



# [eBooks] Marine Mammals: Evolutionary Biology

Thank you very much for reading **Marine Mammals: Evolutionary Biology**. As you may know, people have look hundreds times for their favorite novels like this Marine Mammals: Evolutionary Biology, but end up in harmful downloads.

Rather than reading a good book with a cup of coffee in the afternoon, instead they cope with some harmful virus inside their desktop computer.

Marine Mammals: Evolutionary Biology is available in our digital library an online access to it is set as public so you can download it instantly.

Our digital library hosts in multiple locations, allowing you to get the most less latency time to download any of our books like this one.

Kindly say, the Marine Mammals: Evolutionary Biology is universally compatible with any devices to read

**Marine Mammals**-Annalisa Berta 2005-12-14 Berta and Sumich have succeeded yet again in creating superior marine reading! This book is a succinct yet comprehensive text devoted to the systematics, evolution, morphology, ecology, physiology, and behavior of marine mammals. The first edition, considered the leading text in the field, is required reading for all marine biologists concerned with marine mammals. Revisions include updates of citations, expansion of nearly every chapter and full color photographs. This title continues the tradition by fully expanding and updating nearly all chapters. Comprehensive, up-to-date coverage of the biology of all marine mammals Provides a phylogenetic framework that integrates phylogeny with behavior and ecology Features chapter summaries, further readings, an appendix, glossary and an extensive bibliography Exciting new color photographs and additional distribution maps

**Marine Mammals**-Annalisa Berta 2006 This book is a succinct yet comprehensive text devoted to the systematics, evolution, morphology, ecology, physiology and behaviour of marine mammals.

**Marine Mammals**-Annalisa Berta 2015-03-20 Marine Mammals:

Evolutionary Biology, Third Edition is a succinct, yet comprehensive text devoted to the systematics, evolution, morphology, ecology, physiology, and behavior of marine mammals. Earlier editions of this valuable work are considered required reading for all marine biologists concerned with marine mammals, and this text continues that tradition of excellence with updated citations and an expansion of nearly every chapter that includes full color photographs and distribution maps. Comprehensive, up-to-date coverage of the biology of all marine mammals Provides a phylogenetic framework that integrates phylogeny with behavior and ecology Features chapter summaries, further readings, an appendix, glossary and an extensive bibliography Exciting new color photographs and additional distribution maps

**Return to the Sea**-Annalisa Berta 2020-03-31 Return to the Sea portrays the life and evolutionary times of marine mammals--from giant whales and sea cows that originated 55 million years ago to the deep-diving elephant seals and clam-eating walruses of modern times. This fascinating account of the origin of various marine-mammal lineages--some extinct, others extant but threatened--is for the nonspecialist. Against a backdrop of geologic time and changing climates and geography, this volume takes evolution as its unifying principle to help us to understand today's diversity of marine mammals and their responses to environmental challenges. Annalisa Berta explains current controversies and explores patterns of change now taking

place, such as shifting food webs and predator-prey relationships, habitat degradation, global warming, and the effects of humans on marine-mammal communities.

**Marine Mammal Biology**-A. Rus Hoelzel 2009-04-01 This book provides a general introduction to the biology of marine mammals, and an overview of the adaptations that have permitted mammals to succeed in the marine environment. Each chapter, written by experts in their field, will provide an up-to-date review and present the major discoveries and innovations in the field. Important technical advances such as satellite telemetry and time-depth-recorders will be described in boxes.

