

## Whale Female Anatomy

### Female Humpback Whale

**Female Humpback Whale (megaptera Novaeangliae Reproductive Class and Male-female Interactions During the Breeding Season**-Meagan E. Jones 2010 This study examined whether female reproductive class (i.e., presence or absence of a calf) in humpback whales (Megaptera novaeangliae) affects female behavior and male-female interactions on the Hawaiian breeding grounds. From 2003-2008, 295 female-calf groups (with or without a male escort) and 256 female no-calf groups (with a male) were observed. Forty-one female no-calf groups were confirmed male-female pairs by genetic sexing or photo-identification. Focal follows of 36 male-female pairs and 50 female-calf groups (29 escorted and 21 unescorted female-calf groups) were analyzed for time budget and movement estimates. Relative fluke size (fluke photogrammetry, n=30) and sighting histories (n=9) were used to estimate age-class for 39 individuals within focal follows. Escorted female-calf groups spent significantly more time traveling and less time resting than male-female pairs and unescorted female-calf groups. Indeed unescorted female-calf groups had time budgets more similar to male-female pairs than female-calf groups with a male. Male behavior and relative body size also affected female behavior and movement patterns: lone males chased females with calves significantly more than females without calves. Fluke sizes of mothers who were chased were significantly smaller than mothers not chased, and the chasing males tended to have smaller flukes (i.e., younger age-class) than males that did not chase. I also conducted 34 playback experiments (broadcasting sounds of competitive males) with 14 female no-calf groups (male-female pairs) and 20 female-calf groups (11 escorted and 9 unescorted female-calf groups). Results of playback trials indicated that females with calves were significantly more likely to avoid playbacks of sounds produced by adult males than females without calves. Overall, the range and variability of female behavior and movement patterns, especially around males, was striking. Results indicate that female reproductive class is a key factor in determining how females respond and interact with males during the breeding season, but also suggest that male-female interactions during the breeding season are a reflection of a combination of factors, beginning with female reproductive class, but also including costs and benefits of specific male escorts, stage of the reproductive cycle, relative body size and/or age-class.

### Sperm Whales

Hal Whitehead 2003-08-15 Famed in story as "the great leviathans," sperm whales are truly creatures of extremes. Giants among all whales, they also have the largest brains of any creature on Earth. Males can reach a length of sixty-two feet and can weigh upwards of fifty tons. With this book, Hal Whitehead gives us a clearer picture of the ecology and social life of sperm whales than we have ever had before. Based on almost two decades of field research, Whitehead describes their biology, behavior, and habitat; how they organize their societies; and how their complex lifestyles may have evolved in this unique environment. Among the many fascinating topics he explores is the crucial role that culture plays in the life of the sperm whale, and he traces the consequences of this argument for both evolution and conservation. Finally, drawing on these findings, Whitehead builds a general model of how the ocean environment influences social behavior and cultural evolution among mammals as well as other animals. The definitive portrait of a provocative creature, Sperm Whales will interest animal behaviorists, conservationists, ecologists, and evolutionary biologists as well as marine mammalogists.

### 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

### 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

### Whales and Dolphins

Steve Parker 1994 Discusses the difference between whales and dolphins and provides information on their anatomy, habitats, life cycle, communications, and other characteristics

### Mammal Anatomy

Marshall Cavendish Corporation 2010 Provides details on the anatomy of fourteen mammals, including dolphins, chimpanzees, squirrels, and humans, and describes the musculoskeletal, circulatory, nervous, digestive, and reproductive systems of each animal.

### New Zealand Natural Sciences

### Reproductive Biology and Phylogeny of Cetacea

**Whales, Porpoises and Dolphins**-Debra Lee Miller 2016-04-19 The order Cetacea comprises some amazing species, representing some of the most evolved creatures that inhabit this earth. Yet, they also represent a group of species for which much remains unknown. There are over 80 species of cetaceans composed of porpoises, dolphins and whales. This volume represents the latest of published and previously unpublished information regarding cetacean reproductive biology and phylogeny.

