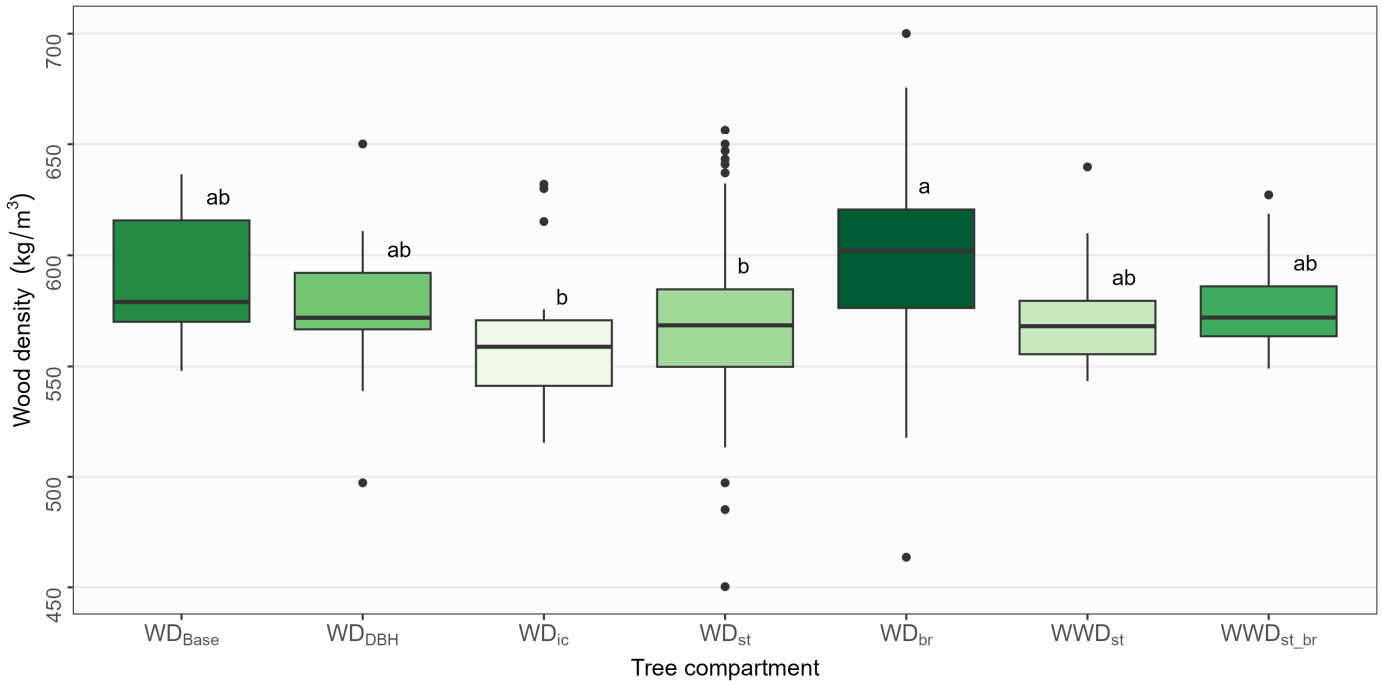
forests

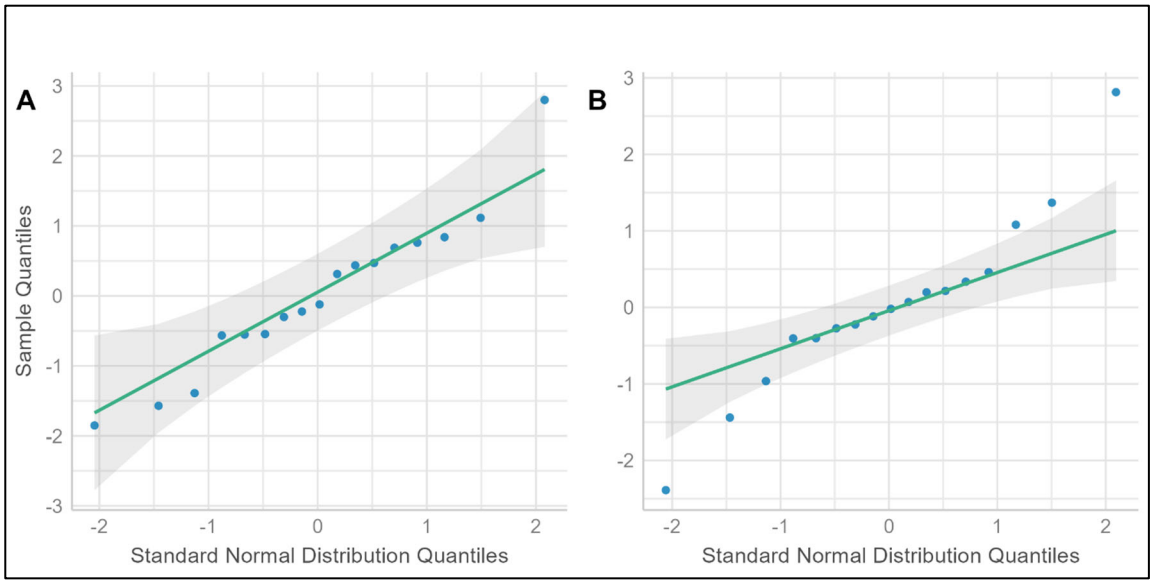
Supplementary Material

Figure S1. Wood densities comparison.



Where, WD_{Base} = density at the base of the tree; WD_{DBH} = density at the level of 1.3 m; WD_{ic} = increment core density; WD_{st} = stem density without weighting; WD_{br} = branches density; WWD_{st} = stem weighted wood density; WWD_{st_br} = density-weighted by stem and branch volume. Different letters represent significant differences at $p < 0.05$ probability level (Tukey's test).

Figure S2. QQ-plot of above ground biomass (i.e., AGB_{total}) estimation using allometric equation from model 1 (**A**) and from model 2 (**B**). The structure: for model 1 - $AGB_{total} = a*DBH^{b}$ and for model 2 - $AGB_{total} = a*DBH^{b}*H^{c}$, where *a*, *b* and *c* are model parameters described in Table 3. DBH and H are diameter at breast height respectively tree height used as independent variables.



95% CI (confidence interval) is provided in light gray.

Table S1. Sampled trees general characteristics and above ground biomass estimation in each compartment.

Tree ID	DBH (cm)	H (m)	L_{crown} (m)	Stump (kg)*	Stem (kg)	Branch (kg)	Leaf (kg)**	AGB (kg)
