Supplementary material

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Contents

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Table S1. Number of pairwise comparisons for each taxonomic and ecological group used for meta-analysis

Table 1:

Ecological group	Pairwise comparisons
Nematodes	**2186**
Total abundance	442
Bacterivores	407
Fungivores	406
Herbivores	382
Omnivores	393
Predators	156
Springtails	**348**
Total abundance	220
Euedaphic	41
Hemiedaphic	44
Epedaphic	43
Mites	**586**
Total abundance	234
Oribatida	148
Mesostigmata	105
Prostigmata	87
Astigmata	12
Earthworms	**706**
Total abundance	295
Epigeic abundance	26
Endogeic abundance	55
Anecic abundance	34
Total earthworm biomass	154
Epigeic biomass	37
Endogeic biomass	55
Anecic biomass	50

Fig S1. PRISMA flow diagram for systematic reviews as used in the literature selection for the meta-analyses

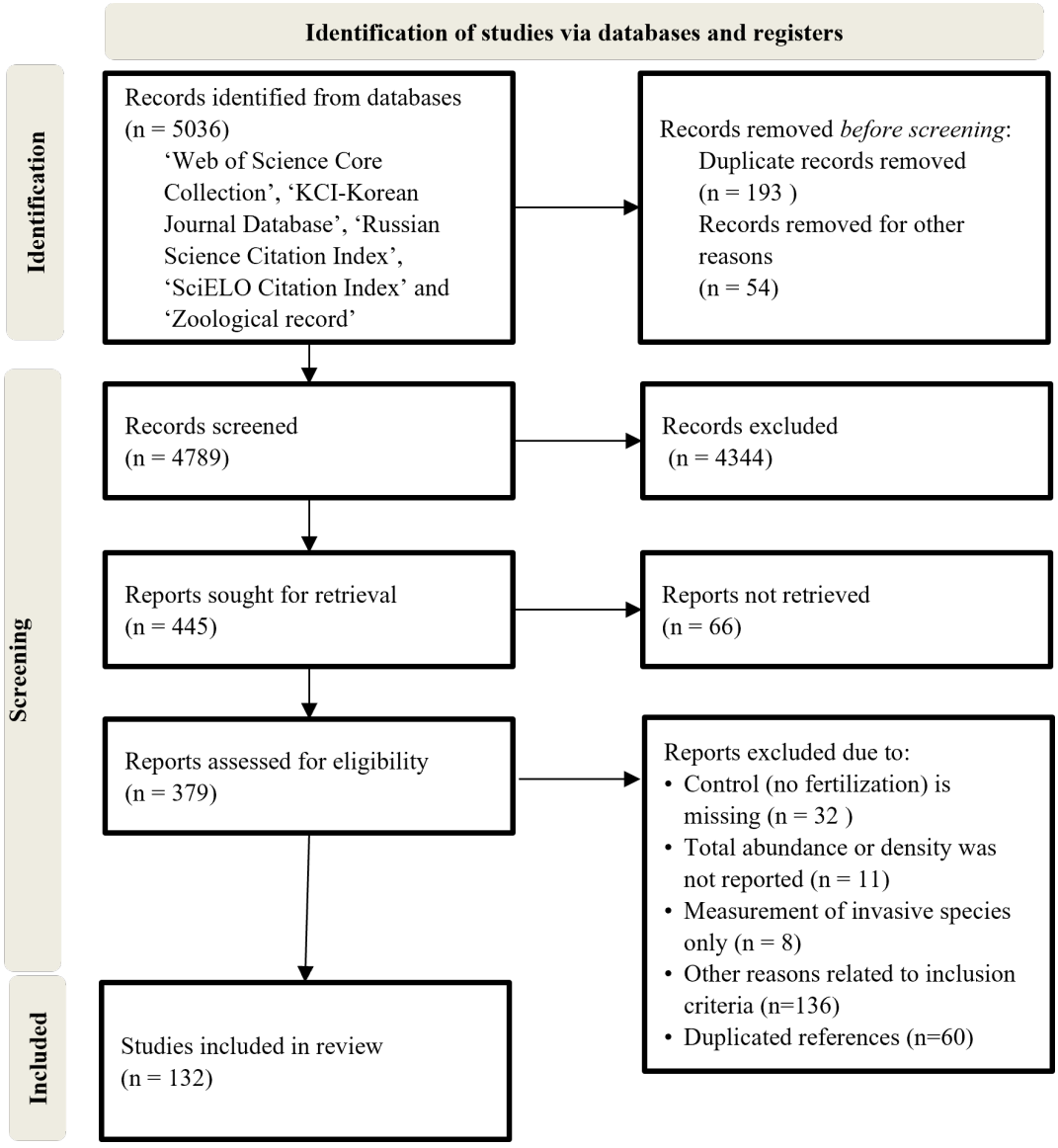


Fig S2. Location of sites included in the meta-analysis. For each location, the organism taxa sampled in each study is color coded

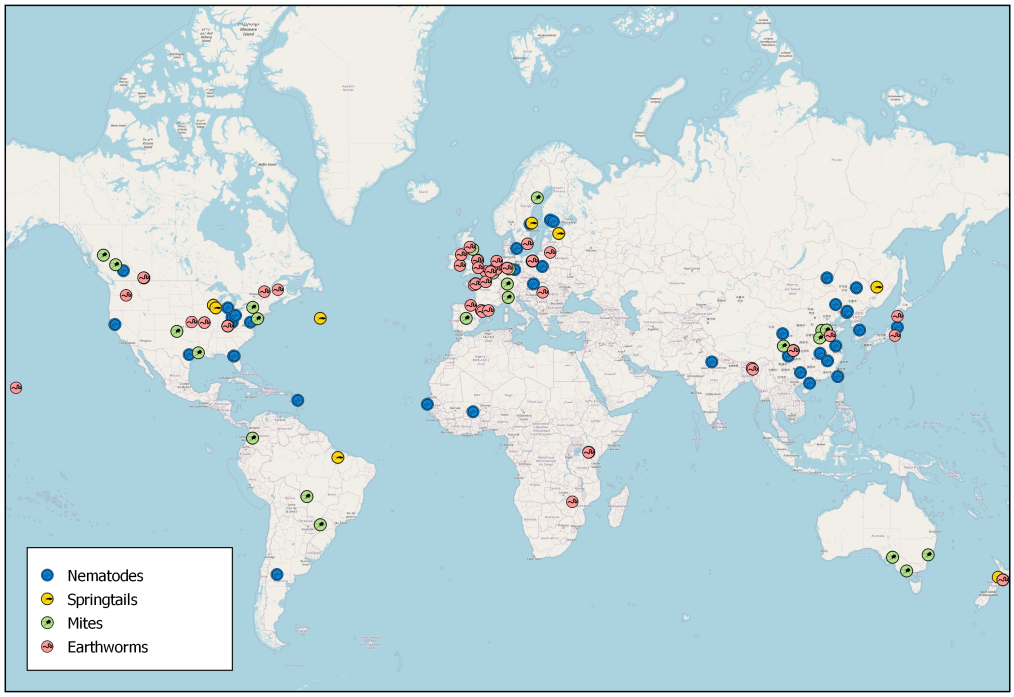
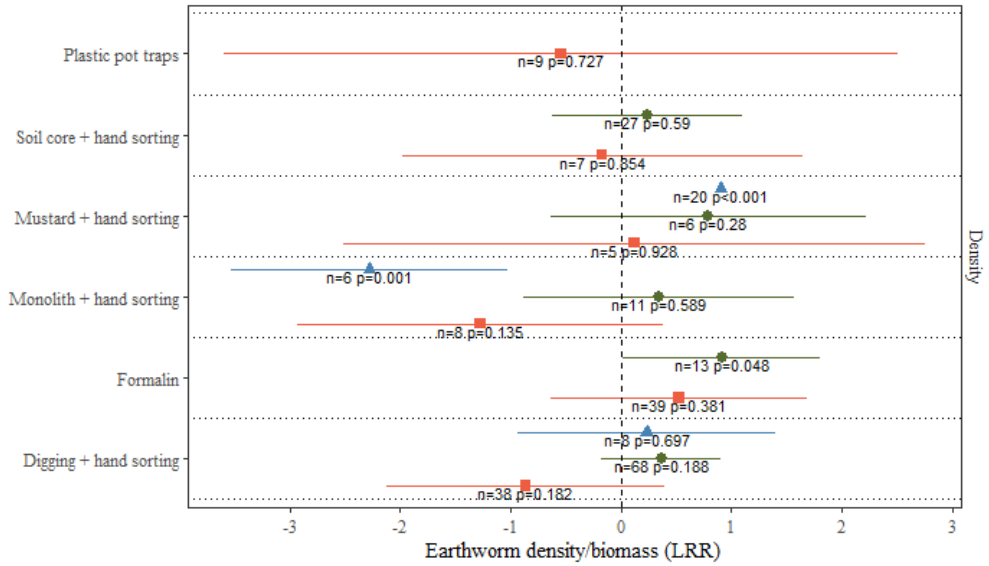


