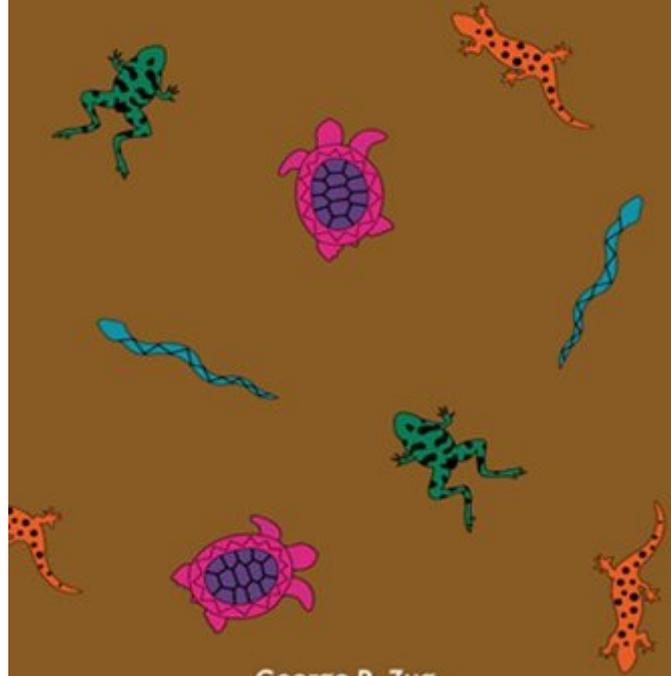


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HERPETOLOGY

AN INTRODUCTORY BIOLOGY
OF AMPHIBIANS AND REPTILES



George R. Zug

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Herpetology-Laurie J. Vitt 2013-03-25 The fourth edition of 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

Herpetology-George R. Zug 2001-06-13 This book is a review of all the myriad aspects of the biology, ecology, evolution, physiology, and behavior of amphibians and reptiles. (Midwest).

Herpetology-Laurie J. Vitt 2008-12-15 This third edition, now fully revised and updated by two of Dr. Zug's colleagues, provides herpetology students and amateur reptile and amphibian keepers with the latest taxonomy and species developments from around the world. Herpetology is a rapidly evolving field, which has contributed to new discoveries in many conceptual areas of biology. The authors build on this progress by updating all chapters with new literature, graphics, and discussions—many of which have changed our thinking. With a new emphasis placed on conservation issues, Herpetology continues to broaden the global coverage from earlier editions, recognizing the burgeoning reptile and amphibian research programs and the plight of many species in all countries and all biomes. New information on the remarkable advances in behavioral, physiological, and phylo-geographical data provide students with the current research they need to advance their education and better prepare their future in herpetology. * The latest taxonomy data * End-of-chapter discussions for

classroom use * 90% new photographs, now all in full color for an enhanced visual representation * Most recent information on the exciting and developing herpetological communities in Australia, Europe, Asia, South and North Americas * New emphasis on conservation issues surrounding herpetology

Herpetology-Laurie J. Vitt 2012-12-02
Herpetology has always been one of the most exciting disciplines of zoology. During the past few years the field has continued to grow, yet it has been plagued by scarcity of comprehensive, up-to-date textbooks containing the most important developments. This timely book fills that void. Through skillful synthesis, the author summarizes the diversity in the biology of living amphibians and reptiles and describes the breadth of current herpetological research. Topics covered include the evolution, classification, development, reproduction, population, and environmental issues surrounding the study of amphibians and reptiles. Designed as an advanced undergraduate textbook, Herpetology is a valuable resource for students, practitioners, and interested amateurs alike. Provides an incisive survey and much needed update of the field Emphasizes the biological diversity among amphibians and reptiles Details the most recent research findings, citing ke

Herpetology: An Introductory Biology of Amphibians and Reptiles-Laurie J Vitt 2013

Hands-on Herpetology-Rebecca L. Schneider 2001 Plentiful, diverse, and readily available, these animals—known in science as “herps”—are also perfect for teaching students about biology, ecology, and conservation. This highly readable resource melds rigorous science content with science research.

Reptiles and Amphibians-David Aguillón-Gutiérrez 2018-07-18 The book Reptiles and Amphibians is a compilation of the current trends in herpetology, focusing on evolution, physiology, monitoring, bioacoustics, threats, and conservation biology. All the chapters present an interesting aspect of the biology of reptiles and amphibians, encompassing different groups of these animals such as frogs, toads, newts,

chelonians and snakes from various parts of the world. Without a doubt, this book will help to keep updated on the current problems that arise in this interesting biological group.

