

V. Barale - J. F. R. Gower  
L. Alberotanza (Eds.)



# Oceanography from Space

Revisited

 Springer

# **Oceanography From Space Revisited**

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## **Oceanography From Space Revisited:**

**Oceanography from Space** J. F. Gower, 2013-03-07 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

**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, methods 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

**Oceanography from Space** Vittorio Barale, J.F.R. Gower, L. Alberotanza, 2014-11-06 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, methods 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

**An Introduction to Ocean Remote Sensing** Seelye Martin, 2014-03-27 Covering significant new advances in satellite oceanography this new edition introduces remote sensing for graduate and advanced undergraduate students

**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

Oceanography from Space J. F. R. Gower, 1981

**Advances in Passive Microwave Remote Sensing of Oceans** Victor Raizer, 2024-09-05 This new edition introduces the fundamentals of passive microwave remote sensing of oceans including the physical principles of microwave radiometry novel observational data their interpretation and applications It not only demonstrates and examines the recent advantages and state of the art of microwave data but also provides guidance for explaining complex ocean studies and advanced applications All chapters are thoroughly updated with detailed analysis of space based microwave missions and a new chapter on space based microwave radiometer experiments has been added This book discusses the power of microwave remote sensing as an efficient tool for diagnostics of ocean phenomena in research and education

Features New to this Edition Includes a new chapter and additional data images illustrations and references Uses ocean microwave data acquired from different platforms to illustrate different methods of analysis and interpretation Updates information on recent and important satellite missions dedicated to microwave remote sensing of oceans Offers more detailed analysis of multiband microwave data and images Provides examples of microwave data that cover different ocean environmental phenomena and hydro physical fields including global and local ocean features Presents additional material on advanced applications including detection capabilities This book is intended for postgraduate students and professionals working in fields related to remote sensing geography oceanography civil environmental and geotechnical engineering

Coral Reef Remote Sensing James A. Goodman, Samuel J. Purkis, Stuart R. Phinn, 2013-04-18 Remote sensing stands as the defining technology in our ability to monitor coral reefs as well as their biophysical properties and associated processes at regional to global scales With overwhelming evidence that much of Earth's reefs are in decline our need for large scale repeatable assessments of reefs has never been so great Fortunately the last two decades have seen a rapid expansion in the ability for remote sensing to map and monitor the coral reef ecosystem its overlying water column and surrounding environment Remote sensing is now a fundamental tool for the mapping monitoring and management of coral reef ecosystems Remote sensing offers repeatable quantitative assessments of habitat and environmental characteristics over

spatially extensive areas As the multi disciplinary field of coral reef remote sensing continues to mature results demonstrate that the techniques and capabilities continue to improve New developments allow reef assessments and mapping to be performed with higher accuracy across greater spatial areas and with greater temporal frequency The increased level of information that remote sensing now makes available also allows more complex scientific questions to be addressed As defined for this book remote sensing includes the vast array of geospatial data collected from land water ship airborne and satellite platforms The book is organized by technology including visible and infrared sensing using photographic multispectral and hyperspectral instruments active sensing using light detection and ranging LiDAR acoustic sensing using ship autonomous underwater vehicle AUV and in water platforms and thermal and radar instruments Emphasis and Audience This book serves multiple roles It offers an overview of the current state of the art technologies for reef mapping provides detailed technical information for coral reef remote sensing specialists imparts insight on the scientific questions that can be tackled using this technology and also includes a foundation for those new to reef remote sensing The individual sections of the book include introductory overviews of four main types of remotely sensed data used to study coral reefs followed by specific examples demonstrating practical applications of the different technologies being discussed Guidelines for selecting the most appropriate sensor for particular applications are provided including an overview of how to utilize remote sensing data as an effective tool in science and management The text is richly illustrated with examples of each sensing technology applied to a range of scientific monitoring and management questions in reefs around the world As such the book is broadly accessible to a general audience as well as students managers remote sensing specialists and anyone else working with coral reef ecosystems

Oceanobs'19: An Ocean of Opportunity. Volume I Tong Lee, Sabrina Speich, Laura Lorenzoni, Sanae Chiba, Frank E. Muller-Karger, Minhan Dai, Amos T. Kabo-Bah, John Siddorn, Justin Manley, Maria Snoussi, Fei Chai, 2020-12-31 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org](mailto:frontiersin.org) about contact

