



Sea Surface Sound Natural Mechanisms of Surface Generated Noise in the Ocean

Edited by

B. R. Kerman

NATO ASI Series

Sea Surface Sound Natural Mechanisms Of Surface Generated Noise In The Ocean

K Morrison



Sea Surface Sound Natural Mechanisms Of Surface Generated Noise In The Ocean:

Sea Surface Sound B.R. Kerman,1988-07-31 In its relentless pursuit of further knowledge science tends to compartmentalize Over the years the pursuit of What might be called geophysical acoustics of the sea surface has languished This has occurred even though there are well developed and active research programs in underwater acoustics ocean hydrodynamics cloud and precipitation physics and ice mechanics to name a few as well as a history of engineering expertise built on these scientific fields It remained to create a convergence a dialogue across disciplines of mutual benefit The central theme of the Lerici workshop perhaps overly simplified was What are the mechanisms causing ambient noise at the upper surface of the ocean What could hydrodynamicists contribute to a better understanding of breaking wave dynamics bubble production ocean wave dynamics or near surface turbulence for the benefit of the underwater acoustics community What further insights could fluid dynamicists gain by including acoustic measurements in their repertoire of instrumentation While every attendee will have his or her perceptions of details it was universally agreed that a valuable step had been taken to bring together two mature disciplines and that significant cooperative studies would undoubtedly follow The scope of the workshop was enlarged beyond its original intent to also include the question of ice noise generation The success of this decision can be seen in high quality of the presentations the contribution of its disciples in the other workshop discussions and the heightened awareness and interest of we other novices

Sea Surface Sound B.R. Kerman,2012-12-06 In its relentless pursuit of further knowledge science tends to compartmentalize Over the years the pursuit of What might be called geophysical acoustics of the sea surface has languished This has occurred even though there are well developed and active research programs in underwater acoustics ocean hydrodynamics cloud and precipitation physics and ice mechanics to name a few as well as a history of engineering expertise built on these scientific fields It remained to create a convergence a dialogue across disciplines of mutual benefit The central theme of the Lerici workshop perhaps overly simplified was What are the mechanisms causing ambient noise at the upper surface of the ocean What could hydrodynamicists contribute to a better understanding of breaking wave dynamics bubble production ocean wave dynamics or near surface turbulence for the benefit of the underwater acoustics community What further insights could fluid dynamicists gain by including acoustic measurements in their repertoire of instrumentation While every attendee will have his or her perceptions of details it was universally agreed that a valuable step had been taken to bring together two mature disciplines and that significant cooperative studies would undoubtedly follow The scope of the workshop was enlarged beyond its original intent to also include the question of ice noise generation The success of this decision can be seen in high quality of the presentations the contribution of its disciples in the other workshop discussions and the heightened awareness and interest of we other novices

NATO Advanced Research Workshop on Sea Surface Sound, Natural Mechanisms of Surface Generated Noise in the Ocean NATO.,OTAN.,1988 **Sea Surface Sound '94 - Proceedings Of The Iii International Meeting On Natural**

Physical Processes Related To Sea Surface Sound Michael J Buckingham, J R Potter, 1996-01-11 Understanding and constructively using natural sound in the ocean has become of prime importance with the shift of emphasis to protecting the environment and exercising responsible global resource management which has followed the end of the Cold War Especially now that we realise that marine mammals and other inhabitants of the oceans are threatened by our acoustic pollution of their environment the use of natural sound as a non intrusive remote sensing probe has become particularly germane This was the first meeting on the subject since the fall of Soviet Western barriers and the proceedings include significant work from premier researchers in the former Soviet Union It was also the first meeting which specifically addressed the new and exciting idea of using natural sound in applications for monitoring the marine environment The proceedings include a number of papers on various aspects of this topic Further new work on the basic physics of sound production and propagation is also included This volume includes leading edge work from the foremost researchers in the field including Bill Carey Lawrence Crum Nikolai Dubrovskii David Farmer Brian Kerman Bill Kuperman Michael Longuet Higgins Hank Medwin Ken Melville A Prosperetti and many others

