

Chimeras with time-dependent migration rates

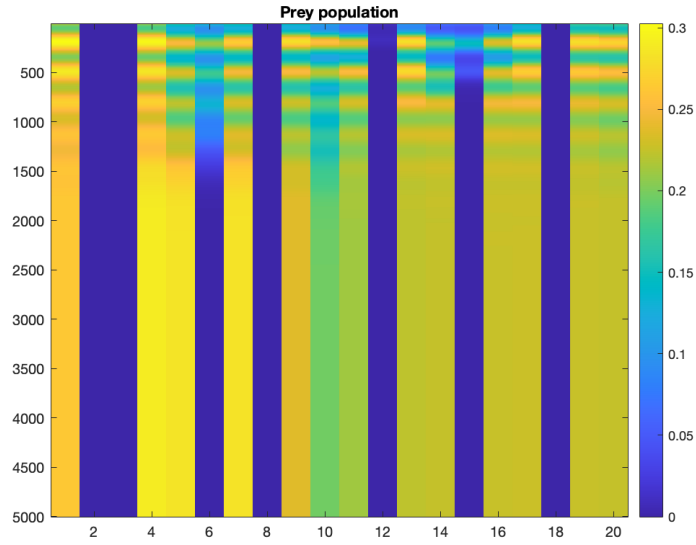


Figure 1: No time dependence of migration coefficient σ , 20 node chain.

