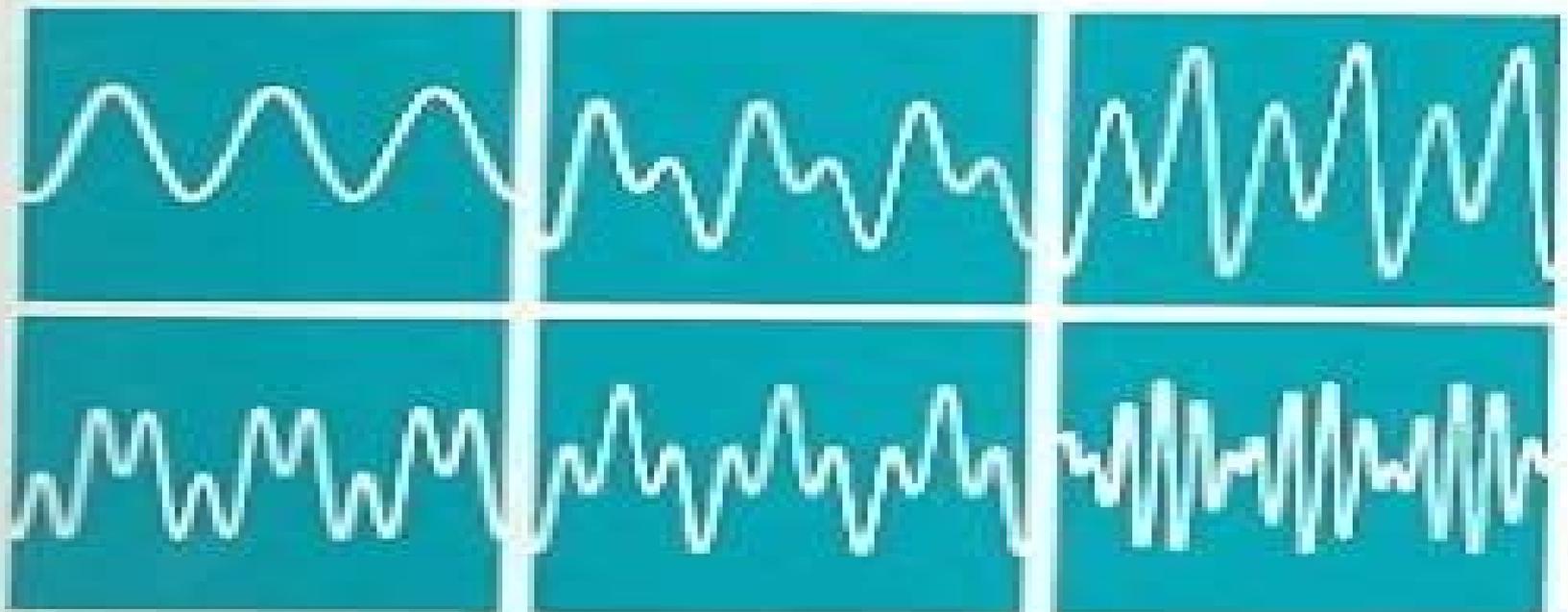


# BIOACOUSTICS

A COMPARATIVE APPROACH



EDITED BY BRIAN LEWIS

# Bioacoustics A Comparative Approach

**Acoustical Society of America**



## **Bioacoustics A Comparative Approach:**

Bioacoustics, a Comparative Approach D. Brian Lewis, 1983      Bioacoustics -a Comparative Approach B. Lewis,

**Comparative Bioacoustics: An Overview** Charles Brown, Tobias Riede, 2017-01-03 Comparative bioacoustics is extraordinarily broad in scope It includes the study of sound propagation dispersion attenuation absorption reverberation and signal degradation as well as sound detection recognition and classification in both marine and terrestrial organisms including humans This research is informed by an understanding of the mechanisms underlying sound generation and aural reception as well as the anatomy and physiology of the organs dedicated to these functions Comparative Bioacoustics is the definitive introductory guide to the field of acoustics in animal and human biology Key features of this volume are Comprehensive introduction to sound and related physical phenomena Multidisciplinary and comparative analyses of bioacoustic phenomena Integrated audio and video clips Information about relevant research methods in bioacoustics Comparative Bioacoustics makes key information accessible to readers therefore meeting the requirements of both novice and advanced researchers preparing for a scholarly career in bioacoustics

**The Behaviour of Teleost Fishes** Tony J. Pitcher, 2012-12-06 This book is about the behaviour of teleosts a well defined highly successful taxonomic group of vertebrate animals sharing a common body plan and forming the vast majority of living bony fishes There are well over 22000 living species of teleosts including nearly all those of importance in commercial fisheries and aquaculture Teleosts are represented in just about every conceivable aquatic environment from temporary desert pools to the deep ocean from soda lakes to sub zero Antarctic waters Behaviour is the primary interface between these effective survival machines and their environment behavioural plasticity is one of the keys to their success The study of animal behaviour has undergone revolutionary changes in the past decade under the dual impact of behavioural ecology and sociobiology The modern body of theory provides quantitatively testable and experimentally accessible hypotheses Much current work in animal behaviour has concentrated on birds and mammals animals with ostensibly more complex structure physiology and behavioural capacity but there is a growing body of information about the behaviour of fishes There is now increasing awareness that the same ecological and evolutionary rules govern teleost fish and that their behaviour is not just a simplified version of that seen in birds and mammals The details of fish behaviour intimately reflect unique and efficient adaptations to their three dimensional aquatic environment

