
**PALEOBOTANY,
PALEOECOLOGY,
AND EVOLUTION**

VOLUME 2

edited by
Karl J. Niklas

Paleobotany Paleoecology And Evolution Vol 2

Geerat Vermeij



Paleobotany Paleoecology And Evolution Vol 2:

Biogeography and Plate Tectonics J.C. Briggs, 1987-08-01 One needs to look at only a small portion of the enormous literature on plate tectonics published in the last 15 years to realize that there are many differences between the various reconstructions that have been presented. It becomes obvious that although there is a general agreement about the presence of an assembly of continents a Pangaea in the early Mesozoic there is considerable disagreement among earth scientists as to the configuration of the assembly and the manner and timing of the subsequent dispersal. While the revolution in geophysics was taking place systematic work in paleontology and neontology was being carried out. This book is an attempt to incorporate the biological evidence into the theory of plate tectonics. The author traces the changing relationships among the various biogeographic regions and demonstrates how such changes may often be correlated with the gradual geographic alteration of the earth's surface. He analyses recent information about the distribution of widespread groups of terrestrial and freshwater vertebrates invertebrates and plants and discusses the biogeographical effects of the movement of oceanic plates. It is particularly important to obtain dependable information about certain critical times in the history of continental relationships. We need to know when the terrestrial parts of the earth were broken apart and when they were joined together. The present investigation makes it clear that we cannot depend entirely on evidence from plate tectonics nor will purely biological evidence suffice. This book thus provides much of interest to systematists working on contemporary groups of plants and animals paleontologists evolutionary biologists and professors teaching courses in biogeography.

Creatures of the Dark L. Alterman, Gerald A. Doyle, M.K. Izard, 2013-03-09 The papers in this volume are representative of those presented at a conference entitled *Creatures of the Dark: The Nocturnal Prosimians* held at Duke University June 9-12 1993. The purpose of the conference attended by more than 100 scientists was to assemble for the first time ever scholars from diverse fields with a common interest in the nocturnal prosimian primates. The history of the precursors of this meeting are outlined in the *Historical Perspective* by Doyle in this volume. Most of the invited papers are presented here in modified form as are several papers originally presented as posters. Two papers are included that were not presented due to scheduling conflicts and health considerations. Some papers delivered from the podium are not included in this volume. Interactions among conference participants resulted in many revisions to the contributions as did the comments of reviewers and the editors. Several papers which contained new data or new interpretations of familiar phenomena met with constructive criticism resulting in modification of the original papers. We thank all of the contributors for their patience and cooperation and commend the numerous reviewers who generously donated their time and expertise. We greatly appreciate funding from the National Institutes of Health the Wenner Gren Foundation for Anthropological Research the Duke University Center for International Studies the Duke University Primate Center and Drs Charles Putman of Duke University and Malcolm Gillis currently of Rice University.

Fundamentals of Palaeobotany Sergei Meyen, 2012-12-06 There have been at least ten

English language textbooks of palaeobotany since D H Scott published the first edition of *Studies in Fossil Botany* in 1900. Most have been written by scientists who were primarily botanists by training and were aimed largely at a readership familiar with living plants. They tended to follow a general pattern of an introductory chapter on preservation of plants as fossils followed by a systematic treatment group by group. Only Seward in his *Plant Life Through the Ages* departed from this pattern in presenting a chronological sequence. In the present book Meyen breaks with this tradition. Although having a basically biological approach he reaches out into all aspects of the history of plant life and the wider implication of its study. Only half of the present work deals sequentially with fossil plant groups treated systematically. The remainder then explores those topics which most other textbooks have incidentally or generally either ignored or have only mentioned rather: problems of naming and classifying fragmentary plant fossils, their ecology, biogeography and palaeoclimatic significance and the contribution that they have made to the understanding of living plant morphology and of the process of evolution.

