

Generate a random patchy landscape
(number of patches, patch sizes, location,
and E conditions)

landscape scale
environmental
heterogeneity

Calculate inter-patch immigration
probabilities according to patch distance
and a negative exponential dispersal kernel

Generate 250 species with random niche
centers and identical niche breadth

Generate the meta-community by assigning
individuals to patches according to their
niche requirements

In each patch, kill 25% of the individuals

Determine the propagule pool for each
patch, and the identities and abundances of
establishing species in available sites

$T = T_{max}$?

landscape scale
species richness

Results

No

Yes

Temporal dynamics