Lizards-Eric R. Pianka 2003 This book provides an overview of the diversity of lizards and their major adaptive features. The authors discuss the latest research findings and provide new hypotheses about lizard diversity.

A Key to Amphibians and Reptiles of the Continental United States and Canada-Robert Powell 1998 A dichotomous key (that is, one that gives the user only two choices at each level of morphological scrutiny), it is designed for use in college-level herpetology or vertebrate biology courses. It will be especially useful as an effective tool for teaching the principles of taxonomy and for introducing students to the systematics of amphibians and reptiles.

Biology of the Reptilia-Carl Gans 1969

Stalking the Plumed Serpent and Other Adventures in Herpetology-D. Bruce Means 2013-02-15 Based on his more than 40 years of field research, Means, an expert on the eastern diamondback rattlesnake, reveals the biological complexity and beauty of the animals he has studied. In Australia, Means searches for the fierce, reputed to be the worlds deadliest terrestrial snake. In Mexico, he stalks the rattlesnake that might have served as the model for the mythical plumed serpent of Mayan art. In Florida, he is chased by cottonmouth moccasins. Through his experiences, Means hopes that readers will gain a new appreciation for animals called herps, or creepy-crawly things.

Amphibians and reptiles-Trevor Beebee 2013-07-01 A comprehensive guide to the native and non-native species of amphibian and reptile found in the British Isles. It covers the biology, ecology, conservation and identification of the British herpetofauna, and provides keys to adults and young.

Exam Prep for: Herpetology ; An Introductory Biology of ...-

Herpetology-F. Harvey Pough 2001 In this revised edition of "Herpetology," the authors provide the only treatment of amphibians and reptiles that integrates information about evolutionary relationships with ecology, behavior, and physiology and provide up-to-date references to the primary literature. **KEY TOPICS**" The book is broken down into four parts and explores these specific questions: what are amphibians and reptiles; how do they work; what do they do; and what are their prospects for survival. **MARKET**" This book is ideal for professionals such as zoo and aquarium curators, animal keepers, reptile and amphibian hobbyists, wildlife managers and conservationists who are looking for an integrated approach to the ecology, behavior, morphology, and physiology of amphibians and reptiles, presented in a phylogenetic and organismal context.

Reptile Biodiversity-Roy W. McDiarmid 2012 "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.

Herpetology-Zug 2006-06-30 This book does not include the textbook. It is meant only as a guide. The notes and highlights on the left follow the outline and order of the textbook.

Encyclopedia of Environmental Science-D.E. Alexander 1999-03-31 A strongly interdisciplinary and wide-ranging survey of the environment of life on Earth: the most authoritative and comprehensive source on environmental science to be collected together in a single volume. Unique in presenting both a basic overview and detailed information on environmental topics. Entries are arranged in an encyclopedic A-Z format and contain extensive

cross-references to related entries, as well as references to primary and secondary literature. Over 370 separate entries prepared by 228 leading experts from 25 countries. Incorporates 25 substantial in-depth treatments of key areas and also includes biographies of leading scientists and environmentalists. Contains a comprehensive subject index and a citation index of all referenced authors. The Encyclopedia of Environmental Science is a multidisciplinary reference work, which crosses many fields of interest and includes a wide variety of scholarly and authoritative articles on mankind's environment. It provides information on the atmosphere, hydrosphere, biosphere and geosphere and is careful to focus on the connections between these realms and the Earth as a whole. Taken as a whole, the Encyclopedia surveys basic environmental science and applied areas of study, and is drawn from the physical sciences, life sciences and social sciences. The 228 authors from 25 different countries, many of whom are the leading authorities in their field, include biologists, ecologists, geographers, geologists, political scientists, soil scientists, hydrologists, climatologists, and representatives of many other disciplines and academic specialties. The work, which is amply referenced and cross-referenced, consists of substantial essays on major topics, medium-sized entries and short definitional entries. The shorter entries include useful biographies of leading scientists and environmentalists. The Encyclopedia will be invaluable to all readers interested in the environment of life on Earth, its past, present and future, and its physical and social dimensions. The text provides a source of well-classified basic information as well as covering the leading theories and important debates in the environmental sciences. In addition, the book also includes assessments of the future prospects for the Earth's environment in the face of pollution, population increases and the accelerating transformation of land, air, water and vegetational systems. The Encyclopedia is unique in presenting both a basic overview and detailed information on environmental topics and is suitable for the general scientific reader and the specialized environmental scientist in academic institutions, research laboratories or private practice.