Terrestrial Ecosystems Through Time Anna K. Behrensmeyer, 1992-08-15. Breathtaking in scope, this is the first survey of the entire ecological history of life on land from the earliest traces of terrestrial organisms over 400 million years ago to the beginning of human agriculture. By providing myriad insights into the unique ecological information contained in the fossil record, it establishes a new and ambitious basis for the study of evolutionary paleoecology of land ecosystems. A joint undertaking of the Evolution of Terrestrial Ecosystems Consortium at the National Museum of Natural History, Smithsonian Institution and twenty-six additional researchers, this book begins with four chapters that lay out the theoretical background and methodology of the science of evolutionary paleoecology. Included are a comprehensive review of the taphonomy and paleoenvironmental settings of fossil deposits as well as guidelines for developing ecological characterizations of extinct organisms and the communities in which they lived. The remaining three chapters treat the history of terrestrial ecosystems through geological time, emphasizing how ecological interactions have changed the rate and tempo of ecosystem change, the role of exogenous forcing factors in generating ecological change and the effect of ecological factors on the evolution of biological diversity. The six principal authors of this volume are all associated with the Evolution of Terrestrial Ecosystems program at the National Museum of Natural History, Smithsonian Institution.

Paleopalynology Alfred Traverse, 2007-05-21. *Paleopalynology* second edition provides profusely illustrated treatment of fossil palynomorphs including spores, pollen, dinoflagellate cysts, acritarchs, chitinozoans, scolecodonts and various microscopic fungal and algal dispersal bodies. The book serves both as a student text and general reference work. Palynomorphs yield information about age, geological and biological environment, climate during deposition and other significant factors about the enclosing rocks. Extant spores and pollen are treated first, preparing the student for more difficult work with fossil sporomorphs and other kinds of palynomorphs. Recognizing that palynomorphs occur together in rocks because of chemical robustness and stratigraphic distribution, not biological relationship, the central sections are organized stratigraphically. Among many other topics presented are the

sedimentation and geothermal alteration of palynomorphs and palynofacies analysis An appendix describes laboratory methods The glossary bibliographies and index are useful tools for study of the literature Encyclopedia of Biodiversity,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

Foundations of Macroecology Felisa A. Smith,John L. Gittleman,James H. Brown,2014-08-22 Macroecology is an approach to science that emphasizes the description and explanation of patterns and processes at large spatial and temporal scales Some scientists liken it to seeing the forest through the trees giving the proverbial phrase an ecological twist The term itself was first introduced to the modern literature by James H Brown and Brian A Maurer in a 1989 paper and it is Brown s classic 1995 study Macroecology that is credited with inspiring the broad scale subfield of ecology But as with all subfields many modern day elements of macroecology are implicit in earlier works dating back decades even centuries Foundations of Macroecology charts the evolutionary trajectory of these concepts from the species area relationship and the latitudinal gradient of species richness to the relationship between body size and metabolic rate through forty six landmark papers originally published between 1920 and 1998 Divided into two parts Macroecology before Macroecology and Dimensions of Macroecology the collection also takes the long view with each paper accompanied by an original commentary from a contemporary expert in the field that places it in a broader context and explains its foundational role Providing a solid coherent assessment of the history current state and potential future of the field Foundations of Macroecology will be an essential text for students and teachers of ecology alike **Controls on the Distribution and Quality of Cretaceous**

