

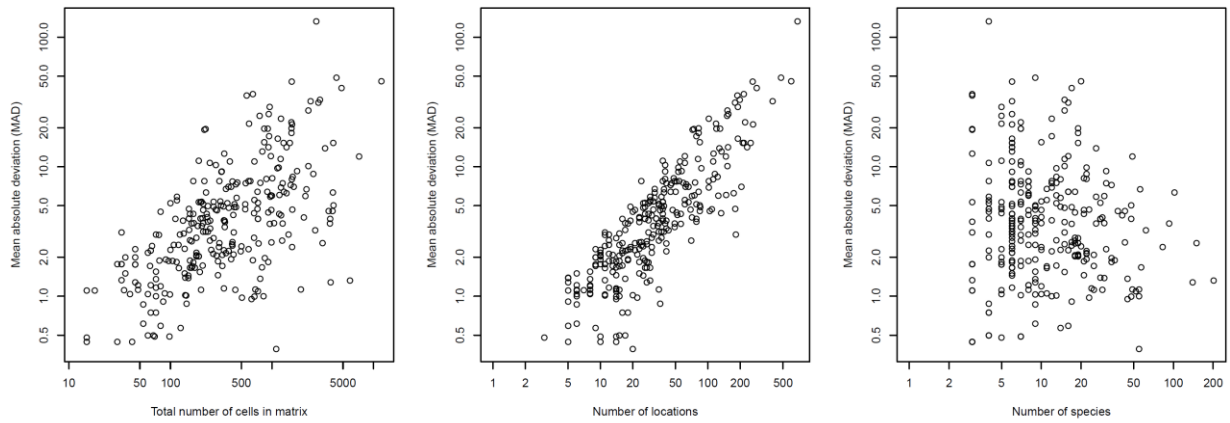
Supplementary material for the manuscript:
**Varying richness need not imply non-random species co-occurrence:
implications for specifying null models**

