

Marc Kéry  
J. Andrew Royle



# APPLIED HIERARCHICAL MODELING IN ECOLOGY

Analysis of distribution, abundance and  
species richness in R and BUGS

Volume 2  
Dynamic and Advanced Models



# Applied Hierarchical Modeling Ecology Distribution

**Leonard A. Brennan, Andrew N.  
Tri, Bruce G. Marcot**



## **Applied Hierarchical Modeling Ecology Distribution:**

*Applied Hierarchical Modeling in Ecology: Analysis of Distribution, Abundance and Species Richness in R and BUGS* Marc Kéry, J. Andrew Royle, 2020-10-10 *Applied Hierarchical Modeling in Ecology Analysis of Distribution Abundance and Species Richness in R and BUGS Volume Two Dynamic and Advanced Models* provides a synthesis of the state of the art in hierarchical models for plant and animal distribution also focusing on the complex and more advanced models currently available The book explains all procedures in the context of hierarchical models that represent a unified approach to ecological research thus taking the reader from design through data collection and into analyses using a very powerful way of synthesizing data Makes ecological modeling accessible to people who are struggling to use complex or advanced modeling programs Synthesizes current ecological models and explains how they are inter connected Contains numerous examples throughout the book walking the reading through scenarios with both real and simulated data Provides an ideal resource for ecologists working in R software and in BUGS software for more flexible Bayesian analyses

*Applied Hierarchical Modeling in Ecology: Analysis of distribution, abundance and species richness in R and BUGS* Marc Kéry, J. Andrew Royle, 2015-11-14 *Applied Hierarchical Modeling in Ecology Distribution Abundance Species Richness* offers a new synthesis of the state of the art of hierarchical models for plant and animal distribution abundance and community characteristics such as species richness using data collected in metapopulation designs These types of data are extremely widespread in ecology and its applications in such areas as biodiversity monitoring and fisheries and wildlife management This first volume explains static models procedures in the context of hierarchical models that collectively represent a unified approach to ecological research taking the reader from design through data collection and into analyses using a very powerful class of models *Applied Hierarchical Modeling in Ecology Volume 1* serves as an indispensable manual for practicing field biologists and as a graduate level text for students in ecology conservation biology fisheries wildlife management and related fields Provides a synthesis of important classes of models about distribution abundance and species richness while accommodating imperfect detection Presents models and methods for identifying unmarked individuals and species Written in a step by step approach accessible to non statisticians and provides fully worked examples that serve as a template for readers analyses Includes companion website containing data sets code solutions to exercises and further information

*Applied Hierarchical Modeling in Ecology* Manuel Marton Marc Kéry, J. Andrew Royle, 2016

**Bayesian Analysis of Spatially Structured Population Dynamics** Qing Zhao, 2024-10-30 The book introduces a series of state of art Bayesian models that can be used to understand and predict spatially structured population dynamics in our changing world Several chapters are devoted to introducing models that utilize detection non detection data count data combined count and capture recapture data and spatial capture recapture data respectively The book provides R code of Metropolis Hastings algorithms that allow efficient computing of these complex models The book is aimed at graduate students and researchers

who are interested in using and further developing these models

**Occupancy Estimation and Modeling** Darryl I. MacKenzie, James D. Nichols, J. Andrew Royle, Kenneth H. Pollock, Larissa Bailey, James E. Hines, 2017-11-17 Occupancy Estimation and Modeling Inferring Patterns and Dynamics of Species Occurrence Second Edition provides a synthesis of model based approaches for analyzing presence absence data allowing for imperfect detection Beginning from the relatively simple case of estimating the proportion of area or sampling units occupied at the time of surveying the authors describe a wide variety of extensions that have been developed since the early 2000s This provides an improved insight about species and community ecology including detection heterogeneity correlated detections spatial autocorrelation multiple states or classes of occupancy changes in occupancy over time species co occurrence community level modeling and more Occupancy Estimation and Modeling Inferring Patterns and Dynamics of Species Occurrence Second Edition has been greatly expanded and detail is provided regarding the estimation methods and examples of their application are given Important study design recommendations are also covered to give a well rounded view of modeling Provides authoritative insights into the latest in occupancy modeling Examines the latest methods in analyzing detection no detection data surveys Addresses critical issues of imperfect detectability and its effects on species occurrence estimation Discusses important study design considerations such as defining sample units sample size determination and optimal effort allocation

