Balancing sampling effort and representativeness for assessing species composition of Enchytraeidae in different habitats

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Supplementary material

Species accumulation curves of single sites

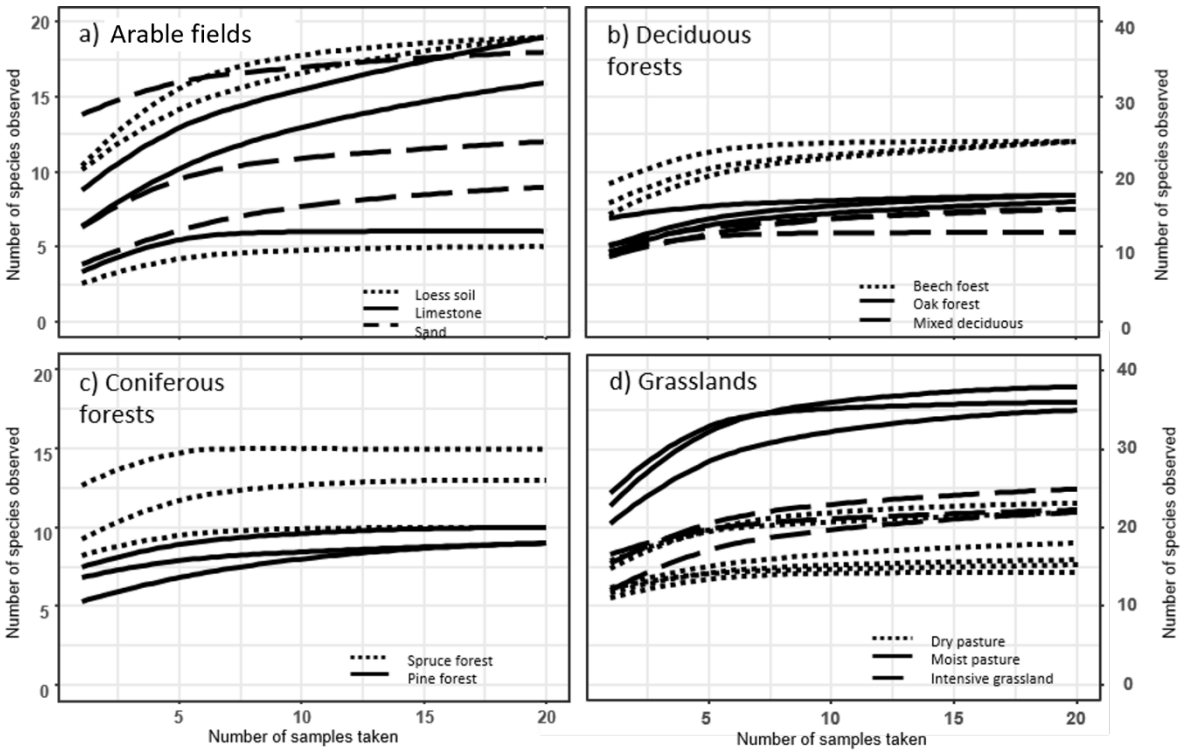


Figure S1 Species accumulation curves of single sampling sites including all species, variance borders not shown. a) Arable fields separated according to bedrock (dotted lines = Loess, solid line = limestone, dashed line = sand). b) Deciduous forest sites separated according to main tree canopy species (dotted line = beech, solid line = oak, dashed = mixed deciduous forest). c) Coniferous forest sites separated according to main tree species (dotted line = spruce, solid line = pine). d) Grassland sites separated according to management (dotted line = dry pasture, solid line = moist pasture, dashed line = intensive grassland/meadow). Please note the different y-axis scales.

