

Long-Term Studies of Vertebrate Communities

Edited by Martin L. Cody Jeffrey A. Smallwood







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Martin L. Cody, Jeffrey A. Smallwood

Long Term Studies Of Vertebrate Communities:

Long-Term Studies of Vertebrate Communities Martin L. Cody, Jeffrey A. Smallwood, 1996-10-24 This unique book synthesizes the ongoing long term community ecology studies of fish amphibians reptiles birds and mammals The studies have been conducted from deserts to rainforests as well as in terrestrial freshwater and marine habitats and provide valuable insight that can be obtained only through persistent diligent and year after year investigation Long Term Studies of Vertebrate Communities is ideal for faculty researchers graduate students and undergraduates in vertebrate biology ecology and evolutionary biology including ecology natural history and systematics Provides unique perspectives of community stability and variation Details the influence of natural and other perturbations on community structure Includes synopses by well known authors Presents results from a broad range of vertebrate taxa Studies were conducted at different latitudes and in different habitats

Reptile Biodiversity Roy W. McDiarmid,2012-01-10 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 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

Nouragues F. Bongers, P. Charles-Dominique, P.-M. Forget, Marc Théry, 2013-06-29 Nouragues is a tropical forest research station in French Guiana It was established in 1986 for research on natural mechanisms of forest regeneration Since then a lot of research has been done on this and related topics This book provides an overview of the main research results and focuses on plant communities vertebrate communities and evolutionary ecology frugivory and seed dispersal and forest dynamics and recruitment The appendices give annoted checklists of plants birds mammals herpetofauna and fishes found in the same area Bird Conservation Implementation and Integration in the Americas ,2005 Hantaviruses J. S. Mackenzie, 1999-06 Emerging Infectious Diseases ,1999 **Amphibian Research and Monitoring Initiative:** Herpetology Laurie J. Vitt, Janalee P. Caldwell, 2013-03-25 The fourth edition of **Concepts and Implementation**, 2005 the textbook Herpetology covers the basic biology of amphibians and reptiles with updates in nearly every conceptual area Not only does it serve as a solid foundation for modern herpetology courses but it is also relevant to courses in ecology behavior evolution systematics and morphology Examples taken from amphibians and reptiles throughout the world make this book a useful herpetology textbook in several countries Naturalists amateur herpetologists herpetoculturists zoo professionals and many others will find this book readable and full of relevant natural history and distributional information Amphibians and reptiles have assumed a central role in research because of the diversity of ecological physiological morphological behavioral and evolutionary patterns they exhibit This fully revised edition brings the latest research to the

reader ranging over topics in evolution reproduction behavior and more allowing students and professionals to keep current with a quickly moving field Heavily revised and updated with discussion of squamate lizard and snake taxonomy and new content reflected in current literature Includes increased focus on conservation biology in herpetology while retaining solid content on organismal biology of reptiles and amphibians Presents new photos included from authors extensive library

Animal Behavior Ken Yasukawa, 2014-01-22 Discover why animals do what they do based on their genes physiologies cultures traditions survival and mating advantages and evolutionary histories and find out how studying behavior in the animal world helps us understand human behavior The three volumes of Animal Behavior How and Why Animals Do the Things They Do cover the breadth of the field addressing causation development function and evolution in a wide range of animals from invertebrates to humans Inspired by Nobel laureate Nikolaas Tinbergen s work the first two volumes follow Tinbergen s four classic questions of animal behavior while the third volume supplies integrated examples of Tinbergen s investigative process applied in specific cases Written in an engaging accessible manner ideal for college students as well as general audiences this evidence based collection provides a fascinating tour of animal behaviorists findings such as how animal communication can be truthful or deceitful the deadly serious business behind clashes in the battle of the sexes and how documentation of animal behavior can lead to a deeper understanding of human behavior Each chapter provides both historical background and information about current developments in animal behavior knowledge and Dolphins Jeanette A. Thomas, Cynthia F. Moss, Marianne Vater, 2004 Although bats and dolphins live in very different environments are vastly different in size and hunt different kinds of prey both groups have evolved similar sonar systems known as echolocation to locate food and navigate the skies and seas While much research has been conducted over the past thirty years on echolocation in bats and dolphins this volume is the first to compare what is known about echolocation in each group to point out what information is missing and to identify future areas of research Echolocation in Bats and Dolphins consists of six sections mechanisms of echolocation signal production the anatomy and physiology of signal reception and interpretation performance and cognition ecological and evolutionary aspects of echolocation mammals theoretical and methodological topics and possible echolocation capabilities in other mammals including shrews seals and baleen whales Animal behaviorists ecologists physiologists and both scientists and engineers who work in the field of bioacoustics will benefit from this book Biodiversity and Environmental Change Emma Burns, David Lindenmayer, Andrew Lowe, Nicole Thurgate, 2014-02-06 Annotation Long term ecological data are critical for informing long term trends in biodiversity and trends in environmental change The Terrestrial Ecosystem Research Network TERN is a major initiative of the Australian Government and one of its key areas of investment is to provide funding for a network of long term ecological research plots around Australia LTERN This book highlights some of the temporal changes in the environment and or in biodiversity that have occurred in different ecosystems ranging from tropical rainforests wet eucalypt forests and alpine regions through to