**Encyclopedia of Marine Mammals**-William F. Perrin 2009-02-26 This thorough revision of the classic Encyclopedia of Marine Mammals brings this authoritative book right up-to-date. Articles describe every species in detail, based on the very latest taxonomy, and a host of biological, ecological and sociological aspects relating to marine mammals. The latest information on the biology, ecology, anatomy, behavior and interactions with man is provided by a cast of expert authors - all presented in such detail and clarity to support both marine mammal specialists and the serious naturalist. Fully referenced throughout and with a fresh selection of the best color photographs available, the long-awaited second edition remains at the forefront as the go-to reference on marine mammals. More than 20% NEW MATERIAL includes articles on Climate Change, Pacific White-sided Dolphins, Sociobiology, Habitat Use, Feeding Morphology and more Over 260 articles on the individual species with topics ranging from anatomy and behavior, to conservation, exploitation and the impact of global climate change on marine mammals New color illustrations show every species and document topical articles FROM THE FIRST EDITION "This book is so good...a bargain, full of riches...packed with fascinating up to date information. I recommend it unreservedly it to individuals, students, and researchers, as well as libraries." --Richard M. Laws, MARINE MAMMALS SCIENCE "...establishes a solid and satisfying foundation for current study and future exploration" --Ronald J. Shusterman, SCIENCE

**The Rise of Marine Mammals**-Annalisa Berta 2017-10-02 Setting the stage : rocks, fossils and evolution -- The oldest marine mammals : whales and sea cows -- Later diverging whales : Neoceti -- Aquatic carnivores : pinnipeds and a bear-like carnivoran -- Crown sirenians and their desmostylian relatives -- Aquatic sloths and recent occupants of the sea-sea otters and polar bears -- Diversity changes through time : the influence of climate change and humans

**Marine Mammals of the World: A Comprehensive Guide to Their Identification**-Thomas A. Jefferson 2011-08-29 With coverage on all the marine mammals of the world, authors Jefferson, Webber, and Pitman have created a user-friendly guide to identify marine mammals alive in nature (at sea or on the beach), dead specimens "in hand", and also to identify marine mammals based on features of the skull. This handy guide provides marine biologists and interested lay people with detailed descriptions of diagnostic features, illustrations of external appearance, beautiful photographs, dichotomous keys, and more. Full color illustrations and vivid photographs of every living marine mammal species are incorporated, as well as comprehensible maps showing a range of information. For readers who desire further consultation, authors have included a list of literature references at the end of each species account. For an enhanced understanding of habitation, this guide also includes recognizable geographic forms described separately with colorful paintings and photographs. All of these essential tools provided make Marine Mammals of the World the most detailed and authoritative guide available! \* Contains superb photographs of every species of marine mammal for accurate identification \* Authors' collective experience adds up to 80 years, and have seen nearly all of the species and distinctive geographic forms described in the guide \* Provides the most detailed and anatomically accurate illustrations currently available \* Special emphasis is placed on the identification of species in "problem groups, such as the beaked whales, long-beaked oceanic dolphin, and southern fur seals \* Includes a detailed list of sources for more information at the back of the book.

**Marine Mammal Ecotoxicology**-Maria Cristina Fossi 2018-08-06 Marine

Mammal Ecotoxicology: Impacts of Multiple Stressors on Population Health provides tactics on how to develop a comprehensive methodology for the study of existing threats to marine mammals. By presenting a conservation-biology approach and new and emerging technologies, this work helps provide crucial knowledge on the status of marine mammal populations that not only helps readers understand the ecosystem's health, but also instigate mitigation measures. This volume provides information that helps investigators unravel the relationships between exposure to environmental stressors (e.g., climate change, pollutants, marine litter, pathogens and biotoxins) and a range of endpoints in marine mammal species. The application of robust examination procedures and biochemical, immunological, and molecular techniques, combined with pathological examination and feeding ecology, has led to the development of health assessment methods at the individual and population levels in wild marine mammals. Provides a comprehensive, worldwide update and state of knowledge on current research and topics on marine mammal ecotoxicology Includes coverage of both new and emerging technologies Features a multidisciplinary approach that gives readers a broad, updated overview of the threats facing marine mammals and related conservation measures

