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Remote Sensing Of Sea Ice And Icebergs

Mohammed Shokr, Nirmal K. Sinha



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Remote Sensing of Sea Ice and Icebergs Simon Haykin, Edward O. Lewis, R. Keith Raney, James R. Rossiter, 1994-10-28

Describes the latest remote sensing technologies used to detect ice hazards in the marine environment map surface currents sea state and surface winds study ice dynamics over ice transportation oil spill countermeasures climate changes and ice reconnaissance Includes such technologies as acoustic sensing ice thickness measurement passive microwave remote sensing ground wave and surface based radars

Remote Sensing of Snow and Ice W. Gareth Rees, 2005-08-12 Many advances in spaceborne instrumentation remote sensing and data analysis have occurred in recent years but until now there has been no book that reflects these advances while delivering a uniform treatment of the remote sensing of frozen regions Remote Sensing of Snow and Ice identifies unifying themes and ideas in these fields and presents them in a single volume This book provides a comprehensive introduction to the remote sensing of the Earth's cryosphere Explaining why cryospheric observations are important and why remote sensing observations are essential it offers thorough surveys of the physical properties of ice and snow and of current and emerging remote sensing techniques Presenting a technical review of how the properties of snow and ice relate to remote sensing observations the book focuses on principles by which useful geophysical information becomes encoded into the electromagnetic radiation detected during the remote sensing process The author then discusses in detail the application of remote sensing methods to snow freshwater ice glaciers and icebergs The book concludes with a summary that examines what remote sensing has revealed about the cryosphere where major technical problems still exist and how these problems can be addressed *Glaciers, Sea Ice, and Ice Formation* Britannica

Educational Publishing, 2010-04-01 Glaciers and sea ice are vital to sustaining aquatic ecosystems and regulating ocean water temperature Permafrost a type of ground ice dramatically affects the infrastructure and agricultural output of several communities around the world The development of these varying formations and the interplay between them and the environment are thoughtfully considered in this fascinating volume

Remote Sensing Ice Detection Capabilities - East Coast Environmental Studies Research Funds (Canada), James R. (James Randell) Rossiter, 1995 Summarizes state of the art sensor technologies for remote sensing of sea ice and icebergs off Canada's east coast The study included four tasks determination of offshore operator needs with regard to sea ice detection a comprehensive review of available sensors description of the main technologies involved and evaluation of the reviewed sensors in relation to the operator needs The study report includes a summary of operator needs for east coast operating scenarios oil production and exploratory drilling descriptions of individual sensors in a common format including radars passive microwave sensors acoustic systems optical systems and other sensors a matrix of sensors versus needs for each scenario and a summary of suggested systems for each scenario In addition the report summarizes marine communications systems of relevance *Remote Sensing of Ice and Snow* Dorothy Hall, 2012-12-06 Remote sensing using aircraft and satellites has helped to open up to intensified scientific

scrutiny the cold and remote regions in which snow and ice are prevalent In this book the utility of remote sensing for identifying mapping and analyzing surface and subsurface properties of worldwide ice and snow features is described Emphasis is placed on the use of remote sensing for developing an improved understanding of the physical properties of ice and snow and understanding the interrelationships of cryospheric processes with atmospheric hydrospheric and oceanic processes Current and potential applications of remotely sensed data are also stressed At present all weather day and night observations of the polar regions can be obtained from sensors operating in different portions of the electromagnetic spectrum Because the approaches for analysis of remotely sensed data are not straightforward Chapter 1 serves to introduce the reader to some of the optical thermal and electrical properties of ice and snow as they pertain to remote sensing In Chapter 2 we briefly describe many of the sensors and platforms that are referred to in the rest of the book The remaining chapters deal with remote sensing of the seasonal snow cover lake and river ice permafrost glacier ice and sea ice

