

Supplementary material to the paper:

Do native trees support epiphytic bryophytes diversity better than nonnatives?

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Table S4. Parameters of model estimates testing for effects of tree host species (Tree), tree diameter at breast height (*DBH*), and interaction (marked in table by colons) between tree host species and tree diameter at breast height on bryophyte vegetation characteristics. For host tree species (Tree) *A. negundo* is a reference level (intercept values). *AICc* – *AICc* of full model; *AICc₀* – *AIC* of null (intercept-only) model; *SES* – standardized effect size; *CWM* – community weighted mean; *EIV* – ecological indicator value. Statistically significant results are in **bold**.

Response	Predictor	Estimate	SE	t/z	P	<i>R</i> ²	<i>AICc</i>	<i>AICc₀</i>
Species richness	(Intercept)	1.731	0.152	11.383	<0.001	–	351.300	377.00
	Tree = <i>A. platanoides</i>	0.124	0.215	0.577	0.564			
	Tree = <i>P. cerasifera</i>	0.173	0.220	0.789	0.430			
	Tree = <i>Q. robur</i>	–0.157	0.220	0.789	0.441			
	<i>DBH</i>	0.006	0.007	0.898	0.369			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	–0.008	0.011	–0.753	0.452			
	Tree = <i>P. cerasifera</i> : <i>DBH</i>	0.002	0.010	0.213	0.832			
	Tree = <i>Q. robur</i> : <i>DBH</i>	0.002	0.010	0.192	0.848			
Shannon index	(Intercept)	1.637	0.156	10.479	<0.001	0.263	–24.000	–2.000
	Tree = <i>A. platanoides</i>	0.104	0.219	0.475	0.636			
	Tree = <i>P. cerasifera</i>	0.170	0.240	0.710	0.479			
	Tree = <i>Q. robur</i>	–0.181	0.205	–0.887	0.378			
	<i>DBH</i>	0.005	0.007	0.758	0.450			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	–0.007	0.011	–0.649	0.518			
	Tree = <i>P. cerasifera</i> : <i>DBH</i>	0.001	0.012	0.155	0.877			
	Tree = <i>Q. robur</i> : <i>DBH</i>	0.003	0.010	0.311	0.757			

Functional richness <i>SES</i>	(Intercept)	0.042	0.682	0.062	0.950	0.092	270.800	271.900
	Tree = A. platanoides	1.254	0.957	1.310	0.193			
	Tree = P. cerasifera	1.560	1.048	1.488	0.140			
	Tree = Q. robur	0.671	0.896	0.750	0.455			
	<i>DBH</i>	−0.018	0.034	−0.539	0.591			
	Tree = A. platanoides: <i>DBH</i>	−0.029	0.050	−0.579	0.564			
	Tree = P. cerasifera: <i>DBH</i>	−0.044	0.052	−0.840	0.403			
	Tree = Q. robur : <i>DBH</i>	−0.006	0.047	−0.138	0.890			
Functional dispersion <i>SES</i>	(Intercept)	1.336	0.517	2.585	0.011	0.167	215.400	225.100
	Tree = A. platanoides	−0.750	0.725	−1.035	0.303			
	Tree = P. cerasifera	−0.527	0.795	−0.663	0.508			
	Tree = Q. robur	−0.301	0.679	−0.444	0.657			
	<i>DBH</i>	−0.077	0.026	−2.965	0.003			
	Tree = A. platanoides: <i>DBH</i>	0.071	0.038	1.841	0.068			
	Tree = P. cerasifera: <i>DBH</i>	0.058	0.039	1.459	0.148			
	Tree = Q. robur : <i>DBH</i>	0.026	0.036	0.742	0.460			
Functional divergence <i>SES</i>	(Intercept)	0.361	0.540	0.669	0.505	0.273	224.400	249.900
	Tree = A. platanoides	−0.648	0.759	−0.855	0.395			
	Tree = P. cerasifera	1.036	0.831	1.246	0.216			
	Tree = Q. robur	−0.593	0.710	−0.835	0.406			
	<i>DBH</i>	−0.032	0.027	−1.186	0.239			

