

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

M Carnoy



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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: 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

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Applied Hierarchical Modeling in Ecology Marc Kery,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

Encyclopedia of Ecology Brian D. Fath,2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

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 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 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 **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 K ry 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>

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web flashcards learn test match created by ian hulnick terms in this set 10 enslavement when lyddie s mother makes a contract for lyddie to work at cutler s tavern and her wages are sent to her mother lyddie feels like a slave she sleeps on the floor of the attic works several hours per day gets no break time enslavement

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