

# *Population Dynamics in Ecological Space and Time*

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# Population Dynamics In Ecological Space And Time

**Russell Greenberg, Peter P. Marra**



## **Population Dynamics In Ecological Space And Time:**

*Population Dynamics in Ecological Space and Time* Olin E. Rhodes, Ronald K. Chesser, Michael H. Smith, 1996

**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

**Ecotoxicology** Michael C. Newman, William H. Clements, 2007-12-13 A unique presentation that unifies the field this book brings together concepts and information about contaminant effects at all levels of the biological hierarchy Beginning at the biomolecular level this book builds progressively toward a discussion of effects to the global biosphere Emphasizing ecological components and fundamental paradigms the authors strike a balance between the presentation of details relevant at each level and the integration of phenomena and processes among levels A milestone in the field the book is suitable for graduate courses as well as a reference for professionals in the field Stability in Model

Populations Laurence D. Mueller, Amitabh Joshi, 2020-03-31 Throughout the twentieth century biologists investigated the mechanisms that stabilize biological populations populations which if unchecked by such agencies as competition and predation should grow geometrically How is order in nature maintained in the face of the seemingly disorderly struggle for existence In this book Laurence Mueller and Amitabh Joshi examine current theories of population stability and show how recent laboratory research on model populations particularly blowflies *Tribolium* and *Drosophila* contributes to our understanding of population dynamics and the evolution of stability The authors review the general theory of population stability and critically analyze techniques for inferring whether a given population is in balance or not They then show how rigorous empirical research can reveal both the proximal causes of stability how populations are regulated and maintained at an equilibrium including the relative roles of biotic and abiotic factors and its ultimate mostly evolutionary causes In the process they describe experimental studies on model systems that address the effects of age structure inbreeding resource levels and population structure on the stability and persistence of populations The discussion incorporates the authors own findings on the evolution of population stability in *Drosophila* They go on to relate laboratory work to studies of animals in the wild and to develop a general framework for relating the life history and ecology of a species to its population dynamics

This accessible finely written illustration of how carefully designed experiments can improve theory will have tremendous value for all ecologists and evolutionary biologists Integrating Ecology and Evolution in a Spatial Context Jonathan Silvertown, Janis Antonovics, 2001-08 The profound consequences of the deceptively obvious statement that plants stand still but their genes don't are only just becoming clear In this volume an international team of authors experts in the field of population biology aim to advance our understanding of ecological and evolutionary processes by integrating them within a common frame of reference space Processes operating at three different spatial scales are examined that of the population metapopulation and the geographical range Themes that recur at these different scales include spatial population dynamics population genetics at boundaries the imprint of spatial population dynamics upon genetic structure adaptation evolution of mating systems and the consequences of population genetics for ecological dynamics Whilst the focus is largely on plants the questions addressed are equally applicable to animals It will be a valuable tool for researchers and advanced students not only in this field but also evolutionary biology and resource management *Conservation Biology* Fred Van Dyke, 2008-02-29 Fred Van Dyke's new textbook *Conservation Biology Foundations Concepts Applications* 2nd Edition represents a major new text for anyone interested in conservation Drawing on his vast experience Van Dyke's organizational clarity and readable style make this book an invaluable resource for students in conservation around the globe Presenting key information and well selected examples this student friendly volume carefully integrates the science of conservation biology with its implications for ethics law policy and economics 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 Land use 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      *Theory of Wildlife Population Ecology* Bruce D. Leopold, 2018-10-25 Understanding wildlife population ecology is vital for all wildlife managers and conservation biologists Leopold draws on 30 years of research and teaching experience to give students and natural resource professionals the foundation they need to effectively manage wildlife populations He begins with the key statistical concepts and research approaches necessary to gain insight into various models of population dynamics The many factors that influence wildlife populations are thoroughly explored and their consequences are investigated In addition the author presents techniques for analyzing wildlife harvest data and a lucid discussion of valuable wildlife census methods Frequent examples of foundational literature supplement each chapter with applications of the theories and provide a concise compendium of fundamental concepts of population ecology Abundant statistical exercises reinforce students learning throughout the text      **Ecology, Genetics and Evolution of**

**Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-05-17 Ecology Genetics and Evolution of Metapopulations is a collection of specially commissioned articles that looks at fragmented habitats bringing together recent theoretical advances and empirical studies applying the metapopulation approach Several chapters closely integrate ecology with genetics and evolutionary biology and others illustrate how metapopulation concepts and models can be applied to answer questions about conservation epidemiology and speciation The extensive coverage of theory from highly regarded scientists and the many substantive applications in this one of a kind work make it invaluable to graduate students and researchers in a wide range of disciplines Provides a comprehensive and authoritative account of all aspects of metapopulation biology integrating ecology genetics and evolution Developed by recognized experts including Hanski who won the Balzan Prize for Ecological Sciences Covers novel applications of the metapopulation approach to conservation      *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

**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

**Metapopulation Ecology** Ilkka Hanski, 1999-03-18 Written by a world renowned biologist this volume offers a comprehensive synthesis of current research in this rapidly expanding area of population biology It covers both the essential theory and a wide range of empirical studies including the author's groundbreaking work on the Glanville fritillary butterfly It also includes practical applications to conservation biology The book describes theoretical models for metapopulation dynamics in highly fragmented landscapes and emphasizes spatially realistic models It presents the incidence function model and includes several detailed examples of its application Accessible to advanced undergraduate and graduate students Metapopulation Ecology will be a valuable resource for researchers in population biology conservation biology and landscape ecology

Dynamic Models in Biology Stephen P. Ellner, John Guckenheimer, 2011-09-19 From controlling disease outbreaks to predicting heart attacks dynamic models are increasingly crucial for understanding biological processes Many universities are starting undergraduate programs in computational biology to introduce students to this rapidly growing field In Dynamic Models in Biology the first text on dynamic models specifically written for undergraduate students in the biological sciences ecologist Stephen Ellner and mathematician John Guckenheimer teach students how to understand build and use dynamic models in biology Developed from a course taught by Ellner and Guckenheimer at Cornell University the book is organized around biological applications with mathematics and computing developed through case studies at the molecular cellular and population levels The authors cover both simple analytic models the sort usually found in mathematical biology texts and the

complex computational models now used by both biologists and mathematicians Linked to a Web site with computer lab materials and exercises Dynamic Models in Biology is a major new introduction to dynamic models for students in the biological sciences mathematics and engineering Birds of Two Worlds Russell Greenberg, Peter P. Marra, 2005-05-02 For centuries biologists have tried to understand the underpinnings of avian migration where birds go and why why some migrate and some do not how they adapt to a changing environment and how migratory systems evolve Twenty five years ago the answers to many of these questions were addressed by a collection of migration experts in Keast and Morton's classic work *Migrant Birds in the Neotropics* In 1992 Hagan and Johnston published a follow up book *Ecology and Conservation of Neotropical Migrant Landbirds* In *Birds of Two Worlds* Russell Greenberg and Peter Marra bring together the world's experts on avian migration to discuss its ecology and evolution The contributors move the discussion of migration to a global stage looking at all avian migration systems and delving deeper into the evolutionary foundations of migratory behavior Readers interested in the biology behavior ecology and evolution of birds have waited a decade to see a worthy successor to the earlier classics *Birds of Two Worlds* will complete the trilogy and become indispensable for ornithologists evolutionary biologists serious birders and public and academic libraries Population Viability Analysis Steven R. Beissinger, Dale R. McCullough, 2002-05-04 Many of the world's leading conservation and population biologists evaluate what has become a key tool in estimating extinction risk and evaluating potential recovery strategies population viability analysis or PVA *Applied Geography* Michael Pacione, 2002-03-11 *Applied Geography* offers an invaluable introduction to useful research in physical environmental and human geography and provides a new focus and reference point for investigating and understanding problem orientated research Forty nine leading experts in the field introduce and explore research which crosses the traditional boundary between physical and human geography A wide range of key issues and contemporary debates are within the book's main sections which cover natural and environmental hazards environmental change and management challenges of the human environment techniques of spatial analysis *Applied geography* is the application of geographic knowledge and skills to identify the nature and causes of social economic and environmental problems and inform policies which lead to their resolution *Ecological and Economic Entomology* Brian E. Freeman, 2020-11-11 *Ecological and Economic Entomology* is a comprehensive advanced text covering all aspects of the role of insects in natural ecosystems and their impacts on human activity The book is divided into two sections The first section begins with an outline of the structure classification and importance of insects followed by the geographical aspects of plant distribution and the complex defences plants marshal against herbivorous insects Insect pests affecting plant roots stem leaf and reproductive systems are covered in a comprehensive review This section also covers insects that are important in medical and veterinary science paying particular attention to those that transmit pathogens The section concludes with the beneficial aspects of insects especially their use in biological control but also as soil formers and their importance in forensic science Principles and Methods in