1 Oscillatory Migration

Exploring oscillations over several orders of magnitude of speed

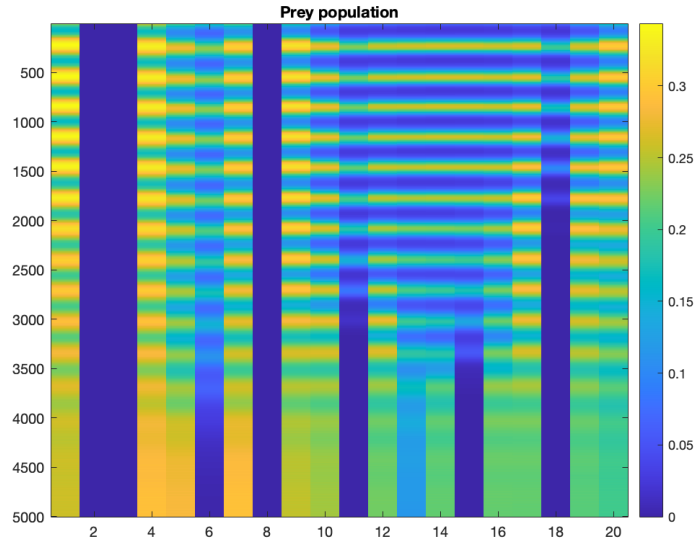


Figure 2: Migration oscillates in time, $\sigma = \|\cos(t)\|$

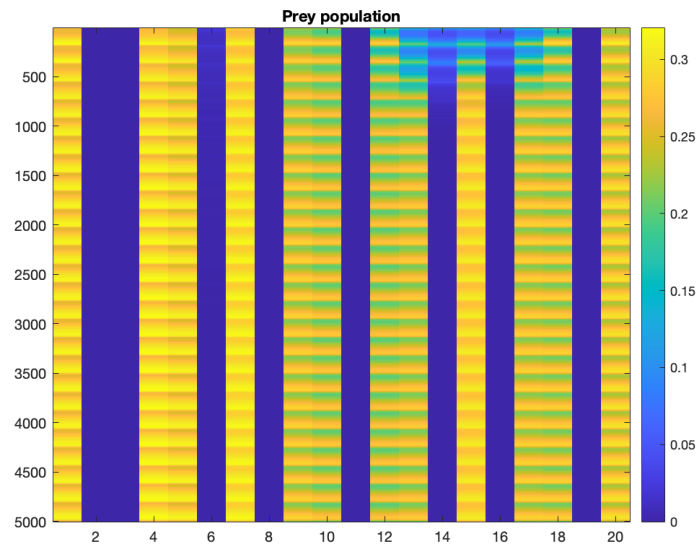


Figure 3: Migration oscillates in time, $\sigma = \|\cos(t/10)\|$

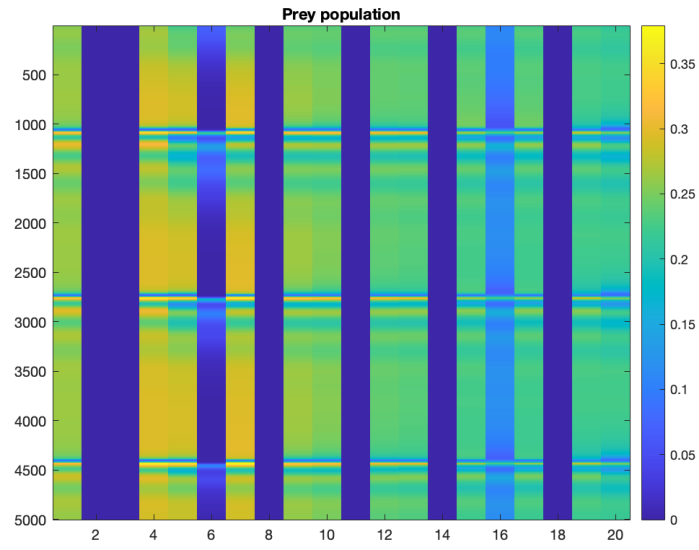


Figure 4: Migration oscillates in time, $\sigma = \|\cos(t/100)\|$

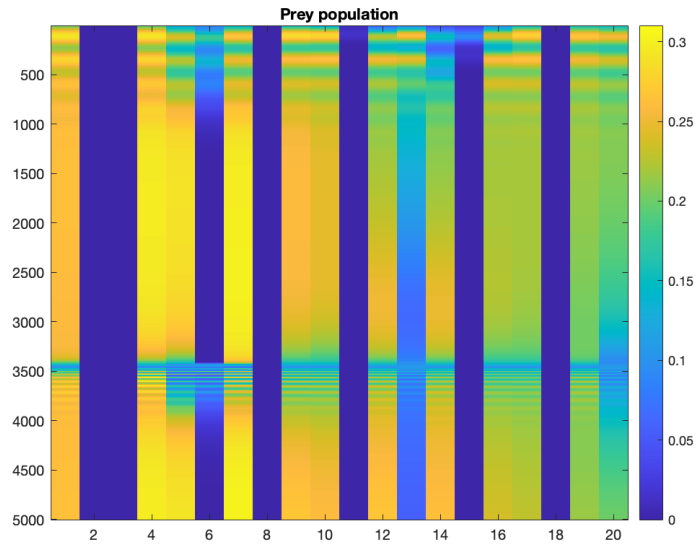


Figure 5: Migration oscillates in time, $\sigma = \|\cos(t/1000)\|$

2 Increasing Migration Rates

