



Rough Ice

JA Banks



Rough Ice:

International Ice Observation and Ice Patrol Service in the North Atlantic Ocean, 1940 *River Ice Processes and Ice Flood Forecasting* Karl-Erich Lindenschmidt, 2019-09-25 This book exposes practitioners and students to the theory and application of river and lake ice processes to gain a better understanding of these processes for modelling and forecasting It focuses on the following processes of the surface water ice freeze up ice cover thickening ice cover breakup and ice jamming The reader will receive a fundamental understanding of the physical processes of each component and how they are applied in monitoring and modelling ice covers during the winter season and forecasting ice floods Exercises accompany each component to reinforce the theoretical principles learned These exercises will also expose the reader to different tools to process data such as space borne remote sensing imagery for ice cover classification A thread supporting numerical modelling of river ice and lake ice processes runs through the book Northward Over the "great Ice" Robert Edwin Peary, 1898 **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 **Underwater Acoustic Data Processing** Y. T. Chan, 2012-12-06 This book contains the papers that were accepted for presentation at the 1988 NATO Advanced Study Institute on Underwater Acoustic Data Processing held at the Royal Military College of Canada from 18 to 29 July 1988 Approximately 110 participants from various NATO countries were in attendance during this two week period Their research interests range from underwater acoustics to signal processing and computer science some are renowned scientists and some are recent Ph D graduates The purpose of the ASI was to provide an authoritative summing up of the various research activities related to sonar technology The exposition on each subject began with one or two tutorials prepared by invited lecturers followed by research papers which provided indications of the state of development in that specific area I have broadly classified the papers into three sections under the titles of I Propagation and Noise II Signal Processing and III Post Processing The reader will find in Section I

papers on low frequency acoustic sources and effects of the medium on underwater acoustic propagation Problems such as coherence loss due to boundary interaction wavefront distortion and multipath transmission were addressed Besides the medium corrupting noise sources also have a strong influence on the performance of a sonar system and several researchers described methods of modeling these sources

Sea Ice Mohammed Shokr, Nirmal K. Sinha, 2015-03-30 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

Ellavut / Our Yup'ik World and Weather Ann Fienup-Riordan, Alice

Rearden, 2013-08-27 Ellavut Our Yup'ik World and Weather is a result of nearly ten years of gatherings among Yup'ik elders to document the qanruyutet words of wisdom that guide their interactions with the environment In an effort to educate their own young people as well as people outside the community the elders discussed the practical skills necessary to live in a harsh environment stressing the ethical and philosophical aspects of the Yup'ik relationship with the land ocean snow weather and environmental change among many other elements of the natural world At every gathering at least one elder repeated the Yup'ik adage The world is changing following its people The Yup'ik see environmental change as directly related not just to human actions such as overfishing or burning fossil fuels but also to human interactions The elders encourage young people to learn traditional rules and proper behavior to act with compassion and restraint in order to

reverse negative impacts on their world They speak not only to educate young people on the practical skills they need to survive but also on the knowing and responsive nature of the world in which they live Special Report ,1991 A Functional Glossary of Ice Terminology United States. Hydrographic Office,1952 An extension of Hydrographic Office study no 103 compiled in 1948 *Ice Thickness Observations, North American Arctic and Subarctic 1970-71, 1971-72* Michael A. Bilello,Roy E. Bates,1975 The seventh in a series of reports on lake and river ice and land fast sea ice presents ice thickness measurements observed throughout the North American Arctic and subarctic during the 1970 71 and 1971 72 winter seasons Information on surface ice conditions dates of first ice freeze over and breakup and detailed measurements of ice thickness across Alaskan rivers are also included Some reports from the Alaska National Guard network on ice thickness measurements in remote areas of western Alaska are also presented Analyses were made of maximum observed ice thicknesses reported during the two winters and deviations from the mean ice thickness measured across rivers and creeks in southeast Alaska between 1965 and 1972 *River Ice Jams* S. Beltaos,1995 *Ocellus Lucanus on the nature of the universe* Julius Firmicus Maternus,Proclus,Tauros,2025-04-24 Ocellus Lucanus on the Nature of the Universe presents a fascinating exploration into the philosophical musings on cosmology and metaphysics Spanning a diverse range of styles from early mystical doctrines to refined Neoplatonic discourse the collection captures the milieu of late antiquity where pagan thought processes intersected profoundly with burgeoning Christian ideologies This anthology includes profound reflections on existential themes oscillating between the mystical and the empirical offering readers insight into the philosophical inquiries of the Hellenistic period Standout pieces such as the contemplations on the harmony of cosmic order illuminate the depth and sophistication of ancient thought establishing a timeless dialogue on the universe s origins and essence The esteemed contributions by Julius Firmicus Maternus Proclus and Tauros weave a tapestry of intellectual heritage grounding the anthology in historical depth and cultural richness Each author embodies a distinct voice from ancient philosophical landscape Firmicus with the infusion of astrological wisdom Proclus with his systematic blending of Platonic traditions and Tauros with an enigmatic interpretation of Aristotelian logic Together they represent a coherent alignment with the intellectual currents of Neoplatonism displaying an evolution of philosophical thought influenced by diverse traditions and inquiries about the universe This collection is an indispensable resource for readers interested in uncovering the multifaceted dimensions of ancient philosophical literature It invites exploration of varied perspectives encouraging a reflective dialogue on the nature of existence and the cosmos Beyond its educational offerings it brings forward an immersive experience of literary and philosophical beauty encouraging contemporary readers to reflect deeply on the coherence of ancient and modern intellectual pursuits By delving into this assembly of thought provoking texts one can participate in an enduring conversation about the metaphysical mysteries that continue to challenge and inspire humanity **Remote Sensing of Sea Ice in the Northern Sea Route** Ola M. Johannessen,Vitali Alexandrov,Ivan Ye. Frolov,Stein Sandven,Lasse

