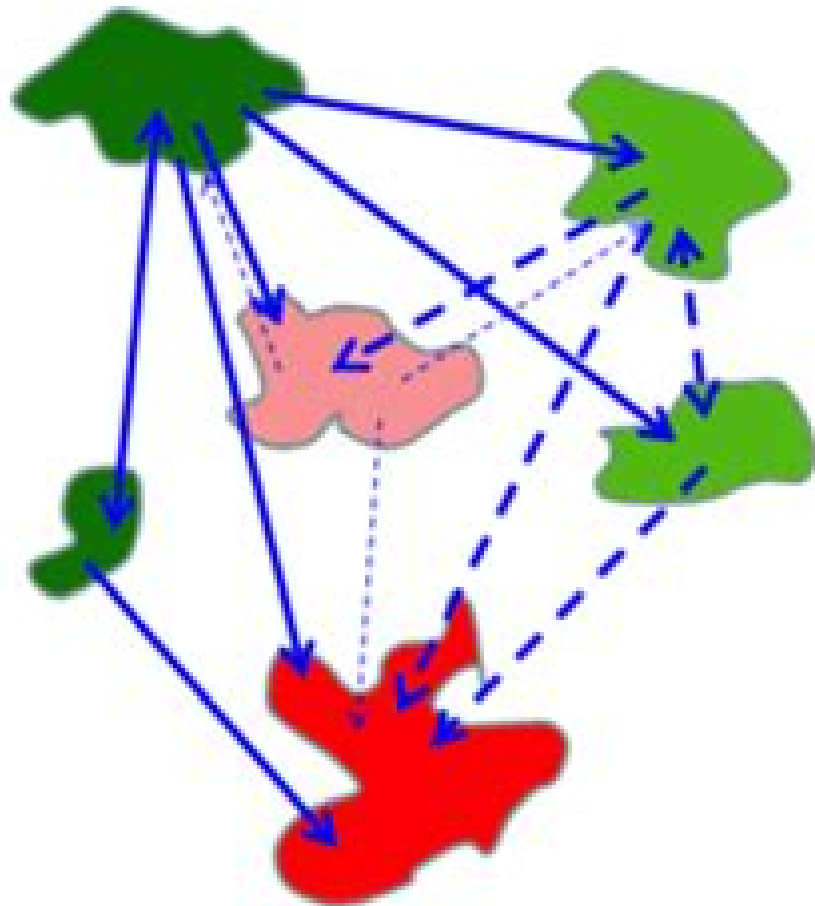


# Metapopulation Dynamics

Some patches may be *usually good* and others may be *usually bad* (and others *sometimes good* and *sometimes bad*)



**source sub-populations**  
 $b \gg d$  produce lots of  
dispersing individuals

**sink sub-populations**  
 $b \ll d$  produce few or  
no dispersing individuals

# Metapopulation Ecology

**Michael Ian Westphal**



## **Metapopulation Ecology:**

**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

**Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-02-26 Spatial dynamics landscape population

Metapopulation Biology Ilkka Hanski, Michael E. Gilpin, 1997 This volume presents a review of metapopulation biology It describes key theories of study and applies the best field studies to the conservation of species in fragmented landscapes The work explains and critically assesses the value of the metapopulation concept for field studies and conservation

**Marine Metapopulations** Jacob P. Kritzer, Peter F. Sale, 2010-07-20 Technological improvements have greatly increased the ability of marine scientists to collect and analyze data over large spatial scales and the resultant insights attainable from interpreting those data vastly increase understanding of population dynamics evolution and biogeography Marine Metapopulations provides a synthesis of existing information and understanding and frames the most important future directions and issues First book to systematically apply metapopulation theory directly to marine systems Contributions from leading international ecologists and fisheries biologists Perspectives on a broad array of marine organisms and ecosystems from coastal estuaries to shallow reefs to deep sea hydrothermal vents Critical science for improved management of marine resources Paves the way for future research on large scale spatial ecology of marine systems

Key Topics in Landscape Ecology Jianguo Wu, Richard J. Hobbs, 2007-03-29 Landscape ecology is a relatively new area of study which aims to understand the pattern of interaction of biological and cultural communities within a landscape This book brings together leading figures from the field to provide an up to date survey of recent advances identify key research problems and suggest a future direction for development and expansion of knowledge Providing in depth reviews of the principles and methods for understanding landscape patterns and changes the book illustrates concepts with examples of innovative applications from different parts of the world Forming a current state of the science for the science of landscape ecology this book forms an essential reference for graduate students academics professionals and practitioners in ecology environmental science natural resource management and landscape planning and design

Multitrophic Level Interactions Teja Tscharntke, Bradford A. Hawkins, 2002-03-21 The multitrophic level approach to ecology addresses the complexity of food webs much more realistically than the traditional focus on simple systems and interactions Only in the last few decades

have ecologists become interested in the nature of more complex systems including tritrophic interactions between plants herbivores and natural enemies Plants may directly influence the behaviour of their herbivores natural enemies ecological interactions between two species are often indirectly mediated by a third species landscape structure directly affects local tritrophic interactions and below ground food webs are vital to above ground organisms The relative importance of top down effects control by predators and bottom up effects control by resources must also be determined These interactions are explored in this exciting volume by expert researchers from a variety of ecological fields This book provides a much needed synthesis of multitrophic level interactions and serves as a guide for future research for ecologists of all descriptions