### The Blue Whale

Stanislao Nievo 2000 This is the captivating story of a close encounter between a whale and a woman told from the perspective of both protagonists. For many years humankind has been fascinated by communication between whales and dolphins. A scientific project studying the sounds emitted by blue whales takes an unexpected turn when one of the group of whales which is the subject of the study shows signs of attempting to communicate with Miriam, the project team's statistician. This strange encounter takes on increasingly deeper meanings as the whale saves Miriam when she is swept overboard and speaks to her in a language she does not understand, as she lies in a trance-like state. Miriam's increasing fascination with the whale leads her to actively seek further encounters. The primordial elemental tie between the females of two species so different in genetic terms yet so similar at a psycho-etiological level brings the whale and Miriam to finally achieve a mystic telepathic communication through the mysterious and instinctive bond which links them.

### The Bowhead Whale

J.C. George 2020-09-11 The Bowhead Whale: Balaena mysticetus: Biology and Human Interactions covers bowhead biology from their anatomy and behavior, to conservation, distribution, ecology and evolution. The book also discusses the biological and physical aspects of the Arctic ecosystem in which these whales live, with careful attention paid to the dramatic changes taking place. A special section of the book describes the interactions of humans with bowheads in past and present, focusing on their importance to Indigenous communities and the challenges regarding entanglement in fishing gear, industrial noise and ship strikes. This volume brings together the knowledge of bowheads in one place for easy reference for scientists that study the species, marine mammal biologists, but, equally important, for everyone who is interested in the Arctic. Presents the only current book dedicated to this species Includes short, high-impact chapters that make it possible to review all bowhead biology in one compact volume Illustrated with never-before published photos of bowheads in their natural environment Provides a platform for an in-depth understanding of indigenous whaling

### The 100 Year Starship

Mae Jemison 2013-01-01 Introduces the solar system and explains how astronomers have used technology to discover new stars and planets.

### Killer Whale

Caroline Arnold 2013-06-28 Killer whales are the top predators in the ocean, and they use their speed and strenght to capture their food. These same qualities help make them among the most exciting performers at aquatic parks. The informative text describes the killer whales' daily life and habits, both in captivity and in the wild. Forty exciting full-color photographs reveal the whales' sleek beauty and highlight its unusual physical characteristics.

### Whales

Erik D. Stoops 1996 Introduces whales; describes their anatomy, senses, food, reproduction, and defenses; discusses the relationship between whales and humans; and explains the differences between the various kinds of whale.

### Whales: 101 Fun Facts & Amazing Pictures (Featuring The World's Top 7 Whales)

Janet Evans 2013-10-23 This book depicts the wonder of the world of Whales in all its glory. Children are given a well-rounded understanding of this beautiful mammal: its anatomy, feeding habits and behavior. The following Whales are featured: \* The awesome Blue Whale \* The loveable Beluga Whale \* The notorious Killer Whale \* The endangered Humpback Whale \* The shy Minke Whale \* The loud Sperm Whale \* The tusked Narwhal The pictures look great even in black and white and are excellent on the full color kindle. The description in the large text beneath is simple enough for early readers or for a parent to guide a child through. There are also picture captions that provide more information to talk about with your child. Alternatively, a child of any age (even the child in you) can just look at the images and appreciate its beauty. Enjoy!

### What is a Whale?

Bobbie Kalman 2000 Introduces the physiology, habitats, feeding, and behavior of different types of whales and discusses whale watching.

