

# The Short-tailed FRUIT BAT

*A Study in Plant-Animal Interactions*



Theodore H. Fleming

Wildlife Behavior and Ecology Series

# Short Tailed Fruit Bat A Study In Plant Animal Interactions

**Theodore H. Fleming, Alfonso Valiente-Banuet**



## **Short Tailed Fruit Bat A Study In Plant Animal Interactions:**

*The Short-Tailed Fruit Bat* Theodore H. Fleming, 1988-10-11 As dusk settles over the Costa Rican forest the short tailed fruit bat *Carollia perspicillata* stirs from its cave roost Flying out to search for ripe fruit *Carollia* returns to a night roost in the forest vegetation to eat After a few such flights *Carollia* rests and the fruits pass through its short digestive tract The seeds are excreted onto the ground to be eaten in turn by mice and insects but a few are pushed into crevices where they await the necessary conditions for germination In *The Short tailed Fruit Bat* Theodore Fleming examines *Carollia*'s role in the ecology of tropical forests Based on more than ten years research this study provides the most detailed ecological and evolutionary account to date of the life history of a Neotropical mammal and includes striking photographs of the bats in flight

*Columnar Cacti and Their Mutualists* Theodore H. Fleming, Alfonso Valiente-Banuet, 2021-11-30 Although cacti such as the saguaro and organ pipe have come to define the Sonoran Desert for many people they represent some 170 species of columnar cacti found in many parts of the Americas These giant plants are so dominant in some ecosystems that many species of animals rely on them for food and shelter They are pollinated by bats in central Mexico and Venezuela by birds and bees in northern Mexico and Peru This book summarizes our current knowledge about the ecology evolution and conservation of columnar cacti and their vertebrate mutualists to show that the very survival of these cacti depends on animals who pollinate them and disperse their seeds Contributors from the United States Mexico Venezuela and Colombia explore aspects of geology and evolution that have forged this relationship review findings in anatomy and physiology and discuss recent research in population and community ecology as well as conservation issues Ranging from the Sonoran Desert to the northern Andes these studies reflect recent progress in understanding how abiotic and biotic factors interact to influence the evolution distribution and abundance of cacti and mutualists alike In addition this book examines the ways in which humans through the process of domestication have modified these plants for economic benefit The contributors also review phylogenetic relationships between cacti and nectar feeding bats in an effort to understand how bat plant interactions have influenced the evolution of diversity and ecological specialization of both Because of the number of migratory pollinators feeding on columnar cacti the authors make conservation recommendations aimed at preserving fully functional ecosystems in arid portions of the New World tropics and subtropics No other book treats the pollination ecology of cacti in such depth or offers such a wealth of up to date material on the nectar feeding bats of the New World As scientists become increasingly concerned with the need to protect biotic interactions *Columnar Cacti and Their Mutualists* provides a benchmark for both conservation efforts and future research

**Sociality in Bats** Jorge Ortega, 2016-06-07 This book provides new insights into the social behavior of bats one of the most fascinating topics currently being pursued by researchers After an introduction reviewing the history of research in bat behavioral ecology it covers three major themes bat sociality per se Part I bat communication Part II and ecological aspects Part III Part I offers a concise overview of the

social organization and systems of bats introducing readers to the complexity and dynamics of group structures Part II is devoted to the innovative field of social communication focusing on bat songs dialects and calls Part III discusses the influence of the environment on bat behavior particularly with regard to roosting and foraging This book addresses the needs of researchers working in behavioral sciences evolution and ecology      **Bats** James S. Findley, 1995-01-26 Extensive scientific study of bats suggests that they are long lived slowly reproducing animals adapted to relatively stable environments As such they might be expected to exist in communities heavily influenced by biotic interactions This book begins with an overview of bat biology including their systematic diversity and methodological problems in bat research This is followed by examples of local bat community surveys from the major biogeographic regions The evidence bearing upon resource limitation and competition in bats is reviewed Then patterns in species richness taxonomic packing biomass numerical density trophic and morphological diversity are described The relevance of these to the nature of bat communities is examined Major habitats and their histories are shown to be powerful predictors of important aspects of bat community structure      *Bat Ecology* Thomas H. Kunz, M. Brock Fenton, 2005 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 Helvesen Gerald S Wilkinson Michael R Willig York Winter      Glandular Mechanisms of Salivary Secretion J. R. Garrett, J. Ekström, L. C. Anderson, P. T. Sharpe, 1998-07 Saliva is essential for oral health and influences all events in the mouth A deficiency of saliva can have devastating consequences Therefore it is important to have a book about the basic tissue mechanisms involved in the secretion of saliva based on an holistic approach With such an aim in mind this book contains chapters covering the histological basis for secretion electrophysiological events electrolyte and water secretion protein synthesis and secretion bloodflow capillary dynamics myoepithelial activity glandular permeability hormonal influences including the