Outlines and Highlights for Herpetology An Introductory Biology of Amphibians and Reptiles by Zug-Cram101 Textbook Reviews

2006-06 Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompany: 9780127826226 .

Biology of Amphibians-William E. Duellman 1994-02 Now reissued in paperback with an updated preface by the authors, *Biology of Amphibians* remains the standard work in its field.

How Snakes Work-Harvey B. Lillywhite 2014-01-31 Anyone can look at a snake and see a creature unique unto itself, a reptile with a set of zoological and biological traits that are entirely its own. Just looking at this distinct animal raises many scientific questions. With regard to evolution, how did such an animal come to be? How does a snake move, and how do its sense organs differ from that of other reptiles? How does it eat, and how does it reproduce? Essentially, how does a snake "work"? In *How Snakes Work: The Structure, Function and Behavior of the World's Snakes*, leading zoologist Harvey B. Lillywhite has written the definitive scientific guide to the functional biology of snakes. Written for both herpetologists and a more general audience with an interest in the field, *How Snakes Work* features nearly two hundred color images of various species of snakes, used to provide visual examples of biological features explained in the text. Chapter topics include the evolutionary history of the snake, feeding, locomotion, the structure and function of skin, circulation and respiration, sense organs, sound production, temperature and thermoregulation, and reproduction. Containing all the latest research and advances in our biological knowledge of the snake, *How Snakes Work* is an indispensable asset to professional zoologists and enthusiasts alike.

The Field Herping Guide-Mike Pingleton 2019-06-01 Herping is the observation of amphibians and reptiles for recreation or for the production of citizen science—the cold-blooded equivalent of birding. *The Field Herping Guide: Finding Amphibians and Reptiles in the Wild* is

the first book to explore the fun and fascinating world of observing herpetofauna across North America. The natural world holds an amazing diversity of herps, some as close as our own backyards. This guidebook is geared toward new field herpers and uses proven methods from professional herpetologists Mike Pingleton and Joshua Holbrook. The guide addresses basic questions new field herpers have about amphibians and reptiles: What do I need to know about their biology? Where do I look for them, and when? These topics are covered in a straightforward manner, with images, a glossary of essential terms, personal anecdotes, and informational vignettes that support the subject material. TOPICS COVERED INCLUDE: Getting Started Understanding Herp Behavior Finding Herps Catching and Handling Herps Safety in the Field Ethics and Etiquette, Rights and Responsibilities Classification, Taxonomy, and Species Identification Citizen Science and Data Collection Herp Photography Social Aspects of Field Herping A History of Field Herping

Ornithology-Frank B. Gill 2007 *Ornithology* is the classic text for the undergraduate ornithology course, long admired for its evolutionary approach to bird science. The new edition maintains the scope and expertise that made the book so popular while incorporating the latest research and updating the exquisite program of drawings.

Captive Management and Conservation of Amphibians and Reptiles-James Bernard Murphy 1994

The Book of Frogs-Tim Halliday 2016-01-29 With over 7,000 known species, frogs display a stunning array of forms and behaviors. A single gram of the toxin produced by the skin of the Golden Poison Frog can kill 100,000 people. Male Darwin's Frogs carry their tadpoles in their vocal sacs for sixty days before coughing them out into the world. The Wood Frogs of North America freeze every winter, reanimating in the spring from the glucose and urea that prevent cell collapse. *The Book of Frogs* commemorates the diversity and magnificence of all of these creatures, and many more. Six hundred of nature's most fascinating frog species are displayed, with each entry including a distribution map, sketches of the frogs, species

identification, natural history, and conservation status. Life-size color photos show the frogs at their actual size—including the colossal seven-pound Goliath Frog. Accessibly written by expert Tim Halliday and containing the most up-to-date information, *The Book of Frogs* will captivate both veteran researchers and amateur herpetologists. As frogs increasingly make headlines for their troubling worldwide decline, the importance of these fascinating creatures to their ecosystems remains underappreciated. *The Book of Frogs* brings readers face to face with six hundred astonishingly unique and irreplaceable species that display a diverse array of adaptations to habitats that are under threat of destruction throughout the world.

