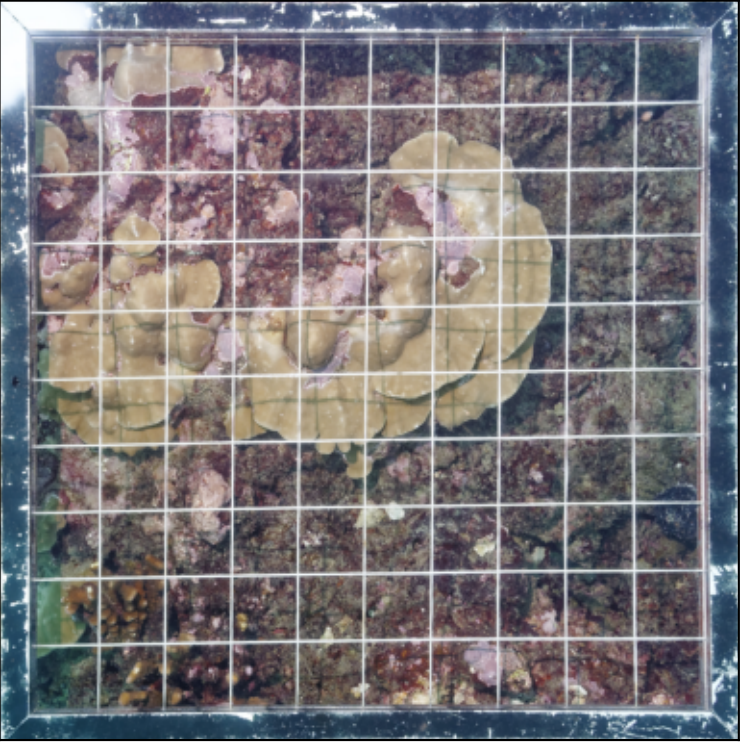
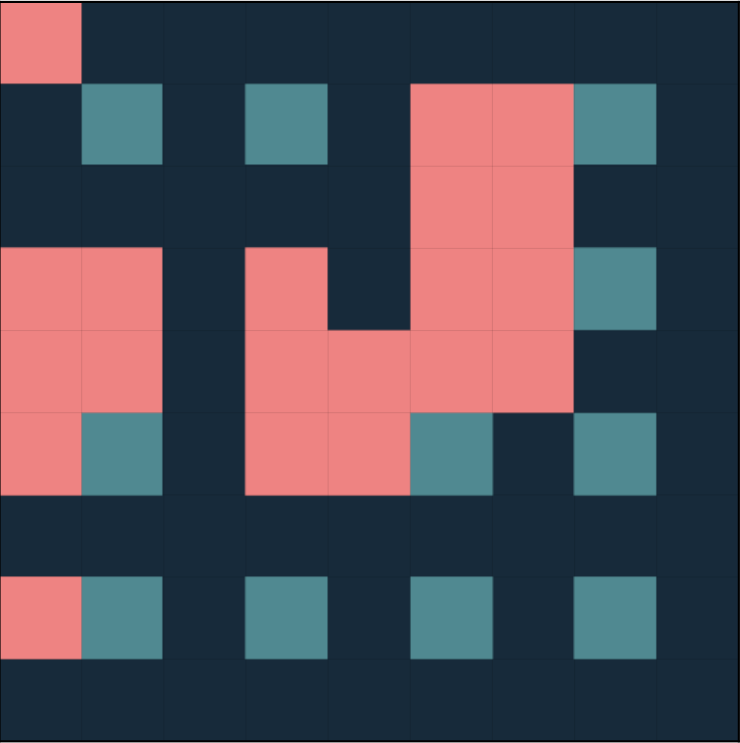