Fig S3. Effect of nitrogen fertilization assessed by different earthworm sampling methods on earthworm abundance as log-response ratio (LRR) of the control (unfertilized). Forest plots show the mean effect, 95% confidence intervals, sample sizes and p-values (in parentheses) for each sampling method.



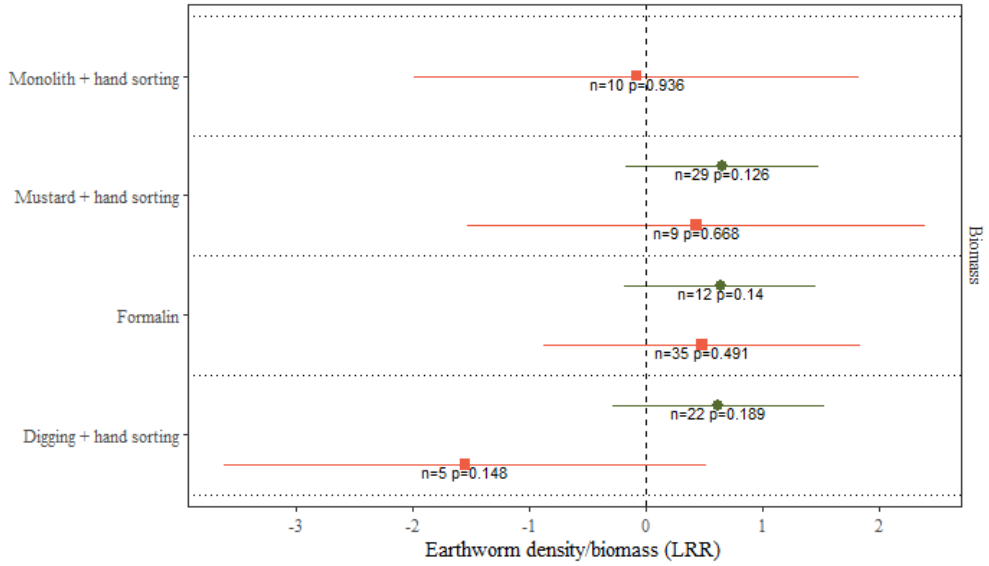


Fig S4. Effect of time after fertilization (*days*) on the density of nematodes, springtails, and mites, as well as earthworm biomass as log-response ratio (LRR) compared to (unfertilized) controls. Mean effects (points) and linear regression line (dotted: non significant, continuous: significant) are shown.

