



Figure S1 Critical migration rates and invasion of A_1 for a monomorphic continent. Dark grey: invasion of A_1 via the unstable marginal equilibrium E_B ; light grey: no invasion of A_1 , stable marginal equilibrium E_B ; white: no invasion, fixation of continental haplotype A_2B_2 and convergence to the monomorphic equilibrium E_C , at which the island population is fixed for the continental haplotype A_2B_2 . Numerical iterations of invasion dynamics were performed at coordinates indicated by grey symbols (File S2). Different symbols show which equilibrium is reached: $\bullet E_+$; $\circ E_B$; $\square E_C$. Initial values for iterations were $\{p_0, q_0, D_0\} = \{0, \hat{q}_B, 0\}$, where \hat{q}_B is the frequency of B_1 at E_B . Iterations were stopped when successive changes in each coordinate became smaller than the numerical machine precision. The thick, almost-vertical line close to $r = 0$ is for the critical migration rate m^* . This curve crosses the r axis at $r = a(b - a)/(1 - 2a + b)$, which is denoted by a vertical dashed line that can hardly be seen. The second vertical dashed line corresponds to $r = a$. (A) $a = 0.01, b = 0.04$. (B) $a = 0.02, b = 0.04$. (C) $a = 0.03, b = 0.04$.