

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. Problem sets, discussion questions, and a glossary further enhance classroom use.

"Evolutionary Biogeography covers the scope of biogeography in a much more thorough and comprehensive way than any other textbook to date, providing a unique and most excellent contribution to the subject."

—John Robert Grehan, Buffalo Museum of Science

"Evolutionary Biogeography is invaluable. Juan J. Morrone incorporates case studies that are both useful and interesting, providing a great compendium for an important area of scholarship."

—Glen M. MacDonald, Departments of Geography and Ecology and Evolutionary Biology, University of California, Los Angeles

Juan J. Morrone is professor of biogeography, systematics, and comparative biology at the Facultad de Ciencias, Universidad Nacional Autónoma de México (UNAM), Mexico City. He is the author, coauthor, editor, or coeditor of twenty-one books and two hundred scientific papers on biogeography, systematics, biodiversity, and evolution.

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