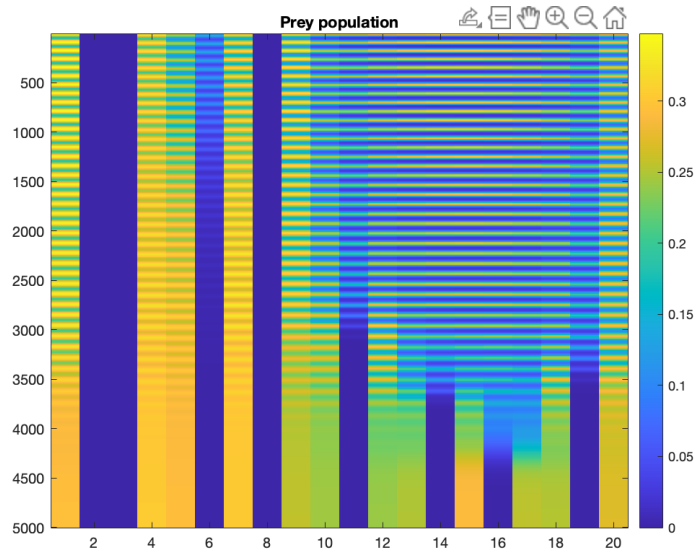


Figure 6: Migration increases linearly in time, $\sigma = \frac{t}{t_{final}}$

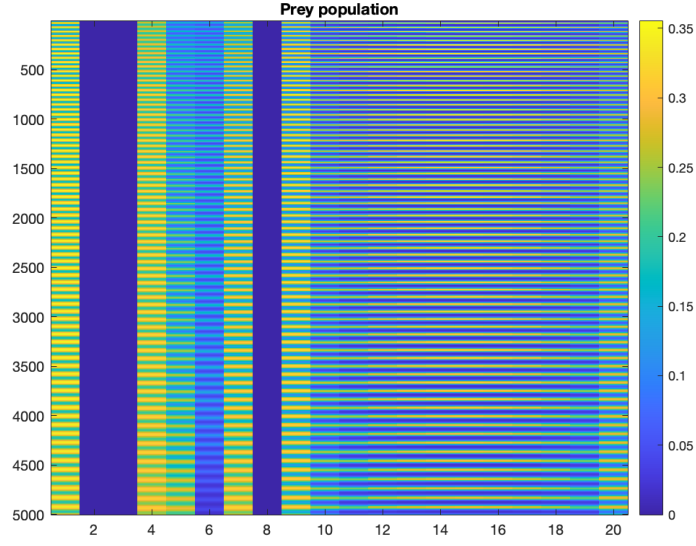


Figure 7: Migration increases quadratically with time, $\sigma = (\frac{t}{t_{final}})^2$

3 Decreasing Migration Rates

3.1 Polynomial rates of decay

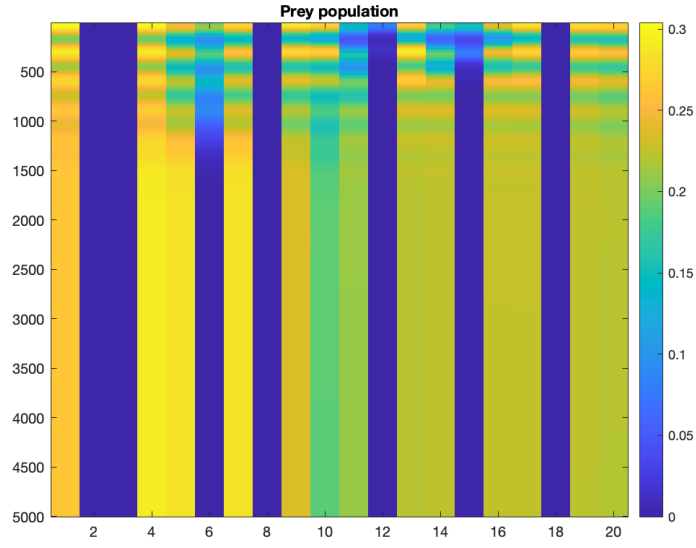


Figure 8: Migration decays linearly in time, $\sigma = \frac{(t_{final}-t)}{t_{final}}$

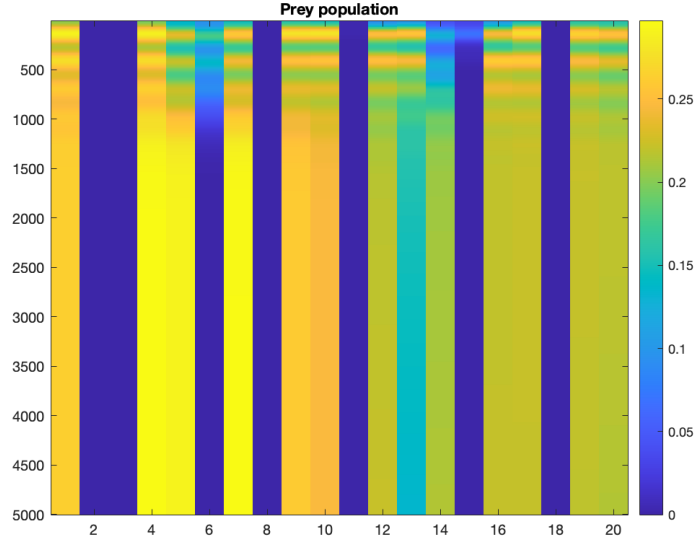


Figure 9: Migration decays quadratically in time, $\sigma = (\frac{t_{final}-t}{t_{final}})^2$

