

# Terrestrial Ecosystems through Time

EVOLUTIONARY PALEOECOLOGY OF TERRESTRIAL PLANTS AND ANIMALS

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# Terrestrial Ecosystems Through Time Evolutionary Paleoecology Of Terrestrial Plants And Animals

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## **Terrestrial Ecosystems Through Time Evolutionary Paleocology Of Terrestrial Plants And Animals:**

*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

*Biodiversity in Dead Wood* Jøgeir N. Stokland, Juha Siitonen, Bengt Gunnar Jonsson, 2012-04-26 A comprehensive overview of wood inhabiting fungi insects and vertebrates discussing habitat requirements along with strategies for maintaining biodiversity

Early Miocene Paleobiology in Patagonia Sergio F. Vizcaíno, Richard F. Kay, M. Susana Bargo, 2012-10-11 Coastal exposures of the Santa Cruz Formation in southern Patagonia have been a fertile ground for recovery of Early Miocene vertebrates for more than 100 years This volume presents a comprehensive compilation of important mammalian groups which continue to thrive today It includes the most recent fossil finds as well as important new interpretations based on ten years of fieldwork by the authors A key focus is placed on the paleoclimate and paleoenvironment during the time of deposition in the Middle Miocene Climatic Optimum MMCO between twenty and fifteen million years ago The authors present the first reconstruction of what climatic conditions were like and present important new evidence of the geochronological age habits and community structures of fossil bird and mammal species Academic researchers and graduate students in paleontology paleobiology paleoecology stratigraphy climatology and geochronology will find this a valuable source of information about this fascinating geological formation

*Vertebrate Taphonomy* R. Lee Lyman, 1994-07-07 Taphonomy studies the transition of organic matter from the biosphere into the geological record It is particularly relevant to zooarchaeologists and paleobiologists who analyse organic remains in the archaeological record in an attempt to reconstruct hominid subsistence patterns and paleoecological conditions In this user friendly encyclopedic reference volume for students and professionals R Lee Lyman a leading researcher in taphonomy reviews the wide range of analytical techniques used to solve particular zooarchaeological

problems illustrating these in most cases with appropriate examples He also covers the history of taphonomic research and its philosophical underpinnings Logically organised and clearly written the book is an important update on all previous publications on archaeological faunal remains

**Savannas of Our Birth** Robin S. Reid, 2012-10 Ultimately we can all trace our origins back to the savannas of Africa Robin Reid's book provides an eloquent introduction into the biology of the savannas that shaped us as humans simultaneously she provides an insightful and comprehensive overview of current and future threats to East African savannas and the steps that need to be taken to conserve the world we first lived in Don't go to East Africa without first reading this book it will enhance your safari and empower your research Andrew P Dobson author of Conservation and Biodiversity Savannas of Our Birth provides a balanced scientific and accessible examination of the current state of East African savannas and the relationships among the wildlife and people who live there Reid examines how savannas came to be and what alternative futures may be possible by trying to chart a middle ground in contentious debates about conservation and local rights J Terrence McCabe author of Cattle Bring Us to Our Enemies Turkana Ecology History and Raiding in a Disequilibrium System Reid's research focusing on pastoralists has reminded me that wildlife and domestic livestock co-existed to their mutual benefit for the last 2000 years With reopened eyes I've even seen it for myself in the case of the Masai and the savanna wildlife I study There is an extraordinary wealth of information in this book Richard D Estes author of The Behavior Guide to African Mammals

**The Carboniferous-Permian Transition** Spencer G. Lucas, William A. DiMichele, James E. Barrick, Joerg W. Schneider, Justin A. Spielmann, 2013

