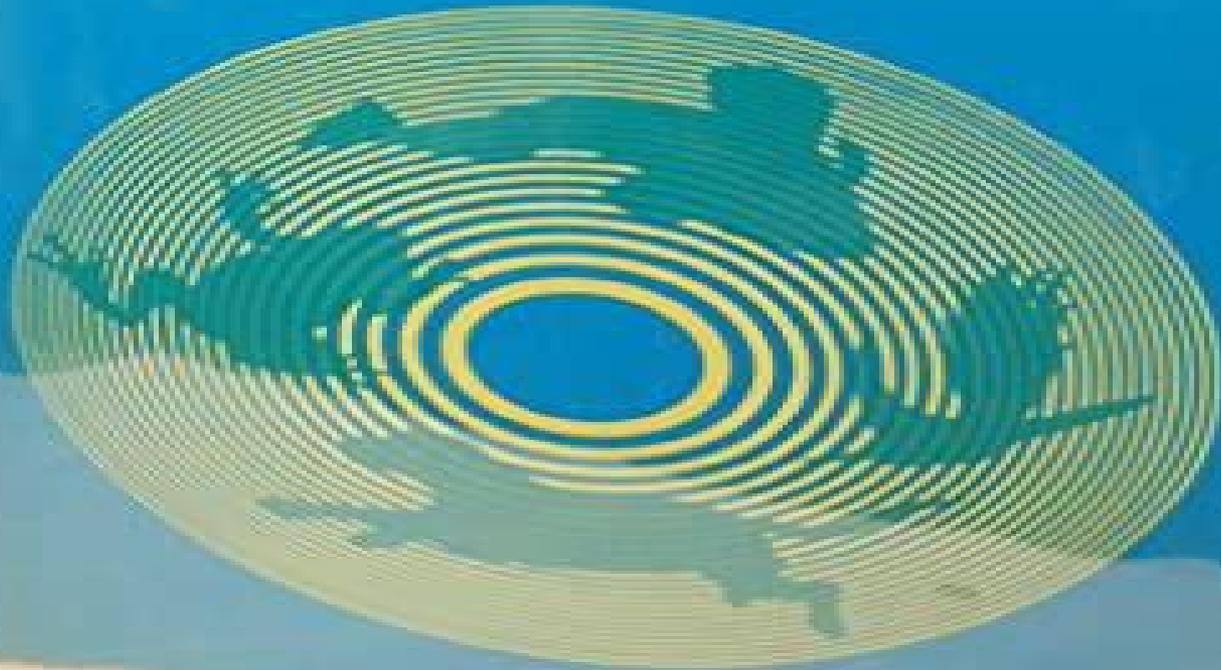


# The Acoustic Sense of Animals

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WILLIAM C. STEBBINS



# Acoustic Sense Of Animals

**Robert Mearns Yerkes**



## **Acoustic Sense Of Animals:**

**The Acoustic Sense of Animals** William C. Stebbins, 1983 This immensely readable introduction to animal acoustics explains not only how animals hear but why they listen It is a unique blend of audition auditory anatomy physics of sound and methods of psychophysics combined with behavior natural history and evolution The Acoustic Sense of Animals is ideal for graduate and undergraduate courses and for professionals in fields such as sensory physiology and animal behavior In his broadly comparative approach Stebbins explores the function of hearing for each animal in its particular ecological setting and the significance of communication for members of a species He renders the evolution of hearing with special emphasis on the peripheral auditory system and basic auditory function Although ample evidence is brought to bear both from the laboratory and from field studies the book is not burdened with excessive detail The writing is crisp and the references are tailored to those most useful for nonspecialists The Acoustic Sense of Animals covers a complex field with balance and clarity within a solid evolutionary framework Equally important it conveys the controversy and excitement that will motivate students