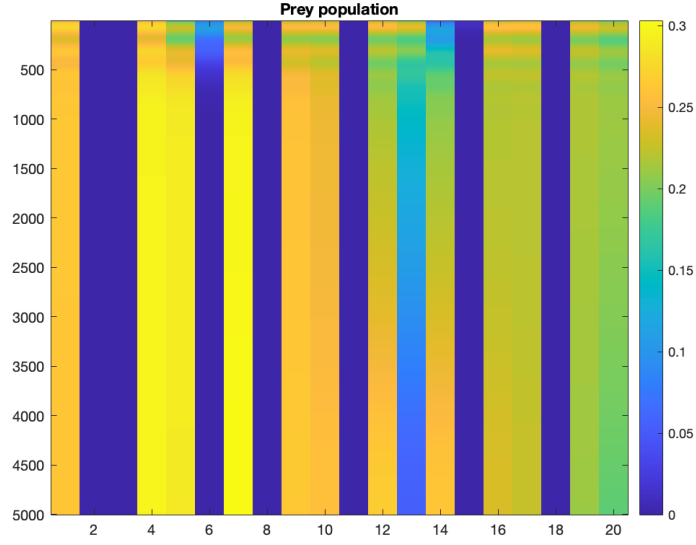


Figure 10: Migration decays quartically in time, $\sigma = (\frac{t_{final}-t}{t_{final}})^4$

