

**Peter W. Price**

# Macroevolutionary Theory on Macroecological Patterns



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# Macroevolutionary Theory On Macroecological Patterns

**François Fages, Carla Piazza**



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

**Macroevolutionary Theory on Macroecological Patterns**, 2003 Establishes a new vision of the central themes in ecology The study of distribution abundance and population size variation in animals is cast in an evolutionary framework The book argues that evolved characters of organisms such as morphology behavior and life history influence strongly their ecological relationships including the way that populations fluctuate through time and space The central ideas in the book are supported by data gathered from over 20 years of research primarily into plant and herbivore interactions concentrating on insects The huge diversity of insect herbivores provides the immense comparative power necessary for a strong evolutionary study of ecological principles The book is intended for all researchers and students of ecology evolutionary biology and behavior and for entomologists working in agriculture horticulture and forestry *Macroevolutionary Theory on Macroecological Patterns* Peter W. Price, 2003 Table of contents

**Relentless Evolution** John N. Thompson, 2022-12-22 At a glance most species seem adapted to the environment in which they live Yet species relentlessly evolve and populations within species evolve in different ways Evolution as it turns out is much more dynamic than biologists realized just a few decades ago In *Relentless Evolution* John N Thompson explores why adaptive evolution never ceases and why natural selection acts on species in so many different ways Thompson presents a view of life in which ongoing evolution is essential and inevitable Each chapter focuses on one of the major problems in adaptive evolution How fast is evolution How strong is natural selection How do species co opt the genomes of other species as they adapt Why does adaptive evolution sometimes lead to more rather than less genetic variation within populations How does the process of adaptation drive the evolution of new species How does coevolution among species continually reshape the web of life And more generally how are our views of adaptive evolution changing *Relentless Evolution* draws on studies of all the major forms of life from microbes that evolve in microcosms within a few weeks to plants and animals that sometimes evolve in detectable ways within a few decades It shows evolution not as a slow and stately process but rather as a continual and sometimes frenetic process that favors yet more evolutionary change

*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

### **Animal Body Size**

Felisa A. Smith, S. Kathleen Lyons, 2013-08-09 Galileo wrote that nature cannot produce a horse as large as twenty ordinary horses or a giant ten times taller than an ordinary man unless by miracle or by greatly altering the proportions of his limbs and especially of his bones a statement that wonderfully captures a long standing scientific fascination with body size Why are organisms the size that they are And what determines their optimum size This volume explores animal body size from a macroecological perspective examining species populations and other large groups of animals in order to uncover the patterns and causal mechanisms of body size throughout time and across the globe The chapters represent diverse scientific perspectives and are divided into two sections The first includes chapters on insects snails birds bats and terrestrial mammals and discusses the body size patterns of these various organisms The second examines some of the factors behind and consequences of body size patterns and includes chapters on community assembly body mass distribution life history and the influence of flight on body size

### 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

### **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

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

*Insect Biodiversity* Robert G. Foottit,Peter H. Adler,2017-10-02 Volume One of the thoroughly revised and updated guide to the study of biodiversity in insects The second edition of *Insect Biodiversity Science and Society* brings together in one comprehensive text contributions from leading scientific experts to assess the influence insects have on humankind and the earth's fragile ecosystems Revised and updated this new edition includes information on the number of substantial changes to entomology and the study of biodiversity It includes current research on insect groups classification regional diversity and a wide range of concepts and developing methodologies The authors examine why insect biodiversity matters and how the rapid evolution of insects is affecting us all 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 also examine the consequences that an increased loss of insect species will have on the world This important text Explores the rapidly increasing influence on systematics of genomics and next generation sequencing Includes developments in the use of DNA barcoding in insect systematics and in the broader study of insect biodiversity including the detection of cryptic species Discusses the advances in information science that influence the increased capability to gather manipulate and analyze biodiversity information Comprises scholarly contributions from leading scientists in the field *Insect Biodiversity Science and Society* highlights the rapid growth of insect biodiversity research and includes an expanded treatment of the topic that addresses the major insect groups the zoogeographic regions

