

OXFORD
BIOLOGY

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Spatial Conservation Prioritization

Quantitative Methods & Computational Tools

Spatial Conservation Prioritization Quantitative Methods And Computational Tools

Dr. Alan Hastings, Dr. Louis Gross



Spatial Conservation Prioritization Quantitative Methods And Computational Tools:

Spatial Conservation Prioritization Atte Moilanen, Kerrie A. Wilson, Hugh Possingham, 2009-05-28 In a coherent and comprehensive set of chapters a team of leading scientists describe the present state of the art in spatial conservation planning methodology with a focus on operational definitions and methods supported by the latest technological details and applications of publicly available software

Spatial Conservation Prioritization Atte Moilanen, Kerrie A. Wilson, Hugh Philip Possingham, In a coherent comprehensive set of chapters a team of leading scientists describe the present state of the art in spatial conservation planning methodology with a focus on operational definitions methods supported by the latest technological details applications of publicly available software

River Conservation and Management Philip Boon, Paul Raven, 2012-04-02 This book is intended for those with an academic scientific and practical interest in river conservation and management It provides an overview of how changes in legislation policies institutional responsibilities science technology practical techniques and public perception have influenced how rivers have been managed over the past 20 years and the challenges that lie ahead during the next 20 years The book is based on the international conference River Conservation and Management 20 Years On held at York Thirty one chapters with contributions from North and South America Europe Asia and Australasia provide a wide ranging perspective on this complex but profoundly important subject Following an introduction that chronicles the most important contextual changes the book is organized into four broad topics Catchment management ecosystem integrity and the threats to river ecosystems this covers progress on understanding and addressing the pressures affecting rivers many of which will be amplified by climate change and increasing human demands for water Methods and approaches illustrating some recent techniques that have been developed to assess condition and conservation status across different types of river Recovery and rehabilitation providing an insight into the principles practice public involvement and institutional networks that support and make improvements to modified river reaches Integrating nature conservation into wider river management demonstrating the importance of integrated planning involvement of local communities and the use of adaptive management in achieving multiple environmental and economic benefits along rivers used for different purposes The final chapter discusses the challenges faced in dealing with an uncertain future More than 1200 different references and numerous web site citations provide the reader with an invaluable source of knowledge on the subject area

Environmental Planning for Oceans and Coasts Michelle Eva Portman, 2016-05-09 This book informs environmental planning professionals students and those interested in oceans and coasts from an environmental perspective about what is needed for planning and management of these unique environments It is comprised of twelve chapters organized in three parts Part I highlights the basics tenets of environmental planning for oceans and coasts including important concepts from the general field of planning and coastal and ocean management e g hydrography oceans policy and law geomorphology Environmental problems inherent within oceans and coasts such as sea level rise marine pollution

overdevelopment etc are also addressed especially those at the land sea interface Part II covers those methodological approaches regularly used by planners working to improve environmental quality and conditions of oceans and coasts among them integrated planning and management ecosystem services pollution prevention and marine spatial planning Part III focuses specifically on state of the art tools and technologies employed by planners for marine and coastal protection These include systematic conservation planning for protected areas decision support tools coastal adaptation techniques and various types of communication including visualization narration and tools for stakeholder participation The final chapter in the book reviews the most important concepts covered throughout book and emphasizes the important role that environmental planners have to play in the protection and well being of oceans and coasts Michael K Orbach of the Nicholas School of the Environment at Duke University penned the book s foreword

Central American Biodiversity Falk Huettmann, 2015-08-04 This book highlights key results and lessons learnt from two field sites La Suerte in Costa Rica and Ometepe Nicaragua It provides long term data on species abundance and distribution Primates receive specific attention in this book as they are flagship species and good indicators for the health of an ecosystem but as well a money maker Many primate species are sensitive to habitat alteration and are often hunted out first But they play an important role as seed dispersal agents for the regeneration of the forest The book then compares results from the two field sites with regional trends and explores potential solutions such as REDD This book strongly calls for new approaches in conservation it makes the case for looking beyond the pure species biology and classic conservation angle and to take into account the economic and political realities

