
**PALEOBOTANY,
PALEOECOLOGY,
AND EVOLUTION**

VOLUME 2

edited by
Karl J. Niklas

Paleobotany Paleoecology And Evolution Vol 2

Gregory J. Retallack



Paleobotany Paleoecology And Evolution Vol 2:

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 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

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

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

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 *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 **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

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.

Bibliography and Index of Geology, 1983 Interpreting Pre-Quaternary Climate from the Geologic Record Judith Totman Parrish, 1998. The earth's pre Quaternary period more than two million years ago has been studied systematically only since the 1960s when geologists started to take seriously the concept that the continents have changed position on the earth's surface. While previous books have dealt with climate models and paleoclimate, this is the first to offer a sustained exploration of the methods that are the foundation of any interpretation of earth processes.

Publications of the Geological Survey Geological Survey (U.S.), Geological Survey (U.S.), 1982 **Plant Systematics** G Singh, 2016-04-19. The focus of the present edition has been to further consolidate the information on the principles of plant systematics, include detailed discussion on all major systems of classification and significantly also include discussion on the selected families of vascular plants without sacrificing the discussion on basic principles. The families included for discussion are largely those which have wide representation as also those that are less known but significant in evaluating the phylogeny of angiosperms. The discussion of the families also has a considerable focus on their phylogenetic relationships as evidenced by recent cladistic studies with liberal citation of molecular data. Several additional families have been included for detailed discussion in the present volume.

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.

The Permian of Northern Pangea Peter A. Scholle, Tadeusz M. Peryt, Dana S. Ulmer-Scholle, 2012-12-06. The Permian was a remarkable time period. It represents the maximum stage of Pangean continental assembly, includes a major global climatic shift from glacial to nonglacial conditions, icehouse-greenhouse transition and is terminated by one of the most

profound faunal floral extinction events in the Earth's history. In addition, Permian oceans, although poorly understood, must have had some quite unique characteristics. Permian seas reached the most extreme values of carbon, sulfur, and strontium isotopic ratios ever achieved in Phanerozoic time, and the isotopic ratios of all three elements abruptly returned to more normal values at or very close to the Permian-Triassic boundary. Finally, the Permian is marked by an abundance of important sedimentary mineral resources. It has large fossil fuel concentrations: coal, oil, and natural gas; enormous phosphate reserves; and very extensive evaporite deposits including gypsum, anhydrite, and halite, as well as a variety of potash salts. Study of the Permian has been hampered, however, by a number of factors. These include a scattered geologic literature presented in a variety of languages; a confusing regional and global stratigraphic framework based in part on inadequate type sections and largely provincial, often poorly correlatable faunas. All have contributed to the sparsity and inadequacy of overviews of this critical geological interval. The two volumes attempt to bring together some of the widely scattered observations about these fascinating rocks, at least for the northern, pre-dominantly nonglacial parts of Pangea.

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