### The Breath of a Whale

Leigh Calvez 2019-02-26 From the author of The Hidden Lives of Owls, an exploration of the elusive lives of whales in the Pacific Ocean, home to orcas, humpbacks, sperm, blue, and gray whales. Leigh Calvez has spent a dozen years researching, observing, and probing the lives of the giants of the deep. Here, she relates the stories of nature's most remarkable creatures, including the familial orcas in the waters of Washington State and British Columbia; the migratory humpbacks; the ancient, deep-diving blue whales, the largest animals on the planet. The lives of these whales are conveyed through the work of dedicated researchers who have spent decades tracking them along their secretive routes that extend for thousands of miles, gleaning their habits and sounds and distinguishing peculiarities. The author invites the reader onto a small research catamaran maneuvering among 100-foot long blue whales off the coast of California; or to join the task of monitoring patterns of humpback whale movements at the ocean surface: tail throw, flipper slap, fluke up, or blow. To experience whales is breathtaking. To understand their lives deepens our connection with the natural world.

### Drawing Whale with Pencil

Veri Apriyatno 2016-02-01 Drawing tutorial eBook. Step by step, how to draw Whale with pencil. Anatomical structure, movement, expression, nature, psychology and mythology.

### Whale Magic for Kids

Tom Wolpert 1991 Discusses the different kinds of whales, their behavior and habitat.

### Whales

Deborah Hodge 1999-01-03 Kids will learn about the many kinds of whales that live in the world’s oceans. They’ll find out how and where whales live, how they give birth and raise their young, how they find food, how some species migrate and communicate, and much more. The easy-to-read text and detailed illustrations of the Kids Can Press Wildlife Series meet the research needs of young children and satisfy their curiosity about these magnificent animals.

### The Great Depression

Adriane Ruggiero 2005 Profiles the harsh conditions suffered by the majority of the American population during the 1930s, and explains Franklin Delano Roosevelt's New Deal and the Social Security Act.

### At the Water's Edge

Carl Zimmer 2014-08-26 Everybody Out of the Pond At the Water's Edge will change the way you think about your place in the world. The awesome journey of life's transformation from the first microbes 4 billion years ago to Homo sapiens today is an epic that we are only now beginning to grasp. Magnificent and bizarre, it is the story of how we got here, what we left behind, and what we brought with us. We all know about evolution, but it still seems absurd that our ancestors were fish. Darwin's idea of natural selection was the key to solving generation-to-generation evolution -- microevolution -- but it could only point us toward a complete explanation, still to come, of the engines of macroevolution, the transformation of body shapes across millions of years. Now, drawing on the latest fossil discoveries and breakthrough scientific analysis, Carl Zimmer reveals how macroevolution works. Escorting us along the trail of discovery up to the current dramatic research in paleontology, ecology, genetics, and embryology, Zimmer shows how scientists today are unveiling the secrets of life that biologists struggled with two centuries ago. In this book, you will find a dazzling, brash literary talent and a rigorous scientific sensibility gracefully brought together. Carl Zimmer provides a comprehensive, lucid, and authoritative answer to the mystery of how nature actually made itself.

### Fin Whales

Kristin Petrie 2005-08-15 Whales are among the largest animals on earth. How amazing that a big whale can jump out of the water and fly over the rope at the water park! Readers learn about the many types of whales and how to identify them.

### Whales for Kids

Tom Wolpert 1990 Discusses the physical characteristics and behavior of the largest animal that ever lived.

### Whales and Dolphins of New Zealand and Australia

A. N. Baker 1990

### Dolphins and Whales

Larry N. Brown 2001 Using color and black and white photos, this book deals with the adaptations, ecology, identification, and life histories of the those mammals that live in the waters off the coasts of the southeastern United States and the West Indies, including the Florida manatee, whales, dolphins, porpoises, seals.

### New Approaches to the Study of Marine Mammals

Aldemaro Romero 2012-11-07 The highly specialized nature of marine mammals when compared with their terrestrial counterparts, the environment in which they live, and the impact of humans on them throughout history and at the present, have made of the scholarship on these creatures something unique in itself. Therefore, it is not surprising that many researchers have also taken a distinctive approach to their study. This volume is aimed at providing a glimpse at such diversity of views and approaches while delivering valuable information on marine mammalogy. Given the increasing concerns regarding issues of anthropogenic factors affecting these animals, it is not surprising that the majority of chapters in this book deal with this subject.