Supplementary Material: Scheunemann, N., Beylich, A., & Schmelz, R. M. (2026). Balancing sampling effort and representativeness for assessing Enchytraeidae community structure in different habitats. Soil Organisms 98(SI 2). https://soil-organisms.org/SO/article/view/514

Species accumulation curves of broadleaved forest sites

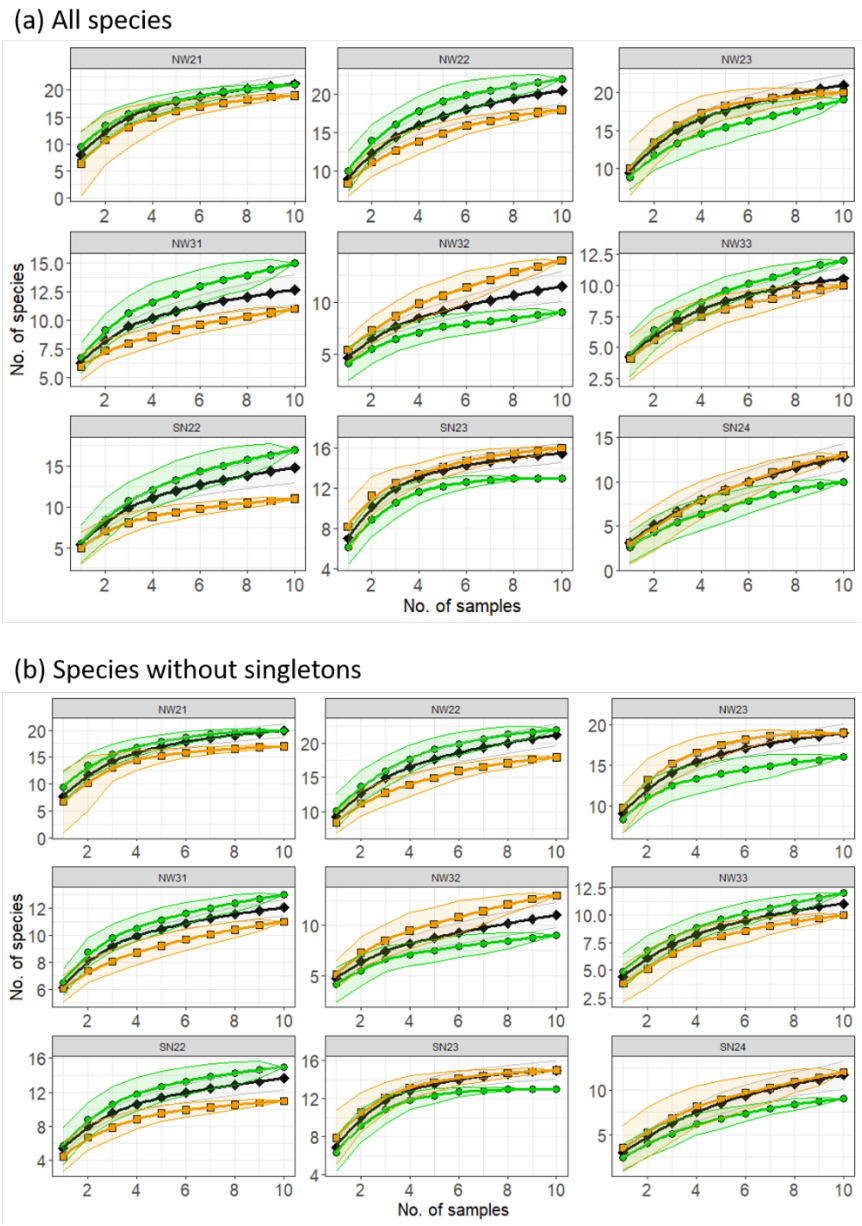


Figure S2 Species accumulation curves of single sampling sites, all broadleaved forests, ± SD. a) Results including all species observed at the respective site; b) all species except singletons. Green: Soil cores taken only in spring; orange: soil cores taken only in fall; grey: mean of 10 soil cores taken randomly from spring and fall (20 permutations). Site names are taken from Toschki et al. (2021); for information on single sites please refer to that publication. Please note the different y-axis scales.

