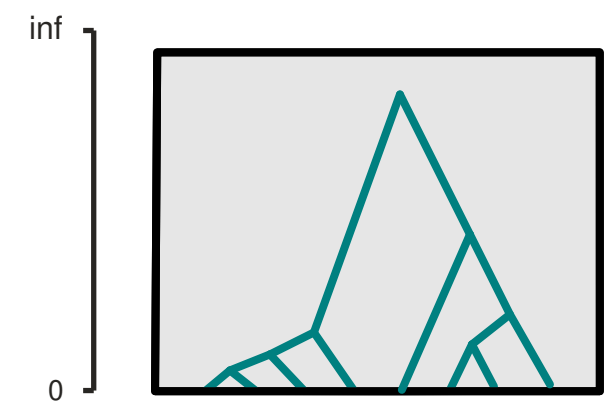


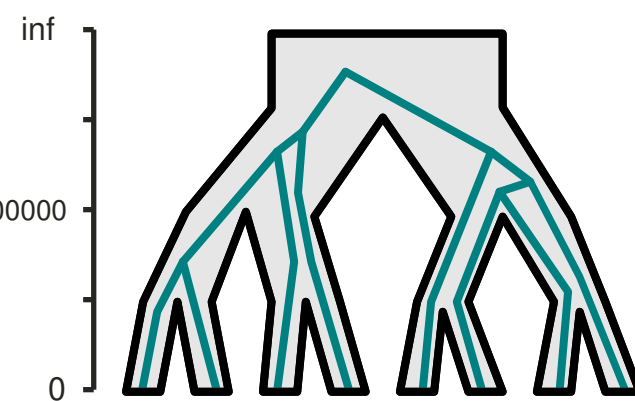
(a)

Constant  $N_e$  Models

Single-population Model



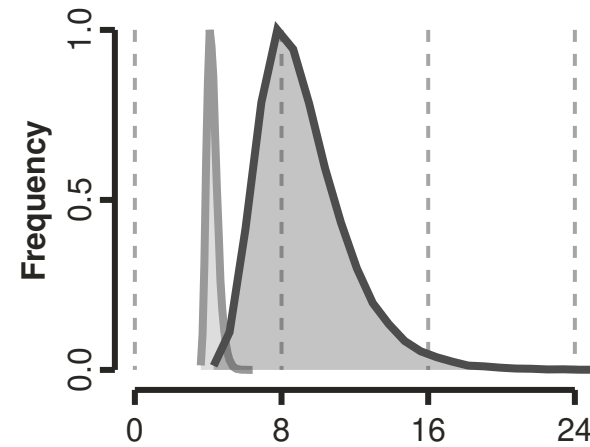
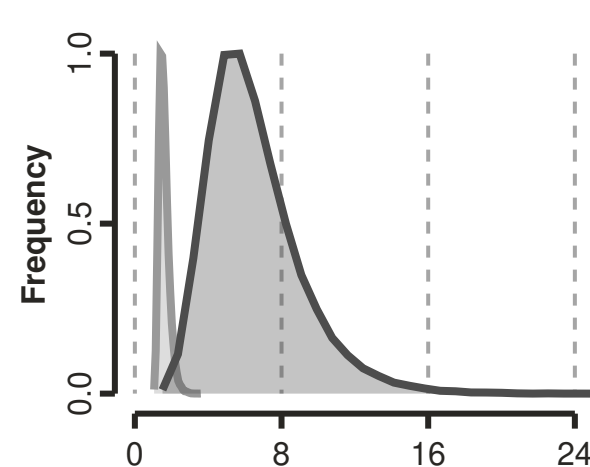
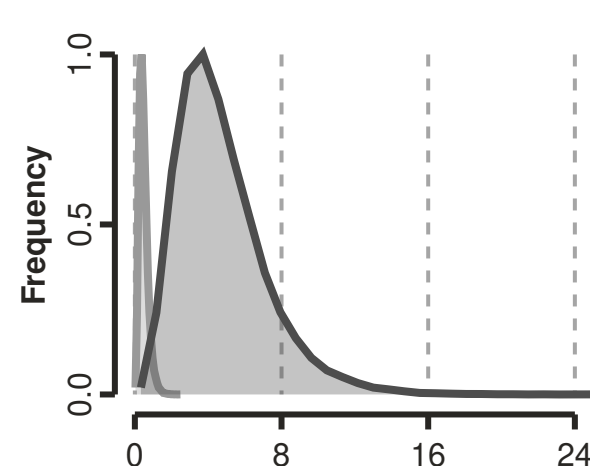
Two-population Model