1	16.8	15.8	10.6	4.0	94.7	29.0	-	127.7
2	18.8	13.3	9.9	3.3	89.8	36.8	-	129.9
3	19.1	16.5	9.6	3.2	137.2	84.3	7.78	232.5
4	20.1	15.6	8.1	2.8	125.9	53.1	-	181.8
5	22.3	15.1	1.6	9.8	141.7	80.5	-	232.0
6	30.1	21.7	11.5	7.5	368.6	42.7	6.28	425.2
7	30.9	20.8	12.1	7.1	491.0	161.9	-	660.0
8	31.0	27.4	18.7	6.4	559.1	103.7	5.52	674.7
9	31.7	22.0	17.6	33.8	425.1	148.7	-	607.5
10	33.5	22.7	12.0	8.9	454.1	130.8	-	593.7
11	35.3	20.6	12.1	26.1	496.3	299.4	-	821.8
12	35.8	26.7	18.6	11.2	670.7	263.0	15.12	960.0
13	36.0	23.4	16.6	8.0	603.3	185.3	13.86	810.5
14	42.0	33.1	9.9	16.8	1409.8	114.6	3.92	1545.0
15	45.5	30.2	16.6	14.4	1388.5	325.0	10.53	1738.4
16	49.2	33.5	24.4	18.5	1611.3	438.1	18.36	2085.9
17	56.5	31.7	25.2	24.0	1970.7	630.3	34.44	2659.5

The mass of tree components is represented in the dry state. *) The dry mass of the stump was estimated based on the density of the sample at the base and with the determined volume. AGB represents the above tree biomass. **). Values for leaf biomass were not recorded for all trees as they were measured during the dormancy period. DBH is the diameter at breast height in *cm*. H is the total tree height in *m*. L_{crown} is the length of tree crown in *m*.