# A. Model motivation

Coral data

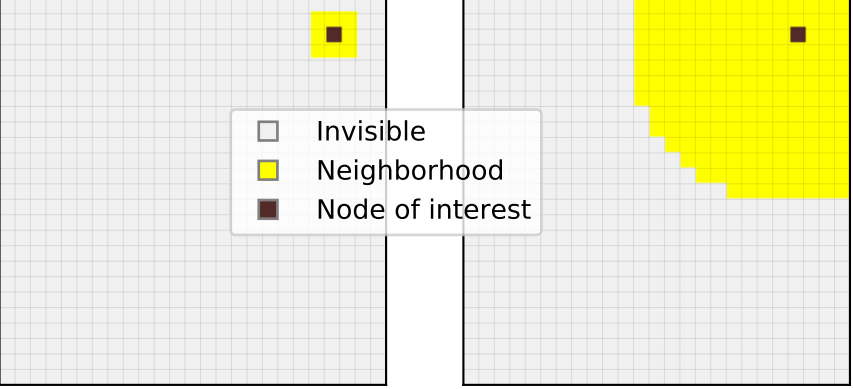


Agent-based model

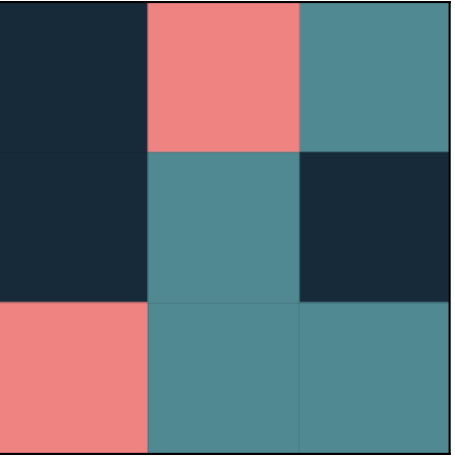


# B. Model construction

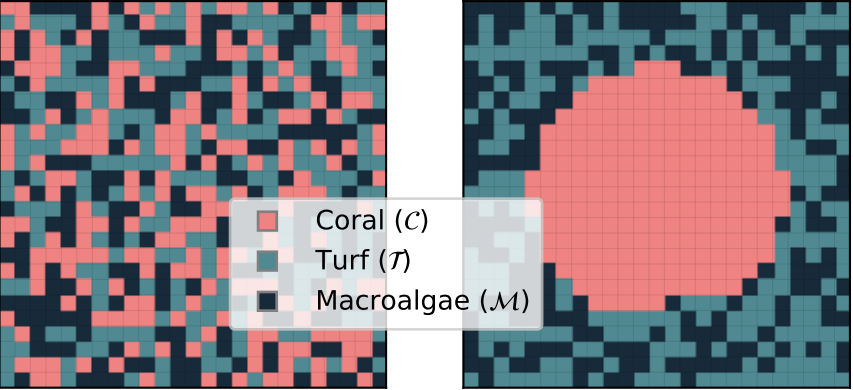
Neighborhood definition



Local neighborhood of node  $i$