Sea Ice David N. Thomas, 2025-08-25 New edition of the leading resource on the Arctic and Southern Oceans with contributions from the world's experts on sea ice Sea Ice delivers insights into the very latest understanding of sea ice dynamics how we measure and model its extent the ecosystems that depend on sea ice and the effect of climate change on its distribution The book also discusses how sea ice influences the oceanography of underlying waters and the influence that sea ice has on the world's climate This newly revised and updated Fourth Edition looks at ice based food webs and the impact on global geopolitics as well as changes in human activity in the Arctic Written by a team of more than 80 of the world's leading experts from 13 countries Sea Ice includes information on Sea ice thickness distribution and snow and surface processes on sea ice The short term and long term dynamics of Arctic versus Antarctic Sea ice Current methods of satellite remote sensing of sea ice The ecology of sea ice from microbes to mammals to marine birds The cycling of contaminants across the ocean sea ice atmosphere interface In its new edition Sea Ice remains the leading multidisciplinary resource on the subject for all policy makers researchers and students with an interest in the polar regions and their role in the world's oceanic systems

Sea Ice in the Arctic Ola M. Johannessen, Leonid P. Bobylev, Elena V. Shalina, Stein Sandven, 2019-11-12 This book provides in depth information about the sea ice in the Arctic at scales from paleoenvironmental variability to more contemporary changes during the past and present centuries The book is based on several decades of research related to sea ice in the Arctic and its variability sea ice process studies as well as implications of the sea ice variability on human activities The chapters provide an extensive overview of the research results related to sea ice in the Arctic at paleo scales to more recent scales of variations as well as projections for changes during the 21st century The authors have pioneered the satellite remote sensing monitoring of sea ice and used other monitoring data in order to study monitor and model sea ice and its processes

Field Techniques for Sea-Ice Research Hajo Eicken, Maya Salganek, 2010-03-15 As much as one tenth of the world's oceans are covered with sea ice or frozen ocean water at some point during the annual cycle Sea ice thus plays an

important often defining role in the natural environment and the global climate system This book is a global look at the changes in sea ice and the tools and techniques used to measure and record those changes The first comprehensive research done on sea ice field techniques this volume will be indispensable for the study of northern sea ice and a must have for scientists in the field of climate change research Sea-Ice and Iceberg Sedimentation in the Ocean Alexander P.

Lisitzin,2012-12-06 In many geological epochs glacial sediments are widespread This type of sedimentation results from the interaction between atmosphere cryosphere hydrosphere and biosphere under temperatures ranging from 0 to 80 Two types of glacial sediments exist those from sea ice and those from icebergs Both types can be subdivided into various subfacies Most widespread in the Northern Hemisphere is the Siberian subfacies characterized by silt and clay and often misinterpreted as sediments of temperate zones This reference book for researchers working on this kind of sediments provides a complete overview of the various glacial deposits in the ocean **The Drift of Sea Ice** Matti Leppäranta,2005

The author presents in *The Drift of Sea Ice* the fundamental laws of sea ice drift which come from the material properties of sea ice and the basic laws of mechanics The resulting system of equations is analysed for the general properties of sea ice drift the free drift model and analytical models for ice drift in the presence of internal friction and the construction of numerical ice drift models is detailed The science of sea ice drift through its 100 year history to the present day is explained The text includes the geophysical theory observations from field programs and mathematical models Topics covered include the science of sea ice drift forecasting drift velocity based on volume size and shape sea ice ridging and remote sensing modelling of the ice conditions and finally the role of sea ice drift in research fields in ice covered seas oceanography marine ecology and engineering Ice in the Ocean Peter Wadhams,2014-04-21 *Ice in the Ocean* examines sea ice and icebergs and their role in the global climate system It is a comprehensive textbook suitable for students pure and applied researchers and anyone interested in the polar regions the oceans and climate The author examines the distribution of sea ice its mechanisms of growth development and decay the thermodynamics and dynamics of sea ice sea ice deformation and ridge building the role of marginal ice zones the characteristics of icebergs and the part played by sea ice in the climate system and in the transport of pollutants An extensive reference list recommendations for further reading and numerous illustrations add to the value of the text *Sea Ice* Mohammed Shokr,Nirmal K. Sinha,2023-04-20 *SEA ICE* The latest edition of the gold standard

