

Alexander P. Lisitzin

Sea-Ice and Iceberg Sedimentation in the Ocean

Recent and Past



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Seaice And Iceberg Sedimentation In The Ocean

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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 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. [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 last about 20 years, however, several international and multidisciplinary ship expeditions, including the first scientific drilling on Lomonosov Ridge in 2004, a breakthrough 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 **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

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

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

Carbon Cycle in the Russian Arctic Seas Alexander Vetrov, Evgeny Romankevich, 2013-03-09 At present studies of the Arctic Basin are of particular importance to the world scientific community due to the strong influence of this region on the global climate its enormous mineral and hydrocarbon resources the poor knowledge about the polar biosphere and the growing anthropogenic pollution of the Arctic Gramberg et al 2000 Kluev 2000 Therefore the forthcoming century is sometimes justly named the century of the Arctic Global climatic changes attract the close attention of scientists from all over the world The prevalent concept that climate warming is a minor positive anomaly in the planetary temperature is documented by the analyses of hundreds of thousands of deep sea samples Forecasts predict a tendency to even stronger warming over the next decades Watson et al 1998 The climate warming is

accompanied by a reduction in the area and thickness of the ice cover a negative balance of the Arctic glaciers a northward migration of the arboreal front an increase in the permafrost temperature in the Russian Arctic and a tendency to the growth of biological productivity Serreze et al 2000 Morison et al 2001 Carbon cycling strongly affects the earth's climate its study in the Arctic Seas of Russia is an essential link in the solution of the global climate change problem *Open-file Report*, 1998 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 *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 Paleoclimatology and Paleometeorology: Modern and Past Patterns of Global Atmospheric Transport Margaret Leinen, Michael Sarinthein, 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.

Encyclopedia of Paleoclimatology and Ancient Environments Vivien Gornitz, 2008-10-31 One of Springer's Major Reference Works, this book gives the reader a truly global perspective. It is the first major reference work in its field. Paleoclimate topics covered in the encyclopedia give the reader the capability to place the observations of recent global warming in the context of longer term natural climate fluctuations. Significant elements of the encyclopedia include recent developments in paleoclimate modeling, paleo-ocean circulation as well as the influence of geological processes and biological feedbacks on global climate change. The encyclopedia gives the reader an entry point into the literature on these and many other groundbreaking topics.

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.

Oceanic Sedimentation Alexander P. Lisitzin, 1996-01-09

Published by the American Geophysical Union as part of the Special Publications Series We are pleased to present this edited translation of Oceanic Sedimentation from the original Russian edition of Alexander Lisitzin's Processes in Oceanic Sedimentation Lithology and Geochemistry Nauka Published originally in 1978 this volume represents an important major synthesis on oceanic sediments and major processes governing their formation and distribution in space and time The primary focus of this volume is the influence of the environment especially climate on the mineral chemical and isotopic composition of sediments and their physical characteristics This global perspective is rich in data about sediment sources composition transportation volumes fluxes and budgets We consider that this edited translation is of particular importance because Lisitzin's compilation is one of the broadest and most comprehensive available in any language

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