

# Reptile Biodiversity Standard Methods For Inventory And Monitoring

Monitoring Threatened Species and Ecological Communities  
Reptile Ecology and Conservation  
The GEO Handbook on Biodiversity Observation Networks  
Nepal Biodiversity Resource Book  
Remote Sensing for Ecology and Conservation  
Clinical Anatomy and Physiology of Exotic Species  
Reptile Biodiversity  
Measuring and Monitoring Biological Diversity  
Ecological Census Techniques  
Wildlife 2001: Populations  
Reptile Habitat Management Handbook  
Emerald Labyrinth  
Urban Wildlife Management, Second Edition  
Amphibians and Reptiles of La Selva, Costa Rica, and the Caribbean Slope  
Herpetology  
Bird Census Techniques  
Amphibian Declines  
Reptile Biodiversity  
Biodiversity  
Handbook of Biodiversity Methods  
DNA Barcodes  
Secrets of Snakes  
Measuring Biological Diversity  
Knowing our lands and resources  
A Primer on Reptiles and Amphibians  
A Framework to Guide Selection of Chemical Alternatives  
Turtles of the Southeast  
Collecting and Preserving Genetic Material for Herpetological Research  
Measuring and monitoring biological diversity  
Amphibian Monitoring in Latin America  
Amphibian Ecology and Conservation  
A Review of Marking and Individual Recognition Techniques for Amphibians and Reptiles  
The Eponym Dictionary of Reptiles  
Handbook of Larval Amphibians of the United States and Canada  
Biodiversity: Finance and the Economic and Business Case for Action  
Encyclopedia of Biological Invasions  
New Zealand Lizards  
Reptile Ecology and

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Conservation Exploring Biological Diversity, Environment, and Local People's Perspectives in Forest Landscapes: Methods for a Multidisciplinary Landscape Assessment  
Monitoring Animal Populations and Their Habitats

### **Monitoring Threatened Species and Ecological Communities**

This practical manual of amphibian ecology and conservation brings together a distinguished, international group of amphibian researchers to provide a state-of-the-art review of the many new and exciting techniques used to study amphibians and to track their conservation status and population trends. The integration of ecology and conservation is a natural outcome of the types of questions posed by these disciplines: how amphibians can and should be sampled, marked, and followed through time; how abundance and population trends are measured; what are the robust statistical methods that can be used in ecology and conservation; what roles do amphibians play in community structure and function; how do animals function in their environment; and what affects the long-term persistence of species assemblages? Although emphasizing field ecology, sections on physiological ecology, genetics, landscape ecology, and disease analysis are also included. The book describes the latest statistical approaches in amphibian field ecology and conservation, as well as the use of models in interpreting field research. Much of this information is scattered in the scientific literature or not

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readily available, and the intention is to provide an affordable, comprehensive synthesis for use by graduate students, researchers, and practising conservationists worldwide.

### **Reptile Ecology and Conservation**

This is an updated version of the best selling first edition, Ecological Census Techniques, with updating, some new chapters and authors. Almost all ecological and conservation work involves carrying out a census or survey. This practically focussed book describes how to plan a census, the practical details and shows with worked examples how to analyse the results. The first three chapters describe planning, sampling and the basic theory necessary for carrying out a census. In the subsequent chapters international experts describe the appropriate methods for counting plants, insects, fish, amphibians, reptiles, mammals and birds. As many censuses also relate the results to environmental variability, there is a chapter explaining the main methods. Finally, there is a list of the most common mistakes encountered when carrying out a census.

### **The GEO Handbook on Biodiversity Observation Networks**

Biodiversity observation systems are almost everywhere inadequate to meet local,

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national and international (treaty) obligations. As a result of alarmingly rapid declines in biodiversity in the modern era, there is a strong, worldwide desire to upgrade our monitoring systems, but little clarity on what is actually needed and how it can be assembled from the elements which are already present. This book intends to provide practical guidance to broadly-defined biodiversity observation networks at all scales, but predominantly the national scale and higher. This is a practical how-to book with substantial policy relevance. It will mostly be used by technical specialists with a responsibility for biodiversity monitoring to establish and refine their systems. It is written at a technical level, but one that is not discipline-bound: it should be intelligible to anyone in the broad field with a tertiary education.

