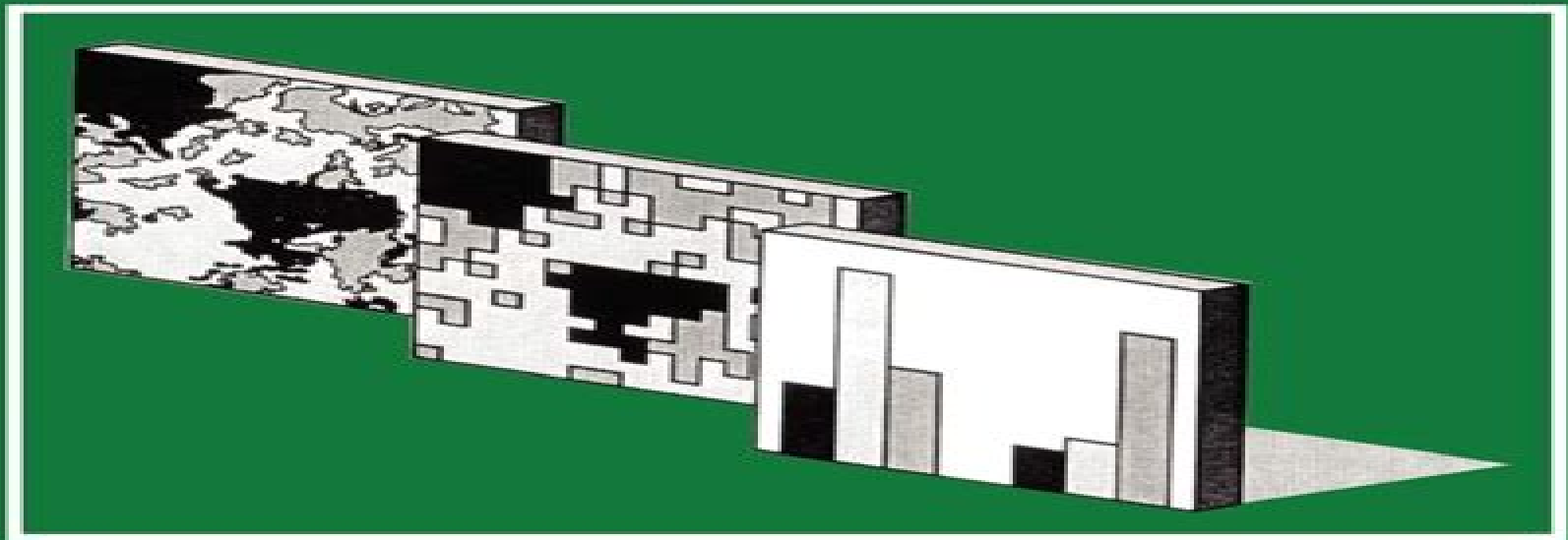


**Ecological Studies**

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# **Quantitative Methods in Landscape Ecology**



# Quantitative Landscape Ecology

**Jeffrey M. Klopatek, Robert H. Gardner**



## **Quantitative Landscape Ecology:**

Quantitative Methods in Landscape Ecology Robert H. Gardner, 1991 Landscape ecology as a modern interdisciplinary science is making use increasingly of quantitative research techniques adopted from other fields So far no synthetic reference has been available to those wishing to acquaint themselves with new approaches to quantitative analysis of spatial heterogeneity at the landscape level This book seeks to meet this need by providing a conceptual framework and illustrating potential applications for methods such as pattern analysis spatial statistics fractals modeling broad scale studies and extrapolation across scales Each technique is discussed in sufficient detail to be adaptable to a variety of research problems Quantitative Methods in Landscape Ecology will be an important resource for researchers and students of landscape and ecosystem ecology in understanding and analyzing the dynamics of complex spatial systems *Quantitative Methods in Landscape Ecology* Monica Goigel Turner, Robert H. Gardner, 1991

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**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

**Key Topics in Landscape Ecology** Jianguo Wu, Richard J. Hobbs, 2007-03-29 Landscape ecology is a relatively new area of study which aims to understand the pattern of interaction of biological and cultural communities within a landscape This book brings together leading figures from the field to provide an up to date survey of recent advances identify key research problems and suggest a future direction for development and expansion of knowledge Providing in depth reviews of the principles and methods for understanding landscape patterns and changes the book illustrates concepts with examples of innovative applications from different parts of the world Forming a current state of the science for the science of landscape ecology this book forms an essential reference for graduate students academics professionals and practitioners in ecology environmental science natural resource management and landscape planning and design

