

Supplementary Table 1: Comparison between phylogeographic spread inferred using parsimony and maximum likelihood on the same tree topologies

| | Fréchet tree distance | Number of nodes with different locations | Amount of nodes with different locations |
|-----------|-----------------------|--|--|
| UPGMA | 2174.67 | 3 | 0.016 |
| NJ | 4509.48 | 4 | 0.021 |
| Parsimony | 10000.33 | 12 | 0.063 |
| MLJC | 7917.40 | 10 | 0.053 |
| MLGTR | 8204.06 | 12 | 0.063 |