### **Nepal Biodiversity Resource Book**

Biodiversity is the extraordinary variety of life on Earth -- from genes & species to ecosystems & the valuable functions they perform. Life as we know it will not be the same if our rich biodiversity heritage is dramatically altered. And the signs indicate that this is precisely what is happening. Biodiversity is threatened, & not because of catastrophic events. The current threat to biodiversity, & thus to the tapestry of life, stems primarily from expanding human populations & increased human consumption of natural resources. Fortunately, we can take steps to protect our rich biodiversity. This report explains what biodiversity is, why it is so

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important, why it is threatened, & what can be done to conserve this valuable resource. Illustrations.

### **Remote Sensing for Ecology and Conservation**

### **Clinical Anatomy and Physiology of Exotic Species**

Documents in comprehensive detail a major environmental crisis: rapidly declining amphibian populations and the disturbing developmental problems that are increasingly prevalent within many amphibian species.

### **Reptile Biodiversity**

This practical handbook of reptile field ecology and conservation brings together a distinguished, international group of reptile researchers to provide a state-of-the-art review of the many new and exciting techniques used to study reptiles. The authors describe ecological sampling techniques and how they are implemented to monitor the conservation status and population trends of snakes, lizards, tuatara, turtles, and crocodylians throughout the world. Emphasis is placed on the extent of statistical inference and the biases associated with different techniques and

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analyses. The chapters focus on the application of field research and data analysis for achieving an understanding of reptile life history, population dynamics, movement patterns, thermal ecology, conservation status, and the relationship between reptiles and their environment. The book emphasises the need for thorough planning, and demonstrates how a multi-dimensional approach incorporates information related to morphology, genetics, molecular biology, epidemiology, statistical modelling, animal welfare, and biosecurity. Although accentuating field sampling, sections on experimental applications in laboratories and zoos, thermal ecology, genetics, landscape ecology, disease and biosecurity, and management options are included. Much of this information is scattered in the scientific literature or not readily available, and the intention is to provide an affordable, comprehensive synthesis for use by graduate students, researchers, and practising conservationists worldwide.

### **Measuring and Monitoring Biological Diversity**

Easy to use and filled with addictive—and highly useful—information about the people whose names will be carried into the future on the backs of the world's reptiles, *The Eponym Dictionary of Reptiles* is a handy and fun book for professional and amateur herpetologists alike.

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### **Ecological Census Techniques**

From tiny, burrowing lizards to rainforest canopy-dwellers and giant crocodiles, reptile populations everywhere are changing. Yet government and conservation groups are often forced to make important decisions about reptile conservation and management based on inadequate or incomplete data. With contributions from nearly seventy specialists, this volume offers a comprehensive guide to the best methods for carrying out standardized quantitative and qualitative surveys of reptiles, while maximizing comparability of data between sites, across habitats and taxa, and over time. The contributors discuss each method, provide detailed protocols for its implementation, and suggest ways to analyze the data, making this volume an essential resource for monitoring and inventorying reptile abundance, population status, and biodiversity. Reptile Biodiversity covers topics including:

- terrestrial, marine, and aquatic reptiles
- equipment recommendations and limitations
- ethics of monitoring and inventory activities
- statistical procedures
- designing sampling programs
- using PDAs in the field

### **Wildlife 2001: Populations**

Measuring and Monitoring Biological Diversity is the first book to provide comprehensive coverage of standard methods for biodiversity sampling of

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amphibians, with information on analyzing and using data that will interest biologists in general. In this manual, nearly fifty herpetologists recommend ten standard sampling procedures for measuring and monitoring amphibian and many other populations. The contributors discuss each procedure, along with the circumstances for its appropriate use. In addition, they provide a detailed protocol for each procedure's implementation, a list of necessary equipment and personnel, and suggestions for analyzing the data. The data obtained using these standard methods are comparable across sites and through time and, as a result, are extremely useful for making decisions about habitat protection, sustained use, and restoration—decisions that are particularly relevant for threatened amphibian populations.

### **Reptile Habitat Management Handbook**

Generously illustrated, this essential handbook for herpetologists, ecologists, and naturalists features comprehensive keys to eggs, embryos, salamander larvae, and tadpoles; species accounts; a glossary of terms; and an extensive bibliography. The taxonomic accounts include a summarization of the morphology and basic natural history, as well as an introduction to published information for each species. Tadpole mouthparts exhibit major characteristics used in identifications, and the book includes illustrations for a number of species. Color photographs of larvae of many species are also presented. Handbook of Larval Amphibians of the

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United States and Canada, written by the foremost experts on larval amphibians, is the first guide of its kind and will transform the fieldwork of scientists and fish and wildlife professionals.

