

## Appendix A

**Table 1: species –  $\alpha$  linear mixed model (equation 1) showing relationship between tree species and  $\alpha$  for all 2472 individual trees. Species are listed from low – high drought tolerance, with the exception of *P. pinaster*, for which drought tolerance index has not been calculated in the literature.**

Species	$\alpha$ (eq. 1)	95% CI
<i>P. sylvestris</i>	0.144	0.131, 0.158
<i>P. nigra</i>	0.138	0.127, 0.149
<i>Q. faginea</i>	0.149	0.140, 0.157
<i>Q. ilex</i>	0.155	0.146, 0.166
<i>P. pinaster</i>	0.168	0.145, 0.192

**Table 2: height –  $\alpha$  linear mixed models for each species (equation 2) showing relationship between tree height and plot CAI and  $\alpha$  for all 2472 individual trees. Species are listed from low – high estimated  $\alpha$ . Significance codes:  $p < 0.001$  ‘\*\*\*’;  $p < 0.01$  ‘\*\*’;  $p < 0.05$  ‘\*’; not significant ‘ns’**

Species	$b$ (eq. 2) (95% CI)	$c$ (eq. 2) (95% CI)	ICC
<i>P. sylvestris</i>	-0.002 <sup>ns</sup> (-0.004, 0.000)	0.134 <sup>ns</sup> (0.010, 0.259)	0.151
<i>P. nigra</i>	-0.005*** (-0.006, -0.004)	0.164** (0.063, 0.263)	0.211
<i>Q. faginea</i>	-0.008*** (-0.010, -0.007)	0.058* (0.016, 0.101)	0.060
<i>Q. ilex</i>	-0.015*** (-0.020, -0.011)	0.113** (0.050, 0.179)	0.070
<i>P. pinaster</i>	-0.006*** (-0.008, -0.004)	0.317* (0.177, 0.453)	0.036