Improbable Destinies-Jonathan B. Losos
2017-08-08 A major new book overturning our assumptions about how evolution works Earth's natural history is full of fascinating instances of convergence: phenomena like eyes and wings and tree-climbing lizards that have evolved independently, multiple times. But evolutionary biologists also point out many examples of contingency, cases where the tiniest change—a random mutation or an ancient butterfly sneeze—caused evolution to take a completely different course. What role does each force really play in the constantly changing natural world? Are the plants and animals that exist today, and we humans ourselves, inevitabilities or evolutionary flukes? And what does that say about life on other planets? Jonathan Losos reveals what the latest breakthroughs in evolutionary biology can tell us about one of the greatest ongoing debates in science. He takes us around the globe to meet the researchers who are solving the deepest mysteries of life on Earth through their work in experimental evolutionary science. Losos himself is one of the leaders in this exciting new field, and he illustrates how experiments with guppies, fruit flies, bacteria, foxes, and field mice, along with his own work with anole lizards on Caribbean islands, are rewinding the tape of life to reveal just how rapid and predictable evolution can be. *Improbable Destinies* will change the way we think and talk about evolution. Losos's insights into natural selection and evolutionary change have far-reaching applications for protecting ecosystems, securing our food supply, and fighting off harmful viruses and bacteria. This compelling narrative offers a new understanding of ourselves and our role in the natural world and

the cosmos.

Reptiles and Amphibians-Mark O'Shea
2010-07-01 A new edition of the clearest, most authoritative guide to reptiles and amphibians you will find From the Tomato Frog to the Cornsnake, discover over 400 species of reptiles and amphibians from around the world. 600 incredible photos, annotations and detailed descriptions highlighting chief characteristics and distinguishing marks will help you to identify different species quickly and easily. Covers everything from anatomy and lifecycle to behaviour and includes maps showing you the geographical distribution of each species. Perfect for nature lovers.

The Book of Snakes-Mark O'Shea 2018-10-22
For millennia, humans have regarded snakes with an exceptional combination of fascination and revulsion. Some people recoil in fear at the very suggestion of these creatures, while others happily keep them as pets. Snakes can convey both beauty and menace in a single tongue flick and so these creatures have held a special place in our cultures. Yet, for as many meanings that we attribute to snakes—from fertility and birth to sin and death—the real-life species represent an even wider array of wonders. *The Book of Snakes* presents 600 species of snakes from around the world, covering nearly one in six of all snake species. It will bring greater understanding of a group of reptiles that have existed for more than 160 million years, and that now inhabit every continent except Antarctica, as well as two of the great oceans. This volume pairs spectacular photos with easy-to-digest text. It is the first book on these creatures that combines a broad, worldwide sample with full-color, life-size accounts. Entries include close-ups of the snake's head and a section of the snake at actual size. The detailed images allow readers to examine the intricate scale patterns and rainbow of colors as well as special features like a cobra's hood or a rattlesnake's rattle. The text is written for laypeople and includes a glossary of frequently used terms. Herpetologists and herpetoculturists alike will delight in this collection, and even those with a more cautious stance on snakes will find themselves drawn in by the wild diversity of the suborder Serpentes.

Biology and Evolution of Crocodylians-

Gordon Grigg 2015-01-15 *Biology and Evolution of Crocodylians* is a comprehensive review of current knowledge about the world's largest and most famous living reptiles. Gordon Grigg's authoritative and accessible text and David Kirshner's stunning interpretive artwork and colour photographs combine expertly in this contemporary celebration of crocodiles, alligators, caimans and gharials. This book showcases the skills and capabilities that allow crocodylians to live how and where they do. It covers the biology and ecology of the extant species, conservation issues, crocodylian-human interaction and the evolutionary history of the group, and includes a vast amount of new information; 25 per cent of 1100 cited publications have appeared since 2007. Richly illustrated with more than 500 colour photographs and black and white illustrations, this book will be a benchmark reference work for crocodylian biologists, herpetologists and vertebrate biologists for years to come.

The Biology of Sea Turtles-Peter L. Lutz 2017-12-06 Sea turtles have existed for millions of years, making them fascinating subjects of study. In the last 20 years, the science of sea turtle biology has expanded at an exponential rate, leading to major advances in many areas. This book synthesizes the results of these advances and focuses on how these endangered marine reptiles operate in, adapt to, and are dependent upon particular features of their marine environment. New technology in data gathering, such as DNA analyses, remote sensing, and physiological monitoring techniques, has led to a much greater understanding of the biology of the sea turtle at all stages of their life history.

