

Stochastic Population Dynamics in Ecology and Conservation

Russell Lande
Steinar Engen
Bernt-Erik Sæther



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Oxford Series in Ecology and Evolution

Stochastic Population Dynamics In Ecology And Conservation

AW Chickering



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Stochastic Population Dynamics in Ecology and Conservation Russell Lande, Steinar Engen, Bernt-Erik Sæther, 2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This book provides the most comprehensive introduction to stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral

Introduction to Modeling in Wildlife and Resource Conservation Norman Owen-Smith, 2009-03-12 This book provides students with the skills to develop their own models for application in conservation biology and wildlife management Assuming no special mathematical expertise the computational models used are kept simple and show how to develop models in both spreadsheet and programming language format Develops thought provoking applications which emphasize the value of modeling as a learning tool Examines basic descriptive equations matrix representations consumer resources interactions applications in simulation scenarios harvesting population viability metapopulation dynamics disease outbreaks vegetation stage and state dynamics habitat suitability assessment and model selection statistics Includes a wide range of examples relating to birds fish plants and large African mammals

Theoretical Ecology Kevin S. McCann, Gabriel Gellner, 2020 Theoretical Ecology concepts and applications continues the authoritative and established sequence of theoretical ecology books initiated by Robert M May which helped pave the way for ecology to become a more robust theoretical science encouraging the modern biologist to better understand the mathematics behind their theories This latest instalment builds on the legacy of its predecessors with a completely new set of contributions Rather than placing emphasis on the historical ideas in theoretical ecology the Editors have encouraged each contribution to synthesize historical theoretical ideas within modern frameworks that have emerged in the last 10 20 years e g bridging

population interactions to whole food webs describe novel theory that has emerged in the last 20 years from historical empirical areas e.g. macro ecology and finally to cover the rapidly expanding area of theoretical ecological applications e.g. disease theory and global change theory The result is a forward looking synthesis that will help guide the field through a further decade of discovery and development It is written for upper level undergraduate students graduate students and researchers seeking synthesis and the state of the art in growing areas of interest in theoretical ecology genetics

evolutionary ecology and mathematical biology **Models in Population, Community and Ecosystem Dynamics** Mehdi Cherif, Jurek Kolasa, Rui-Wu Wang, 2024-04-01 *Population Ecology in Practice* Dennis L. Murray, Brett K.

Sandercock, 2019-12-27 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

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 *Effects of Climate Change on Birds* Anders Pape Møller,Wolfgang Fiedler,Peter Berthold,2010-08-12 *Effects of Climate Change on Birds* provides an exhaustive and up to date synthesis of the science of climate change as it relates to birds Back cover *Improving Natural Resource Management* Timothy C. Haas,2011-01-13 The decision to implement environmental protection options is a political one These and other political and social decisions affect the balance of the ecosystem and how the point of equilibrium desired is to be reached This book develops a stochastic temporal model of how political processes influence and are influenced by ecosystem processes and looks at how to find the most politically feasible plan for managing an at risk ecosystem Finding such a plan is accomplished by first fitting a mechanistic political and ecological model to a data set composed of observations on both political actions that impact an ecosystem and variables that describe the ecosystem The parameters of this fitted model are perturbed just enough to cause human behaviour to change so that desired ecosystem states occur This perturbed model gives the ecosystem management plan needed to reach desired ecosystem states To construct such a set of interacting models topics from political science ecology probability and statistics are developed and explored Key features Explores politically feasible ways to manage at risk ecosystems Gives agent based models of how social groups affect ecosystems through time Demonstrates how to fit models of population dynamics to mixtures of wildlife data Presents statistical methods for fitting models of group behaviour to political action data Supported by an accompanying website featuring datasets and JAVA code This book will be useful to managers and analysts working in organizations charged with finding practical ways to sustain biodiversity or the physical environment Furthermore this book also provides a political roadmap to help lawmakers and administrators improve institutional environmental management decision making **Current Trends in Wildlife Research** Rafael Mateo,Beatriz Arroyo,Jesus T. Garcia,2016-04-25 This book the first in the Wildlife Research Monograph series defines wildlife research in a variety of contexts and reviews recent research trends The authors present the current developments they have identified using bibliometric analyses of the most common relevant and emerging topics in wildlife research over the last three decades Diverse aspects of wildlife research are discussed including wildlife demography infections spread between wildlife livestock and humans habitat requirements and management as well as the effects of renewable energy and pollutants on wildlife Furthermore the authors explore topics like advances in the study of species distribution invasive species use of molecular markers in wildlife studies and the sustainability of wildlife exploitation and conservation conflicts The book offers a comprehensive overview of advances in wildlife research in the last decades

Game Theory in Biology John M. McNamara,Olof Leimar,2020 This novel reassessment of the field presents the central concepts in evolutionary game theory and provides an authoritative and up to date account The focus is on concepts that are important for biologists in their attempts to explain observations This strong connection between concepts and applications