### **Emerald Labyrinth**

Seventy-five percent of the turtle species in the United States can be found in the Southeast. In fact, the region is second only to parts of Asia in its number of native turtles. Filled with more than two hundred color photographs and written with a special focus on conservation, this guide covers forty-five species of this nonthreatening, ancient lineage of long-lived reptiles. Heavily illustrated, fact-filled descriptions of each species and its habitat comprise the heart of the book. Species accounts cover such information as descriptions of adults and hatchlings; key identifiers including size, distinctive characters and markings; land, river, pond, and wetland habitats; behaviors and activities; food and diet; reproduction; predators and defense; and conservation issues. Also included is a wealth of general information about the importance of turtle conservation and the biology, diversity, and life history of turtles. Discussed are distinguishing turtle characteristics; differences among turtles, tortoises, and terrapins; shell structure and architecture; reproduction and longevity; turtle predators and defense mechanisms; and turtle activities such as basking, hibernation, aestivation, and seasonal movement. Useful information about the interactions of humans and

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turtles is also covered: species that are likely to be commonly encountered, turtles as pets, and more. Clearly written, cleanly designed, and fun to use, the guide will promote a better understanding of the habitat needs of, and environmental challenges to, this fascinating group of animals. Features: In-depth descriptions of the forty-two native species Conservation-oriented approach More than two hundred color photographs Nearly forty distribution maps Clear descriptions of each species, including differences in the appearance of young and mature turtles “Did You Know?” sidebars of interesting turtle facts Size charts; key identifiers; and information about habitat, behavior and activity, food and feeding, reproduction, predators and defense, and conservation

### **Urban Wildlife Management, Second Edition**

### **Amphibians and Reptiles of La Selva, Costa Rica, and the Caribbean Slope**

"Authoritative and comprehensive--provides an up-to-date description of the tool box of methods for inventorying and monitoring the diverse spectrum of reptiles. All biodiversity scientists will want to have it during project planning and as study progresses. A must for field biologists, conservation planners, and biodiversity

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managers."--Jay M. Savage, San Diego State University "Kudos to the editors and contributors to this book. From the perspective of a non-ecologist such as myself, who only occasionally needs to intensively sample a particular site or habitat, the quality and clarity of this book has been well worth the wait."--Jack W. Sites, Jr.

### **Herpetology**

Snakes inspire extreme reactions. Love or hate these limbless reptiles, almost everyone is fascinated by them. Although snakes are widespread and frequently encountered, they may be more misunderstood than any other group of animals. From giant rattlesnakes to mating dances, there are dozens of myths and misconceptions about snakes. In *Secrets of Snakes: The Science beyond the Myths*, wildlife biologist David Steen tackles the most frequently asked questions and clears up prevailing myths. In a conversational style with a bit of humor, Steen presents the relevant biology and natural history of snakes, making the latest scientific research accessible to a general audience. When addressing myths about snakes, he explains how researchers use the scientific method to explain which parts of the myth are biologically plausible and which are not. Steen also takes a close look at conventional wisdom and common advice about snakes. For example, people are told they can distinguish coralsnakes from non-venomous mimics by remembering the rhyme, "red on black, friend of Jack, red on yellow, kill a fellow," but this tip is only relevant to coralsnakes and two mimics living in the

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southeastern United States, and it does not always work with other species or in other countries. Enhanced by more than 100 stunning color photographs and three original drawings, *Secrets of Snakes: The Science beyond the Myths* encourages readers to learn about the snakes around them and introduces them to how scientists use the scientific method and critical thinking to learn about the natural world. Number Sixty-one: W. L. Moody Jr. Natural History Series

### **Bird Census Techniques**

Operational overview. Villages and communities. Field sample selection. Village-based activities. First community meeting. Community landscape mapping. Selecting local informants. Community-based data collections. Field-based activities. Site, vegetation and trees. Plants and site - ethnoecological data. Soil assessment. Data control and management. Plant taxonomy and verification. Database. Conclusions.

### **Amphibian Declines**

This report sets the economic and business case for urgent and ambitious action on biodiversity. It presents a preliminary assessment of current biodiversity-related finance flows, and discusses the key data and indicator gaps that need to be

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addressed to underpin effective monitoring of both the pressures on biodiversity and the actions (i.e. responses) being implemented. The report concludes with ten priority areas where G7 and other countries can prioritise their efforts.

