

Peter W. Price

# Macroevolutionary Theory on Macroecological Patterns



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# Macroevolutionary Theory On Macroecological Patterns

**Kleber Del Claro, Paulo S.  
Oliveira, Victor Rico-Gray**



## **Macroevolutionary Theory On Macroecological Patterns:**

**Macroevolutionary Theory on Macroecological Patterns** Peter W. Price, 2003 Table of contents The Macroecological Perspective José Alexandre Felizola Diniz-Filho, 2023-11-27 This comprehensive volume discusses the patterns and processes analyzed in macroecology with a distinct look at the theoretical and methodological issues underlying the discipline as well as deeper epistemological matters The book serves as a synthesis of macroecological literature that has been published since Brown and Maurer proposed and defined the term macroecology in 1989 Author Jos Alexandre Felizola Diniz Filho draws from the different disciplines and branches ecology evolutionary biology physiology behavioral sciences climatology and paleontology that make up macroecology to present a full holistic picture of where the discipline stands Through ten chapters Diniz Filho moves from a discussion of what macroecology actually is to macroecological modeling to the more applied side of the discipline covering topics such as richness and diversity patterns and patterns in body size The book concludes with a synthesis of how macroecological research is done in a theoretical and operational sense as well as unifying explanations for each of the macroecological patterns discussed moving on to evaluate which theories and models are still useful and which ones can be abandoned The book is intended for academics young researchers and students interested in macroecology and conservation biogeography In addition because of the integrative nature of macroecology and the theoretical and methodological background in the book it can be of interest to researchers working in related fields including but not limited to ecology and evolutionary biology

**Ecology - Volume I** Antonio Bodini , Stefan Klotz, 2009-10-20 Ecology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Ecology is the study of the interrelationships between living organisms and their environment The term ecology was introduced by Ernst Haeckel at the end of the nineteenth century Since that time spectacular advances have been made Much has been learned about the relationship between organisms and environmental factors and about the processes that regulate the abundance and distribution of species The Theme on Ecology with contributions from distinguished experts in the field discusses the Science of Ecology for a Sustainable World The two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Tropical Biology and Conservation Management - Volume V** Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal

origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

The Princeton Guide to Ecology Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field's major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere

management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management

**Foundations of Restoration Ecology** Donald A. Falk, Margaret A. Palmer, Joy B. Zedler, 2013-03-19 As the practical application of ecological restoration continues to grow there is an increasing need to connect restoration practice to areas of underlying ecological theory Foundations of Restoration Ecology is an important milestone in the field bringing together leading ecologists to bridge the gap between theory and practice by translating elements of ecological theory and current research themes into a scientific framework for the field of restoration ecology Each chapter addresses a particular area of ecological theory covering traditional levels of biological hierarchy such as population genetics demography community ecology as well as topics of central relevance to the challenges of restoration ecology such as species interactions fine scale heterogeneity successional trajectories invasive species ecology ecophysiology Several chapters focus on research tools research design statistical analysis modeling or place restoration ecology research in a larger context large scale ecological phenomena macroecology climate change and paleoecology evolutionary ecology The book makes a compelling case that a stronger connection between ecological theory and the science of restoration ecology will be mutually beneficial for both fields restoration ecology benefits from a stronger grounding in basic theory while ecological theory benefits from the unique opportunities for experimentation in a restoration context Foundations of Restoration Ecology advances the science behind the practice of restoring ecosystems while exploring ways in which restoration ecology can inform basic ecological questions It provides the first comprehensive overview of the theoretical foundations of restoration ecology and is a must have volume for anyone involved in restoration research teaching or practice

### **International Encyclopedia of Geography, 15**

**Volume Set** Noel Castree, Michael F. Goodchild, Audrey Kobayashi, Weidong Liu, Richard A. Marston, 2017-03-20 Zweifelsohne das Referenzwerk zu diesem weitgefächerten und dynamischen Fachgebiet The International Encyclopedia of Geography ist das Ergebnis einer einmaligen Zusammenarbeit zwischen Wiley und der American Association of Geographers AAG beleuchtet und definiert Konzepte Forschung und Techniken in der Geographie und zugehörigen Fachgebieten Die Enzyklopädie ist als Online Ausgabe und 15 bändige farbige Printversion erhältlich Unter der Mitarbeit einer Gruppe von Experten aus aller Welt ist ein umfassender und fundierter Überblick über die Geographie in allen Erdteilen entstanden Enthält mehr als 1 000 Einträge zwischen 1 000 und 10 000 Wörtern die verständlich in grundlegende Konzepte einführen komplexe Themen erläutern