**Whales, Dolphins, and Porpoises**-Annalisa Berta 2015-10-15 The eighty-nine cetacean species that swim our seas and rivers are as diverse as they are intelligent and elusive, from the hundred-foot-long, two-hundred-ton blue whale to the lesser-known tucuxi, ginkgo-toothed beaked whale, and diminutive, critically endangered vaquita. The huge distances these highly migratory creatures cover and the depths they dive mean we catch only the merest glimpses of their lives as they break the surface of the water. But thanks to the marriage of science and technology, we are now beginning to understand their anatomy, complex social structures, extraordinary communication abilities, and behavioral patterns. In this beautifully illustrated guide, renowned marine mammalogist Annalisa Berta draws on the contributions of a pod of fellow whale biologists to present the most comprehensive, authoritative overview ever published of these remarkable aquatic mammals. Opening with an accessible rundown of cetacean biology—including the most recent science on feeding, mating, and communication—Whales, Dolphins, and Porpoises then presents species-specific natural history on a range of topics, from anatomy and diet to

distribution and conservation status. Each entry also includes original drawings of the species and its key identifiers, such as fin shape and color, tooth shape, and characteristic markings as they would appear both above and below water—a feature unique to this book. Figures of myth and—as the debate over hunting rages on—figures of conflict since long before the days of Moby-Dick, whales, dolphins, and porpoises are also ecologically important and, in many cases, threatened. Written for general enthusiasts, emergent cetacean fans, and biologists alike, this stunning, urgently needed book will serve as the definitive guide for years to come.

**Marine Mammal Physiology**-Michael A. Castellini 2015-11-18 Suppose you were designing a marine mammal. What would you need to think about to allow it to live in the ocean? How would you keep it warm? What would you design to allow it to dive for very long periods to extreme depths? Where would it find water to drink? How would you minimize the cost of swimming, and how would it find its prey in the deep and dark? These questions and more are examined in detail throughout this book. Marine Mammal Physiology: Requisites for Ocean Living is the first textbook focused on how marine mammals live in the sea from a physiological point of view. It explores the essential aspects of what makes a marine mammal different from terrestrial mammals, beyond just their environment. Unlike many publications and books that cover these species from almost all perspectives, this textbook takes a step back to focus on the physiological and biochemical characteristics that have allowed these mammals as a group to exploit effectively the marine environment that is so hostile to humans. The chapter topics are grouped into major themes: diving and locomotion, nutrition and energetics, reproduction, sensory systems, and environmental interactions. Each chapter is arranged around a common perspective and theme: the big picture challenge and summary and what is known specifically by order. To aid you even further, the authors include a "Toolbox" section in each chapter where they discuss the newest methods for understanding and working on the physiology of marine mammals.

**An Introduction to Marine Mammal Biology and Conservation**-Parsons, ECM 2012-04-11 The charismatic mammals that live in the ocean are a constant source of interest, both for scientists and our society at large.

Downloaded from [stewartbrown.com](http://stewartbrown.com) on May 16, 2021 by guest

Their biology, behavior, and conservation are of utmost importance, as a vast number of species are currently threatened. Intended for the upper-level undergraduate or graduate student within biology, marine biology, or conservation/environmental science, *An Introduction to Marine Mammal Biology and Conservation* provides a broad introduction to marine mammal biology using cutting edge information and student-friendly learning tools. The text begins with chapters on the evolution and classification of marine mammals and their general biology. It moves on to discuss the behavior and ecology of different groups of marine mammals, such as polar bears, otters, and cetaceans. Part 3 dives into many different conservation issues facing marine mammals, as well as discussions on how they can be addressed. Closing chapters provide information on how scientists study marine mammals, how society can enjoy observing the animals while making sure they are preserved, and a word to students looking to pursue a career with marine mammals.

**Marine Mammals**-Randall W. Davis 2019-11-14 This comprehensive book provides new insights into the morphological, metabolic, thermoregulatory, locomotory, diving, sensory, feeding, and sleep adaptations of Cetacea (whales and dolphins), Pinnipedia (seals, sea lions and walrus), Sirenia (manatees and dugongs) and sea otters for an aquatic life. Each chapter reviews the discoveries from previous studies and integrates recent research using new techniques and technology. Readers will gain an understanding of the remarkable adaptations that enable marine mammals to spend all or most of their lives at sea, often while hunting prey at depth.

