SUPPLEMENTARY INFORMATION

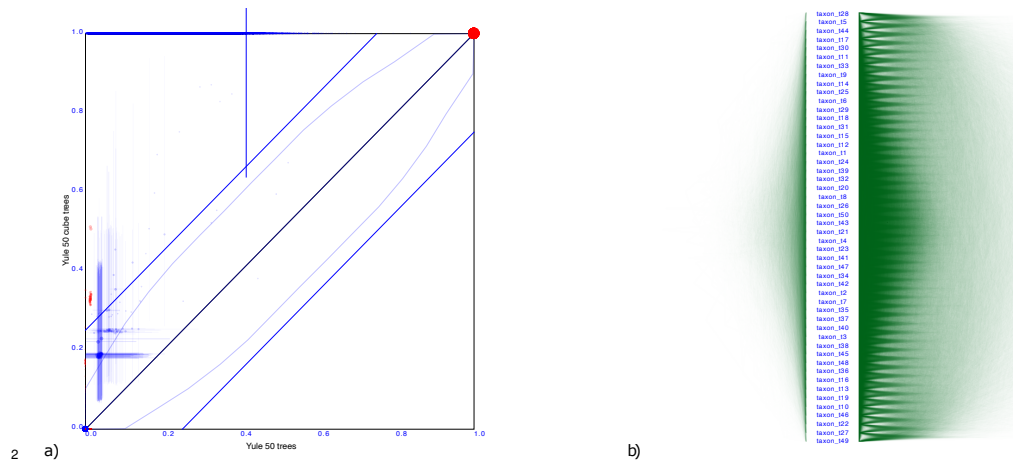2 a)   b)

3   **Figure S1** As Figure 3, but with a tree sampled from a Yule prior with 50 taxa, resulting in a tree set
4 sampled uniformly over ranked trees and has high entropy. The cube representation of this tree set has
5 substantially older internal nodes and higher clade support for many clades than the original tree set.