

Measuring the Oceans from Space

**The principles and methods
of satellite oceanography**

Ian S. Robinson



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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 Measuring the Oceans from Space I. S. Robinson, 2001 The SAGE Handbook of Remote Sensing Timothy A Warner, M Duane Nellis, Giles M Foody, 2009-06-18 A magnificent achievement A who's who of contemporary remote sensing have produced an engaging wide ranging and scholarly review of the field in just one volume Professor Paul Curran Vice Chancellor Bournemouth University Remote Sensing acquires and interprets small or large scale data about the Earth from a distance Using a wide range of spatial spectral temporal and radiometric scales Remote Sensing is a large and diverse field for which this Handbook will be the key research reference Organized in four key sections Interactions of Electromagnetic Radiation with the Terrestrial Environment chapters on Visible Near IR and Shortwave IR Middle IR 3-5 micrometers Thermal IR Microwave Digital sensors and Image Characteristics chapters on Sensor Technology Coarse Spatial Resolution Optical Sensors Medium Spatial Resolution Optical Sensors Fine Spatial Resolution Optical Sensors Video Imaging and Multispectral Digital Photography Hyperspectral Sensors Radar and Passive Microwave Sensors Lidar Remote Sensing Analysis Design and Implementation chapters on Image Pre Processing Ground Data Collection Integration with GIS Quantitative Models in Remote Sensing Validation and accuracy assessment Remote Sensing Analysis Applications LITHOSPHERIC SCIENCES chapters on Topography Geology Soils PLANT SCIENCES Vegetation Agriculture HYDROSPHERIC and CRYOSPHERIC SCIENCES Hydrosphere Fresh and Ocean Water Cryosphere GLOBAL CHANGE AND HUMAN ENVIRONMENTS Earth Systems Human Environments Real Time Monitoring Systems and Disaster Management Land Cover Change Illustrated throughout an essential resource for the analysis of remotely sensed data the SAGE Handbook of Remote Sensing provides researchers with a definitive statement of the core concepts and methodologies in the discipline

Dam Disaster Monitoring from Space Maged Marghany, 2025-10-22 A groundbreaking synthesis of science technology and geopolitics this book delivers an unprecedented analysis of the Grand Ethiopian Renaissance Dam GERD Leveraging advanced quantum computing radar interferometry and remote sensing including Sentinel 1 ICEYE and TerraSAR X this work reveals hidden structural vulnerabilities in GERD and models catastrophic breach scenarios Featuring the original Marghany Hologram TomoSAR algorithm and new quantum phase unwrapping methods it offers critical insights into environmental engineering and military dimensions From sediment saturation to seismic risk and from biblical prophecy

to regional diplomacy this book challenges conventional narratives and opens new frontiers in monitoring forecasting and strategic response to GERD s evolving dynamics *Comprehensive Remote Sensing* Shunlin Liang,2017-11-08

Comprehensive Remote Sensing Nine Volume Set covers all aspects of the topic with each volume edited by well known scientists and contributed to by frontier researchers It is a comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline The field of remote sensing has quadrupled in size in the past two decades and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers oceanographers and meteorologists to physicists and computer scientists Researchers from a variety of backgrounds are now accessing remote sensing data creating an urgent need for a one stop reference work that can comprehensively document the development of remote sensing from the basic principles modeling and practical algorithms to various applications Fully comprehensive coverage of this rapidly growing discipline giving readers a detailed overview of all aspects of Remote Sensing principles and applications Contains Layered content with each article beginning with the basics and then moving on to more complex concepts Ideal for advanced undergraduates and academic researchers Includes case studies that illustrate the practical application of remote sensing principles further enhancing understanding **Sea Ice** Mohammed