Book of Birds-John Faaborg 2020-11-11 In *Book of Birds: Introduction to Ornithology*, John Faaborg, renowned expert on avian ecology and conservation, brings a fresh and accessible sensibility to the study of ornithology. In this beautifully illustrated volume, Faaborg's approachable writing style will engage students and birders alike while introducing them to the study of the evolution, taxonomy, anatomy, physiology, diversity, and behavior of birds. With its unique focus on ecology, the text emphasizes birds' relationships with the environment and other species while showing the amazing diversity of avian life. Faaborg pays special

attention to the roles that competition, community structure, and reproductive behavior play in the astonishingly varied and interesting lives of birds seen around the world. He discusses variations in anatomy, morphology, and behavior; explains why such vast diversity exists; and explores the ways in which different birds can share the same spaces. Artist Claire Faaborg brings the science behind this diversity to life through her unique, hand-drawn artwork throughout the book. Combining vibrant visuals and knowledgeable insights, *Book of Birds* offers readers a firm foundation in the field of ornithology and an invaluable resource for understanding birds from an ecological and evolutionary perspective.

Mammalogy-George A. Feldhamer 2007-09-07 *The Class Mammalia* is amazingly diverse, ranging from whales to marsupials to bats to primates. The more than 5,400 species occupy many habitats, with mammals present on all the continents. They are rare only on Antarctica and a few isolated islands. Mammals present a complex set of conservation and management issues. Some species have become more numerous with the rise of human populations, while others have been extirpated or nearly so—such as the Caribbean monk seal, the thylacine, the Chinese river dolphin, and the Pyrenean ibex. In this new edition of their classic textbook, George A. Feldhamer and his colleagues cover the many aspects of mammalogy. Thoroughly revised and updated, this edition includes treatments of the most recent significant findings in ordinal-level mammalian phylogeny and taxonomy; special topics such as parasites and diseases, conservation, and domesticated mammals; interrelationships between mammalian structure and function; and the latest molecular techniques used to study mammals. Instructors: email mammalogy@press.jhu.edu for a free instructor resource disc containing all 510 illustrations printed in *Mammalogy: Adaptation, Diversity, Ecology*, third edition.

Infectious Diseases and Pathology of Reptiles-Elliott R. Jacobson 2020-08-15 *Infectious Diseases and Pathology of Reptiles, Second Edition* provides definitive information on every aspect of the anatomy, pathophysiology, and differential diagnosis of infectious diseases affecting reptiles. It features stunning high-

quality color photos of normal anatomy and histology, as well as gross, light, and electron microscopic images of infectious diseases of reptiles. Editor Elliott Jacobson draws on his own photography collection, and his wealth of experience spanning over 40 years in the research of infectious diseases and veterinary care of reptiles. Already a comprehensive reference, a new volume covering noninfectious diseases of reptiles has now been added to create a two-volume set, *Diseases and Pathology of Reptiles*. Beginning with a thorough review of the biology, anatomy, and histology of reptiles, Volume 1 covers all major systems and provides the most complete single source for color images of reptile histology, hematology, and cytology. Volume 1 addresses the mechanism of reptile immunology and the response to pathogens, and explains how immunological response is key to differential diagnosis. It provides an overview of electron microscopy, complete with electron micrographs of reptile pathogens, and introduces the necessity of molecular methods for diagnosis. Finally, this volume devotes several chapters to the viral, bacterial, fungal, and parasitic diseases known to reptiles, and methods for isolating these pathogens. With up-to-the-minute data, an array of sharp and high-quality images, and a panel of expert contributors, this new edition of *Infectious Diseases and Pathology of Reptiles* is the definitive resource for veterinary pathologists, zoo or wildlife veterinarians, and the increasing number of private practice veterinarians seeing reptiles kept as exotic pets. It is also ideal reading for veterinary students specializing in exotics, candidates for ACZM accreditation, and private breeders and hobbyists.

Introduction to Population Biology-Dick Neal 2018-11-29 Updated to include two new chapters, a modified Part II structure, more recent empirical examples, and online spreadsheet simulations.