utsch und Informationen zu geographischen Gesellschaften aus aller Welt enthalten Entstanden unter der Mitarbeit von mehr als 900 Wissenschaftlern aus über 40 Ländern und bietet damit einen umfassenden und fundierten Überblick über die Geographie in allen Erdteilen. Deckt das Fachgebiet umfassend ab und berücksichtigt auch die Richtungen Humangeographie, Physikalische Geographie, geographische Informationswissenschaften und Systeme Erdwissenschaften und Umweltwissenschaften. Führt interdisziplinäre Sichtweisen zu geographischen Themen und Verfahren zusammen, die auch für die Sozialwissenschaften, Geisteswissenschaften, Naturwissenschaften und Medizin von Interesse sind. Printausgabe durchgängig in Farbe mit über 1.000 Illustrationen und Fotos. Online-Ausgabe wird jährlich aktualisiert.

**Macroevolution** Emanuele Serrelli, Nathalie Gontier, 2015-02-13 This book is divided in two parts, the first of which shows how beyond paleontology and systematics macroevolutionary theories apply key insights from ecology and biogeography, developmental biology, biophysics, molecular phylogenetics and even the sociocultural sciences to explain evolution in deep time. In the second part, the phenomenon of macroevolution is examined with the help of real-life history case studies on the evolution of eukaryotic sex, the formation of anatomical form and body plans, extinction and speciation events of marine invertebrates, hominin evolution and species conservation ethics. The book brings together leading experts who explain pivotal concepts such as Punctuated Equilibria, Stasis, Developmental Constraints, Adaptive Radiations, Habitat Tracking, Turnovers, Mass Extinctions, Species Sorting, Major Transitions, Trends and Hierarchies, key premises that allow macroevolutionary epistemic frameworks to transcend microevolutionary theories that focus on genetic variation, selection, migration and fitness. Along the way, the contributing authors review ongoing debates and current scientific challenges, detail new and fascinating scientific tools and techniques that allow us to cross the classic borders between disciplines, demonstrate how their theories make it possible to extend the Modern Synthesis, present guidelines on how the macroevolutionary field could be further developed and provide a rich view of just how it was that life evolved across time and space. In short, this book is a must-read for active scholars and because the technical aspects are fully explained, it is also accessible for non-specialists. Understanding evolution requires a solid grasp of above-population phenomena. Species are real biological individuals and abiotic factors impact the future course of evolution. Beyond observation, when the explanation of macroevolution is the goal, we need both evidence and theory that enable us to explain and interpret how life evolves at the grand scale.

Conservation Paleobiology Gregory P. Dietl, Karl W. Flessa, 2017-11-17 In conservation, perhaps no better example exists of the past informing the present than the return of the California condor to the Vermilion Cliffs of Arizona. Extinct in the region for nearly one hundred years, condors were successfully reintroduced starting in the 1990s in an effort informed by the fossil record: condor skeletal remains had been found in the area's late Pleistocene cave deposits. The potential benefits of applying such data to conservation initiatives are unquestionably great, yet integrating the relevant disciplines has proven challenging. Conservation Paleobiology gathers a remarkable array of scientists from Jeremy B. C. Jackson to Geerat J. Vermeij to provide an authoritative overview of how

paleobiology can inform both the management of threatened species and larger conservation decisions Studying endangered species is difficult They are by definition rare some exist only in captivity and for those still in their native habitats any experimentation can potentially have a negative effect on survival Moreover a lack of long term data makes it challenging to anticipate biotic responses to environmental conditions that are outside of our immediate experience But in the fossil and pre-fossil records from natural accumulations such as reefs shell beds and caves to human made deposits like kitchen middens and archaeological sites enlightening parallels to the Anthropocene can be found that might serve as a primer for present day predicaments Offering both deep time and near time perspectives and exploring a range of ecological and evolutionary dynamics and taxa from terrestrial as well as aquatic habitats Conservation Paleobiology is a sterling demonstration of how the past can be used to manage for the future giving new hope for the creation and implementation of successful conservation programs

**Insect Bioecology and Nutrition for Integrated Pest Management** Antonio Ricardo Panizzi, Jose R. P. Parra, 2012-03-08 The field of insect nutritional ecology has been defined by how insects deal with nutritional and non nutritional compounds and how these compounds influence their biology in evolutionary time In contrast Insect Bioecology and Nutrition for Integrated Pest Management presents these entomological concepts within the framework of integrated pest management

