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The Spatial and Temporal Dynamics of Host-Parasitoid Interactions

Michael P. Hassell



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John M. McNamara, Olof Leimar



Spatial And Temporal Dynamics Of Host Parasitoid Interactions:

The Spatial and Temporal Dynamics of Host-Parasitoid Interactions Michael Hassell, 2000-06-08 This book examines our current understanding of the population dynamics of one kind of interaction that between insect parasitoids and their hosts Parasitoids are amongst the most abundant of all animals and make up about 10% or more of metazoan species Almost no insect species escape their attack Host parasitoid interactions were first modelled over fifty years ago but for many years there was little good empirical information on the important factors that affect host and parasitoid populations The models were very simple and their predictions rather divorced from the complexity of what was visible in the field Now better data is available on many components of host parasitoid systems from field observations and laboratory and field experiments and this allows a much closer correspondence between models and data In particular the past twenty years have seen major advances in our understanding of how host parasitoid interactions are influenced by spatial processes by age structure effects and by competition from additional host and parasitoid species The result is a body of theory that makes direct contact with real systems in the field and provides us with a detailed understanding of what underpins a whole area of population dynamics In this book Michael P Hassell pulls the theory and field data together to present an elegant illustration of the way in which ecological studies advance The Spatial and Temporal Dynamics of Host-parasitoid Interactions

Michael Patrick Hassell, 2000 This book examines our current understanding of the population dynamics of one kind of interaction that between insect parasitoids and their hosts Parasitoids are amongst the most abundant of all animals and make up about 10% or more of metazoan species Almost no insect species escape their attack Host parasitoid interactions were first modelled over fifty years ago but for many years there was little good empirical information on the important factors that affect host and parasitoid populations The models were very simple and their predictions rather divorced from the complexity of what was visible in the field Now better data is available on many components of host parasitoid systems from field observations and laboratory and field experiments and this allows a much closer correspondence between models and data In particular the past twenty years have seen major advances in our understanding of how host parasitoid interactions are influenced by spatial processes by age structure effects and by competition from additional host and parasitoid species The result is a body of theory that makes direct contact with real systems in the field and provides us with a detailed understanding of what underpins a whole area of population dynamics In this book Michael P Hassell pulls the theory and field data together to present an elegant illustration of the way in which ecological studies advance Population Dynamics and Laboratory Ecology Robert Desharnais, 2005-08-04 Population Dynamics and Laboratory Ecology highlights the contributions laboratory studies are making to our understanding of the dynamics of ecological and evolutionary systems Chapters address the scientific rationale for laboratory ecology its historical role within the broader discipline and recent advances in research The book presents results from a wide range of laboratory systems including insects mites plankton

protists and microbes A common theme throughout the book is the value of microcosm studies in advancing our knowledge of ecological and evolutionary principles Each chapter is authored by scientists who are leading experts in their fields The book addresses fundamental questions that are of interest to biologists whether they work in the laboratory or field or whether they are primarily empiricists or theorists Details a scientific rationale for laboratory systems in ecological and evolutionary studies Offers a view on historical role of laboratory studies Includes examples of recent research advances in ecology and evolution using laboratory systems ranging from insects to microbes Integrates mathematics statistics and experimental studies

Evolutionary Ecology Anne E. Magurran, 2005-08-25 The Trinidadian guppy represents a uniquely tractable vertebrate system which has raised key questions in evolutionary ecology and supplied many of the answers This work discusses this study and incorporates significant new findings and insights

Computational Molecular Evolution Ziheng Yang, 2006-10-05 The field of molecular evolution has experienced explosive growth in recent years due to the rapid accumulation of genetic sequence data continuous improvements to computer hardware and software and the development of sophisticated analytical methods The increasing availability of large genomic data sets requires powerful statistical methods to analyse and interpret them generating both computational and conceptual challenges for the field Computational Molecular Evolution provides an up to date and comprehensive coverage of modern statistical and computational methods used in molecular evolutionary analysis such as maximum likelihood and Bayesian statistics Yang describes the models methods and algorithms that are most useful for analysing the ever increasing supply of molecular sequence data with a view to furthering our understanding of the evolution of genes and genomes The book emphasizes essential concepts rather than mathematical proofs It includes detailed derivations and implementation details as well as numerous illustrations worked examples and exercises It will be of relevance and use to students and professional researchers both empiricists and theoreticians in the fields of molecular phylogenetics evolutionary biology population genetics mathematics statistics and computer science Biologists who have used phylogenetic software programs to analyze their own data will find the book particularly rewarding although it should appeal to anyone seeking an authoritative overview of this exciting area of computational biology

