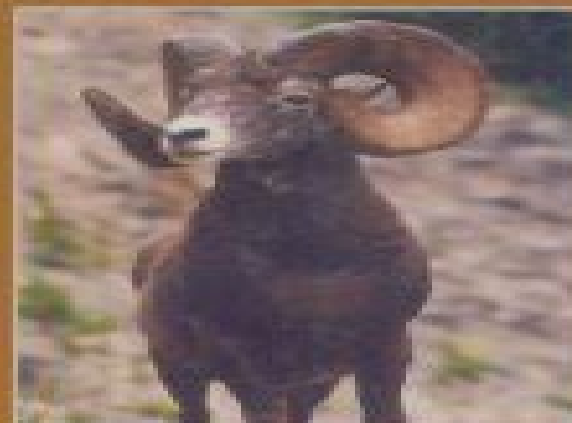


PREDICTING SPECIES OCCURRENCES

*Issues of Accuracy
and Scale*



Edited by
J. Michael Scott,
Patricia J. Heglund,
Michael L. Morrison et al.

Predicting Species Occurrences Issues Of Accuracy And Scale

**Sue Ellen Haupt, Antonello
Pasini, Caren Marzban**



Predicting Species Occurrences Issues Of Accuracy And Scale:

Predicting Species Occurrences J. Michael Scott, Patricia Heglund, Michael L. Morrison, 2002-02 Predictions about where different species are where they are not and how they move across a landscape or respond to human activities if timber is harvested for instance or stream flow altered are important aspects of the work of wildlife biologists land managers and the agencies and policymakers that govern natural resources Despite the increased use and importance of model predictions these predictions are seldom tested and have unknown levels of accuracy *Predicting Species Occurrences* addresses those concerns highlighting for managers and researchers the strengths and weaknesses of current approaches as well as the magnitude of the research required to improve or test predictions of currently used models The book is an outgrowth of an international symposium held in October 1999 that brought together scientists and researchers at the forefront of efforts to process information about species at different spatial and temporal scales It is a comprehensive reference that offers an exhaustive treatment of the subject with 65 chapters by leading experts from around the world that review the history of the theory and practice of modeling and present a standard terminology examine temporal and spatial scales in terms of their influence on patterns and processes of species distribution offer detailed discussions of state of the art modeling tools and descriptions of methods for assessing model accuracy discuss how to predict species presence and abundance present examples of how spatially explicit data on demographics can provide important information for managers An introductory chapter by Michael A Huston examines the ecological context in which predictions of species occurrences are made and a concluding chapter by John A Wiens offers an insightful review and synthesis of the topics examined along with guidance for future directions and cautions regarding misuse of models Other contributors include Michael P Austin Barry R Noon Alan H Fielding Michael Goodchild Brian A Maurer John T Rotenberry Paul Angermeier Pierre R Vernier and more than a hundred others *Predicting Species Occurrences* offers important new information about many of the topics raised in the seminal volume *Wildlife 2000* University of Wisconsin Press 1986 and will be the standard reference on this subject for years to come Its state of the art assessment will play a key role in guiding the continued development and application of tools for making accurate predictions and is an indispensable volume for anyone engaged in species management or conservation

Mapping Species Distributions Janet Franklin, Jennifer Anne Miller, 2009 A comprehensive summary of species distribution modeling methods integrating ecological and statistical models with spatial data and a framework for implementation

Models for Planning Wildlife Conservation in Large Landscapes Joshua Millspaugh, Frank R. Thompson, 2011-04-28 A single resource volume of information on the most current and effective techniques of wildlife modeling *Models for Planning Wildlife Conservation in Large Landscapes* is appropriate for students and researchers alike The unique blend of conceptual methodological and application chapters discusses research applications and concepts of modeling and presents new ideas and strategies for wildlife habitat models used in conservation planning The book makes

