



Parameter Estimation in Ecology: The Link Between Data and Models

Richter, O.

Note: This is not the actual book cover

Parameter Estimation In Ecology

Benjamin M. Bolker



Parameter Estimation In Ecology:

Parameter Estimation in Ecology Otto Richter, Dagmar Sönderath, 1990 *Population Parameters* Hamish McCallum, 2008-04-15 Ecologists and environmental managers rely on mathematical models both to understand ecological systems and to predict future system behavior In turn models rely on appropriate estimates of their parameters This book brings together a diverse and scattered literature to provide clear guidance on how to estimate parameters for models of animal populations It is not a recipe book of statistical procedures Instead it concentrates on how to select the best approach to parameter estimation for a particular problem and how to ensure that the quality estimated is the appropriate one for the specific purpose of the modelling exercise Commencing with a toolbox of useful generic approaches to parameter estimation the book deals with methods for estimating parameters for single populations These parameters include population size birth and death rates and the population growth rate For such parameters rigorous statistical theory has been developed and software is readily available The problem is to select the optimal sampling design and method of analysis The second part of the book deals with parameters that describe spatial dynamics and ecological interactions such as competition predation and parasitism Here the principle problems are designing appropriate experiments and ensuring that the quantities measured by the experiments are relevant to the ecological models in which they will be used This book will be essential reading for ecological researchers postgraduate students and environmental managers who need to address an ecological problem through a population model It is accessible to anyone with an understanding of basic statistical methods and population ecology Unique in concentrating on parameter estimation within modelling Fills a glaring gap in the literature Not too technical so suitable for the statistically inept Methods explained in algebra but also in worked examples using commonly available computer packages SAS GLIM and some more specialised packages where relevant Some spreadsheet based examples also included [Parameter Estimation in Ecology](#) Otto Richter, Dagmar Sönderath, 1990-02-28 This book is unique in that it combines ecological model building and the application of advanced statistical methods for parameter estimation Written for model builders and statisticians in the field of ecology it provides the statistical and numerical tools needed to estimate parameters from experimental data These tools range from standard methods to highly advanced ones for parameter identification using ordinary differential equations Detailed examples based on real data illustrate their use It provides the necessary link between data and models between simulation and statistics [Capture-Recapture: Parameter Estimation for Open Animal Populations](#) George A. F. Seber, Matthew R. Schofield, 2019-08-13 This comprehensive book rich with applications offers a quantitative framework for the analysis of the various capture recapture models for open animal populations while also addressing associated computational methods The state of our wildlife populations provides a litmus test for the state of our environment especially in light of global warming and the increasing pollution of our land seas and air In addition to monitoring our food resources such as fisheries we need to protect endangered species from the effects of

human activities e.g. rhinos, whales or encroachments on the habitat of orangutans. Pests must be controlled whether insects or viruses and we need to cope with growing feral populations such as opossums, rabbits and pigs. Accordingly, we need to obtain information about a given population's dynamics concerning e.g. mortality, birth, growth, breeding, sex and migration and determine whether the respective population is increasing, static or declining. There are many methods for obtaining population information but the most useful and most work-intensive is generically known as capture-recapture, where we mark or tag a representative sample of individuals from the population and follow that sample over time using recaptures, resightings or dead recoveries. Marks can be natural such as stripes, fin profiles and even DNA or artificial such as spots on insects. Attached tags can, for example, be simple bands or streamers or more sophisticated variants such as radio and sonic transmitters. To estimate population parameters, sophisticated and complex mathematical models have been devised on the basis of recapture information and computer packages. This book addresses the analysis of such models. It is primarily intended for ecologists and wildlife managers who wish to apply the methods to the types of problems discussed above, though it will also benefit researchers and graduate students in ecology. Familiarity with basic statistical concepts is essential.

