SUPPLEMENTARY MATERIAL

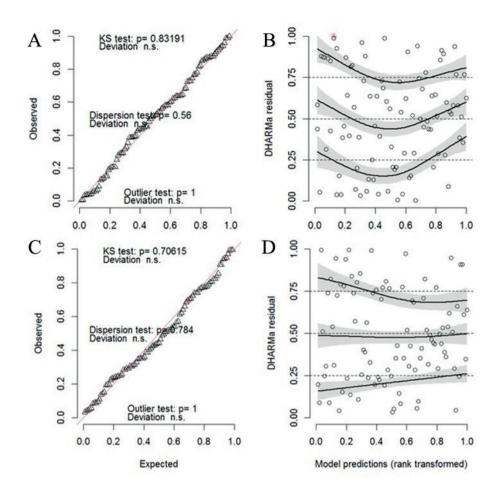


FIGURE S2 I Diagnostics for richness (**A-B**) and abundance (**C-D**) models provided by the package *R* DHARMa. Quantile-quantile plots of residuals (**A-C**) to detect overall deviations from the expected distribution, and (**B-D**) plots of the standardized quantile residuals against the model predictions 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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