



**Supplement – Figure S2.**  $\delta^{15}\text{N}$  in the leaves of *Betula* spp. (light green circles) and *Pinus sylvestris* (dark green circles) depending on the  $\delta^{15}\text{N}$  and  $\delta^{13}\text{C}$  in the litter.

**Table S1.**

N	Zone	Plot number	Distance from the KCS, km	Litter pollution index, times	Litter pollution index (Ln)	Litter thickness, cm	Root occurrence in litter	$\delta^{13}\text{C}$ Betula	$\delta^{15}\text{N}$ Betula	$\delta^{13}\text{C}$ Pinus	$\delta^{15}\text{N}$ Pinus	$\delta^{13}\text{C}$ litter	$\delta^{15}\text{N}$ litter	$\delta^{13}\text{C}$ humus	$\delta^{15}\text{N}$ humus
1	ISR	31	37.20	3.25	1.18	4.00	1.00	-29.93	-4.33	-29.82	-4.05	-27.07	1.22	-26.92	2.06
2	ISR	37K	37.50	1.96	0.67	5.45	1.00	-30.32	-4.93	-29.59	-6.06	-27.23	-3.08	-25.26	-0.32
3	ISR	221\37	50.00	1.18	0.16	2.60	0.90	-31.26	-3.41	-29.78	-3.36	-27.16	0.86	-26.91	2.07
4	ISR	221\28	50.00	1.09	0.09	3.55	0.90	-30.75	-3.51	-29.46	-3.75	-27.68	-2.59	-26.06	-0.48
5	ISR	207\18	48.40	1.29	0.26	5.50	1.00	-31.02	-1.18	-29.54	-2.28	-27.92	-0.26	-26.27	2.88
6	ISR	204\36	48.50	1.41	0.34	3.50	0.90	-31.23	-2.39	-29.92	-1.83	-27.34	-1.68	-25.80	1.28
7	ISR	204\7	48.10	1.59	0.46	3.70	0.90	-29.86	-3.36	-29.62	-4.20	-27.71	-3.00	-24.88	0.60
8	ISR	199\26	47.70	1.67	0.51	5.55	1.00	-30.57	-0.58	-29.74	-2.25	-29.02	0.07	-26.57	2.47
9	ISR	199\12	47.50	1.67	0.51	3.96	1.00	-31.11	-3.55	-29.69	-3.41	-27.33	-1.87	-25.18	-0.56
10	ISR	198\22	48.50	1.49	0.40	6.90	1.00	-31.48	-0.56	-28.69	1.60	-27.31	-0.42	-26.13	0.76
11	ISR	78\13	32.80	2.28	0.82	3.10	0.90	-28.91	-0.48			-27.72	-0.72	-26.40	1.57
12	ISR	77\20	33.00	3.09	1.13	2.40	1.00	-29.93	-1.51			-28.01	-1.49	-26.23	-0.10

13	KCS	<b>186\1</b>	6.60	55.57	4.02	3.90	0.90	-30.07	1.71	-29.72	1.24	-29.40	0.23	-25.16	2.19
14	KCS	<b>186\4</b>	7.00	62.09	4.13	4.25	0.60	-30.45	-2.21	-30.11	-0.03	-27.45	-1.26	-24.97	1.37
15	KCS	<b>186\4K</b>	7.00	107.19	4.67	3.90	0.60	-30.70	-2.46	-29.42	1.08	-28.11	-1.18	-25.65	2.01
16	KCS	<b>186\16</b>	7.10	51.90	3.95	2.85	0.25	-28.73	1.47	-30.95	1.90	-29.96	-0.43	-25.36	1.26
17	KCS	<b>186\31</b>	6.40	109.18	4.69	5.90	0.40	-30.77	-1.43	-31.47	0.47	-27.51	-0.03	-25.37	2.35
18	KCS	<b>186\35</b>	6.50	116.78	4.76	9.50	0.40	-30.89	-2.26	-28.92	-0.34	-28.42	-1.92	-25.14	0.78
19	KCS	<b>186\37</b>	6.10	159.11	5.07	8.60	0.25	-33.28	0.20	-31.53	0.16	-29.80	-1.85	-25.82	1.09
20	KCS	<b>185\39</b>	5.60	111.06	4.71	2.65	0.55	-30.30	-0.07			-29.18	-0.35	-26.21	2.40
21	KCS	<b>175\57</b>	8.80	33.02	3.50	3.30	0.75	-31.77	0.16	-29.57	-2.09	-29.55	-1.65	-26.05	1.89
22	KCS	<b>175\56</b>	8.60	67.95	4.22	5.30	0.85	-31.30	-0.80	-29.36	-0.64	-28.40	-1.42	-24.84	1.19
23	KCS	<b>175\40</b>	8.60	50.69	3.93	5.00	0.95	-31.43	-1.91	-31.04	-1.63	-28.81	-0.93	-25.12	2.13
24	KCS	<b>175\39</b>	8.50	32.79	3.49	3.45	0.80	-31.29	-1.43	-31.01	-3.71	-28.24	-1.45	-25.66	1.38
25	KCS	<b>175\37</b>	9.10	49.90	3.91	2.80	0.95	-32.14	-1.78	-30.16	-1.32	-28.71	-1.50	-26.42	1.69
26	KCS	<b>166\50</b>	9.10	16.70	2.82	3.75	1.00	-32.58	-1.09	-29.56	-2.46	-29.48	-2.43	-24.74	0.62
27	KCS	<b>166\49</b>	9.50	40.45	3.70	6.20	1.00	-30.98	-1.31	-28.53	-1.47	-27.89	-1.66	-25.76	1.71