**Sensory Evolution on the Threshold**-J. G. M. Thewissen 2008-02-04 Ranging from crocodiles and penguins to seals and whales, this synthesis explores the function and evolution of sensory systems in animals whose ancestors lived on land. It explores the dramatic transformation of smell, taste, sight, hearing, and balance that occurred as lineages of reptiles, birds, and mammals returned to aquatic environments.

**News Media and Power in Russia**-Olessia Koltsova 2006-09-27 The end of

communist rule in the Soviet Union brought with it a brave new world of media and commerce. Formerly state-owned enterprises were transformed, often through private ownership, and new corporations sprung up overnight to take advantage of the new atmosphere of freedom. Until now, most research on media and news production in Russia has focused on the scope of government control and comparisons with the communist era. However, extra-governmental controls and the challenges of operating in a newly capitalist environment have been just as important - if not more so - in the formation of the new media climate. Filling the gap in the literature, this book examines the various agents who 'make' the news, and discusses the fierce struggle among the various agents of power involved. Drawing on existing theories and scholarship, the book provides a wealth of detail on the actual daily practices of news production in Russia. Original research is combined with compelling first-hand accounts of news production and dissemination to provide an incisive look at the issues and power structures Russian journalists face on a daily basis.

**Marine Mammals**-Peter G.H. Evans 2012-12-06 Interest in marine mammals has increased dramatically in the last few decades, as evidenced by the number of books, scientific papers, and conferences devoted to these animals. Nowadays, a conference on marine mammals can attract between one and two thousand scientists from around the world. This upsurge of interest has resulted in a body of knowledge which, in many cases, has identified major conservation problems facing particular species. At the same time, this knowledge and the associated activities of environmental organisations have served to introduce marine mammals to a receptive public, to the extent that they are now perceived by many as the living icons of biodiversity conservation. Much of the impetus for the current interest in marine mammal conservation comes from "Save the Whale" campaigns started in the 1960s by environmental groups around the world, in response to declining whale populations after over-exploitation by humans. This public pressure led to an international moratorium on whaling recommended in 1972 by the United Nations Conference on the Human Environment in Stockholm, Sweden, and eventually adopted by the International Whaling Commission ten years later. This moratorium largely holds sway to this day, and further protective measures have included the delimitation of extensive areas of the Indian Ocean (1979) and Southern

Downloaded from [stewartbrown.com](http://stewartbrown.com) on May 16, 2021 by guest

Ocean (1994) as whale sanctuaries.

**Semi-aquatic Mammals**-Glynnis A. Hood 2020-10-13 Her analysis takes readers to the haunts of intriguing semi-aquatic mammals from around the world,; introducing the "paradoxical platypus, an Australian egg-laying monotreme that detects prey through electroreception; venturing into the swamps and mangroves of Southeast Asia, where fishing cats wave their paws above the water's surface to lure prey; trawling the streams and lakes of South America, where the female water opossum uses its backward-facing pouch to keep her babies warm during deep dives; spending time with species that engineer freshwater habitats into more productive and complex systems, including North American beavers and Africa's common hippopotamus. Featuring award-winning artist Meaghan Brierley's stunning illustrations throughout, *Semi-aquatic Mammals* is an unparalleled reference on some of the world's most tenacious and fascinating mammals.

**I, Mammal**-Liam Drew 2017-11-02 Humans are mammals. Most of us appreciate that at some level. But what does it mean for us to have more in common with a horse and an elephant than we do with a parrot, snake or frog? After a misdirected football left new father Liam Drew clutching a uniquely mammalian part of his anatomy, he decided to find out more. Considering himself as a mammal first and a human second, Liam delves into ancient biological history to understand what it means to be mammalian. In his humorous and engaging style, Liam explores the different characteristics that distinguish mammals from other types of animals. He charts the evolution of milk, warm blood and burgeoning brains, and examines the emergence of sophisticated teeth, exquisite ears, and elaborate reproductive biology, plus a host of other mammalian innovations. Entwined are tales of zoological peculiarities and reflections on how being a mammal has shaped the author's life. *I, Mammal* is a history of mammals and their ancestors and of how science came to grasp mammalian evolution. And in celebrating our mammalian-ness, Liam Drew binds us a little more tightly to the five and a half thousand other species of mammal on this planet and reveals the deep roots of many traits humans hold dear.