**Applied Statistical Modelling for Ecologists** Marc Kéry, Kenneth F. Kellner, 2024-07-18 2025 PROSE Award Finalist in Environmental Science Applied Statistical Modelling for Ecologists provides a gentle introduction to the essential models of applied statistics linear models generalized linear models mixed and hierarchical models All models are fit with both a likelihood and a Bayesian approach using several powerful software packages widely used in research publications JAGS NIMBLE Stan and TMB In addition the foundational method of maximum likelihood is explained in a manner that ecologists can really understand This book is the successor of the widely used Introduction to WinBUGS for Ecologists Kéry Academic Press 2010 Like its parent it is extremely effective for both classroom use and self study allowing students and researchers alike to quickly learn understand and carry out a very wide range of statistical modelling tasks The examples in Applied Statistical Modelling for Ecologists come from ecology and the environmental sciences but the underlying statistical models are very widely used by scientists across many disciplines This book will be useful for anybody who needs to learn and quickly become proficient in statistical modelling with either a likelihood or a Bayesian focus and in the model fitting engines covered including the three latest packages NIMBLE Stan and TMB Contains a concise and gentle introduction to probability and applied statistics as needed in ecology and the environmental sciences Covers the foundations of modern applied statistical modelling Gives a comprehensive applied introduction to what currently are the most widely used and most exciting cutting edge model fitting software packages JAGS NIMBLE Stan and TMB Provides a highly accessible applied introduction to the two dominant methods of fitting parametric statistical models maximum likelihood and Bayesian posterior inference Details the principles of model building model

checking and model selection Adopts a Rosetta Stone approach wherein understanding of one software and of its associated language will be greatly enhanced by seeing the analogous code in other engines Provides all code available for download for students at <https://www.elsevier.com/books-and-journals/book-companion/9780443137150> **The Codex of the**

**Endangered Species Act, Volume II** Lowell E. Baier, John F. Organ, 2023-11-13 The Endangered Species Act of 1973 ESA is one of the most cherished and reviled laws ever passed It mandates protection and preservation of all the nation's species and biodiversity whatever the cost It has been a lightning rod for controversy and conflicts between industry/business and environmentalists In this volume leading Endangered Species Act experts interpret and propose legislative and administrative changes to prepare the ESA for future challenges They explore regulations on avoiding harm to and producing benefits for species cooperation between state and federal agencies scientific analyses and the necessary politics to enact their ideas This is a call to action to chart an enlightened future for the Endangered Species Act that embraces the nation's moral commitment of 50 years ago to address species extinction constructively mindful of biodiversity and as a fixture among the nation's values and needs The interconnected web of life includes all living species that depend on each other for survival us among them The stakes our very future are too high to ignore *Integrated Population Models* Michael Schaub, Marc Kéry, 2021-11-12 Integrated Population Models Theory and Ecological Applications with R and JAGS is the first book on integrated population models which constitute a powerful framework for combining multiple data sets from the population and the individual levels to estimate demographic parameters and population size and trends These models identify drivers of population dynamics and forecast the composition and trajectory of a population Written by two population ecologists with expertise on integrated population modeling this book provides a comprehensive synthesis of the relevant theory of integrated population models with an extensive overview of practical applications using Bayesian methods by means of case studies The book contains fully documented complete code for fitting all models in the free software R and JAGS It also includes all required code for pre and post model fitting analysis Integrated Population Models is an invaluable reference for researchers and practitioners involved in population analysis and for graduate level students in ecology conservation biology wildlife management and related fields The text is ideal for self study and advanced graduate level courses Offers practical and accessible ecological applications of IPMs integrated population models Provides full documentation of analyzed code in the Bayesian framework Written and structured for an easy approach to the subject especially for non statisticians

