
THE ESTIMATION OF SURVIVAL IN BIRD POPULATIONS
BY RECAPTURES OR SIGHTINGS OF MARKED INDIVIDUALS

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SUMMARY

To estimate bird survival rates, the shortcomings of methods based on recoveries (of dead birds) make it logical to use recapture information (of live birds) in specific statistical models. In this paper, the basic model of Cormack (1964) and some recent developments allowing equality constraints between parameters are reviewed. Applications to Fulmar, Starling, and Coot data are presented, with the emphasis on model selection. For Swallow data, these models designed to estimate survival are compared to more general recapture models. In conclusion, using the Cormack model and its generalisations in the course of population studies on a local scale is recommended.

Keywords: CAPTURE-RECAPTURE; SURVIVAL; BIRDS; MAXIMUM LIKELIHOOD

1. INTRODUCTION

In the management of animal populations and in fundamental research in population dynamics, the emphasis is now on mechanisms - and as a consequence on parameters - of population changes, rather than on changes in numbers by themselves. Survival rates are as such major components of animal population dynamics. To estimate survival rates in birds, ringing provides numerous data that are a real

Marked Individuals In The Study Of Bird Population

**Olin E. Rhodes, Ronald K.
Chesser, Michael H. Smith**



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Marked Individuals in the Study of Bird Population Jean-Dominique Lebreton, Philip M. North, 1993 **Marked Individuals in the Study of Bird Populations** Lebreton, 1993-06-01 Many issues in population biology require an appropriate understanding of demographic patterns The most efficient approaches rely on individually marked animals followed over an extended period of time and the implementation of various sampling schemes With bird populations the most common schemes are radio tracking live recaptures and dead recoveries each with its characteristic time and space scales Relevant statistical methodology differs from that for human populations because sampling is on the whole incomplete

Modeling Demographic Processes in Marked Populations David L. Thomson, Evan G. Cooch, Michael J. Conroy, 2008-12-11 Here biologists and statisticians come together in an interdisciplinary synthesis with the aim of developing new methods to overcome the most significant challenges and constraints faced by quantitative biologists seeking to model demographic rates **Statistical Analysis of Data from Marked Bird Populations** Byron J. T. Morgan, David L. Thomson, 2002

Handbook of Capture-Recapture Analysis Steven C. Amstrup, Trent L. McDonald, Bryan F. J. Manly, 2010-12-16 Every day biologists in parkas raincoats and rubber boots go into the field to capture and mark a variety of animal species Back in the office statisticians create analytical models for the field biologists data But many times representatives of the two professions do not fully understand one another's roles This book bridges this gap by helping biologists understand state of the art statistical methods for analyzing capture recapture data In so doing statisticians will also become more familiar with the design of field studies and with the real life issues facing biologists Reliable outcomes of capture recapture studies are vital to answering key ecological questions Is the population increasing or decreasing Do more or fewer animals have a particular characteristic In answering these questions biologists cannot hope to capture and mark entire populations And frequently the populations change unpredictably during a study Thus increasingly sophisticated models have been employed to convert data into answers to ecological questions This book by experts in capture recapture analysis introduces the most up to date methods for data analysis while explaining the theory behind those methods Thorough concise and portable it will be immensely useful to biologists biometricians and statisticians students in both fields and anyone else engaged in the capture recapture process

Radio Tracking and Animal Populations Joshua Millspaugh, John M. Marzluff, 2001-08-14 Radio Tracking and Animal Populations is a succinct synthesis of emerging technologies and their applications to the empirical and theoretical problems of population assessment The book is divided into sections designed to encompass the various aspects of animal ecology that may be evaluated using radiotelemetry technology experimental design equipment and technology animal movement resource selection and demographics Wildlife biologists at the leading edge of new developments in the technology and its application have joined forces **Design and Analysis of Long-term Ecological Monitoring Studies**

