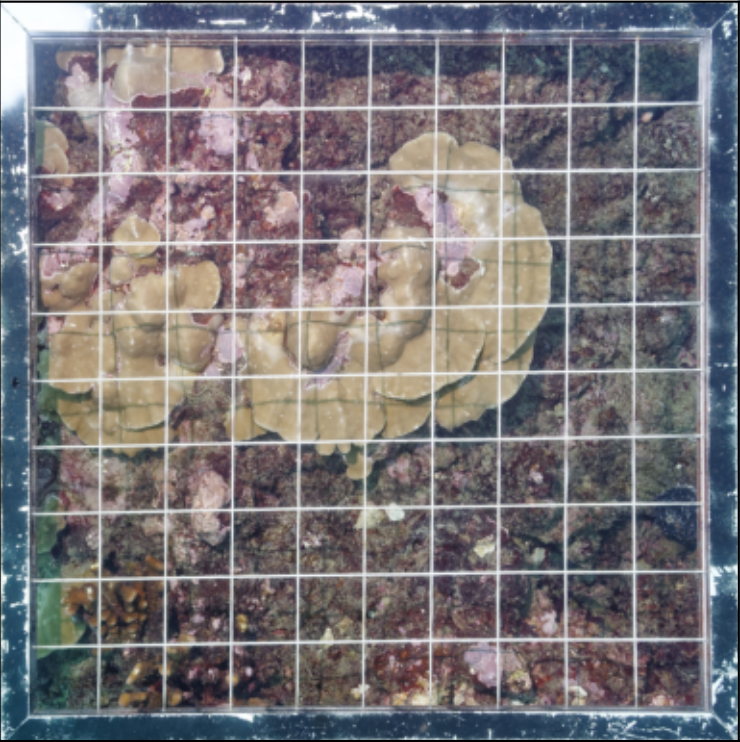
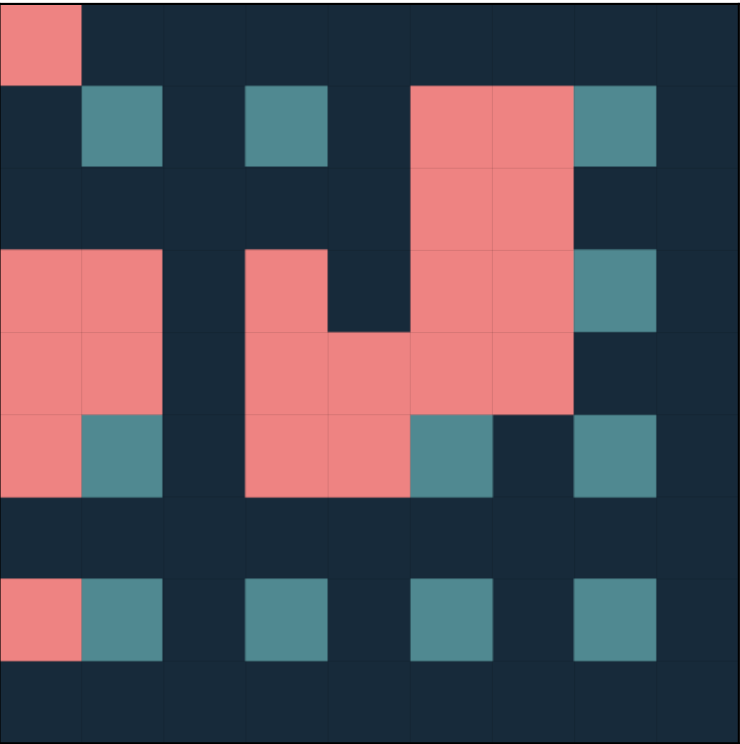