effects of diabetes and the synthesis and secretion of IgA in man The chapters have been written by international experts in the field who present balanced accounts of their subjects The secretory mechanisms described in this book have a far reaching impact beyond the salivary field and have applicability to all forms of exocrine secretion Salivary glands offer many advantages for experimental study of these phenomena since they can be tested more precisely than most other glands having ducts that can readily be cannulated for assessing the secretion As a single source of up to date data this book will benefit doctors and dentists and anyone interested in secretory phenomena including physiologists biochemists and cell biologists It not only brings together all available data on this subject as it stands at the turn of the century but also lays down a sound platform of knowledge on which further investigations can be based *Bats of Colima, Mexico* Cornelio Sánchez-Hernández, María de Lourdes Romero-Almaraz, Gary D. Schnell, Michael L. Kennedy, Troy L. Best, Robert D. Owen, Sara B. González-Pérez, 2016-09-16 The tiny state of Colima on Mexico's Pacific coast is one of the three most biodiverse hot spots in the world Straddling temperate and tropical zones with rugged topography ranging from a volcanic mountaintop to sandy beaches the state shelters nearly half 66 of Mexico's species of Chiroptera or bats In this volume studded with more than 200 full color photographs and maps a team of mammalogists from Mexico and the United States marshal information gathered over decades to present a comprehensive portrait of the bats of Colima *Bats of Colima Mexico* provides readers with the tools necessary to understand and identify each species of Colima's bat population from the sac winged bats of family Emballonuridae to the mustached bats of family Mormoopidae A dichotomous key indicates how each bat can be differentiated and describes the seven families within which they fall The authors provide an in depth description of each species including a photograph a map of its distribution across Colima and information on habitat reproduction conservation status and more By calling attention to Colima's rich chiropteran fauna *Bats of Colima Mexico* should not only foster interest in the rich biodiversity of the region but also nurture further collaboration between scientists and naturalists in the United States and Mexico **Primates in Fragments** Laura K. Marsh, 2013-06-29 This volume was created initially from a symposium of the same name presented at the International Primatological Society's XVIII Congress in Adelaide South Australia 6-12 January 2000 Many of the authors who have contributed to this text could not attend the symposium so this has become another vehicle for the rapidly growing discipline of Fragmentation Science among primatologists Fragmentation has quickly become a field separate from general ecology which underscores the severity of the situation since we as a planet are rapidly losing habitat of all types to human disturbance Getting ecologists particularly primatologists to admit that they study in fragments is not easy In the field of primatology one studies many things but rarely do those things genetics behavior population dynamics get called out as studies in fragmentation For some reason fragmentation primatologists fear that our work is somehow not as good as those who study in continuous habitat We worry that perhaps our subjects are not demonstrating as robust behaviors as they should given fragmented or disturbed habitat conditions I had a colleague openly

