

Figure S15: Reconstructed wavelets from regression coefficients (β s) when differentiating among adaptive introgression, sweeps, and neutrality scenarios for summary statistics $\hat{\pi}$, H_1 , H_{12} , H_2/H_1 , and frequencies of first to fifth most common haplotypes for SURFDAWave when $\gamma = 1$. SURFDAWave was trained on simulations of scenarios simulated under demographic specifications for sub-Saharan African YRI demographic history. Note that the wavelet reconstructions for all summary statistics are plotted on the same scale, thereby making the distributions of some summaries difficult to decipher as their magnitudes are relatively small. SURFDAWave results shown are using Daubechies' least-asymmetric wavelets to estimate spatial distributions of summary statistics. Level 1 chosen through cross validation.