



Figure S1: **Richness vs.  $w_0\kappa_0$  and  $\langle l_\alpha \rangle$  under different modeling choices.** We generated 200 species, initialized 10 communities of 100 species each from this pool, and ran the dynamics to steady state under different combinations of  $w_0\kappa_0$  and  $\langle l_\alpha \rangle$ , for each of the six model choices listed at the beginning of Supporting Text Section 3. The color of each square indicates the mean number of non-extinct species at the end of the simulation, over all 10 communities at each combination of  $w_0\kappa_0$  and  $\langle l_\alpha \rangle$ .