

Supplement of

Different sensitivities of litter decomposition and nutrient release to ultraviolet radiation

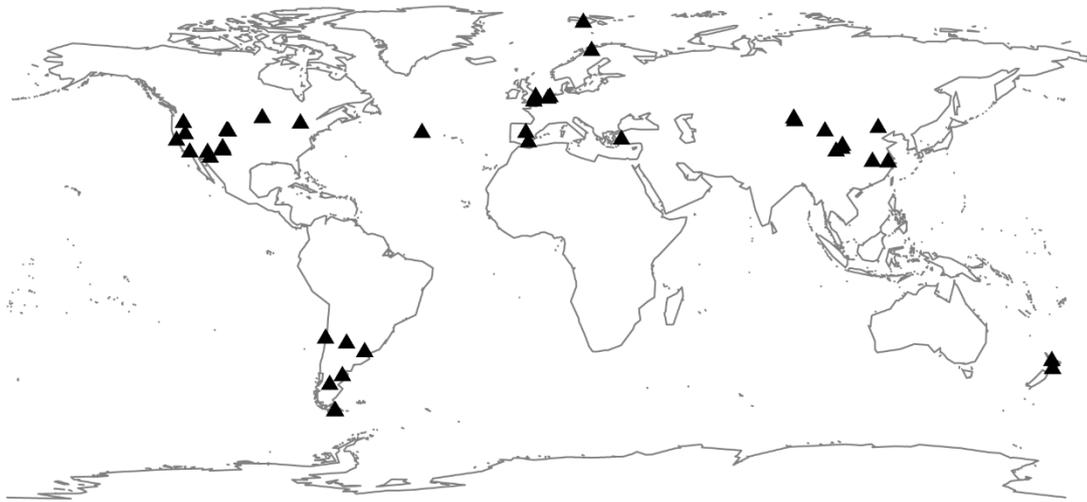
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1 **Part 1** Supplementary figures for the meta-analysis.

2 **Figure S1** Global distribution of the study sites included in the meta-analysis.



3

Figure S2 Model-averaged importance of the predictors of the effects of ultraviolet (UV) radiation on mass loss of litter. The importance is based on the sum of Akaike weights derived from model selection using Akaike's information criteria corrected for small samples (AIC). The cutoff is set at 0.8 (dashed line) to differentiate important from nonessential predictors.