**Anatomy of Dolphins**-Bruno Cozzi 2016-09-21 *The Anatomy of Dolphins: Insights into Body Structure and Function* is a precise, detailed, fully illustrated, descriptive, and functionally oriented text on the anatomy and morphology of dolphins. It focuses on a number of delphinid species, with keynotes on important dolphin-like genera, such as the harbor porpoise. It also serves as a useful complement for expanding trends and emphases in molecular biology and genetics. The authors share their life-long expertise on marine mammals in various disciplines. Written as a team rather than being prepared as a collection of separate contributions, the result is a uniform and comprehensive style, giving each of the different topics appropriate space. Many color figures, which use the authors' access to wide collections of unique dolphin and whale material, round out this exceptional offering to the field. Includes high-quality illustrations, drawings, halftone artwork, photographic documentations, microphotos, and tables detailing dolphin anatomy, function, and morphology. Facilitates education and training of students of all basic research and applied sciences dedicated to marine biology and the medical care of marine mammals. Brings together the current knowledge and information on this topic, including those in obscure past or non-English publications, or scattered in short chapters in volumes. Covers a number of delphinid species and serves as a useful complement for expanding trends in molecular biology and genetics.

**Cetacean Paleobiology**-Felix G. Marx 2016-05-31 Cetaceans (whales, dolphins, and porpoises) have fascinated and bewildered humans throughout history. Their mammalian affinities have been long recognized, but exactly which group of terrestrial mammals they descend from has, until recently, remained in the dark. Recent decades have produced a flurry of new fossil cetaceans, extending their fossil history to over 50 million years ago. Along with new insights from genetics and developmental studies, these discoveries have helped to clarify the place of cetaceans among mammals, and enriched our understanding of their unique adaptations for feeding, locomotion and sensory systems. Their continuously improving fossil record and successive transformation into highly specialized marine mammals have made cetaceans a textbook case of evolution - as iconic in its own way as the origin of birds from dinosaurs. This book aims to summarize our current understanding of cetacean evolution for the serious student and

Downloaded from [stewartbrown.com](http://stewartbrown.com) on May 16, 2021 by guest

interested amateur using photographs, drawings, charts and illustrations.

**Tropical Pinnipeds**-Juan J. Alava 2017-07-12 Pinnipeds are a fascinating group of marine mammals that play a crucial role as apex predators and sentinels of the functioning and health of marine ecosystems. They are found in the most extreme environments from the Polar regions to the tropics. Pinnipeds are comprised of about 34 species, and of those at least 25% live permanently in tropical zones. This book reviews and updates current research on the biology, marine ecology, bio-monitoring, and conservation of tropical pinniped populations, including their behavior, anthropogenic stressors, and health. It also looks at challenges to be faced for the conservation of tropical pinnipeds, many of which are threatened species.

**The Walking Whales**-J. G. M. Hans Thewissen 2014-11-13 Hans Thewissen, a leading researcher in the field of whale paleontology and anatomy, gives a sweeping first-person account of the discoveries that brought to light the early fossil record of whales. As evidenced in the record, whales evolved from herbivorous forest-dwelling ancestors that resembled tiny deer to carnivorous monsters stalking lakes and rivers and to serpentlike denizens of the coast. Thewissen reports on his discoveries in the wilds of India and Pakistan, weaving a narrative that reveals the day-to-day adventures of fossil collection, enriching it with local flavors from South Asian culture and society. The reader senses the excitement of the digs as well as the rigors faced by scientific researchers, for whom each new insight gives rise to even more questions, and for whom at times the logistics of just staying alive may trump all science. In his search for an understanding of how modern whales live their lives, Thewissen also journeys to Japan and Alaska to study whales and wild dolphins. He finds answers to his questions about fossils by studying the anatomy of otters and porpoises and examining whale embryos under the microscope. In the book's final chapter, Thewissen argues for approaching whale evolution with the most powerful tools we have and for combining all the fields of science in pursuit of knowledge.