rangelands and deserts Many important trends and changes are documented and they often provide new insights that were previously poorly understood or unknown These data are precisely the kinds of data so desperately needed to better quantify the temporal trajectories in the environment and biodiversity in Australia The Theory of Island Biogeography Revisited Jonathan B. Losos Losos, Robert E. Ricklefs, 2009-10-19 Robert H MacArthur and Edward O Wilson's The Theory of Island Biogeography first published by Princeton in 1967 is one of the most influential books on ecology and evolution to appear in the past half century By developing a general mathematical theory to explain a crucial ecological problem the regulation of species diversity in island populations the book transformed the science of biogeography and ecology as a whole In The Theory of Island Biogeography Revisited some of today's most prominent biologists assess the continuing impact of MacArthur and Wilson's book four decades after its publication Following an opening chapter in which Wilson reflects on island biogeography in the 1960s fifteen chapters evaluate and demonstrate how the field has extended and confirmed as well as challenged and modified MacArthur and Wilson's original ideas Providing a broad picture of the fundamental ways in which the science of island biogeography has been shaped by MacArthur and Wilson's landmark work The Theory of Island Biogeography Revisited also points the way toward exciting future research The Senses: A Comprehensive Reference ,2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the function of sense organs sensory systems and how the brain processes sensory input As with the first edition contributions from leading scholars from around the world will ensure The Senses offers a truly international portrait of sensory physiology The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and deepen their knowledge All inclusive coverage of topics updated edition offers readers the only current reference available covering neurobiology physiology anatomy and molecular biology of sense organs and the processing of sensory information in the brain Authoritative content world leading contributors provide readers with a reputable dynamic and authoritative account of the topics under discussion Comprehensive style content in depth complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion Darwin's Finches Kathleen

Donohue, 2011-06-15 Two species come to mind when one thinks of the Galapagos Islands the giant tortoises and Darwin s fabled finches While not as immediately captivating as the tortoises these little brown songbirds and their beaks have become one of the most familiar and charismatic research systems in biology providing generations of natural historians and scientists a lens through which to view the evolutionary process and its role in morphological differentiation In Darwin s Finches Kathleen Donohue excerpts and collects the most illuminating and scientifically significant writings on the finches of the Galapagos to teach the fundamental principles of evolutionary theory and to provide a historical record of scientific debate Beginning with fragments of Darwin's Galapagos field notes and subsequent correspondence and moving through the writings of such famed field biologists as David Lack and Peter and Rosemary Grant the collection demonstrates how scientific processes have changed over time how different branches of biology relate to one another and how they all relate to evolution As Donohue notes practicing science today is like entering a conversation that has been in progress for a long long time Her book provides the history of that conversation and an invitation to join in Students of both evolutionary biology and history of science will appreciate this compilation of historical and contemporary readings and will especially value Donohue s enlightening commentary Ecological Responses to the 1980 Eruption of Mount St. Helens Virginia H. Dale, Frederick J. Swanson, Charles M. Crisafulli, 2006-01-16 Reconguring Disturbance Succession and Forest Management The Science of Mount St Helens When Mount St Helens erupted on May 18 1980 it did more than just recon gure a large piece of Cascadian landscape It also led to dramatic revisions in our perspectives on disturbances secondary succession and forestry practices The Mount St Helens landscape turned out to be a far more complex place than the moonscape that it initially appeared to be Granted a large area was literally scoured and sterilized and that vast expanse of newly formed rock mud ows and avalanche debris up and down the mountain made the Mount St Helens landscape unique But I still remember my surprise when as I stepped out of the helicopter on rst landing within the extensive devastated zone I saw hundreds of plants pushing their way up through the mantel of tephra Surviving organisms were stunning in their diversity abundance and the mechanisms by which they survived They persisted as whole organisms living below ground encased within late persisting snowbanks and buried in lake and stream sediments They survived as rhizomes transported along with the massive landslide that accompanied the eruption and as stems that suffered the abrasion of mud ows Mud ows oated nurse logs covered with tree seedlings and then redeposited them on the oor of a forested river terrace Millions perhaps billions of plants survived as rootstocks and rhizomes that pushed their way up through the tephra and others survived on the bases of Bat Ecology Thomas H. Kunz, M. Brock Fenton, 2005 In recent years researchers have discovered that bats uprooted trees play key roles in many ecosystems as insect predators seed dispersers and pollinators Bats also display astonishing ecological and evolutionary diversity and serve as important models for studies of a wide variety of topics including food webs biogeography and emerging diseases In Bat Ecology world renowned bat scholars present an up to date comprehensive and

