Metapopulations and Wildlife Conservation



Edited by Dale R. McCullough

Metapopulations And Wildlife Conservation

Rob H. G. Jongman, Gloria Pungetti

Metapopulations And Wildlife Conservation:

Metapopulations and Wildlife Conservation Dale Richard McCullough, 1996-09-01 Development of rural landscapes is converting once vast expanses of open space into pockets of habitat where wildlife populations exist in isolation from other members of their species. The central concept of metapopulation dynamics that a constellation of partially isolated patches can yield overall stability to a system that is chaotic at the level of the individual patch offers an important new way of thinking about the conservation and management of populations dispersed among small habitat fragments This approach is proving to be a rich resource for biologists hoping to arrest the current catastrophic loss of biodiversity An understanding of metapopulation theory and analysis is critical to the modern practice of wildlife conservation and management This volume provides a comprehensive overview of the subject addressing the needs of an applied professional audience for comprehensible information to integrate into their practices Leading conservation biologists ecologists wildlife managers and other experts consider the emergence and development of metapopulation theory and explore its applicability and usefulness to real world conservation programs Introductory chapters provide background information on basic concepts such as models genetics landscape configuration and edges and corridors Subsequent chapters present detailed methods of analyzing metapopulation structure Case studies of an array of vertebrate species including the Swedish pool frog the northern spotted owl Stephens kangaroo rat Florida scrub jay Mediterranean monk seal Steller sea lion tule elk and others illustrate nuances of metapopulation theory analysis and its practical applications Contributors describe what metapopulation approaches bring to wildlife conservation and management present models of how metapopulation thinking has been applied in specific situations and suggest the analysis required in given cases Metapopulations and Wildlife Conservation is essential reading for anyone working in the field of wildlife conservation and managment Ecology, Genetics and Evolution of Metapopulations Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-05-17 Ecology Genetics and Evolution of Metapopulations is acollection 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 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.

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 **Forest Fragmentation** James Arthur Rochelle, Leslie A. Lehmann, Joe Wisniewski, 1999-01-01 The book contains 15 chapters and provides an overview and synthesis of forest fragmentation and its influences on key ecological processes and vertebrate productivity Land use practices and their effects on vertebrate populations and productivity are discussed and examples of several planning approaches to address landscape level management effects are described **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 A Review and Assessment of Land-use Change Models Chetan Agarwal, 2002 Ecological Networks and Greenways Rob H. G. Jongman, Gloria Pungetti, 2004-07 The establishment of ecological networks in Europe and greenways in America has required some of the most advanced applications of the principles of landscape ecology to land use planning This book provides a thorough overview of recent developments in this emerging field combining theoretical concepts of landscape ecology with the actual practice of landscape planning and management In addition to biological and physical considerations important to biodiversity protection and restoration equal weight is given to cultural and aesthetic issues to illustrate how sympathetic sustainable land use policies can be implemented Examples are given for large scale areas Estonia and Florida as well as regional areas such as Milano Chicago and the Argentinian Yungas This invaluable book will provide a wealth of information for all those concerned with biodiversity conservation through networks and greenways and their relevance to the planning process

whether researcher land manager or policy maker Walton County, Florida United States. Office of the Assistant Secretary Sierra Nevada Forest Plan Amendment ,2000 of the Army (Civil Works), 2014 Restoration Ecology Sigurdur Greipsson, 2011 The Earth's biodiversity is at risk as delicate ecosystems struggle to overcome global climate change rain forest destruction acid rain overfishing erosion and a host of other interconnected environmental problems Written for upper level undergraduate and graduate students Restoration Ecology addresses these growing environmental Concerns and offers practical and economical solution The text opens with a look at fundamental ecological principles critical to understanding restoration including nutriert cycing and factors that regulate ecosystem function and continues on to explore restoration in practice providing real life accounts of the restoration of various disturbed ecosystems. The final section delves into the planning implementation monitoring and appraisal of restoration work Book Jacket Wilderness Science in a Time of Change Conference, 2000 Wilderness Science in a Time of Change Conference: Wilderness within the context of larger systems, 2000 Sustainability Challenges in Sub-Saharan Africa II Alexandros Gasparatos, Merle Naidoo, Abubakari Ahmed, Alice Karanja, Kensuke Fukushi, Osamu Saito, Kazuhiko Takeuchi, 2020-09-05 The aim of this two volume book series is to highlight some of the most pervasive sustainability challenges that Sub Saharan Africa faces The two volumes contain 20 chapters that illustrate very diverse sustainability challenges throughout the continent adopting interdisciplinary and problem oriented research approaches and methods from the natural and the social sciences. The very diverse case study chapters are put into perspective with chapters that introduce key sustainability challenges using a regional focus Through this multi scale and interdisciplinary approach the two volumes provide an authoritative source about the major sustainability challenges in the continent and how to mobilise such perspectives to develop appropriate solutions The two volumes have a uniquely broad focus that fills a major gap in the emerging Sustainability Science scholarship Parts I II highlight specific case studies on major sustainability challenges from Eastern and Southern Africa Part III synthesizes the main lessons learnt from Encyclopedia of Islands Rosemary Gillespie, David Clague, 2009-08-19 Islands have the chapters in the two edited volumes captured the imagination of scientists and the public for centuries unique and rare environments their isolation makes them natural laboratories for ecology and evolution This authoritative alphabetically arranged reference featuring more than 200 succinct articles by leading scientists from around the world provides broad coverage of all the island sciences But what exactly is an island The volume editors define it here as any discrete habitat isolated from other habitats by inhospitable surroundings The Encyclopedia of Islands examines many such insular settings oceanic and continental islands as well as places such as caves mountaintops and whale falls at the bottom of the ocean This essential one stop resource extensively illustrated with color photographs clear maps and graphics will introduce island science to a wide audience and spur further research on some of the planet's most fascinating habitats **Fundamentals of Biogeography**, **Computational** Science and Its Applications - ICCSA 2014 Beniamino Murgante, Sanjay Misra, Ana Maria Alves Coutinho Rocha, Carmelo

Torre, Jorge Gustavo Rocha, Maria Irene Falcão, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2014-07-03 The six volume set LNCS 8579 8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications ICCSA 2014 held in Guimar es Portugal in June July 2014 The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167 initial submissions. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security Proceedings RMRS., 1998 **Density and Wilderness Experience** Wayne A. Freimund, 2001 Shrubland Ecosystem Genetics and Biodiversity E. Durant McArthur, 2001 The 53 papers in this proceedings include a section celebrating the 25 year anniversary of the Shrub Sciences Laboratory 4 papers three sections devoted to themes genetics and biodiversity 12 papers disturbance ecology and biodiversity 14 papers ecophysiology 13 papers community ecology 9 papers and field trip section 1 paper The anniversary session papers emphasized the productivity and history of the Shrub Sciences Laboratory 100 years of genetics plant materials development for wildland shrub ecosystems and current challenges in management and research in wildland shrub ecosystems. The papers in each of the thematic science sessions were centered on wildland shrub ecosystems. The field trip featured the genetics and ecology of chenopod shrublands of east central Utah The papers were presented at the 11th Wildland Shrub Symposium Shrubland Ecosystem Genetics and Biodiversity held at the Brigham Young University Conference Center Provo UT June 13 15 2000

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