Natural Physical Sources of Underwater Sound B.R. Kerman, 2012-12-06 To place this book in perspective it is useful for the reader to be aware of the recent history of the topic of underwater sound generation at the ocean surface by natural mechanisms A meeting in Lerici Italy in 1987 was convened within the NATO Advanced Research Workshop series to bring together underwater acousticians and ocean hydrodynamicists to examine various mechanisms which generate sound naturally at the ocean surface A record of that meeting was published in the NATO scientific publication series in 1988 under the title Sea Surface Sound That meeting was successful in inspiring and co ordinating both participants and non attending colleagues to examine some key issues which were raised during the course of presentations and discussions The understanding among those present was that another meeting should be convened 3 years hence to report and review progress in the subject Accordingly the second conference was convened in Cambridge in 1990 whose proceedings are presented here This volume represents a very gratifying increase in only a 3 year interval in our understanding of a number of physical processes which generate sound at the peripheries of oceans In fact it represents both the acceleration of singular effort as well as the development of interdisciplinary sophistication and co operation The enthusiasm goodwill and intense scientific curiosity which characterized the Lerici meeting carried through to Cambridge The collegial atmosphere established by the participants was perfectly timed to foster another major advance in studies of ocean surface sound

Underwater Acoustic Modeling and Simulation, Fifth Edition Paul C. Etter, 2018-03-15 This newest edition adds new material to all chapters especially in mathematical propagation models and special applications and inverse techniques It has updated environmental acoustic data in companion tables and core summary tables with the latest underwater acoustic propagation noise reverberation and sonar performance models Additionally the text discusses new applications including underwater acoustic networks and channel models marine

hydrokinetic energy devices and simulation of anthropogenic sound sources It further includes instructive case studies to demonstrate applications in sonar simulation **Computational Ocean Acoustics** Finn B. Jensen, William A. Kuperman, Michael B. Porter, Henrik Schmidt, 2000-03-23 Many practical suggestions and tips the examples are meaningful and the illustrations are effective Destined to become a classic reference that any serious practitioner of ocean acoustics cannot afford to ignore Revue de livre Authored by four internationally renowned scientists this volume covers 20 years of progress in computational ocean acoustics and presents the latest numerical techniques used in solving the wave equation in heterogeneous fluid solid media The authors detail various computational schemes and illustrate many of the fundamental propagation features via 2 D color displays **Underwater Acoustic Modelling and Simulation, Third Edition** P.C. Etter, 2003-12-08 Underwater Acoustic Modeling and Simulation examines the translation of our physical understanding of sound in the sea into mathematical models that can simulate acoustic propagation noise and reverberation in the ocean These models are used in a variety of research and operational applications to predict and diagnose the performance of complex sonar systems operating in the undersea environment Previous editions of the book have provided invaluable guidance to sonar technologists acoustical oceanographers and applied mathematicians in the selection and application of underwater acoustic models Now that simulation is fast becoming an accurate efficient and economical alternative to field testing and at sea training this new edition will also provide useful guidance to systems engineers and operations analysts interested in simulating sonar performance Guidelines for selecting and using available propagation noise and reverberation models are highlighted Specific examples of each type of model are discussed to illustrate model formulations assumptions and algorithm efficiency Instructive case studies demonstrate applications in sonar simulation *Theoretical and Applied Mechanics* 1996 E. Watanabe, T. Kambe, T. Tatsumi, 1997-04-25 These proceedings present an up to date and comprehensive review of the field of theoretical and applied mechanics All the papers are written by leading experts presently active in this subject area **Breaking Waves** Michael L. Banner, Roger H.J. Grimshaw, 2012-12-06 Wave breaking is a commonly occurring phenomena associated with wave motion in fluids often inducing significant effects which are of fundamental and technological importance A familiar illustration is provided with white capping and microbreaking of the wind driven ocean surface waves which is believed to play an important part in the transfers of momentum mass and heat across the air sea interface as well as in the production of underwater ambient noise and augmented microwave backscatter The enhanced hydrodynamic forces associated with the breaking of the more energetic ocean wave components constitute a significant challenge in ocean engineering coastal engineering and naval architecture Other less conspicuous but equally important manifestations are the breaking of internal waves and the filamentation of vorticity interfaces Despite recent theoretical and observational progress towards a more complete understanding of wave breaking mathematical descriptions of its onset and consequences are presently lacking The aim of this Symposium was to bring together theoretical and observational expertise

with the goal of determining the current state of knowledge of wave breaking and providing a stimulus to future research. The Symposium focused on water waves of all scales from capillary waves to ocean swell but also considered internal waves and the filamentation of vorticity interfaces. Specific topics included were Fundamental theoretical studies, wave instabilities, routes to breaking, Models of wave breaking, Field observations including statistical information, Laboratory studies, Shoaling, waves breaking, waves on currents, breaking induced by the motion of a ship.

