



# **Evolutionary Biogeography: An Integrative Approach with Case Studies**

*Juan J Morrone*

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Rather than favoring only one approach, Juan J. Morrone proposes a comprehensive treatment of the developments and theories of evolutionary biogeography. Evolutionary biogeography uses distributional, phylogenetic, molecular, and fossil data to assess the historical changes that have produced current biotic patterns. Panbiogeography, parsimony analysis of endemism, cladistic biogeography, and phylogeography are the four recent and most common approaches. Many conceive of these methods as representing different "schools," but Morrone shows how each addresses different questions in the various steps of an evolutionary biogeographical analysis.

Panbiogeography and parsimony analysis of endemism are useful for identifying biotic components or areas of endemism. Cladistic biogeography uses phylogenetic data to determine the relationships between these biotic components. Further information on fossils, phylogeographic patterns, and molecular clocks can be incorporated to identify different cenocrons. Finally, available geological knowledge can help construct a geobiotic scenario that may explain how analyzed areas were put into contact and how the biotic components and cenocrons inhabiting them evolved. Morrone compares these methods and employs case studies to make it clear which is best for the question at hand. Set problems, discussion sections, and glossaries further enhance classroom use.

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