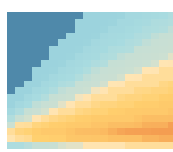
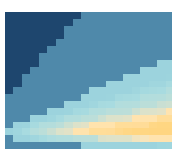
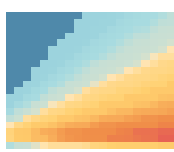
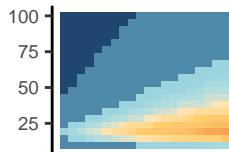
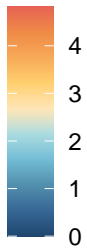


$\mu^{(2)} = 1.25$  (weak predation) $\mu^{(2)} = 2.5$  (strong predation) $r_0 = 0.4$  $r_0 = 0.8$  $r_0 = 0.4$  $r_0 = 0.8$  $\mu^{(0)} = 2.5$  $\mu^{(0)} = 5$  $\mu^{(0)} = 2.5$  $\mu^{(0)} = 5$  $\mu^{(1)} = 2.5$  (weak prey effect) $\mu^{(1)} = 5$  (strong prey effect)

FCL

River length  $L$ Branching rate  $\lambda_b$