Coals Peter J. McCabe,Judith Totman Parrish,1992-01-01 **Soils of the Past** Gregory J. Retallack,2019-09-10 A student friendly textbook that describes ancient soils how they may be identified and their use in paleoenvironmental reconstruction Ancient soils contain vital mineralogical geochemical textural and paleontological information about the continental

environments in which they formed Advances in isotope geochemistry and sequence stratigraphic models allow evermore detailed reconstructions of environmental change from paleosols and new insights into such diverse topics as atmospheric chemistry global change paleoecology geobiology and mass extinction This book educates readers about the field of paleopedology and how it remains a key area of investigation for geologists and environmental scientists seeking to learn about and reconstruct the condition and evolution of paleoenvironments Presented in three sections Soils and Paleosols Factors in Soil Formation and Fossil Record of Soils Soils of the Past An Introduction to Paleopedology describes the main types of ancient soil procedures for identifying and studying them their classification and most significantly a wide array of examples of how paleosols have been used for paleoenvironmental reconstruction The book is an excellent reflection of the current state of knowledge and can be widely adopted over many disciplines All chapters have been revised and updated to reflect advances in soil science in the last two decades New tables display a wealth of new data added since the 2nd edition published in 2001 New figures have been added and line art has been redrawn to improve clarity and promote understanding References have been updated throughout Soils of the Past 3rd Edition is written for advanced undergraduates studying paleopedology as part of a degree in geology environmental science or physical geography and for interested professional earth scientists

Publications of the Geological Survey Geological Survey (U.S.), Geological Survey (U.S.), 1982

The Proterozoic Biosphere J. William Schopf, Cornelis Klein, 1992-06-26 First published in 1992 The Proterozoic Biosphere was the first major study of the paleobiology of the Proterozoic Earth

The Evolutionary Biology of Plants Karl J. Niklas, 1997-06-08 Provides a comprehensive synthesis of modern evolutionary biology as it relates to plants This text recounts the saga of plant life from its origins to the radiation of the flowering plants Through computer generated walks it shows how living plants might have evolved

New Organic Architecture David Pearson, 2001 New Organic Architecture is a manifesto for building in a way that is both aesthetically pleasing and kinder to the environment It illuminates key themes of organic architects their sources of inspiration the roots and concepts behind the style and the environmental challenges to be met The organic approach to architecture has an illustrious history from Celtic design Art Nouveau Arts and Crafts to the work of Antoni Gaud and Frank Lloyd Wright Today there is a response to a new age of information and ecology architects are seeking to change the relationship between buildings and the natural environment In the first part of his book David Pearson provides a history and assessment of organic architecture The second part comprises statements from thirty architects from around the world whose work is based on natural or curvilinear forms rather than the straight line geometrics of modernism Each statement is accompanied by full color illustrations of one or several of the architects built projects

Global Biomass Burning Joel S. Levine, 1991 This comprehensive volume is the first to consider biomass burning as a global phenomenon and to assess its impact on the atmosphere on climate and on the biosphere itself

Seed Dispersal David R. Murray, 2012-12-02 Seed Dispersal focuses on the mechanics and processes involved in seed dispersal

including its implications in ecology animal behavior plant and animal biogeography speciation and evolution The selection first elaborates on the aerial motion of seeds fruits spores and pollen and seed dispersal by water Discussions focus on seed dispersal by rain river and flood effective seed dispersal by ocean currents compared to other vectors aerodynamic forces and their effects and launching and release mechanisms The text then takes a look at seed dispersal syndromes in Australian Acacia including inference of dispersal syndromes seed dispersal syndromes ecological consequences of seed dispersal and evolutionary derivation of dispersal syndromes The publication ponders on seed dispersal by fruit eating birds and mammals rodents as seed consumers and dispersers and seed dispersal in relation to fire Topics include fire as a dispersal vector long distance dispersal granivorous rodents and the fates of seeds determinants of the fate path population ecology of seed dispersal and foraging for fruits The selection is a valuable reference for researchers interested in the factors involved in seed dispersal

