



OCEAN NOISE AND MARINE MAMMALS

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Ocean Noise And Marine Mammals

R Sanford



Ocean Noise And Marine Mammals:

Ocean Noise and Marine Mammals National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Committee on Potential Impacts of Ambient Noise in the Ocean on Marine Mammals, 2003-06-22 For the 119 species of marine mammals as well as for some other aquatic animals sound is the primary means of learning about the environment and of communicating navigating and foraging The possibility that human generated noise could harm marine mammals or significantly interfere with their normal activities is an issue of increasing concern Noise and its potential impacts have been regulated since the passage of the Marine Mammal Protection Act of 1972 Public awareness of the issue escalated in 1990s when researchers began using high intensity sound to measure ocean climate changes More recently the stranding of beaked whales in proximity to Navy sonar use has again put the issue in the spotlight Ocean Noise and Marine Mammals reviews sources of noise in the ocean environment what is known of the responses of marine mammals to acoustic disturbance and what models exist for describing ocean noise and marine mammal responses Recommendations are made for future data gathering efforts studies of marine mammal behavior and physiology and modeling efforts necessary to determine what the long and short term impacts of ocean noise on marine mammals *Marine Mammal Populations and Ocean Noise* National Research Council, Division on Earth and Life Studies, Ocean Studies Board, Committee on Characterizing Biologically Significant Marine Mammal Behavior, 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 Mammals and Noise W. John Richardson, Charles R. Greene Jr., Charles I. Malme, Denis H. Thomson, 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 **Effects of Noise on Marine Mammals** William John Richardson, 1991

Ocean Noise and Marine Mammals, 2003 **Marine Mammal Populations and Ocean Noise. Determining When Noise Causes Biologically Significant Effects**, 2005 In its 2000 report *Marine Mammals and Low frequency Sound* the National Research Council recommended that the Marine Mammal Protection Act definition of Level B harassment should be limited to meaningful disruption of biologically significant activities that could affect demographically important variables such as reproduction and longevity Recognizing that the term biologically significant is increasingly used in resource management and conservation plans this study will further describe the scientific basis of the term in the context of marine mammal conservation and management related to ocean noise Based on input from a scientific workshop consideration of the relevant literature and other sources the committee will produce a brief report that reviews and characterizes the current scientific understanding of when animal behavior modifications induced by transient and non transient ocean acoustic sources individually or cumulatively affect individuals in ways that have negative consequences for populations

International Regulation of Underwater Sound Elena McCarthy, 2004-07-28 Numerous incidents suggest that man made sound injures and can kill marine mammals This book offers an objective look at how ocean noise should be addressed given the lack of regulatory structure and the scientific uncertainty over the effects of noise on marine life It is an essential text for policymakers governments and NGOs biologists environmental activists oceanographers and those in the shipping engineering and offshore oil and gas industries *Marine Mammal Populations and Ocean Noise. Determining When Noise Causes Biologically Significant Effects*, 2005 In its 2000 report *Marine Mammals and Low frequency Sound* the National Research Council recommended that the Marine Mammal Protection Act definition of Level B harassment should be limited to meaningful disruption of biologically significant activities that could affect demographically important variables such as reproduction and longevity Recognizing that the term biologically significant is increasingly used in resource management and conservation plans this study will further describe the scientific basis of the term in the context of marine mammal conservation and management related to ocean noise Based on input from a scientific workshop consideration of the relevant literature and other sources the committee will produce a brief report that reviews and characterizes the current scientific understanding of when animal behavior modifications induced by transient and non transient ocean acoustic sources individually or cumulatively affect individuals in ways that have negative consequences for populations **Ocean Noise and the Behavior of Marine Mammals** Arthur A. Myrberg (Jr.), 1978 **Ocean Noise Pollution** Yves