**Metapopulation Dynamics** Linnean Society of London,1991 Metapopulation Dynamics Empirical and Theoretical Investigations covers the 1989 proceedings of a metapopulation dynamics workshop held at Lammi Biological Station Helsinki Finland It is divided into 18 chapters that cover various approaches to spatially structured population and community dynamics After briefly discussing the history of metapopulation ideas and the major conceptual links the book covers types of studies that have been conducted on single species and multispecies metapopulations Then it examines the relationships between metapopulation dynamics the equilibrium theory      **Metapopulation Dynamics: Empirical and Theoretical Investigations** Michael Gilpin,2012-12-02 Metapopulation Dynamics Empirical and Theoretical Investigations covers the 1989 proceedings of a metapopulation dynamics workshop held at Lammi Biological Station Helsinki Finland It is divided into 18 chapters that cover various approaches to spatially structured population and community dynamics After briefly discussing the history of metapopulation ideas and the major conceptual links the book covers types of studies that have been conducted on single species and multispecies metapopulations Then it examines the relationships between metapopulation dynamics the equilibrium theory of island biogeography and the dynamics of populations living in patchy environments It further tackles practical issues and the links between metapopulation dynamics and landscape ecology and between metapopulation dynamics and conservation biology Chapters 4 and 5 present structured models describing changes in the number of individuals within patches and an empirical evaluation of local extinction in metapopulation studies The subsequent chapters discuss several aspects of metapopulation including dispersal and connectivity colonization conspecific attraction extinction and isolation and forest fragmentation The latter chapters describe the concept of habitat fragmentation the diversity and competition in metapopulations the community collapse and the effects of metapopulation studies in predator prey systems      **Insect Movement** Ian Woiwood,D. R. Reynolds,C. D. Thomas,2001 Knowledge of insect movement particularly of flight is crucial to our understanding of the great ecological and evolutionary success of insects The last 20 years have seen many advances in this subject area New fields have arisen such as metapopulation theory and dramatic developments have taken place in methods of studying movement as a result of new techniques in molecular biology and radar monitoring There have also been advances in our knowledge of flight related physiology and behaviour

This book which is based on the main papers presented at the Royal Entomological Society's 20th Symposium held in September 1999 brings us up to date with these developments. It contains chapters on flight mechanisms, foraging movements, migration, the evolution of movement strategies, the interactions between dispersal rates, population structure and gene flow, the effects of climate change on geographical distribution. It is essential reading for entomologists and of interest to those researching animal behaviour, physiology, ecology and genetics.

**Adaptation in Metapopulations** Michael J. Wade, 2016-05-03. Across the globe, populations of plants and animals live in clusters but maintain a connectivity: a population of populations. There are naturally occurring metapopulations such as clusters of groupers spread across coral reefs and there are metapopulations humans have helped create by fragmenting landscapes: stands of trees separated by roads, prairies separated by agricultural farms. As the dynamics of landscape change have accelerated and understanding of how metapopulations function has played a critical role in ecology and evolutionary biology, *Adaptation in Metapopulations* synthesizes the role of genetic interactions in adaptive evolution and their influence on the effectiveness of different types of selection. Drawing on extensive field work and lab experiments cohered with a strong conceptual arc, the work also integrates molecular and organismal biology as Wade explores adaptation at multiple scales and shows how evolutionary dynamics scale from the gene to the metapopulation.

Demography, Migration, and Metapopulation Structure of Pond Breeding Salamanders Peter Cornell Jr. Trenham, 1998. *The American Naturalist*, 2009. Metapopulation Modeling and Optimal Habitat Reconstruction for Birds in the Mount Lofty Ranges, South Australia Michael Ian Westphal, 2003. *Ecology, Genetics and Evolution of Metapopulations* Ilkka A. (University of Helsinki) Hanski, 2004-02.

**Meta-X-** Umweltforschungszentrum Leipzig-Halle, 2003. META X is a user friendly computer program that allows students, teachers and researchers to perform a metapopulation viability analysis, i.e. to assess the extinction risk of meta-populations on discrete, partially isolated patches of habitat in a comfortable way. The CD comes with an extensive handbook which explains the basic concept of the program and takes you on a guided tour through a model experiment. It further provides the necessary scientific background on both metapopulation dynamics and population viability analysis. A special feature of META X is that it supports comparative analyses of alternative scenarios. This predestines META X to serve as an aid for decision making in conservation management and landscape planning. Furthermore, handbook and software together provide an invaluable help in research and teaching.

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**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 Zoology*, 2007.

**Environmental Contaminants and Terrestrial Vertebrates** Peter Heinz Albers, Gary H. Heinz, Harry M. Ohlendorf, 2000. From an October 1998 symposium at the University of Maryland College Park, 13 papers explore not only the effects of contaminants on wildlife but also endpoints and study design and applying research findings to ecological risk.

assessment at contaminated sites The topics include contaminants as a cause for perturbations in terrestrial vertebrate populations the statistical design of wildlife toxicology studies and estimating population level effects on wildlife based on individual level exposures Annotation copyrighted by Book News Inc Portland OR **Journal of Land Use & Environmental Law** ,2001 Annales zoologici Fennici ,2006

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