Fundamentals of Ecological Modelling S.E. Jorgensen, 2011-01-10. *Fundamentals of Ecological Modelling: Applications in Environmental Management and Research*. Fourth Edition provides a comprehensive discussion of the fundamental principles of ecological modeling. The first two editions of this book, published in 1986 and 1994, focused on the roots of the discipline: the four main model types that dominated the field 30-40 years ago: 1. dynamic biogeochemical models, 2. population dynamic models, 3. ecotoxicological models and 4. steady state biogeochemical and energy models. The third edition focused on the mathematical formulations of ecological processes that are included in ecological models. This fourth edition uses the four model types previously listed as the foundation and expands the latest model developments in spatial models, structural dynamic models and individual-based models. As these seven types of models are very different and require different considerations in the model development phase, a separate chapter is devoted to the development of each of the model types. Throughout the text, the examples given from the literature emphasize the application of models for environmental management and research. Presents the most commonly used model types with a step-by-step outline of the modeling procedure used for each. Shows readers through an illustrated example of how to use each model in research and management settings. New edition is revised to include only essential theory with a focus on applications. Includes case studies, illustrations and exercises. Case study of an ecological problem with full illustration on how to solve the problem.

Fundamentals of Ecological Modelling Sven Erik Jørgensen, G. Bendorichio, 2001. Cover, Contents, Preface, Acknowledgements, Chapter 1 Introduction, 1.1 Physical and Mathematical Models, 1.2 Models as a Management Tool, 1.3 Models as a Scientific Tool, 1.4 Models and Holism, 1.5 The Ecosystem as an Object for Research, 1.6 Outline of the Book, 1.7 The Development of Ecological and Environmental Models, 1.8 State of the Art in the Application of Models, Chapter 2

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 Ecological Modelling W.K. Lauenroth,G.V. Skogerboe,M. Flug,2013-10-22 The International Society for Ecological Modelling
 ISEM sponsors conferences workshops and training courses with the aim of advancing the development of ecological and
 environmental modelling The 3rd International Conference on the state of the art in ecological modelling was sponsored by
 the ISEM in cooperation with the National Park Service Water Resources Laboratory and hosted by the Natural Resource
 Ecology Laboratory at Colorado State University Its theme was the application of ecological modelling to environmental
 management and this book contains the full texts of the three invited papers presented in the five general sessions plus the
 final summaries and syntheses of the topics covered during those sessions **Theoretical Systems Ecology** Efraim
 Halfon,2012-12-02 Theoretical Systems Ecology Advances and Case Studies aims to relate systems ecology theory to
 theoretical systems ecologists and other theoreticians in systems science The main language of systems theory is
 mathematics This book somewhat simplifies concepts advances and developments of the field to non mathematicians who
 lack background in some aspects of systems ecology It presents examples after every chapter that shows the application of
 theory to the development and analysis of models This book generally focuses on three problems The first problem is the
 selection of components found in the system model The definition of the relationships and interactions between the system
 variables is another concern of this book It also looks into the model analysis These problems are thoroughly discussed in
 each section of the book The theory of modeling formalisms classes and properties of models are covered in the first two
 sections of this book A whole section in this book is dedicated to Systems Identification and deals mostly with the problem of
 extracting information from data Other sections cover model analysis with focus on trends in some aspects such as stability
 and control theory *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 **Encyclopedia of Ecology** Brian D. Fath, 2014-11-03

The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication **Handbook of Ecosystem Theories and Management** Felix Muller, 2000-02-10 As part of the Environmental and Ecological Modeling Handbooks series the Handbook of Ecosystem Theories and Management provides a comprehensive overview of ecosystem theory and the tools ecological engineering ecological modeling ecotoxicology and ecological economics to manage these systems The book is laid out to provide a summary or survey of each topic using many tables and figures Concepts definitions important findings basic hypotheses important correlations between theories and observation with illustrative graphs are included The comprehensive treatment of ecosystem theory and application of theoretical tools and the integration of classical theory and real world examples sets this book apart It covers newly emerging topical areas as well as nontraditional topical areas i e chaos that will interest professionals trained in previous decades and enlighten those now entering into formal training The general approach taken by the authors makes this an essential reference and handbook for professionals and students Ecosystems and Sustainable Development IX A. M. Marinov, C. A. Brebbia, 2013 Containing papers presented at the Ninth International Conference in the well established conference series on Ecosystems and Sustainable Development this book originates from the work of the late Nobel laureate Ilya Prigogine and challenges us to develop the new science of ecodynamics integrating thermodynamics ecology and economics It covers not only novel research related to ecological problems from all over the world but also new emergent ideas arising from the cross fertilisation of different disciplines including evolutionary thermodynamics and biodiversity structures in ecosystems modelling and landscapes mathematical models and eco informatics to mention but a few The