Shokr,Nirmal Sinha,2015-03-16 *Sea Ice Physics and Remote Sensing* addresses experiences acquired mainly in Canada by researchers in the fields of ice physics and growth history in relation to its polycrystalline structure as well as ice parameters retrieval from remote sensing observations The volume describes processes operating at the macro and microscale e g brine entrapment in sea ice crystallographic texture of ice types brine drainage mechanisms etc The information is supported by high quality photographs of ice thin sections prepared from cores of different ice types all obtained by leading experts during field experiments in the 1970s through the 1990s using photographic cameras and scanning microscopy In addition this volume presents techniques to retrieve a suite of sea ice parameters e g ice type concentration extent thickness surface temperature surface deformation etc from space borne and airborne sensor data The breadth of the material on this subject is designed to appeal to researchers and users of remote sensing data who want to develop quick familiarity with the capabilities of this technology or detailed knowledge about major techniques for retrieval of key ice parameters Volume highlights include Detailed crystallographic classification of natural sea ice the key information from which information about ice growth conditions can be inferred Many examples are presented with material to support qualitative and quantitative interpretation of the data Methods developed for revealing microstructural characteristics of sea ice and performing forensic investigations Data sets on radiative properties and satellite observations of sea ice its snow cover and surrounding open water Methods of retrieval of ice surface features and geophysical parameters from remote sensing observations with a focus on critical issues such as the suitability of different sensors for different tasks and data synergism *Sea Ice Physics and Remote Sensing* is intended for a variety of sea ice audiences interested in different aspects of ice related to physics

geophysics remote sensing operational monitoring mechanics and cryospheric sciences Computer Processing of Remotely-Sensed Images Paul M. Mather, Magaly Koch, 2022-04-11 Computer Processing of Remotely Sensed Images A thorough introduction to computer processing of remotely sensed images processing methods and applications Remote sensing is a crucial form of measurement that allows for the gauging of an object or space without direct physical contact allowing for the assessment and recording of a target under conditions which would normally render access difficult or impossible This is done through the analysis and interpretation of electromagnetic radiation EMR that is reflected or emitted by an object surveyed and recorded by an observer or instrument that is not in contact with the target This methodology is particularly of importance in Earth observation by remote sensing wherein airborne or satellite borne instruments of EMR provide data on the planet's land seas ice and atmosphere This permits scientists to establish relationships between the measurements and the nature and distribution of phenomena on the Earth's surface or within the atmosphere Still relying on a visual and conceptual approach to the material the fifth edition of this successful textbook provides students with methods of computer processing of remotely sensed data and introduces them to environmental applications which make use of remotely sensed images The new edition's content has been rearranged to be more clearly focused on image processing methods and applications in remote sensing with new examples including material on the Copernicus missions microsatellites and recently launched SAR satellites as well as time series analysis methods The fifth edition of Computer Processing of Remotely Sensed Images also contains A cohesive presentation of the fundamental components of Earth observation remote sensing that is easy to understand and highly digestible Largely non technical language providing insights into more advanced topics that may be too difficult for a non mathematician to understand Illustrations and example boxes throughout the book to illustrate concepts as well as revised examples that reflect the latest information References and links to the most up to date online and open access sources used by students Computer Processing of Remotely Sensed Images is a highly insightful textbook for advanced undergraduates and postgraduate students taking courses in remote sensing and GIS in Geography Geology and Earth Environmental Science departments **Discovering the Ocean from Space** Ian S. Robinson, 2010-08-12 This book offers a survey of the contribution of satellite data to the study of the ocean focusing on the special insights that only satellite data can bring to oceanography Topics range from ocean waves to ocean biology spanning scales from basins to estuaries Some chapters cover applications to pure research while others show how satellite data can be used operationally for tasks such as pollution monitoring or oil spill detection The British National Bibliography Arthur James Wells, 2004 **Encyclopedia of Global Resources** , 2010 **Top Predator "hot Spots" in the North Pacific** , 2006 *Discovering the Ocean from Space* Ian Stuart Robinson, 2010 **Indian Journal of Marine Sciences** , 2005 **Oceanography from Space** Vittorio Barale, J.F.R. Gower, L. Alberotanza, 2010-04-26 To all those sailors Who dreamed before us Of another way to sail the oceans The dedication of this Volume is meant to recall and honour the bold pioneers of

ocean exploration ancient as well as modern As a marine scientist dealing with the oceans through the complex tools lters and mechanisms of contemporary research I have always wondered what it was like in centuries past to look at that vast horizon with the naked eye not knowing what was ahead and yet to sail on I have tried to imagine what ancient sailors felt when the unknown swirls around and engulfs the mind as a forgotten author simply described the brave perhaps reckless act of facing such a hostile menacing and yet fascinating adventure Innovation has always been the key element I think for their success another way a better way a more effective safer and worthier way was the proper answer to the challenge The map of our world has been changed time and again from the geographical as well as the social economic and scientific points of view by the new discoveries of those sailors One of the positive qualities of human beings is without doubt the inborn desire to expand their horizons to see what lies beyond to learn and understand