is a recurrent theme throughout the book Adaptation and the Brain Susan D. Healy, 2021 What role has natural selection played in shaping the structure and function of the vertebrate brain This accessible book unravels the myriad adaptive explanations that have built up over decades providing both a review and a critique of the work that has sought to explain which natural selection pressures have led to changes in brain size **Energetic Food Webs** John C. Moore, Peter C. de Ruiter, 2012-05-31 This novel book bridges the gap between the energetic and species approaches to studying food webs addressing many important topics in ecology Species matter and energy are common features of all ecological systems Through the lens of complex adaptive systems thinking the authors explore how the inextricable relationship between species matter and energy can explain how systems are structured and how they persist in real and model systems Food webs are viewed as open and dynamic systems The central theme of the book is that the basis of ecosystem persistence and stability rests on the interplay between the rates of input of energy into the system from living and dead sources and the patterns in utilization of energy that result from the trophic interactions among species within the system To develop this theme the authors integrate the latest work on community dynamics ecosystem energetics and stability In so doing they present a unified ecology that dispels the categorization of the field into the separate subdisciplines of population community and ecosystem ecology Energetic Food Webs is suitable for both graduate level students and professional researchers in the general field of ecology It will be of particular relevance and use to those working in the specific areas of food webs species dynamics material and energy cycling as well as community and ecosystem ecology Proceedings of the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024), Volume 2 Asit Saha, Santo Banerjee, 2024-10-10 This book covers the latest advancements and applications of nonlinear dynamics in various fields of science and engineering presenting a curated selection of peer reviewed contributions at the 2nd International Conference on Nonlinear Dynamics and Applications ICNDA 2024 at Sikkim Manipal Institute of Technology SMIT Organized by the Department of Mathematics SMIT SMU this international conference provides a platform for scientists researchers and inventors to share their findings and exchange ideas in the ever evolving field of nonlinear dynamics This book comprises three volumes Volume 2 focuses on chaos complexity and fractals in dynamical systems It covers topics such as novel methods for solving population balance models analysis of fractal structures and nonlinear partial differential equations dynamics of disease therapy and cytokine interactions stability and behavior of predator prey and ecological systems fluid dynamics and heat transfer in nanofluids and numerical and analytical approaches to material and structural optimization **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 Standard statistics revisited Modeling variance Dynamic models **Encyclopedia of Environmental Change** John A Matthews, 2013-12-13 Accessibly written by a team of

international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

Data-driven Modelling of Structured Populations

Stephen P. Ellner,Dylan Z. Childs,Mark Rees,2016-05-13 This book is a How To guide for modeling population dynamics using Integral Projection Models IPM starting from observational data It is written by a leading research team in this area and includes code in the R language in the text and online to carry out all computations The intended audience are ecologists evolutionary biologists and mathematical biologists interested in developing data driven models for animal and plant populations IPMs may seem hard as they involve integrals The aim of this book is to demystify IPMs so they become the model of choice for populations structured by size or other continuously varying traits The book uses real examples of increasing complexity to show how the life cycle of the study organism naturally leads to the appropriate statistical analysis which leads directly to the IPM itself A wide range of model types and analyses are presented including model construction computational methods and the underlying theory with the more technical material in Boxes and Appendices Self contained R code which replicates all of the figures and calculations within the text is available to readers on GitHub Stephen P Ellner is Horace White Professor of Ecology and Evolutionary Biology at Cornell University USA Dylan Z Childs is Lecturer and NERC Postdoctoral Fellow in the Department of Animal and Plant Sciences at The University of Sheffield UK Mark Rees is Professor in the Department of Animal and Plant Sciences at The University of Sheffield UK

Ecological Speciation Patrik Nosil,2012-03-15 It then reviews the three components of ecological speciation and discusses the geography and genomic basis of the process

Evolutionary Biomechanics Graham K. Taylor,Adrian L. R. Thomas,2014 Recent research in

biomechanics is increasingly revealing a set of special cases where universal physical laws constrain the trajectories and more controversially even the endpoints of the evolutionary process For the first time this book brings together a broad range of examples from the latest research in evolutionary biomechanics to examine this phenomenon Each chapter follows a similar theme dealing first with the underlying physics and then examining the biological responses to selection Examples of convergent evolution are used to analyse the nature of the trajectories of adaptation during the progressive approach towards a physically defined optimum This advanced textbook is suitable for graduate level students as well as professional researchers in the fields of biomechanics physiology evolutionary biology and palaeontology It will also be of relevance and use to researchers in the physical sciences and engineering

Software Engineering and Formal Methods Carlos Canal,Akram Idani,2015-01-31 This book constitutes revised selected papers from the workshops collocated with the SEFM 2014 conference on Software Engineering and Formal Methods held in Grenoble France in September 2014 The 26 papers included in this volume were carefully reviewed and selected from 49 submissions They are from the following workshops the 1st Workshop on Human Oriented Formal Methods From Readability to Automation HOFM 2014 the 3rd International Symposium on Modelling and Knowledge Management Applications Systems and Domains MoKMaSD 2014 the 8th International Workshop on Foundations and Techniques for Open Source Software Certification Open Cert 2014 the 1st Workshop on Safety and Formal Methods SaFoMe 2014 and the 4th Workshop on Formal Methods in the Development of Software WS FMDS 2014

Aboveground-Belowground Linkages Richard D. Bardgett,David A. Wardle,2010-07-29 Aboveground Belowground Linkages provides the most up to date and comprehensive synthesis of recent advances in our understanding of the roles that interactions between aboveground and belowground communities play in regulating the structure and function of terrestrial ecosystems and their responses to global change It charts the historical development of this field of ecology and evaluates what can be learned from the recent proliferation of studies on the ecological and biogeochemical significance of aboveground belowground linkages The book is structured around four key topics biotic interactions in the soil plant community effects the role of aboveground consumers and the influence of species gains and losses A concluding chapter draws together this information and identifies a number of cross cutting themes including consideration of aboveground belowground feedbacks that occur at different spatial and temporal scales the consequences of these feedbacks for ecosystem processes and how aboveground belowground interactions link to human induced global change

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Stochastic Population Dynamics In Ecology And Conservation Introduction

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