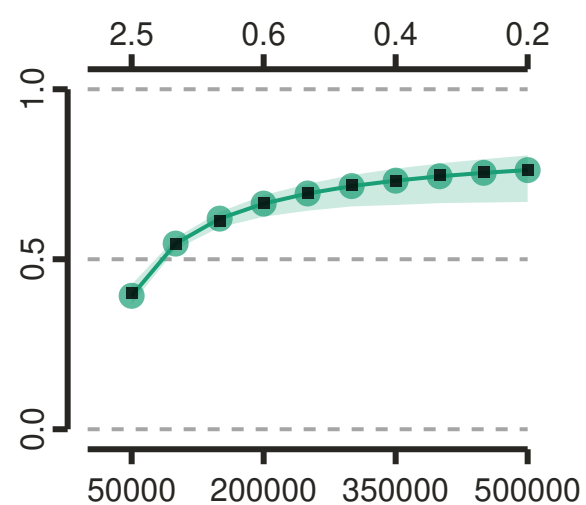
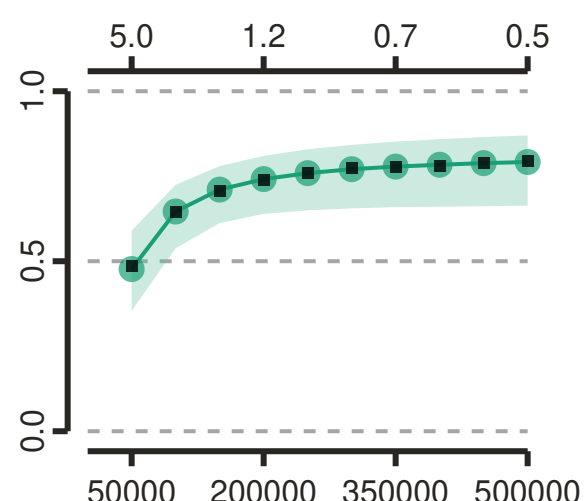
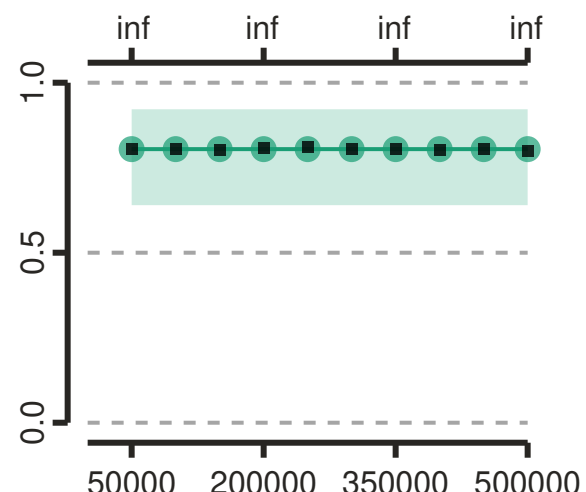
Phylogeny Model

(b)

