**Table S3.** Values estimated with BioGeoBears for each parameter (d, e and j) and for the likelihood of ancestral module, and phylogroup, affiliations, using the POLY and PELT clades (Figure 2) under the DEC and DEC+J models.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | DEC | | | DEC+J | | | |
|  | d | e | lnL | d | e | j | lnL |
| Module, POLY clade | 0.0479 | 0.2218 | −175.05 | 0 | 0 | 0.0277 | **−127.74** |
| Module, PELT clade | 0.0503 | 0.2107 | −317.58 | 0 | 0 | 0.0541 | **−216.10** |
| Phylogroup, POLY clade | 0.0954 | 0.0042 | −256.84 | 0.0778 | 0 | 0.0167 | **−247.08** |
| Phylogroup, PELT clade | 0.1419 | 0.6156 | −383.25 | 0.0765 | 0 | 0.0401 | **−361.39** |