

The Ecology And Behavior Of Amphibians

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Directory of Environmental Life Scientists: South Atlantic Region (Virginia, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Louisiana, Florida)
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Canadian Journal of Zoology Kentwood D. Wells
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consisting of more than six thousand species amphibians are more diverse than mammals and are found on every continent save antarctica despite the abundance and diversity of these animals many aspects of the biology of amphibians remain unstudied or misunderstood the ecology and behavior of amphibians aims to fill this gap in the literature on this remarkable taxon it is a celebration of the diversity of amphibian life and the ecological and behavioral adaptations that have made it a successful component of terrestrial and aquatic ecosystems synthesizing seventy years of research on amphibian biology kentwood d wells addresses all major areas of inquiry including phylogeny classification and morphology aspects of physiological ecology such as water and temperature relations respiration metabolism and energetics movements and orientation communication and social behavior reproduction and parental care ecology and behavior of amphibian larvae and ecological aspects of metamorphosis ecological impact of predation on amphibian populations and antipredator defenses and aspects of amphibian community ecology with an eye towards modern concerns the ecology and behavior of amphibians concludes with a chapter devoted to amphibian conservation an unprecedented scholarly contribution to amphibian biology this book is eagerly anticipated among specialists

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despite their diversity amphibians and reptiles share many physiological traits such as their dependence on external heat sources for body temperature regulation that are of pivotal importance to their ability to cope with the environment considerable variation in physiological capabilities exists in these groups and often can be related to seasonal and geographic differences in environmental parameters this book provides a comprehensive and integrative view of the interplay between physiology and behavior in amphibians and reptiles leading to a better understanding of the subject the book covers topics that have recently been in the spotlight for scientific research on the physiology behavior and conservation of amphibians and reptiles it brings together recent information from a range of disciplines that address critical topics for understanding their biology as these studies are scattered across articles in specialized journals this book provides a single and expanded source summarizing such advancements amphibian and reptile adaptations to the environment interplay between physiology and behavior maintains a solid scientific basis for the biological topics covered however it presents the material in a clear and direct manner so that it is accessible even to non biologists interested in the basic biology behavior and ecology of these animals as well as how these elements are connected to their conservation

ohio s resident amphibians currently include 25 species and subspecies of salamanders a complex of unisexual ambystomatid salamanders and 14 species of frogs and toads existing comprehensive works of amphibians for ohio are dated and out of print given this deficiency and pressured by recent survey and monitoring activity and current research needs the decision to produce a comprehensive book about ohio s amphibians which this volume represents quickly followed focusing on verifiable information about the amphibian species of ohio the core of this tome is comprised of 37 chapters organized by sections on salamanders and on frogs and toads covering all amphibians in ohio that have been documented and vouchered preceding these taxonomic species oriented chapters are sections on the history of herpetological work in ohio a summary of the ohio environment in which its amphibian species exist informative introductions to amphibian systematics brief summaries of the two groups and keys to adult and larval stages following the species accounts are sections on potential occurrences in ohio on species ranking based on conservation status and knowledge on amphibian conservation on amphibian distribution on environmental applications and a summary completing the book are two appendices involving field and vouchering documentation techniques a glossary a combined and comprehensive listing of cited literature and an index this book is both scientifically accurate and written in a style suitable for the complete spectrum of individuals and entities who are professionally or casually involved or interested in amphibians abstract page iii

written by an internationally renowned team of herpetologists this book is an up to date and definitive volume that chronicles the life histories of some of nature s most secretive yet remarkable creatures a comprehensive and readable text

this book examines the ecotoxicology and stressors of amphibians in an attempt to address issues related to declining amphibian populations and the role that various stressors might have in those losses it identifies gaps in current data interprets information into an existing framework and points toward critical areas for future research through the combined efforts of research and resource management communities recommendations can be developed to change current policies and management actions to address the problem of amphibian decline

the late 20th century and the early 21st century has been characterized by an unprecedented deterioration of the environment of the earth and the throes of one of the major extinction events of all time new diseases have emerged unmitigated deforestation desertification erosion and salinization of soil pollution of water and air and thinning of the uv protective ozone layer constitute dire ecological threats for life on the planet this volume contains 12 dynamic chapters related to amphibian decline viral and bacterial diseases of amphibians fungal diseases factors affecting interspecific variation in susceptibility to disease digenetic trematodes and their relationship to amphibian declines and deformities amphibian malformations ultra violet b radiation pollution impact of reactive nitrogen evaluating the impact of pesticides endocrine disrupting chemicals role of petrochemicals and heavy metals acidification and its effects and climate change

collects essays of thirty seven european scientists on the biology and ecology of the amphibian species from tree frogs to sand toads

comparative animal behavior meets the need for a student friendly and comprehensive text in the rapidly expanding field of animal behavior it achieves a good balance between recent hot research and classic studies of animal behavior in an organized and engaging manner comparative animal behavior surpasses other texts in its coverage of the rapidly developing area of evolutionary psychology and differs from standard texts in its organizational approach which is designed to draw students into the material in a way that no other animal behavior textbook does brief rather than extensive discussions of history are presented throughout the text to hold students interest the amount of material integrating psychological and biological approaches surpasses the competition comparative animal behavior also responds to recent shifts in research and theoretical interests by providing current information in the areas of animal learning and cognition parasitism and mutualism maier describes his book as a labor of love that reflects a life long interest in the subject and over thirty five years of teaching experience

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