papers in the book cover such topics as Ecosystems modelling Natural resources management Environmental indicators and measurements Sustainable development and planning Data mining applications Energy and the environment Soil contamination and recovery Water resources issues Waste management Ecotoxicity Ecosystems maintenance Ecosystems and climate change Environmental economics and benefit analysis Recovery of damaged areas Socio economic areas Environmental management Policies and regulations Protection and mitigation Knowledge dissemination and internet applications Ecological services Innovation in ecosystems management Landscape development and management

Connectivity Conservation Kevin R. Crooks, M. Sanjayan, 2006-11-02 One of the biggest threats to the survival of many plant and animal species is the destruction or fragmentation of their natural habitats The conservation of landscape connections where animals plants and ecological processes can move freely from one habitat to another is therefore an essential part of any new conservation or environmental protection plan In practice however maintaining creating and protecting connectivity in our increasingly dissected world is a daunting challenge This fascinating volume provides a synthesis on the current status and literature of connectivity conservation research and implementation It shows the challenges involved in applying existing knowledge to real world examples and highlights areas in need of further study Containing contributions from leading scientists and practitioners this topical and thought provoking volume will be essential reading for graduate students researchers and practitioners working in conservation biology and natural resource management

Ecological Modelling Sven Erik Jørgensen, 2009-09-10 Addressing the basic concepts of ecological modelling Jørgensen provides the user with a tool which can assist in the understanding of what various model types network calculations can do as well as outlining when to use which type as a tool to solve a specific problem

Systems Analysis and Simulation in Ecology Bernard C. Patten, 2013-09-11 Systems Analysis and Simulation in Ecology Volume I is a book of ecology in transition from a soft science synecology to a hard science systems ecology It is an enthusiastic and optimistic statement about the fundamental adaptability of the scientific mechanism to newly appreciated truths of existence It documents in ecological science a move away from the explanatory or cognitive criterion toward the predictive criterion a hard one with the potential of leading ultimately to optimal design and control of ecosystems The book is organized into three parts Part I is an overview of some of the methods and rationales for ecological systems modeling for the purposes of simulation and systems analysis It provides an elementary introduction to the use of analog and digital computers for simulation and a rationale for ecological model building Part II illustrates three different approaches to population modeling These include a mathematical analysis of microbial *Chlorella* *Selenastrum* dynamics in both continuous and batch cultures and a bioenergetics study of the terrestrial isopod *Armadillidium* utilizing concepts from control theory and the transfer function technique of classical dynamic analysis Part III brings together a group of papers describing various aspects and philosophies of ecological simulation These include common problems in ecosystem simulation and the question whether or

not some of the newer methods of systems ecology might not be used in connection with some of the older data and observations of traditional synecology Integration of Ecosystem Theories: A Pattern Sven Erik Jørgensen, 2012-12-06 The book presents an integration of existing ecosystem theories in such a comprehensive way as to enable a full ecological and theoretical pattern to be presented It shows that ecosystems and their reactions may be understood provided that all basic systems ecology is applied to different aspects of the properties of ecosystems Since the publication of the previous two editions of this book ongoing research and discussions on an international scale have greatly clarified and enhanced this pattern This progress is presented as Chapter 16 in this new third edition It is shown that the integrated ecosystem theory presented can be applied to explain various ecological observations and rules Audience Researchers and decision makers whose work involves the study of ecosystems and ecology This book is also recommended for use in graduate courses

