

# Pattern and Process in Macroecology

Kevin J. Gaston and Tim M. Blackburn



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# Pattern And Process In Macroecology

**John A Matthews**



## **Pattern And Process In Macroecology:**

Pattern and Process in Macroecology Kevin Gaston, Tim Blackburn, 2008-04-15 Issues of scale have become increasingly important to ecologists This book addresses the structure of regional large scale ecological assemblages or communities and the influence this has at a local small scale level This macroecological perspective is essential for the broader study of ecology because the structure and function of local communities cannot be properly understood without reference to the region in which they are situated The book reviews and synthesizes the issues of current importance in macroecology providing a balanced summary of the field that will be useful for biologists at advanced undergraduate level and above These general issues are illustrated by frequent reference to specific well studied local and regional assemblages an approach that serves to relate the macroecological perspective which is perhaps often difficult to comprehend to the everyday experience of local sites Macroecology is an expanding and dynamic discipline The broad aim of the book is to promote an understanding of why it is such an important part of the wider program of research into ecology Summarises the current macroecological literature Provides numerous examples of key patterns Explicitly links local and regional scale processes Exploits detailed knowledge of one species assemblage to explore broad issues in the structuring of biodiversity *Foundations of Macroecology* Felisa A. Smith, John L. Gittleman, James H. Brown, 2014-08-22 Macroecology is an approach to science that emphasizes description and explanation of patterns and processes at large spatial and temporal scales Some liken it to seeing the forest through the trees an apt ecological use of the proverbial phrase The term itself was introduced to modern literature by our authors James Brown and Brian Maurer in a seminal science paper in 1989 We then published books by both of these authors including Brown's *Macroecology* in 1995 which quickly traveled to the shelf of classics in ecology credited with cohering and inspiring a subfield of ecology proper While macroecology is to many a modern subfield the large scale perspective it advocates is implicit in earlier publications For example in 1898 de Liocourt studied the influence of management practices on the structure of French fir forests and characterized the distribution of tree size in three different stands His findings that in natural areas the number of trees declined exponentially with increasing diameter of the trunk allowed him to draw conclusions about the influence of management practices on tree distribution patterns Similarly other classic macroecological patterns including the species area relationship latitudinal gradient of species richness relationship between body size and metabolic rate species abundance distribution and species body size distribution were identified decades sometimes even centuries ago Consequently despite the scant twenty years that has elapsed since the term was coined macroecology has a deep and rich history *Foundations of Macroecology* traces and coheres that history charting an evolutionary trajectory to the rigorous macroecological research landscape science enjoys today The forty six papers span eight decades from 1920 to 1998 and include divergent perspectives of space time and taxonomic and habitat affiliation They are organized into two main parts *Macroecology before Macroecology* and *Dimensions of Macroecology* The latter is further

subdivided into six sections reflecting the subject matter Allometry and Body Size Evolutionary Dynamics Abundance and Distributions Species Diversity and Methodological Advances For each reprinted paper a macroecologist specializing in that area has written original commentary that places the paper in a broader context and explains why it is foundational

*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 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

**Speciation and Patterns of Diversity** Roger Butlin, Jon Bridle, Dolph Schluter, 2009-01-22 Bringing together the viewpoints of leading ecologists concerned with the processes that generate patterns of diversity and evolutionary biologists who focus on mechanisms of speciation this book opens up discussion in order to broaden understanding of how speciation affects patterns of biological diversity especially the uneven distribution of diversity across time space and taxa studied by macroecologists The contributors discuss questions such as Are species equivalent units providing meaningful

