	Description	Latinos mean ± std	Native Hawaiians mean ± std
t <sub>1</sub>	Time of admixture (gen)	24.8 ± 9.1	18.9 ± 2.3
t <sub>2</sub>	Time when indigenous Americans or Polynesians split from Asians (gen)	353 ± 49	411 ± 42
t <sub>3</sub>	Time when Asians split from Europeans (gen)	1018 ± 172	1040 ± 87
t4	Time when Europeans split from Africans (gen)	2094 ± 326	2004 ± 58
r <sub>1</sub>	African admixture proportion	0.107 ± 0.068	0.0
r <sub>2</sub>	European admixture proportion	0.442 ± 0.148	0.198 ± 0.012
r <sub>3</sub>	Asian admixture proportion	0.0	0.334 ± 0.036
Ν	population size at admixture	41579 ± 16850	35682 ± 10656
$N_{\text{afr}}$	African population size	4986 ± 426	NA
Neur	European population size	13341 ± 4701	13388 ± 2388
Nasia	Asian population size	NA	25234 ± 6984
N <sub>ia/pol</sub>	indigenous Americans or Polynesians population size	73170 ± 28939	15695 ± 7392
Naa	Asian population size between $t_2$ and $t_3$	3092 ± 958	2702 ± 795
N <sub>ooa</sub>	European population size between $t_3$ and $t_4$	2948 ± 612	2470 ± 558
Nanc	African population size before t <sub>4</sub>	2846 ± 716	2665 ± 444
gr	Growth rate of admixed population (per gen)	0.132 ± 0.012	0.078 ± 0.009

## Table S1. Latinos and Native Hawaiians parameters estimates and uncertainties.

Estimated quantities corresponding to the results in **Figure 6**. Uncertainty was calculated as the standard deviation cross 20 independent threads, each thread containing 10 distant and selectively neutral trees (see **Methods**). Population size estimates marked as NA are not estimable, because the admixture proportion from such population was estimated to be zero.

	Sequencing data gLike mean ± std	Array data gLike mean ± std	Relative difference
t <sub>1</sub>	40.7 ± 6.9	32.4 ± 2.4	-20.3%
t <sub>2</sub>	71.3 ± 9.3	55.5 ± 12.3	-22.2%
t <sub>3</sub>	8474 ± 483	7321 ± 391	-13.6%
<b>r</b> 1	0.418 ± 0.056	0.425 ± 0.039	1.6%
<b>r</b> <sub>2</sub>	0.680 ± 0.079	0.693 ± 0.065	1.9%
Ν	3946 ± 194	3212 ± 48	-18.6%
NA	20078 ± 3364	16434 ± 1820	-18.1%
NB	3398 ± 1006	2932 ± 1417	-13.7%
Nc	29484 ± 3163	21871 ± 3069	-25.8%
ND	10328 ± 1866	7879 ± 1376	-23.7%
NE	13534 ± 4654	10892 ± 2404	-19.5%

Table S2. Bias in inferred parameters from gLike using tsdate-inferred trees fromsimulated array vs. sequencing data. The same three-way admixture demography as Figure2A was simulated. Genotypes were subsampled from simulated sequencing data to match theempirical MAF distribution in the Latinos genotyping data (Methods). tsdate was used to inferthe ARG based on either the simulated genotype data or the sequencing data. Genealogicaltrees from each ARG were sampled and analyzed by gLike to compare the bias in parameterestimates due to using only a subset of variations typically found on an array.