Table S4: AMOVA results for scenarios of panmixia.

Tests of population subdivision	Φ _{ST}	Р
Panmixia across the species' range	0.36	10 ⁻⁵
South (AR + UR + RS + SC + PR + SP + RJS)	0.19	10 ⁻⁵
North (RJN + ES)	0.72	10 ⁻⁵

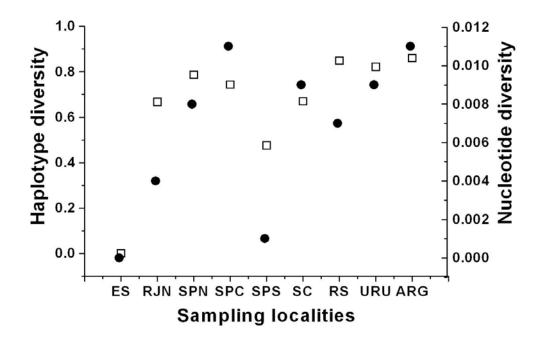
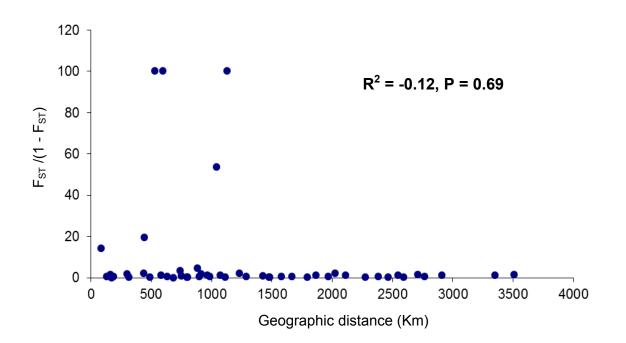


Figure A1: Gradient of genetic diversity across the franciscana's geographic range. Square: haplotype diversity; circle: nucleotide diversity.



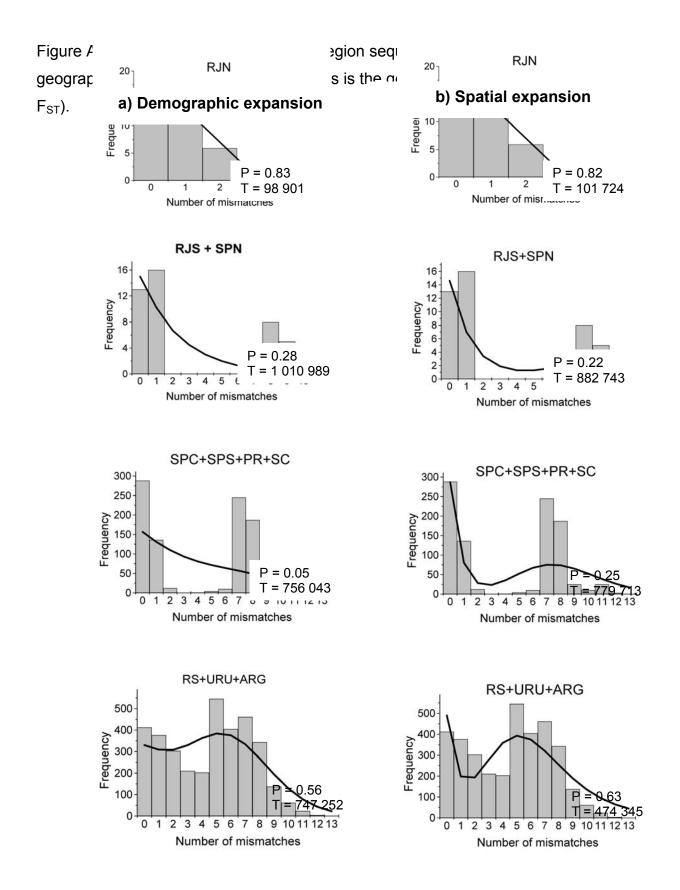
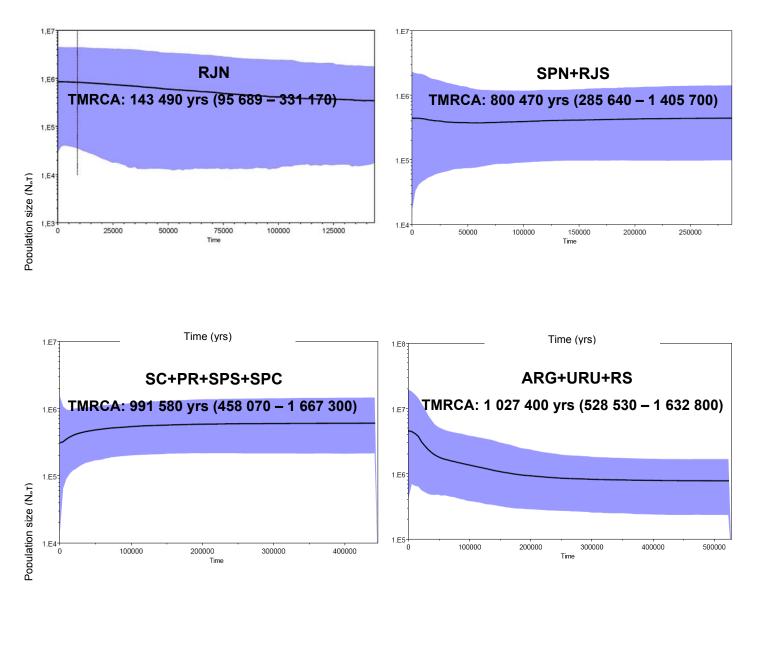


Figure A3: Mismatch distributions of franciscana populations according to the a) sudden demographic expansion model, and b) spatial expansion model. Bars show the observed distribution and the line shows the expected distribution. Observed distributions were not statistically different from those expected under expansion models as indicated by P values of the sum of squared deviations "T" indicates time since



Time (yrs)

Time (yrs)

Figure A4: Bayesian skyline plots (m = 5) derived from franciscana mtDNA control region sequences from four populations: RJN (N = 9), SPN+RJS (N = 10), SC+PR+SPS+SPC (N = 44) and ARG+URU+RS (N = 84). The x axis is in years, and the y axis is equal to N_eT (the product of the effective population size and the generation length in years). The thick solid line is the mean estimate, and the grey area show the 95% highest posterior density (HPD) limits. Estimated times to most recent common ancestor (TMRCA) of the populations, in years, are indicated.