in sea ice references In the newly revised second edition of *Sea Ice Physics and Remote Sensing* a team of distinguished researchers delivers an in depth review of the features and structural properties of ice as well as the latest advances in geophysical sensors ice parameter retrieval techniques and remote sensing data The book has been updated to reflect the latest scientific developments in macro and micro scale sea ice research For this edition the authors have included high quality photographs of thin sections from cores of various ice types as well as a comprehensive account of all major field expeditions that have systematically surveyed sea ice and its properties Readers will also find A thorough introduction to ice

physics and physical processes including ice morphology and age based structural features Practical discussions of radiometric and radar scattering observations from sea ice including radar backscatter and microwave emission The latest techniques for the retrieval of sea ice parameters from space borne and airborne sensor data New chapters on sea ice thermal microwave emissions and on the impact of climate change on polar sea ice Perfect for academic researchers working on sea ice the cryosphere and climatology Sea Ice Physics and Remote Sensing will also benefit meteorologists marine operators and high latitude construction engineers

Remote Sensing Ice Detection Capabilities, 1995 *Polar Remote Sensing* Robert Massom, Dan Lubin, 2006-08-31 Polar Remote Sensing is a two volume work providing a comprehensive multidisciplinary discussion of the applications of satellite sensing Volume 2 focuses on the ice sheets icebergs and interactions between ice sheets and the atmosphere and ocean It contains information about the applications of satellite remote sensing in all relevant polar related disciplines including glaciology meteorology climate and radiation balance and oceanography It also provides a brief review of the state of the art of each discipline including current issues and questions Various passive and active remote sensor types are discussed and the book then concentrates on specific geophysical applications Its interdisciplinary approach means that major advances and publications are highlighted Polar Remote Sensing Ice Sheets summarizes fundamental principles of detectors imaging and geophysical product retrieval includes a chapter on the important new field of satellite synthetic aperture radar interferometry is a one stop shop for polar remote sensing information contains significant new information on the Earth's polar regions describes sophisticated groundbased remote sensing applications with specific reference to their use in polar regions

Encyclopedia of the Antarctic Beau Riffenburgh, 2006-10-25 The Antarctic is unique geographically politically and scientifically It is the most remote hostile and dangerous continent while at the same time it is the most pristine and least developed Antarctica is the only major part of the Earth's landmass not directly governed by one nation but under the control of a Treaty with a multitude of acceding nations The Encyclopedia of the Antarctic brings together large quantities of information on the wide variety of factors issues and individuals influencing and relating to the Antarctic No comparable book currently exists for this region The Encyclopedia of the Antarctic discusses scientific activities and topics but the human element is also a significant part of the work with entries on history politics legal issues national research programs scientific bases historic huts the United Nations Question of Antarctica compliance with the Environmental Protocol and tourism

Microwave Remote Sensing of Sea Ice Frank D. Carsey, 1992-04-08 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 68 Human activities in the polar regions have undergone incredible changes in this century Among these changes is the revolution that satellites have brought about in obtaining information concerning polar geophysical processes Satellites have flown for about three decades and the polar regions have been the subject of their routine surveillance for more than half that time Our observations of polar regions have evolved from happenstance ship

sightings and isolated harbor icing records to routine global records obtained by those satellites Thanks to such abundant data we now know a great deal about the ice covered seas which constitute about 10% of the Earth's surface This explosion of information about sea ice has fascinated scientists for some 20 years We are now at a point of transition in sea ice studies we are concerned less about ice itself and more about its role in the climate system This change in emphasis has been the prime stimulus for this book

Earth Resources, A Continuing Bibliography with Indexes, 1984 **Scientific and Technical Aerospace Reports**, 1992-03 *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

Oceanic Remote Sensing and Sea Ice Monitoring Johnny A. Johannessen, Trevor H. Guymer, 1994

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