Landscape Ecology Almo Farina, 2022-05-25 This third thoroughly updated edition of a well received book presents the most complete collection of theories paradigms and methods utilized by the landscape sciences With the introduction of new ecosemiotic concepts and innovative managing procedures it offers a broad list of ecological ecosemiotical and cultural tools to investigate interpret and manage the environmental complexity according to a species specific individual based approach Readers will discover the importance of a landscape perspective to create strategic bridges between science and humanities favored by the holistic sight of sensorial visual acoustic olfactory tactile and thermal scapes Distributed in 10 chapters the content covers many aspects of the landscape sciences ranging from the description of fundamental theories principles and models originated by ecological approaches like source sink models island biogeography hierarchical theory and scale The ecosemiotical approaches like the eco field model the ecoscape paradigm and the general theory of resources are widely described and discussed A cultural approach to landscape is utilized to focus on the heritage values of territories and their environmental identity This book written in an accessible and didactic style is particularly dedicated to undergraduate and graduate students but also scholars in ecology agroforestry urban planning nature design conservation and remediation Land practitioners farmers and policymakers can use this book as an authoritative guide to better understand the function and role of environmental systems according to a social economic integrated perspective **Ecosystem Management** Fred B.

Samson, Fritz L. Knopf, 1996-05-29 processes 3 ensure the integrity of ecosys The theory and practice of ecosystem manage tems and 4 advocate the sustainable use of ment is pivotal to the debate over how to sustain the health and productivity of our envi natural resources In this book each of these ronment In particular the role of ecosystems four topics is addressed by a set of eight key in preserving biological diversity their contri journal articles The first article in each section bution to economic growth and their influence provides an overview followed by case histo ries and a concluding paper which is a commen on human well being is highly controversial tary on the difficulty of the issue or assesses its Lubchenco et al 1991 Traditional resource management does not protect natural values future direction An article by Risser provides a Sax 1993 or provide for the sustainable pro closing synthesis to this collection duction of goods and services Barnes 1993 The authors of the articles in Part 1 Under Yet a number of researchers and managers stand Diversity speak to the current problems further question the ability of science to pro and directions in the conservation of biological vide sufficiently powerful tools for the under diversity Tilman and Downing argue that standing and implementation of ecosystem preservation of native biodiversity is essential management Clark 1996 **The Impact of Environmental Variability on Ecological Systems** D.A.

Vasseur, K.S. McCann, 2007-05-08 Fluctuations in the environmental conditions impacting life are ubiquitous These fluctuations induce changes in the vital processes occurring within individual organisms such as cellular metabolism and the ecological processes occurring among individuals such as competition mutualism and predation ultimately leading to observable fluctuations in the commonly measured characteristics of ecological systems From a very simple perspective

these processes are all modulators of environmental variability We might best be able to understand the final form of this modulation the impact of environmental variability on ecological systems by building from an understanding of the responses of these life processes in isolation to an understanding of their responses in harmony The impact of environmental variability on ecological systems is an issue that has been at the forefront of ecological research for many years Research is taking place on many fronts including theoretical mathematical based analyses natural ecosystem observation and experimentation This book brings together contributions from these three fronts to provide readers with a comprehensive look at the challenges for ecological systems and ecological research alike

## Unveiling the Magic of Words: A Overview of "**Population Dynamics In Ecological Space And Time**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Population Dynamics In Ecological Space And Time**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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