

# ECOLOGICAL TIME SERIES

edited by  
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# Ecological Time Series

**D.A. Vasseur, K.S. McCann**



## **Ecological Time Series:**

**Ecological Time Series** Thomas M Powell, John H Steele, 1994-12-31      Ecological Time Series Thomas M. Powell, John H. Steele, 1995-02-14 This book results from a summer school held at Cornell University in 1992 The participants were graduate students and postdoctoral researchers selected from a broad range of interests and backgrounds in ecological studies The summer school was the second in a continuing series whose underlying aim and the aim of this volume is to bring together the different methods and concepts underpinning terrestrial freshwater and marine ecology The first volume in the series focused on patch dynamics in these three ecological sectors Here we have endeavored to complement that volume by extending its comparative approach to the consideration of ecological time series The types of data and the methods of collection are necessarily very different in these contrasting environments yet the underlying concept and the technical problems of analysis have much in common It proved to be of great interest and value to the summer school participants to see the differences and then work through to an appreciation of the generalizable concepts We believe that such an approach must have value as well for a much larger audience and we have structured this volume to provide a comparable reading experience      *Handbook of Environmental and Ecological Statistics* Alan E. Gelfand, Montserrat Fuentes, Jennifer A. Hoeting, Richard Lyttleton Smith, 2019-01-15 This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes The 21st century statistics community has become increasingly interdisciplinary bringing a large collection of modern tools to all areas of application in environmental processes In addition the environmental community has substantially increased its scope of data collection including observational data satellite derived data and computer model output The resultant impact in this latter community has been substantial no longer are simple regression and analysis of variance methods adequate The contribution of this handbook is to assemble a state of the art view of this interface Features An internationally regarded editorial team A distinguished collection of contributors A thoroughly contemporary treatment of a substantial interdisciplinary interface Written to engage both statisticians as well as quantitative environmental researchers 34 chapters covering methodology ecological processes environmental exposure and statistical methods in climate science      **The Impact of Environmental Variability on Ecological Systems** D.A. Vasseur, K.S. McCann, 2007-05-08 Fluctuations in the environmental conditions impacting life are ubiquitous These fluctuations induce changes in the vital processes occurring within individual organisms such as cellular metabolism and the ecological processes occurring among individuals such as competition mutualism and predation ultimately leading to observable fluctuations in the commonly measured characteristics of ecological systems From a very simple perspective these processes are all modulators of environmental variability We might best be able to understand the final form of this modulation the impact of environmental variability on ecological systems by building from an understanding of the responses of these life processes in isolation to an understanding of their responses in harmony The impact of

environmental variability on ecological systems is an issue that has been at the forefront of ecological research for many years. Research is taking place on many fronts including theoretical, mathematical based analyses, natural ecosystem observation and experimentation. This book brings together contributions from these three fronts to provide readers with a comprehensive look at the challenges for ecological systems and ecological research alike. **Ecological Methods** T. R. E. Southwood, Peter A. Henderson, 2009-04-13. This classic text whose First Edition one reviewer referred to as the ecologists bible has been substantially revised and rewritten. Not only have the advances made in the field since the Second Edition been taken into account but the scope has been explicitly extended to all macroscopic animals with particular attention being paid to fish as well as other vertebrates. **Ecological Methods** provides a unique synthesis of the methods and techniques available for the study of populations and ecosystems. Techniques used to obtain both absolute and relative population estimates are described and approaches to the direct measurement of births, deaths, migration and the construction and interpretation of life tables are reviewed. The text is extensively illustrated, clearly describing a wide range of equipment and methods of analysis. Comprehensive and up to date bibliographies to each chapter fully cover the relevant literature and references are given to available computer programs and internet addresses. The book has an active web site providing additional illustrations, details of equipment and programs and references to work published since the revision was completed. Like the earlier editions, this book will be an indispensable source of reference to researchers and students at all levels in the fields of ecology, entomology and zoology. Completely revised and rewritten edition of a classic. Scope extended to all macroscopic animals, notably fish and other vertebrates. Active web site displaying additional material. References to computer programmes and internet addresses throughout the text. Affordable paperback. **Zooplankton Ecology** Maria Alexandra Teodosio, Ana Maria Branco Barbosa, 2020-11-19. This book aims at providing students and researchers an advanced integrative overview on zooplankton ecology covering marine and freshwater organisms from microscopic phagotrophic protists to macro jellyfishes and active fish larvae. The first book section addresses zooplanktonic organisms and processes, the second section is devoted to zooplankton spatial and temporal distribution patterns and trophic dynamics, and the final section is dedicated to emergent methodological approaches e.g. omics. Book chapters include comprehensive synthesis, observational and manipulative studies and sediment based analysis, a vibrant imprint of benthic-pelagic coupling and ecosystem connectivity. Most chapters also address the impacts of anticipated environmental changes e.g. warming, acidification. **Ecology of Populations** Esa Ranta, Per Lundberg, Veijo Kaitala, 2005-02-06. The theme of the book is the distribution and abundance of organisms in space and time. The core of the book lies in how local births and deaths are tied to emigration and immigration processes and how environmental variability at different scales affects population dynamics with stochastic processes and spatial structure and shows how elementary analytical tools can be used to understand population fluctuations, synchrony processes underlying range distributions and community structure and species coexistence. The book also shows how spatial population dynamics

models can be used to understand life history evolution and aspects of evolutionary game theory Although primarily based on analytical and numerical analyses of spatial population processes data from several study systems are also dealt with