state that she did not work in fragmented forests that she merely studied behavior when it was clear that her study sites everyone of them was isolated habitat Our desire to be just another link in the data chain for wild primates is so strong that it makes us deny what kinds of habitats we are working in However **Bats** M. Brock Fenton, Nancy B. Simmons, 2015-01-28 There are more than 1 300 species of bats or almost a quarter of the world s mammal species But before you shrink in fear from these furry creatures of the night consider the bat s fundamental role in our ecosystem A single brown bat can eat several thousand insects in a night Bats also pollinate and disperse the seeds for many of the plants we love from bananas to mangoes and figs Bats A World of Science and Mystery presents these fascinating nocturnal creatures in a new light Lush full color photographs portray bats in flight feeding and mating in views that show them in exceptional detail The photos also take the reader into the roosts of bats from caves and mines to the tents some bats build out of leaves A comprehensive guide to what scientists know about the world of bats the book begins with a look at bats origins and evolution The book goes on to address a host of questions related to flight diet habitat reproduction and social structure Why do some bats live alone and others in large colonies When do bats reproduce and care for their young How has the ability to fly unique among mammals influenced bats mating behavior A chapter on biosonar or echolocation takes readers through the system of high pitched calls bats emit to navigate and catch prey More than half of the world s bat species are either in decline or already considered endangered and the book concludes with suggestions for what we can do to protect these species for future generations to benefit from and enjoy From the tiny bumblebee bat the world s smallest mammal to the Giant Golden Crowned Flying Fox whose wingspan exceeds five feet A Battery of Bats presents a panoramic view of one of the world s most fascinating yet least understood species Biodiversity Conservation in Costa Rica Gordon W. Frankie, Alfonso Mata, S. Bradleigh Vinson, 2025-03-21 The beautiful tropical dry forest of northwest Costa Rica with its highly seasonal rainfall and diversely vegetated landscape is disappearing even more rapidly than Costa Rica s better known rain forest primarily because it has been easier to convert to agriculture This book based on more than thirty years of study offers the first comprehensive look at the ecology biodiversity and conservation status of this endangered and fragile region The contributors from Costa Rica Britain Mexico and the United States and representing the fields of ecology environmental education policy and the law examine the major plant and animal groups living in the dry forest and present the first technical evaluation of Costa Rica s conservation efforts As they assess the status of their area of specialty in the dry forest the contributors also look beyond this particular region to show how its plants and animals are ecologically and evolutionarily connected to other geographic areas in Costa Rica and Central America Their chapters cover topics such as watershed and coastal management plant phenology pollination insects birds mammals amphibians and reptiles They also consider the socioeconomic policy legal and political aspects of biodiversity conservation giving the volume a wide ranging perspective and making a unique contribution to our knowledge of the tropical dry forest The book concludes with an important synthesis of the contributors recommendations on

future directions policies and actions that will better conserve biodiversity in Costa Rica and other neotropical forests as well

This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 2005

*Phenology: An Integrative Environmental Science* Mark D. Schwartz, 2013-07-30 Phenology refers to recurring plant and animal life cycle stages such as leafing and flowering maturation of agricultural plants emergence of insects and migration of birds It is also the study of these recurring events especially their timing and relationships with weather and climate Phenological phenomena all give a ready measure of the environment as viewed by the associated organism and are thus ideal indicators of the impact of local and global changes in weather and climate on the earth's biosphere Assessing our changing world is a complex task that requires close cooperation from experts in biology climatology ecology geography oceanography remote sensing and other areas Like its predecessor this second edition of Phenology is a synthesis of current phenological knowledge designed as a primer on the field for global change and general scientists students and interested members of the public With updated and new contributions from over fifty phenological experts covering data collection current research methods and applications it demonstrates the accomplishments progress over the last decade and future potential of phenology as an integrative environmental science

Gradients in a Tropical Mountain Ecosystem of Ecuador Erwin Beck, Jörg Bendix, Ingrid Kottke, Franz Makeschin, Reinhard Mosandl, 2008-01-24 A fascinating work that provides a wealth of information on one of the world's most biodiverse ecosystems This is the result of investigations by almost 30 groups of researchers from various disciplines They performed ecosystem analyses following two gradients an altitudinal gradient and a gradient of land use intensity and ecosystem regeneration following human use Based on these analyses this volume discusses these findings in a huge variety of subject areas

Tropical Dry Forests in the Americas Arturo Sanchez-Azofeifa, Jennifer S. Powers, Geraldo W. Fernandes, Mauricio Quesada, 2013-08-29 Under threat from natural and human disturbance tropical dry forests are the most endangered ecosystem in the tropics yet they rarely receive the scientific or conservation attention they deserve In a comprehensive overview Tropical Dry Forests in the Americas Ecology Conservation and Management examines new approaches for data sampling and analysis using remote sensing technology discusses new ecological and econometric methods and critically evaluates the socio economic pressures that these forests are facing at the continental and national levels The book includes studies from Mexico Costa Rica Colombia Venezuela and Brazil that provide in depth knowledge about the function status and conservation efforts of these endangered forests It presents key elements of synthesis from standardized work conducted across all sites This unique contribution provides new light in terms of these forests compared to each other not only from an ecological perspective but also in terms of the pressures that they are facing and their respective responses Written by experts from a diversity of fields this

reference brings together the many facets of function use heritage and future potential of these forests It presents an important and exciting synthesis of many years of work across countries disciplines and cultures By standardizing approaches for data sampling and analysis the book gives readers comparison information that cannot be found anywhere else given the high level of disparity that exists in the current literature

