



FIGURE S2 | Diagnostics for richness (A-B) and abundance (C-D) models provided by the package R DHARMa. Quantile-quantile plots of residuals (A-C) to detect overall deviations from the expected distribution, and (B-D) plots of the standardized quantile residuals against the model predictions of the model in rank transformed values. It provides simulations of the quantitative residuals of a model (linear model or GLM), standardizing them to their values on a scale between 0 and 1 (B-D). A correctly specified model has residuals with a uniform distribution regardless of the nature of the model, *i.e.*, residuals vs. predicted quantile lines should be horizontal lines at 0.25, 0.5 and 0.75 (B-D). No difference between the residuals and predicted quantile lines were detected for both richness and abundance models (significant = red lines; no significant = black lines) (B-D). Formal tests and graphics revealed no significant problem ($p > 0.05$) regarding heteroscedasticity, overdispersion and outliers for both models (A-C).

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