**Encyclopedia of Evolutionary Biology**- 2016-04-14 Encyclopedia of Evolutionary Biology is the definitive go-to reference in the field of evolutionary biology. It provides a fully comprehensive review of the field in an easy to search structure. Under the collective leadership of fifteen distinguished section editors, it is comprised of articles written by leading experts in the field, providing a full review of the current status of each topic. The articles are up-to-date and fully illustrated with in-text references that allow readers to easily access primary literature. While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology, they are also intended to be accessible to both advanced undergraduate and graduate students. Broad topics include the history of evolutionary biology, population genetics, quantitative genetics; speciation, life history evolution, evolution of sex and mating systems, evolutionary biogeography, evolutionary developmental biology, molecular and genome evolution, coevolution, phylogenetic methods, microbial evolution, diversification of plants and fungi, diversification of animals, and applied evolution. Presents fully comprehensive content, allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables, illustrations, and multimedia features to assist with the comprehension process

**Alpha, Beta, Gamma... Dead**-Betty Rowlands 2008 When an eminent biblical scholar and archaeologist is found dead and an ancient and priceless document in his possession is discovered to be missing, Sukey Reynolds follows a hunch to track the murderer.

**The Evolutionary Biology of Hearing**-Douglas B. Webster 2012-12-06 To develop a science of hearing that is intellectually satisfying we must first integrate the diverse, Marine Laboratory in Sarasota, Florida, May - extensive body of comparative research into an 24, 1990. The invited participants came from the evolutionary context. The need for this integrative fields of comparative anatomy, physiology, biophysics, and a conceptual framework in which it

could ics, animal behavior, psychophysics, evolutionary be structured, were demonstrated in landmark biology, ontogeny, and paleontology. Before the papers by van Bergeijk in 1967 and Wever in 1974. conference, preliminary manuscripts of the invited However, not since 1965, when the American papers were distributed to all participants. This facilitated - even encouraged - discussions through Society of Zoologists sponsored an evolutionary conference entitled "The Vertebrate Ear;" has there out the conference which could be called, among other things, "lively. " The preview of papers, along been a group effort to assemble and organize our current knowledge on the evolutionary-as with the free exchange of information and opinion, opposed to comparative-biology of hearing. also helped improve the quality and consistency of In the quarter century since that conference the final manuscripts included in this volume. there have been major changes in evolutionary In addition to the invited papers, several studies concepts (e. g. , punctuated equilibrium), in sys were presented as posters during evening sessions.

**The Cultural Lives of Whales and Dolphins**-Hal Whitehead 2014-12-04 Drawing on their own research as well as scientific literature including evolutionary biology, animal behavior, ecology, anthropology, psychology and neuroscience, two cetacean biologists submerge themselves in the unique environment in which whales and dolphins live.

**Low-Frequency Sound and Marine Mammals**-National Research Council 1994-02-01 This volume reviews the current state of knowledge regarding the effects of low-frequency sound on marine mammals and makes recommendations for research. In addition, the book describes current federal regulations prescribed under the Marine Mammal Protection Act that govern the taking of marine mammals by scientific research activities, and it recommends changes to expedite the regulatory process dealing with scientific research activities.

**An Introduction to the Biology of Marine Life**-James L. Sumich 1996 The new edition of An Introduction to the Biology of Marine Life is designed

to reach your introductory students with effective and interesting learning tools. Its design and content are focused on capturing the attention of your students-- and focused on helping you teach. In the sixth edition, author James Sumich has maintained the text's readability and balanced approach, while incorporating several exciting new features:

**Marine Mammal Populations and Ocean Noise**-National Research Council 2005-02-24 Attention has been drawn to the subject of how ocean noise affects marine mammals by a series of marine mammal strandings, lawsuits, and legislative hearings, and most recently, the report from the U.S. Commission on Ocean Policy. One way to assess the impact of ocean noise is to consider whether it causes changes in animal behavior that are "biologically significant," that is, those that affect an animal's ability to grow, survive, and reproduce. This report offers a conceptual model designed to clarify which marine mammal behaviors are biologically significant for conservation purposes. The report is intended to help scientists and policymakers interpret provisions of the federal Marine Mammal Protection Act.