The Acoustic Bubble T Leighton, 2012-12-02. The Acoustic Bubble describes the interaction of acoustic fields with bubbles in liquid. The book consists of five chapters. Chapter 1 provides a basic introduction to acoustics including some of the more esoteric phenomena that can be seen when high frequency high intensity underwater sound is employed. Chapter 2 discusses the nucleation of cavitation and basic fluid dynamics while Chapter 3 draws together the acoustics and bubble dynamics to discuss the free oscillation of a bubble and acoustic emissions from such activity. The acoustic probes that are often applied to study the behavior of a bubble when an externally applied acoustic field drives it into oscillation is deliberated in Chapter 4. The last chapter outlines a variety of effects associated with acoustically induced bubble activity. The bubble detection, sonoluminescence, sonochemistry and pulse enhancement are also covered. This publication is a good reference for physics and engineering students and researchers intending to acquire knowledge of the acoustic interactions of acoustic fields with bubbles.

Ocean Ambient Noise William M. Carey, Richard B. Evans, 2011-03-23. This monograph develops the theory of noise mechanisms and measurements and describes general noise characteristics and computational methods. The vast ambient noise literature is concisely summarized using theory combined with key representative results. The air-sea boundary interaction zone is described in terms of nondimensional variables requisite for future experiments. Noise field coherency, rare directional measurements and unique basin scale computations and methods are presented. The use of satellite measurements in these basin scale models is demonstrated. A series of appendices provides in depth mathematical treatments which will be of interest to graduate students and active researchers.

The Shock and Vibration Digest, 1990. **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.

Breaking and Dissipation of Ocean Surface Waves Alexander Babanin, 2011-05-19. Wave breaking represents one of the

most interesting and challenging problems for fluid mechanics and physical oceanography Over the last fifteen years our understanding has undergone a dramatic leap forward and wave breaking has emerged as a process whose physics is clarified and quantified Ocean wave breaking plays the primary role in the air sea exchange of momentum mass and heat and it is of significant importance for ocean remote sensing coastal and ocean engineering navigation and other practical applications This book outlines the state of the art in our understanding of wave breaking and presents the main outstanding problems It is a valuable resource for anyone interested in this topic including researchers modellers forecasters engineers and graduate students in physical oceanography meteorology and ocean engineering

Laboratory Measurements of the Sound Generated by Breaking Waves Mark Richard Loewen,1992

Wave Interactions As a Seismo-acoustic Source Alick C. Kibblewhite,Cheng Y. Wu,2006-04-10 This book gives a comprehensive theoretical account of the wave wave interaction process responsible for high acoustic noise levels including a geometric description of the interaction mechanism which provides the basis for a full wave analysis of the source process the inclusion of both the monogeneous and inhomogeneous components of the wave induced pressure field in the analytical description of the source an examination of the relative contributions of the sum and difference frequency components of the wave interaction process the removal of the deep water assumption of earlier analyses and the development of an exact analytical expression which allows the source function of the wave induced pressure field to be calculated over the whole frequency wave number domain

Digital Sonar Design in Underwater Acoustics Qihu Li,2012-03-05 Digital Sonar Design in Underwater Acoustics Principles and Applications provides comprehensive and up to date coverage of research on sonar design including the basic theory and techniques of digital signal processing basic concept of information theory ocean acoustics underwater acoustic signal propagation theory and underwater signal processing theory This book discusses the general design procedure and approaches to implementation the design method system simulation theory and techniques sonar tests in the laboratory lake and sea and practical validation criteria and methods for digital sonar design It is intended for researchers in the fields of underwater signal processing and sonar design and also for navy officers and ocean explorers Qihu Li is a professor at the Institute of Acoustics Chinese Academy of Sciences and an academician of the Chinese Academy of Sciences

Ocean Reverberation Dale D. Ellis,John R. Preston,H.G. Urban,2012-12-06 During the past decade there has been a renewed interest in active sonar systems at both low and medium frequencies More recently this interest has been extended to very high frequencies in shallow water Reverberation often limits the detection performance of these systems and there is a need to understand the underlying mechanisms that cause the scattering With more emphasis being given to reverberation phenomena in the Scientific Program of Work at the SACLANT Undersea Research Centre it was considered an opportune time to host a meeting bringing together scientists from NATO countries to foster cross disciplinary dialogue and generate ideas for new research directions Consequently the Ocean Reverberation Symposium was held 25 29 May 1992 in La Spezia

Italy Over 60 presentations were made on a diverse selection of topics of which ten papers will be published as a SACLANTCEN Conference Proceedings The papers in this volume are grouped into 8 sections usually in the same order as presented at the corresponding session of the Symposium Section 1 Scattering Mechanisms Section 2 High Frequency Measurements and Mechanisms Section 3 Reverberation Modelling Section 4 ARSRP Mid Atlantic Ridge Experiment Section 5 Low Frequency Measurements Section 6 Volume Scattering Section 7 Signal Processing Issues Section 8 Applications Taken together the papers show some emerging trends in the research **Recent Library Additions** ,1988

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