Earhart, AI, 2025-03-04 *Ocean Noise Pollution* examines the escalating environmental concern of human generated sound impacting marine life particularly in the deep sea environment It highlights how shipping noise characterized by constant low frequency rumble and sonar known for its high intensity pulses disrupt marine organisms adapted to the ocean's natural soundscape The book reveals that chronic exposure to this acoustic pollution poses a significant threat potentially disturbing communication foraging reproduction and the overall well being of creatures ranging from marine mammals to invertebrates

The book begins by establishing foundational knowledge of underwater acoustics and the natural ocean soundscape shaped by geological activity and marine animal communication. It then progresses to specific case studies presenting research on the effects of shipping and sonar noise before exploring potential mitigation strategies and policy recommendations. By drawing upon scientific literature, government reports, and original data analysis, *Ocean Noise Pollution* offers an integrated perspective on this multifaceted environmental challenge, emphasizing the importance of holistic conservation approaches and technological innovations for noise reduction.

Marine Mammal Acoustics in a Noisy Ocean Christine Erbe, Dorian Houser, Ann Bowles, Michael B. Porter, 2025-08-03 This open access book invites its readers to dive into the depths of marine mammal bioacoustics. The ocean is a noisy place naturally as well as anthropogenically. Our book explores the fundamentals of ocean acoustics, revealing the intricate sources of underwater noise that challenge marine life. Readers delve into the unique vocalizations of mysticetes, odontocetes, pinnipeds, otters, and sirenians, uncovering their diverse communication in stormy waters. The book presents research on marine mammal hearing and the impact of noise on their physiology and behavior, from the subtle behavioral responses to the broader biological significance of these effects. With insights into the management of anthropogenic noise, this book equips students, researchers, environmental managers, policy makers, conservationists, and enthusiasts alike with vital knowledge for protecting our ocean's acoustic environments.

Effects of Noise on Marine Mammals, 1989 **Potential Impacts of Ambient Noise in the on Marine Mammals**, 2003

The Committee was charged with assessing our state of knowledge of underwater noise and recommending research areas to assist in determining whether noise in the ocean adversely affects marine mammals. The committee was selected to represent a diverse range of expertise, including acousticians and marine biologists, as well as an expert in geophysical exploration. The committee convened four times, including three open public sessions. A wide variety of experts in the field of marine mammals and noise addressed the committee and submitted materials for review. One of the challenges in preparing the report was to standardize the units of measure. Another was to clarify commonly used terms in underwater acoustics, seismic exploration, and marine mammalogy. Remarkably few details are known about the characteristics of ocean noise, whether it be of human or natural origin, and much less is understood of the impact of noise on the short and long term well-being of marine mammals and the ecosystems on which they depend.

Marine Mammal Behavior Laura Anderson, AI, 2025-03-04 *Marine Mammal Behavior* explores the complex communication and social structures of deep-sea cetaceans, such as whales and dolphins, in their extreme environment. These animals face unique challenges, like limited visibility and immense pressure, leading to the evolution of sophisticated acoustic communication systems. Did you know that sperm whales use distinct vocalizations or clicks to not only locate prey but also potentially maintain social bonds across vast distances? Understanding these behaviors offers insights into the evolution of intelligence and the conservation challenges these animals face. This book synthesizes data from acoustic recordings, satellite tagging, and visual surveys to reveal how these marine mammals have

adapted It progresses methodically first laying the groundwork with principles of acoustics and animal behavior Subsequent chapters then dive into species specific details such as the social grouping patterns of beaked whales before integrating these observations to identify general principles The book uniquely emphasizes the environmental context of deep sea cetacean behavior and addresses the impact of anthropogenic noise on these vulnerable creatures Ultimately Marine Mammal Behavior underscores the significance of understanding these intricate societies for effective conservation strategies By examining vocalizations and social interactions the book provides a valuable resource for marine biologists conservation managers and anyone fascinated by the hidden lives of deep sea whales and dolphins

Marine Mammal Protection Act United States. Congress. House. Committee on Resources. Subcommittee on Fisheries Conservation, Wildlife, and Oceans, 2002

