

Alexander P. Lisitzin

Sea-Ice and Iceberg Sedimentation in the Ocean

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Seaice And Iceberg Sedimentation In The Ocean

Roland Kallenborn



Seaice And Iceberg Sedimentation In The Ocean:

Sea-Ice and Iceberg Sedimentation in the Ocean Alexander P. Lisitzin, 2002-10-02 This reference book for researchers working on glacial sediments provides a complete overview of the various glacial deposits in the ocean It presents a collection of worldwide data on glacio marine phenomena

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 exists 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

Sedimentation History in the Arctic Ocean and Subarctic Seas for the Last 130 kyr M. A. Levitan, Yu A. Lavrushin, 2012-02-10 The book reflects the results of the study of sedimentation history paleoclimatology and paleoceanography of the Arctic and Subarctic during the last 130 ka The main objects under consideration are marine basins of the West Subarctic Iceland Norwegian and Greenland Seas the Arctic Ocean Barents Pechora Kara Laptev East Siberian Chukchi Seas and deep sea Arctic Ocean proper East Subarctic Bering and Okhotsk Seas The modern environment and geological history of water ice sheds and marine basins have been studied for each region using different sedimentological and geochemical proxies Mainly results of the authors own studies are represented with special emphasis on glacial interglacial variability and land ocean interaction The book is aimed at sedimentologists quaternary and marine geologists paleoclimatologists and paleoceanographers as well as being of great interest to students in the related fields

Arctic Ocean Sediments: Processes, Proxies, and Paleoenvironment R. Stein, 2008-07-22 Although it is generally accepted that the Arctic Ocean is a very sensitive and important region for changes in the global climate this region is the last major physiographic province of the earth whose short and long term geological history is much less known in comparison to other ocean regions This lack of knowledge is mainly caused by the major technological logistic problems in reaching this harsh ice covered region with normal research vessels and in retrieving long and undisturbed sediment cores During the the last about 20 years however several international and multidisciplinary ship expeditions including the first scientific drilling on Lomonosov Ridge in 2004 a break through in Arctic research were carried out into the central Arctic and its surrounding shelf seas Results from these expeditions have greatly advanced our knowledge on Arctic Ocean paleoenvironments Published syntheses about the knowledge on Arctic Ocean geology on the other hand are based on data available prior to 1990 A comprehensive compilation of data on Arctic Ocean paleoenvironment and its short and long term variability based on the huge amount of new data including the ACEX drilling data has not been available yet With this book presenting 1 detailed information on glacio marine sedimentary processes and geological proxies used for

paleoenvironmental reconstructions and 2 detailed geological data on modern environments Quaternary variability on different time scales as well as the long term climate history during Mesozoic Tertiary times this gap in knowledge will be filled Aimed at specialists and graduates Presents background research recent developments and future trends Written by a leading scholar and industry expert Sedimentation Processes in the White Sea Alexander P. Lisitsyn, Liudmila L. Demina, 2019-01-22

This book presents a new perspective on the sedimentation processes in the White Sea based on a multidisciplinary research study conducted between 2001 and 2016 It provides a comprehensive review and discusses the latest research findings on the ecosystem of this sub arctic zone The topics addressed include suspended particulate matter as a main source and proxy of the sedimentation processes in the White Sea vertical fluxes of dispersed sedimentary matter and absolute masses in the White Sea and the development history and quaternary deposits of the modern White Sea basin The authors closely examine the abundance and species composition of microalgae associations and the environmental conditions in the bottom sediments of the White Sea namely heavy metal accumulation and aliphatic and polycyclic aromatic hydrocarbons The book ends contain a summary of the key conclusions and recommendations Together with the companion volume Biogeochemistry of the Atmosphere Ice and Water of the White Sea The White Sea Environment Part I it offers an essential source of information for postgraduate students researchers and stakeholders alike **Encyclopedia of Snow, Ice and Glaciers** Vijay P. Singh, Pratap Singh, Umesh K. Haritashya, 2011-07-01 The earth's cryosphere which includes snow glaciers ice caps ice sheets ice shelves sea ice river and lake ice and permafrost contains about 75% of the earth's fresh water It exists at almost all latitudes from the tropics to the poles and plays a vital role in controlling the global climate system It also provides direct visible evidence of the effect of climate change and therefore requires proper understanding of its complex dynamics This encyclopedia mainly focuses on the various aspects of snow ice and glaciers but also covers other cryospheric branches and provides up to date information and basic concepts on relevant topics It includes alphabetically arranged and professionally written comprehensive and authoritative academic articles by well known international experts in individual fields The encyclopedia contains a broad spectrum of topics ranging from the atmospheric processes responsible for snow formation transformation of snow to ice and changes in their properties classification of ice and glaciers and their worldwide distribution glaciation and ice ages glacier dynamics glacier surface and subsurface characteristics geomorphic processes and landscape formation hydrology and sedimentary systems permafrost degradation hazards caused by cryospheric changes and trends of glacier retreat on the global scale along with the impact of climate change This book can serve as a source of reference at the undergraduate and graduate level and help to better understand snow ice and glaciers It will also be an indispensable tool containing specialized literature for geologists geographers climatologists hydrologists and water resources engineers as well as for those who are engaged in the practice of agricultural and civil engineering earth sciences environmental sciences and engineering ecosystem management and other relevant subjects

