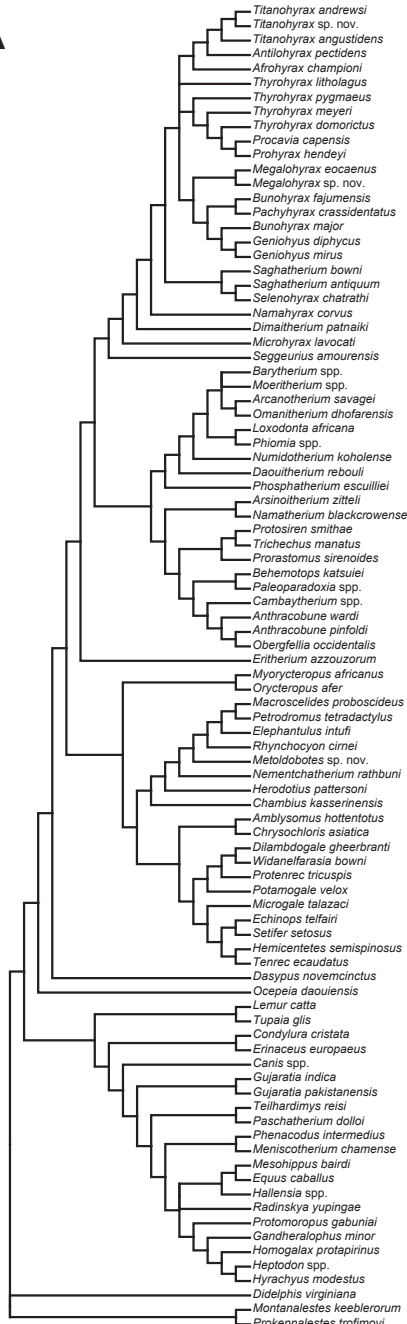


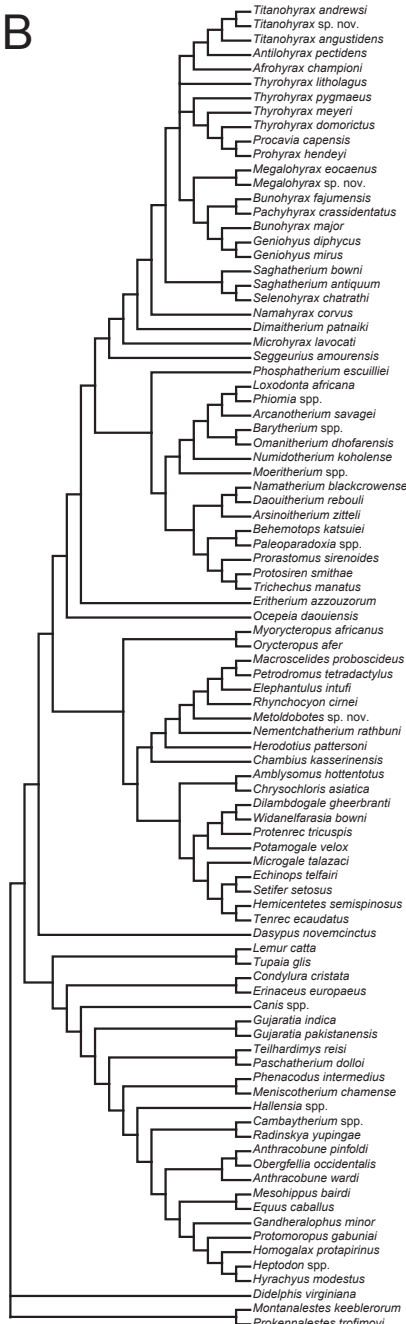
Alternative constraints, with steps between 'fixed' and 'polymorphic' states in ordered multistates weighted as 0.5