Species accumulation curves of coniferous forest sites

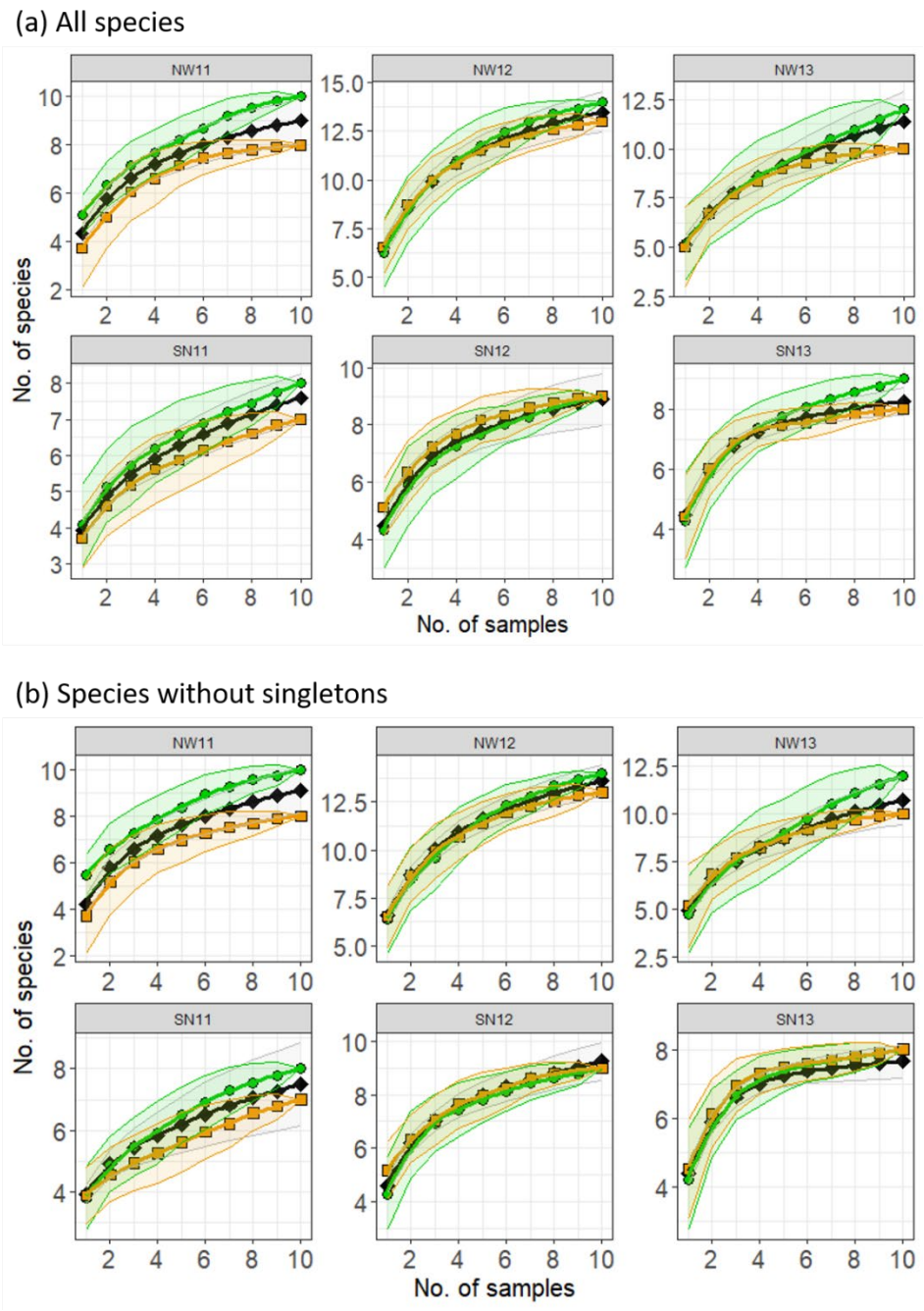


Figure S3 Species accumulation curves of single sampling sites, all coniferous forests, ± SD. a) Results including all species observed at the respective site; b) all species except singletons. Green: Soil cores taken only in spring; orange: soil cores taken only in fall; grey: mean of 10 soil cores taken randomly from spring and fall (20 permutations). Site names are taken from Toschki et al. (2021); for information on single sites please refer to that publication. Please note the different y-axis scales.

