

# ECOLOGICAL SCALE

THEORY AND APPLICATIONS

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DAVID L. PETERSON &  
V. THOMAS PARKER,  
EDITORS



COMPLEXITY IN ECOLOGICAL SYSTEMS

# Ecological Scale Theory And Applications

**Monica G. Turner, Robert H.  
Gardner, Robert V. O'Neill**



## **Ecological Scale Theory And Applications:**

*Ecological Scale* David Lawrence Peterson,V. Thomas Parker,1998 *Ecological Scale* provides invaluable perspectives on the application of the concepts of measurement analysis and inference in both theoretical and applied ecology ultimately providing a broad based understanding for resource managers and other ecological professionals

*Ecological Scale: Theory And Applications* , *Ecological Scale* David Lawrence Peterson,V. Thomas Parker,1998 Identifying scales of measurement analysis and inference is fundamental to the ability to assess and predict patterns and processes in ecology This book synthesizes a diverse previously scattered literature on scale in ecology Peterson and Parker have gathered contributions from scholars representing a wide range of disciplines including soil science plant ecology animal ecology and aquatic ecology

Park Science ,2000 **Scaling Relations in Experimental Ecology** Robert H. Gardner,W. Michael. Kemp,Victor S. Kennedy,John E. Petersen,2012-08-14 Ecology *Handbook of Scaling Methods in Aquatic Ecology* Laurent Seuront,Peter G. Strutton,2003-09-25 The evolution of observational instruments simulation techniques and computing power has given aquatic scientists a new understanding of biological and physical processes that span temporal and spatial scales This has created a need for a single volume that addresses concepts of scale in a manner that builds bridges between experimentalists and

**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

Ecology of Hierarchical Landscapes Jiquan Chen,2006 The idea for this book grew out of 1 the realisation that development of the theory of landscape ecology has now reached the point where rigorous field work is required to validate models test assumptions and ideas of scaling theory and refine our understanding of landscape features and their delineation 2 the relative scarcity of compilations that have examined the role of field research or interdisciplinary management applications in advancing the science of landscape

ecology and 3 the increasing amount of information coming out of the Chequamegon Integrated Field Project CIFP on relevant topics This book synthesises the experiences and lessons learned from the CIFP project and other relevant landscape studies in an attempt to demonstrate the utility of field studies and emerging technology to the advancement of the science This book is organised to synthesise and update knowledge on research topics mentioned previously with an emphasis on ecological consequences i e implications for ecological function of the approach to and understanding of these topics across levels of the ecological hierarchy

*A Companion to Environmental Geography* Noel Castree, David Demeritt, Diana Liverman, Bruce Rhoads, 2016-10-03 A Companion to Environmental Geography is the first book to comprehensively and systematically map the research frontier of human environment geography in an accessible and comprehensive way Cross cuts several areas of a discipline which has traditionally been seen as divided presenting work by human and physical geographers in the same volume Presents both the current state of the art research and charts future possibilities for the discipline Extends the term environmental geography beyond its traditional meanings to include new work on nature and environment by human and physical geographers not just hazards resources and conservation geographers Contains essays from an outstanding group of international contributors from among established scholars and rising stars in geography

**The Ecological Consequences of Environmental Heterogeneity** British Ecological Society. Symposium, 2000-08 The last decade has seen countless advances in the measurement and interpretation of the impacts of environmental heterogeneity upon organisms and ecological processes Progress has been made at a variety of scales of organisation Following a Symposium on Ecological Consequences of Environmental Heterogeneity a team of international experts has collaborated to produce this volume It discusses the effects of environmental heterogeneity the effects of spatial and temporal heterogeneity on individuals populations communities and biodiversity and the management and conservation implications of environment heterogeneity This book will prove to be an invaluable reference work not only to advanced students but also established researchers working in the field