**Wildlife Monitoring** Luciano Martins Verdade, Rafael de Andrade Moral, 2026-01-01 This book aims to propose a protocol for wildlife monitoring in special in human altered environments like agricultural and silvicultural landscapes Its target audience includes wildlife biologists both in governmental sectors and NGOs as well as scientists university faculty and graduate undergraduate students at the wildlife management and correlated fields such as biological conservation sustainable use human wildlife coexistence and wildlife surveys monitoring The main topics presented and discussed in detail

are connected to conceptual technological and societal innovations including a proposed protocol of long term crossing spatial scale to standardize wildlife monitoring at agricultural silvicultural landscapes Their relevance is based on the importance of human altered environments on biodiversity conservation as conservation units in real world e g national parks and biological reserves are insufficient to provide conservation for the integral biota Notwithstanding despite their plethora of environmental impacts agricultural and silvicultural landscapes still contain a relevant part of the wildlife Their qualified and quantified monitoring is necessary to the establishment of their conservation value as well as their economic value in both local and international markets This is main problem this book is destined to solve

**Estimating Presence and Abundance of Closed Populations** George A. F. Seber,Matthew R. Schofield,2023-12-01 This comprehensive book covers a wide variety of methods for estimating the sizes and related parameters of closed populations With the effect of climate change and human territory invasion we have seen huge species losses and a major biodiversity decline Populations include plants trees various land and sea animals and some human populations With such a diversity of populations an extensive variety of different methods are described with the collection of different types of data For example we have count data from plot sampling which can also allow for incomplete detection There is a large chapter on occupancy methods where a major interest is determining whether a particular species is present or not Citizen and opportunistic survey data can also be incorporated A related topic is species methods where species richness and species interactions are of interest A variety of distance methods are discussed One can use distances from points and lines as well as nearest neighbor distances The applications are extensive and include marine acoustic and aerial surveys using multiple observers or detection devices Line intercept measurements have a role to play such as for example estimating parameters relating to plant coverage An increasingly important class of removal methods considers successive removals from a population with physical removal or removal by capture recapture of marked individuals With the change in ratio method removals are taken from two or more classes e g males and females Effort data used for removals can also be used A very important method for estimating abundance is the use of capture recapture data collected discretely or continuously and can be analysed using both frequency and Bayesian methods Computational aspects of fitting Bayesian models are described A related topic of growing interest is the use of spatial and camera methods With the plethora of models there has been a corresponding development of various computational methods and packages which are often mentioned throughout Covariate data is being used more frequently which can reduce the number of unknown parameters by using logistic and loglinear models An important computational aspect is that of model selection methods The book provides a useful list of over 1400 references

*Quantitative Analyses in Wildlife Science* Leonard A. Brennan,Andrew N. Tri,Bruce G. Marcot,2019-09-10 An authoritative guide to quantitative methods that will help wildlife scientists improve analysis and decision making Over the past fifty years wildlife science has become increasingly quantitative But to wildlife scientists many of whom have not been