measures of diversity To what extent do mechanisms of speciation affect the functional nature and distribution of species diversity How can speciation rates be measured using molecular phylogenies or data from the fossil record What are the factors that explain variation in rates Written for graduate students and academic researchers the book promotes a more complete understanding of the interaction between mechanisms and rates of speciation and these patterns in biological diversity *Scaling and Uncertainty Analysis in Ecology* Jianguo Wu, K. Bruce Jones, Harbin Li, Orie L. Loucks, 2006-07-02 Primarily the book draws together a series of important case studies to provide a comprehensive review and synthesis of the most recent concepts theories and methods in scaling and uncertainty analysis It compares current definitions and ideas concerning scale within a coherent framework and examines two key scaling approaches similarity based scaling which is rooted in the idea of similitude or self similarity and dynamic model based scaling which emphasizes processes and mechanisms With case studies focusing on issues ranging from population to ecosystem processes from biodiversity to landscape patterns and from basic research to multidisciplinary management and policy making the book will appeal to both researchers and practitioners working on landscape issues It will also provide a valuable resource for graduate students and professional trainees in ecology environmental policy resource management and global change science **Body Size: The Structure and Function of Aquatic Ecosystems** Alan G. Hildrew, David G. Raffaelli, Ronni Edmonds-Brown, 2007-07-12 Ecologists have long struggled to predict features of ecological systems such as the numbers and diversity of organisms The wide range of body sizes in ecological communities from tiny microbes to large animals and plants is emerging as the key to prediction Based on the relationship between body size and features such as biological rates the physics of water and the amount of habitat available we may be able to understand patterns of abundance and diversity biogeography interactions in food webs and the impact of fishing adding up to a potential periodic table for ecology Remarkable progress on the unravelling describing and modelling of aquatic food webs revealing the fundamental role of body size makes a book emphasising marine and freshwater ecosystems particularly apt In this 2007 book the importance of body size is examined at a range of scales that will be of interest to professional ecologists from students to senior researchers Foundations of Restoration Ecology Society for Ecological Restoration International, 2016-11 Society for Ecological Restoration Cover *Human Biogeography* Alexander Harcourt, 2012-05-02 Human Biogeography is an outstanding publication that serves as an unrivaled synthesis and nexus of two disciplines human diversity and biogeography Mark Lomolino co author of Biogeography This is the first book to explain and illustrate what human biogeography is all about Moreover Human Biogeography gives us a highly persuasive demonstration that anyone looking for answers about our diversity as a species and our impact on the planet must take biogeography into account An outstanding work of scholarship supported by an immense depth and breadth of knowledge John Edward Terrell Regenstein Curator of Pacific Anthropology Field Museum of Natural History **The Structure and Dynamics of Geographic Ranges** Kevin J. Gaston, 2003 A synthesis of present

understanding of the structure of the geographic ranges of species which is a core issue in ecology and biogeography with implications for many of the environmental issues presently facing humankind Biodiversity Kevin J. Gaston, John I. Spicer, 2013-04-22 This concise introductory text provides a complete overview of biodiversity what it is how it arose its distribution why it is important human impact upon it and what should be done to maintain it Timely overview of the serious attempts made to quantify and describe biodiversity in a scientific way Acts as an easy entry point into the primary literature Provides real world examples of key issues including illustrations of major temporal and spatial patterns in biodiversity Designed primarily with undergraduate students and course lecturers in mind it will also be of interest to anyone who requires an overview of and entry to the vast literature on these topics The figures from in the book may be freely downloaded from the book website on wiley.com From Energetics to Ecosystems: The Dynamics and Structure of Ecological Systems N. Rooney, K.S. McCann, D.L.G. Noakes, 2006-12-02 Ecosystems are complex and enigmatic entities that are ultimately our life support systems Understanding these systems to the point of being able to predict their behaviour in the face of perturbations requires that researchers adopt a number of strategies that vary in both approach and scale This book in a sense is representative of some of the developments that have unfolded when math and physics met ecology Here some of the world's leading ecologists examine ecosystems from theoretical experimental and empirical viewpoints from energetics to ecosystems The book begins with simplifying and synthesizing nature's complex relationships It then moves on to explore the mapping between food web structure and function and ends with the role of theory in integrating different research areas From the breadth of systems analyzed to the rigor of approaches taken this book is not only a useful resource for students and researchers in ecology but serves as a fitting tribute to the life and work of Peter Yodzis *Essentials of Landscape Ecology* Kimberly A. With, 2019 Presents the principles theory methods and applications of landscape ecology and is supplemented by numerous examples and case studies from a variety of systems *Key Concepts in Geography* Nicholas Clifford, Sarah Holloway, Stephen P Rice, Gill Valentine, 2008-12-12 This book clearly outlines key concepts that all geographers should readily be able to explain It does so in a highly accessible way It is likely to be a text that my students will return to throughout their degree Dr Karen Parkhill Bangor University The editors have done a fantastic job This second edition is really accessible to the student and provides the key literature in the key geographical terms of scale space time place and landscape Dr Elias Symeonakis Manchester Metropolitan University An excellent introductory text for accessible overviews of key concepts across human and physical geography Professor Patrick Devine Wright Exeter University Including ten new chapters on nature globalization development and risk and a new section on practicing geography this is a completely revised and updated edition of the best selling standard student resource *Key Concepts in Geography* explains the key terms space time place scale landscape that define the language of geography It is unique in the reference literature as it provides in one volume concepts from both human geography and physical geography Four introductory chapters on

