

Figure S13 Comparison of various diffusion approximations of the mean absorption time of A_1 . (A) The error of \bar{t}_{QLE} (Eq. 110 in File S1) relative to \bar{t}_{QLE} (Eq. 8) for various parameter combinations and an initial frequency of A_1 equal to $p_0 = 1/(2N)$ (we assumed $N_e = N$). Squares bounded by thick lines delimit combinations of values of the recombination rate r and the effective population size N_e . Within each of them, squares bounded by thin lines correspond to combinations of values of the migration rate m and the continental frequency q_c of A_1 , as shown in the small panels on top. The colour code assigns deeper blue to more negative, and deeper red to more positive values. Empty (filled) circles indicate that the marginal one-locus equilibrium \tilde{E}_B is unstable (stable) and A_1 can (not) be established under deterministic dynamics. Selection coefficients are a = 0.02 and b = 0.04. (B) The error of $\bar{t}_{QLE,\rho\gg0}$ (Eq. 114 in File S1) relative to \bar{t}_{QLE} for $p_0 = 1/(2N)$. Other details as for panel (A). (C) The error of $\tilde{t}_{QLE,\rho\gg0}$ (Eq. 115 in File S1) relative to $\bar{t}_{QLE,\rho\gg0}$ for $p_0 = 1/(2N)$. Other details as for panel (A). (B) As in panel (A), but for an initial frequency of A_1 equal to $p_0 = 0.005$, independently of N. (E) As in panel (B), but for $p_0 = 0.005$ fixed. (F) As in panel (C), but for $p_0 = 0.005$ fixed. Simulations were as described in Methods. Numerical values for errors represented in panels (A) to (C) and (D) to (F) are shown in Tables S2 to S4 and S6 to S8, respectively.