**Development and Perspectives of Landscape Ecology** O. Bastian, Uta Steinhardt, 2013-03-14 Development and status of landscape ecology subject of this book During the last decades landscape ecology has developed tremendously It concerns both the theoretical basis and practical application The roots of

landscape ecology are geography and biology The term landscape ecology was first coined by the German scientist Carl Troll in 1939 nce the devel opment center of landscape ecology was in Central Europe Recently also other parts of the world became powernd centers of landscape ecology es pecially Northern America American approaches partly differ essentially from the European because they are focused esp on biogeography and population dynamics In Europe however the geographical roots of land scape ecology playamajor role Landscape is defined as a complex of abiotic biotic and human components Mainly due to linguistic barriers the international discussion does not take notice of approaches and experiences from non anglophone countries in a sufficient manner Therefore this book considers more the German and European views on landscape ecology than the books which were published before It tries to bridge the gaps between theory and practice of landscape ecology as well between the Ger manlEuropean and American approach es The book gives a fundamental representation of landscape ecology which proves to be a young but an interesting and very important transdisci plinary science for the solution of environmental problems Both the theo retical basis and practical application of landscape ecology are considered

Landscape Ecology in Theory and Practice Monica G. Turner,Robert H. Gardner,2015-10-29 This work provides in depth analysis of the origins of landscape ecology and its close alignment with the understanding of scale the causes of landscape pattern and the interactions of spatial pattern with a variety of ecological processes The text covers the quantitative approaches that are applied widely in landscape studies with emphasis on their appropriate use and interpretation The field of landscape ecology has grown rapidly during this period its concepts and methods have matured and the published literature has increased exponentially Landscape research has enhanced understanding of the causes and consequences of spatial heterogeneity and how these vary with scale and they have influenced the management of natural and human dominated landscapes Landscape ecology is now considered mainstream and the approaches are widely used in many branches of ecology and are applied not only in terrestrial settings but also in aquatic and marine systems In response to these rapid developments an updated edition of Landscape Ecology in Theory and Practice provides a synthetic overview of landscape ecology including its development the methods and techniques that are employed the major questions addressed and the insights that have been gained

**Predictive Species and Habitat Modeling in Landscape Ecology** C. Ashton Drew,Yolanda F. Wiersma,Falk Huettmann,2010-11-25 Most projects in Landscape Ecology at some point define a species habitat association These models are inherently spatial dealing with landscapes and their configurations Whether coding behavioral rules for dispersal of simulated organisms through simulated landscapes or designing the sampling extent of field surveys and experiments in real landscapes landscape ecologists must make assumptions about how organisms experience and utilize the landscape These convenient working postulates allow modelers to project the model in time and space yet rarely are they explicitly considered The early years of landscape ecology necessarily focused on the evolution of effective data sources metrics and statistical approaches that could truly capture the spatial and temporal patterns and

processes of interest Now that these tools are well established we reflect on the ecological theories that underpin the assumptions commonly made during species distribution modeling and mapping This is crucial for applying models to questions of global sustainability Due to the inherent use of GIS for much of this kind of research and as several authors research involves the production of multicolored map figures there would be an 8 page color insert Additional color figures could be made available through a digital archive or by cost contributions of the chapter authors Where applicable would be relevant chapters GIS data and model code available through a digital archive The practice of data and code sharing is becoming standard in GIS studies is an inherent method of this book and will serve to add additional research value to the book for both academic and practitioner audiences

*Landscape Ecology* James Sanderson, 2020-02-10 Landscape Ecology a rapidly growing science quantifies the ways ecosystems interact It establishes links between activities in one region and repercussions in another Landscape Ecology A Top Down Approach serves as a general introduction to this emerging area of study In this book the authors take a top down approach They believe that

*Quantitative Approaches to Landscape Ecology* International Association of Landscape Ecology. UK Region. Conference, Tom Clare, D. C. Howard, 1999-01-01

**Ecological Planning** Forster Ndubisi, 2003-04-30 Chosen by Choice Magazine as an Outstanding Academic Title for 2003 Ecological planning is the process of understanding evaluating and providing options for the use of landscape to ensure a better fit with human habitation In this ambitious analysis Forster Ndubisi provides a succinct historical and comparative account of the various approaches to this process He then reveals how each of these approaches offers different and uniquely useful perspectives for understanding the dialogue between human and environmental processes Ndubisi begins by examining the philosophies behind and major contributors to ecological thinking during the past 150 years as well as the paradigm shift in planning that occurred in recent decades as a result of a growing global ecological awareness He then turns to landscape suitability analysis and discusses alternative approaches to ecological planning such as applied human ecology applied landscape ecology and others Finally he offers a comparative synthesis of the approaches in order to reveal the theoretical and methodological assumptions inherent when planners choose one approach over the other Ndubisi concludes that no one approach can by itself adequately address the whole spectrum of ecological planning issues For this reason he offers guidance as to when it may be appropriate for landscape architects and planners to emphasize one approach rather than another

**Data Analysis in Community and Landscape Ecology** R. H. Jongman, C. J. F. Ter Braak, O. F. R. van Tongeren, 1995-03-02 Ecological data has several special properties the presence or absence of species on a semi quantitative abundance scale non linear relationships between species and environmental factors and high inter correlations among species and among environmental variables The analysis of such data is important to the interpretation of relationships within plant and animal communities and with their environments In this corrected version of Data Analysis in Community and Landscape Ecology without using complex mathematics the contributors demonstrate the methods that have

proven most useful with examples exercises and case studies Chapters explain in an elementary way powerful data analysis techniques such as logic regression canonical correspondence analysis and kriging

