

Supplementary data of Modelling stand biomass fractions in Galician *Eucalyptus globulus* plantations by use of different LiDAR pulse densities

Table 1: Dependent variables

Plot	S	N	d	H_m	H_d	G	V	W_{st}	W_{cr}	W_{abg}
1	225	622	11.9	12.2	13.8	7.2	39.9	19854	4513	24367
2	225	2844	10.0	16.5	22.7	25.9	230.6	107837	16401	124238
3	225	2000	12.9	18.7	24.3	30.6	286.5	140690	20371	161061
4	225	2222	10.1	17.1	24.7	21.2	199.2	93583	13548	107131
5	225	756	14.7	16.2	18.9	13.7	100.8	50810	9003	59813
6	225	2711	9.2	15.2	20.4	20.8	171.8	79279	12936	92215
7	225	2889	10.7	17.9	26.3	30.6	300.0	141536	19687	161223
8	225	756	11.6	11.8	13.3	8.7	44.9	22900	5528	28428
9	225	2311	13.8	20.3	26.9	38.9	385.9	188815	26006	214820
10	225	978	16.5	16.5	29.5	24.8	225.7	119288	17618	136906
11	225	2044	13.0	20.3	26.0	33.1	337.9	166035	22478	188514
12	225	1022	10.9	16.1	24.3	12.2	107.3	53160	8147	61307
13	225	1778	12.0	16.8	22.9	22.5	189.9	91886	14556	106441
14	225	3378	11.4	18.1	24.9	38.6	372.4	175137	24613	199750
15	225	2889	12.4	18.6	24.6	41.4	410.9	199515	27340	226854
16	225	1733	12.2	16.8	20.3	21.9	181.4	86870	13996	100866
17	225	1822	15.2	19.8	29.0	40.6	407.8	210207	28789	238996
18	225	3022	11.8	16.4	23.6	43.8	341.1	173661	30379	204040
19	225	2844	12.2	19.5	24.6	36.3	355.8	167463	23218	190682
20	225	1600	14.7	15.5	25.4	34.2	274.1	145205	24051	169255
21	225	1511	17.5	19.4	36.5	47.0	511.0	276880	35549	312429
22	225	1511	13.9	16.3	24.3	27.6	224.2	115219	18908	134127
23	225	2800	10.2	16.1	20.0	24.7	205.0	94293	15276	109569
24	225	1511	11.0	14.7	26.0	21.0	178.7	94078	14939	109017
25	225	1244	13.3	17.1	20.8	18.7	152.6	74575	12127	86702
26	225	1511	14.1	16.1	20.3	26.3	197.2	100186	17605	117791
27	225	1111	15.3	18.2	24.2	22.5	195.5	98715	15160	113875
28	225	844	19.0	15.6	22.9	30.9	225.8	129915	23683	153598
29	225	1156	13.4	17.5	22.0	18.3	153.5	75811	12037	87848
30	225	1067	15.1	18.2	25.0	21.7	185.4	94044	14716	108760
31	225	1111	15.5	19.4	22.7	22.9	207.8	103831	15366	119197
32	225	1200	14.5	20.2	25.7	20.8	197.3	95685	13646	109330
33	225	1244	12.4	15.1	19.6	15.6	112.5	54539	9890	64429
34	225	1022	10.7	14.6	19.7	10.4	77.6	37632	6694	44325
35	225	1556	12.9	14.4	19.2	22.1	149.5	74897	14328	89226
36	225	800	19.3	22.3	25.9	25.0	244.8	126641	17714	144355
37	225	800	18.4	20.8	24.1	23.2	213.4	110443	16258	126701
38	225	1022	19.2	21.8	25.5	32.2	311.6	162279	22941	185220
39	225	1600	13.8	18.6	24.9	26.3	240.8	117660	17270	134931

S= surface of the plot (m^2), N = number of stems per hectare, d = diameter at breast height outside bark (1.3 m above ground, cm), H_m = mean height (m), H_d = dominant height (m), G = stand basal area ($\text{m}^2 \text{ha}^{-1}$), V = stand volume over bark ($\text{m}^3 \text{ha}^{-1}$), W_{cr} = stand crown biomass (kg ha^{-1}), W_{st} = stand stem biomass (kg ha^{-1}), W_{abg} = stand above ground biomass (kg ha^{-1})

