

Appendix 1 Data distribution of the soil variables

	Min.	1st. Ou.	Median	Mean	3rd Ou.	Max.
Soil Moisture	0.80	4.60	6.20	7.45	8.20	43.10
PAR-ratio	1.49	16.84	21.85	30.58	38.98	100.00
pH	2.55	2.83	2.93	2.97	3.08	4.03
pHBC	14.69	47.28	61.89	62.07	80.14	96.34
Soil N (0–1.5 cm)	0.12	3.34	4.86	4.95	6.37	17.21
Soil C (0–1.5 cm)	8.99	73.11	104.01	109.19	134.96	334.31
Soil Al (0–1.5 cm)	0.31	6.63	10.74	11.31	14.67	40.30
Soil Ca (0–1.5 cm)	0.08	0.94	1.11	1.18	1.36	3.83
Soil Fe (0–1.5 cm)	1.35	5.09	5.37	5.82	5.68	20.89
Soil K (0–1.5 cm)	0.84	1.73	2.22	2.83	3.08	15.24
Soil Mn (0–1.5 cm)	0.01	0.06	0.07	0.09	0.09	0.35
Soil P (0–1.5 cm)	0.08	0.27	0.38	0.40	0.50	1.27
Soil S (0–1.5 cm)	0.07	0.46	0.61	0.70	0.88	1.94
Soil C:N ratio (0–1.5 cm)	0.00	15.55	21.72	25.41	28.86	192.49
Soil N:P ratio (0–1.5 cm)	0.00	8.80	12.14	14.70	17.21	75.39
Soil N (1.5–3 cm)	0.61	1.43	1.74	2.56	2.71	13.91
Soil C (1.5–3 cm)	2.65	21.21	39.39	57.63	76.93	292.81
Soil Al (1.5–3 cm)	0.14	9.31	13.05	12.62	15.97	34.50
Soil Ca (1.5–3 cm)	0.55	1.14	1.22	1.26	1.32	3.68
Soil Fe (1.5–3 cm)	0.07	3.47	5.17	5.91	7.72	15.93
Soil K (1.5–3 cm)	0.78	2.45	3.30	3.36	4.21	7.15
Soil Mn (1.5–3 cm)	0.00	0.02	0.03	0.04	0.05	0.23
Soil P (1.5–3 cm)	0.01	0.22	0.29	0.31	0.38	1.20
Soil S (1.5–3 cm)	0.09	0.27	0.38	0.48	0.62	1.62
Soil C:N ratio (1.5–3 cm)	0.00	10.00	20.65	27.28	31.71	140.59
Soil N:P ratio (1.5–3 cm)	0.00	5.03	6.77	10.51	10.13	244.69

Appendix 2 Data distribution of the trait data of *Abies alba* and *Quercus robur*

	Min.	1st. Ou.	Median	Mean	3rd Ou.	Max.
<i>Abies alba</i> traits						
Aboveground Biomass	0.04	0.18	0.29	0.36	0.46	1.94
Aboveground Partitioning	0.07	1.28	1.55	1.55	1.82	2.97
SLA	0.01	10.70	11.60	11.76	12.72	19.72
F_v/F_m	0.00	0.76	0.81	0.77	0.83	0.87
Foilar N	2.83	10.15	11.52	11.68	13.06	20.89
Foilar C	477.20	494.50	498.10	497.90	501.50	510.10
Foilar Al	0.02	0.11	0.14	0.15	0.19	0.50
Foilar Ca	0.29	2.18	3.11	3.20	4.02	7.62
Foilar Fe	0.00	0.04	0.05	0.05	0.06	0.13
Foilar K	0.12	1.96	3.12	3.23	4.31	9.70
Foilar Mn	0.01	0.69	1.18	1.23	1.73	3.52
Foilar P	0.18	0.47	0.55	0.55	0.63	1.79
Foilar S	0.10	0.66	0.78	0.78	0.89	1.52
Foilar C:N	23.67	38.16	43.29	44.75	49.10	173.15
Foilar N:P	6.58	18.03	21.00	21.80	24.72	45.05
<i>Quercus robur</i> traits						
Aboveground Biomass	0.47	3.14	6.90	9.77	12.99	66.97
Aboveground Partitioning	0.16	0.48	0.62	0.64	0.77	1.60
SLA	10.25	13.70	15.05	15.27	16.73	23.55
F_v/F_m	0.11	0.79	0.82	0.80	0.83	0.86
Foilar N	3.46	15.29	18.88	18.93	22.02	36.29
Foilar C	460.50	476.70	483.40	482.20	488.00	497.50
Foilar Al	0.01	0.06	0.07	0.07	0.09	0.20
Foilar Ca	2.04	4.19	5.03	4.96	5.78	7.09
Foilar Fe	0.02	0.07	0.09	0.08	0.10	0.13
Foilar K	1.29	4.66	5.86	5.61	6.74	7.66
Foilar Mn	0.01	0.42	0.60	0.65	0.85	1.77
Foilar P	0.58	0.77	0.94	0.97	1.16	1.61
Foilar S	0.91	1.29	1.41	1.41	1.51	2.19
Foilar C:N	13.14	21.92	25.49	28.12	31.44	133.19
Foilar N:P	3.15	15.33	19.71	20.79	25.09	48.43

Appendix 3 Growth increments of *A. alba* of the two survey sites.