important contributions to wildlife conservation of animals in several ways 1 it highlights historical and contemporary advancements in the development of wildlife habitat models and their implementation in conservation planning 2 it provides practical advice for the ecologist conducting such studies and 3 it supplies directions for future research including new strategies for successful studies Intended to provide a recipe for successful development of wildlife habitat models and their implementation in conservation planning the book could be used in studying wildlife habitat models conservation planning and management techniques Additionally it may be a supplemental text in courses dealing with quantitative assessment of wildlife populations Additionally the length of the book would be ideal for graduate student seminar course Using wildlife habitat models in conservation planning is of considerable interest to wildlife biologists With ever tightening budgets for wildlife research and planning activities there is a growing need to use computer methods Use of simulation models represents the single best alternative However it is imperative that these techniques be described in a single source Moreover biologists should be made aware of alternative modeling techniques It is also important that practical guidance be provided to biologists along with a demonstration of utility of these procedures Currently there is little guidance in the wildlife or natural resource planning literature on how best to incorporate wildlife planning activities particularly community based approaches Now is the perfect time for a synesthetic publication that clearly outlines the concepts and available methods and illustrates them Only single resource book of information not only on various wildlife modeling techniques but also with practical guidance on the demonstrated utility of each based on real world conditions Provides concepts methods and applications for wildlife ecologists and others within a GIS context Written by a team of subject area experts

Transforming Parks and Protected Areas Kevin S. Hanna, Douglas A. Clark, D. Scott Slocumbe, 2007-10-18 A rare collection of articles that fuses academic theory critique of practice and practical knowledge Transforming Parks and Protected Areas analyzes and critiques the emerging issues in the design and operation of parks and protected areas

Wildlife-Habitat Relationships Michael L. Morrison, Bruce Marcot, William Mannan, 2012-09-26 Wildlife Habitat Relationships goes beyond introductory wildlife biology texts to provide wildlife professionals and students with an understanding of the importance of habitat relationships in studying and managing wildlife The book offers a unique synthesis and critical evaluation of data methods and studies along with specific guidance on how to conduct rigorous studies Now in its third edition Wildlife Habitat Relationships combines basic field zoology and natural history evolutionary biology ecological theory and quantitative tools in explaining ecological processes and their influence on wildlife and habitats Also included is a glossary of terms that every wildlife professional should know *Ecology, Conservation, and Management of Grouse* Brett K. Sandercock, Katherine Martin, Gernot Segelbacher, 2011-10-04 Summarizing current knowledge of grouse biology this volume is organized in four sections spatial ecology habitat relationships population biology and conservation and management and offers insights into spatial requirements movements and demography of grouse Much of the research

employs emerging tools in ecology that span biogeochemistry molecular genetics endocrinology radio telemetry and remote sensing Adapted from publisher description on back cover

Landscape Ecology Dean L Urban, 2024-12-01 This is methods tools textbook that covers the fundamental tasks in research and management at the landscape scale It brings together tools from a range of disciplines and presents them in a natural workflow that a practitioner can appreciate Alternative texts cover a narrower range of topics and or present the information without reference to a natural workflow The book begins with 2 fundamental applications that introduce the scope and challenges of working at the landscape scales sampling design and species distribution modeling These motivate several chapters that digress to cover the primary tools that ecologists use to work with multivariate and spatial data The book then returns to applications including site prioritization interpreting and forecasting landscape change and integrated assessment The tasks themselves follow a logical workflow of collecting and analyzing data applying the analyses to management decisions and interpreting the outcomes of these decisions in an integrated framework This book stems from two graduate level courses in Landscape Ecology taught at the Nicholas School of the Environment at Duke University The subject has evolved over time from a concepts based overview of what landscape ecology is to a more applied practicum on how one does landscape ecology As landscape ecology has matured as a discipline its perspectives on spatial heterogeneity and scale have begun to permeate into a wide range of other fields including conservation biology ecosystem management and ecological restoration Thus this textbook will bring students from diverse backgrounds to a common level of understanding and will prepare them with the practical knowledge for a career in conservation and ecosystem management