**Marine Mammal Sensory Systems**-Ronald A. Kastelein 2012-12-06 This book is a collection of original research papers given at a symposium entitled "Sensory Systems and Behavior of Aquatic Mammals", hosted by the USSR Academy of Sciences. The meeting was held in Moscow from 16 to 25 October, 1991 and involved nearly 100 scientists from around the world. The major headings of the book correspond to the session topics at the symposium. This meeting was not the first dedicated to problems of sensory systems in aquatic mammals. Experts in this field met several times previously to discuss important problems of sensory functions in echolocating animals. symposia on biosonar systems were held in Frascati, Italy in 1966, then in Jersey, France in 1978, and in Helsingor, Denmark in 1986. Papers presented at these meetings were pUblished in books that advanced significantly the understanding of sensory systems (Busnel and Fish, 1980; Nachtigall and Moore, 1988). Initially, echolocating bats were the main subjects of consideration. However, studies on echolocating aquatic mammals, whales and dolphins, increased from one meeting to the next. Indeed, aquatic mammals are of exceptional interest for studying the

Downloaded from [stewartbrown.com](http://stewartbrown.com) on May 16, 2021 by guest

adaptation of sensory functions for echolocation in specific aquatic environments. As a natural consequence of these developments, the 1989 symposium in Rome was devoted specifically to the sensory systems of cetaceans (Thomas and Kastelein, 1990). This symposium was held within the Fifth International Theriological Congress and was attended by many scientists.

**Marine Mammals and Noise**-W. John Richardson 2013-10-22 Many marine mammals communicate by emitting sounds that pass through water. Such sounds can be received across great distances and can influence the behavior of these undersea creatures. In the past few decades, the oceans have become increasingly noisy, as underwater sounds from propellers, sonars, and other human activities make it difficult for marine mammals to communicate. This book discusses, among many other topics, just how well marine mammals hear, how noisy the oceans have become, and what effects these new sounds have on marine mammals. The baseline of ambient noise, the sounds produced by machines and mammals, the sensitivity of marine mammal hearing, and the reactions of marine mammals are also examined. An essential addition to any marine biologist's library, *Marine Mammals and Noise* will be especially appealing to marine mammalogists, researchers, policy makers and regulators, and marine biologists and oceanographers using sound in their research.

**The Atlantic Walrus**-Xenia Weber 2020-06 *The Atlantic Walrus: Biological, Historical, and Indigenous Insights into Species-Human Interactions* addresses the key dimensions of walrus and human interactions across the North Atlantic and Arctic regions over the past 4,000 years. It establishes a new synthesis of historical ecology and biology, focusing on the effects of climate change on the species' population and the different phases of human impacts. Sections cover genetics and behavior, delving into evolution and purposes, and detail prehistoric, pristine walrus populations affected by Indigenous and Viking hunting and usage. The book emphasizes the importance of molecular advances and biological research and how to conserve remaining populations. This is an ideal resource for marine biologists and conservationists who require the most updated and accurate source of biological and historical information on the species.

Paleoecologists will also find this useful for the evolution of the Atlantic walrus and how the species has needed to adapt to the environment and neighboring humans to survive. Edited and written by leading international researchers and experts on the Atlantic walrus (*Odobenus rosmarus rosmarus*) Features integrative case studies on the effects of human interaction, including hunting, cultural significance and habitat destruction Details the latest marine mammal research, including drone technology applications for tracking walrus populations Assesses historical management of the species vs. implemented and future efforts for conservation due to human interference and climate change

**Biological Resources and Migration**-Dietrich Werner 2013-04-17 Migration of humans and animals, plants and even microbes is a ubiquitous global phenomenon. This book covers all forms of migration - plant, microbial, animal or human - and their mutual impact in detail. The contributions in this book are the result of an innovative International Conference and OECD Workshop aimed at triggering off the interdisciplinary dialogue between natural scientists and socioeconomists.