A. Model motivation

Coral data

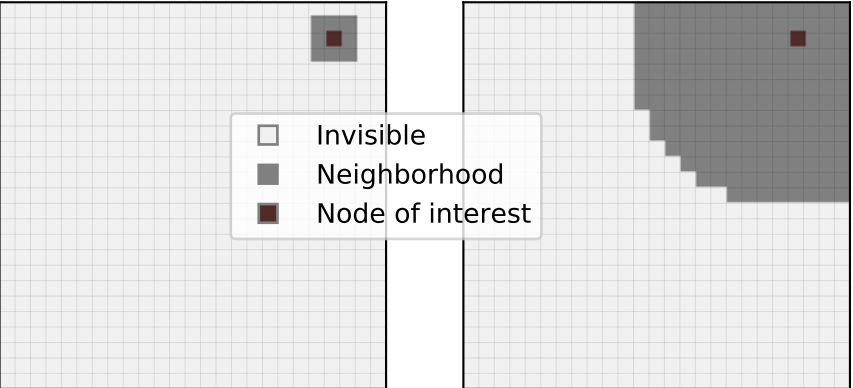


Agent-based model

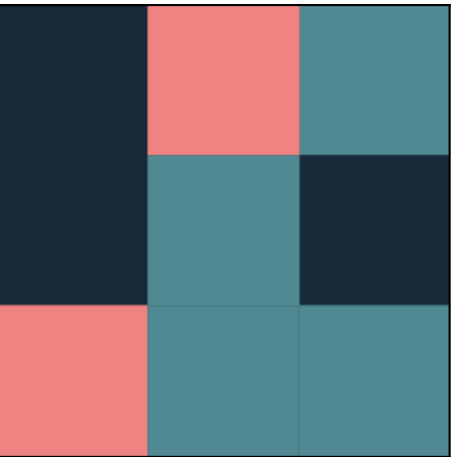


B. Model construction

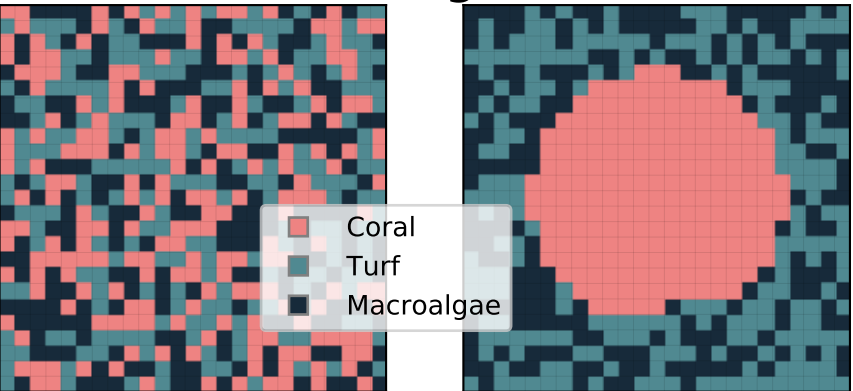
Neighborhood definition



Local neighborhood of node i



