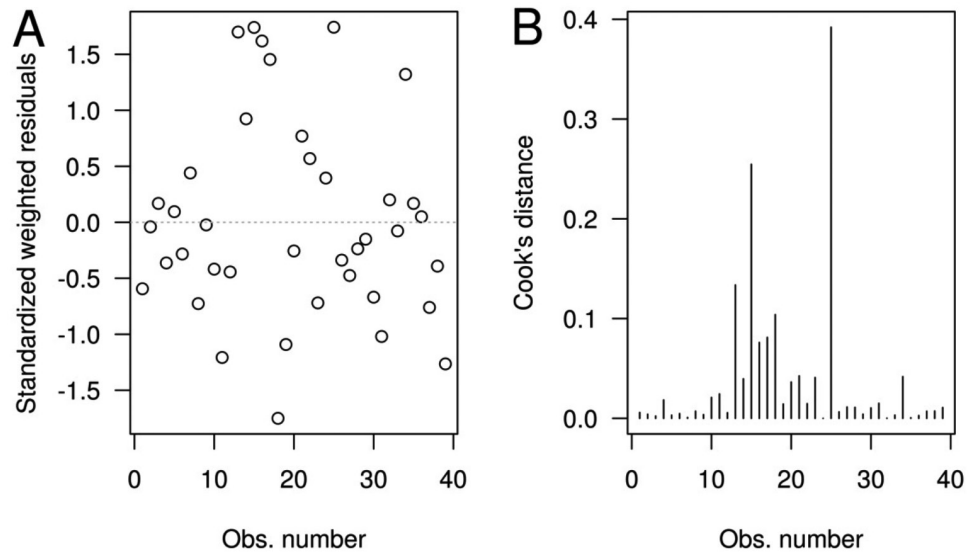


## SUPPLEMENTARY MATERIAL S7

The distribution of residuals from the model with LCBD as response variable against the fitted values did not show any systematic variation, which indicates that this model attended the assumption of homoscedasticity (Fig. S7A). Furthermore, the model did not present influential observations considering Cook's distance (Fig. S7B). Finally, both Mantel correlogram (Fig. S8A) and bubble plot (Fig. S8B) indicates that spatial autocorrelation was not an issue in model residuals.



**FIGURE S7** | Assessment of model assumptions of the beta regression with local contribution to beta diversity as the response variable. Assessment of homogeneity of variance (A), and presence of influential observations (B).



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