of biodiversity and the scope of systematics approaches for handling biodiversity data      *Poplars and Willows* Jud G. Isebrands, Jim Richardson, 2014-02-12 Poplars and willows form an important component of forestry and agricultural systems providing a wide range of wood and non wood products This book synthesizes research on poplars and willows providing a practical worldwide overview and guide to their basic characteristics cultivation and use issues problems and trends Prominence is given to environmental benefits and the importance of poplar and willow cultivation in meeting the needs of people and communities sustainable livelihoods land use and development      **Insect Outbreaks Revisited** Pedro Barbosa, Deborah K. Letourneau, Anurag A. Agrawal, 2012-06-29 The abundance of insects can change dramatically from generation to generation these generational changes may occur within a growing season or over a period of years Such extraordinary density changes or outbreaks may be abrupt and ostensibly random or population peaks may occur in a more or less cyclic fashion They can be hugely destructive when the insect is a crop pest or carries diseases of humans farm animals or wildlife Knowledge of these types of population dynamics and computer models that may help predict when they occur are very important This important new book revisits a subject not thoroughly discussed in such a publication since 1988 and brings an international scale to the issue of insect outbreaks Insect Outbreaks Revisited is intended for senior undergraduate and graduate students in ecology population biology and entomology as well as government and industry scientists doing research on pests land managers pest management personnel extension personnel conservation biologists and ecologists and state county and district foresters      Biology of Gall Midges Junichi Yukawa, Makoto Tokuda, 2021-07-21 This book provides practical ecological ethological evolutionary and biogeographic data for gall inducing cecidomyiids their galls and host plants based on field surveys laboratory experiments and genetic analysis It refers to various researches on gall inducing insects published by a world of biologists Practical methods of field surveys and data analysis are presented as well as topics on parasitoids invasive pests and beneficial gall midges that would be useful for applied entomologists Readers can learn an ecological way of thinking through diverse interrelations between insects and plants and the analysis of ecological data from gall inducing cecidomyiids Galls can be easily observed in the field continuously from early to final stage of the development of galls and gall inducers because of their outstanding features and immobility It provides important data of the host plant such as phenology abundance as food resources and the survival of galled organs By taking these advantages many biologists have used galls and gall inducing insects as highly convenient organisms for a wide range of studies including ecology ethology evolution and biogeography The book primarily intends to present the appeal of galls and gall inducing insects for various biological studies In particular gall inducing cecidomyiids are ideal insects to study ecology and evolution It helps to open the doors to further cryptic study subjects Also integrating various ecological ethological evolutionary and biogeographic data as shown in this book can serve to further advance the macroevolutionary studies of insects      *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

*Écoscience*, 1994 *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

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 Noumea 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

*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 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 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      **Plant Galls** Denis Coelho de Oliveira, Rosy Mary dos Santos Isaías, 2025-03-21 This book provides topics on gall development chemistry and physiology focusing on galls from different parts of the world The chapters are devoted to get together basic knowledge and novelties on plant responses to the stimuli of diverse gall inducers on cell tissue and organism levels The information contained in this volume will set lights on crucial points that together explain how the plant gall inducer interactions establish and are successful in different natural environments

## Enjoying the Melody of Expression: An Psychological Symphony within **Macroevolutionary Theory On Macroecological Patterns**

In a global consumed by monitors and the ceaseless chatter of instantaneous communication, the melodic splendor and mental symphony developed by the prepared term often disappear in to the background, eclipsed by the constant sound and disruptions that permeate our lives. However, located within the pages of **Macroevolutionary Theory On Macroecological Patterns** a stunning fictional prize full of natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, this captivating masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed songs and profound influence resonating within each carefully crafted phrase. Within the depths with this touching analysis, we will investigate the book is main harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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