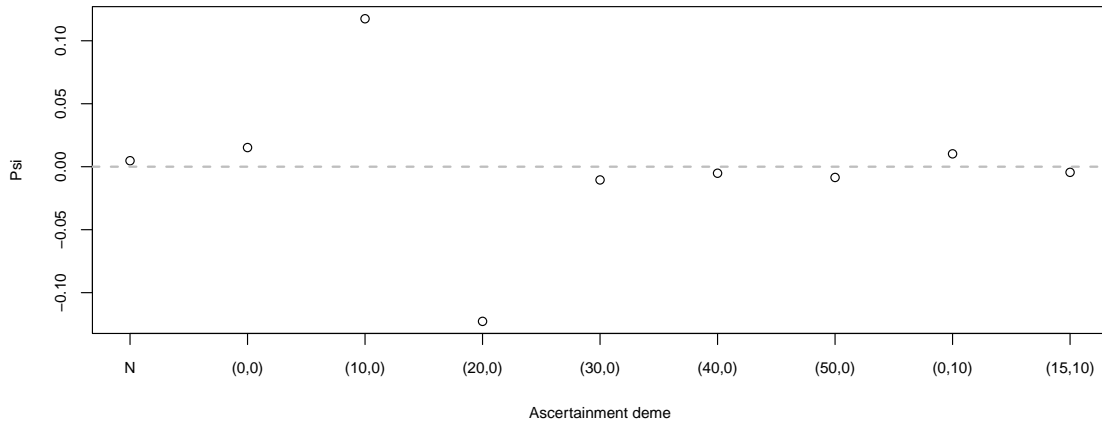


Supplementary Figure 1. Effect of population size variance on the estimation of the origin. We show the effect of variance in population size on our ability to estimate the origin of a range expansion. RMSE increases only slightly if the variance is below 0.1, but increases quite drastically if the variance is higher than that.



Supplementary Figure 2. Effect of ascertainment bias on ψ . We show the effect of strong ascertainment bias in different demes given on the x-axis on ψ calculated between samples taken from coordinates (0,10) and (0,20). N = no ascertainment. Ascertainment has very little effect if it is performed in a deme that is not used in the comparison.