**Phenology: An Integrative Environmental Science** Mark Schwartz,2003-10-31 Phenology is the study of plant and animal life cycle events which are triggered by environmental changes especially temperature Wide ranges of phenomena are included from first openings of leaf and flower buds to insect hatchings and return of birds Each one gives a ready measure of the environment as viewed by the associated organism Thus phenological events are ideal indicators of the impact of local and global changes in weather and climate on the earth s biosphere Assessing our changing world is a complex task that requires close cooperation from experts in biology climatology ecology geography oceanography remote sensing and other areas This book is a synthesis of current phenological knowledge designed as a primer on the field for global change and general scientists students and interested members of the public With contributions from a diverse group of over fifty phenological experts covering data collection current research methods and applications it demonstrates the accomplishments and potential of phenology as an integrative environmental science

**Advances in Ecological Research** ,1999-12-10 The six reviews in this latest issue of Advances in Ecological Research cover a broad spectrum of ecology from micro patterns and processes to the ecophysiology of the individual organism to forest scale processes Topics covered include the possible evolutionary forces that have shaped particular strategies and the potential and limitations for techniques in ecology such as fractal geometry field experiments and eddy co variance measures Despite this diversity of topics there are plenty of points of contact and cross reference

Activity Patterns in Small Mammals S. Halle,N.C. Stenseth,2012-12-06 Environmental conditions change considerably in the course of 24 h with respect to abiotic factors and intra and interspecific interactions These changes result in limited time windows of opportunity for animal activities and hence the question of when to do what is subject to fitness maximisation This volume gives a current overview of theoretical considerations and empirical findings of activity patterns in small mammals a group in which the energetic and ecological constraints are particularly severe and the diversity of activity patterns is particularly high Following a comparative ecological approach for the first time activity timing is consequently treated in terms of behavioural and evolutionary ecology providing the conceptual framework for chronoecology as a new subdiscipline within behavioural ecology An extensive Appendix gives an introduction to methods of activity modelling and to tools for statistical pattern analysis

**A Bat Man in the Tropics** Theodore Fleming,2003-11-10 The euphoria of discovery is the only motivation many scientists need for studying nature and its secrets Yet euphoria is rarely expressed in scientific publications This book a personal account of more than thirty years of fieldwork by one of the world s leading bat biologists wonderfully conveys the thrill of scientific discovery Theodore Fleming s work to document the lives and ecological



importance of plant visiting bats has taken him to the tropical forests of Panama Costa Rica and Australia and to the lush Sonoran Desert of northwest Mexico and Arizona This book tells the story of his fascinating career and recounts his many adventures in the field Fleming weaves autobiographical reflections together with information on the natural history and ecology of bats and describes many other animals and plants he has encountered His book details the stresses and rewards of life in scientific field camps gives portraits of prominent biologists such as Dan Janzen and Peter Raven and traces the development of modern tropical biology A witness to the destruction and development of many of the forests he has visited throughout his career Fleming makes a passionate plea for the conservation of these wild places

**Evolutionary History of Bats** Gregg F. Gunnell, Nancy B. Simmons, 2012-03-29 This book explores the rich evolutionary history of bats from multiple perspectives presenting some of the most remarkable discoveries involving fossil bats

**American and Australasian Marsupials** Nilton C. Cáceres, Christopher R. Dickman, 2023-06-30 This book focuses on the evolution biogeography systematics taxonomy and ecology of New World and Australasian marsupials greatly expanding the current knowledge base There are roughly 140 species of New World marsupials of which the opossum is the best known Thanks to recent research there is now an increasing amount of understanding about their evolution biogeography systematics ecology and conservation in the Americas especially in South America There are also some 270 marsupial species in the Australasian region many of which have been subject to research only in recent years Based on this information and the authors extensive research this book provides comprehensive insights into the world s marsupials It will appeal to academics and specialized researchers students of zoology paleontology evolutionary biology ecology physiology and conservation as well as interested non experts

**The Ecology of Trees in the Tropical Rain Forest** I. M. Turner, 2001-07-05 Our knowledge of the ecology of tropical rain forest trees is limited with detailed information available for perhaps only a few hundred of the many thousand of species that occur Yet a good understanding of the trees is essential to unravelling the workings of the forest itself This book aims to summarise contemporary understanding of the ecology of tropical rain forest trees The emphasis is on comparative ecology an approach that can help to identify possible adaptive trends and evolutionary constraints and which may also lead to a workable ecological classification for tree species conceptually simplifying the rain forest community and making it more amenable to analysis

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