**Ecological Data** William K. Michener, James W. Brunt, 2009-04-01 Ecologists are increasingly tackling difficult issues like global change loss of biodiversity and sustainability of ecosystem services These and related topics are enormously challenging requiring unprecedented multidisciplinary collaboration and rapid synthesis of large amounts of diverse data into information and ultimately knowledge New sensors computers data collection and storage devices and analytical and statistical methods provide a powerful tool kit to support analyses graphics and visualizations that were unthinkable even a few years ago New and increased emphasis on accessibility management processing and sharing of high quality well maintained and understandable data represents a significant change in how scientists view and treat data These issues are complex and despite their importance are typically not addressed in database ecological and statistical textbooks This book addresses these issues providing a much needed resource for those involved in designing and implementing ecological research as well as students who are entering the environmental sciences Chapters focus on the design of ecological studies data management principles scientific databases data quality assurance data documentation archiving ecological data and information and processing data into information and knowledge The book stops short of a detailed treatment of data analysis but does provide pointers to the relevant literature in graphics statistics and knowledge discovery The central thesis of the book is that high quality data management systems are critical for addressing future environmental challenges This requires a new approach to how we conduct ecological research that views data as a resource and promotes stewardship recycling and sharing of data Ecological Data will be particularly useful to those ecologists and information specialists that actively design manage and analyze environmental databases However it will also benefit a wider audience of scientists and students in the ecological and environmental sciences

**Population Ecology in Practice** Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own

datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments

*Theoretical Ecology* Kevin S. McCann, Gabriel Gellner, 2020 *Theoretical Ecology* concepts and applications continues the authoritative and established sequence of theoretical ecology books initiated by Robert M May which helped pave the way for ecology to become a more robust theoretical science encouraging the modern biologist to better understand the mathematics behind their theories This latest instalment builds on the legacy of its predecessors with a completely new set of contributions Rather than placing emphasis on the historical ideas in theoretical ecology the Editors have encouraged each contribution to synthesize historical theoretical ideas within modern frameworks that have emerged in the last 10 20 years e g bridging population interactions to whole food webs describe novel theory that has emerged in the last 20 years from historical empirical areas e g macro ecology and finally to cover the rapidly expanding area of theoretical ecological applications e g disease theory and global change theory The result is a forward looking synthesis that will help guide the field through a further decade of discovery and development It is written for upper level undergraduate students graduate students and researchers seeking synthesis and the state of the art in growing areas of interest in theoretical ecology genetics evolutionary ecology and mathematical biology

*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

*Chaos in Ecology* J. M. Cushing, 2003 It is impossible to predict the exact behavior of all biological systems and how these same systems are exemplified by patterns of complexity and regularity Decades of research in ecology have documented how these sorts of patterns are the consequences of deceptively simple rules that determine the nature of the patterns created Chaos in Ecology will explain how simple beginnings result in complicated results Chaos in Ecology is the inaugural volume of Theoretical Ecology Series The authors of this volume have employed data from a proven model system in population dynamics As a result this book will be of interest to anyone interested in the ecology of populations It is impossible to predict the exact behavior of almost all biological systems and yet these same systems are exemplified by patterns of complexity and regularity Decades of research

in ecology have documented that these sorts of patterns are the consequence of deceptively simple rules that determine the nature of the patterns created. In essence, simple beginnings result in complicated results. This realization is captured in the mathematical notion of chaos and is rendered intuitive by the oft-repeated metaphor: A butterfly beats its wings in China and causing a thunderstorm in the Midwest. Thus, seemingly trivial initial conditions, e.g., a butterfly in China, cascade through a series of intermediate events to create a significant large-scale event, e.g., a thunderstorm. Chaos in Ecology is the inaugural volume of Theoretical Ecology Series. The authors of this volume have employed data from a proven model system in population dynamics. As a result, this book will be of interest to anyone interested in the ecology of populations.