Initial configurations



Random

Blob

# C. Model simulation

Species cover temporal evolution of 100 simulations

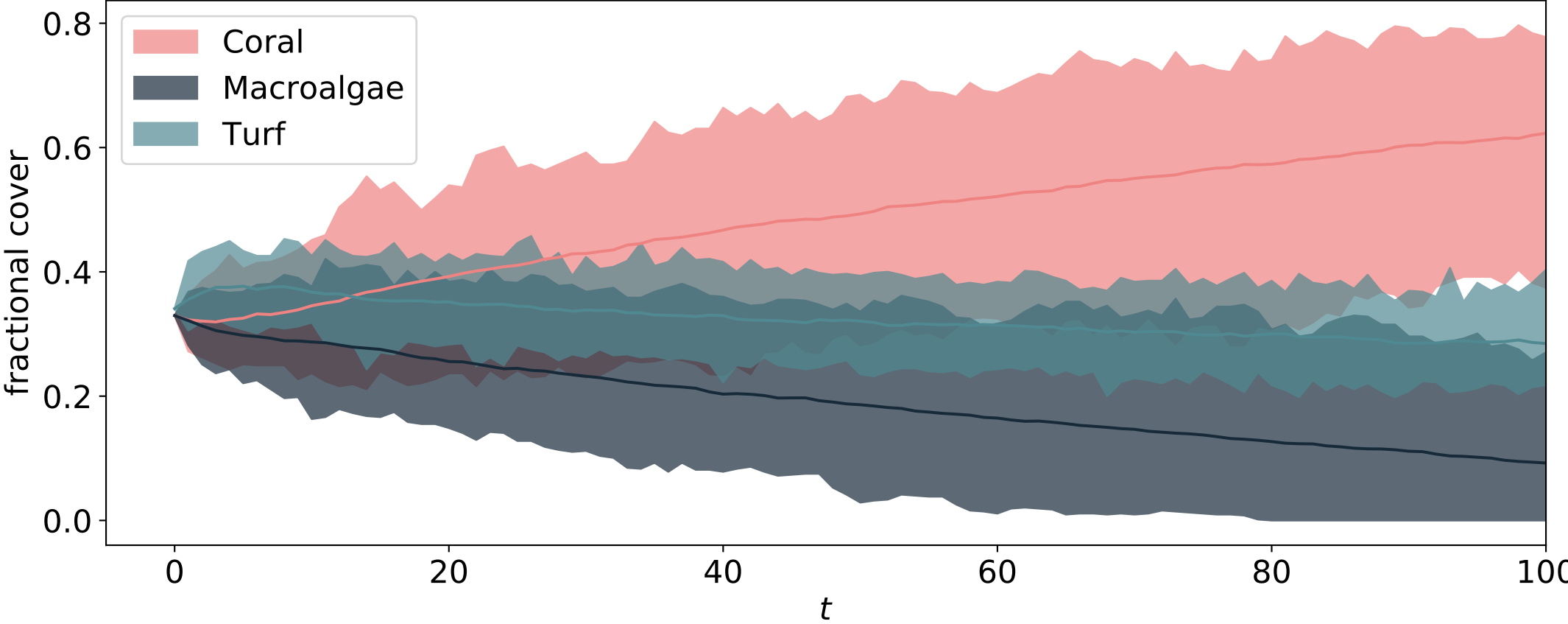
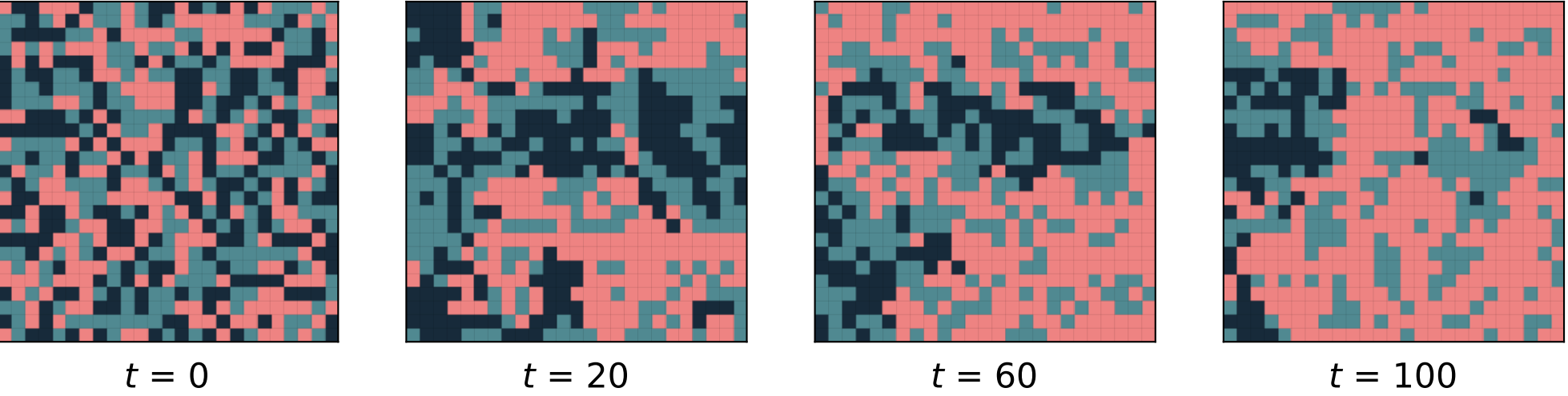


Illustration of model evolution



$t = 0$

$t = 20$

$t = 60$

$t = 100$