*Evolution of Primary Producers in the Sea* Paul Falkowski, Andrew H. Knoll, 2011-08-31 Evolution of Primary Producers in the Sea reference examines how photosynthesis evolved on Earth and how phytoplankton evolved through time ultimately to permit the evolution of complex life including human beings The first of its kind this book provides thorough coverage of key topics with contributions by leading experts in biophysics evolutionary biology micropaleontology marine ecology and biogeochemistry This exciting new book is of interest not only to students and researchers in marine science but also to evolutionary biologists and ecologists interested in understanding the origins and diversification of life Evolution of Primary Producers in the Sea offers these students and researchers an understanding of the molecular evolution phylogeny fossil record and environmental processes that collectively permits us to comprehend the rise of phytoplankton and their impact on Earth's ecology and biogeochemistry It is certain to become the first and best word on this exhilarating topic Discusses the evolution of phytoplankton in the world's oceans as the first living organisms and the first and basic producers in the earth's food chain Includes the latest developments in the evolution and ecology of marine phytoplankton specifically with additional information on marine ecosystems and biogeochemical cycles The only book to consider of the evolution of phytoplankton and its role in molecular evolution biogeochemistry paleontology and oceanographic aspects Written at a level suitable for related reading use in courses on the Evolution of the Biosphere Ecological and Biological oceanography and marine biology

and Biodiversity     Messages from Islands Ilkka Hanski, 2016-12-14 From a small island in the Baltic Sea to the large tropical islands of Borneo and Madagascar Messages from Islands is a global tour of these natural water bound laboratories In this career spanning work Ilkka Hanski draws upon the many islands on which he performed fieldwork to convey key themes in ecology By exploring the islands biodiversity as an introduction to general issues Hanski helps us to learn how species and communities interact in fragmented landscapes how evolution generates biodiversity and how this biodiversity is maintained over time Beginning each chapter on a particular island Hanski dives into reflections on his own field studies before going on to pursue a variety of ecological questions including What is the biodiversity crisis What are extinction thresholds and extinction debts What can the biodiversity hypothesis tell us about rapidly increasing allergies asthma and other chronic inflammatory disorders The world s largest island Greenland for instance is the starting point for a journey into the benefits that humankind acquires from biodiversity including the staggering biodiversity of microbes in the ecosystems that are closest to us the ecosystems in our guts in our respiratory tracts and under our skin Conceptually oriented but grounded in an adventurous personal narrative Messages from Islands is a landmark work that lifts the natural mysteries of islands from the sea bringing to light the thrilling complexities and connections of ecosystems worldwide     *A New History of Life* Peter Ward, Joe Kirschvink, 2015-04-07 The history of life on Earth is in some form or another known to us all or so we think A New History of Life offers a provocative new account based on the latest scientific research of how life on our planet evolved the first major new synthesis for general readers in two decades Charles Darwin s theories first published more than 150 years ago form the backbone of how we understand the history of the Earth In reality the currently accepted history of life on Earth is so flawed so out of date that it s past time we need a New History of Life In their latest book Joe Kirschvink and Peter Ward will show that many of our most cherished beliefs about the evolution of life are wrong Gathering and analyzing years of discoveries and research not yet widely known to the public A New History of Life proposes a different origin of species than the one Darwin proposed one which includes eight foot long centipedes a frozen snowball Earth and the seeds for life originating on Mars Drawing on their years of experience in paleontology biology chemistry and astrobiology experts Ward and Kirschvink paint a picture of the origins life on Earth that are at once too fabulous to imagine and too familiar to dismiss and looking forward A New History of Life brilliantly assembles insights from some of the latest scientific research to understand how life on Earth can and might evolve far into the future     **The Next Species** Michael Tennesen, 2015-03-17 Simultaneously sobering and exhilarating Michael Tennesen s wide ranging survey of disasters highlights both life s fragility and its metamorphosing persistence Booklist and describes what life on earth could look like after the next mass extinction A growing number of scientists agree we are headed toward a mass extinction perhaps in as little as 300 years Already there have been five mass extinctions in the last 600 million years including the Cretaceous Extinction during which an asteroid knocked out the dinosaurs Though these events were initially destructive they were also