	Tree = A. platanoides: <i>DBH</i>	0.052	0.040	1.311	0.193			
	Tree = P. cerasifera: <i>DBH</i>	0.004	0.041	0.112	0.911			
	Tree = Q. robur : <i>DBH</i>	0.031	0.037	0.840	0.403			
<i>CWM</i> of mean	(Intercept)	22.310	1.631	13.671	<0.001	0.325	445.200	476.00
spore diameter	Tree = A. platanoides	−4.706	2.290	−2.055	0.042			
	Tree = P. cerasifera	3.722	2.508	−1.484	0.141			
	Tree = Q. robur	−6.640	2.143	−3.098	0.002			
	<i>DBH</i>	−0.140	0.082	−1.708	0.091			
	Tree = A. platanoides: <i>DBH</i>	0.160	0.121	1.322	0.189			
	Tree = P. cerasifera: <i>DBH</i>	0.183	0.125	1.461	0.147			
	Tree = Q. robur : <i>DBH</i>	0.149	0.114	1.310	0.193			
<i>CWM</i> of mean	(Intercept)	31.496	7.730	4.074	<0.001	0.421	756.300	802.400
shoot size	Tree = A. platanoides	46.018	10.848	4.242	<0.001			
	Tree = P. cerasifera	18.823	11.884	1.079	0.283			
	Tree = Q. robur	31.791	10.152	3.131	0.002			
	<i>DBH</i>	1.167	0.389	3.000	0.003			
	Tree = A. platanoides: <i>DBH</i>	−2.280	0.576	−3.955	<0.001			
	Tree = P. cerasifera: <i>DBH</i>	−1.475	0.594	−2.482	0.014			
	Tree = Q. robur : <i>DBH</i>	−1.615	0.541	−2.982	0.003			
Percentage	Conditional model:							
contribution of	(Intercept)	−1.084	0.588	−1.842	0.065	–	−46.100	−10.000

colonists	Tree = A. platanoides	2.577	0.745	3.457	<0.001			
	Tree = P. cerasifera	0.232	0.809	0.287	0.773			
	Tree = Q. robur	0.319	0.718	0.445	0.656			
	DBH	−0.008	0.029	−0.306	0.759			
	Tree = A. platanoides: DBH	−0.075	0.038	−1.926	0.054			
	Tree = P. cerasifera: DBH	0.012	0.040	0.311	0.756			
	Tree = Q. robur : DBH	−0.004	0.037	−0.129	0.896			
	Zero-inflation model:							
(Intercept)	−2.586	0.391	−6.600	<0.001				
Percentage	(Intercept)	−0.747	0.659	−1.132	0.257	–	−63.300	−12.700
contribution of perennials	Tree = A. platanoides	−0.788	0.888	−0.887	0.374			
	Tree = P. cerasifera	0.840	0.958	0.877	0.380			
	Tree = Q. robur	2.230	0.847	2.631	0.008			
	DBH	0.102	0.034	2.993	0.002			
	Tree = A. platanoides: DBH	−0.040	0.047	−0.853	0.393			
	Tree = P. cerasifera: DBH	−0.111	0.048	−2.290	0.022			
	Tree =Q. robur : DBH	−0.129	0.045	−2.830	0.004			
Percentage	(Intercept)	3.480	0.948	3.668	<0.001	–	−271.400	−257.300
contribution of turf bryophytes	Tree = A. platanoides	−2.622	1.172	−2.237	0.025			
	Tree = P. cerasifera	−4.229	1.309	−3.228	0.001			
	Tree = Q. robur	−2.466	1.144	−2.155	0.031			