different intellectual traditions in geography situate and introduce the entries on the key concepts Each entry then comprises a short definition a summary of the principal arguments a substantive 5 000 word discussion the use of real life examples and annotated notes for further reading Written in an accessible way by established figures in the discipline the definitions provide thorough explanations of all the core concepts that undergraduates of geography must understand to complete their degree

*Encyclopedia of Theoretical Ecology* Dr. Alan Hastings, Dr. Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences

The Dictionary of Physical Geography David S. G. Thomas, 2016-02-23 This fully revised comprehensive fourth edition covers the whole field of physical geography including climate and atmosphere geomorphology biogeography hydrology oceans Quaternary environmental change soils remote sensing and GIS This new edition reflects developments in the discipline during the last decade with the expert advisory group providing an international perspective on the discipline of physical geography Over 2000 entries that are self contained or cross referenced include 200 that are new to this edition over 400 that are rewritten and updated and new supporting references and additional recommended reading in many others Entries removed from the last edition are available in the online resource This volume is the essential reference point for students of physical geography and related environmental disciplines lecturers and interested individuals alike

**Systemic Management** Charles W. Fowler, 2009-03-26 Systemic management describes a holistic objective and universally applicable form of management providing a framework for addressing environmental challenges such as global warming emergent diseases deforestation overpopulation the extinction crisis pollution over fishing and habitat destruction Its goals are the consistently sustainable relationships between humans and ecosystems between humans and other species and between humans and the biosphere This book presents a convincing argument that these goals and the means to achieve them can be inferred from empirical information It describes how comparisons between humans and other species reveal patterns that can serve to guide management toward true sustainability i e ways that are empirically observed to work in natural systems This objective approach has rarely been possible in conventional management because sustainability is invariably undermined by conflicting human values Systemic management is presented as a specialized process of pattern based decision making that avoids the inconsistency subjectivity and error in current management practice It clearly



demonstrates how mimicking nature's empirical examples of sustainability can circumvent anthropocentric tendencies to overuse/misuse human values in management and illustrates the science best suited for achieving sustainability through examples of research that address specific management questions

**Palaeogeography and Palaeobiogeography: Biodiversity in Space and Time** Paul Upchurch, Alistair J. McGowan, Claire S.C. Slater, 2011-10-24 Biogeography represents one of the most complex and challenging aspects of macroevolutionary research requiring input from both the earth and life sciences. Palaeogeographic reconstruction is frequently carried out by researchers with backgrounds in geology and palaeontology who are less likely to be familiar with the latest biogeographic techniques.

**Encyclopedia of Environmental Change** John A. Matthews, 2013-12-13 Accessibly written by a team of international authors, the Encyclopedia of Environmental Change provides a gateway to the complex facts, concepts, techniques, methodology, and philosophy of environmental change. This three-volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field. The encyclopedia includes all of the following aspects of environmental change: Diverse evidence of environmental change including climate change and changes on land and in the oceans; Underlying natural and anthropogenic causes and mechanisms; Wide-ranging local, regional, and global impacts from the polar regions to the tropics; Responses of geoecosystems and human environmental systems in the face of past, present, and future environmental change; Approaches, methodologies, and techniques used for reconstructing, dating, monitoring, modelling, projecting, and predicting change; Social, economic, and political dimensions of environmental issues; environmental conservation and management and environmental policy. Over 4,000 entries explore the following key themes and more: Conservation; Demographic change; Environmental management; Environmental policy; Environmental security; Food security; Glaciation; Green Revolution; Human impact on environment; Industrialization; Land-use change; Military impacts on environment; Mining and mining impacts; Nuclear energy; Pollution; Renewable resources; Solar energy; Sustainability; Tourism; Trade; Water resources; Water security; Wildlife conservation. The comprehensive coverage of terminology includes layers of entries ranging from one-line definitions to short essays, making this an invaluable companion for any student of physical geography, environmental geography, or environmental sciences.

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