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

**Remote Sensing of the Asian Seas** Vittorio Barale,Martin Gade,2018-09-07 A wide variety of marginal basins ranging from polar to equatorial regions and a few sizeable enclosed basins can all be included among the Asian Seas The Arctic Ocean shelf seas off Siberia the sheltered basins along the Pacific Ocean s western rim the coastal seas of the northernmost Indian Ocean including the semi enclosed Red Sea and Persian Gulf the Caspian Sea the remnants of the Aral Sea and a score of brackish or freshwater lakes such as Lake Balkhash and Lake Baykal all exhibit a multiplicity of environmental features and processes Understanding the peculiarities of such a large and varied collection of marine and coastal types requires integrated observation systems among which orbital remote sensing must play an essential role This volume reviews the current potential of Earth Observations in assessing the many Asian seascapes using both passive and active techniques in diverse spectral regions such as measuring reflected visible and near infrared sunlight and surface emissions in the thermal infrared and microwave range or surface reflection of transmitted radar pulses in the microwave range An in depth evaluation of the available spectral regions and observation techniques as well as of novel multi technique methods ensures that suitable tools are indeed accessible for exploring and managing the wealth of resources that the Asian Seas have to offer

**The Near-Surface Layer of the Ocean** Alexander Soloviev,Roger Lukas,2013-12-09 The rationale for publishing a second edition of this monograph is that this area of research continues to show remarkable advancement The new generation of synthetic aperture radar satellites has provided unprecedented spatial resolution of sea surface features In addition satellites to measure sea surface salinity have been launched Computational fluid dynamics models open new opportunities in understanding the processes in the near surface layer of the ocean and their visibility from space Passive acoustic methods for monitoring short surface waves have significantly progressed Of importance for climate research processes in the near surface layer of the ocean contribute to errors in satellite estimates of sea surface temperature trends Due to growing applications of near surface science it is anticipated that more students will be trained in this area of research Therefore this second edition of the monograph is closer to a textbook format

*Sea Surface Temperature Retrievals from Remote Sensing* Jorge Vazquez,Xiaofeng Li,2019-02-14 This book is a printed edition of the Special Issue Sea Surface Temperature Retrievals from Remote Sensing that was published in Remote Sensing

*Satellite Altimetry Over Oceans and Land Surfaces* Detlef Stammer,Anny Cazenave,2017-10-31 Satellite remote sensing in particular by radar altimetry is a crucial technique for observations of the ocean surface and of many aspects of land surfaces and of paramount importance for climate and environmental studies This book provides a state of the art overview of the satellite altimetry techniques and related missions and reviews the most up to date applications to ocean dynamics and sea level It also discusses related space based observations of the ocean surface and of the marine geoid as well as applications of satellite altimetry to the cryosphere and land surface waters operational

oceanography and its applications to navigation fishing and defense      Congress on Intelligent Systems Mukesh Saraswat, Harish Sharma, K. Balachandran, Joong Hoon Kim, Jagdish Chand Bansal, 2022-07-01 This book is a collection of selected papers presented at the Second Congress on Intelligent Systems CIS 2021 organized by Soft Computing Research Society and CHRIST Deemed to be University Bengaluru India during September 4 5 2021 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It covers topics such as Internet of things information security embedded systems real time systems cloud computing big data analysis quantum computing automation systems bio inspired intelligence cognitive systems cyber physical systems data analytics data web mining data science intelligence for security intelligent decision making systems intelligent information processing intelligent transportation artificial intelligence for machine vision imaging sensors technology image segmentation convolutional neural network image video classification soft computing for machine vision pattern recognition human computer interaction robotic devices and systems autonomous vehicles intelligent control systems human motor control game playing evolutionary algorithms swarm optimization neural network deep learning supervised learning unsupervised learning fuzzy logic rough sets computational optimization and neuro fuzzy systems      **Physical Principles of Remote Sensing** Gareth Rees, 2013 A quantitative yet accessible introduction to remote sensing techniques this new edition covers a broad spectrum of Earth science applications      **Russian-Vietnamese Oceanographic Research in the South China Sea** Vyacheslav B. Lobanov, Ruslan G. Kulinich, Galina A. Vlasova, Bui Hong Long, Le Dinh Mau, 2025-08-22 The book presents the main results of the collaboration of the V I Il'ichev Pacific Oceanological Institute Russian Academy of Sciences with marine research organizations of Vietnam since 1981 to the present in the field of oceanography marine geophysics geology and ecosystem in the Vietnam waters of the South China Sea In chronological order a historical outline of the establishment and development of this cooperation as well as the main results of joint and unilateral studies in different areas of the studied region is given The structure and dynamics of water as well as their hydrochemical hydrophysical and gas geochemical characteristics are described Data on lithology and mineralogy of bottom sediments the results of studying the geophysical fields and structure of the Earth's crust as well as extreme synoptic processes and satellite observations of the South China Sea are presented The book is addressed to a wide range of experts in the field of Earth sciences      *Current Trends in Estuarine and Coastal Dynamics* Xiao Hua Wang, Lulu Qiao, 2024-08-17 Recent Trends in Estuarine and Coastal Dynamics Observations and Modelling is a thorough reference guide on the most recent trends and developments in observing and modelling of estuaries and coastal oceans The coasts cover a diverse range of ecosystems within marine estuarine and freshwater environments They are some of the most heavily populated and visited areas and are also some of the most threatened natural habitats Human activities like sewage discharge overfishing navigation channel dredging land reclamation the construction of shipping ports and marine plastics are also responsible for coastal pollution and degradation This book focuses on current

