

Figure S19: Confusion matrices showing the effect sample size has on classification rates. We train and test SURFDAWave, Trendsetter, diploS/HIC, and evolBoosting classifiers to differentiate sweeps and neutrality using sample sizes of n=20, 50, and 200 haploid genomes. SURFDAWave results shown are using Daubechies' least-asymmetric wavelets to estimate spatial distributions of summary statistics and γ and levels are chosen through cross validation (see $Training\ the\ models$). Summary statistics $\hat{\pi}$, H_1 , H_{12} , H_2/H_1 , and frequency of the first, second, third, fourth, and fifth most common haplotypes used by both Trendsetter and SURFDAWave.