

Supplementary file 9

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.

S9 Prediction of the diameter at breast height (DBH) with newly constructed diameter/height models, calibration, calculation of plot volume and comparison of the results 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 trees	Class	With no false trees				With false trees			
		RMSE	RMSE%	BIAS	%BIAS	RMSE	%RMSE	BIAS	%BIAS
Fixed part									
2	All	71.2	29.6	58.18	24.19	68.34	28.41	53.01	22.04
	Young	54.79	34.27	48.07	30.07	50.62	31.66	43.82	27.41
	Advanced	51.87	28.72	44.03	24.38	50.08	27.73	42.22	23.38
4	Mature	90.86	26.76	76	22.38	87.82	25.86	67.51	19.88
	All	71.02	29.53	58.29	24.24	68.3	28.4	53.33	22.17
	Young	55.7	34.84	49.11	30.72	51.85	32.43	45.24	28.29
6	Advanced	52.32	28.97	44.65	24.72	50.78	28.11	43.13	23.88
	Mature	90.05	26.52	75.11	22.12	87.05	25.63	66.68	19.63
	All	70.61	29.36	57.99	24.11	68.11	28.32	53.17	22.11
8	Young	56.67	35.45	50.19	31.39	52.65	32.93	46.13	28.85
	Advanced	52.7	29.15	45.15	25	51.12	28.3	43.58	24.13
	Mature	88.71	26.12	73.31	21.59	86.22	25.39	65.35	19.24
10	All	70.56	29.34	58.05	24.13	68.2	28.35	53.35	22.18
	Young	57.52	35.98	51.12	31.98	53.49	33.46	47.07	29.44
	Advanced	53.16	29.43	45.71	25.31	51.62	28.58	44.19	24.47
Calibrated	Mature	88.08	25.94	72.4	21.32	85.85	25.28	64.71	19.06
	All	70.83	29.45	58.39	24.28	68.27	28.39	53.45	22.22
	Young	57.87	36.2	51.51	32.22	53.89	33.71	47.51	29.72
2	Advanced	53.48	29.61	46.07	25.51	51.87	28.72	44.49	24.63
	Mature	88.32	26.01	72.71	21.41	85.73	25.24	64.45	18.98
	All	70.85	29.46	58.97	24.52	67.72	28.16	54.27	22.56
4	Young	58.17	36.39	51.35	32.12	53.37	33.39	46.98	29.39
	Advanced	53.48	29.61	44.75	24.78	51.56	28.55	42.72	23.65
	Mature	87.92	25.89	75.28	22.17	84.72	24.95	68.22	20.09
6	All	69.63	28.95	59.15	24.59	66.09	27.48	54.3	22.58
	Young	59.53	37.24	52.96	33.13	55.13	34.48	49.06	30.69
	Advanced	53.29	29.51	44.91	24.86	52.18	28.89	43.39	24.02
8	Mature	85.17	25.08	74.59	21.97	80.59	23.73	66.43	19.56
	All	69.41	28.86	59.3	24.65	67.25	27.25	54.37	22.6
	Young	60.8	38.01	54.09	33.83	56.3	35.22	50.31	31.47
10	Advanced	53.75	29.76	45.31	25.09	52.15	28.88	43.31	23.98
	Mature	84	24.74	73.92	21.77	79.05	23.28	65.88	19.4
	All	69.12	28.74	59.34	24.67	65.28	27.14	54.54	22.68
2	Young	61.03	38.17	54.44	34.05	56.91	35.6	50.78	31.76
	Advanced	53.73	29.75	45.29	25.08	52.44	29.04	43.6	24.14
	Mature	83.36	24.55	73.82	21.74	78.12	23.01	65.77	19.37
4	All	68.94	28.66	59.31	24.66	65.19	27.1	54.69	22.74
	Young	61.62	38.54	54.82	34.29	57.2	35.78	51.14	31.99
	Advanced	53.82	29.8	45.41	25.14	52.38	29	43.64	24.16
6	Mature	82.7	24.24	73.41	21.62	77.85	22.93	65.88	19.4