Robert A. Gitzen, 2012-06-07 Comprehensive and multidisciplinary coverage of fundamental and advanced statistical tools

and issues relevant to long term ecological monitoring *Amphibian Ecology and Conservation* C. Kenneth Dodd, 2010
Describes the latest methodologies used to study the ecology of amphibians throughout the world Each of the 27 chapters explains a research approach or technique with emphasis on careful planning and the potential biases of techniques
Statistical modelling landscape ecology and disease are covered for the first time in a techniques handbook **Raptor**
Biomedicine Patrick Thomas Redig, **Demographic Methods across the Tree of Life** Roberto Salguero-Gomez, Marlène Gamelon, 2021-08-31
Demography is everywhere in our lives from birth to death Indeed the universal currencies of survival development reproduction and recruitment shape the performance of all species from microbes to humans The number of techniques for demographic data acquisition and analyses across the entire tree of life microbes fungi plants and animals has drastically increased in recent decades These developments have been partially facilitated by the advent of technologies such as GIS and drones as well as analytical methods including Bayesian statistics and high throughput molecular analyses However despite the universality of demography and the significant research potential that could emerge from unifying i questions across taxa ii data collection protocols and iii analytical tools demographic methods to date have remained taxonomically siloed and methodologically disintegrated This is the first book to attempt a truly unified approach to demography and population ecology in order to address a wide range of questions in ecology evolution and conservation biology across the entire spectrum of life This novel book provides the reader with the fundamentals of data collection model construction analyses and interpretation across a wide repertoire of demographic techniques and protocols It introduces the novice demographer to a broad range of demographic methods including abundance based models life tables matrix population models integral projection models integrated population models individual based models and more Through the careful integration of data collection methods analytical approaches and applications clearly guided throughout with fully reproducible R scripts the book provides an up to date and authoritative overview of the most popular and effective demographic tools Demographic Methods across the Tree of Life is aimed at graduate students and professional researchers in the fields of demography ecology animal behaviour genetics evolutionary biology mathematical biology and wildlife management **Advances in Ecological Research** , 2009-05-16
The book is based on data collected during the past 10 years by Zackenberg Ecological Research Operations ZERO at Zackenberg Research Station in northeast Greenland This volume covers the function of Arctic ecosystems based on the most comprehensive long term data set in the world from a well defined Arctic ecosystem Editors offer a comprehensive and authoritative analysis of how climate variability is influencing an Arctic ecosystem and how the Arctic ecosystems have inherent feedback mechanisms interacting with climate variability or change The latest research on the functioning of Arctic ecosystems Supplements current books on Arctic climate impact assessment as a case study for ecological specialists
Discusses the complex perpetuating effects on Earth Vital information on modeling ecosystem responses to understand

future climates *Unity in Diversity: Reflections on Ecology after the Legacy of Ramon Margalef*, 2007 **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 Marine Mammal Protection Act and Endangered Species Act Implementation Program, 1999 Anita L. Lopez, Douglas P. DeMaster, 2000 The National Marine Fisheries Service l rN S conducted an aerial survey of the beluga whale population in Cook Inlet Alaska during 8 14 June 1999 The 41 5 hr survey was flown in a twin engine high wing aircraft at an altitude of 244 m 800 ft and speed of 185 km hr 100 kt along a trackline 1 4 km from shore consistent with annual surveys flown each year since 1993 The flights in 1999 included one or more surveys of coastal areas around nearly the entire Inlet and 1 790 km of transects across the Inlet Paired independent observers searched on the coastal left side of the plane where virtually all sightings occur while a single observer and a computer operator/data recorder were on the right side In addition each day a different visitor observed from the left side After finding beluga groups a series of aerial passes were made to allow at least two pairs of primary observers to make four or more counts of each group Inter day counts ranged from 75 to 160 belugas near the Susitna River between the Beluga and Little Susitna Rivers 13 to 43 in Knik Arm and 17 to 30 in Chickaloon Bay but no belugas were found in lower Cook Inlet The sum of the aerial estimates using median counts from each site not corrected for missed whales ranged from 197 to 221 whales depending on observer The index count for 1999 is 217 which is slightly higher than the index counts for 1998 193 but lower than all index counts by NMFS observers between 1993 97 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

Wildlife Study Design Michael L. Morrison, William M. Block, M. Dale Strickland, Bret A. Collier, Markus J. Peterson, 2008-05-25 We developed the first edition of this book because we perceived a need for a compilation on study design with application to studies of the ecology conservation and management of wildlife We felt that the need for coverage of study design in one source was strong and although a few books and monographs existed on some of the topics that we covered no single work attempted to synthesize the many facets of wildlife study design We decided to develop this second edition because our original goal synthesis of study design remains strong and because we each gathered a substantial body of new material with which we could update and expand each chapter Several of us also used the first edition as the basis for workshops and graduate teaching which provided us with many valuable suggestions from readers on how to improve the text In particular Morrison received a detailed review from the graduate students in his Wildlife Study Design course at Texas A M University We also paid heed to the reviews of the first edition that appeared in the literature

