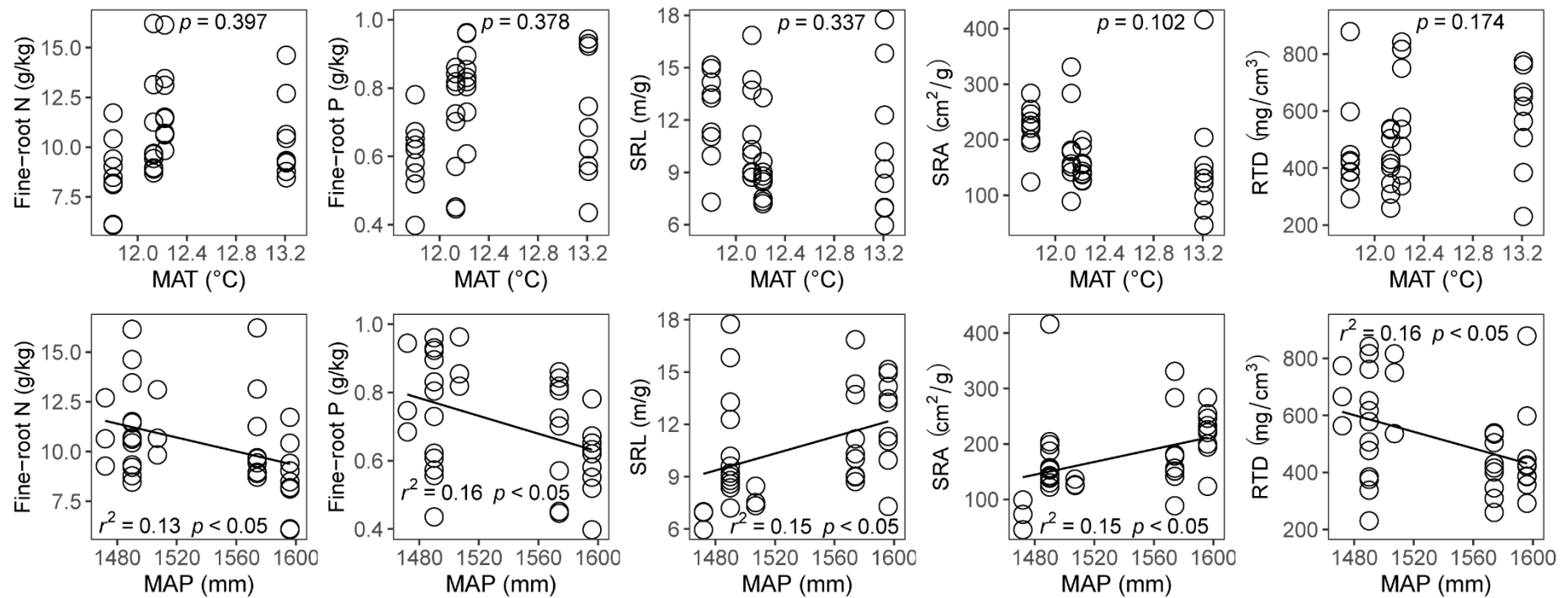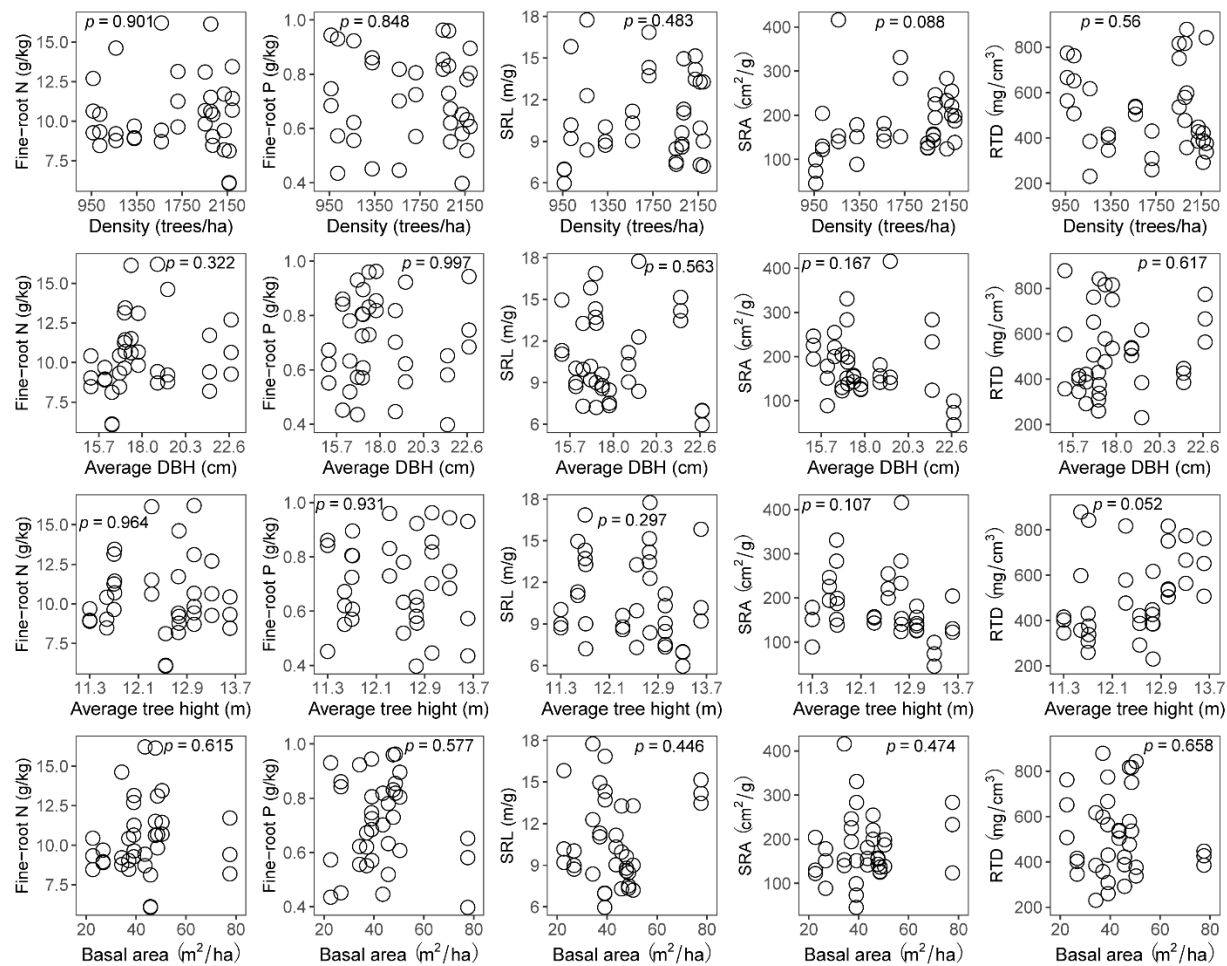**Figure S1.** Location of sampling sites at the Mazongling Nature Reserve, Anhui, China.

Figure S2. Bivariate relationships between fine-root traits and climate factors (MAT and MAP). Solid lines indicate significant standard major axis (SMA) regression lines. Coefficients of determination (r^2) are shown for the SMA regressions using the climate data. MAT, mean annual air temperature; MAP, mean annual precipitation; SRL, specific root length; SRA, specific root area; RTD, root tissue density.

Figure S3. Bivariate relationships between fine-root traits and stand structural factors. DBH, diameter at breast height. SRL, specific root length. SRA, specific root area. RTD, root tissue density.