

Supplementary file 6

A comparison of a transferred general diameter/height model and locally constructed models that are calibrated with local field measurements and used for the prediction of diameter at breast height. The accuracy of the predictions is estimated based on the basal area median tree diameter, tree-level volume and plot level total volume.

S6 Predictions of diameter at breast height (DBH) with newly constructed diameter/height models, calibration and comparison with field measurements: absolute (RMSE) and relative root-mean-square error (%RMSE) and absolute and relative bias (%BIAS) values with and without false trees are shown for the entire dataset and by development class. The fixed part of the model describes the results without calibration.

The number of calibration trees	Class	With no false trees				With false trees			
		RMSE	RMSE%	BIAS	%BIAS	RMSE	%RMSE	BIAS	%BIAS
Fixed part									
2	All	3.97	17.79	0.58	2.25	5.09	23.89	-0.03	-0.58
	Young	2.98	18.57	0.18	0.23	4.04	26.29	-0.37	-2.89
	Advanced	3.4	17.22	0.55	2.8	3.9	20.68	0.15	0.89
4	Mature	5.06	17.76	0.86	2.7	6.72	25	0.03	-0.34
	All	3.96	17.74	0.58	2.31	5.08	23.87	-0.01	-0.33
	Young	2.97	18.54	0.23	1.17	4.04	26.28	-0.24	-2.06
6	Advanced	3.4	17.2	0.58	2.95	3.89	20.68	0.23	1.34
	Mature	5.02	17.66	0.8	2.5	6.7	24.96	-0.05	-0.62
	All	3.96	17.78	0.62	2.59	5.08	23.88	0.02	-0.14
8	Young	2.99	18.63	0.34	1.85	4.04	26.29	-0.17	-1.63
	Advanced	3.41	17.29	0.66	3.36	3.9	20.7	0.28	1.62
	Mature	5.02	17.65	0.78	2.43	6.7	24.95	-0.06	-0.63
10	All	3.96	17.79	0.63	2.64	5.08	23.88	0.03	-0.08
	Young	2.99	18.66	0.38	2.06	4.04	26.3	-0.14	-1.42
	Advanced	3.42	17.31	0.67	3.47	3.9	20.71	0.3	1.73
Calibrated	Mature	5.01	17.64	0.74	2.33	6.7	24.95	-0.08	-0.72
	All	3.97	17.83	0.67	2.86	5.09	23.91	0.07	0.15
	Young	3	18.73	0.43	2.42	4.05	26.33	-0.06	-0.91
2	Advanced	3.43	17.38	0.72	3.73	3.91	20.76	0.35	2.06
	Mature	5.01	17.65	0.77	2.41	6.7	24.96	-0.09	-0.73
	All	3.74	16.71	0.54	2.25	4.90	22.95	-0.07	-0.55
4	Young	2.79	17.33	0.30	1.70	3.84	24.97	-0.20	-1.68
	Advanced	3.22	16.26	0.49	2.48	3.79	20.06	0.08	0.43
	Mature	4.76	16.69	0.74	3.59	6.48	24.04	-0.10	-0.64
6	All	3.59	16.02	0.57	2.49	4.76	22.26	-0.04	-0.25
	Young	2.68	16.59	0.46	2.69	3.72	24.16	-0.05	-0.59
	Advanced	3.10	15.64	0.51	2.59	3.68	19.50	0.12	0.62
8	Mature	4.55	15.96	0.69	2.29	6.29	23.32	-0.16	-0.75
	All	3.51	15.70	0.57	2.58	4.70	21.98	-0.02	-0.13
	Young	2.63	16.28	0.53	3.15	3.67	23.84	0.01	-0.18
10	Advanced	3.04	15.35	0.51	2.61	3.64	19.30	0.13	0.64
	Mature	4.45	15.62	0.65	2.20	6.21	23.00	-0.16	-0.74
	All	3.46	15.48	0.56	2.55	4.66	21.78	-0.03	-0.14
2	Young	2.59	16.06	0.54	3.26	3.62	23.56	0.04	0.00
	Advanced	3.00	15.17	0.50	2.59	3.61	19.16	0.12	0.60
	Mature	4.38	15.37	0.62	2.08	6.15	22.79	-0.19	-0.82
4	All	3.43	15.34	0.57	2.61	4.63	21.65	-0.03	-0.12
	Young	2.57	15.91	0.57	3.48	3.60	23.40	0.04	0.03
	Advanced	2.98	15.05	0.51	2.62	3.59	19.07	0.13	0.67
6	Mature	4.34	15.23	0.61	2.07	6.12	22.66	-0.21	-0.86