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""...deals with the evolution of marine mammals in detail, and the remainder of the book is a good, solid guide to their complex biology. That said, Marine mammals: evolutionary biology will certainly be popular with students, because it is clearly

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and concisely written, and intelligently illustrated." - in CAMBRIDGE UNIVERSITY PRESS

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She is an evolutionary biologist who for the last 30 years has been studying the anatomy, evolution and systematics of fossil and living marine mammals, especially pinnipeds and whales. She is a...

Marine Mammals: Evolutionary Biology - Annalisa Berta ...

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Williams, a professor of ecology and evolutionary biology at UC Santa Cruz, has

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have been described, as well as additional genera, but not all of these new taxa have been widely accepted.

Evolution of marine mammals: Back to the sea after 300 ...

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The Alter Lab - Marine Evolutionary and Ecological Genetics

Marine Mammal Biology: An Evolutionary Approach. A. Rus Hoelzel. John Wiley & Sons, Apr 1, 2009 - Science - 448 pages. 1 Review. 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 ...

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Marine Mammals: Evolutionary Biology by Annalisa Berta

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She is an evolutionary biologist who for the last 30 years has been studying the

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anatomy, evolution and systematics of fossil and living marine mammals, especially pinnipeds and whales. She is a past President of the Society of Vertebrate Paleontology and former Senior Editor of the Journal of Vertebrate Paleontology and Associate Editor of Marine Mammal Science.

Marine Mammals - 2nd Edition

Marine mammals represent a variety of ecological roles, including herbivores (manatees), filter feeders (baleen whales), and top predators (killer whales). Mammals evolved on land around 160 million years ago.

Marine mammals | National Oceanic and Atmospheric ...

General Works. Berta, A., and J. L. Sumich. 1999. Marine mammals: evolutionary biology. Academic Pr., New York. 494 pp. Garner, G. W., S. C. Amstrup, J. L. Laake, B ...

Bibliography of Marine Mammals

The Marine Vertebrate Biology cluster is one of the largest in the institute and includes researchers who study a broad range of marine mammals and birds including dolphins, whales, sea otters, seals, sea lions, peregrine falcons, eagles, and a variety of marine birds.

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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

This book is a succinct yet comprehensive text devoted to the systematics, evolution, morphology, ecology, physiology and behaviour of marine mammals.

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

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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 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.

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.

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Important technical advances such as satellite telemetry and time-depth-recorders will be described in boxes.

Mammalogists, paleontologists, and marine scientists will find Berta's insights absorbing, while developmental and molecular biologists, geneticists, and ecologists exploring integrative research approaches will benefit from her fresh perspective.

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

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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.

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

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libraries." --Richard M. Laws, MARINE MAMMALS SCIENCE "...establishes a solid and satisfying foundation for current study and future exploration" --Ronald J. Shusterman, SCIENCE

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.

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

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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.

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