Plant Systematics Gurcharan Singh, 2019-06-07 This fourth edition of Plant Systematics is completely revised and updated It incorporates the updated International Code of Nomenclature for Algae Fungi and Plants Shenzhen Code 2018 the new version of PhyloCode Beta version of PhyloCode 5 2014 APweb version 14 September 2018 revised Angiosperm Phylogeny Group classification APG IV 2016 new Pteridophyte Phylogeny Group Classification PPG I 2016 besides the updates since the publication of third edition The book is a blend of classical fundamental aspects and recent developments especially in the field of molecular systematics cladistics and computer identification Special attention has been given to information on botanical nomenclature identification molecular systematics and phylogeny of angiosperms The complicated concepts of phylogeny taxometrics and cladistics have been explained with a view to providing a comparison between these diverse but interactive fields of study An attempt has been made to build upon a common example when exploring different methods especially in procedures of identification taxometrics and cladistics The major systems of classification are evaluated critically Discussion on major families of Pteridophytes Gymnosperms and Angiosperms especially those of major phylogenetic interest form a major portion of this edition The ebook includes nearly 500 color photographs set out in 36 pages covering plants from different parts of the world In addition 305 black white illustrations have been included to provide a better understanding of the plants covered in the book

Green Plants Peter R. Bell, Alan R. Hemsley, 2000-09-28 The central theme of Green Plants first published in 2000 is the astonishing diversity of forms found in the plant kingdom from the simplicity of prokaryotic algae to the myriad complexities of flowering plants The book is arranged according to generally accepted classification schemes beginning with algae prokaryotic and eukaryotic and moving through mosses liverworts fern allies ferns and gymnosperms to flowering plants Copiously illustrated throughout it provides a concise account of all algae and land plants with information on topics from cellular structure to life cycles and reproduction The authors maintain a refreshingly cautious approach in discussions of possible phylogenetic relationships and include newly emerging information on features of plants known only as fossils This edition has been completely updated to

reflect current views on the origin of the major groups of plants providing a resource for students of botany and for researchers needing a comprehensive reference to the plant kingdom *Nature* Geerat Vermeij, 2009-02-09 From humans to hermit crabs to deep water plankton all living things compete for locally limiting resources This universal truth unites three bodies of thought economics evolution and history that have developed largely in mutual isolation Here Geerat Vermeij undertakes a groundbreaking and provocative exploration of the facts and theories of biology economics and geology to show how processes common to all economic systems competition cooperation adaptation and feedback govern evolution as surely as they do the human economy and how historical patterns in both human and nonhuman evolution follow from this principle Using a wealth of examples of evolutionary innovations Vermeij argues that evolution and economics are one Powerful consumers and producers exercise disproportionate controls on the characteristics activities and distribution of all life forms Competition driven demand by consumers when coupled with supply side conditions permitting economic growth leads to adaptation and escalation among organisms Although disruptions in production halt or reverse these processes temporarily they amplify escalation in the long run to produce trends in all economic systems toward greater power higher production rates and a wider reach for economic systems and their strongest members Despite our unprecedented power to shape our surroundings we humans are subject to all the economic principles and historical trends that emerged at life s origin more than 3 billion years ago Engagingly written brilliantly argued and sweeping in scope *Nature An Economic History* shows that the human institutions most likely to preserve opportunity and adaptability are after all built like successful living things

Plant Geography of Chile Andres Moreira-Munoz, 2011-01-19 The first and so far only *Plant Geography of Chile* was written about 100 years ago since when many things have changed plants have been renamed and reclassified taxonomy and systematics have experienced deep changes as have biology geography and biogeography The time is therefore ripe for a new look at Chile s plants and their distribution Focusing on three key issues botany systematics geography and biogeographical analysis this book presents a thoroughly updated synthesis both of Chilean plant geography and of the different approaches to studying it Because of its range from the neotropics to the temperate sub Antarctic Chile s flora provides a critical insight into evolutionary patterns particularly in relation to the distribution along the latitudinal profiles and the global geographical relationships of the country s genera The consequences of these relations for the evolution of the Chilean Flora are discussed This book will provide a valuable resource for both graduate students and researchers in botany plant taxonomy and systematics biogeography evolutionary biology and plant conservation *Bibliography and Index of Geology* , 1983

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