Animal Signals John Maynard Smith, Dr. David Harper, 2003-11-06 Why are animal signals reliable This is the central problem for evolutionary biologists interested in signals Of course not all signals are reliable but most are otherwise receivers of signals would ignore them A number of theoretical answers have been proposed and empirical studies made but there still remains a considerable amount of confusion The authors one a theoretician the other a fieldworker introduce a sense of order to this chaos A significant cause of confusion has been the tendency for different researchers to use either the same term with different meanings or different terms with the same meaning The authors attempt to clarify these differences A second cause of confusion has arisen because many biologists continue to assume that there is only one correct explanation for signal reliability The authors argue that the reliability of signals is maintained in several ways

relevant in different circumstances and that biologists must learn to distinguish between them In this book they explain the different theories give examples of signalling systems to which one or another theory applies and point to the many areas where further work both theoretical and empirical is required *Infectious Diseases in Primates* Charles Nunn, Sonia Altizer, 2006-04-27 Recent progress in the field of wildlife disease ecology demonstrates that infectious disease plays a crucial role in the lives of wild animals Parasites and pathogens should be especially important for social animals in which high contact among individuals increases the potential for disease spread As one of the best studied mammalian groups primates offer a unique opportunity to examine how complex behaviours including social organization influence the risk of acquiring infectious diseases and the defences used by animals to avoid infection This book explores the correlates of disease risk in primates including not only social and mating behaviour but also diet habitat use life history geography and phylogeny The authors examine how a core set of host and parasite traits influence patterns of parasitism at three levels of biological organization among individuals among populations and across species A major goal is to synthesize for the first time four disparate areas of research primate behavioural ecology parasite biology wildlife epidemiology and the behavioural and immune defences employed by animals to counter infectious disease Throughout the authors provide an overview of the remarkable diversity of infectious agents found in wild primate populations Additional chapters consider how knowledge of infectious diseases in wild primates can inform efforts focused on primate conservation and human health More generally this book identifies infectious disease as an important frontier in our understanding of primate behaviour and ecology It highlights future challenges for testing the links between host and parasite traits including hypotheses for the effects of disease on primate social and mating systems *Behavioral Ecology of Insect Parasitoids* Eric Wajnberg, Carlos Bernstein, Jacques van Alphen, 2008-04-30 Written by a team of leading international specialists Behavioral Ecology of Insect Parasitoids examines the optimal behaviors that parasitoids exhibit in order to maximize long term offspring production It is an essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs Reviews topical issues including cutting edge research on parasitoid decision making and the implications for biological control Explores applications in other fields provides information on the latest research methods and includes helpful case studies and statistical tools Creates a deeper understanding of the link between behavioural strategies and host mortality resulting in more efficient selective pest management programs Overall this is a fascinating volume that provides a significant contribution to the literature on parasitoid insects It goes a long way toward providing insights into numerous aspects of parasitoid behavior and will stimulate a diversity of future projects something that should be the goal of any such text I highly recommend Wajnberg et al for all of those working on the biology or evolution of parasitoids Palaios 2009 Infectious Disease Ecology Richard S. Ostfeld, Felicia Keesing, Valerie T. Eviner, 2010-12-16 News headlines are forever reporting diseases that take huge tolls on humans wildlife domestic animals

and both cultivated and native plants worldwide These diseases can also completely transform the ecosystems that feed us and provide us with other critical benefits from flood control to water purification And yet diseases sometimes serve to maintain the structure and function of the ecosystems on which humans depend Gathering thirteen essays by forty leading experts who convened at the Cary Conference at the Institute of Ecosystem Studies in 2005 this book develops an integrated framework for understanding where these diseases come from what ecological factors influence their impacts and how they in turn influence ecosystem dynamics It marks the first comprehensive and in depth exploration of the rich and complex linkages between ecology and disease and provides conceptual underpinnings to understand and ameliorate epidemics It also sheds light on the roles that diseases play in ecosystems bringing vital new insights to landscape management issues in particular While the ecological context is a key piece of the puzzle effective control and understanding of diseases requires the interaction of professionals in medicine epidemiology veterinary medicine forestry agriculture and ecology The essential resource on the subject Infectious Disease Ecology seeks to bridge these fields with an ecological approach that focuses on systems thinking and complex interactions

Energetic Food Webs John C. Moore, Peter C. de Ruiter, 2012-05-31 In ecosystems with many species food webs form highly complex networks of resource consumer interactions At the same time the food web as itself needs sufficient resources to develop and survive So in fact food web ecology is about how natural resources form the basis of biological communities in terms of species richness and abundances as well as how species are organised in communities on the basis of the resource availability and use The central theme of this book is that patterns in the utilisation of energy result from the trophic interactions among species and that these patterns form the basis of ecosystem stability The authors integrate the latest work on community dynamics ecosystem energetics and stability and in so doing attempt to dispel the categorisation of the field into the separate subdisciplines of population community and ecosystem ecology Energetic Food Webs represents the first attempt to bridge the gap between the energetic and species approaches to ecology