authoritative review of this ongoing research The first part of the book covers the life history and behavioral ecology of bats from migration to sperm competition and natural selection The next section focuses on functional ecology including ecomorphology feeding and physiology In the third section contributors explore macroecological issues such as the evolution of ecological diversity range size and infectious diseases including rabies in bats A final chapter discusses conservation challenges facing these fascinating flying mammals Bat Ecology is the most comprehensive state of the field collection for scientists and researchers Contributors John D Altringham Robert M R Barclay Tenley M Conway Elizabeth R Dumont Peggy Eby Abigail C Entwistle Theodore H Fleming Patricia W Freeman Lawrence D Harder Gareth Jones Linda F Lumsden Gary F McCracken Sharon L Messenger Bruce D Patterson Paul A Racey Jens Rydell Charles E Rupprecht Nancy B Simmons Jean S Smith John R Speakman Richard D Stevens Elizabeth F Stockwell Sharon M Swartz Donald W Thomas Otto von Helversen Gerald S Wilkinson Michael R Willig York Winter The Longleaf Pine Ecosystem Shibu Jose, Eric J. Jokela, Deborah L. Miller, 2007-09-09 This book unites a wealth of current information on the ecology silviculture and restoration of the Longleaf Pine ecosystem The book includes a discussion of the significant historical social and political aspects of ecosystem management making it a valuable resource for students land managers ecologists private landowners government agencies consultants and the forest products industry Protected Area Management Mohd Nazip Suratman, 2022-03-16 Until recently values and benefits from protected areas have often been underestimated as well as taken for granted Protected Area Management Recent Advances demonstrates that there are deep necessities in how the wider scientific environmental socioeconomic and cultural values that these natural ecosystems provide should increasingly be recognized. The book highlights various approaches for managing and conserving protected areas to respond to some pressing global challenges such as climate change demand for food and energy overexploitation and habitat change It addresses these issues in five main sections that cover biodiversity and genetic resources protected marine areas community ecotourism and protected The Unified Neutral Theory of Biodiversity and areas and protected area conservation and monitoring **Biogeography** Stephen P. Hubbell, 2011-06-27 Despite its supreme importance and the threat of its global crash biodiversity remains poorly understood both empirically and theoretically This ambitious book presents a new general neutral theory to explain the origin maintenance and loss of biodiversity in a biogeographic context Until now biogeography the study of the geographic distribution of species and biodiversity the study of species richness and relative species abundance have had largely disjunct intellectual histories In this book Stephen Hubbell develops a formal mathematical theory that unifies these two fields When a speciation process is incorporated into Robert H MacArthur and Edward O Wilson's now classical theory of island biogeography the generalized theory predicts the existence of a universal dimensionless biodiversity number In the theory this fundamental biodiversity number together with the migration or dispersal rate completely determines the steady state distribution of species richness and relative species abundance on local to large geographic spatial scales and short

term to evolutionary time scales Although neutral Hubbell's theory is nevertheless able to generate many nonobvious testable and remarkably accurate quantitative predictions about biodiversity and biogeography In many ways Hubbell's theory is the ecological analog to the neutral theory of genetic drift in genetics. The unified neutral theory of biogeography and biodiversity should stimulate research in new theoretical and empirical directions by ecologists evolutionary biologists and biogeographers. Ouachita and Ozark Mountains Symposium, 2004. This volume presents 5 year results of silvicultural treatments associated with ecosystem management research in the Ouachita Mountains of Arkansas Results from stand level treatments include regeneration dynamics of pine and hardwood species effects of treatment on birds and small mammals mast production visual quality oak decline and organic matter Pretreatment landscape findings include measurements of woody vegetation birds mammals and herpetofauna fish communities and trophic structure hydrology and evaluation of susceptibility to gypsy moth outbreaks

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