Introduction to satellite oceanography G.A. Maul,1984-11-30 Satellite oceanography as the term is used in this book is a generic term that means application of the technology of aerospace electromagnetic remote sensing to the study of the oceans The key words here are application of technology to the study of the oceans The goal is to learn more about our planet's hydrosphere As such remote sensing technology is another tool in the oceanographer's sea bag just like a bathythermograph or a plankton net But is a whole book necessary if remote sensing is just another tool While it is true that no one has written a whole book on plankton nets volumes have been written about what is found in those nets Today's state of the art measurements from spacecraft or aircraft first must be interpreted in terms of their physics then the interpretations must be understood in terms of oceanic processes This is not materially different from the analogy to the plankton net marine biologists still argue about what didn't get caught in the net

Introduction to Satellite Oceanography George A. Maul,1985 Observing the Oceans in Real Time R. Venkatesan,Amit Tandon,Eric D'Asaro,M. A. Atmanand,2017-11-17 This book provides contributions from leading experts on the integration of novel sensing technologies to yield unprecedented observations of coupled biological chemical and physical processes in the ocean from the macro to micro scale Authoritative entries from experts around the globe provide first hand information for oceanographers and researchers looking for solutions to measurement problems Ocean observational techniques have seen rapid advances in the last few years and this book addresses the need for a single overview of present and future trends in near real time and real time First the past present and future scenarios of ocean observational tools and techniques are elucidated Then this book divides into three modes of ocean observations surface upper ocean and deep ocean This is followed by data quality and modelling Collecting a summary of methods and applications this book provides first hand information for oceanographers and researchers looking for solutions to measurement problems This book is also suitable for final year undergraduate students or beginning graduate students in ocean engineering oceanography and various other engineering students such as Mechanical Civil Electrical and Bioengineering who are interested in specializing their skills towards modern measurements of the ocean

Measurement

for the Sea Pasquale Daponte, Giovanni Battista Rossi, Vincenzo Piscopo, 2022-01-24 In the history of humankind the sea has always played a key role as a privileged medium for communication commerce and contact among population centers It constitutes an essential ecosystem and an invaluable reservoir and source of food for all living beings Therefore its health is a critical challenge for the survival of all humanity particularly as one the most important environmental components targeted by global warming Measuring and monitoring techniques are key tools for managing the marine environment and for supporting the Blue Economy With this perspective a series of annual international events entitled Metrology for the Sea MetroSea for short was begun in 2017 Their increasing success inspired this book which provides an anthology of tutorials dealing with a representative selection of topics of concern to a broad readership The book covers two broad application areas marine hydrography and meteorology and then deals with instrumentation for measurement at sea Typical metrological issues such as calibration and traceability are considered for both physical and chemical quantities Key techniques such as underwater acoustic investigation remote sensing measurement of waves and monitoring networks are treated alongside marine geology and the monitoring of animal species Economic and legal aspects of metrology for navigation are also discussed Such an unparalleled wide vision of measurement for the sea will be of interest to a broad audience of scientists engineers economists and their students Oceanography from Space J. F. Gower, 1981 This volume is based on the proceedings of the COSPAR SCOR IUCRM Symposium Oceanography From Space held in May 1980 in Venice Italy COSPAR The Committee for Space Research suggested holding a joint symposium with SCOR The Scientific Committee for Oceanic Research as a major review of space oceanography Since this meeting fitted well with a series of colloquia organized by the IUCRM The Inter Union Commission on Radio Meteorology these three bodies joined in sponsoring the meeting The conference was held 16 years after the first discussions of possible spaceborne observations of the ocean at a meeting organized in 1964 in Woods Hole Gifford Ewing was then keen to see oceanography benefit from the new satellite technology being developed and he begins this volume by noting that most of the suggestions put forward in 1964 have now at last been successfully demonstrated in practice The papers that follow show the variety of measurement techniques available or possible and many of the types of studies in which they can be used Papers are arranged in a general section and in 6 specialized sections each of which starts with a brief introduction summarizing important results Methods of Satellite Oceanography Robert H. Stewart, 1985

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