Species accumulation curves of arable fields

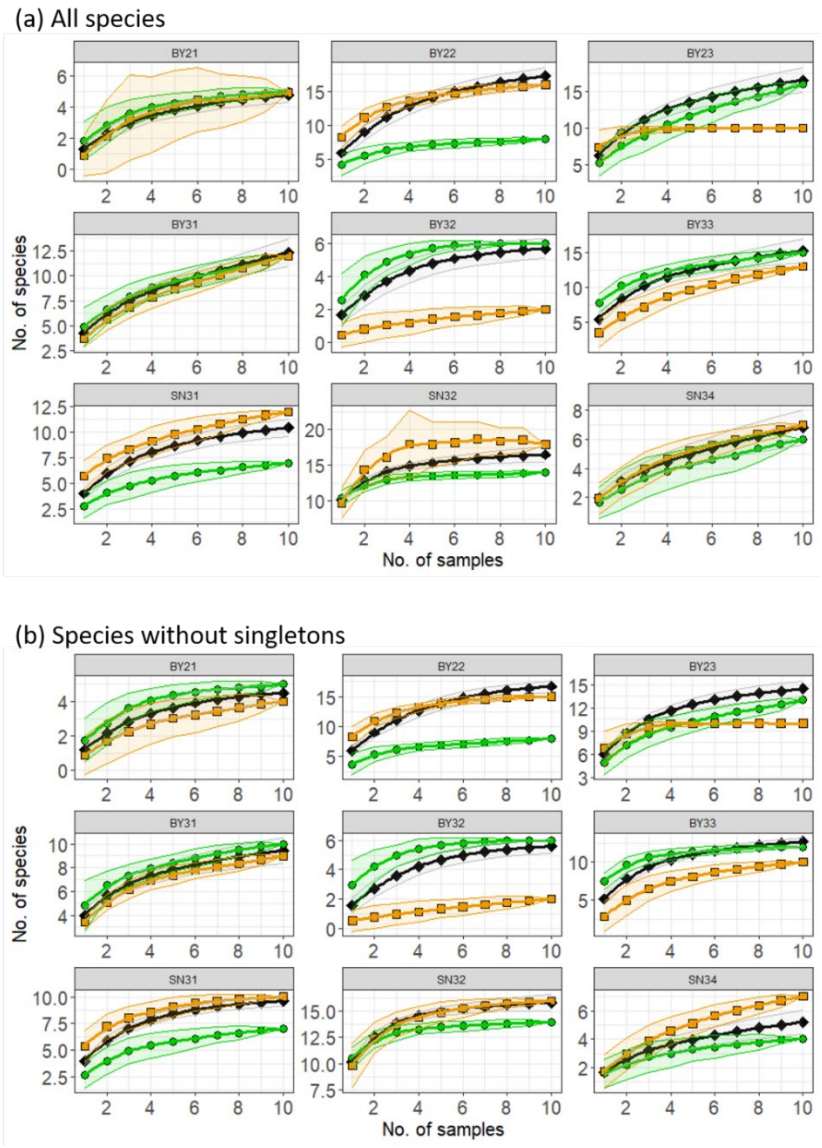


Figure S4 Species accumulation curves of single sampling sites, all arable fields, ± SD. a) Results including all species observed at the respective site; b) all species except singletons. Green: Soil cores taken only in spring; orange: soil cores taken only in fall; grey: mean of 10 soil cores taken randomly from spring and fall (20 permutations). Site names are taken from Toschki et al. (2021); for information on single sites please refer to that publication. Please note the different y-axis scales.