Population Dynamics in Ecological Space and Time Olin E. Rhodes, Ronald K. Chesser, Michael H. Smith, 1996-08 As profound threats to ecosystems increase worldwide ecologists must move beyond studying single communities at a single point in time All of the dynamic interconnected spatial and temporal processes that determine the distribution and abundance of species must be understood in order to develop new conservation and management strategies This volume is the first to integrate mathematical and biological approaches to these crucial topics The editors include not only a wide variety of theoretical approaches but also a broad range of experimental and field studies with chapters written by renowned experts in community ecology ecological modeling population genetics and conservation biology In addition to providing new insights into well known topics such as migration the authors also introduce some less familiar subjects including bacterial population genetics and ecotoxicology For anyone interested in the study management and conservation of populations this book will prove to be a valuable resource

Modelling Population Dynamics K. B. Newman, S. T. Buckland, B. J. T. Morgan, R.

King, D. L. Borchers, D. J. Cole, P. Besbeas, O. Gimenez, L. Thomas, 2014-07-16 This book gives a unifying framework for estimating the abundance of open populations subject to births, deaths, and movement given imperfect measurements or samples of the populations. The focus is primarily on populations of vertebrates for which dynamics are typically modelled within the framework of an annual cycle and for which stochastic variability in the demographic processes is usually modest. Discrete time models are developed in which animals can be assigned to discrete states such as age class, gender, maturity, population within a metapopulation, or species. For multi-species models, the book goes well beyond estimation of abundance, allowing inference on underlying population processes such as birth or recruitment, survival, and movement. This requires the formulation and fitting of population dynamics models. The resulting fitted models yield both estimates of abundance and estimates of parameters characterizing the underlying processes. **Analysis and Management of Animal Populations** Byron K. Williams, James D. Nichols, Michael J. Conroy, 2002-05-16 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the management of animal populations. It covers the modeling of population responses to management actions, the estimation of quantities needed in the modeling effort, and the application of these estimates and models to the development of sound management decisions. The book synthesizes and integrates in a single volume the methods associated with these themes as they apply to ecological assessment and conservation of animal populations. Integrates population modeling, parameter estimation, and decision theoretic approaches to management in a single cohesive framework. Provides authoritative state of the art descriptions of quantitative approaches to modeling, estimation, and decision making. Emphasizes the role of mathematical modeling in the conduct of science and management. Utilizes a unifying biological context, consistent mathematical notation, and numerous biological examples. *Estimating the Missing People in the UK 1991 Population Census* Dr. H.M. Wasiul Islam, 2015-12-21 In order to assess the coverage and the quality of the census data of the 1991 census, the Census Validation Survey (CVS) was carried out by the Social Survey Division of OPCS. The survey produced estimates of household spaces, households, and persons together with 95 percent confidence intervals. The CVS estimated the census undercount from six different samples, five of which were drawn from the census records and hence dependent. From the comparison between 1991 census results and demographic estimates, it was felt that CVS failed to estimate the true undercount figure of the 1991 census. Moreover, the CVS methodology was unable to estimate the undercount by age, sex, race, and geographic categories. This book presents methods for estimating population by age, sex, and race as well as geographic categories. Three different estimators, Chandra Sekar, Greenfield, and El Sayed Nour, using information from two different sources, census and survey, are discussed. Adjustment factors are generally computed as the ratios of these estimates to the census counts. Average estimates from these three estimators may produce better adjustment factors. Models to produce more accurate estimates of the size of the closed population by using a second sample by matching with census and survey are also discussed. The models we

present provide a mechanism for separating out the dependence between census and survey data induced by individual heterogeneity. The resulting data take the form of $2 \times 2 \times 2$ table in which only one of the eight cells is unknown. Using log linear quasi symmetry models we describe how to estimate the expected values of the observable cells of this table. To estimate the populations for local authorities LA a regression method is presented. The resulting estimates are found to be more accurate than the CVS estimates and were also close to the 1991 demographic estimates. We describe a methodology for estimating the accuracy of the dual systems estimates of population with the help of hypothetical data. The methodology is based on decompositions of the total error into components such as sampling error, matching error and other nonsampling errors. An imputation method and some recommendations are also discussed.

Marked Individuals In The Study Of Bird Population Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Marked Individuals In The Study Of Bird Population**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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