### **Reptile Biodiversity**

#### **Biodiversity**

Emerald Labyrinth is a scientist and adventurer's chronicle of years exploring the rainforests of sub-Saharan Africa. The richly varied habitats of the Democratic Republic of the Congo offer a wealth of animal, plant, chemical, and medical discoveries. But the country also has a deeply troubled colonial past and a complicated political present. Author Eli Greenbaum is a leading expert in sub-Saharan herpetology - snakes, lizards, and frogs - who brings a sense of wonder to the question of how science works in the twenty-first century. Along the way he comes face to face with spitting cobras, silverback mountain gorillas, wild elephants, and the teenaged armies of AK-47-toting fighters engaged in the continent's longest-running war. As a bellwether of the climate and biodiversity crises now facing the planet, the Congo holds the key to our planet's future. Writing in the tradition of books like *The Lost City of Z*, Greenbaum seeks out the

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creatures struggling to survive in a war-torn, environmentally threatened country. Emerald Labyrinth is an extraordinary book about the enormous challenges and hard-won satisfactions of doing science in one of the least known, least hospitable places on earth.

### **Handbook of Biodiversity Methods**

Monitoring is integral to all aspects of policy and management for threatened biodiversity. It is fundamental to assessing the conservation status and trends of listed species and ecological communities. Monitoring data can be used to diagnose the causes of decline, to measure management effectiveness and to report on investment. It is also a valuable public engagement tool. Yet in Australia, monitoring threatened biodiversity is not always optimally managed. Monitoring Threatened Species and Ecological Communities aims to improve the standard of monitoring for Australia's threatened biodiversity. It gathers insights from some of the most experienced managers and scientists involved with monitoring programs for threatened species and ecological communities in Australia, and evaluates current monitoring programs, establishing a baseline against which the quality of future monitoring activity can be managed. Case studies provide examples of practical pathways to improve the quality of biodiversity monitoring, and guidelines to improve future programs are proposed. This book will benefit scientists, conservation managers, policy makers and those with an interest in

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threatened species monitoring and management.

### **DNA Barcodes**

### **Secrets of Snakes**

### **Measuring Biological Diversity**

This pioneering encyclopedia illuminates a topic at the forefront of global ecology—biological invasions, or organisms that come to live in the wrong place. Written by leading scientists from around the world, *Encyclopedia of Biological Invasions* addresses all aspects of this subject at a global level—including invasions by animals, plants, fungi, and bacteria—in succinct, alphabetically arranged articles. Scientifically uncompromising, yet clearly written and free of jargon, the volume encompasses fields of study including biology, demography, geography, ecology, evolution, sociology, and natural history. Featuring many cross-references, suggestions for further reading, illustrations, an appendix of the world's worst 100 invasive species, a glossary, and more, this is an essential reference for anyone who needs up-to-date information on this important topic. *Encyclopedia of*

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Biological Invasions features articles on: • Well-known invasive species such the zebra mussel, chestnut blight, cheatgrass, gypsy moth, Nile perch, giant African snail, and Norway rat • Regions with especially large numbers of introduced species including the Great Lakes, Mediterranean Sea, Hawaiian Islands, Australia, and New Zealand. • Conservation, ecological, economic, and human and animal health impacts of invasions around the world • The processes and pathways involved in invasion • Management of introduced species

### **Knowing our lands and resources**

A Primer on Reptiles and Amphibians is an innovative educational resource designed to forge a connection between the reader and the creeping critters of the world. Turtles, frogs, lizards, salamanders, snakes, and crocodiles—these animals evoke fear and fascination. This primer dispels myths and unlocks mysteries surrounding these diverse survivors which have mastered virtually every habitat on Earth. Tragically, these animals now face pressures of unprecedented severity, but there is still time to make a difference if more of us work together. Micha Petty is an international award-winning Master Naturalist and wildlife rehabilitator. This critically-acclaimed debut volume is a collection of Micha's interpretive writings, carefully crafted to make learning easy for everyone. These bulletins display his passion for Conservation Through Education while covering topics such as living harmoniously with wildlife, physiology, natural history, observation, and

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conservation. Flip to any page to be instantly introduced to new facets of reptiles, amphibians, the perils they face, and how you can join the fight to save them.