A Guide to the Reptiles and Amphibians of Egypt-Sherif Baha el Din 2006 Reptiles and amphibians are among Egypt's most successful wildlife, found in almost every habitat in the country, from homes to fields and the desert itself. For the first time, *A Guide to the Reptiles and Amphibians of Egypt* provides concise, reliable, and up-to-date information on all of Egypt's principal species, with detailed material

on their taxonomy, identification, natural history, and ecology. Based on fifteen years of fieldwork, this guide is a valuable tool for experts and amateurs alike in the identification, study, and conservation of these fascinating animals. With an easy-to-use key, high-quality maps, and over 100 color illustrations, this field guide covers 110 species including tortoises and turtles, lizards, snakes, and crocodiles found in Egypt. Each entry contains concise information about the species, including English, Latin, and Arabic names; world and Egypt distribution; distinguishing features; habitat and ecology; behavior; and conservation status. Included too are line drawings to illustrate key identification features and differences between species. With a comprehensive bibliography for further research, the guide supplies the accuracy and scientific rigor that scientists look for, while providing an accessible approach for generalists and amateurs. For biologists, nature lovers, and anyone interested in Egypt's rich natural heritage, *A Guide to the Reptiles and Amphibians of Egypt* is an ideal reference tool.

Lizards of the World-Mark O'Shea 2021-03-23 *Lizards of the World* is ultimate book on these fascinating creatures, featuring the all the different types of lizard worldwide. As survivors from the time of the dinosaurs, lizards are scaly, cold-blooded, living fossils—relics from a prehistoric world that remain alive and well in ours. Lizards exert a morbid fascination, in many mythologies they are dark creatures, symbolizing death and misfortune. From chameleons and skinks to geckos and iguanas, *Lizards of the World* brings these creatures firmly into the light, to reveal their extraordinary diversity. Found in almost every type of terrain globally, there are almost 6,500 species of lizard, including lizards with frills, horns, or wings, those that drop their tails, and others that squirt blood from their eyes. Here, the lizard family and subfamily profiles, organized phylogenetically, are illustrated with stunning photography. Each profile includes a population distribution map, a table of essential information, and a fascinating commentary revealing notable characteristics, fresh scientific understanding, and the diversity of species. Written by world-renowned herpetologist Mark O'Shea, *Lizards of the World* is a magnificent showcase of the natural history and beauty of these remarkable reptiles.

The Biology, Husbandry and Health Care of Reptiles-Lowell J. Ackerman 1997

A Natural History of Amphibians-Robert C. Stebbins 1997-01-26 Amphibia, the animal group that includes frogs, toads, salamanders, and caecilians, contains more than 4,500 known living species and new ones are being discovered continuously. This book focuses on the natural history of amphibians worldwide, how interaction with their environment over time has affected their evolutionary processes and what factors will determine their destinies. 37 photos. 52 line illus.

Marine Biodiversity of Costa Rica, Central America-Ingo S. Wehrmann 2008-12-28 Life began in the sea, and even today most of the deep diversity of the planet is marine. This is often forgotten, especially in tropical countries like Costa Rica, renowned for their rain forests and the multitude of life forms found therein. Thus this book focusing on marine diversity of Costa Rica is particularly welcome. How many marine species are there in Costa Rica? The authors report a total of 6,777 species, or 3.5% of the world's total. Yet the vast majority of marine species have yet to be formally described. Recent estimates of the numbers of species on coral reefs range from 1-9 million, so that the true number of marine species in Costa Rica is certainly far higher. In some groups the numbers are likely to be vastly higher because to date they have been so little studied. Only one species of nematode is reported, despite the fact that it has been said that nematodes are the most diverse of all marine groups. In better studied groups such as mollusks and crustaceans, reported numbers are in the thousands, but even in these groups many species remain to be described. Indeed the

task of describing marine species is daunting - if there really are about 9 million marine species and Costa Rica has 3.5% of them, then the total number would be over 300,000. Clearly, so much remains to be done that new approaches are needed. Genetic methods have enormous promise in this regard.

Firefly Encyclopedia of Reptiles and Amphibians-Chris Mattison 2015-10-20 The definitive single-volume reference for the 21st century.

Threatened Amphibians of the World-S. N. Stuart 2008 "Amphibians are facing an extinction crisis, but getting to the facts has been difficult. "Threatened Amphibians of the World" is a visual journey through the first-ever comprehensive assessment of the conservation status of the world's 6,000 known species of frogs, toads, salamanders, and caecilians. All 1,900 species known to be threatened with extinction are covered, including a description of threats to each species and an evaluation of conservation measures in place or needed. Each entry includes a photograph or illustration of the species where available, a distribution map, and detailed information on range, population and habitat and ecology. Introductory chapters present a detailed analysis of the results, complemented by a series of short essays written by many of the world's leading herpetologists. Appendices include annotated lists of lower risk species and a country-by-country listing of threatened amphibians."--pub. desc.