studies on sediment transport dynamics and hydrodynamics of these environments and presents thorough case studies that aim to help students and researchers working in the field Includes worldwide contributions from experts in the field of ocean modelling and coastal management Contains real life case studies to guide students and researchers Covers the latest studies on recent developments in observing and modelling estuaries and coastal oceans

*Desalination Sustainability* Hassan Arafat, 2017-06-09 *Desalination Sustainability A Technical Socioeconomic and Environmental Approach* presents a technical socioeconomical and environmental approach that guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics based tools The book offers the technical reader an understanding of the issues related to desalination sustainability For example technology users such as public utility managers will gain the ability and tools to assess whether or not desalination is a good choice for a city or country Readers will learn new insights on a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools such as levelized cost of water LCOW calculation Decision makers will find this book to be a valuable resource for the preliminary assessment of whether renewable powered desalination is a good choice for their particular setting Presents the issues related to desalination sustainability Guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics based tools Outlines a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools Provides a roadmap for decision makers on the applicability of a desalination process at a particular setting

*Remote Sensing and Modeling* Charles W. Finkl, Christopher Makowski, 2014-09-01 This book is geared for advanced level research in the general subject area of remote sensing and modeling as they apply to the coastal marine environment The various chapters focus on the latest scientific and technical advances in the service of better understanding coastal marine environments for their care conservation and management Chapters specifically deal with advances in remote sensing coastal classifications environmental monitoring digital ocean technological advances geophysical methods geoacoustics X band radar risk assessment models GIS applications real time modeling systems and spatial modeling Readers will find this book useful because it summarizes applications of new research methods in one of the world's most dynamic and complicated environments Chapters in this book will be of interest to specialists in the coastal marine environment who deals with aspects of environmental monitoring and assessment via remote sensing techniques and numerical modeling



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## **Table of Contents Oceanography From Space Revisited**

1. Understanding the eBook Oceanography From Space Revisited
  - The Rise of Digital Reading Oceanography From Space Revisited
  - Advantages of eBooks Over Traditional Books
2. Identifying Oceanography From Space Revisited
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Oceanography From Space Revisited
  - User-Friendly Interface
4. Exploring eBook Recommendations from Oceanography From Space Revisited
  - Personalized Recommendations
  - Oceanography From Space Revisited User Reviews and Ratings
  - Oceanography From Space Revisited and Bestseller Lists
5. Accessing Oceanography From Space Revisited Free and Paid eBooks
  - Oceanography From Space Revisited Public Domain eBooks
  - Oceanography From Space Revisited eBook Subscription Services
  - Oceanography From Space Revisited Budget-Friendly Options
6. Navigating Oceanography From Space Revisited eBook Formats
  - ePub, PDF, MOBI, and More
  - Oceanography From Space Revisited Compatibility with Devices
  - Oceanography From Space Revisited Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Oceanography From Space Revisited
  - Highlighting and Note-Taking Oceanography From Space Revisited
  - Interactive Elements Oceanography From Space Revisited
8. Staying Engaged with Oceanography From Space Revisited

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Oceanography From Space Revisited
- 9. Balancing eBooks and Physical Books Oceanography From Space Revisited
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Oceanography From Space Revisited
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Oceanography From Space Revisited
  - Setting Reading Goals Oceanography From Space Revisited
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Oceanography From Space Revisited
  - Fact-Checking eBook Content of Oceanography From Space Revisited
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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