Species accumulation curves of grassland sites

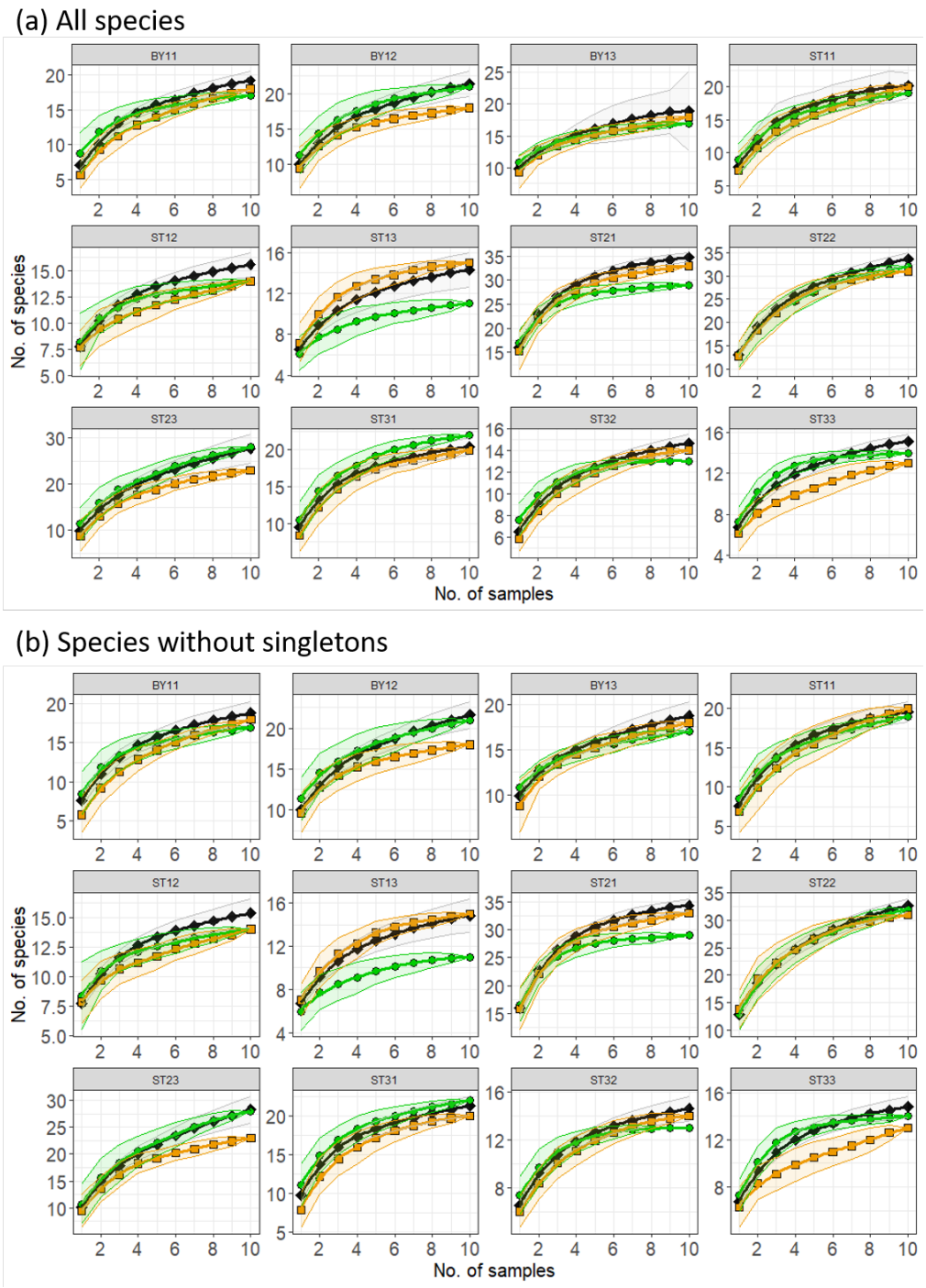


Figure S5 Species accumulation curves of single sampling sites, all grassland sites, ± SD. a) Results including all species observed at the respective site; b) all species except singletons. Green: Soil cores taken only in spring; orange: soil cores taken only in fall; grey: mean of 10 soil cores taken randomly from spring and fall (20 permutations). Site names are taken from Toschki et al. (2021); for information on single sites please refer to that publication. Please note the different y-axis scales.