The Role of Chromosomal Change in Plant Evolution Donald A. Levin, 2002 Genome heterozygosity polyploidy phenotype genes euploid aneuploid

Maximum Entropy and Ecology John Harte, 2011-06-23 Provides readers with the concepts and practical tools required to understand the maximum entropy principle and apply it to an understanding of ecological patterns The theory developed predicts realistic forms for all metrics of ecology that describe patterns in the distribution abundance and energetics of species

Quantitative Ecology and Evolutionary Biology Otso Ovaskainen, Henrik Johan de Knecht, Maria del Mar Delgado, 2016-09-01 This novel interdisciplinary text achieves an integration of empirical data and theory with the aid of mathematical models and statistical methods The emphasis throughout is on spatial ecology and evolution especially on the interplay between environmental heterogeneity and biological processes The book provides a coherent theme by interlinking the modelling approaches used for different subfields of spatial ecology movement ecology population ecology community ecology and genetics and evolutionary ecology each being represented by a separate chapter

Each chapter starts by describing the concept of each modelling approach in its biological context goes on to present the relevant mathematical models and statistical methods and ends with a discussion of the benefits and limitations of each approach The concepts and techniques discussed throughout the book are illustrated throughout with the help of empirical examples This is an advanced text suitable for any biologist interested in the integration of empirical data and theory in spatial ecology evolution through the use of quantitative statistical methods and mathematical models The book will also be of relevance and use as a textbook for graduate level courses in spatial ecology ecological modelling theoretical ecology and statistical ecology

The Evolutionary Biology of Species Timothy G. Barraclough, 2019-06-20 Species are central to understanding the origin and dynamics of biological diversity explaining why lineages split into multiple distinct species is one of the main goals of evolutionary biology However the existence of species is often taken for granted and precisely what is meant by species and whether they really exist as a pattern of nature has rarely been modelled or critically tested This novel book presents a synthetic overview of the evolutionary biology of species describing what species are how they form the consequences of species boundaries and diversity for evolution and patterns of species accumulation over time The central thesis is that species represent more than just a unit of taxonomy they are a model of how diversity is structured as well as how groups of related organisms evolve The author adopts an intentionally broad approach stepping back from the details to consider what species constitute both theoretically and empirically and how we detect them drawing on a wealth of examples from microbes to multicellular organisms

Mitonuclear Ecology Geoffrey E. Hill, 2019-04-30 This novel text provides a concise synthesis of how the interactions between mitochondrial and nuclear genes have played a major role in shaping the ecology and evolution of eukaryotes The foundation for this new focus on mitonuclear interactions originated from research in biochemistry and cell biology laboratories although the broader ecological and evolutionary implications have yet to be fully explored The imperative for mitonuclear coadaptation is proposed to be a major selective force in the evolution of sexual reproduction and two mating types in eukaryotes in the formation of species in the evolution of ornaments and sexual selection in the process of adaptation and in the evolution of senescence The book highlights the importance of mitonuclear coadaptation to the evolution of complex life and champions mitonuclear ecology as an important subdiscipline in ecology and evolution

Game Theory in Biology John M. McNamara, Olof Leimar, 2020-09-24 The principles of game theory apply to a wide range of topics in biology This book 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 which incorporates recent and traditional ideas from animal psychology neuroscience and machine learning that provide a mechanistic basis for behaviours shown by players of a game The approaches taken to modelling games often rest on idealized and unrealistic assumptions whose limitations and consequences are not always appreciated The authors provide a

novel reassessment of the field highlighting how to overcome limitations and identifying future directions Game Theory in Biology is an advanced textbook suitable for graduate level students as well as professional researchers both empiricists and theoreticians in the fields of behavioural ecology and evolutionary biology It will also be of relevance to a broader interdisciplinary audience including psychologists and neuroscientists **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 *Living in*

Groups Jens Krause, Graeme D. Ruxton, 2002-10-10 Shoals swarms flocks herds group formation is a widespread phenomenon in animal populations It raises several interesting questions for behavioral ecologists Why do animals form and live in groups and what factors influence the ways in which they do this What are the costs and benefits to an animal of group living How are these influenced by ecological factors The authors familiarize the reader with cutting edge ideas on the ecology and evolution of group living animals and detail fascinating case studies demonstrating them in action **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

Parasites and the Behavior of Animals Janice Moore, 2002-01-31 Moore places parasite induced behavioural alterations in an evolutionary and ecological context by examining the adaptive nature of those changes and possible constraints on them

Decoding **Spatial And Temporal Dynamics Of Host Parasitoid Interactions**: Revealing the Captivating Potential of Verbal Expression

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