Glacial-Marine Sedimentation Bruce F. Molnia, 2012-12-06 This volume of 18 papers describes the glacial marine sedimentary environment in a variety of temporal and spatial settings The volume's primary emphasis is the characterization of Quaternary glacial marine sedimentation to show 1 the significant differences that exist between glacial marine environments in different geographic settings and 2 their resulting glacial marine deposits and facies Additionally papers describing ancient glacial marine environments are also presented to illustrate lithified analogs of the Quaternary deposits With the Doctrine of Uniformitarianism in mind the present is the key to the past it is hoped that this volume will serve to expand the horizons of geologists working on the rock record especially those whose primary criteria for recognition of ancient glacial marine environments is the presence of dropstones in a finer grained matrix As the papers presented here show diamictite is only one of many types of deposits that form in the glacial marine sedimentary environment Papers presented in this volume examine the Quaternary glacial marine sedimentary picture in subarctic Alaska Antarctica the Arctic Ocean the Kane Basin Baffin Island the Puget Fraser Lowland of Washington and British Columbia and the North Atlantic Ocean Ancient glacial marine deposits described are the Neogene Yakataga Formation of southern Alaska the Late Paleozoic Dwyka Formation of the Karoo Basin of South Africa and the Precambrian Mineral Fork Formation of Utah For continuity a paper summarizing the temporal and spatial occurrences of glacial marine deposits is also presented

Polar Remote Sensing Dan Lubin, Robert Massom, 2006-08-31 The polar regions perhaps more than any other places on Earth give the geophysical scientist a sense of exploration This sensibility is genuine for not only is high latitude fieldwork arduous with many locations seldom or never visited but there remains much fundamental knowledge yet to be discovered about how the polar regions interact with the global climate system The range of opportunities for new discovery becomes strikingly clear when we realize that the high latitudes are not one region but are really two vastly different worlds The high Arctic is a frozen ocean surrounded by land and is home to fragile ecosystems and unique modes of human habitation The Antarctic is a frozen continent without regular human habitation covered by ice sheets taller than many mountain ranges and surrounded by the Earth's most forbidding ocean When we consider global change as applied to the Arctic we discuss impacts to a region whose surface and lower atmospheric temperatures are near the triple point of water throughout much of the year The most consistent signatures of climate warming have occurred at northern high latitudes IPCC 2001 and the potential impacts of a few degrees increase in surface temperature include a reduction in sea ice extent a positive feedback to climate warming due to lowering of surface albedo and changes to surface runoff that might affect the Arctic Ocean's salinity and circulation

Implications and Consequences of Anthropogenic Pollution in Polar Environments Roland Kallenborn, 2016-07-01 The first evidence on the adverse effects of organic pollutants on Arctic ecosystems was provided by international research initiatives more than 30 years ago Today the indigenous people of the North are considered to be affected by exposure to persistent organic pollutants POPs and metals through their traditional marine food sources The occurrence of pollutants of

emerging concern in remote Polar environments is considered an essential criterion for prioritising this largely neglected type of contamination in national international and global regulation schemes Initiated during the first international Polar Years IPY 2007 2009 and continued afterwards 11 representative initiatives and projects are summarised as chapters in this book which highlights today s interdisciplinary research on POPs in the Polar environment The individual chapters describe in detail the consequences priorities and perspectives of international research on POPs legacy and emerging xenobiotics its implications for regulations and scientific priorities including societal and cultural developments in the Arctic as well as conservation priorities in Antarctica This book is intended for all readers interested in learning more about modern research on environmental pollutants in the Polar environments with a strong focus on Arctic environments The impacts of pollution and climate change on Polar regions and the world as a whole will continue to be felt for many years to come Sound science is thus vital in order to underpin actions that need to be taken at the global regional and local levels This book contributes to this highly relevant interdisciplinary environmental scientific endeavour