**Animal Acoustic Communication** Steven L. Hopp, Michael J. Owren, Christopher S. Evans, 2012-12-06 The last decades have brought a significant increase in research on acoustic communication in animals Publication of scientific papers on both empirical and theoretical aspects of this topic has greatly increased and a new journal Bioacoustics is entirely devoted to such articles Coupled with this proliferation of work is a recognition that many of the current issues are best approached with an interdisciplinary perspective requiring technical and theoretical contributions from a number of areas of inquiry that have traditionally been separated With the notable exception of a collection edited by Lewis 1983 there have been few volumes predominately focused on technical issues in comparative bioacoustics to follow up the early works edited by Lanyon and Tavolga 1960 and Busnel 1963 It was the tremendous growth of expertise concerning this topic in particular that provided the initial impetus to organize this volume which attempts to present fundamental information from both theoretical and applied aspects of current bioacoustics research While a completely comprehensive review would be impractical this volume offers a basic treatment of a wide variety of topics aimed at providing a conceptual framework within which researchers can address their own questions Each presentation is designed to be useful to the broadest possible spectrum of researchers including both those currently working in any of the many and diverse disciplines of bioacoustics and others that may be new to such studies

**Springer Handbook of Acoustics** Thomas Rossing, 2007-06-21 This is an unparalleled modern handbook reflecting the richly interdisciplinary nature of acoustics edited by an acknowledged master in the field The handbook reviews the most important areas of the subject with emphasis on current research The authors of the various chapters are all experts in their fields Each chapter is richly illustrated with figures and tables The latest research and applications are incorporated throughout including computer recognition and synthesis of speech physiological acoustics diagnostic imaging and therapeutic applications and acoustical oceanography An accompanying CD ROM contains audio and

video files      **Handbook of Mammalian Vocalization** Stefan M Brudzynski, 2009-12-08 Handbook of Mammalian Vocalization is designed as a broad and comprehensive but well balanced book written from the neuroscience point of view in the broad sense of this term This well illustrated Handbook pays particular attention to systematically organized details but also to the explanatory style of the text and internal cohesiveness of the content so the successive chapters gradually develop a consistent story without losing the inherent complexity Studies from many species are included however rodents dominate as most of the brain investigations were done on these species The leading idea of the Handbook is that vocalizations evolved as highly adaptive specific signals which are selectively picked up by the brain The brain serves as a receptor and behavioural amplifier Brain systems will be described which allow vocal signals rapidly changing the entire state of the organism and trigger vital biological responses usually also with accompanying emission of vocalizations Integrative brain functions leading to vocal outcome will be described along with the vocalization generators and motor output to larynx and other supportive motor subsystems The last sections of the Handbook explains bioacoustic structure of vocalizations present understanding of information coding and origins of the complex semiotic semantic content of vocalizations in social mammals The Handbook is a major source of information for professionals from many fields with a neuroscience approach as a common denominator The handbook provides consistent and unified understanding of all major aspects of vocalization in a monographic manner and at the same time gives an encyclopaedic overview of major topics associated with vocalization from molecular cellular level to behavior and cognitive processing It is written in a strictly scientific way but clear enough to serve not only for specialized researchers in different fields of neuroscience but also for academic teachers of neuroscience including behavioural neuroscience affective neuroscience clinical neuroscience neuroethology biopsychology neurolinguistics speech pathology and other related fields and also for research fellows graduate and other advanced students who widely need such a source publication The first comprehensive handbook on what we know about vocalization in Mammals Carefully edited the handbook provides an integrated overview of the area International list of highly regarded contributors including Jaak Pankseep Washington State University David McFarland Oxford John D Newman NIH Unit on Developmental Neuroethology Gerd Poeggel Leipzig Shiba Keisuke Chiba City Japan and others tightly edited by a single well regarded editor who has edited a special issue in Behavioral Brain Research on the topic before      *Studies in Animal Behavior: 1899-1905* Robert Mearns Yerkes, 1899      **Animal Sonar Systems** R. Busnel, 2013-06-29 Thirteen years have gone by since the first international meeting on Animal Sonar Systems was held in Frascati Italy in 1966 Since that time almost 900 papers have been published on its theme The first symposium was vital as it was the starting point for new research lines whose goal was to design and develop technological systems with properties approaching optimal biological systems There have been highly significant developments since then in all domains related to biological sonar systems and in their applications to the engineering field The time had therefore come for a multidisciplinary integration of the information

gathered not only on the evolution of systems used in animal echolocation but on systems theory behavior and neurobiology signal to noise ratio masking signal processing and measures observed in certain species against animal sonar systems Modern electronics technology and systems theory which have been developed only since 1974 now allow designing sophisticated sonar and radar systems applying principles derived from biological systems At the time of the Frascati meeting integrated circuits and technologies exploiting computer science were not well enough developed to yield advantages now possible through use of real time analysis leading to among other things a definition of target temporal characteristics as biological sonar systems are able to do All of these new technical developments necessitate close co operation between engineers and biologists within the framework of new experiments which have been designed particularly in the past five years

