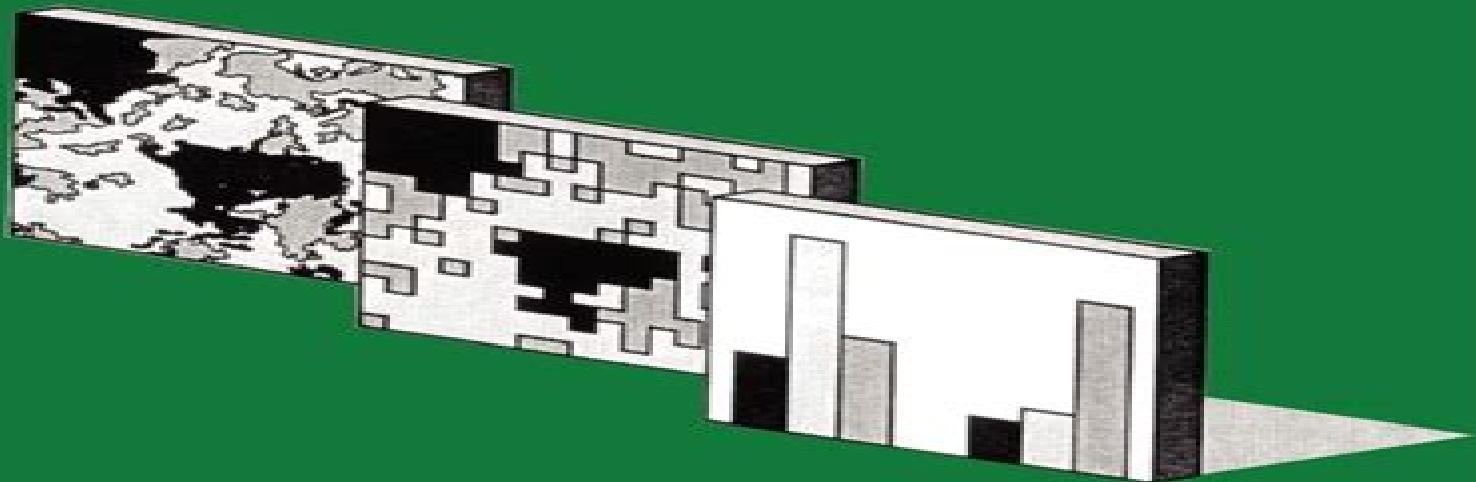


Ecological Studies

Monica G. Turner
Robert H. Gardner **Editors**

Quantitative Methods in Landscape Ecology



Quantitative Landscape Ecology

**C. Ashton Drew, Yolanda F.
Wiersma, Falk Huettmann**



Quantitative Landscape Ecology:

Quantitative Methods in Landscape Ecology Monica G. Turner, 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 *Quantitative Methods in Landscape Ecology* Monica G. Turner, Robert H. Gardner, 1992-07-30 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 spatial 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 is an important resource for researchers and students of landscape and ecosystem ecology in understanding and analyzing the dynamics of complex spatial systems *Quantitative Approaches to Landscape Ecology* T. Clare, 2000 **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 **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 once the development center of landscape ecology was in Central Europe Recently also other parts of the world became powerful centers of landscape ecology especially 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 landscape ecology play a major 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 German/European and American approaches. The book gives a fundamental representation of landscape ecology which proves to be a young but an interesting and very important transdisciplinary science for the solution of environmental problems. Both the theoretical 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 Geocology: 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 Geocology 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 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 **Multiscale Analysis of Landscape Data Sets from Northern Ghana**

Nathaniel Kwamina Howard,2005 Essentials of Landscape Ecology Kimberly A. With,2019-07-01 Human activity during the Anthropocene has transformed landscapes worldwide on a scale that rivals or exceeds even the largest of natural forces Landscape ecology has emerged as a science to investigate the interactions between natural and anthropogenic landscapes and ecological processes across a wide range of scales and systems from the effects of habitat or resource distributions on the individual movements gene flow and population dynamics of plants and animals to the human alteration of landscapes affecting the structure of biological communities and the functioning of entire ecosystems to the sustainable management of natural resources and the ecosystem goods and services upon which society depends This novel and comprehensive text presents the principles theory methods and applications of landscape ecology in an engaging and accessible format that is supplemented by numerous examples and case studies from a variety of systems including freshwater and marine scapes

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 *The Potential of U.S. Grazing Lands to Sequester Carbon and Mitigate the Greenhouse Effect* Ronald F. Follett,John M. 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 productivity all contribute to its importance for sequestering C and mitigating the greenhouse effect and other condition

Recent Dynamics of the Mediterranean Vegetation and Landscape Stefano Mazzoleni, Gaetano di Pasquale, Mark Mulligan, Paolo di Martino, Francisco Rego, 2004-10-22 The Mediterranean region has been shaped by human activity and maintained by traditional practices of land use for centuries This has affected the distribution of plants and the landscape which can be considered as part of the European cultural landscape This book details the rapid changes that have taken place in the vegetation of the Mediterranean in the last half century a period in which major socio economic development greatly affected the cultural and physical landscape **Working with the Past: Towards an Archaeology of Recycling** Dragoş Gheorghiu, Phil Mason, 2017-07-24 This book invites archaeologists to approach the significant process of recycling within the archaeological record at two different levels of artefacts and of landscape

The Top Books of the Year Quantitative Landscape Ecology The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Quantitative Landscape Ecology : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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