Applications for Advancing Animal Ecology Michael L. Morrison, Leonard A. Brennan, Bruce G. Marcot, William M. Block, Kevin S. McKelvey, 2021-05-11 Practical guidance for wildlife professionals working to improve study design data analysis and the application of results to habitat and population management Winner of the Wildlife Society Publications Book Award by The Wildlife Society Despite major advances in sampling techniques and analytical methods many animal ecologists conduct research that is primarily relevant to a specific time and place They also tend to focus more on the statistical analyses and nuances of modeling than actual study design Arguing that studies of animal ecology should always begin with a focus on the behaviors and characteristics of individual organisms including how they form into distinct biological populations *Applications for Advancing Animal Ecology* takes a fresh and critical look at the field Building from its companion volume *Foundations for Advancing Animal Ecology* this practical book presents readers with the principal methods used to observe animal behavior Teaching them to assess resource abundance categories of species environmental relationships models it also explores major aspects of measuring animal habitat what to measure and how to measure it common sampling and estimation methods to assess population parameters when to measure and how to analyze data problems that will confront ecologists in the coming years and how to gather information to adequately address them and how the experimental approach can be used to advance the science of

animal ecology Throughout the book the authors stress the importance of speaking a common and well defined language Avoiding vague and misleading terminology they assert will help ecologists translate science into meaningful and lasting actions in the environment Taking the perspective of the organism of interest in developing concepts and applications the authors always keep the potentially biased human perspective in focus They also provide a selection of suggested research projects cautions and caveats A major advancement in understanding the factors underlying wildlife habitat relationships Applications for Advancing Animal Ecology will be an invaluable resource to natural resource management professionals and practitioners including state and federal agencies non governmental organizations and environmental consultants The SAGE Handbook of Biogeography Andrew Millington, Mark Blumler, Udo Schickhoff, 2011-09-22 A superb resource for understanding the diversity of the modern discipline of biogeography and its history and future especially within geography departments I expect to refer to it often Professor Sally Horn University of Tennessee As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use Biogeography is interdisciplinary and a commonly voiced concern is that one biogeographer may not readily understand another's research findings A handbook like this is important for synthesising situating explaining and evaluating a large literature and pointing the reader to informative publications Geographical Research A valuable contribution in both a research and teaching context If you are biologically trained it provides an extensive look into the geographical tradition of biogeography covering some topics that may be less familiar to those with an evolution ecology background Alternatively if you are a geography student researcher or lecturer it will provide a useful reference and will be invaluable to the non biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them Adam C Algar Frontiers of Biogeography The SAGE Handbook of Biogeography is a manual for scoping the past present and future of biogeography that enable readers to consider where relevant how similar biogeographical issues are tackled by researchers in different schools In line with the concept of all SAGE Handbooks this is a retrospective and prospective overview of biogeography that will Consider the main areas of biogeography researched by geographers Detail a global perspective by incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences Aimed at an international audience of research students academics researchers and practitioners in biogeography the text will attract interest from environmental scientists ecologists biologists and geographers alike **Improving GIS-based Wildlife-Habitat Analysis** Jeffrey K. Keller, Charles R. Smith, 2014-10-01 Geographic Information Systems GIS provide a powerful tool for the investigation of species habitat relationships and the development of wildlife management and conservation programs However the relative ease of data manipulation and analysis using GIS associated landscape metrics packages and sophisticated statistical tests may sometimes cause investigators to

overlook important species habitat functional relationships. Additionally, underlying assumptions of the study design or technology may have unrecognized consequences. This volume examines how initial researcher choices of image resolution, scale, analysis response, and explanatory variables, and location and area of samples can influence analysis results, interpretation, predictive capability, and study-derived management prescriptions. Overall, most studies in this realm employ relatively low-resolution imagery that allows neither identification nor accurate classification of habitat components. Additionally, the landscape metrics typically employed do not adequately quantify component spatial arrangement associated with species occupation. To address this latter issue, the authors introduce two novel landscape metrics that measure the functional size and location in the landscape of taxon-specific solid and edge habitat types. Keller and Smith conclude that investigators conducting GIS-based analyses of species habitat relationships should more carefully: 1) match the resolution of remotely sensed imagery to the scale of habitat functional relationships of the focal taxon; 2) identify attributes/explanatory variables of habitat architecture, size, configuration, quality, and context that reflect the way the focal taxon uses the subset of the landscape it occupies; and 3) match the location and scale of habitat samples, whether GIS or ground-based, to corresponding species detection locations and scales of habitat use.