Biogeochemistry of the Atmosphere, Ice and Water of the White Sea Alexander P. Lisitsyn, Viacheslav V. Gordeev, 2019-02-01 This book is devoted to the biogeochemical environment of the White Sea an inland sea in the Northwestern region of Russia It provides a comprehensive review and discusses the latest research findings on the oceanology sedimentology and biogeochemistry of the White Sea water column The topics discussed include the regulation of the physico geographical conditions in the White Sea basin dispersed sedimentary substance of the atmosphere and the cryosphere the geochemical peculiarities of the river discharge into the White Sea and the phyto and zooplankton activities in the White Sea Taking the biggest river in the White Sea basin as an example the authors closely examine the deposition of suspended particulate matter the biogeochemical behaviour of dissolved and suspended forms of organic material and the significant group of chemical elements in the river sea mixing zone of the Severnaya Dvina River The book ends with a summary of the key conclusions and recommendations Together with the companion volume Sedimentation Processes in the White Sea The White Sea Environment Part II it offers an essential source of information for postgraduate students researchers and stakeholders alike

Paleoclimatology and Paleometeorology: Modern and Past Patterns of Global Atmospheric Transport Margaret Leinen, Michael Sarnthein, 2012-12-06 The NATO Advanced Research Workshop on Paleoclimatology and Paleometeorology Modern and Past Patterns of Global Atmospheric Transport held at Oracle Arizona USA from November 17 19 1987 brought together atmospheric chemists physicists and meteorologists who study the origin and transport of modern day mineral and biological aerosols with geologists and paleobotanists who study the sedimentary record of eolian and hydrologic processes along with modelers who study and conceptualize the processes influencing atmospheric transport at present and in the past Presentations at the workshop provided a guide to our present knowledge of the entire spectrum of processes and phenomena important to the generation transport and deposition of eolian terrigenous material that ultimately becomes part

of the geologic record and the modeling techniques that used to represent these processes The presentations on the geologic record of eolian deposition documented our present understanding of the nature and causes of climate change on time scales of the last glacial ages tens of thousands of years to time scales over which the arrangement of continents mountains and oceans has changed substantially tens of millions of years There has been a growing recognition of the importance of global climatic changes to the future well being of humanity In particular the climatic response to human alterations to the earth's surface and chemical composition has led to concern over the agricultural ecological and societal impacts of such potential global changes

Ecosystems of the Deep Oceans P.A. Tyler, 2003-03-27 This volume examines the deep sea ecosystem from a variety of perspectives The initial chapters examine the deep sea floor the deep pelagic environment and the more specialised chemosynthetic environments of hydrothermal vents and cold seeps These environments are examined from the perspective of the relationship of deep sea animals to their physico chemical environment Later chapters examine the biogeography of the main deep oceans Atlantic Pacific and Indian with particular attention to the downward flux of surface derived organic matter and how this drives the processes within the deep sea ecosystem The peripheral deep seas including the polar seas and the marginal deep seas inter alia the Mediterranean Red Caribbean and Okhotsk seas are explored in the same context The final chapters examine the processes occurring in the deep sea and include an analysis of why the deep sea has high species diversity how the fauna respond to organic input and how species have adapted reproductive activity in the deep sea The volume concludes with an analysis of the anthropogenic impact on the deep sea

Oceanography Arnold L. Gordon, F. W. G. Baker, 2013-10-22 Annals of the International Geophysical Year Volume 46 Oceanography covers the program of oceanographic studies conducted during the International Geophysical Year IGY The program includes long wave and sea level recording deep water circulation polar front survey and multipleship current measurement This book is composed of six chapters and begins with the objective and aims of the oceanographic program and the national contributions to this program The succeeding chapters discuss the problem in delineating sea level cycle and the results of the North Atlantic Polar Front Survey in the IGY These topics are followed by a survey of the results from many oceanographical expeditions Particularly good results were obtained during the IGY period by the use of special large scale precision automatic recorders of the phototelegraph station type The last chapter describes the artificial radioactivity in the oceans consisting mainly of fission products of U235 Pu239 and U238 from reactors and nuclear explosion devices This book is of value to geophysicists and marine scientists and researchers

Open-file Report , 1998 River Sediments Greig Ramsey, Seoras McHugh, 2010 Sediments are loose earth materials with variable grain size such as sand silt and clay that accumulate on the land surface in river and lake beds and on the ocean floor This book reports how data obtained for different elements stable and radioactive present in bottom sediments and suspended particulate matter SPM can be utilised to investigate hydrological processes occurring in different hydrographic basins in Brazil South America Particular attention

is directed towards describing the importance of sediments on the adsorption of different stable radioactive constituents This book also evaluates the most common methods utilised to obtain metal background values for soil and sediments These techniques are helpful when it is necessary to differentiate the background metal concentration from the area from the pollutant metal concentration Also reviewed is the data on content of aliphatic hydrocarbons HC polycyclic aromatic hydrocarbons PAH and suspended matter in snow ice and under ice water and bottom sediments at Northern Dvina mouth Other chapters in this book examine the decomposition rate of organic matter in river sediments using the litterbag method as well as measurement of O₂ consumption rate by microbial respiration and microbiomass in sediment and the speciation of some spiked components of sediments such as sand and clays It is intended that this review will provide the present state of knowledge and current trends for investigators in this field