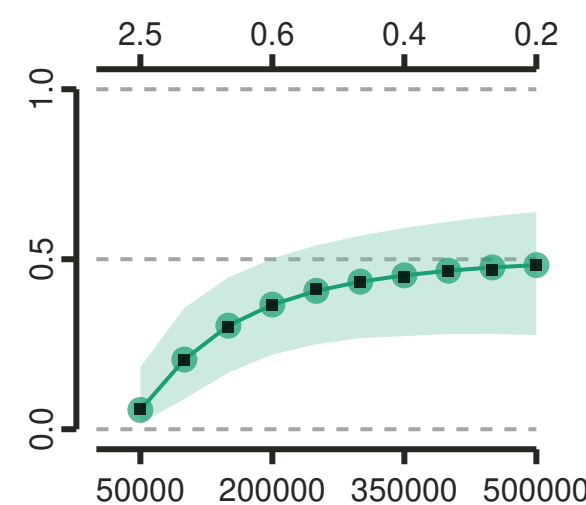
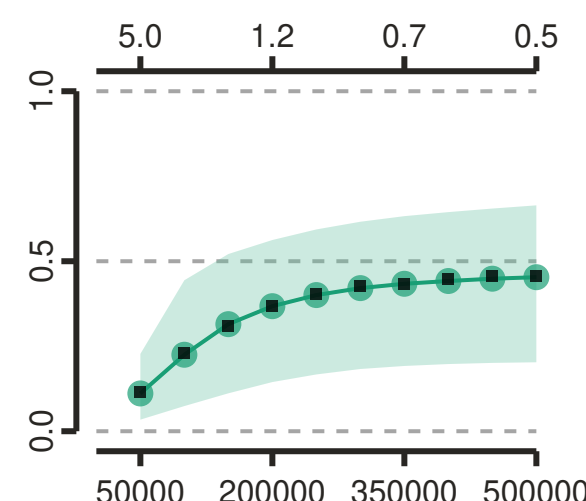
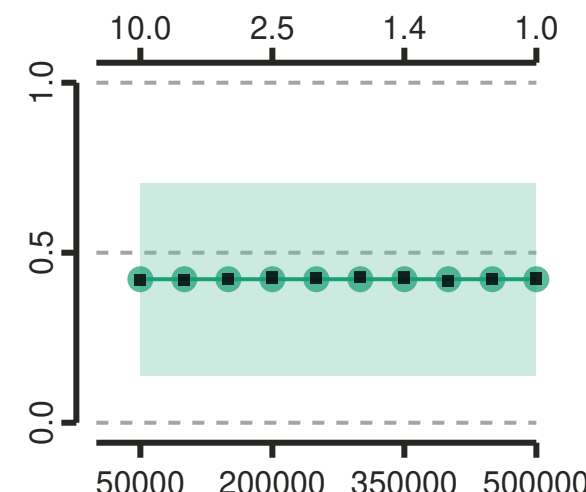
Genealogy Lengths

Genealogy sum length ( $\times 10^6$ )

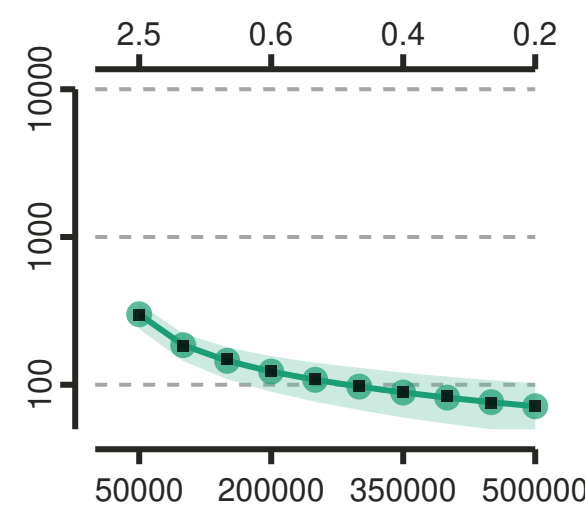
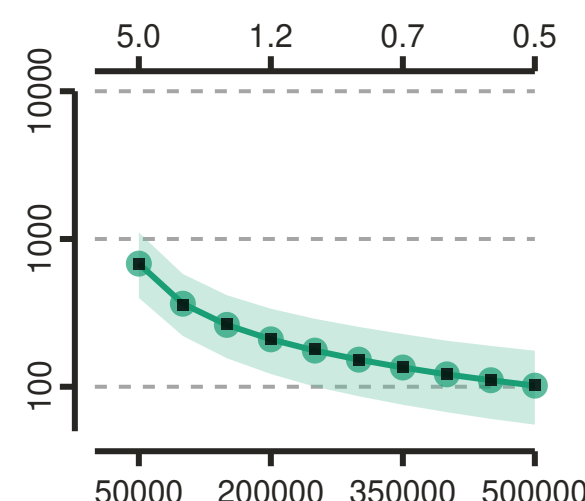
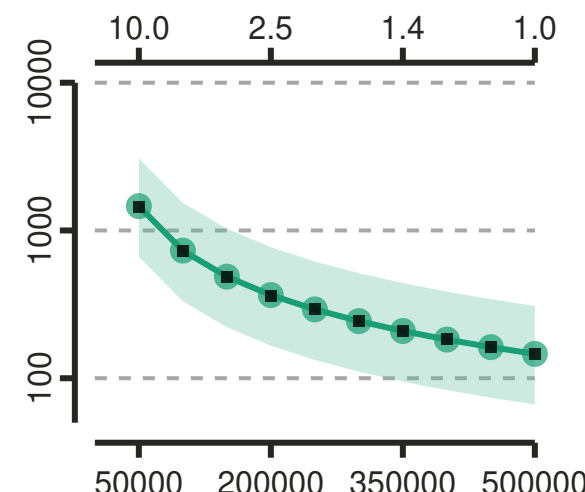
(c)

