



Volume 16 • TOPICS IN GEOBIOLOGY • Series Editors: Neil H. Landman and Douglas S. Jones

Paleobiogeography

Using Fossils to Study
Global Change, Plate
Tectonics, and Evolution



Bruce S. Lieberman

Paleobiogeography Topics In Geobiology

N. Noffke



Paleobiogeography Topics In Geobiology:

Paleobiogeography Bruce S. Lieberman, 2012-12-06 Biogeography relates the evolution of the Earth's biota to major episodes in the Earth's history such as climatic changes and plate tectonic events. Furthermore, biogeographic patterns have played a prominent role in the development of the theory of evolution. Thus, biogeography has the potential to make important contributions to the field of geobiology. Paleobiogeography emphasizes how analytical techniques from phylogenetic biogeography can be applied to the study of patterns in the fossil record. In doing this, it considers the strengths and weaknesses of paleobiogeographic data, the effects of plate tectonic processes specifically continental rifting and collision, and changes in relative sea levels in terms of how they influence the evolution and distribution of organisms.

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Objectives, Concepts, Perspectives N. Noffke, 2012-12-02 Geobiology is an exciting and rapidly developing research discipline that opens new perspectives in understanding Earth as a system. To determine and to exploit its possibilities, this promising scientific field will benefit from a discussion of its definition as a research discipline, its objectives, and its methodological approaches. Such a spirited discussion is the goal of the book *Geobiology: Objectives, Concepts, Perspectives*. Geobiology touches various subdisciplines of geology and biology in many ways. The book will serve biogeochemists, paleontologists, biomineralogists, microbiologists, and many others as a forum to determine future directions of geobiological research. The book includes a section on the concept of geobiological studies, which combines the parent disciplines, biology and geology. Several case studies describe geobiological investigations that serve to understand Earth in the present and past. The case studies give an overview of the general understanding of geobiology and lead the reader towards the current hot topics in this rising scientific discipline. New definition of the rising scientific discipline geobiology. Overview into the broad spectrum of geobiological topics. Insight into hot topics of current geobiological research. **Biotectonics** Malte C.

Ebach, Bernard Michaux, 2020-10-01 Tectonic plates are constantly moving, either crashing into one another, creating a mosaic of mountains and shallow seas, or tearing apart and isolating large swathes of land. In both cases, plate tectonics separates populations, leading to the evolution of biota. Tectonics is also responsible for the destruction of life, for instance, when large coral reefs or shallow seas are compressed to form mountain peaks. Could recent research into these processes provide

enough evidence to show that tectonics may be the ultimate driver of life on Earth Our book delves into the current research in tectonics particularly neotectonics and its impact on rapid changes on biogeographical classification also known as bioregionalisation We also introduce a new term biotectonics that studies the impact of tectonics on biogeoregionalisation The question we ask is how tectonics directly influences the distribution of biota in four case studies the Mesozoic and early Palaeogene Australides which spans the Proto Pacific coast of the South America Antarctica and Australasia and the Neogene of Australia To conclude we examine the role of neotectonics on transition zones and the Amazon Basin and make a case for biotectonic extinction

International Conference Paleobiogeography and Paleoecology 2001, Piacenza and Castell'Arquato, Italy, May 31-June 2, 2001 Paola Monegatti, 2002

Brinkman's cumulatieve catalogus van boeken, 2001 Voorts een alphabetische lijst van Nederlandsche boeken in België uitgegeven

Applied Palaeontology Robert Wynn Jones, 2006-05-04 This book was first published in 2006 Palaeontology has developed from a descriptive science to an analytical science used to interpret relationships between earth and life history Applied Palaeontology adopts a holistic integrated approach to palaeontology highlighting its key role in the study of the evolving earth life history and environmental processes After an introduction to fossils and their classification each of the principal fossil groups are studied in detail covering their biology morphology classification palaeobiology and biostratigraphy The latter sections focus on the applications of fossils in the interpretation of earth and life processes and environments It concludes with case histories of how our knowledge of fossils is applied in industry and elsewhere This is a valuable reference for anyone involved in the applications of palaeontology including earth life and environmental scientists and petroleum minerals mining and engineering professionals

The Geobiology and Ecology of Metasequoia Ben A. LePage, Christopher J. Williams, Hong Yang, 2005-07-22 The plant fossil record provides evidence that the genus Metasequoia was widely distributed and experienced a wide range of climatic and environmental conditions throughout the Northern Hemisphere from the early Late Cretaceous to the Pliocene Pleistocene Today the genus is limited to one species with approximately 5 000 mature individuals growing in the Xiahoe Valley in southeastern China This book is a distillation of the collective efforts and results of the world's Metasequoia specialists and enthusiasts It is the most up to date and comprehensive reference source for the genus and the authors have sought to incorporate obscure hard to get and non English reference sources The book reviews what is known about the biology ecology and physiology of fossil and living Metasequoia current research directions and problems that remain unresolved This book presents a definitive overview of fossil and living Metasequoia and was written by sixteen of the world's experts on this important genus Given the reality of increasing human pressure and the inevitability of global change efforts to conserve this ancient genus are underway

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Palaeobiogeography of Marine Fossil Invertebrates Fabrizio Cecca, 2014-04-21 Sitting squarely at the interface

between earth and life sciences palaeobiogeographic information is scattered throughout many publications Until now Palaeobiogeography of Marine Fossil Invertebrates covers important theoretical concepts relating to palaeobiogeography together with descriptions of analytical methods Fabrizio Cecca discusses general biogeographical concepts and the factors influencing distributional patterns using illustrative case histories Cecca uses the palaeobiogeography of fossil organisms to generate hypotheses on continental drifting past migration routes palaeobiodiversity gradients geographic barriers palaeoclimatic and paleoceanographic conditions He explores the biogeographical dimension of biodiversity through the analysis of existing latitudinal and longitudinal gradients of biodiversity and discusses the biodiversity area relationship with particular reference to sea level variations

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