Table 2: LiDAR metrics used as explanatory in some of the selected models

Plot	4 pulses m ⁻² dataset					0.5 pulses m ⁻² dataset				
	h_{60}	h_{70}	h_{75}	h_{90}	h_{95}	h_{60}	h_{70}	h_{75}	h_{90}	h_{95}
1	10.3	10.9	11.1	11.9	12.5	10.0	10.3	10.6	11.7	11.9
2	17.3	17.9	18.2	19.6	20.0	16.6	17.1	17.4	19.3	20.0
3	18.1	18.7	19.2	20.3	21.3	18.2	18.9	19.5	20.4	20.8
4	18.0	18.7	19.0	20.6	21.0	17.4	17.7	18.0	19.3	20.0
5	14.0	14.5	14.8	16.0	16.6	14.3	14.7	14.9	15.9	16.1
6	16.9	17.4	17.6	18.4	19.2	16.3	17.3	17.5	18.7	19.0
7	21.5	22.0	22.3	23.8	24.6	21.1	21.7	22.3	23.4	24.5
8	9.9	10.8	11.4	14.2	15.4	9.7	10.3	10.7	14.1	14.8
9	20.9	21.3	21.6	22.5	23.0	20.1	21.3	21.3	22.2	22.9
10	18.5	19.2	19.7	21.2	21.8	18.3	18.8	19.0	20.4	21.6
11	20.6	21.2	21.6	23.1	24.2	20.2	20.7	21.2	21.6	22.1
12	16.9	18.2	18.8	20.9	21.5	17.1	18.1	18.5	20.8	21.4
13	17.2	18.2	18.5	20.0	20.6	17.0	17.9	18.2	19.9	20.1
14	21.0	21.3	21.5	22.2	22.7	21.0	21.4	21.6	22.3	22.8
15	21.8	22.3	22.6	23.2	23.7	21.9	22.4	22.7	23.1	23.3
16	17.4	17.9	18.1	19.2	19.7	17.1	17.3	17.7	18.7	19.3
17	23.3	24.2	24.8	26.3	27.2	22.9	23.6	24.1	25.0	26.2
18	19.3	20.1	20.5	22.1	22.7	18.4	19.6	20.1	21.8	22.2
19	21.6	21.9	22.2	23.0	23.5	21.2	21.7	22.0	22.7	22.9
20	14.9	19.0	19.8	22.5	23.7	12.9	16.0	18.1	22.3	23.3
21	22.7	25.1	25.8	28.4	29.5	20.3	22.5	24.2	27.1	30.0
22	19.5	20.1	20.5	21.8	22.2	19.7	20.4	20.6	21.7	21.9
23	17.0	17.3	17.4	18.3	18.6	16.9	17.4	17.8	18.5	18.9
24	17.3	18.8	19.4	23.1	23.8	16.9	18.2	18.7	22.2	23.5
25	16.2	16.8	17.2	18.1	18.7	15.6	16.5	17.0	18.0	18.5
26	15.9	16.7	17.0	18.2	18.9	15.6	16.4	17.0	17.9	18.1
27	18.6	19.1	19.5	20.5	21.0	18.3	19.0	19.2	20.5	20.9
28	17.1	18.4	19.6	21.3	22.0	16.4	17.7	18.3	20.6	21.4
29	17.7	18.1	18.4	19.2	19.8	17.5	18.1	18.2	19.0	19.8
30	16.6	17.2	17.7	19.0	19.7	16.1	16.7	17.2	18.9	19.8
31	18.7	19.1	19.4	20.3	20.6	18.5	18.8	19.0	19.8	20.0
32	18.7	19.1	19.3	20.3	20.7	18.1	18.7	18.9	20.1	20.5
33	12.7	13.2	13.5	15.0	16.0	12.9	13.3	13.5	14.7	15.9
34	12.6	13.1	13.3	15.6	16.6	12.2	12.6	13.0	15.1	16.2
35	13.0	13.4	13.8	14.9	16.1	12.9	13.5	13.8	15.4	16.1
36	19.8	20.3	20.8	22.0	22.5	19.7	20.1	20.4	21.6	22.0
37	19.3	19.7	19.9	20.9	21.5	19.3	19.5	19.7	21.1	21.5
38	20.7	21.2	21.5	22.4	22.8	20.5	20.9	21.2	22.0	22.5
39	19.0	19.7	20.0	21.2	21.7	18.8	19.6	19.9	21.1	21.6

h_{60} , h_{70} , h_{75} , h_{90} , and h_{95} are the percentiles of the height distribution of the laser returns for each plot that have been selected in some of the final models (m).