prime movers of evolutionary change in nature And we can see some of the warning signs of another extinction event coming as our oceans lose both fish and oxygen and our lands lose both predators and prey In *The Next Species* Michael Tennesen questions what life might be like after it happens In thoughtful provocative ways Tennesen discusses the future of nature and whether humans will make it through the bottleneck of extinction Could life suddenly get very big as it did before the arrival of humans Could the conquest of Mars lead to another form of human Could we upload our minds into a computer and live in a virtual reality How would we recognize the next humans Are they with us now Tennesen delves into the history of the planet and travels to rainforests canyons craters and caves all over the world to explore the potential winners and losers of the next era of evolution His predictions based on reports and interviews with top scientists have vital implications for life on earth today *The Next Species* is an engrossing history of life the dismal changes wrought by man and a forecast of life after the sixth mass extinction Kirkus Reviews     *Insect Biodiversity* Robert G. Foottit, Peter H. Adler, 2018-04-03 Volume Two of the new guide to the study of biodiversity in insects Volume Two of *Insect Biodiversity Science and Society* presents an entirely new companion volume of a comprehensive resource for the most current research on the influence insects have on humankind and on our endangered environment With contributions from leading researchers and scholars on the topic the text explores relevant topics including biodiversity in different habitats and regions taxonomic groups and perspectives Volume Two offers coverage of insect biodiversity in regional settings such as the Arctic and Asia and in particular habitats including crops caves and islands The authors also include information on historical cultural technical and climatic perspectives of insect biodiversity This book explores the wide variety of insect species and their evolutionary relationships Case studies offer assessments on how insect biodiversity can help meet the needs of a rapidly expanding human population and examine the consequences that an increased loss of insect species will have on the world This important text Offers the most up to date information on the important topic of insect biodiversity Explores vital topics such as the impact on insect biodiversity through habitat loss and degradation and climate change With its companion Volume I presents current information on the biodiversity of all insect orders Contains reviews of insect biodiversity in culture and art in the fossil record and in agricultural systems Includes scientific approaches and methods for the study of insect biodiversity The book offers scientists academics professionals and students a guide for a better understanding of the biology and ecology of insects highlighting the need to sustainably manage ecosystems in an ever changing global environment     *Geology and Plant Life* Arthur R. Kruckeberg, 2004 This title the result of more than 40 years of research into the question of why certain plants grow on certain soils and certain terrain structures and what happens when this relationship is disrupted by human agents It draws on case histories from around the world     *The Sauropod Dinosaurs* Mark Hallett, Mathew J. Wedel, 2016-11-01 The best illustrated and most comprehensive book ever published on the largest land animals the world has ever known From *The Land Before Time* to Jurassic Park images of fantastically large long necked plant eating dinosaurs

have captured our imaginations These are the sauropods centerpieces of museums and gentle giants of the distant past Imagine what it must have been like to crest a hill and see in the valley below not just one sauropod but an entire herd feeding its way across the landscape The most massive land animals ever to have lived sauropods roamed widely across the continents through most of the Age of Dinosaurs from about 220 to 65 million years ago They reached incredible sizes giving rise to the question Why were they so big Early guesses suggested that they gained protection from predators by virtue of their size which also allowed them to reach the tops of trees in order to eat leaves and conifer needles More recent hypotheses hold that they needed a long and complicated digestive tract due to their consumption of low nutrient food sources size was an offshoot of that need Whatever the explanation there is little doubt that natural selection produced something extraordinary when the Sauropoda diversified into a wide variety of species This book combines majestic artwork and the best of paleontological research to resurrect the lives of sauropods The Sauropod Dinosaurs shows how these amazing creatures raised and defended their young traveled in groups and interacted with the rich diversity of Mesozoic plants and animals Beautiful enough to sit on the coffee table the book also serves as the best reference available on these bygone giants Anyone with a passion for dinosaurs or prehistoric life will cherish this once in a generation masterpiece The book includes the following features Over 200 full color illustrations More than 100 color photographs from museums field sites and collections around the world Thoughtfully placed drawings and charts Clearly written text reviewed by major sauropod researchers Descriptions of the latest sauropod concepts and discoveries A field guide to major groups of sauropods Detailed skeletal reconstructions and anatomical restorations A comprehensive glossary

**Eocene Biodiversity**

Gregg F. Gunnell, 2012-12-06 Initially this work was designed to document and study the diversification of modern mammalian groups and was quite successful and satisfying However as field and laboratory work continued there began to develop a suspicion that not all of the Eocene story was being told It became apparent that most fossil samples especially those from the American West were derived from similar preservational circumstances and similar depositional settings A program was initiated to look for other potential sources of fossil samples either from non traditional lithologies or from geographic areas that were not typically sampled As this program of research grew it began to demonstrate that different lithologies and different geographic areas told different stories from those that had been developed based on more typical faunal assemblages This book is conceived as an introduction to non traditional Eocene fossils samples and as a place to document and discuss features of these fossil assemblages that are rare or that come from rarely represented habitats