### **A Primer on Reptiles and Amphibians**

The first in-depth textbook of its kind, this resource deals solely with the comparative anatomy and physiology of exotic species - small mammals, reptiles, and birds. For these commonly encountered species, it highlights clinical considerations for veterinary treatment. The book is heavily illustrated with clear line diagrams, radiographs, and color illustrations, explaining clearly the functioning of exotic species. The first textbook to provide comprehensive coverage of the comparative anatomy and physiology of exotic species. Written specifically to give the veterinary practitioner a better understanding of the functioning of exotic species. Profusely illustrated with clear line diagrams, radiographs, and color plates. With 3 contributors

### **A Framework to Guide Selection of Chemical Alternatives**

Up-to-date information on methods is crucial in this rapidly advancing field. This compendium includes the latest information on generating, applying and analyzing DNA as well as step-by-step detail and troubleshooting tips and advice from

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experts.

### **Turtles of the Southeast**

This edited volume is a timely and comprehensive summary of the New Zealand lizard fauna. Nestled in the south-west Pacific, New Zealand is a large archipelago that displays the faunal signatures of both its Gondwanan origins, and more recent oceanic island influences. New Zealand was one of the last countries on Earth to be discovered, and likewise, the full extent of the faunal diversity present within the archipelago is only just starting to be appreciated. This is no better exemplified than in lizards, where just 30 species (20 skinks, 10 geckos) were recognized in the 1950s, but now 104 are formally or informally recognized (61 skinks, 43 geckos). Thus, New Zealand contains one of the most diverse lizard faunas of any cool, temperate region on Earth. This book brings together the world's leading experts in the field to produce an authoritative overview of the history, taxonomy, biogeography, ecology, life-history, physiology and conservation of New Zealand lizards.

### **Collecting and Preserving Genetic Material for Herpetological Research**

### **Measuring and monitoring biological diversity**

Historically, regulations governing chemical use have often focused on widely used chemicals and acute human health effects of exposure to them, as well as their potential to cause cancer and other adverse health effects. As scientific knowledge has expanded there has been an increased awareness of the mechanisms through which chemicals may exert harmful effects on human health, as well as their effects on other species and ecosystems. Identification of high-priority chemicals and other chemicals of concern has prompted a growing number of state and local governments, as well as major companies, to take steps beyond existing hazardous chemical federal legislation. Interest in approaches and policies that ensure that any new substances substituted for chemicals of concern are assessed as carefully and thoroughly as possible has also burgeoned. The overarching goal of these approaches is to avoid regrettable substitutions, which occur when a toxic chemical is replaced by another chemical that later proved unsuitable because of persistence, bioaccumulation, toxicity, or other concerns. Chemical alternative assessments are tools designed to facilitate consideration of these factors to assist stakeholders in identifying chemicals that may have the greatest likelihood of harm to human and ecological health, and to provide guidance on how the industry may develop and adopt safer alternatives. A Framework to Guide Selection of Chemical Alternatives develops and demonstrates a decision framework for evaluating potentially safer substitute chemicals as primarily determined by

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human health and ecological risks. This new framework is informed by previous efforts by regulatory agencies, academic institutions, and others to develop alternative assessment frameworks that could be operationalized. In addition to hazard assessments, the framework incorporates steps for life-cycle thinking - which considers possible impacts of a chemical at all stages including production, use, and disposal - as well as steps for performance and economic assessments. The report also highlights how modern information sources such as computational modeling can supplement traditional toxicology data in the assessment process. This new framework allows the evaluation of the full range of benefits and shortcomings of substitutes, and examination of tradeoffs between these risks and factors such as product functionality, product efficacy, process safety, and resource use. Through case studies, this report demonstrates how different users in contrasting decision contexts with diverse priorities can apply the framework. This report will be an essential resource to the chemical industry, environmentalists, ecologists, and state and local governments.