3.2 Exponential rates of decay

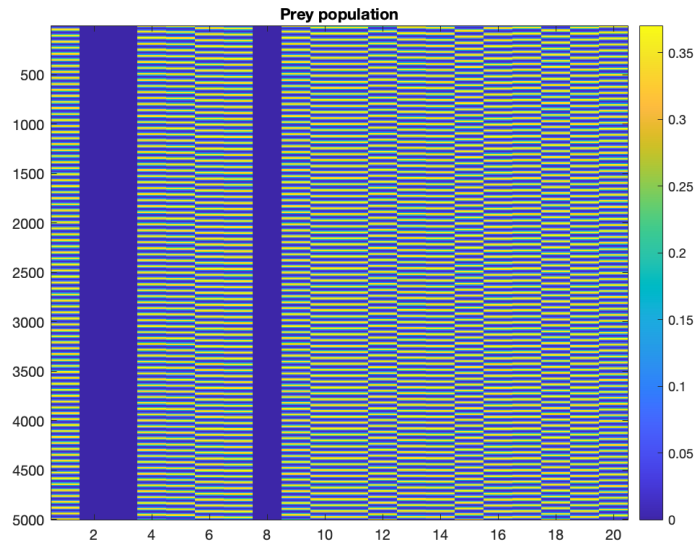


Figure 11: Migration decays exponentially in time, $\sigma = e^{-t}$

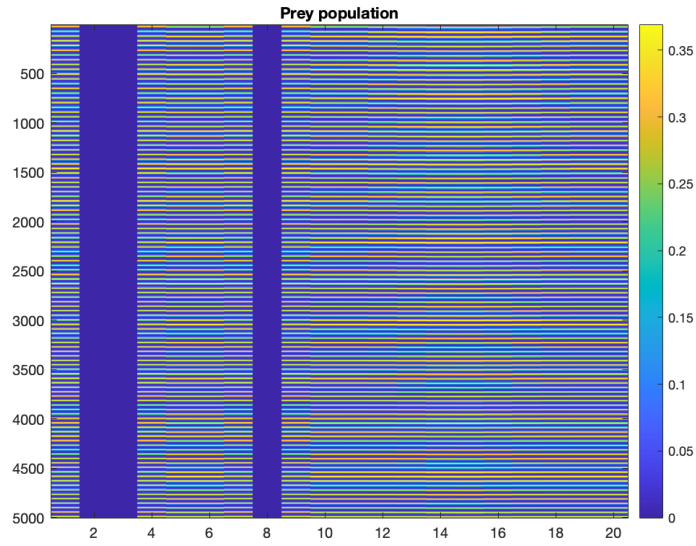


Figure 12: Migration decays exponentially in time, $\sigma = e^{-0.01t}$

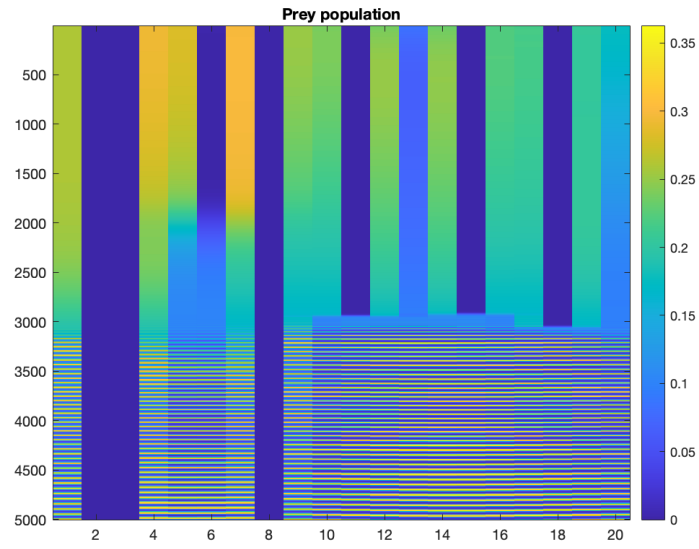


Figure 13: Migration decays exponentially in time, $\sigma = e^{-0.001t}$

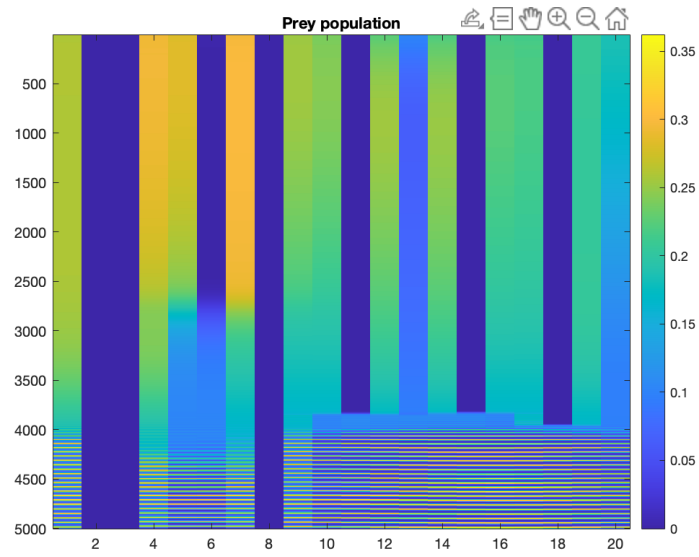


Figure 14: Migration decays exponentially in time, $\sigma = e^{-0.0009t}$

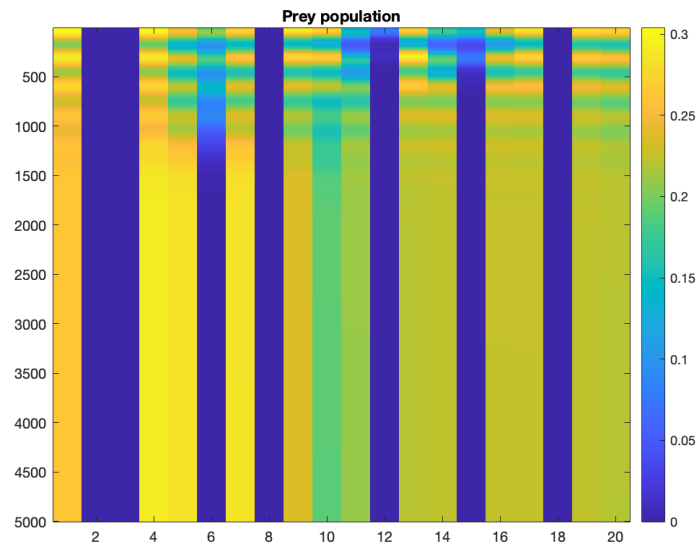


Figure 15: Migration decays exponentially in time, $\sigma = e^{-0.0001t}$