

# **Bat Biology And Conservation**

Thomas H. Kunz, M. Brock Fenton

### **Bat Biology And Conservation:**

BAT BIOLOGY & CONSERVATION KUNZ THOMAS H,P. A. Racey,1998-10-17 Presenting the most recent research and synthetic reviews of more than thirty five of the world's leading authorities on bats Bat Biology and Conservation discusses bat phylogeny and evolution functional morphology echolocation and conservation biology It is an essential reference not only for bat scientists but also for conservation biologists and those working with other mammalian groups Thomas H. Kunz, M. Brock Fenton, 2003-04-15 In recent years researchers have discovered that bats 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 Bats John D. Altringham, 2011-08-25 Bats are highly charismatic and popular animals that are not only fascinating in their own right but illustrate most of the topical and important concepts and issues in mammalian biology This book covers the key aspects of bat biology including evolution flight echolocation hibernation reproduction feeding and roosting ecology social behaviour migration population and community ecology biogeography and conservation This new edition is fully updated and greatly expanded throughout maintaining the depth and scientific rigour of the first edition It is written with infectious enthusiasm and beautifully illustrated with drawings and colour photographs BAT BIOLOGY & CONSERVATION KUNZ THOMAS H,1998-10-17 Papers from the Tenth International Bat Research Conference held at Boston University in 1995 cover the origins form echolocation and A Miscellany of Bats M. Brock Fenton, Jens Rydell, 2023-01-10 Bats have long been the focus of conservation of bats fascination and sometimes fear they move faultlessly through the darkness and spend the day hanging upside down in gloomy caverns and cracks most at home where humans are least comfortable Bats also represent a hugely important numerous and varied group accounting for 20% of all mammal species worldwide Covering their biodiversity ecology and

natural history A Miscellany of Bats offers a hoard of insights into the lives of these creatures For over a quarter of a century Brock Fenton and the late Jens Rydell collaborated on projects involving bats Here they bring together a collection of stories and anecdotes about bat research brought to life by stunning photographs of these animals in action Key topics include flight and echolocation diet and roosting habits and the complex social lives of bats Jens and Brock also address issues of conservation and the interactions between bats and people ranging from matters of disease to bats role as symbols and our fixation with vampire bats They explore how echolocation and flight shape batkind from their appearance to where they go and why Overall this book is an entertaining and personal vision of bats central place in the universe More than 150 species Bat Evolution, Ecology, and Conservation Rick A. Adams, Scott C. Pedersen, 2013-09-05 Recent advances in the study of bats have changed the way we understand this illusive group of mammals This volume consist of 25 chapters and 57 authors from around the globe all writing on the most recent finding on the evolution ecology and conservation of bats The chapters in this book are not intended to be exhaustive literature reviews but instead extended manuscripts that bring new and fresh perspectives Many chapters consist of previously unpublished data and are repetitive of new insights and understanding in bat evolution ecology and conservation All chapters were peer reviewed and revised by the authors Many of the chapters are multi authored to provide comprehensive and authoritative coverage of the topics and Conservation of Australasian Bats Bradley Law, Peggy Eby, Lindy Lumsden, Daniel Lunney, 2011 This book the Biology and Conservation of Australasian Bats follows from the successful 3 day forum of the same name held in April 2007 at the Australian Museum The forum was organised jointly by the Royal Zoological Society of NSW and the Australasian Bat Society

**50 Years of Bat Research** Burton K. Lim, M. Brock Fenton, R. Mark Brigham, Shahroukh Mistry, Allen Kurta, Erin H. Gillam, Amy Russell, Jorge Ortega, 2021-01-23 With more than 1 400 species bats are an incredibly diverse and successful group of mammals that can serve as model systems for many unique evolutionary adaptations Flight has allowed them to master the sky while echolocation enables them to navigate in the dark Being small secretive nocturnal creatures has made bats a challenge to study but over the past 50 years innovative research has made it possible to dispel some of the mystery and myth surrounding them to give us a better understanding of the role these animals play in the ecosystem The structure of the book is based on several broad themes across the biological sciences including the evolution of bats their ecology and behavior and conservation of biodiversity Within these themes are more specific topics on important aspects of bat research such as morphology molecular biology echolocation taxonomy systematics threats to bats social structure reproduction movements and feeding strategies Given its scope the book will appeal to the wider scientific community environmental organizations and government policymakers who are interested in the interdisciplinary aspects of biology and nature

**Ecological and Behavioral Methods for the Study of Bats** Thomas H. Kunz, Stuart Parsons, 2009-11-09 Thomas H. Kunz is a professor of biology and director of the Center for Ecology and Conservation Biology at Boston University He is the

editor of Bat Biology and Conservation and Bat Ecology Stuart Parsons is a senior lecturer in biological sciences at the University of Auckland New Zealand Jacket Bats in Forests Michael J. Lacki, John P. Hayes, Allen Kurta, 2007-05-11 Although bats are often thought of as cave dwellers many species depend on forests for all or part of the year Of the 45 species of bats in North America more than half depend on forests using the bark of trees tree cavities or canopy foliage as roosting sites Over the past two decades it has become increasingly clear that bat conservation and management are strongly linked to the health of forests within their range Initially driven by concern for endangered species the Indiana bat for example forest ecologists timber managers government agencies and conservation organizations have been altering management plans and silvicultural practices to better accommodate bat species Bats in Forests presents the work of a variety of experts who address many aspects of the ecology and conservation of bats The chapter authors describe bat behavior including the selection of roosts foraging patterns and seasonal migration as they relate to forests They also discuss forest management and its influence on bat habitat Both public lands and privately owned forests are considered as well as techniques for monitoring bat populations and activity The important role bats play in the ecology of forests from control of insects to nutrient recycling is revealed by a number of authors Bat ecologists bat conservationists forest ecologists and forest managers will find in this book an indispensable synthesis of the topics that concern them

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