### **Amphibian Monitoring in Latin America**

When the first edition of Urban Wildlife Management was published two years ago, it provided conservationists, ecologists, and wildlife professionals with a welcome shift in the way that interactions between humans and wildlife were viewed and managed. Instead of focusing on ways to evict or eradicate wildlife encroached on

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by urban development, this unique work took a holistic, ecosystems approach. Gathering information from more than five hundred academic sources and the popular media, this book educated us on the complete nature of the problem. See what's new in the Second Edition: New information garnered from secondary data sets Added contributions from an extended list of leading wildlife specialists Original research conducted by the authors and their students New chapters on urban soils, urban waters, and zoonotic diseases More perspective essays and case studies Single species profiles in each chapter that focus on management issues Numerous tables examining trends by species and by region Through discussions of past and present approaches in the United States, the book explores the changing landscape of wildlife management and future approaches. Urban habitats and hazards are defined in terms of green and gray spaces. Sociopolitical issues are discussed in terms of wildlife management, stakeholder responsibilities, and legal considerations. And wildlife are viewed as adaptive inhabitants of an evolving ecosystem rather than as interlopers in a humans only world. The author maintains a blog exploring wildlife in our own backyard.

### **Amphibian Ecology and Conservation**

This Handbook, first published in 2005, provides standard procedures for planning and conducting a survey of any species or habitat and for evaluating the data.

## **A Review of Marking and Individual Recognition Techniques for Amphibians and Reptiles**

Wild birds are counted for a wide variety of reasons and by a bewildering array of methods. However, detailed descriptions of the techniques used and the rationale adopted are scattered in the literature, and the newcomer to bird census work or the experienced bird counter in search of a wider view, may well have difficulty in coming to grips with the subject as a whole. While not an end in itself, numerical and distributional census work is a fundamental part of many scientific and conservation studies, and one in which the application of given standards is vital if results are not to be distorted or applied in a misleading way. This book provides a concise guide to the various census techniques and to the opportunities and pitfalls which each entails. The common methods are described in detail, and illustrated through an abundance of diagrams showing examples of actual and theoretical census studies. Anyone with a bird census job to plan should be able to select the method best suited to the study at hand, and to apply it to best effect within the limits inherent in it and the constraints of the particular study. The Royal Society for the Protection of Birds and the British Trust for Ornithology have for many years pioneered the collaboration of amateurs and professionals in various census studies. Three members of their staff, each with extensive field experience, now pool the knowledge of these investigations to lay the groundwork for sound

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census work in future years.

### **The Eponym Dictionary of Reptiles**

This book is a review of all the myriad aspects of the biology, ecology, evolution, physiology, and behavior of amphibians and reptiles. (Midwest).

### **Handbook of Larval Amphibians of the United States and Canada**

In 1984, a conference called Wildlife 2000: Modeling habitat relationships of terrestrial vertebrates, was held at Stanford Sierra Camp at Fallen Leaf Lake in the Sierra Nevada Mountains of California. The conference was well-received, and the published volume (Verner, J. , M. L. Morrison, and C. J. Ralph, editors. 1986. Wildlife 2000: modeling habitat relationships of terrestrial vertebrates, University of Wisconsin Press, Madison, Wisconsin, USA) proved to be a landmark publication that received a book award by The Wildlife Society. Wildlife 2001: populations was a followup conference with emphasis on the other major biological field of wildlife conservation and management, populations. It was held on July 29-31, 1991, at the Oakland Airport Hilton Hotel in Oakland, California, in accordance with our intent that this conference have a much stronger international representation than did

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Wildlife 2000. The goal of the conference was to bring together an international group of specialists to address the state of the art in wildlife population dynamics, and set the agenda for future research and management on the threshold of the 21st century. The mix of specialists included workers in theoretical, as well as practical, aspects of wildlife conservation and management. Three general sessions covered methods, modelling, and conservation of threatened species.

### **Biodiversity: Finance and the Economic and Business Case for Action**

This accessible and timely book provides a comprehensive overview of how to measure biodiversity. The book highlights new developments, including innovative approaches to measuring taxonomic distinctness and estimating species richness, and evaluates these alongside traditional methods such as species abundance distributions, and diversity and evenness statistics. Helps the reader quantify and interpret patterns of ecological diversity, focusing on the measurement and estimation of species richness and abundance. Explores the concept of ecological diversity, bringing new perspectives to a field beset by contradictory views and advice. Discussion spans issues such as the meaning of community in the context of ecological diversity, scales of diversity and distribution of diversity among taxa. Highlights advances in measurement paying particular attention to

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new techniques such as species richness estimation, application of measures of diversity to conservation and environmental management and addressing sampling issues. Includes worked examples of key methods in helping people to understand the techniques and use available computer packages more effectively.

## Encyclopedia of Biological Invasions

### New Zealand Lizards

Conservation Biology, techniques, applications.