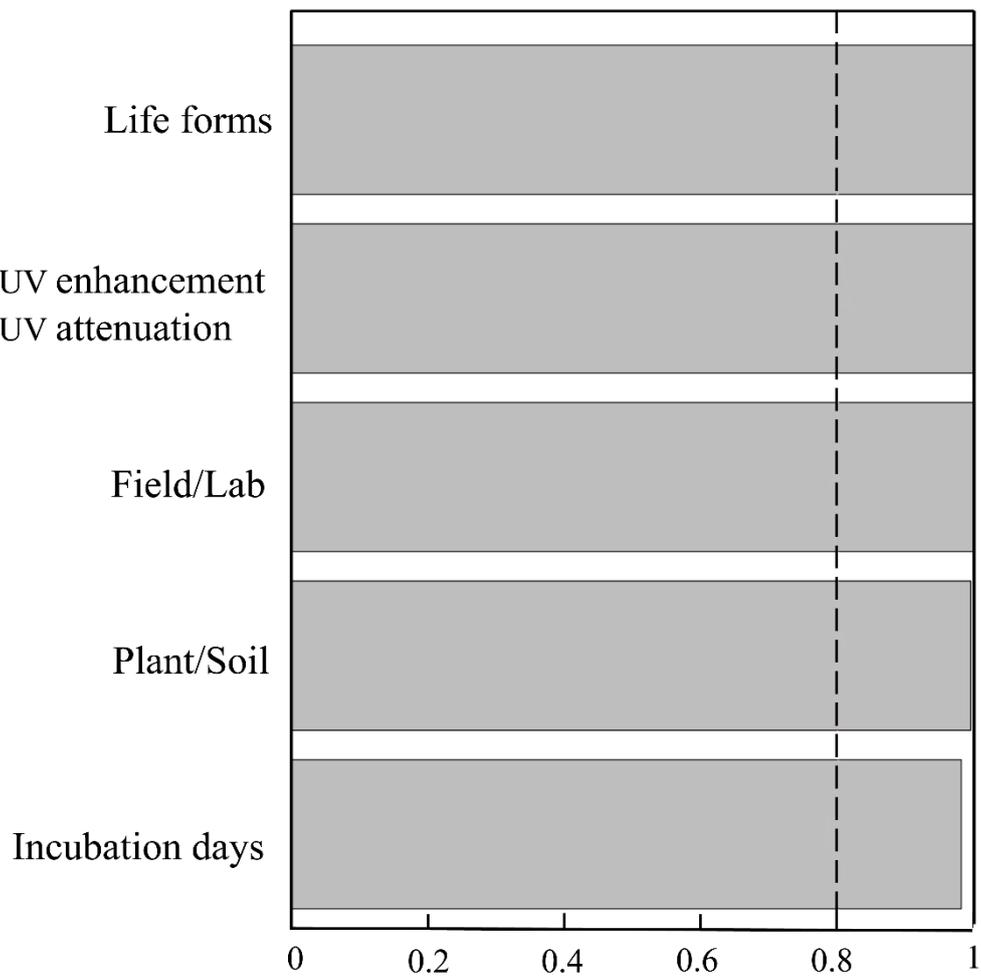


Figure S3 Relationships between the response ratios (RRs) of the k decay and changes in ultraviolet (UV) radiation. The values above zero indicates enhancement whereas below zero means inhibition.

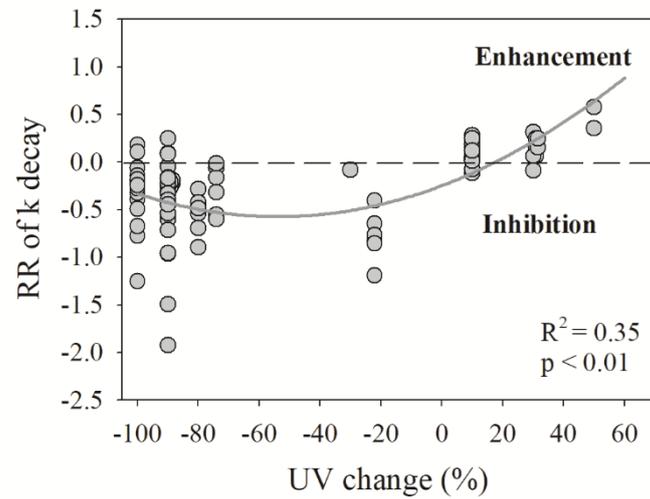


Figure S4 Effects of ultraviolet (UV) radiation on litter chemical properties. C is carbon, N is nitrogen, and P is phosphorus. The black symbols indicate significant differences ($p < 0.05$) between the response ratios (RRs) and zero. The vertical dotted line represents 0. The sample size for each variable is shown next to the confidence interval (CI) and represents the UV enhancement and attenuation, respectively, from left to right.

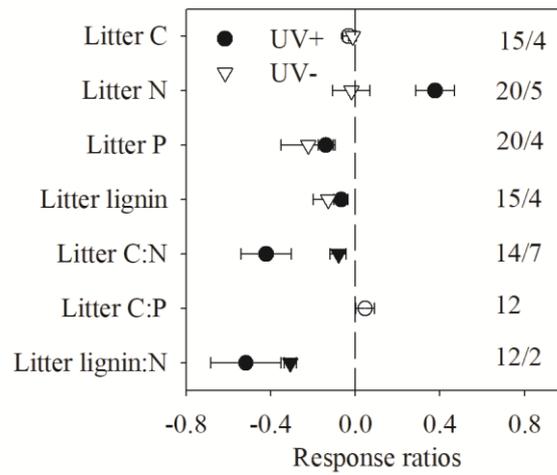
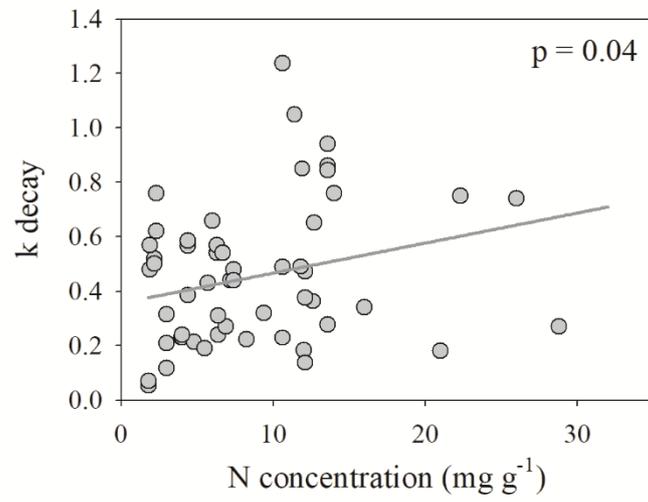


Figure S5 Relationships between the k decay and N concentration of litter in control treatment.



Part 2: The 54 papers from which data were extracted for this meta-analysis.

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