**Table S7**

Multiple Regression on distance Matrices (MRM; Based on 1 000 permutations) indicated that the explanatory powers of pairwise site Euclidean distance based on coordinates are lower than Gower’s distance based on geographical groups for beta-diversities and their components.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Euclidean distance | | Gower’s distance | |
|  | *R2* | *P* | *R2* | *P* |
| TDsor | 0.088 | 0.003 | 0.146 | 0.002 |
| TDsim | 0.091 | 0.006 | 0.159 | 0.001 |
| TDsne | 0.021 | 0.083 | 0.049 | 0.008 |
| FDsor | 0.056 | 0.031 | 0.043 | 0.025 |
| FDsim | 0.070 | 0.010 | 0.165 | 0.001 |
| FDsne | 0.032 | 0.860 | 0.031 | 0.034 |