Urban Remote Sensing Xiaojun Yang, 2011-03-23
Urban Remote Sensing is designed for upper-level undergraduates, graduates, researchers, and practitioners and has a clear focus on the development of remote sensing technology for monitoring, synthesis, and modeling in the urban environment. It covers four major areas: the use of high-resolution satellite imagery or alternative sources of image data such as high-resolution SAR and LIDAR for urban feature extraction; the development of improved image processing algorithms and techniques for deriving accurate and consistent information on urban attributes from remote sensor data; the development of analytical techniques and methods for deriving indicators of socioeconomic and environmental conditions that prevail within urban landscape; and the development of remote sensing and spatial analytical techniques for urban growth simulation and predictive modeling.

Foundations for Advancing Animal Ecology Michael L. Morrison, Leonard A. Brennan, Bruce G. Marcot, William M. Block, Kevin S. McKelvey, 2020-10-13
A look at how wildlife professionals can modernize their approaches to habitat and population management with a fresh take on animal ecology. How can we maximize the probability that a species of wild animal will persist into the future? This audacious book proposes that advancing animal ecology and conservation itself demands that we reenvision our basic understanding of how animals interact with their environments and with each other. Synthesizing where we are and where we need to go with our studies of animals and their environs, *Foundations for Advancing Animal Ecology* asserts that studies of animal ecology should begin with a focus on the behaviors and characteristics of individual organisms. The book examines the limitations of classic approaches to the study of animal ecology: how organisms organize into collections such as breeding pairs, flocks, and herds; how the broader biotic and abiotic environment shapes animal populations, communities, and ecosystems; factors underlying the distribution and abundance of

species through space and time the links between habitat and population why communication between researchers and managers is key specific strategies for managing wild animal populations and habitats in an evolutionary and ecosystem context Throughout the authors stress the importance of speaking a common and well defined language Avoiding vague and misleading terminology they argue will help ecologists translate science into meaningful and lasting actions in the environment Taking the perspective of the organism of interest in developing concepts and applications the authors always keep the potentially biased human perspective in focus A major advancement in understanding the factors underlying wildlife habitat relationships Foundations for Advancing Animal Ecology will be an invaluable resource to professionals and practitioners in natural resource management in public and private sectors including state and federal agencies non governmental organizations and environmental consultants *Reintroduction Biology* John G. Ewen,Doug P.

Armstrong,Kevin A. Parker,Philip J. Seddon,2012-01-30 This book aims to further advance the field of reintroduction biology beyond the considerable progress made since the formation of the IUCN SSC Re introduction Specialist Group Using an issue based framework that purposely avoids a structure based on case studies the book s central theme is advocating a strategic approach to reintroduction where all actions are guided by explicit theoretical frameworks based on clearly defined objectives Issues covered include husbandry and intensive management monitoring and genetic and health management Although taxonomically neutral there is a recognised dominance of bird and mammal studies that reflects the published research in this field The structure and content are designed for use by people wanting to bridge the research management gap such as conservation managers wanting to expand their thinking about reintroduction related decisions or researchers who seek to make useful applied contributions to reintroduction *Habitat Suitability and Distribution Models* Antoine

Guisan,Wilfried Thuiller,Niklaus E. Zimmermann,2017-09-14 This book introduces the key stages of niche based habitat suitability model building evaluation and prediction required for understanding and predicting future patterns of species and biodiversity Beginning with the main theory behind ecological niches and species distributions the book proceeds through all major steps of model building from conceptualization and model training to model evaluation and spatio temporal predictions Extensive examples using R support graduate students and researchers in quantifying ecological niches and predicting species distributions with their own data and help to address key environmental and conservation problems Reflecting this highly active field of research the book incorporates the latest developments from informatics and statistics as well as using data from remote sources such as satellite imagery A website at www.unil.ch/hsdm contains the codes and supporting material required to run the examples and teach courses **Landscape Genetics** Niko Balkenhol,Samuel Cushman,Andrew