**Pioneer Forest** James Mark Guldin, Greg F. Iffrig, Susan Flader, 2008 This collection of papers analyzes the Pioneer Forest a privately owned 150 000 acre working forest in the Missouri Ozarks on which the science and art of forest management has been practiced for more than 50 years The papers discuss how this half century of management has contributed to forest restoration and sustainability on the forest itself and through its example undergirded by a remarkable body of research throughout the Ozark region and beyond

*The SAGE Handbook of Biogeography* Andrew Millington, Mark Blumler, Udo Schickhoff, 2011-09-22 A superb resource for understanding the diversity of the modern discipline of biogeography and its history and future especially within geography departments I expect to refer to it often Professor Sally Horn University of Tennessee As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use Biogeography is interdisciplinary and a commonly voiced concern is that one biogeographer may not readily understand

another's research findings. A handbook like this is important for synthesising, situating, explaining and evaluating a large literature and pointing the reader to informative publications.

**Geographical Research** A valuable contribution in both a research and teaching context. If you are biologically trained it provides an extensive look into the geographical tradition of biogeography covering some topics that may be less familiar to those with an evolution/ecology background. Alternatively, if you are a geography student, researcher or lecturer, it will provide a useful reference and will be invaluable to the non-biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them.

**Adam C. Algar**

**Frontiers of Biogeography** The SAGE Handbook of Biogeography is a manual for scoping the past, present and future of biogeography that enable readers to consider where relevant how similar biogeographical issues are tackled by researchers in different schools. In line with the concept of all SAGE Handbooks, this is a retrospective and prospective overview of biogeography that will consider the main areas of biogeography researched by geographers. Detail a global perspective by incorporating the work of different schools of biogeographers. Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed. Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences. Aimed at an international audience of research students, academics, researchers and practitioners in biogeography, the text will attract interest from environmental scientists, ecologists, biologists and geographers alike.

**Historical Environmental Variation in Conservation and Natural Resource Management** John A. Wiens, Gregory D. Hayward, Hugh D. Safford, Catherine Giffen, 2012-07-09. In North America, concepts of Historical Range of Variability are being employed in land management planning for properties of private organizations and multiple government agencies. The National Park Service, U.S. Fish Wildlife Service, Bureau of Land Management, U.S. Forest Service and The Nature Conservancy all include elements of historical ecology in their planning processes. Similar approaches are part of land management and conservation in Europe and Australia. Each of these user groups must struggle with the added complication of rapid climate change, rapid land use change and technical issues in order to employ historical ecology effectively. **Historical Environmental Variation in Conservation and Natural Resource Management** explores the utility of historical ecology in a management and conservation context and the development of concepts related to understanding future ranges of variability. It provides guidance and insights to all those entrusted with managing and conserving natural resources: land use planners, ecologists, fire scientists, natural resource policy makers, conservation biologists, refuge and preserve managers and field practitioners. The book will be particularly timely as science-based management is once again emphasized in United States federal land management and as an understanding of the potential effects of climate change becomes more widespread among resource managers. Additional resources for this book can be found at [www.wiley.com/go/wiens/historicalenvironmentalvariation](http://www.wiley.com/go/wiens/historicalenvironmentalvariation).

**Hydrobiological Modelling** Brian J. Williams, 2006. The book describes models of aquatic ecosystems ranging from lakes to estuaries to the deep ocean. It provides a background in the physical and biological

