

The Ecology And Behavior Of Amphibians

The Ecology and Behavior of Amphibians Model Systems in Behavioral Ecology An Introduction to Behavioural Ecology The Ecology and Behavior of Amphibians Ecology and Behavior of Chickadees and Titmice Primate Behavioral Ecology Catalogue of the University of Michigan Evolutionary Ecology and Human Behavior Evolutionary Behavioral Ecology Summer Quarter Catalogue Catalogue and Register Cooperative Breeding in Vertebrates Foraging Annual Register An Introductory Guide to EC Competition Law and Practice Connecticut Schools Connecticut Schools U.S. Government Research & Development Reports Bibliography of Scientific and Industrial Reports Kentwood D. Wells Lee Alan Dugatkin Nicholas B. Davies Kentwood D. Wells Ken A. Otter Karen B. Strier University of Michigan Eric Alden Smith David Westneat University of Chicago University of Michigan University of Michigan Walter D. Koenig David W. Stephens University of Chicago Valentine Korah Connecticut. State Board of Education The Ecology and Behavior of Amphibians Model Systems in Behavioral Ecology An Introduction to Behavioural Ecology The Ecology and Behavior of Amphibians Ecology and Behavior of Chickadees and Titmice Primate Behavioral Ecology Catalogue of the University of Michigan Evolutionary Ecology and Human Behavior Evolutionary Behavioral Ecology Summer Quarter Catalogue Catalogue and Register Cooperative Breeding in Vertebrates Foraging Annual Register An Introductory Guide to EC Competition Law and Practice Connecticut Schools Connecticut Schools U.S. Government Research & Development Reports Bibliography of Scientific and Industrial Reports *Kentwood D. Wells Lee Alan Dugatkin Nicholas B. Davies Kentwood D. Wells Ken A. Otter Karen B. Strier University of Michigan Eric Alden Smith David Westneat University of Chicago*

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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

a key way that behavioral ecologists develop general theories of animal behavior is by studying one species or a closely related group of species model systems over a long period this book brings together some of the field s most respected researchers to describe why they chose their systems how they integrate theoretical conceptual and empirical work lessons for the practice of the discipline and potential avenues of future research their model systems encompass a wide range of animals and behavioral issues from dung flies to sticklebacks dolphins to

african wild dogs from foraging to aggression territoriality to reproductive suppression model systems in behavioral ecology offers an unprecedented systems focus and revealing insights into the confluence of personal curiosity and scientific inquiry it will be an invaluable text for behavioral ecology courses and a helpful overview and a preview of coming developments for advanced researchers the twenty five chapters are divided into four sections insects and arachnids amphibians and reptiles birds and mammals in addition to the editor the contributors include geoff a parker thomas d seeley naomi pierce kern reeve gerald s wilkinson bert hölldobler and flavio roces george w uetz michael j ryan and gil rosenthal judy stamps h carl gerhardt barry sinervo robert warner manfred milinski david f westneat alan c kamil and alan b bond paul sherman jerram l brown anders pape møller marc bekoff richard c connor joan b silk christopher boesch scott creel a h harcourt and tim caro and m j kelly

the third edition of this successful textbook looks again at the influence of natural selection on behavior an animal s struggle to survive by exploiting resources avoiding predators and maximizing reproductive success in this edition new examples are introduced throughout many illustrated with full color photographs in addition important new topics are added including the latest techniques of comparative analysis the theory and application of dna fingerprinting techniques extensive new discussion on brood parasite host coevolution the latest ideas on sexual selection in relation to disease resistance and a new section on the intentionality of communication written in the lucid style for which these two authors are renowned the text is enhanced by boxed sections illustrating important concepts and new marginal notes that guide the reader through the text this book will be essential reading for students taking courses in behavioral ecology the leading introductory text from the two most prominent workers in the field second colour in the text new section of four colour plates boxed sections to illustrate difficult and important points new larger format with marginal notes to guide the reader through the text selected further reading at

the end of each chapter

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chickadees and titmice are among the most popular birds in north america due in large part to their readiness to use bird feeders to nest in urban gardens and even to be trained to take food from people s hands these attributes have also made them and their eurasian tit counterparts perhaps the most intensively studied bird family in the world long term research in europe has yielded some of the most comprehensive data on the impact of global warming on the breeding ecology of birds chickadees have amongst the best studied and most complex vocal behaviour of any bird species displaying one of the closest analogies to human