Long-Term Ecological Research Felix Müller, Cornelia Baessler, Hendrik Schubert, Stefan Klotz, 2010-06-21 Ecosystems change on a multitude of spatial and temporal scales While analyses of ecosystem dynamics in short timespans have received much attention the impacts of changes in the long term have to a great extent been neglected provoking a lack of information and methodological know how in this area This book fills this gap by focusing on studies dealing with the investigation of complex long term ecological processes with regard to global change the development of early warning systems and the acquisition of a scientific basis for strategic conservation management and the sustainable use of ecosystems Within this book theoretical ecological questions of long term processes as well as an international dimension of long term monitoring observations and research are brought together The outcome is an overview on different aspects of long term ecological research Aquatic as well as terrestrial ecosystems are represented Design and Analysis of Long-term Ecological Monitoring Studies Robert A. Gitzen, Joshua J. Millspaugh, Andrew B. Cooper, Daniel S. Licht, 2012-06-07 To provide useful and meaningful information long term ecological programs need to implement solid and efficient statistical approaches for collecting and analyzing data This volume provides rigorous guidance on quantitative issues in monitoring with contributions from world experts in the field These experts have extensive experience in teaching fundamental and advanced ideas and methods to natural resource managers scientists and students The chapters present a range of tools and approaches including detailed coverage of variance component estimation and quantitative selection among alternative designs spatially balanced sampling sampling strategies integrating design and model based approaches and advanced analytical approaches such as hierarchical and structural equation modelling Making these tools more accessible to ecologists and other monitoring practitioners across numerous disciplines this is a valuable resource for any professional whose work deals with ecological monitoring Supplementary example software code is available online at www.cambridge.org/9780521191548 **Ecological Models and Data in R** Benjamin M. Bolker, 2008-07-21 Introduction and background Exploratory data analysis and graphics Deterministic functions for ecological modeling Probability and stochastic distributions for ecological modeling Stochastic

simulation and power analysis Likelihood and all that Optimization and all that Likelihood examples Standar statistics revisited Modeling variance Dynamic models ECOTOX L.A. Jørgensen, S.N. Nielsen, S.E. Jørgensen, 2012-12-02 This CD ROM provides the facts abstracts and figures needed to build environmental models together with information on the environmental effects of chemical substances The data has been rigorously selected from scientific journals covering 25 years Environmental models included cover a wide range of topics including eutrophication dispersion of chemical compounds growth and competition of different organisms as well as models which describe global environmental cycles Ecotoxicological information on substances includes the water concentrations at which aquatic organisms are affected by the chemical compounds These concentrations are used in the regulation of releases and for calculating safe concentration levels in the environment The growth of environmental toxicological data and the growth of different types of environmental models has been a major new development in this field ECOTOX Ecological Modelling and Ecotoxicology presents ecotoxicological information about more than 2000 chemical substances including such data as growth parameters lethal concentrations LC50 emissions degradation of chemical substances background concentrations concentration factors biological effects octanol water partition coefficients excretion and uptake rates emissions and composition of living organisms Accompanying this information are the constants and equations to be used in environmental models and abstracts from scientific journals to give an explanation concerning the scope of the data All this information is directed towards environmental modelling administration of environmental regulations scientific models environmental policy making and environmental impact assessment NEW FROM APRIL 2001 <http://www.enviromod subnet dk> Ecological and Environmental Modeling An Interactive Internet Course

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the city is traditionally one of the cultural centres of europe hosting many cultural events some of the significant cultural institutions include the national theatre národní divadlo and the estates theatre stavovské or tylovo or nosticovo divadlo where the premières of mozart s don giovanni and la clemenza di titò were held other major cultural institutions are the rudolfinum which is home to the czech philharmonic orchestra and the municipal house which is home to the prague symphony orchestra

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