

Marine Mammals Evolutionary Biology

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Marine Mammal Ecology and Conservation - Ian L. Boyd 2010-08-12
Much of our knowledge about marine mammals is derived from a long-term and dedicated research effort that is evolving rapidly due to the introduction and invention of new methods. This book reflects the inventiveness of marine researchers as they try to find ways around the problems presented to them by these unusual and challenging animals.
The West Indian Manatee (Trichechus Manatus) - Sandra L. Husar 1977

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.

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.
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.

Ethology and Behavioral Ecology of Sea Otters and Polar Bears - Randall W. Davis

Sea otters and polar bears are carnivorous marine mammals that still resemble their terrestrial ancestors. Compared with Cetacea (whales and dolphins), Sirenia (dugongs and manatees), and Pinnipedia (seals, sea lions, and walrus), they are less adapted for an aquatic life and the most recently evolved among marine mammals. Sea otters are amphibious but seldom come ashore, and polar bears primarily occur on sea ice or along the shore. When at sea, both species spend most of their time swimming at the surface or making short, shallow dives when foraging or pursuing prey. Indeed, polar bears rarely pursue seals in water. Nevertheless, polar bears are powerful swimmers and will stalk seals from the water. As with many other large carnivores, they are solitary hunters. Although sea otters are gregarious and form aggregations at sea called rafts, they are primarily asocial. Except during mating, the principal interaction among sea otters occurs between a female and offspring during the six-month dependency period. In large carnivores (e.g., wolves and lions) that feed on ungulates, sociality and cooperation are favored because of the need to capture large prey and defend carcasses. Polar bears, which are the largest terrestrial carnivore, are solitary hunters of seals and are neither gregarious nor social. Males and females briefly associate during courtship and mating. During this time, males aggressively compete for females. At other times, males generally avoid each other except for aggregations of males that form while summering on land, and females with cubs avoid males, which are known for infanticide. As with sea otters, the interaction of polar bears outside of mating occurs between a female and her offspring during the 2-3 year dependency period. This interaction is critically important when altricial cubs are born in the winter den. This book provides new insight into the ethology and behavioral ecology of sea otters and polar bears. Each chapter reviews the discoveries of previous studies and integrates recent research using new techniques and technology. The authors also address historic and current anthropogenic challenges for their survival as climate change alters entire marine ecosystems.

The Empty Ocean - Richard Ellis 2013-03-19

In *The Empty Ocean*, acclaimed author and artist Richard Ellis tells the story of our continued plunder of life in the sea and weighs the chances for its recovery. Through fascinating portraits of a wide array of creatures, he introduces us to the many forms of sea life that humans have fished, hunted, and collected over the centuries, from charismatic whales and dolphins to the lowly menhaden, from sea turtles to cod, tuna, and coral. Rich in history, anecdote, and surprising fact, Richard Ellis's descriptions bring to life the natural history of the various species, the threats they face, and the losses they have suffered. Killing has occurred on a truly stunning scale, with extinction all too often the result, leaving a once-teeming ocean greatly depleted. But the author also finds instances of hope and resilience, of species that have begun to make remarkable comebacks when given the opportunity. Written with passion and grace, and illustrated with Richard Ellis's own drawings, *The Empty Ocean* brings to a wide audience a compelling view of the damage we have caused to life in the sea and what we can do about it. "

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.

Ecology and Conservation of Pinnipeds in Latin America - Gisela Heckel 2021-03-28

Pinnipeds are marine mammals that include eared seals, true seals, and walrus. This book presents detailed reviews on the ecology and conservation of 10 pinniped species along the coasts and islands in Latin America, from Mexico to Chile and Argentina. Topics covered include their population dynamics, trophic ecology, reproduction, and behavior. In addition, the book addresses major conservation issues regarding climate change, interaction with fisheries, ecotourism, and other human activities.

Horns, Tusks, and Flippers - Donald R. Prothero 2002

Since the extinction of the dinosaurs, hoofed mammals have been the planet's dominant herbivores. Native to all continents except Australia and Antarctica, recent paleontological and biological discoveries have deepened understanding of their evolution. This text reveals their evolutionary history.

An Introduction to Marine Mammal Biology and Conservation - Edward C. M. Parsons 2013

The charismatic mammals that live in the ocean are a constant source of interest, both for scientists and our society at large. 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.

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.

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.

Effects of Noise on Marine Mammals - William John Richardson 1991

International Marine Mammal Law - Nikolas Sellheim 2020-01-28

International Marine Mammal Law is a comprehensive, introductory volume on the legal regimes governing the conservation and utilisation of

marine mammals. Written as a textbook, it provides basic overviews of international conservation law, which enable the reader to understand the greater implications of governance of a specific group of species. Paired with biological information on some marine mammal species, the international regimes for whales, seals and polar bears are explored — either as part of global regimes of international environmental governance or as regimes that were specifically designed for them. The book concludes with outlooks on the future of international marine mammal law, particularly in light of Japan's withdrawal from the International Convention for the Regulation of Whaling in July 2019.