**Behaviour of Teleost Fishes** T.J. Pitcher, 1992-12-31 This is the second edition of an extremely important and well received book The editor has brought together an international team of experts in the subject producing a book which contains vital information on major aspects of this important subject It should appear on the shelves of animal behaviourists fish biologists and fisheries scientists

Bioacoustics and Reproductive Ecology of the Damselfish *Dascyllus Albigella* David Allen Mann, 1995 While many fishes are known to produce sounds during courtship and aggression the information contained in the sounds and their role in reproduction is not well understood This thesis is an intensive

investigation of the sounds produced by the damselfish *Dascyllus albisella* the effect of the environment on their acoustic signals and how the sounds relate to reproduction *D albisella* males produce pulsed sounds during the signal jump visiting by females mating aggression to heterospecifics and conspecifics and nest preparation Females make only aggressive sounds The pulse period of aggressive sounds was shorter than courtship sounds There was no difference between visiting and mating sounds except in pulse duration Two types of aggressive sounds were produced pops and chirps Pops were more commonly made towards heterospecifics than conspecifics There were no differences in courtship sounds made by males from Johnston Atoll and Hawaii except in pulse duration which are likely due to differences in the recording environment The pulsed sounds produced during the signal jump of *D albisella* were analyzed to determine what information they contain about the signal jump and how they change with propagation There was no relationship between signal jump speed or distance with the number of pulses or pulse period of the sound There was no consistent change in the peak frequency of pulses in a call If echoes were present in the sound the change in echo delay would likely have been too small for damselfish to detect Sounds attenuated with distance such that the signal to noise ratio decreased from 17.25 dB at 1.2m to 5.10 dB at 11.12 m It is unlikely that *D albisella* can detect sounds at or beyond 11.12m from the sound source based on noise masking data from other fishes Pulse period is least affected by propagation when compared to peak frequency pulse duration inter pulse interval and coefficient of variation of pulse amplitudes within a call These results suggest that the sound produced during the signal jump acts over short distances and that the pulse period provides the most reliable basis for signal detection A passive acoustic detection system was developed to continuously record sound production activity of individual males in the field The rate of sound production could be used to determine the timing of spawning The daily rate of sound production increased until the day of spawning after which it decreased by over half Additionally the amount of sound production at night was highest just before spawning The passive acoustic detector also revealed that *D albisella* had regular peaks of calling at dawn similar to the dawn chorus in birds Patterns of male reproductive success varied for individual males over successive reproductive cycles and was not correlated to male size The variation in reproductive success suggests that females choose males based on characters that vary from cycle to cycle Data from the passive acoustic detector showed rates of courtship were positively correlated with reproductive success for three males The continuous time series of sound production were analyzed to determine appropriate sampling strategies to measure male sound production over shorter time periods using SCUBA However short samples of sound production 10 minutes or 60 minutes per male per day were poor estimators of peak calling rates and daily calling rates The rich variation in male courtship rates may contain information about male condition that has been previously ignored Two reproductive synchrony measures were developed and used in randomization tests to test for synchronization of reproduction within five sites in the Johnston Atoll lagoon Groups of isolated fish spawned in synchrony but not in synchrony with other groups even as close as 20-30 m There was no apparent

selective pressure for synchronous spawning when brood size brood loss and brood failure were considered It is possible though currently untestable that there is a benefit of synchronous spawning for larval survival It is unlikely that reproduction is synchronized in response to an environmental cue because the scale of synchronization is small Synchronization might develop through the courtship sound because it regularly increases and decreases with spawning and the range of detectability is on the order of the range of synchronization But it is also possible that males are responding to chemical cues released by females Spawning synchrony was also analyzed for 10 damselfish species *D. albisella* was among the most synchronized species along with *Abudefduf troschelii* Using a phylogenetic analysis of *Chromis*, *Amphiprion* and *Dascyllus* there are three viable hypotheses concerning the evolution of reproductive synchrony in *D. albisella* 1 it is an evolutionary relict that is no longer selected for and possibly maladaptive 2 it evolved as part of the harem lifestyle of the common ancestor of the *Dascyllus* genus or 3 it evolved as the result of selection pressure for synchronization during the larval stage