Conservation Biogeography Richard J. Ladle, Robert J. Whittaker, 2011-01-11 CONSERVATION BIOGEOGRAPHY The Earth s ecosystems are in the midst of an unprecedented period of change as a result of human action Many habitats have been completely destroyed or divided into tiny fragments others have been transformed through the introduction of new species or the extinction of native plants and animals while anthropogenic climate change now threatens to completely redraw the geographic map of life on this planet The urgent need to understand and prescribe solutions to this complicated and interlinked set of pressing conservation issues has lead to the transformation of the venerable academic discipline of biogeography the study of the geographic distribution of animals and plants The newly emerged sub discipline of conservation biogeography uses the conceptual tools and methods of biogeography to address real world conservation problems and to provide predictions about the fate of key species and ecosystems over the next century This book provides the first comprehensive review of the field in a series of closely interlinked chapters addressing the central issues within this exciting and important subject

Biodiversity and Protected Areas Karen Beazley, Robert Baldwin, 2019-04-16 Biodiversity and Protected Areas assembles twelve topics from around the world illustrating the complexities and promise of addressing the biodiversity crisis Authors from Mongolia Africa India Canada Iraq and the United States dwell on particular aspects and challenges relevant to those regions Lessons and approaches from interesting localities coupled with global

analyses give the reader a synthetic view of emerging problems The opportunities for understanding common issues across different geographies abound such as comparing local conservation in sub Saharan Africa with a distribution of very small protected areas in Massachusetts Several topics will be of immediate interest to policymakers The book is illustrated with numerous color maps and figures and the authors strove for clear uncomplicated writing The editors provide an overview of chapters placing them in the context of other biodiversity and protected area literature Students and conservationists attempting to broaden their views of biodiversity and protected areas should find this collection to be interesting

Problematic Wildlife II Francesco Maria Angelici, Lorenzo Rossi, 2020-05-07 In a world where habitats are constantly changing and the impact of anthropization on the environment is increasingly intense interactions between human and wildlife are becoming more and more complex Some species pose problems for human activities while many others need to be helped in order to continue to exist This book follows the first volume called Problematic Wildlife edited by F M Angelici and published by Springer in 2016 which has had considerable success with readers and critics The volume includes 21 chapters divided into 7 parts devoted specific topics which are approached in a multidisciplinary way There are both review chapters and specific cases always bearing in mind the interest for an international audience The book is useful both for scientists wildlife specialists conservationists zoologists ecologists university students nature managers and for those who live in contact with wildlife and its problems such as farmers shepherds hunters urban planners and staff of parks and nature reserves Its ultimate goal is to offer scientific and pragmatic approaches to manage each categories of problematic species

Encyclopedia of Theoretical Ecology Dr. Alan Hastings, Dr. Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences

Australian Island Arks Dorian Moro, Derek Ball, Sally Bryant, 2018-02 Australia is the custodian of a diverse range of continental and oceanic islands From Heard and Macquarie in the sub Antarctic to temperate Lord Howe and Norfolk to the tropical Cocos Keeling Islands and the islands of the Great Barrier Reef Australia s islands contain some of the nation s most iconic fauna flora and ecosystems They are a refuge for over 35% of Australia s threatened species and for many others declining on mainland Australia They also have significant cultural value especially for Indigenous communities and economic value as centres for tourism Australian Island Arks presents a compelling case for restoring and managing

islands to conserve our natural heritage With contributions from island practitioners researchers and policy makers it reviews current island management practices and discusses the need and options for future conservation work Chapters focus on the management of invasive species threatened species recovery conservation planning Indigenous cultural values and partnerships tourism enterprises visitor management and policy and legislature Case studies show how island restoration and conservation approaches are working in Australia and what the emerging themes are for the future Australian Island Arks will help island communities managers visitors and decision makers to understand the current status of Australia s islands their management challenges and the opportunities that exist to make best use of these iconic landscapes

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