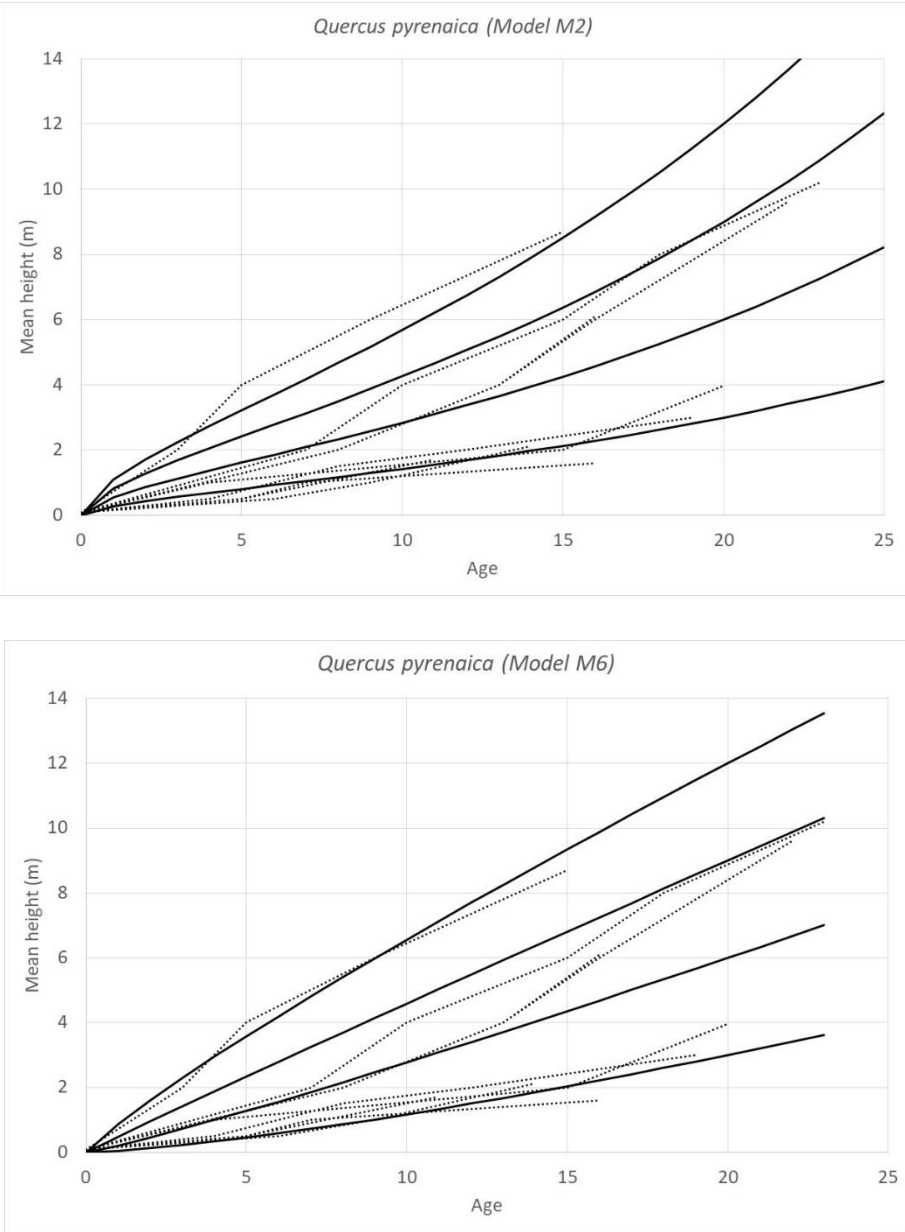


**Supplementary Material. Figure S1. Comparison of raw growth trajectories (dotted lines) and site index curves (solid lines) for *Quercus pyrenaica* fitted using models M2 and M6. Curves are forced to pass at a reference age of 20 years through heights 3, 6, 9 and 12 m**



**Supplementary Material. Table S1.** Parameter estimates and goodness of fit statistics for the biomass model dependent on root collar diameter and height  $AGB = \beta_0 \cdot (RCD^2 H)^{\beta_1} + \varepsilon'''$  for species studied

Species	Parameters	RMSE	$R^2_{adj}$
<i>P. halepensis</i>	$\beta_0$ 0.3061	7.5973	0.8616
	$\beta_1$ 0.6536		
<i>P. nigra</i>	$\beta_0$ 0.0987	10.5774	0.7897
	$\beta_1$ 0.8121		

<i>P. pinaster</i>	$\beta_0$	0.0843	10.3618	0.8840
	$\beta_1$	0.8021		
<i>P. pinea</i>	$\beta_0$	0.1417	7.9859	0.9371
	$\beta_1$	0.7757		
<i>P. radiata</i>	$\beta_0$	0.1355	11.2528	0.9079
	$\beta_1$	0.7473		
<i>P. sylvestris</i>	$\beta_0$	0.0913	3.6985	0.9032
	$\beta_1$	0.7857		
<i>Q. faginea</i>	$\beta_0$	0.2046	4.0640	0.8665
	$\beta_1$	0.7076		
<i>Q. ilex</i>	$\beta_0$	0.0953	10.2007	0.7862
	$\beta_1$	0.9023		
<i>Q. pyrenaica</i>	$\beta_0$	0.0614	0.1970	0.9897
	$\beta_1$	0.8182		
<i>Q. robur+petraea</i>	$\beta_0$	0.0541	6.2047	0.8544
	$\beta_1$	0.8361		
<i>Q. suber</i>	$\beta_0$	0.0300	12.8420	0.8476
	$\beta_1$	0.9648		

*AGB* aboveground biomass (kg); *RCD* root-collar-diameter (cm); *H* total tree height (m);  $\beta_0$  and  $\beta_1$  are the fitted parameters of the model; RMSE root mean square error;  $R^2_{\text{adj}}$  is the adjusted coefficient of determination.