Table 1. Percentage of missing data before and after data propagation.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Cells with data for pectoral fin | Cells with data for pelvic fin | Total populated cells | Percentage of missing data in the final output matrix | Percentage of missing data in the merged tree matrix |
| Before propagation (Pre-processed matrix) | 1,661 | 1,877 | 3,538 | 85.9% | 95.4% |
| After propagation (Final output matrix) | 10,459 | 5,949 | 16,408 | 34.8% | 78.7% |

*Notes:* The change in the percentage of missing data before propagation in the pre-processed matrix (Supplementary Materials Matrix 2) compared to after propagation in the final output matrix (Supplementary Materials Matrix 4). Missing percentages relative to the total number of species in the final output matrix (12,582 species; 25,164 cells) *vs.* those in the merged tree matrix (38,419 species; 76,838 cells; Supplementary Materials File 2).