Initial configurations



Random

Cluster

C. Model simulation

Species cover temporal evolution of 100 simulations

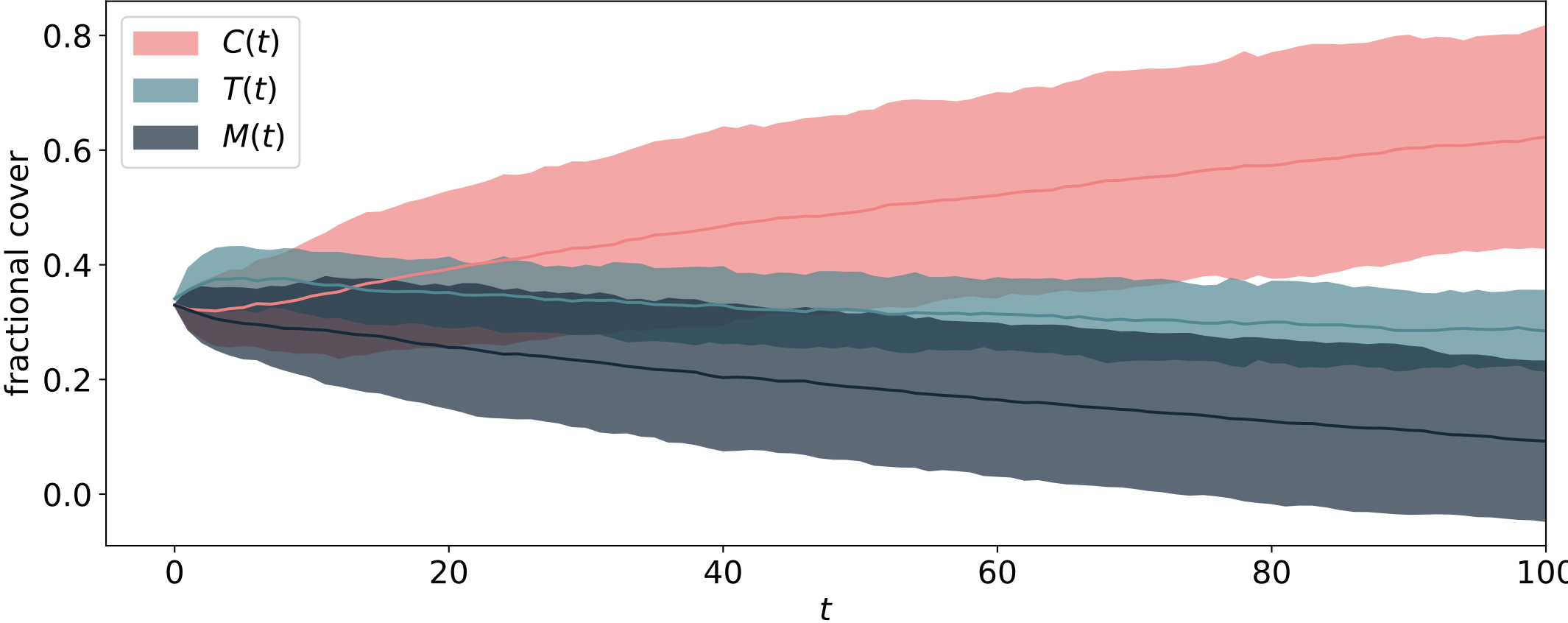
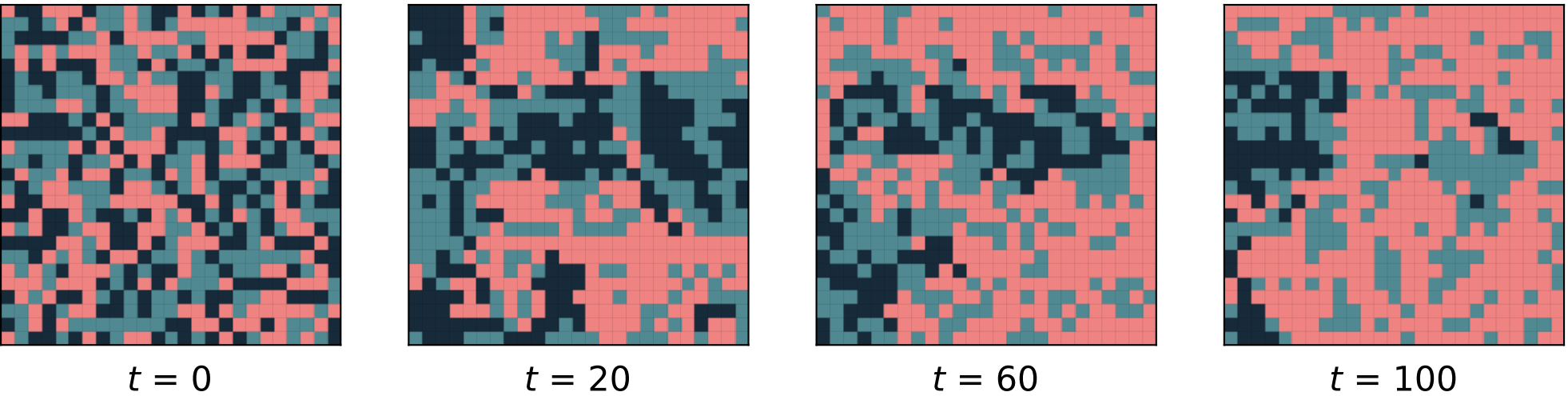


Illustration of model evolution



$t = 0$

$t = 20$

$t = 60$

$t = 100$