## Reptile Ecology and Conservation

"To those who have carried out research at La Selva, as well as for the serious layperson or even a first-time ecotourist, this book will be a delight. Many of these species will be seen along forest trails or in clearings nearly every day. The beauty of this splendid guide is its concise but authoritative coverage. Guyer and Donnelly have been carrying out research at La Selva for more than 25 years and have contributed much new information on the lives of these animals. A great strength is the series of keys based primarily on live coloration for rapid and accurate

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identification in the field. The added value is that the book covers 90% of the amphibians and reptiles found in the Caribbean lowlands from northeastern Honduras to and including Bocas del Toro Province, Panama. In sum, my words for this book are: 'Mighty Fine!' "--Jay M. Savage, author of *The Amphibians and Reptiles of Costa Rica* "A 40-year intensive look, precisely what we all wished we had had when we first stepped into the Neotropical rainforest. Cleanly written, in a language easily accessible to the citizen naturalist . . . and coupled with the essential many good color photos, this book is THE herpetological starting point for any naturalist, biodiversity manager, and scientist exploring lowland Central American rainforest. It superbly complements Savage's country-wide coverage."--Daniel H. Janzen, editor of *Costa Rican Natural History* "This book is an important contribution to our understanding of the herpetofauna of one of the world's foremost tropical field stations. It represents an essential step toward easy field identification of an important group of tropical vertebrates. It will serve as a stimulus and set the standard, not only for herpetologists, but for students of other groups interested in producing easily used, attractive guides to local faunas and floras."--Don E. Wilson, Senior Scientist, Smithsonian Institution, and Chairman of the Board, Organization for Tropical Studies

## **Exploring Biological Diversity, Environment, and Local People's Perspectives in Forest Landscapes: Methods for a**

## **Multidisciplinary Landscape Assessment**

This practical handbook of reptile field ecology and conservation brings together a distinguished, international group of reptile researchers to provide a state-of-the-art review of the many new and exciting techniques used to study reptiles. The authors describe ecological sampling techniques and how they are implemented to monitor the conservation status and population trends of snakes, lizards, tuatara, turtles, and crocodylians throughout the world. Emphasis is placed on the extent of statistical inference and the biases associated with different techniques and analyses. The chapters focus on the application of field research and data analysis for achieving an understanding of reptile life history, population dynamics, movement patterns, thermal ecology, conservation status, and the relationship between reptiles and their environment. The book emphasises the need for thorough planning, and demonstrates how a multi-dimensional approach incorporates information related to morphology, genetics, molecular biology, epidemiology, statistical modelling, animal welfare, and biosecurity. Although accentuating field sampling, sections on experimental applications in laboratories and zoos, thermal ecology, genetics, landscape ecology, disease and biosecurity, and management options are included. Much of this information is scattered in the scientific literature or not readily available, and the intention is to provide an affordable, comprehensive synthesis for use by graduate students, researchers, and practising conservationists worldwide.

## **Monitoring Animal Populations and Their Habitats**

In the face of so many unprecedented changes in our environment, the pressure is on scientists to lead the way toward a more sustainable future. Written by a team of ecologists, *Monitoring Animal Populations and Their Habitats: A Practitioner's Guide* provides a framework that natural resource managers and researchers can use to design monitoring programs that will benefit future generations by distilling the information needed to make informed decisions. In addition, this text is valuable for undergraduate- and graduate-level courses that are focused on monitoring animal populations. With the aid of more than 90 illustrations and a four-page color insert, this book offers practical guidance for the entire monitoring process, from incorporating stakeholder input and data collection, to data management, analysis, and reporting. It establishes the basis for why, what, how, where, and when monitoring should be conducted; describes how to analyze and interpret the data; explains how to budget for monitoring efforts; and discusses how to assemble reports of use in decision-making. The book takes a multi-scaled and multi-taxa approach, focusing on monitoring vertebrate populations and upland habitats, but the recommendations and suggestions presented are applicable to a variety of monitoring programs. Lastly, the book explores the future of monitoring techniques, enabling researchers to better plan for the future of wildlife populations and their habitats. *Monitoring Animal Populations and Their Habitats: A Practitioner's Guide* furthers the goal of achieving a world in which

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biodiversity is allowed to evolve and flourish in the face of such uncertainties as climate change, invasive species proliferation, land use expansion, and population growth.

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