*The Senses: A Comprehensive Reference*, 2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the function of sense organs sensory systems and how the brain processes sensory input As with the first edition contributions from leading scholars from around the world will ensure The Senses offers a truly international portrait of sensory physiology The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and deepen their knowledge All inclusive coverage of topics updated edition offers readers the only current reference available covering neurobiology physiology anatomy and molecular biology of sense organs and the processing of sensory information in the brain Authoritative content world leading contributors provide readers with a reputable dynamic and authoritative account of the topics under discussion Comprehensive style content in depth complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion

**Magill's Encyclopedia of Science : Animal Life: Aardvarks-endoskeletons** Carl W. Hoagstrom, 2002 Covers various aspects of zoology in four volumes including the behavior class evolution and physiology of both wild and domestic animals

**Papers in Animal Behaviour** Robert Mearns Yerkes, 1899 [Acoustic Behaviour of Animals](#) International Committee of Bio-acoustics, 1963

**Exploring Animal Behavior Through Sound: Volume 1** Christine Erbe, Jeanette A. Thomas, 2022-10-03 This open access book empowers its readers to explore the acoustic world of

animals By listening to the sounds of nature we can study animal behavior distribution and demographics their habitat characteristics and needs and the effects of noise Sound recording is an efficient and affordable tool independent of daylight and weather and recorders may be left in place for many months at a time continuously collecting data on animals and their environment This book builds the skills and knowledge necessary to collect and interpret acoustic data from terrestrial and marine environments Beginning with a history of sound recording the chapters provide an overview of off the shelf recording equipment and analysis tools including automated signal detectors and statistical methods audiometric methods acoustic terminology quantities and units sound propagation in air and under water soundscapes of terrestrial and marine habitats animal acoustic and vibrational communication echolocation and the effects of noise This book will be useful to students and researchers of animal ecology who wish to add acoustics to their toolbox as well as to environmental managers in industry and government

**Magill's Encyclopedia of Science : Animal Life: Respiratory system-zoos** Carl W. Hoagstrom,2002 Covers various aspects of zoology in four volumes including the behavior class evolution and physiology of both wild and domestic animals *The Natural History Reader in Animal Behavior* Howard R. Topoff,1987 Essays discuss migration courtship the care of young camouflage hunting techniques and symbiotic relationships **Learning and Calamities** Heike Egner,Marén Schorch,Martin Voss,2014-08-13 It is widely assumed that humanity should be able to learn from calamities e g emergencies disasters catastrophes and that the affected individuals groups and enterprises as well as the concerned disaster management organizations and institutions for prevention and mitigation will be able to be better prepared or more efficient next time Furthermore it is often assumed that the results of these learning processes are preserved as knowledge in the collective memory of a society and that patterns of practices were adopted on this base Within history there is more evidence for the opposite Analyzing past calamities reveals that there is hardly any learning and if so that it rarely lasts more than one or two generations This book explores whether learning in the context of calamities happens at all and if learning takes place under which conditions it can be achieved and what would be required to ensure that learned cognitive and practical knowledge will endure on a societal level The contributions of this book include various fields of scientific research history sociology geography psychoanalysis psychiatry development studies and political studies as well as disaster research and disaster risk reduction research The Journal of the Acoustical Society of America Acoustical Society of America,2006

**Biology of the vertebrates; a comparative study of man and his animal alli** Herbert Eugene Walter,1928

References to Contemporary Papers on Acoustics Frederick E. White,Donald C. Teas,1986 The Journal of Laryngology and Otology ,1927 **The American Journal of Otology. A Quarterly Journal of Physiological Acoustics and Aural Surgery** Clarence John Blake,2025-12-05 Reprint of the original first published in 1882 The Antigonos publishing house specialises in the publication of reprints of historical books We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage **Zoology** Lawrence G. Mitchell,1988

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