### Account of the Dissection of a Young Orqqual, Or Short Whalebone Whale (the Balaena Rostrata of Fabricius)

Robert Knox 1834

### Memoir on the Anatomy of the Humpback Whale, Megaptera Longimana

Sir John Struthers 1889

### Whales, Dolphins, and Porpoises

Annalisa Berta 2015-09-18 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.

**Aerial Photogrammetry to Estimate Size, Growth, and Body Condition of Mammal-eating Bigg's Killer Whales**-Chloe Kotik 2020 Food availability has been identified as a critical factor influencing the growth, individual health, and population dynamics of killer whales (*Orcinus orca*) in the coastal waters of the eastern North Pacific Ocean. Between 2014 and 2019 we conducted 113 hand-launched unmanned aerial system flights over mammal-eating Bigg's killer whales around Vancouver Island, resulting in 20,545 aerial photographs of 95 individually identified animals. I conducted photogrammetric measurements from high-quality images in 91 individuals, a sample that ranged from first-year calves to mature adults of both sexes; this is the first study to estimate size, growth, and health of Bigg-s killer whales. Individual lengths ranged from a 2.4m neonate to an 8.3m 38-year-old male. Using a Richard-s growth curve model, I estimated asymptotic adult length at  $6.4 \pm 0.1\text{m}$  (standard error) in females and  $7.3 \pm 0.2\text{m}$  in males, as well as age of inflection at  $14.2 \pm 2.8$  years in females and  $18.4 \pm 2.3$  years in males. Comparison with sympatric salmon-eating Southern Resident killer whales found that both sexes of Bigg-s killer whale measured significantly longer than Southern Residents (female z-test  $P = 0.003$ ; male z-test  $P = 0.093$ ) but there was no significant difference in age of inflection between males (z-test,  $P = 0.53$ ) or females (z-test,  $P = 0.45$ ) between the two populations. Analysis of eye patch ratio (a proxy for body condition) revealed that all age/sex classes of Bigg-s killer whales were more robust than Southern-Resident killer whales, and the difference was most significant when comparing calves (z-test,  $P$

**Dolphins and Whales**-Stephen Savage 1991

**The Wolf in the Whale**-Jordanna Max Brodsky 2019-01-29 "If you liked American Gods by Neil Gaiman or Circe by Madeline Miller, be sure to pick this one up." -- Timeworn A sweeping tale of forbidden love and warring gods, where a young Inuit shaman and a Viking warrior become unwilling allies in a war that will determine the fate of the new world. There is a very old story, rarely told, of a wolf that runs into the ocean and becomes a whale. . . Born with the soul of a hunter and the spirit of the Wolf, Omat is destined to follow in her grandfather's footsteps-invoking the spirits of the land, sea, and sky to protect her people. But the gods have stopped listening and Omat's family is starving. Desperate to save them, Omat journeys across the icy wastes, fighting for survival with every step. When she encounters Brandr, a wounded Viking warrior, they set in motion a conflict that could shatter her world. . .or save it.

**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

**Whales of the World**-Spencer Wilkie Tinker 1988-01-01

**Encyclopedia of Marine Mammals**-W. F. Perrin 2002-02-05 Includes articles devoted to wide range of topics -- from the specific behavior and physiology of cetaceans and pinnipeds, to ecology, population biology, human effects and interaction, and research methodology.

**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

**100 Things You Should Know about Whales & Dolphins**-Steve Parker 2006

**The Natural History of the Whale**-Leonard Harrison Matthews 1978-01-01 Details the anatomy, physiology, types, behavior, and environment of cetaceans and notes threats to and chances for their survival

**The Scientific Reports of the Whales Research Institute**-Whales Research Institute (Tokyo, Japan) 1988

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