**Bioacoustics**, 2003 **Animal Sonar** Paul E. Nachtigall, Patrick W.B. Moore, 2012-12-06 The first meeting on biosonar that I had the opportunity to attend was held in 1978 on the Island of Jersey in the English Channel That meeting organized by Professor R G Busnel and Dr Jim Fish was my introduction to an exciting and varied group of hard working and dedicated scientists studying animal echolocation They are by nature a very diverse group They tend to publish in different journals and rarely interact despite the fact that they all work on echolocation When they do interact as a group as they did in Frascati Italy in 1966 in Jersey in 1978 and during the meeting reported in this volume the meetings are intense interesting and exciting This volume is a composition of a series of contributed papers written to foster an interdisciplinary understanding of the echolocation systems of animals The echolocation pulse production studies in bats and dolphins have recently been concentrated on the ontogeny of infant pulses other studies with three dimensional computer graphics and x ray computed tomography have concentrated on finally resolving the old controversy concerning the site of dolphin echolocation click production Much has been accomplished on the analysis of bat neural structure and function The intense effort directed toward understanding the structure connections and functional properties of parallel auditory pathways and the parallel and hierarchical processing of information by the mustached bat has led to dramatic breakthroughs in understanding brain function *Vertebrate Sound Production and Acoustic Communication* Roderick A. Suthers, W. Tecumseh Fitch, Richard R. Fay, Arthur N. Popper, 2016-04-27 Although the fundamental principles of vocal production are well understood and are being increasingly applied by specialists to specific animal taxa they stem originally from engineering research on the human voice These origins create a double barrier to entry for biologists interested in understanding acoustic communication in their study species The proposed volume aims to fill this gap providing easy to understand overviews of the various relevant theories and techniques and showing how these principles can be implemented in the study of all main vertebrate groups The volume will have eleven chapters assembled from the world's leading researchers at a level intelligible to a wide audience of

biologists with no background in engineering or human voice science Some will cover sound production in a particular vertebrate group others will address a particular issue such as vocal learning across vertebrate taxa The book will highlight what is known and how to implement useful techniques and methodologies but will also summarize current gaps in the knowledge It will serve both as a tutorial introduction for newcomers and a springboard for further research for all scientists interested in understanding animal acoustic signals **Wildlife Review** ,1992 **The Journal of the Acoustical Society of America** Acoustical Society of America,2007 *Insect Communication* Royal Entomological Society of London,1984 Interest in insect communication and the volume of literature on the subject has mushroomed in the past decade as physical and chemical methods of studying the organs that emit and receive signals and the signals themselves have improved encouraged by the prospect of manipulating insect behaviour for pest control It is therefore fitting that the commemorative celebrations of the society s foundation 150 years ago and its receipt of a Royal Charter in 1885 should include a symposium on this subject which spans so many aspects of insect life and entomological science However as information has accumulated and become more specialised so has it become more fragmented **The American Naturalist** ,1987

**Brain-Like Computing and Intelligent Information Systems** Shunichi Amari,Nikola Kasabov,1998 This book introduces a new rapidly expanding area in computer science and artificial intelligence Brain like computing combines traditional computational techniques with cognitive models inspired by the brain for building information systems Image and speech processing creative planning and design adaptive control knowledge acquisition and database mining are only a few areas where brain like computing is applied [The Diversity of Fishes](#) Gene S. Helfman,2009-05-04 Fishes as the largest group of living vertebrates offer almost unlimited opportunities for the study of evolutionary adaptation to environmental and biotic selection pressures This core text also contains chapters on biodiversity and fish conservation [Effect of Seismic Energy on Snow Crab \(Chionoecetes Opilio\)](#) John Robert Christian,L.G.L. Limited, Environmental Research Associates,Environmental Studies Research Funds (Canada),2004 Concern has been expressed by commercial fishermen that seismic surveys may affect the health and or behaviour of snow crab This study examines the effects of seismic survey air gun noise on snow crab snow crab catches The study investigated a number of health behavioural reproductive variables before during after seismic shooting in a preliminary attempt to assess potential effects on physical biochemical or activity patterns in subject crabs The study site was Conception Bay Newfoundland an area considered to be typical prime crab grounds Fishing experiments were conducted in a controlled manner using standard modified crab traps with seven sets prior to shooting and six afterward Crab movement behaviour after exposure to air gun shots was monitored for caged crabs by video camera and for transmitter tagged crabs by hydrophones Caged crabs were also exposed to air gun shots at various depths and were sampled to assess potential indicators of stress physical damage in comparison to control crabs not exposed to shots An important component of that study was to determine if lethal effects occurred three months after exposure

Results of this research are presented discussed and direct effects on crab physiology are summarized      **Subterranean Ecosystems** Horst Wilkens,David C. Culver,William F. Humphreys,2000 The types of animals and habitats found in subterranean ecosystems are described together with the geological formations in which they occur and their distribution on earth The ecology of some subterranean terrestrial and aquatic systems are described together with subterranean ecosystems in different climatic zones The nature of the adaptations to life in complete darkness and to the often sparse and patchily distributed foods or various trophic origins are described A central part of the volume deals with the characteristics and process involved in the adaptation speciation and evolution of subterranean animals The volume concludes with a consideration of the conservation issues arising      Scientific Basis of Noise-induced Hearing Loss Alf Axelsson,1996  
**Investigations on Cetacea** Georg Pilleri,1984      *Myotis* ,1981

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