Feeding in Vertebrates - Vincent Bels 2019-04-23

This book provides students and researchers with reviews of biological questions related to the evolution of feeding by vertebrates in aquatic and terrestrial environments. Based on recent technical developments and novel conceptual approaches, the book covers functional questions on trophic behavior in nearly all vertebrate groups including jawless fishes. The book describes mechanisms and theories for understanding the relationships between feeding structure and feeding behavior. Finally, the book demonstrates the importance of adopting an integrative approach to the trophic system in order to understand evolutionary mechanisms across the biodiversity of vertebrates.

The Emergence of Whales - J.G.M. Thewissen 2013-11-11

Research in whale origins is now in an explosive phase, with a cascade of discoveries adding to our understanding of the evolutionary pattern and a suite of new techniques being applied to address new questions. The objective of this volume is to provide a snapshot of this explosion. The volume paints the scene with a broad brush. Taken together the chapters clearly indicate that cetacean origins is a field that is dynamic, multidisciplinary, and that the end of the explosive phase is not in sight.

Oceanology - DK 2020-09-29

Dive into this uniquely elegant visual exploration of the sea. An informative and utterly beautiful introduction to marine life and the ocean environment, *Oceanology* brings the riches of the underwater world onto the printed page. Astounding photography reveals an abundance of life, from microscopic plankton to great whales, seaweed to starfish. Published in association with the Smithsonian Institution, the book explores every corner of the oceans, from coral reefs and mangrove swamps to deep ocean trenches. Along the way, and with the help of clear, simple illustrations, it explains how life has adapted to the marine environment, revealing for example how a stonefish delivers its lethal venom and how a sponge sustains itself by sifting food from passing currents. It also examines the physical forces and processes that shape the oceans, from global circulation systems and tides to undersea volcanoes and tsunamis. To most of us, the marine world is out of reach. But with the help of photography and the latest technology, *Oceanology* brings us up close to animals, plants, and other living things that inhabit a fantastic and almost incomprehensibly beautiful other dimension.

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 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 Mammal Biology: An Evolutionary Approach - Pooja Pandya 2018-12

Marine Mammal Biology: An Evolutionary Approach considers various aspects of Marine Mammal Biology including an extensive historical

overview of Marine Mammal Biology and related issues. It includes definitions of understanding the elements of Marine Evolution and introduction to the evolution of Marine Mammals. Provides the reader with insights into the development of its history, so as to understand the Marine Mammal Biology and other marine mammals in detail to understand the concept from a broader perspective.

Whales, Dolphins, and Other Marine Mammals of the World - Hadoram Shirihai 2006

Presents full-color photographs and illustrations of a wide variety of whales, dolphins, and other marine mammals around the world; and contains information on their habitats, physical characteristics, and behaviors.

Marine Mammals and Fisheries - J. R. Beddington 1985-01-01

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 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 - 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 Ocean (1994) as whale sanctuaries.

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 Mammal Ecotoxicology - Maria Cristina Fossi 2018-09-20

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

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 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

Primate Anatomy - Friderun Ankel-Simons 2010-07-27

This book is unlike any other work on primates: it systematically reviews the biology of all living primates, including humans. It describes their bio-geographical information and provides crucial data pertaining to their body size, fur coloration external distinguishing features, habitat and basic life strategies. Now in its third edition, *Primate Anatomy* discusses species that are new to science since the last edition with details concerning anatomical features among primates that were re-discovered. New research in molecular primatology is also included due to recent relevant findings in molecular biology in accordance with new technology. The basics of biological taxonomy are introduced, along with photographs of all major groups. Important new and controversial issues make this edition key for every primatologists, anthropologist, and anatomist. Offers up-to-date reviews of molecular primatology and primate genomics Concentrates on living primates and their overall biology Discusses the genetic connection of function where known Introduces primate genomics for the first time in a textbook Provides instructive and comprehensive review tables Includes many unique, novel and easily understandable illustrations

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 walrus 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.

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.

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.

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.

Marine Mammal Observer and Passive Acoustic Monitoring Handbook - Victoria Todd 2015-03-18

Marine Mammal Observer and Passive Acoustic Monitoring Handbook is the ultimate instruction manual for mitigation measures to minimise man-made acoustical and physical disturbances to marine mammals from

industrial and defence activities.

Mammals - Thomas Stainforth Kemp 2017

Relative newcomers within the story of evolution, mammals are hugely successful and have colonized land, water, and air. Tom Kemp discusses the great diversity of mammalian species, and looks at how their very disparate characteristics, physiologies, and behaviours are all largely driven by one unifying factor: endothermy, or warm-bloodedness.

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.

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.

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.

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 interested amateur using photographs, drawings, charts and illustrations.

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