

Figure S1 Mean intensities of PCs3-11. NFBC1966 regions are marked on all plots: WL– WestLapland, CL–Central Lapland, EL– EastLapland, K–Kainuu, NO–North Oulu SO–South Oulu. Four areas, two central and the two northernmost are not assigned to any NFBC1966 region. Only towns with more than ten parents are shown.

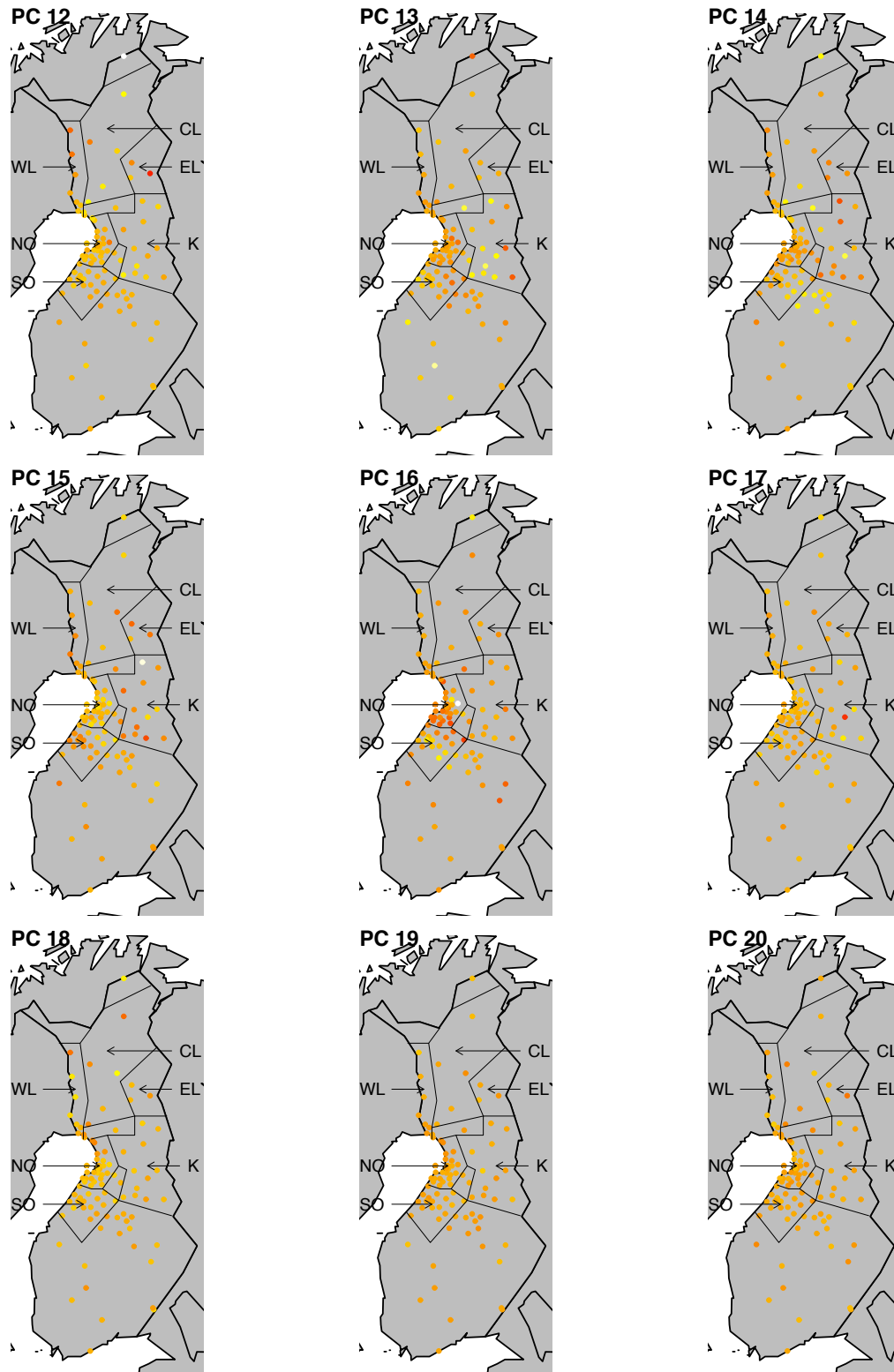


Figure S2 Mean intensities of PCs12-20. NFBC1966 regions are marked on all plots: WL– WestLapland, CL–Central Lapland, EL– EastLapland, K–Kainuu, NO–NorthOulu SO–SouthOulu. Four areas, two central and the two northernmost are not assigned to any NFBC1966 region. Only towns with more than ten parents are shown.