Low-Frequency Sound and Marine Mammals National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Low-Frequency Sound and Marine Mammals, 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 Mammals and Low-Frequency Sound National Research Council, Commission on Geosciences, Environment and Resources, Ocean Studies Board, Committee to Review Results of ATOC's Marine Mammal Research Program, 2000-05-11

Sound has become a major tool for studying the ocean Although the ocean is relatively opaque to light it is relatively transparent to sound Sound having frequencies below 1 000 Hertz Hz is often defined as low frequency sound The speed of sound is proportional to the temperature of the water through which it passes Therefore sound speed can be used to infer the average temperature of the water volume through which sound waves have passed The relationship between water temperature and the speed of sound is the basis for the Acoustic Thermometry of Ocean Climate ATOC experiment The ATOC experiment is designed to monitor the travel time of sound between sources off the coasts of Hawaii and California and several receivers around the Pacific Ocean in order to detect trends in ocean temperature and for other research and monitoring purposes Some whales seals and fish use low frequency sound to communicate and to sense their environments For example baleen whales and some toothed whales are known to use and respond to low frequency sound emitted by other individuals of their species Sharks are not known to produce low frequency sound but are attracted to pulsed low frequency sounds Therefore it is possible that human generated low frequency sound could interfere with the natural behavior of whales sharks and some other marine animals

Marine Mammals and Low Frequency Sound is an updated review of the National Research Council 1994 report *Low Frequency Sound and Marine Mammals Current Knowledge and Research Needs* based on data obtained from the MMRP and results of any other relevant research including ONR's research program in low

frequency sound and marine mammals This report compares new data with the research needs specified in the 1994 NRC report focusing on the strengths and weaknesses of the data for answering important outstanding questions about marine mammal responses to low frequency sound and identifies areas where gaps in our knowledge continue to exist *Marine Mammal Physiology* Michael A. Castellini,Jo-Ann Mellish,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 an Physiology of Marine Mammals Michael Castellini,Jo-Ann Mellish,2023-07-05 Suppose you were designing a marine mammal What would they need to live in the ocean How would you keep them warm What design features would allow them to dive for very long periods to extreme depths Do they need water to drink How would they minimize the cost of swimming and how would they find their prey in the deep and dark These questions and more are examined in detail throughout *Marine Mammal Physiology* which explores how marine mammals live in the sea from a physiological point of view This undergraduate textbook considers the essential aspects of what makes a marine mammal different from terrestrial mammals beyond just their environment It focuses on the physiological and biochemical traits that have allowed this group of mammals to effectively exploit the marine environment that is so hostile to humans The content of this book is organised around common student questions taking the undergraduate s point of view as the starting point Each chapter provides a set of PowerPoint slides for instructors to use in teaching and students to use as study guides New Study Questions and Critical Thinking Points conclude each chapter which are each motivated by a Driving Question such as How do mammals stay warm in a cold ocean or How do mammals survive the crushing pressures of the deep sea Full colour images and comprehensive accessible content make this the definitive textbook for marine mammal physiology **Effects of Underwater Noise on Marine Mammals** ,2002 In the Mediterranean Sea marine life is threatened by habitat degradation due to human activities such as fisheries ship traffic pollution and coast anthropization Other than being effected by chemical pollution which may contaminate the whole marine food web cetaceans can also be effected by noise pollution The underwater environment has its own acoustic peculiarities and cetaceans are extraordinarily well adapted to them In these mammals acoustic communication has acquired a privileged role compared with other communication channels Marine mammals live in a medium which poorly transmits light but through which sound propagates very well even over long distances Marine mammals heavily rely on sound to communicate to exploit and investigate the environment to find prey and to avoid obstacles The effect of anthropogenic noise on the marine environment is a new serious concern for scientists

Discover tales of courage and bravery in Explore Bravery with is empowering ebook, **Ocean Noise And Marine Mammals** . In a downloadable PDF format (Download in PDF: *), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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