Untangling Ecological Complexity Brian A. Maurer, 1999-02 Acknowledgments Ch 1 Of Entangled Banks and Humble Bees Ch 2 From Micro to Macro and Back Again Ch 3 Communities on Small Spatial and Temporal Scales Ch 4 Communities as Linear Systems Ch 5 Communities as Nonlinear Systems Ch 6 Macroecology: Expanding the Spatial Scale of Community Ecology Ch 7 Geographic Range Structure Niche Written in Space Ch 8 Geographic Assembly of Local Communities Ch 9 The Evolution of Species Diversity at the Macroscale Ch 10 The Macroscopic Perspective and the Future of Ecology Literature Cited Index Copyright Libri GmbH All rights reserved

**Towards an Information Theory of Complex Networks** Matthias Dehmer, Frank Emmert-Streib, Alexander Mehler, 2011-08-26 For over a decade, complex networks have steadily grown as an important tool across a broad array of academic disciplines with applications ranging from physics to social media. A tightly organized collection of carefully selected papers on the subject, *Towards an Information Theory of Complex Networks: Statistical Methods and Applications*, presents theoretical and practical results about information theoretic and statistical models of complex networks in the natural sciences and humanities. The book's major goal is to advocate and promote a combination of graph theoretic, information theoretic, and statistical methods as a way to better understand and characterize real-world networks. This volume is the first to present a self-contained, comprehensive overview of information theoretic models of complex networks with an emphasis on applications. As such, it marks a first step toward establishing advanced statistical information theory as a unified theoretical basis of complex networks for all scientific disciplines and can serve as a valuable resource for a diverse audience of advanced students and professional scientists. While it is primarily intended as a reference for research, the book could also be a useful supplemental graduate text in courses related to information science, graph theory, machine learning, and computational biology, among others.

**Models for Ecological Data** James S. Clark, 2020-10-06 The environmental sciences are undergoing a revolution in the use of models and data. Facing ecological data sets of unprecedented size and complexity, environmental scientists are struggling to understand and exploit powerful new statistical tools for making sense of ecological processes. In *Models for Ecological Data*, James Clark introduces ecologists to these modern methods in modeling and computation. Assuming only basic courses in calculus and statistics, the text introduces readers to basic maximum likelihood and then works up to more advanced topics in

Bayesian modeling and computation Clark covers both classical statistical approaches and powerful new computational tools and describes how complexity can motivate a shift from classical to Bayesian methods Through an available lab manual the book introduces readers to the practical work of data modeling and computation in the language R Based on a successful course at Duke University and National Science Foundation funded institutes on hierarchical modeling Models for Ecological Data will enable ecologists and other environmental scientists to develop useful models that make sense of ecological data Consistent treatment from classical to modern Bayes Underlying distribution theory to algorithm development Many examples and applications Does not assume statistical background Extensive supporting appendixes Lab manual in R is available separately

*Handbook of Crime Correlates* Lee Ellis, David P. Farrington, Anthony W. Hoskin, 2019-06-04 The Handbook of Crime Correlates Second Edition summarizes more than a century of worldwide research on traits and social conditions associated with criminality and antisocial behavior Findings are provided in tabular form enabling readers to determine at a glance the nature of each association Within each table results are listed by country type of crime or other forms of antisocial behavior and whether each variable is positively negatively or insignificantly associated with offending behavior Criminal behavior is broken down according to major categories including violent crime property crime drug offenses sex offenses delinquency and recidivism This book provides a resource for practitioners and academics who are interested in criminal and antisocial behavior It is relevant to the fields of criminology criminal justice sociology and psychology No other publication provides as much information about how a wide range of variables e g gender religion personality traits weapons access alcohol and drug use social status geography and seasonality correlate with offending behavior Includes 600 tables regarding variables related to criminal behavior Consolidates 100 years of academic research on criminal behavior Findings are identified by country and world regions for easy comparison Lists criminal related behaviors according to major categories Identifies universal crime correlates

Complex Ecology Charles G. Curtin, Timothy F. H. Allen, 2018-05-31 From climate change to species extinction humanity is confronted with an increasing array of societal and environmental challenges that defy simple quantifiable solutions Complexity based ecology provides a new paradigm for ecologists and conservationists keen to embrace the uncertainty that is pressed upon us This book presents key research papers chosen by some sixty scholars from various continents across a diverse span of sub disciplines The papers are set alongside first person commentary from many of the seminal voices involved offering unprecedented access to experts viewpoints The works assembled also shed light on the process of science in general showing how the shifting of wider perspectives allows for new ideas to take hold Ideal for undergraduate and advanced students of ecology and conservation their educators and those working across allied fields this is the first book of its kind to focus on complexity based approaches and provides a benchmark for future collected volumes

*General Technical Report INT.*, 1997 Vegetation Monitoring Caryl L. Elzinga, 1997 *Timber Sale Planning and Analysis System* Mary L. Meacham, Fred Stewart, J. Greg



Jones, 1997

## Unveiling the Magic of Words: A Overview of "**Ecological Time Series**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Ecological Time Series**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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