**Biosphere to Lithosphere** Terry O'Connor, 2016-09-12 Taphonomic studies are a major methodological advance the effects of which have been felt throughout archaeology Zooarchaeologists and archaeobotanists were the first to realise how vital it was to study the entire process of how food enters the archaeological record and taphonomy brought to a close the era when the study of animal bones and plant remains from archaeological sites were regarded mainly as environmental

indicators This volume is indicative of recent developments in taphonomic studies hugely diverse research areas are being explored many of which would have been totally unforeseeable only a quarter of a century ago **History of Insects** A.P. Rasnitsyn, Donald L. Quicke, 2007-05-29 This is the first single book to cover the whole of the fossil history of insects so comprehensively The volume embraces subjects from the history of insect palaeontology to the diagnostic features of all insect orders both extant and extinct **The Age of Dinosaurs in South America** Fernando E. Novas, 2009 The remarkable dinosaur faunas of South America **Amniote Origins** Stuart Sumida, Karen L.M Martin, 1997-01-08 Amniote Origins integrates modern systematic methods with studies of functional and physiological processes and illustrates how studies of paleobiology can be illuminated by studies of neonatology For this reason comparative anatomists and physiologists functional morphologists zoologists and paleontologists will all find this unique volume very useful Inspired by the prospect of integrating fields that have long been isolated from one another Amniote Origins provides a thorough and interdisciplinary synthesis of one of the classic transitions of evolutionary history Integrates modern systematic methods with studies of functional and physiological processes Illustrates how studies of paleobiology can be illuminated by studies of neonatology Provides a thorough and interdisciplinary synthesis of one of the classic transitions of evolutionary history

*Paleontology in Ecology and Conservation* Julien Louys, 2012-04-25 The fossil record contains unique long term insights into how ecosystems form and function which cannot be determined simply by examining modern systems It also provides a record of endangered species through time which allow us to make conservation decisions based on thousands to millions of years of information The aim of this book is to demonstrate how palaeontological data has been or could be incorporated into ecological or conservation scientific studies This book will be written by palaeontologists for modern ecologists and conservation scientists Manuscripts will fall into one or a combination of four broad categories case studies review articles practical considerations and future directions This book will serve as both a how to guide and provide the current state of knowledge for this type of research It will highlight the unique and critical insights that can be gained by the inclusion of palaeontological data into modern ecological or conservation studies **Evolution of Cenozoic Land Mammal Faunas and Ecosystems** Isaac Casanovas-Vilar, Lars W. van den Hoek Ostende, Christine M. Janis, Juha Saarinen, 2023-08-08 This volume presents an array of different case studies which take as primary material data sourced from the NOW New and Old Worlds database of fossil mammals The NOW database was one of the very first large paleobiological databases and since 1996 it has been expanded from including mainly Neogene European land mammals to cover the entire Cenozoic at a global scale In the last two decades the number of works that are based in the use of huge databases to explore ecological and evolutionary questions has increased exponentially and even though the importance of big data in paleobiological research has been outlined in selected chapters of general works no volume has appeared before this one which solely focuses on the databases as a primary source in reconstructing the past The purpose of this book is to provide an illustrative volume



showing the importance of big data in paleobiological research and presenting a broad array of unpublished examples and case studies. The book is mainly aimed to professional palaeobiologists working with Cenozoic land mammals but the scope of the book is broad enough to fit the interest for evolutionary biologists, paleoclimatologists and paleoecologists. The volume is divided in four parts. The first part includes two chapters on the development of large paleobiological databases providing a first hand account on the logic and the functioning of these databases. This is a much needed perspective which is ignored by most researchers and users of such databases and even if centered in the NOW database the lessons that can be learned from this part can be extended to other examples. After this introductory part the body of the book follows and is divided into three parts: patterns in regional faunas, large scale patterns and processes and ecological, biogeographical and evolutionary patterns of key taxa. Each chapter is written by well known specialists in the field with some participation of members of the NOW advisory board. The array of selected mammal taxa ranges from carnivores, equids, ruminants and rodents to the genus *Homo*. The topics studied also include the diversification and radiation of major clades, large scale paleobiogeographical patterns, the evolution of ecomorphological patterns and paleobiological problems such as evolution of body size or species longevity. In most cases the results are discussed in relation to protracted environmental or paleogeographic changes.

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