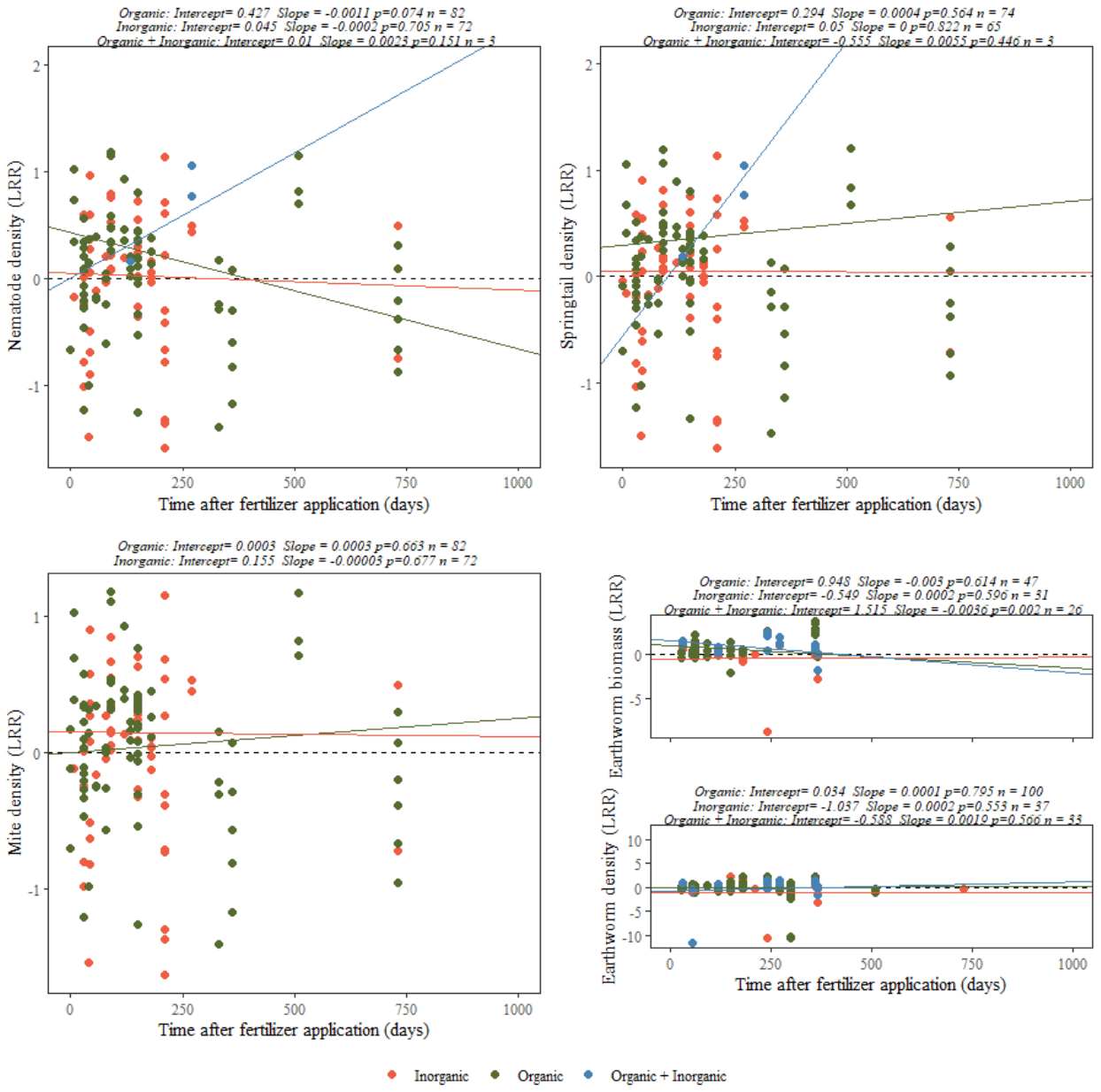


Fig S5. Effect of *N* fertilization in sites with different mean annual precipitation on density of nematodes, springtails, and mites, as well as earthworm biomass as log-response ratio (LRR) compared to (unfertilized) controls. Mean effects (points) and regression line (dotted: non significant, continuous: significant) are shown for different fertilizer types