*The History and Philosophy of Science* Nandan Bhattacharya, 2022-12-05 This book provides an in depth analysis of the history and evolution of the major disciplines of science which include the basic sciences bioscience natural sciences and medical science with special emphasis on the Indian perspective While academic interest shown in the history and philosophy of science dates back to several centuries serious scholarship on how the sciences and the society interact and influence each other can only be dated back to the twentieth century This volume explores the ethical and moral issues related to social values along with the controversies that arise in relation to the discourse of science from the philosophical perspectives The book sheds light on themes that have proved to have a significant and overwhelming influence on present day civilisation It takes the reader through a journey on how the sciences have developed and have been discussed to explore key themes like the colonial influences on science how key scientific ideas have developed from Aristotle to Newton history of ancient Indian mathematics agency representation deviance with regard to the human body in science bioethics mental health psychology and the sciences setting up of the first teaching departments for subjects such as medicine ecology and physiology in India recent research in chemical technology and even the legacy of ancient Indian scientific discoveries A part of the Contemporary Issues in Social Science Research series this interdisciplinary work will be of immense interest to scholars and researchers of philosophy modern history sociology of medicine physical sciences bioscience chemistry and medical sciences It will be of interest to the general reader also

**The Theory of Evolution** Samuel M. Scheiner, David P. Mindell, 2020-01-07 Darwin's nineteenth century writings laid the foundations for modern studies of evolution and theoretical developments in the mid twentieth century fostered the Modern Synthesis Since that time

a great deal of new biological knowledge has been generated including details of the genetic code lateral gene transfer and developmental constraints Our improved understanding of these and many other phenomena have been working their way into evolutionary theory changing it and improving its correspondence with evolution in nature And while the study of evolution is thriving both as a basic science to understand the world and in its applications in agriculture medicine and public health the broad scope of evolution operating across genes whole organisms clades and ecosystems presents a significant challenge for researchers seeking to integrate abundant new data and content into a general theory of evolution This book gives us that framework and synthesis for the twenty first century The Theory of Evolution presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous fields within evolutionary biology ranging from biogeography to multilevel selection speciation and macroevolutionary theory By presenting current syntheses of evolution s theoretical foundations and their growth in light of new datasets and analyses this collection will enhance future research and understanding

**Ecological Paradigms Lost** Beatrix Beisner, 2005-08-23 This edited volume in the Theoretical Ecology series addresses the historical development and evolution of theoretical ideas in the field of ecology Not only does Ecological Paradigms Lost recount the history of the discipline by practitioners of the science of ecology it includes commentary on these historical reflections by philosophers of science Even though the theories discussed are in many cases at the forefront of research the language and approach make this material accessible to non theoreticians The book is structured in 5 major sections including population ecology epidemiology community ecology evolutionary biology and ecosystem ecology In each section a chapter by an eminent experienced ecologist is complemented by analysis from a newer cutting edge researcher Reflection on the past and future of ecology A historical overview of major ideas in the field of ecology Pairing of historical views by ecologists along with a philosophical commentary directed at the practicing scientists views by a philosopher of science Historical analysis by practicing ecologists including anecdotal experiences that are rarely recorded Based on a very popular symposium at the 2002 Ecological Society of America annual meeting in Tucson AZ

*Galling Arthropods and Their Associates* K. Ozaki, J. Yukawa, T. Ohgushi, P.W. Price, 2007-02-25 This book is the result of an international symposium on gall inducing arthropods which was held September 5-9 2005 in Kyoto Japan It was organized as the 4th international symposium on gall inducing insects and as the symposium of the International Union of Forestry Research Organizations IUFRO working group 7.03.02 Gall Inducing Insects The book addresses recent developments in the ecology evolution systematics physiology and biodiversity of gall inducing arthropods with individual contributions ranging in scope from detailed descriptions to profoundly synthetic studies One underlying theme of the book is the various impacts of gall induction that indirectly affect insect communities on the host plant The other important contribution is the highly intricate and dynamic interactions between galling arthropods and their uniquely specialized host plants Included also are chapters that discuss biodiversity and distribution patterns of gall inducing arthropods and biological control of invasive gall



inducing arthropods and of invasive trees We believe that this book makes an important contribution to the knowledge of galling arthropods and their associates and to the development of robust general principles of the ecology and evolution of these organisms

**Biological Networks** François Képès, 2007 This volume presents a timely and comprehensive overview of biological networks at all organization levels in the spirit of the complex system approach It discusses the transversal issues and fundamental principles as well as the overall structure dynamics and modeling of a wide array of biological networks at the molecular cellular and population levels Anchored in both empirical data and a strong theoretical background the book therefore lends valuable credence to the complex systems approach