H. Pettersson, Leonid P. Bobylev, Kjell Kloster, Vladimir G. Smirnov, Yevgeny U. Mironov, Nikolay G. Babich, 2006-11-30 Remote Sensing of Sea Ice in the Northern Sea Route Studies and Applications initially provides a history of the Northern Sea Route as an important strategic transport route for supporting the northern regions of Russia and cargo transportation between Europe and the Northern Pacific Basin The authors then describe sea ice conditions in the Eurasian Arctic Seas and using microwave satellite data provide a detailed analysis of difficult sea ice conditions Remote sensing techniques and the basic principles of SAR image formation are described as well as the major satellite radar systems used for ice studies in the Arctic The authors take a good look at the use of sensing equipment in experiments including the ICE WATCH project used for monitoring the Northern Sea Route The possibilities of using SAR remote sensing for ice navigation in the Northern Sea Route is also detailed analysing techniques of automatic image processing and interpretation A study is provided of regional drifting ice fast ice and river ice in the coastal areas of the Arctic Seas The book concludes with a review of the practical experience using SAR images for supporting navigation and offshore industrial activity based on a series of experiments conducted with the Murmansk Shipping Company on board nuclear icebreakers **Air University Quarterly Review**, 1954

The Ice at the End of the World Jon Gertner, 2019-06-11 A riveting urgent account of the explorers and scientists racing to understand the rapidly melting ice sheet in Greenland a dramatic harbinger of climate change Jon Gertner takes readers to spots few journalists or even explorers have visited The result is a gripping and important book Elizabeth Kolbert Pulitzer Prize winning author of *The Sixth Extinction* NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The Washington Post The Christian Science Monitor Library Journal Greenland a remote mysterious island five times the size of California but with a population of just 56 000 The ice sheet that covers it is 700 miles wide and 1 500 miles long and is composed of nearly three quadrillion tons of ice For the last 150 years explorers and scientists have sought to understand Greenland at first hoping that it would serve as a gateway to the North Pole and later coming to realize that it contained essential information about our climate Locked within this vast and frozen white desert are some of the most profound secrets about our planet and its future Greenland's ice doesn't just tell us where we've been More urgently it tells us where we're headed In *The Ice at the End of the World* Jon Gertner explains how Greenland has evolved from one of earth's last frontiers to its largest scientific laboratory The history of Greenland's ice begins with the explorers who arrived here at the turn of the twentieth century first on foot then on skis then on crude motorized sleds and embarked on grueling expeditions that took as long as a year and often ended in frostbitten tragedy Their original goal was simple to conquer Greenland's seemingly infinite interior Yet their efforts eventually gave way to scientists who built lonely encampments out on the ice and began drilling one mile two miles down Their aim was to pull up ice cores that could reveal the deepest mysteries of earth's past going back hundreds of thousands of years Today scientists from all over the world are deploying every technological tool available to uncover the secrets of this frozen island before it's too late As Greenland's ice melts and runs off into the sea it not only threatens to

affect hundreds of millions of people who live in coastal areas It will also have drastic effects on ocean currents weather systems economies and migration patterns Gertner chronicles the unfathomable hardships amazing discoveries and scientific achievements of the Arctic s explorers and researchers with a transporting deeply intelligent style and a keen sense of what this work means for the rest of us The melting ice sheet in Greenland is in a way an analog for time It contains the past It reflects the present It can also tell us how much time we might have left

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

Empire of Ice and Stone Buddy Levy,2022-12-06 National Outdoor Book Awards Winner The true harrowing story of the ill fated 1913 Canadian Arctic Expedition and the two men who came to define it In the summer of 1913 the wooden hulled brigantine Karluk departed Canada for the Arctic Ocean At the helm was Captain Bob Bartlett considered the world s greatest living ice navigator The expedition s visionary leader was a flamboyant impresario named Vilhjalmur Stefansson hungry for fame Just six weeks after the Karluk departed giant ice floes closed in around her As the ship became icebound Stefansson disembarked with five companions and struck out on what he claimed was a 10 day caribou hunting trip Most on board would never see him again Twenty two men and an Inuit woman with two small daughters now stood on a mile square ice floe their ship and their original leader gone Under Bartlett s leadership they built make shift shelters surviving the freezing darkness of Polar night Captain Bartlett now made a difficult and courageous decision He would take one of the young Inuit hunters and attempt a 1000 mile journey to save the shipwrecked survivors It was their only hope Set against the backdrop of the Titanic disaster and World War I filled with heroism tragedy and scientific discovery Buddy Levy s *Empire of Ice and Stone* tells the story of two men and two distinctively different brands of leadership one selfless one self serving and how they would forever be bound by one of the most audacious and disastrous expeditions in polar history considered the last great voyage of the Heroic Age of Discovery

Bulletin ,1932 Environmental Assessment of the Alaskan Continental Shelf ,1981

A Polar Dictionary Bernadette Hince,2025-07-08 This ice breaking book collects the English words of the Antarctic and the Arctic for the first time These words relate to weather ice and snow auroras clothes food housing social structures wildlife plants politics as well as many other aspects of polar life The terms are presented with scientific precision a helpful interpretative commentary and moments of irresponsible whimsy Apart from Antarctica and the Arctic the regions covered here stretch to places as remote as the Faroe Islands Iceland Tristan da Cunha and the Falkland Islands

Unveiling the Magic of Words: A Review of "**Rough Ice**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Rough Ice**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Rough Ice Introduction

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