



Figure S16 Unfolded site-frequency spectra across sample coverage classes using *Pinus radiata* as the outgroup. Counts were standardized by θ for ease of comparison across sample coverage classes. Goodness-of-fit tests to the expected distribution reveal that all spectra deviate from neutral expectations (class 18: $\chi^2 = 392.01$, $P < 2.20e-16$; class 17: $\chi^2 = 381.01$, $P < 2.20e-16$; class 16: $\chi^2 = 175.17$, $P < 2.20e-16$; class 15: $\chi^2 = 134.08$, $P < 2.20e-16$; class 14: $\chi^2 = 65.87$, $P = 1.88e-09$; class 13: $\chi^2 = 91.33$, $P = 9.13e-15$; class 12: $\chi^2 = 111.84$, $P < 2.20e-16$; class 11: $\chi^2 = 34.49$, $P = 7.32e-05$). The degrees of freedom for each test are the number of bins on the x-axis minus one.