Model Edge Length ( $\times 1/2N_e$ )Effective population size ( $N_e$ )

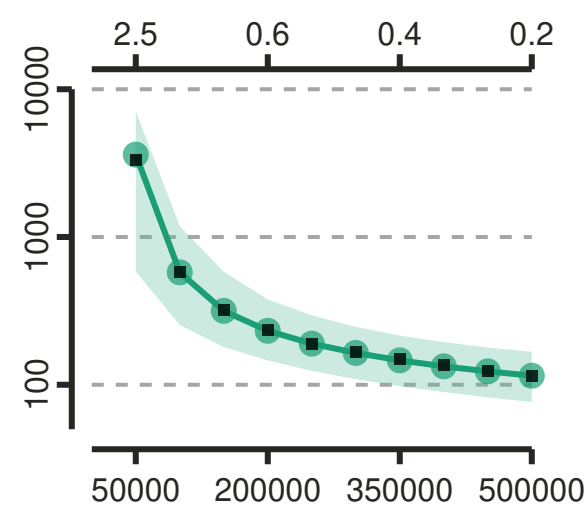
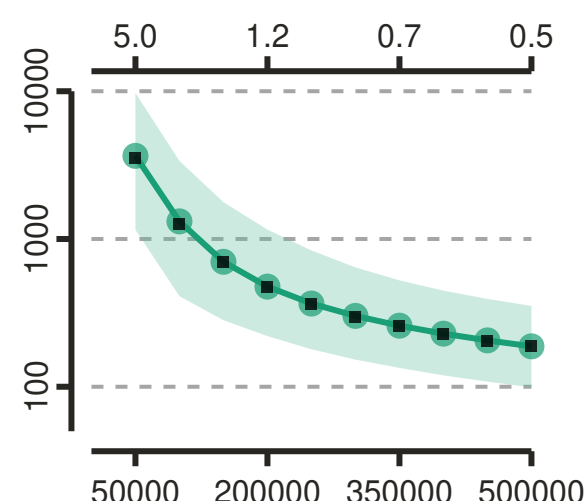
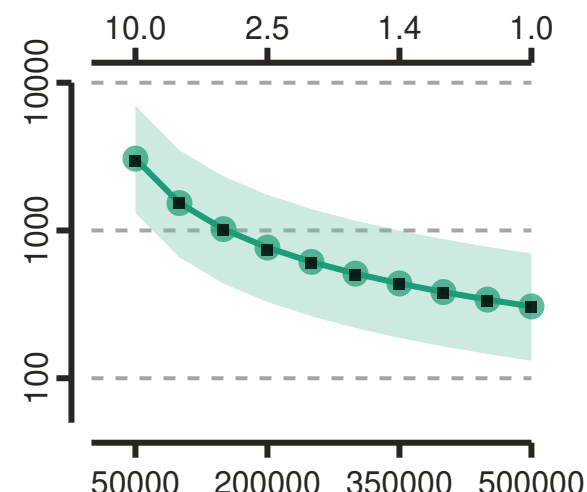
(d)

Model Edge Length ( $\times 1/2N_e$ )Effective population size ( $N_e$ )

(e)

Model Edge Length ( $\times 1/2N_e$ )Effective population size ( $N_e$ )

(f)

Model Edge Length ( $\times 1/2N_e$ )Effective population size ( $N_e$ )

P(topology-change | S, G)

Waiting distance to tree-change

Waiting distance to topology-change