**SUPPORTING INFORMATION**

**Table S1**

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| **Technique** | **Area of calibration** | ***D* metric** | **Niche equivalency test significance level** | **Niche similarity test (range 1🡪range 2) significance level** | **Niche similarity test (range 1🡨range 2) significance level** |
| PCA – occ | Occurrences in North America + UK, Ireland, Piedmont | 0.183 | < 0.01 | ns | ns |
| PCA – occ\* | Occurrences in North America | 0.201 | < 0.01 | ns | ns |
| PCA – env | Native + Invasive range | 0.208 | < 0.01 | ns | ns |
| PCA – env\* | Native range | 0.243 | < 0.01 | ns | ns |
| BETWEEN – occ | Occurrences in North America + UK, Ireland, Piedmont | 0.158 | < 0.01 | ns | ns |
| WITHIN – occ | Occurrences in North America + UK, Ireland, Piedmont | 0.311 | < 0.01 | < 0.05 (sim) | < 0.05 (sim) |
| WITHIN – env | Native + Invasive range | 0.072 | < 0.01 | ns | ns |
| LDA | Occurrences in North America + UK, Ireland, Piedmont | 0.408 | < 0.01 | ns | ns |
| MDS | Occurrences in North America + UK, Ireland, Piedmont | 0.174 | < 0.01 | ns | ns |
| MDS\* | Occurrences in North America | 0.209 | < 0.01 | ns | ns |
| MAXENT | Occurrences in North America + UK, Ireland, Piedmont | 0.523 | < 0.01 | < 0.01 (sim) | < 0.01 (sim) |