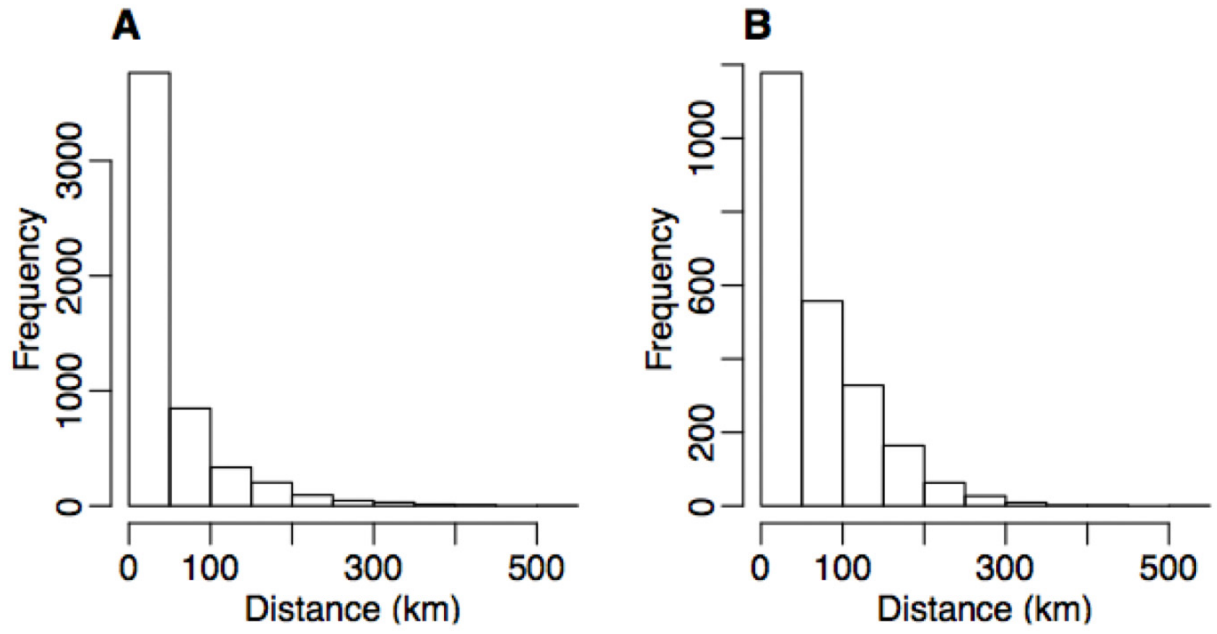


Figure S3 Error distributions in the NFBC1966. Distribution of (A) difference between true and estimated parental birthplace and (B) difference between true and estimated most recent residence using the best-fitting pcLOCATE models.

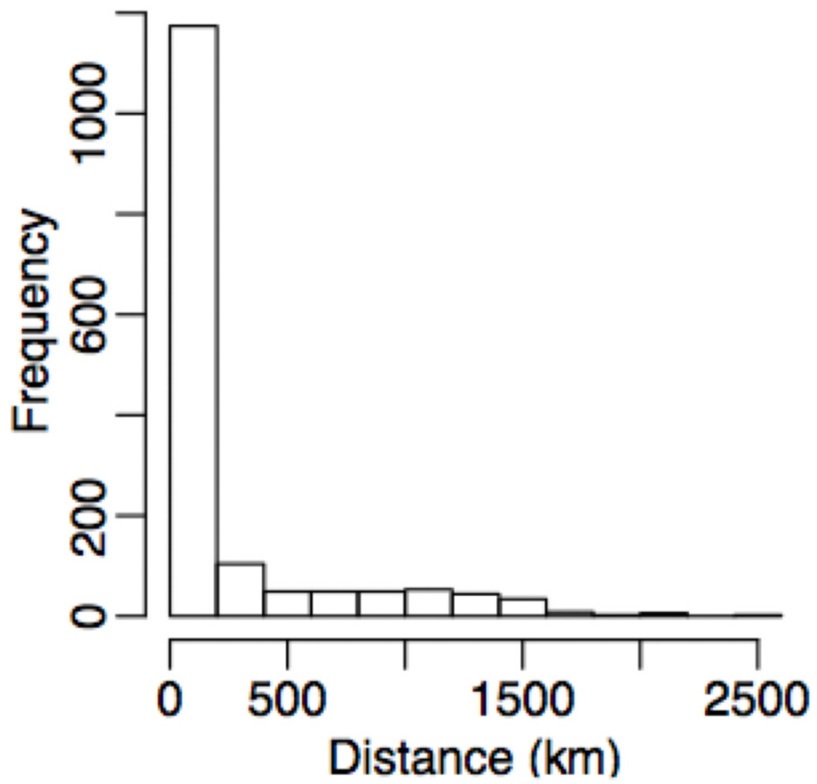


Figure S4 Error distributions in LOLIPOP. Distribution of difference between true and estimated birthplace in the LOLIPOP data using the best-fitting pcLOCATE model.