Storfer,Lisette Waits,2015-11-09 LANDSCAPE GENETICS CONCEPTS METHODS APPLICATIONS LANDSCAPE GENETICS CONCEPTS METHODS APPLICATIONS Edited by Niko Balkenhol Samuel A Cushman Andrew T Storfer Lisette P Waits Landscape genetics is an exciting and rapidly growing field melding methods and theory from landscape ecology and

population genetics to address some of the most challenging and urgent ecological and evolutionary topics of our time. Landscape genetic approaches now enable researchers to study in detail how environmental complexity in space and time affect gene flow, genetic drift and local adaptation. However, learning about the concepts and methods underlying the field remains challenging due to the highly interdisciplinary nature of the field which relies on topics that have traditionally been treated separately in classes and textbooks. In this edited volume, some of the leading experts in landscape genetics provide the first comprehensive introduction to underlying concepts, commonly used methods and current and future applications of landscape genetics. Consistent with the interdisciplinary nature of the field, the book includes textbook-like chapters that synthesize fundamental concepts and methods underlying landscape genetics. Part 1: chapters on advanced topics that deserve a more in-depth treatment. Part 2: chapters illustrating the use of concepts and methods in empirical applications. Part 3: Aimed at beginning landscape geneticists and experienced researchers alike, this book will be helpful for all scientists and practitioners interested in learning, teaching and applying landscape genetics.

GIS and Archaeological Site Location Modeling Mark W. Mehrer, Konnie L. Wescott, 2005-12-21 Although archaeologists are using GIS technology at an accelerating rate, publication of their work has not kept pace. A state-of-the-art exploration of the subject, *GIS and Archaeological Site Location Modeling* pulls together discussions of theory and methodology, scale, data, quantitative methods and cultural resource management and uses local

Resource Ecology Herbert H.T. Prins, Frank van Langevelde, 2008-01-21 This multi-author book deals with resource ecology, which is the ecology of trophic interactions between consumers and their resources. All the chapters were subjected to intense group discussions; comments and critiques were subsequently used for writing new versions which were peer-reviewed. Each chapter is followed by a comment. This makes the book ideal for teaching and course work because it highlights the fact that ecology is a living and active research field.

Artificial Intelligence Methods in the Environmental Sciences Sue Ellen Haupt, Antonello Pasini, Caren Marzban, 2008-11-28 How can environmental scientists and engineers use the increasing amount of available data to enhance our understanding of planet Earth, its systems and processes? This book describes various potential approaches based on artificial intelligence (AI) techniques, including neural networks, decision trees, genetic algorithms and fuzzy logic. Part I contains a series of tutorials describing the methods and the important considerations in applying them. In Part II, many practical examples illustrate the power of these techniques on actual environmental problems. International experts bring to life ways to apply AI to problems in the environmental sciences. While one culture entwines ideas with a thread, another links them with a red line. Thus, a red thread ties the book together, weaving a tapestry that pictures the natural data-driven AI methods in the light of the more traditional modeling techniques and demonstrating the power of these data-based methods.

Birds and Habitat Robert J. Fuller, 2012-11-08 Synthesises important concepts, patterns and issues relating to avian habitat selection, drawing on examples from Europe, North America and Australia.

Temporal Dimensions of Landscape Ecology John A. Bissonette, Ilse

Storch, 2007-08-08 Over the past twenty five years the effects of the spatial distribution and scaling of resources on animal populations have been increasingly studied in wildlife biology landscape ecology conservation biology and related fields However spatial patterns change over time In Temporal Dimensions of Landscape Ecology Wildlife Responses to Variable Resources the authors discuss the effects that temporal changes in resources have on animal populations Resource availability and quality are not distributed homogeneously over time depending for example on predictable changes in seasons mating and birthing cycles unpredictable resource pulses and weather related phenomena ecological disturbances and historical legacies Temporal Dimensions of Landscape Ecology brings together chapters that address the idea of current as well as historical temporal influences on resource availability quality and distribution The authors draw attention to the neglected temporal issues so important to understanding species and community responses This book will be of interest to both wildlife and conservation students and practitioners working with temporal and spatial scale issues

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