

Supplementary material

Vertical Distribution of Mercury in Forest Soils and Its Transfer to Edible Mushrooms in Relation to Tree Species

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Table S1. Coefficients of the fixed effects in mixed effects models of Hg contents in different soil depths, calculated separately for the Norway spruce stands; the parameters are significant at $p < 0.05$ in ANOVA using the Satterthwaite's method; 'n.s.' no significant effect; 'NA' not applicable.

Depth	C _{tot}	N _{tot}	S _{tot}	C:N	pH	Sand	Silt	Clay	Al _o	Fe _o
F+H	0.524	0.601	0.581	n.s.	-0.602	NA	NA	NA	NA	NA
0–2	0.725	0.616	0.781	n.s.	-0.415	n.s.	n.s.	n.s.	n.s.	n.s.
2–10	0.800	0.824	0.756	n.s.	n.s.	-0.545	0.555	n.s.	0.740	0.647
10–20	0.821 a	0.729	0.753	n.s.	n.s.	n.s.	n.s.	n.s.	0.848	0.797 a
20–30	0.847 a	0.691	0.731	n.s.	n.s.	n.s.	n.s.	n.s.	0.818	0.675

^a Random effects failed to fit (singular model)

Table S2. Coefficients of the fixed effects in mixed effects models of Hg contents in different soil depths, separately for European beech stands; the parameters are significant at $p < 0.05$ in ANOVA using the Satterthwaite's method; 'n.s.' no significant effect; 'NA' not applicable.

Depth	C _{tot}	N _{tot}	S _{tot}	C:N	pH	Sand	Silt	Clay	Al _o	Fe _o
FH	n.s.	n.s.	n.s.	n.s.	-0.447	NA	NA	NA	NA	NA
0–2	0.474	0.641	0.568	n.s.	-0.487	n.s.	n.s.	n.s.	n.s.	n.s.
2–10	0.613	0.853	0.661 a	n.s.	-0.438	-0.512	0.532	n.s.	n.s.	0.462 a
10–20	0.835	0.821	0.605	n.s.	-0.318	-0.537	0.641	-0.372	n.s.	0.748 a
20–30	0.977	0.981	0.917	n.s.	-0.452	-0.584	0.643 a	-0.399	n.s.	0.585 a

^a Random effects failed to fit (singular model)