

ERRATUM

Erratum for McNamara, Sarah C., Matthew R. Pinar, and William J. Resetarits Jr. 2021. Temperature but not nutrient addition affects abundance and assemblage structure of colonizing aquatic insects. *Ecology* 102(1):e3209. <https://doi.org/10.1002/ecy.3209>

It has come to the authors' attention that the addition of a constant during square-root transformation of the species matrix ($\sqrt{X + 0.5}$) produced incorrect results for three assemblage analyses: alpha diversity, beta diversity, and assemblage structure. The authors have corrected these analyses by square-root transforming community matrices without the constant added (\sqrt{X}). The authors apologize for this oversight. Corrected R code is posted on Figshare at <https://doi.org/10.6084/m9.figshare.12728702.v2>

This transformation converted all zero abundances of species (absence) to positive values (presence). Although the addition of the constant is appropriate for univariate analyses of abundances and richness, the effects on community analyses were particularly notable for alpha diversity (effective number of species). In the raw data, mesocosms with two heaters had lower abundance and richness (more zeroes), which were converted to non-zero values with the addition of the constant. With the transformation, this incorrectly indicated alpha diversity significantly increased with more heaters, whereas in revised analyses the effect of heaters was marginally negative (lower alpha diversity with two heaters than with zero heaters).

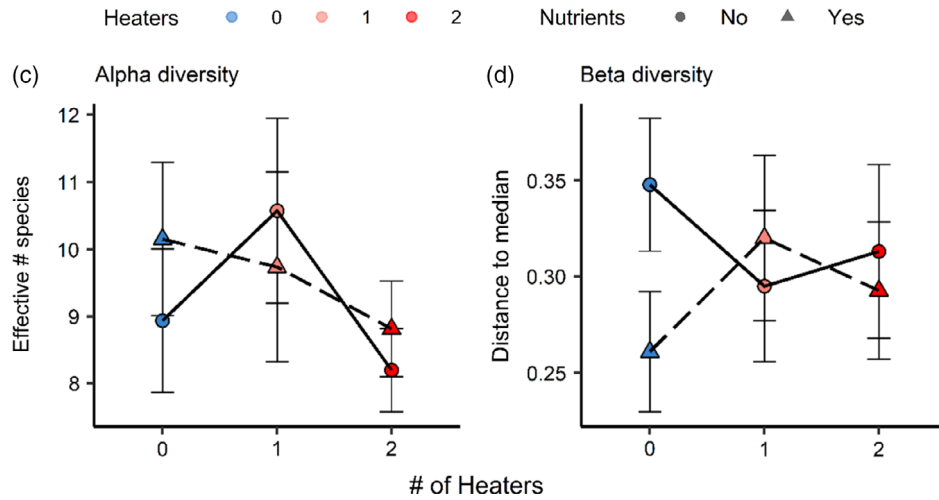
In the paper, initial analyses of assemblage structure (PERMANOVA) indicated significant effects of heaters, while in revised analyses the effect is marginally non-significant. Additionally, analysis of beta diversity in the manuscript indicated a marginal negative effect of heaters, whereas revised analysis showed no effects of heaters or nutrients on beta diversity.

Overall, this does not alter the primary interpretation of overall results, indicating detrimental effects of heaters on colonizing insects, but no effects of nutrient addition. Results presented in Table 2, Figure 2, and Figure 3 are corrected below.

Corrected analysis results of alpha diversity, assemblage structure, and beta diversity in Table 2:

Effect	SS	MS	Numerator df	Denominator df	F	P	η_p^2
Alpha diversity (Jost's effective number of species)							
Heaters	16.70	8.35	2	30	2.831	0.0748	0.155
Nutrients	0.99	0.99	1	30	0.335	0.5673	0.011
H × N	6.69	3.35	2	30	1.134	0.3351	0.069
Assemblage structure (PERMANOVA)							
Heaters	0.256	0.128	2	30	1.067	0.0766	0.066
Nutrients	0.064	0.064	1	30	0.536	0.6521	0.018
H × N	0.185	0.093	2	30	0.773	0.3373	0.049
Beta diversity (distance to median)							
Heaters	0.000	0.000	2	33	0.003	0.9975	0.000
Nutrients	0.004	0.004	1	34	0.576	0.4533	0.017

Corrected graphs of alpha diversity (Fig. 2c) and beta diversity (Fig. 2d).



Corrected NMDS plot of assemblage structure from Fig. 3a. Note: the shadeplot (Fig. 3b) was not produced with data using the constant added.