The Geographic Mosaic of Coevolution John N. Thompson, 2005-06-15 Coevolution reciprocal evolutionary change in interacting species driven by natural selection is one of the most important ecological and genetic processes organizing the earth's biodiversity most plants and animals require coevolved interactions with other species to survive and reproduce The Geographic Mosaic of Coevolution analyzes how the biology of species provides the raw material for long term coevolution evaluates how local coadaptation forms the basic module of coevolutionary change and explores how the coevolutionary process reshapes locally coevolving interactions across the earth's constantly changing landscapes Picking up where his influential The Coevolutionary Process left off John N Thompson synthesizes the state of a rapidly developing science that integrates approaches from evolutionary ecology population genetics phylogeography systematics evolutionary biochemistry and physiology and molecular biology Using models data and hypotheses to develop a complete conceptual framework Thompson also draws on examples from a wide range of taxa and environments illustrating the expanding breadth and depth of research in coevolutionary biology

**Chance in Evolution** Grant Ramsey, Charles H. Pence, 2016-10-25 This illuminating volume explores the effects of chance on evolution covering diverse perspectives from scientists philosophers and historians The evolution of species from single celled organisms to multicellular animals and plants is the result of a long and highly chancy history But how profoundly has chance shaped life on earth And what precisely do we mean by chance Bringing together biologists philosophers of science and historians of science Chance in Evolution is the first book to untangle the far reaching effects of chance contingency and randomness on the evolution of life The book begins by placing chance in historical context starting with the ancients and moving through Darwin to contemporary biology It documents the shifts in our understanding of chance as Darwin's theory of evolution developed into the modern synthesis and how the acceptance of chance in Darwinian theory affected theological resistance to it Other chapters discuss how chance relates to the concepts of genetic drift mutation and parallel evolution as well as recent work in paleobiology and the experimental evolution of microbes By engaging in collaboration across biology history philosophy and theology this book offers a comprehensive overview both of the history of chance in evolution and of our current understanding of the impact of chance on life

**The Insects** P. J. Gullan, P. S. Cranston, 2014-11-03 Insects represent over half of the planet's biological diversity This popular

textbook provides a comprehensive introduction to this extraordinary diversity and places entomology central to the theory and practice of evolutionary and ecological studies Fully revised this fifth edition opens with a chapter concerning the popular side of insect studies including insects in citizen science zoos and butterfly houses and insects as food for humans and animals Key features of insect structure function behaviour ecology and classification are integrated with appropriate molecular studies Much of the book is organized around major biological themes living on the ground in water on plants in colonies and as predators parasites parasitoids and prey insects A strong evolutionary theme is maintained throughout There is major revision to the chapter on systematics and a new chapter Insects in a Changing World includes insect responses to and the consequences of both climate change and human assisted global alterations to distributions Updated Taxoboxes demonstrate topical issues and provide concise information on all aspects of each of the 28 major groupings orders of insects plus the three orders of non insect hexapods New boxes describe a worrying increase in insect threats to landscape and commercial trees including eucalypts palms and coffee and explain the value of genetic data including evolutionary developmental biology and DNA barcoding in insect biodiversity studies The authors maintain the clarity and conciseness of earlier editions and extend the profuse illustrations with new hand drawn figures Over 50 colour photographs together with the informative text and an accompanying website with links to video clips appendices textboxes and further reading lists encourage a deeper scientific study of insects The book is intended as the principal text for students studying entomology as well as a reference text for undergraduate and graduate courses in the fields of ecology agriculture fisheries and forestry palaeontology zoology and medical and veterinary science

Formal Methods in Macro-Biology François Fages, Carla Piazza, 2014-08-14 This book constitutes the refereed proceedings of the First International Conference on Formal Methods in Macro Biology FMMB 2014 held in Nouméa New Caledonia in September 2014 The 7 revised full and 3 short papers presented together with 7 invited presentations were carefully reviewed and selected from 17 submissions The scientific program consists of papers on a wide variety of topics including ecological systems medical applications logical frameworks and discrete continuous and hybrid models for the analysis of biological systems at macroscopic levels

**Insect Ecology**  
Peter W. Price, Robert F. Denno, Micky D. Eubanks, Deborah L. Finke, Ian Kaplan, 2011-08-18 Combining breadth of coverage with detail this logical and cohesive introduction to insect ecology couples concepts with a broad range of examples and practical applications It explores cutting edge topics in the field drawing on and highlighting the links between theory and the latest empirical studies The sections are structured around a series of key topics including behavioral ecology species interactions population ecology food webs communities and ecosystems and broad patterns in nature Chapters progress logically from the small scale to the large from individual species through to species interactions populations and communities Application sections at the end of each chapter outline the practicality of ecological concepts and show how ecological information and concepts can be useful in agriculture horticulture and forestry Each chapter ends with a summary

providing a brief recap followed by a set of questions and discussion topics designed to encourage independent and creative thinking

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