**Geoecology: An Evolutionary Approach** Richard Huggett, 2002-09-11 Animals plants and soils interact with one another with the terrestrial spheres and with the rest of the Cosmos On land this rich interaction creates landscape systems or geoecosystems Geoecology investigates the structure and function of geoecosystems their components and their environment The author develops a simple dynamic systems model the brash equation to form the conceptual framework for the book suggesting an ecological and evolutionary approach Exploring internal of ecological interactions between geoecosystems and their near surface environments the atmosphere hydrosphere toposphere and lithosphere and external influences both geological and cosmic Geoecology presents geoecosystems as dynamic entities constantly responding to changes within themselves and their surroundings An evolutionary view emerges of geoeological systems and the animals plants and soils comprising them providing a new way of thinking for the whole environmental complex and the rich web of interdependencies contained therein

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

*Toward Gleasonian Landscape Ecology*, 2010 The fusion of individualistic community ecology with the Hutchinsonian niche concept enabled a broad integration of ecological theory spanning all the way from the niche characteristics of individual species to the composition structure and dynamics of ecological communities Landscape ecology has been variously described as the study of the structure function and management of large heterogeneous land areas Any reading of the published landscape ecology literature shows near uniformity in the adoption of a categorical patch mosaic paradigm However if biological communities are multivariate gradients of species composition with each species responding individualistically to particular combinations of limiting factors is a categorical patch based representation appropriate We evaluate the sufficiency of several patch based representations of vegetation at the landscape level to explain the composition of the plant community Classified vegetation maps all performed poorly in explaining the composition and structure of forest trees among plots Different categorical vegetation maps provided largely independent explanations of species variability Individual species models based on spectral topographic and climatic variables vastly out performed those produced using the classified maps By moving from a landscape ecological paradigm based on categorical patches to one based on quantitative species and environmental responses across continuous space it will be possible to both produce much more effective predictions of species distributions and ecological processes and remove much of the disjunction between landscape ecology and mainstream community ecology theory

*Landscape Ecological Analysis* Jeffrey M. Klopatek, Robert H. Gardner, 2012-12-06 Studies in landscape ecology focus on the effect of heterogeneity on ecosystem structure and function Vigorous growth in the field has included the development of methods and results that can be applied to an impressive range of environmental issues

The purpose of this book is to provide the reader with a current perspective on this rapidly developing science. This book features contributions by internationally renowned experts in the field that address a broad spectrum of political theoretical and applied aspects of the subject. Chapters describe a number of methods and models that are used at landscape and regional scales within the context of ecosystem management to assess changes in biodiversity and to evaluate sustainable landscape planning for cultural as well as natural settings. Also included are instructional models to assist in teaching.

Simulation Modeling of Forest Landscape Disturbances Ajith H. Perera, Brian R. Sturtevant, Lisa J. Buse, 2015-07-27

Forest landscape disturbances are a global phenomenon. Simulation models are an important tool in understanding these broad scale processes and exploring their effects on forest ecosystems. This book contains a collection of insights from a group of ecologists who address a variety of processes: physical disturbances such as drought, wind and fire; biological disturbances such as defoliating insects and bark beetles; anthropogenic influences; interactions among disturbances; effects of climate change on disturbances; and the recovery of forest landscapes from disturbances. All from a simulation modeling perspective. These discussions and examples offer a broad synopsis of the state of this rapidly evolving subject.

*Encyclopedia of Environmetrics* Abdel H. El-Shaarawi, Walter W. Piegorsch, 2002. A comprehensive overview of environmetric research and its applications. Environmetrics covers the development and application of quantitative methods in the environmental sciences. It provides essential tools for understanding, predicting and controlling the impacts of agents both man made and natural which affect the environment. Basic and applied research in this area covers a broad range of topics. Primary among these are the quantitative sciences such as statistics, probability and applied mathematics, chemometrics and econometrics. Applications are also important for example in ecology and environmental biology, public health, atmospheric science, geology, engineering, risk management and regulatory governmental policy amongst others. Divided into 12 sections, the Encyclopedia brings together over 600 detailed articles which have been carefully selected and reviewed through the collaborative efforts of the Editors in Chief and the appropriate Section Editor. Presented in alphabetical order, all the articles will include an explanatory introduction, extensive cross referencing and an up to date bibliography providing literature references for further reading. Presenting state of the art information in a readable, highly accessible style, the scope and coverage provided by the Encyclopedia of Environmetrics will ensure its place as the landmark reference for the many scientists, educators and decision makers working across this multidisciplinary field. An essential reference tool for university libraries, research laboratories, government institutions and consultancies concerned with the environmental sciences, the Encyclopedia of Environmetrics brings together for the first time comprehensive coverage of the full range of topics, techniques and applications covered by this multidisciplinary field. There is currently no central reference source which addresses the needs of this multidisciplinary community. This new Encyclopedia will fill this gap by providing a comprehensive source of relevant fundamental concepts in environmetric research, development and applications for

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Kimble, 2000-09-15 Grazing lands represent the largest and most diverse land resource taking up over half the earth's land  
surface The large area grazing land occupies its diversity of climates and soils and the potential to improve its use and  
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