formally trained as biometricians computer modelers or mathematicians the wide array of available techniques for analyzing wildlife populations and habitats can be overwhelming This practical book aims to help students and professionals alike understand how to use quantitative methods to inform their work in the field Covering the most widely used contemporary approaches to the analysis of wildlife populations and habitats *Quantitative Analyses in Wildlife Science* is divided into five broad areas general statistical methods demographic estimation dynamic process modeling analysis of spatially based data on animals and resources numerical methods Addressing a variety of topics from population estimation and growth trend predictions to the study of migration patterns this book presents fresh data on such pressing issues as sustainable take control of invasives and species reintroduction Authored by leading researchers in wildlife science each chapter considers the structure of data in relation to a particular analytical technique as well as the structure of variation in those data Providing conceptual and quantitative overviews of modern analytical methods the techniques covered in this book also apply to conservation research and wildlife policy Whether a quick refresher or a comprehensive introduction is called for *Quantitative Analyses in Wildlife Science* is an indispensable addition to every wildlife professional's bookshelf Contributors William M Block Leonard A Brennan Stephen T Buckland Christopher C Chizinski Evan C Cooch Raymond J Davis Stephen J DeMaso Randy W DeYoung Jane Elith Joseph J Fontane Julie A Heinrichs Mevin B Hooten Julianna M A Jenkins Zachary S Laden Damon B Lesmeister Daniel Linden Jeffrey J Lusk Bruce G Marcot David L Miller Michael L Morrison Eric Rexstad Jamie S Sanderlin Joseph P Sands Erica F Stuber Chris Sutherland Andrew N Tri David B Wester Gary C White Christopher K Williams Damon L Williford *Hierarchical Modeling and Inference in Ecology* J. Andrew Royle, Robert M.

Dorazio, 2008-10-15 A guide to data collection modeling and inference strategies for biological survey data using Bayesian and classical statistical methods This book describes a general and flexible framework for modeling and inference in ecological systems based on hierarchical models with a strict focus on the use of probability models and parametric inference Hierarchical models represent a paradigm shift in the application of statistics to ecological inference problems because they combine explicit models of ecological system structure or dynamics with models of how ecological systems are observed The principles of hierarchical modeling are developed and applied to problems in population metapopulation community and metacommunity systems The book provides the first synthetic treatment of many recent methodological advances in ecological modeling and unifies disparate methods and procedures The authors apply principles of hierarchical modeling to ecological problems including occurrence or occupancy models for estimating species distribution abundance models based on many sampling protocols including distance sampling capture recapture models with individual effects spatial capture recapture models based on camera trapping and related methods population and metapopulation dynamic models models of biodiversity community structure and dynamics Wide variety of examples involving many taxa birds amphibians mammals insects plants Development of classical likelihood based procedures for inference as well as Bayesian methods of analysis

Detailed explanations describing the implementation of hierarchical models using freely available software such as R and WinBUGS Computing support in technical appendices in an online companion web site **Applied Ecology Abstracts**,1979 **Models for Planning Wildlife Conservation in Large Landscapes** Joshua Millspaugh, Frank R. Thompson, 2009 Intended to provide a recipe for successful development of wildlife habitat models and their implementation in conservation planning the book could be used in studying wildlife habitat models conservation planning and management techniques Additionally it may be a supplemental text in courses dealing with quantitative assessment of wildlife populations Additionally the length of the book would be ideal for graduate student seminar course Using wildlife habitat models in conservation planning is of considerable interest to wildlife biologists With ever tightening budgets for wildlife research and planning activities there is a growing need to use computer methods Use of simulation models represents the single best alternative However it is imperative that these techniques be described in a single source Moreover biologists should be made aware of alternative modeling techniques **Managing and Designing Landscapes for Conservation** David B. Lindenmayer, Richard J. Hobbs, 2007-11-28 David Lindenmayer is a Research Professor in the Center for Resource Environmental Studies at The Australian National University in Canberra He runs six large scale landscape studies in south eastern Australia and has written 18 books and 260 scientific articles on conservation biology landscape ecology wildlife biology forest ecology and management and woodland conservation and management Richard Hobbs is an Australian Professorial Fellow in the School of Environmental Science at Murdoch University in Perth Australia He has broad interests spanning restoration ecology conservation biology landscape ecology and vegetation management He has published 17 books and 266 scientific articles in these areas of research and is a Fellow of the Australian Academy of Science **Applied Simulation and Modelling** International Association of Science and Technology for Development, 1984 **Dissertation Abstracts International**, 2007 **Journal of the American Statistical Association**, 2009 *Forest Science*, 2015 *A Robust-design Formulation of the Incidence Function Model of Metapopulation Dynamics Applied to Two Species of Rails* Benjamin Brewster Risk, 2009



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