



SECOND EDITION

# OCCUPANCY ESTIMATION AND MODELING

INFERRING PATTERNS AND DYNAMICS OF SPECIES OCCURRENCE

Darryl I. MacKenze, James D. Nichols, J. Andrew Royle,  
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# Occupancy Estimation And Modeling Inferring Patterns And Dynamics Of Species Occurrence

**K. Ullas Karanth, James D. Nichols**



## **Occupancy Estimation And Modeling Inferring Patterns And Dynamics Of Species Occurrence:**

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

**Occupancy Estimation and Modeling** Darryl I. MacKenzie, 2006 *Occupancy in ecological investigations* Fundamental principles of statistical inference Single species single season occupancy models Single species single season models with heterogeneous detection probabilities Design of single season occupancy studies Single species multiple season occupancy models Occupancy data for multiple species species interactions Occupancy in community level studies Future directions

*Methods For Monitoring Tiger And Prey Populations* K. Ullas Karanth, James D. Nichols, 2017-10-26 This book addresses issues of monitoring populations of tigers ungulate prey species and habitat occupancy with relevance to similar assessments of large mammal species and general biodiversity It covers issues of rigorous sampling modeling estimation and adaptive management of animal populations using cutting edge tools such as camera traps genetic identification and Geographic Information Systems GIS applied under the modern statistical approach of Bayesian and likelihood based inference Of special focus here are animal survey data derived for use under spatial capture recapture occupancy distance sampling mixture modeling and connectivity analyses Because tigers are an icons of global conservation in last five decades enormous amounts of commitment and resources have been invested by tiger range countries and the conservation community for saving wild tigers However status of the big cat remains precarious Rigorous monitoring of surviving wild tiger populations continues to be essential for both understanding and recovering wild tigers However many tiger monitoring programs lack the necessary rigor to generate the reliable results While the deployment of technologies analyses computing power and human resource investments in tiger monitoring have greatly progressed in the

last couple of decades a full comprehension of their correct deployment has not kept pace in practice In this volume Dr Ullas Karanth and Dr James Nichols world leaders in tiger biology and quantitative ecology respectively address this key challenge The have collaborated with an extraordinary array of 30 scientists with expertise in a range of necessary disciplines biology and ecology of tigers prey and habitats advanced statistical theory and practice computation and programming practical field sampling methods that employ technologies as varied as camera traps genetic analyses and geographic information systems The book is a tour de force of cutting edge methodologies for assessing not just tigers but also other predators and their prey The 14 chapters here are lucidly presented in a coherent sequence to provide tiger specific answers to fundamental questions in animal population assessment why monitor what to monitor and how to monitor While highlighting robust methods the authors also clearly point out those that are in use but unreliable The managerial dimension of tiger conservation described here the task of matching monitoring objectives with skills and resources to integrate tiger conservation under an adaptive framework also renders this volume useful to wildlife scientists as well as conservationists

Reptile Ecology and Conservation C. Kenneth Dodd, 2016 This practical handbook of reptile field ecology and conservation brings together a distinguished international group of reptile researchers to provide a state of the art review of the many new and exciting techniques used to study reptiles The authors describe ecological sampling techniques and how they are implemented to monitor the conservation status and population trends of snakes lizards tuatara turtles and crocodilians throughout the world Emphasis is placed on the extent of statistical inference and the biases associated with different techniques and analyses The chapters focus on the application of field research and data analysis for achieving an understanding of reptile life history population dynamics movement patterns thermal ecology conservation status and the relationship between reptiles and their environment The book emphasises the need for thorough planning and demonstrates how a multi dimensional approach incorporates information related to morphology genetics molecular biology epidemiology statistical modelling animal welfare and biosecurity Although accentuating field sampling sections on experimental applications in laboratories and zoos thermal ecology genetics landscape ecology disease and biosecurity and management options are included Much of this information is scattered in the scientific literature or not readily available and the intention is to provide an affordable comprehensive synthesis for use by graduate students researchers and practising conservationists worldwide

**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 **Carnivore Ecology and Conservation** Luigi Boitani, Roger A.

Powell, 2012-01-12 Animals that must hunt and kill for at least part of their living are inherently interesting to many people and the role that carnivores play in biological communities attract interest from ecologists and conservation biologists Conflicts with human activities stimulate continual debates about the management of carnivore populations and throughout the world people seek workable solutions for human carnivore coexistence This concise yet authoritative handbook describes research methods and techniques for the study and conservation of all terrestrial carnivore species Particular attention is paid to techniques for managing the human carnivore interface Descriptions of the latest methodologies are supported by references to case studies whilst dedicated boxes are used to illustrate how a technique is applied to a specific land cover type species or particular socio economic context The book describes the most recent advances in modelling the patterns of animal distributions movements and use of land cover types as well as including the most efficient methods to trap handle and mark carnivores Carnivores are biogeographically diverse and whilst extensive scientific research has investigated many aspects of carnivore biology not all species have been equally covered This book is unique in its intention to provide practical guidance for carrying out research and conservation of carnivores across all species and areas of the world Camera Trapping for Wildlife Research Francesco Rovero, Fridolin Zimmermann, 2016-06-18 Camera trapping is a powerful and now widely used tool in scientific research on wildlife ecology and management It provides a unique opportunity for collecting knowledge investigating the presence of animals or recording and studying behaviour Its visual nature makes it easy to successfully convey findings to a wide audience This book provides a much needed guide to the sound use of camera trapping

for the most common ecological applications to wildlife research Each phase involved in the use of camera trapping is covered Selecting the right camera type Set up and field deployment of your camera trap Defining the sampling design presence absence species inventory abundance occupancy at species level capture mark recapture for density estimation behavioural studies community level analysis Data storage management and analysis for your research topic with illustrative examples for using R and Excel Using camera trapping for monitoring conservation and public engagement Each chapter in this edited volume is essential reading for students scientists ecologists educators and professionals involved in wildlife research or management

**Assessing Distribution, Habitat Suitability, and Site Occupancy of Great Gray Owls (*Strix Nebulosa*) in California** Carie L. Sears, 2006 *Community Ecology*, 2008 [A Robust-design Formulation of the Incidence Function Model of Metapopulation Dynamics Applied to Two Species of Rails](#) Benjamin Brewster Risk, 2009

**Canadian Journal of Forest Research**, 2013 *Three Species Investigations*, 2014 To gather information that will allow Colorado to manage bluehead sucker flannelmouth sucker and roundtail chub in a way that will enhance their current range and minimize the probability of listing under the Endangered Species Act **Transactions of the Illinois State Academy of Science** Illinois State Academy of Science, 2012 *Canadian Journal of Zoology*, 2014 *Wildlife Research*, 2015 [Wildlife Research Report](#), 2018 **California Fish and Game**, 2018 *Wildlife Research Report Abstracts*, 2009 **Canadian Journal of Fisheries and Aquatic Sciences**, 2013 [Acta Theriologica](#), 2014

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