processes numerical methods and elementary ecosystem models It describes two of the most widely used hydrodynamic models and presents a number of case studies The practice of modelling in management is discussed      **Landscape Ecology in Theory and Practice** Monica G. Turner, Robert H. Gardner, Robert V. O'Neill, 2007-05-08 An ideal text for students taking a course in landscape ecology The book has been written by very well known practitioners and pioneers in the new field of ecological analysis Landscape ecology has emerged during the past two decades as a new and exciting level of ecological study Environmental problems such as global climate change land use change habitat fragmentation and loss of biodiversity have required ecologists to expand their traditional spatial and temporal scales and the widespread availability of remote imagery geographic information systems and desk top computing has permitted the development of spatially explicit analyses In this new text book this new field of landscape ecology is given the first fully integrated treatment suitable for the student Throughout the theoretical developments modeling approaches and results and empirical data are merged together so as not to introduce barriers to the synthesis of the various approaches that constitute an effective ecological synthesis The book also emphasizes selected topic areas in which landscape ecology has made the most contributions to our understanding of ecological processes as well as identifying areas where its contributions have been limited Each chapter features questions for discussion as well as recommended reading      Foundation Papers in Landscape Ecology John A. Wiens, 2007 The editors begin with articles that illuminate the discipline's diverse scientific foundations such as L

*Fragmentation in Semi-Arid and Arid Landscapes* Kathleen A. Galvin, Robin S. Reid, Roy H. Behnke, Jr., N. Thompson Hobbs, 2007-10-12 Casual readers of the title of this book might be forgiven for thinking that it is a little esoteric far removed from the pressing day to day concerns of humans and wildlife in the drylands of the world But they could not be more wrong It addresses an issue of the utmost practical importance in the world today yet does so on the basis of exciting new theory about how the world operates Of the billion or so human beings who now live in the world's arid and semi arid lands a majority depend on natural resources for their livelihoods These natural resources include livestock and their forage as well as the wild biota that creates opportunities for tourism or subsistence harvesting Arid and semi arid lands are spread over a third of the world's land surface from Colorado to the Kalahari the Sahel to the Simpson the Altai Steppe to Amboseli Notwithstanding their diversity these lands are broadly characterized by low productivity management at large scales and great climate variability in short by high spatial and temporal heterogeneity This book is about the implications of that high spatial and temporal heterogeneity for life management and policy in arid and semi arid lands      **A Changing World** Felix Kienast, Otto Wildi, Sucharita Ghosh, 2007-03-16 Landscape Research has been established as an interdisciplinary field dealing with complex environmental processes at multiple spatial and temporal scales During the course of its history various societal technological and philosophical stimuli have shaped Landscape Research e.g. the declaration of Landscape Ecology in the 1930s and contemporary global technological and societal developments Modern landscape research presently uses

mathematics statistics and advanced simulation techniques to combine empirical observations with known theories from ecology physics geography social science and so on Knowledge is thus updated and quantified via models that are used for estimation hypothesis testing prediction and assessment of scenarios Advances in the computational sciences e g fast computers and vast array of software space science e g remote sensing and biological sciences e g genetics as well as new perspectives in the social sciences play important roles Research findings are implemented in conservation management urban planning and global change mitigation strategies This book identifies emerging fields and new challenges that are discussed within the framework of the driving forces of Landscape Development Rather than offering a comprehensive overview of all fields of Landscape Research the book addresses hot topics emphasizing major contemporary trends in these fields

The Landscape Ecology of Fire Donald McKenzie, Carol Miller, Donald A. Falk, 2011-01-04 Global warming is expected to change fire regimes likely increasing the severity and extent of wildfires in many ecosystems around the world What will be the landscape scale effects of these altered fire regimes Within what theoretical contexts can we accurately assess these effects We explore the possible effects of altered fire regimes on landscape patch dynamics dominant species tree shrub or herbaceous and succession sensitive and invasive plant and animal species and communities and ecosystem function Ultimately we must consider the human dimension what are the policy and management implications of increased fire disturbance and what are the implications for human communities

**Spatio-Temporal Heterogeneity** Pierre Dutilleul, 2011-05-26 Our living environment continuously changes in space and time This book explains how to capture and assess these changes through the relevant statistical framework It is a useful guide to students teachers and researchers in the fields of biology ecology and environmental science Codes on the accompanying CD ROM aid analyses

## The Enigmatic Realm of **Ecological Scale Theory And Applications**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Ecological Scale Theory And Applications** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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