A



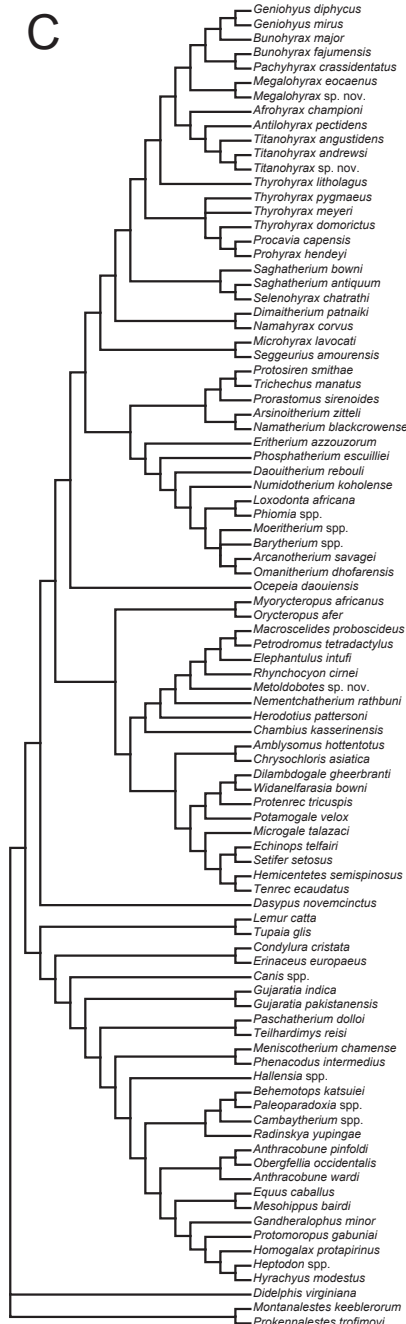
Constraint 3: Anthracobunidae constrained to join Paenungulata. Tree length = 3711 (+6.5 steps).

B



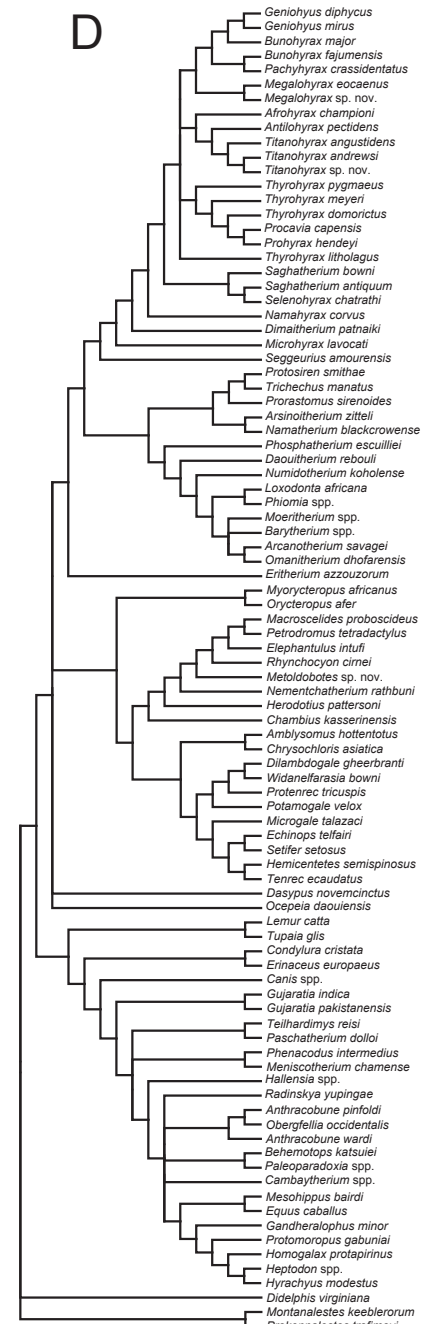
Constraint 4: Desmostylia constrained to join Paenungulata. Tree length = 3702 (+3.5 steps).

C



Constraint 5: *Eritherium* and *Phosphatherium* constrained to be stem proboscideans. Tree length = 3710 (+5.5 steps).

D



Constraint 6: *Cambaytherium* constrained to join anthracobunids to the exclusion of crown perissodactyls. Tree length = 3707.5 (+3 steps).