sentence structure in the animal kingdom in their familiar chickadee call the social dominance hierarchies commonly witnessed in the form of squabbling at winter feeders are some of most stable and closely studied and have huge impacts on controlling the lives of these small birds their food storing behavior and the brain and physiological mechanisms controlling this has contributed significantly to our wider understanding of spatial orientation in recent years these birds have also been used as model species for investigating topics as diverse as inter species hybridization the impacts of forest fragmentation and complex systems of communication in short chickadees and titmice have contributed enormously to our understanding of a myriad of topics in ecology behavior and psychology this book brings together a range of experts from across north america who utilise chickadees or titmice as study organisms each chapter reviews the latest advances in evolution and behavioral research that have been accomplished through the study of north american parids and compares and contrasts this literature with research on their eurasian counterparts as well as other avian families this research level text is aimed at professional avian biologists and ornithologists as well as graduate students of avian behavioral ecology and evolution it will also appeal to a more general audience of behavioural ecologists neuroethologists and experimental psychologists

this comprehensive introductory text integrates evolutionary ecological and demographic perspectives with new results from field studies and contemporary noninvasive molecular and hormonal techniques to understand how different primates behave and the significance of these insights for primate conservation each chapter is organized around the major research themes in the field with strier emphasizing the interplay between theory observations and conservation issues examples are drawn from the classic primate field studies as well as more recent studies on previously neglected species illustrating the vast behavioral variation that exists across the primate order primate behavioral ecology 5th edition also examines how anthropogenic activities are negatively impacting

primate populations including a thorough analysis of behavioural plasticity and its implications this fully updated new edition incorporates exciting new discoveries and the most up to date approaches in the field to provide an invaluable overview of the field of primate behavioral ecology and its applications to primate conservation it is considered to be a must read for all students interested in primates

à required reading for anyone interested in the economy ecology and demography of human societies american journal of human biology this excellent book can serve both as a textbook and as a scholarly reference american scientist

evolutionary behavioral ecology is intended to be used as a text for graduate students and a sourcebook for professional scientists seeking an understanding of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors chapters are written by leading experts in the field providing a core foundation a history of conceptual developments and fresh insight into the controversies and themes shaping the continuing development of the field essays on adaptation selection fitness genetics plasticity and phylogeny as they pertain to behavior place the field in the broader context of ecology and evolution these concepts along with a diversity of theoretical approaches are applied to the evolution of behavior in a many contexts from individual decision making of solitary animals through to complex social interactions chapters integrate conceptual and theoretical approaches with recent empirical advances to understand the evolution of behavior from foraging dealing with risk predator avoidance and an array of social behaviors including fighting and cooperation with conspecifics and conflict and cooperation between the sexes the material emphasizes integrative and novel approaches to behavior including cognitive ecology personality conservation biology the links between behavior and evolution the evolution of human social behavior and ways in which modern genetic analyses can augment the study of behavior

announcements for the following year included in some vols

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cooperative breeders are species in which individuals beyond a pair assist in the production of young in a single brood or litter although relatively rare cooperative breeding is widespread taxonomically and continues to pose challenges to our understanding of the evolution of cooperation and altruistic behavior bringing together long term studies of cooperatively breeding birds mammals and fish this volume provides a synthesis of current studies in the field the chapters are organised by individual studies of particular species or in the case of mole rats two closely related cooperatively breeding species each focuses not only on describing behavior and ecology but also on testing evolutionary hypotheses for the form and function of the diverse and extraordinary cooperative breeding lifestyles that have been discovered this unique and comprehensive text will be of interest to graduate students and researchers of behavioral ecology and the evolution of cooperation

foraging is fundamental to animal survival and reproduction yet it is much more than a simple matter of finding food it is a biological imperative animals must find and consume resources to succeed and they make extraordinary efforts to do so for instance pythons rarely eat but when they do their meals are large as much as 60 percent larger than their own bodies the snake s digestive system is normally dormant but during digestion metabolic rates can increase fortyfold a python digesting quietly on the forest floor has the metabolic rate of thoroughbred in a dead heat this and related foraging processes have broad applications in ecology cognitive science anthropology and conservation biology and they can be further extrapolated in economics neurobiology and computer science foraging is the first comprehensive review of the topic in more than twenty years a monumental undertaking this volume brings together twenty two experts from throughout the

field to offer the latest on the mechanics of foraging modern foraging theory and foraging ecology the fourteen essays cover all the relevant issues including cognition individual behavior caching behavior parental behavior antipredator behavior social behavior population and community ecology herbivory and conservation considering a wide range of taxa from birds to mammals to amphibians foraging will be the definitive guide to the field

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