

RADAR SCATTERING FROM MODULATED WIND WAVES

*Proceedings of the Workshop on
Modulation of Short Wind Waves in the Gravity-Capillary Range
by Non-Uniform Currents, held in Bergen aan Zee, The Netherlands,
24-26 May 1988*

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Radar Scattering From Modulated Wind Waves:

Radar Scattering from Modulated Wind Waves G.J. Komen, W.A. Oost, 2012-12-06 Ten years ago de Loor and co workers at TNO The Netherlands were the first to report bottom topography patterns in real aperture radar RAR images of the southern North Sea At that time this was a real puzzle The skin depth of microwaves for sea water is only of the order of centimeters while the sea bottom is about 20 meters below the surface Electromagnetic radiation therefore cannot probe the bottom directly Similar phenomena were found in radar imagery from SEASAT and SIR ALB synthetic aperture radars SAR s of Nantucket Shoals the English Channel and many other coastal areas Since then theory and ocean field experiments Le Phelps Bank Georgia Straits SARSEX TOWARD FASINEX etc have advanced our understanding considerably We now know that these surface signatures are the results of surface currents perturbed by the bottom topography which refract the propagation and modulate the energy of short surface waves so as to cause microwave backscatter power variations Hence any large scale ocean features containing nonuniform surface currents i e internal waves eddies fronts etc will cause similar manifestations in the radar imagery by means of current wave microwave interactions Observations confirm this

Transcript of Workshop on Wind-Wave Hindcasting and Forecasting Models, 1981 *A Study of Capillary and Capillary-gravity Wind Waves* Xin Zhang, 1993 **Report of NRL Progress** Naval Research Laboratory (U.S.), 1975

From Decoding Turbulence to Unveiling the Fingerprint of Climate Change Hans von Storch, 2022-06-01 This open access book serves as a reference for the key elements and their significance of Klaus Hasselmann s work on climate science and on ocean wave research all based on a rigorous and deeply physical thinking It summarizes the original articles mostly from the 1970 and 1980s some of which are hard to find nowadays and brings them in a present day context From 1975 until 2000 he was founding Director of the Max Planck Institute of Meteorology which he made to one of the world leading academic institutions He first made the issue of anthropogenic climate change accessible to analysis and prediction and later transformed climate science into a significant factor in forming public policy The book is written by co workers and colleagues of Klaus Hasselmann who many under his immediate supervision joined him in this effort With this background they present the key achievements and assess the significance of these for the present state of knowledge and scientific practice *Measuring Ocean Currents* Antony Joseph, 2013-08-12 *Measuring Ocean Currents Tools Technologies and Data* covers all major aspects of ocean current measurements in view of the implications of ocean currents on changing climate increasing pollution levels and offshore engineering activities Although more than 70% of the Earth is covered by ocean there is limited information on the countless fine to large scale water motions taking place within them This book fills that information gap as the first work that summarizes the state of the art methods and instruments used for surface subsurface and abyssal ocean current measurements Readers of this book will find a wealth of information on Lagrangian measurements horizontal mapping imaging Eulerian measurements and vertical profiling techniques In addition the book describes modern

technologies for remote measurement of ocean currents and their signatures including HF Doppler radar systems satellite borne sensors ocean acoustic tomography and more Crucial aspects of ocean currents are described in detail as well including dispersion of effluents discharged into the sea and transport of beneficial materials as well as environmentally hazardous materials from one region to another The book highlights several important practical applications showing how measurements relate to climate change and pollution levels how they affect coastal and offshore engineering activities and how they can aid in tsunami detection Coverage of measurement mapping and profiling techniques Descriptions of technologies for remote measurement of ocean currents and their signatures Reviews crucial aspects of ocean currents including special emphasis on the planet spanning thermohaline circulation known as the ocean's conveyor belt and its crucial role in climate change

Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Marine Light Field Statistics Ronald E. Walker, 1994-08-29 A comprehensive treatment of the light field fluctuations observed below and above the ocean surface caused by air sea interaction effects which are light reflection and refraction from the wind roughened sea under clear and overcast conditions as well as whitecaps Natural light reflected from the sea surface is used to demonstrate how some mathematical procedures can be adapted to model and interpret statistical properties of reflected light Contains the latest developments regarding hydrologic optics including bi optical water characteristics

Hydraulic Research in the United States and Canada, 1976 Pauline H. Gurewitz, 1978

Coastal Processes III G. R. Rodriguez, 2013 Containing papers presented at the Third International Conference on Physical Coastal Processes Management and Engineering this book examines coastal zone dynamics which involve complex interactions between the atmosphere ocean and land Management of coastal zones is dependent on a number of factors Large temporal and spatial differences in air sea exchange processes and wind strength and direction result from the complex interactions referred to above Recreational and tourism activities make demands on coastal areas With the number and frequency of extreme events due increases with climate change their role in changing coastal zones also needs to be considered The book considers also of these and covers such topics as Wave modelling Hydrodynamic modelling Effects of climate change in coastal zones Coastal defences Energy recovery Sediment transport and erosion Pollution and water quality Planning and beach design Coastal morphology Coastal processes and navigation Coastal processes and GIS Bio physical coastal processes Remote sensing Systems approach Coastal zone management Impact and recovery from tsunamis Impact of storms and extreme events Ecosystems modelling Coastal lagoons Coastal oceanography Socio environmental issues

Measuring the Oceans from Space Ian S. Robinson, 2004-06-30 This book covers the fundamental principles of measuring oceans from space and also contains state of the art developments in data analysis and interpretation and in sensors Completely new will be material covering advances in oceanography that have

grown out of remote sensing including some of the global applications of the data The variety of applications of remotely sensed data to ocean science has grown significantly and new areas of science are emerging to exploit the global datasets being recovered by satellites particularly in relation to climate and climate change basin scale air sea interaction processes e g El Nino and the modelling forecasting and prediction of the ocean

Radar Imaging of the Ocean Waves Mikhail B. Kanevsky, 2008-09-15 This book is dedicated to studying the ocean with radar tools in particular with space radars Being intended mainly for the scientists preoccupied with the problem as well as senior course students it concentrates and generalizes the knowledge scattered over specialized journals The significant part of the book contains the results obtained by the author Systematically collects and describes the approaches used by different laboratories and institutions Deals with the physics of radar imagery and specifically with ocean surface imagery Useful for students and researchers specializing in the area of ocean remote sensing using airborne or space borne radars both SAR and RAR Digest, 1997 **NBS Special Publication**, 1978

Hydraulic Research in the United States and Canada United States. National Bureau of Standards, 1976 IGARSS '97 IEEE Geoscience and Remote Sensing Society, 1997

Directional Wavenumber Characteristics of Short Sea Waves Nicole Marie Suoja, 2000 Short waves on the ocean surface play an important role in surface electromagnetic e m scattering Electromagnetic scattering theory is well developed but the short wavelength portion of the surface wave field has only recently been experimentally explored and a single consistent model of the wave height spectrum has yet to be developed A new instrument was developed to measure the height of waves with 2 30 cm wavelengths at an array of locations which can be post processed to generate an estimate of the two dimensional wave height spectrum

12e Symposium Canadien Sur la Télédetection, July 10-14th, 1989, Vancouver, Canada, 1989 **IGARSS.**, 1996 **IGARSS '95**, 1995

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