Arctic Research of the United States, 1998 **Berichte zur Polar- und Meeresforschung**, 2005 Glacier-influenced Sedimentation on High-latitude Continental Margins J. A. Dowdeswell, C. Ó Cofaigh, 2002 This book examines the process and patterns of glacier influenced sedimentation on high latitude continental margins and the geophysical and geological signatures of the resulting sediments and landforms It contains a range of papers concerning modern and glacially influenced sedimentation in high latitude areas from both hemispheres many of which discuss the relationship between glacier dynamics and the sediments and landforms preserved in the glacial marine environment

Glacier Science and Environmental Change Peter G. Knight, 2008-04-15 Glacier Science and Environmental Change is an authoritative and comprehensive reference work on contemporary issues in glaciology It explores the interface between glacier science and environmental change in the past present and future Written by the world's foremost authorities in the subject and researchers at the scientific frontier where conventional wisdom of approach comes face to face with unsolved problems this book provides state of the art reviews of the key topics in glaciology and related disciplines in environmental change cutting edge case studies of the latest research an interdisciplinary synthesis of the issues that draw together the research efforts of glaciologists and scientists from other areas such as geologists hydrologists and climatologists color plate section with selected extra figures provided in color at www.blackwellpublishing.com/knight The topics in this book have been carefully chosen to reflect current priorities in research the interdisciplinary nature of the subject and the developing relationship between glaciology and studies of environmental change Glacier Science and Environmental Change is essential reading for advanced undergraduates postgraduate research students and professional researchers in glaciology geology geography geophysics climatology and related disciplines

Encyclopedia of Ocean Sciences, 2019-04-12 The oceans cover 70% of the Earth's surface and are critical components of Earth's climate system This new edition of Encyclopedia of Ocean Sciences Six Volume Set summarizes the breadth of knowledge about them providing revised up to date entries as well coverage of new topics in the field New and expanded sections include microbial ecology high latitude systems and the cryosphere climate and climate change hydrothermal and cold seep systems The structure of

the work provides a modern presentation of the field reflecting the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief In this framework maximum attention has been devoted to making this an organic and unified reference Represents a one stop organic information resource on the breadth of ocean science research Reflects the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief New and expanded sections include microbial ecology high latitude systems and climate change Provides scientifically reliable information at a foundational level making this work a resource for students as well as active researches

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Table of Contents Sealice And Iceberg Sedimentation In The Ocean

1. Understanding the eBook Sealice And Iceberg Sedimentation In The Ocean
 - The Rise of Digital Reading Sealice And Iceberg Sedimentation In The Ocean
 - Advantages of eBooks Over Traditional Books
2. Identifying Sealice And Iceberg Sedimentation In The Ocean
 - 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 Sealice And Iceberg Sedimentation In The Ocean
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sealice And Iceberg Sedimentation In The Ocean
 - Personalized Recommendations
 - Sealice And Iceberg Sedimentation In The Ocean User Reviews and Ratings
 - Sealice And Iceberg Sedimentation In The Ocean and Bestseller Lists
5. Accessing Sealice And Iceberg Sedimentation In The Ocean Free and Paid eBooks

- Seaice And Iceberg Sedimentation In The Ocean Public Domain eBooks
 - Seaice And Iceberg Sedimentation In The Ocean eBook Subscription Services
 - Seaice And Iceberg Sedimentation In The Ocean Budget-Friendly Options
6. Navigating Seaice And Iceberg Sedimentation In The Ocean eBook Formats
 - ePub, PDF, MOBI, and More
 - Seaice And Iceberg Sedimentation In The Ocean Compatibility with Devices
 - Seaice And Iceberg Sedimentation In The Ocean Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Seaice And Iceberg Sedimentation In The Ocean
 - Highlighting and Note-Taking Seaice And Iceberg Sedimentation In The Ocean
 - Interactive Elements Seaice And Iceberg Sedimentation In The Ocean
 8. Staying Engaged with Seaice And Iceberg Sedimentation In The Ocean
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Seaice And Iceberg Sedimentation In The Ocean
 9. Balancing eBooks and Physical Books Seaice And Iceberg Sedimentation In The Ocean
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Seaice And Iceberg Sedimentation In The Ocean
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Seaice And Iceberg Sedimentation In The Ocean
 - Setting Reading Goals Seaice And Iceberg Sedimentation In The Ocean
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Seaice And Iceberg Sedimentation In The Ocean
 - Fact-Checking eBook Content of Seaice And Iceberg Sedimentation In The Ocean
 - 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

SeaiCe And Iceberg Sedimentation In The Ocean Introduction

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