Short title: Species richness and co-occurrence

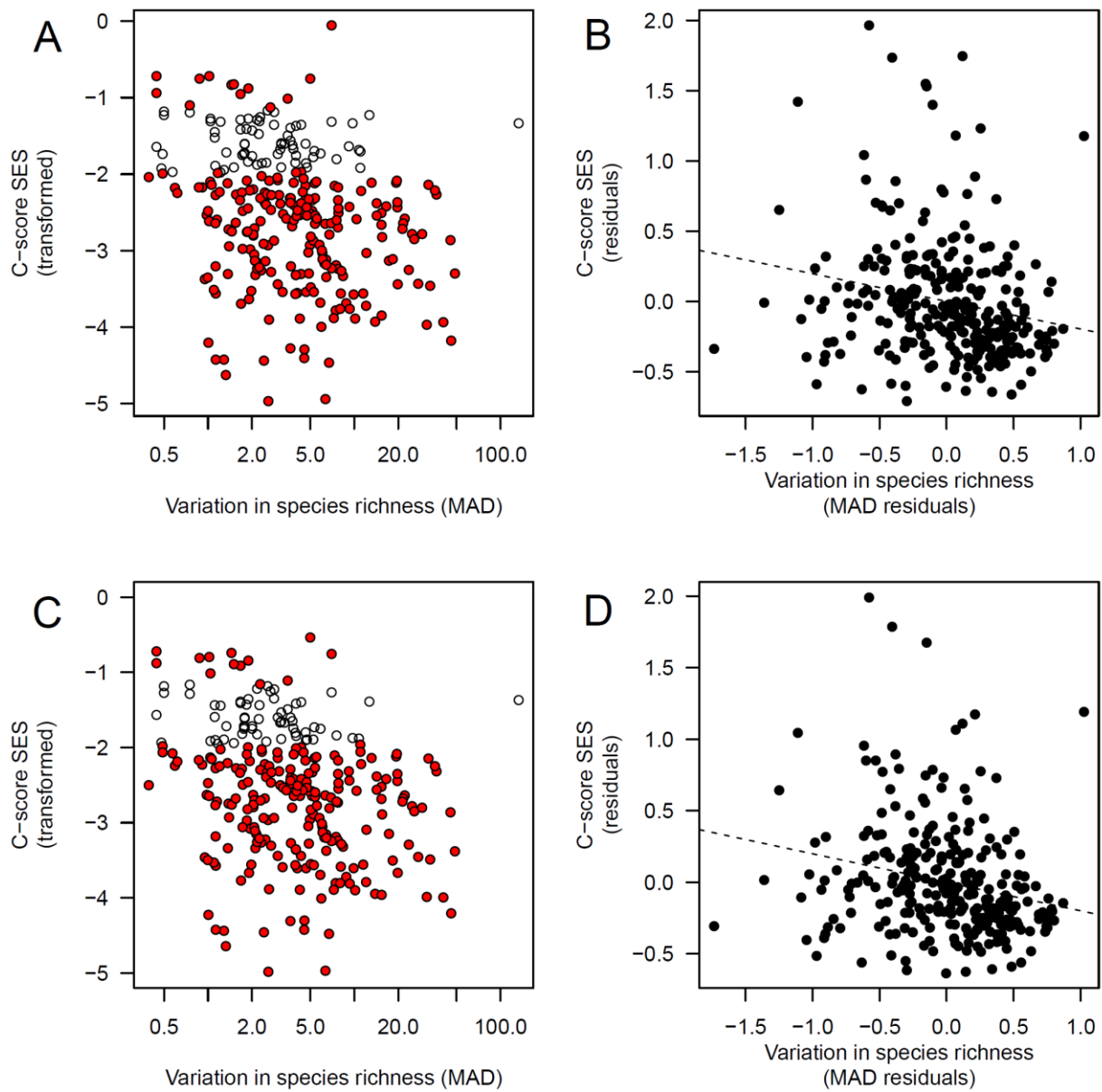
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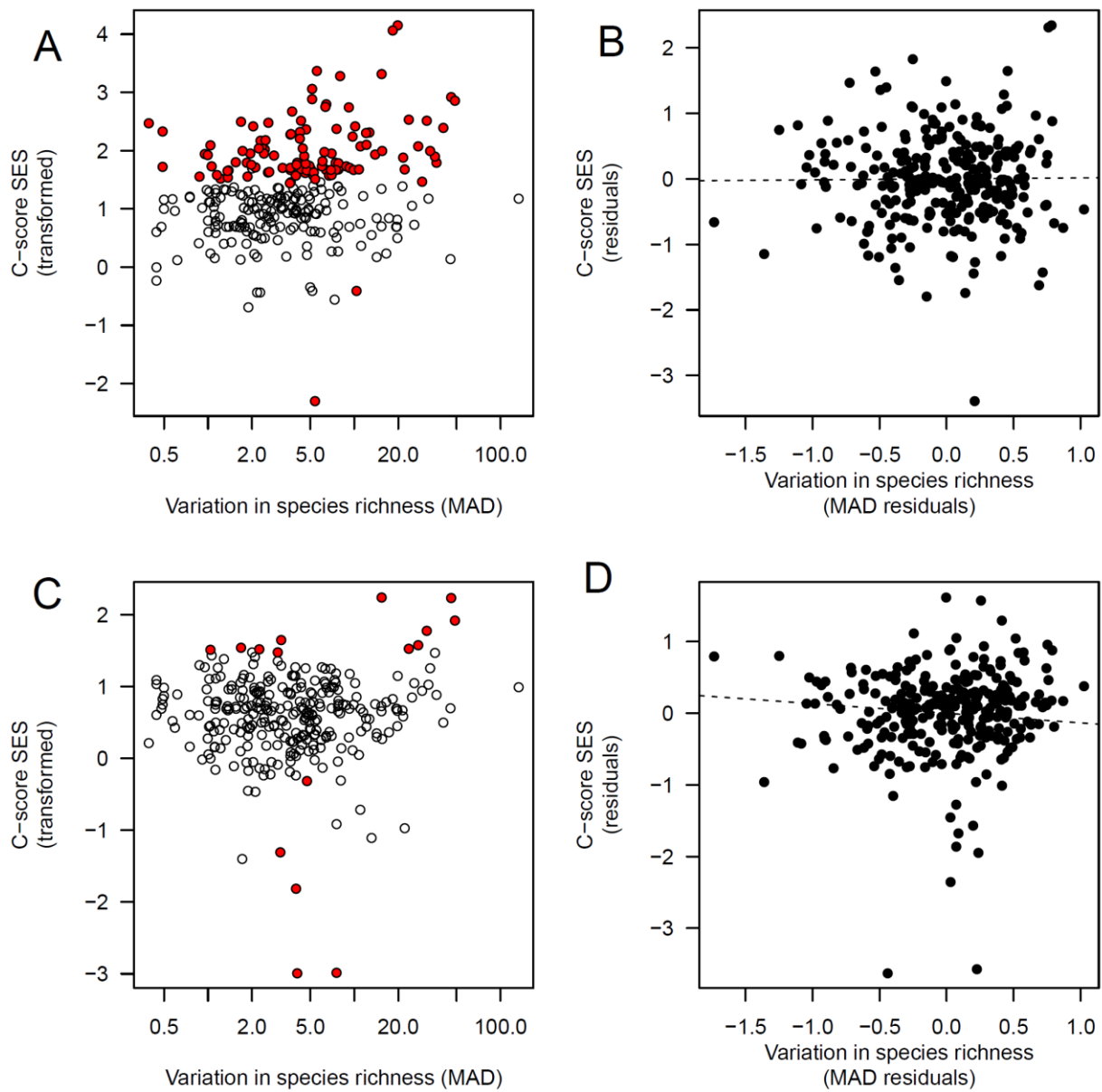
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Supplementary Figure 1. Relationships between Mean Absolute Deviation and matrix size, number of locations, and number of species for all real datasets analysed.



Supplementary Figure 2. Analyses presented in Figure 1 of the main text, but using the *curveball* randomisation algorithm rather than the *quasiswap* randomisation algorithm where applicable throughout.



Supplementary Figure 3. Analyses presented in Figure 2 of the main text, but using the *curveball* randomisation algorithm rather than the *quasiswap* randomisation algorithm where applicable throughout.