### **Diving Physiology of Marine Mammals and Seabirds-**

**Evolution of Tertiary Mammals of North America: Volume 1, Terrestrial Carnivores, Ungulates, and Ungulate Like Mammals**-Christine M. Janis 1998-05-28 This book is designed as a source and reference for people interested in the history and fossil record of North American tertiary mammals. Each chapter covers a different family or order, and includes information on anatomical features, systematics, the distribution of the genera and species at different fossil localities, and a discussion of their paleobiology. Many of these groups have never been covered in this fashion before.

**Looking for Marla**-Paloma Medina 2019-07-22 A book about sex and gender diversity in nature.

**The Bottlenose Dolphin**-Stephen Leatherwood 2012-12-02 Because of their exposure in marine parks, movies, and television as well as their presence in tropical and warm-temperature waters around the world, bottlenose dolphins are among the most familiar of marine mammals. Since they are relatively easy to obtain and they thrive in captivity, these dolphins have been used in a great variety of studies. Work with the bottlenose has provided insight into the sensory mechanisms, communication systems, energetics, reproduction, anatomy, and other aspects of cetacean biology. This volume presents the most recent biological and behavioral discoveries of bottlenose dolphins from different regions and compares bottlenose dolphins as a group with other species of animals.

**Biology of Marine Mammals**-John E. Reynolds 2013-08-06 Taking an integrated approach to the biology of marine carnivores, cetaceans, and sirenians, twenty-two prominent researchers compare marine mammals with one another and with terrestrial mammals, providing a framework for fundamental biological and ecological concepts. They describe functional morphology, sensory systems, energetics, reproduction, communication and cognition, behavior, distribution, population biology, and feeding ecology. They also detail the physiological adaptations—for such activities and processes as diving, thermo-regulation, osmoregulation, and orientation—that enable marine mammals to exploit their aquatic environment.

**Passive Acoustic Monitoring of Cetaceans**-Walter M. X. Zimmer 2011-04-21 Passive acoustic monitoring is increasingly used by the scientific community to study, survey and census marine mammals, especially cetaceans, many of which are easier to hear than to see. PAM is also used to support efforts to mitigate potential negative effects of human activities such as ship traffic, military and civilian sonar and offshore exploration. Walter Zimmer provides an integrated approach to PAM, combining physical principles, discussion of technical tools and application-oriented concepts of operations. Additionally, relevant information and tools

necessary to assess existing and future PAM systems are presented, with Matlab code used to generate figures and results so readers can reproduce data and modify code to analyse the impact of changes. This allows the principles to be studied whilst discovering potential difficulties and side effects. Aimed at graduate students and researchers, the book provides all information and tools necessary to gain a comprehensive understanding of this interdisciplinary subject.

**Atlas of the Anatomy of Dolphins and Whales**-Stefan Huggenberger 2018-11-20 Atlas of the Anatomy of Dolphins and Whales is a detailed, fully illustrated atlas on the anatomy and morphology of toothed and whalebone whales. The book provides basic knowledge on anatomical structures, in particular, soft tissues, and functions as a standalone reference work for dissecting rooms and labs, and for those sampling stranded and by-caught dolphins in the field. As a companion and supplement to Anatomy of Dolphins: Insights into Body Structure and Function, this atlas will be of great interest to the scientific community, including veterinarians and biologists, as a book of reference. With a modern approach to dolphin anatomy and morphology, this atlas provides the extensive knowledge necessary to practitioners and theoretical scientists such as evolutionary biologists. The conceptual clarity, precision, and comprehensive and updated display of the topographical anatomy of the body of cetaceans in the atlas support and illustrate the authors' related work, serving as a comprehensive reference for those who are more specifically interested in the details of the anatomy and morphology of porpoises, dolphins and whales. Offers a single reference source and useful teaching tool for visualizing the integrated body and its components Functions as a helpful method for demonstrating the animal's anatomy prior to dissection, and for teaching topographic and comparative anatomy Provides a unique and authoritative resource that explicitly relates the gross and microscopic anatomy of cetacean organs and tissues The prenatal development of dolphins is largely achieved