	<i>DBH</i>	−0.058	0.047	−1.251	0.210			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	0.130	0.061	2.138	0.032			
	Tree = <i>P. cerasifera</i> : <i>DBH</i>	0.187	0.065	2.848	0.004			
	Tree = <i>Q. robur</i> : <i>DBH</i>	0.064	0.060	1.066	0.286			
Percentage	Conditional model:							
contribution of	(Intercept)	−0.666	0.438	−1.522	0.128	–	−92.800	−74.000
acrocarpous	Tree = <i>A. platanoides</i>	0.923	0.585	1.578	0.114			
bryophytes	Tree = <i>P. cerasifera</i>	−0.112	0.629	−0.179	0.858			
	Tree = <i>Q. robur</i>	0.527	0.546	0.966	0.334			
	<i>DBH</i>	−0.028	0.022	−1.270	0.204			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	−0.013	0.031	−0.417	0.677			
	Tree = <i>P. cerasifera</i> : <i>DBH</i>	0.035	0.031	1.140	0.254			
	Tree = <i>Q. robur</i> : <i>DBH</i>	0.014	0.029	0.495	0.620			
	Zero-inflation model:							
	(Intercept)	−3.178	0.510	−6.228	<0.001			
Percentage	(Intercept)	−1.271	0.449	−2.828	0.004	–	−89.900	−86.100
contribution of	Tree = <i>A. platanoides</i>	0.894	0.627	1.426	0.153			
pleurocarpous	Tree = <i>P. cerasifera</i>	2.004	0.683	2.935	0.003			
bryophytes	Tree = <i>Q. robur</i>	1.314	0.591	2.224	0.026			
	<i>DBH</i>	0.083	0.023	3.608	<0.001			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	−0.059	0.033	−1.772	0.076			

	Tree = <i>P. cerasifera</i> : <i>DBH</i>	−0.115	0.034	−3.337	<0.001			
	Tree = <i>Q. robur</i> : <i>DBH</i>	−0.067	0.032	−2.104	0.035			
<i>CWM</i> of light <i>EIV</i>	(Intercept)	5.561	0.342	16.254	<0.001	0.478	132.800	189.400
	Tree = <i>A. platanoides</i>	1.299	0.480	2.706	0.008			
	Tree = <i>P. cerasifera</i>	0.058	0.525	0.111	0.912			
	Tree = <i>Q. robur</i>	0.969	0.449	2.157	0.033			
	<i>DBH</i>	−0.007	0.017	−0.445	0.657			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	−0.009	0.025	−0.354	0.724			
	Tree = <i>P. cerasifera</i> : <i>DBH</i>	0.039	0.026	1.498	0.137			
	Tree = <i>Q. robur</i> : <i>DBH</i>	−0.009	0.023	−0.380	0.704			
<i>CWM</i> of moisture <i>EIV</i>	(Intercept)	4.553	0.198	22.962	<0.001	0.360	23.700	59.900
	Tree = <i>A. platanoides</i>	0.037	0.278	0.134	0.893			
	Tree = <i>P. cerasifera</i>	−0.192	0.304	−0.632	0.529			
	Tree = <i>Q. robur</i>	−0.477	0.260	−1.833	0.070			
	<i>DBH</i>	−0.023	0.009	2.305	0.023			
	Tree = <i>A. platanoides</i> : <i>DBH</i>	0.012	0.014	0.855	0.394			
	Tree = <i>P. cerasifera</i> : <i>DBH</i>	0.016	0.015	1.054	0.294			
	Tree = <i>Q. robur</i> : <i>DBH</i>	0.011	0.013	0.835	0.405			
<i>CWM</i> of fertility <i>EIV</i>	(Intercept)	4.888	0.333	14.654	<0.001		127.700	189.700
	Tree = <i>A. platanoides</i>	1.978	0.468	4.227	<0.001			
	Tree = <i>P. cerasifera</i>	0.781	0.512	1.524	0.130			

	Tree = Q. robur	−0.354	0.438	−0.809	0.420			
	<i>DBH</i>	0.028	0.016	1.682	0.096			
	Tree = A. platanoides: <i>DBH</i>	−0.071	0.024	−2.868	0.005			
	Tree = P. cerasifera: <i>DBH</i>	−0.040	0.025	−1.565	0.120			
	Tree =Q. robur : <i>DBH</i>	−0.003	0.023	−0.135	0.892			
<i>CWM</i> of reaction	(Intercept)	5.481	0.383	14.305	<0.001	0.392	155.400	196.700
<i>EIV</i>	Tree =A. platanoides	0.590	0.537	1.097	0.275			
	Tree =P. cerasifera	0.721	0.589	1.224	0.224			
	Tree =Q. robur	−0.496	0.503	−0.987	0.326			
	<i>DBH</i>	0.033	0.019	1.742	0.084			
	Tree = A. platanoides: <i>DBH</i>	−0.039	0.028	−1.377	0.171			
	Tree = P. cerasifera: <i>DBH</i>	−0.057	0.029	−1.948	0.054			
	Tree = Q. robur : <i>DBH</i>	−0.028	0.026	−1.071	0.287			