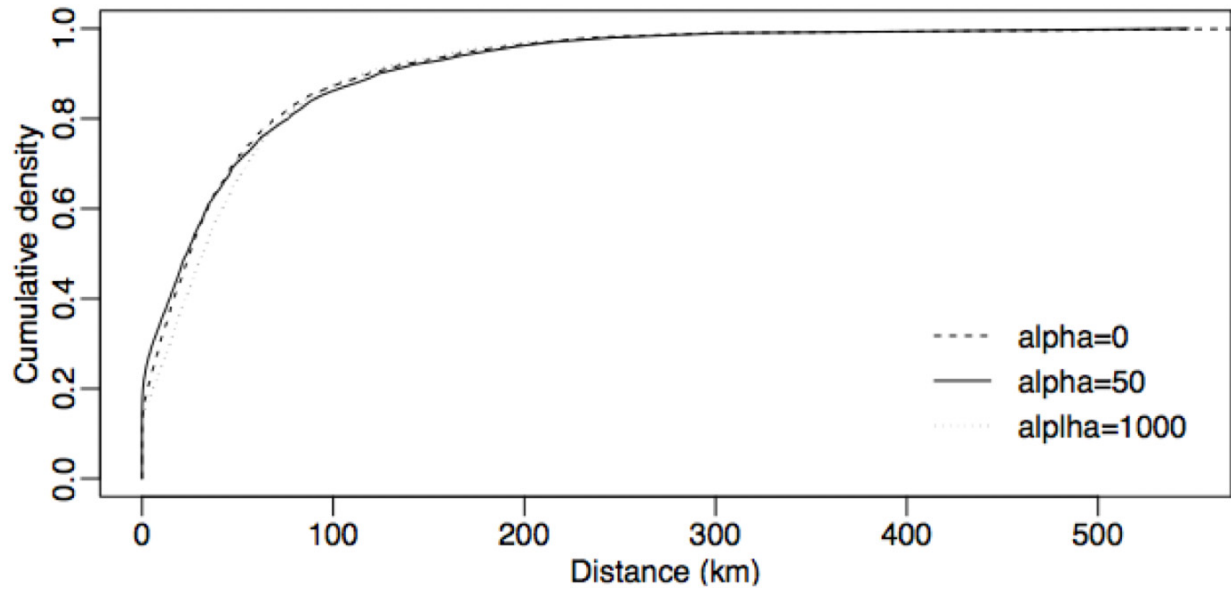


Figure S5 Cumulative distribution of the distance between true and estimated parental birthplace in the NFBC1966 using the best-fitting pcLOCATE models with varying amounts of shrinkage of within town precision, $\alpha=0, 50, 1000$.

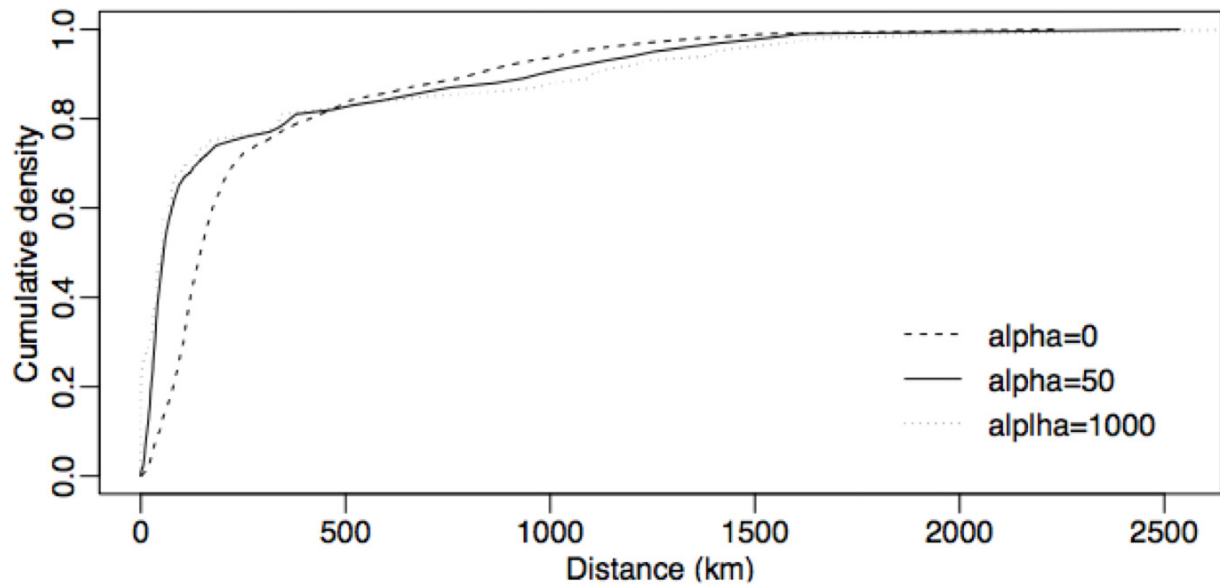


Figure S6 Cumulative distribution of the distance between true and estimated birthplace in the LOLIPOP data using the best-fitting pLOCATE models with varying amounts of shrinkage of within town precision, $\alpha=0, 50, 1000$.