

Siberian river run-off in the Kara Sea

Characterisation, quantification, variability
and environmental significance

Ruediger Stein, Kirsten Fahl, Dieter K. Fütterer, Eric M. Galimov and
Oleg V. Stepanets (Editors)

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Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance

**Costas A. Varotsos, Vladimir F.
Krapivin, Ferdenant A. Mkrtchyan, Yong
Xue**

Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance:

Siberian river run-off in the Kara Sea R. Stein, K. Fahl, D.K. Fütterer, E.M. Galimov, O.V. Stepanets, 2003-09-16 Within the joint German Russian research project Siberian River Run off SIRRO multidisciplinary studies were carried out in the Ob and Yenisei estuaries and adjacent southern Kara Sea Arctic Ocean The overall goal of the project was to extend knowledge on understanding the freshwater and sediment input by the major Siberian rivers and its impact on the environments of the inner Kara Sea The main results of oceanographical biological geochemical geological and modelling studies are presented in four main chapters A Modern Discharge Data and modelling B Discharge and biological processes C Discharge and organic carbon cycle and D Discharge and sediment records

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

The Organic Carbon Cycle in the Arctic Ocean Rüdiger Stein, Robie W. Macdonald, 2011-06-27 The flux preservation and accumulation of organic carbon in marine systems are controlled by various mechanisms including primary production of the surface water supply of terrigenous organic matter from the surrounding continents biogeochemical processes in the water column and at the seafloor and sedimentation rate For the world's oceans phytoplankton productivity is by far the largest organic carbon source estimated to be about 30 to 50 Gt 10 tonnes per year Berger et al 1989 Hedges and Keil 1995 By comparison rivers contribute about 0.15 to 0.23 Gt y of particulate organic

Exploring the Marine Ecology from Space

Dmitry V. Pozdnyakov, Lasse H. Pettersson, Anton A. Korosov, 2017-06-10 This book provides results of spatial and temporal distributions of water quality parameters and marine primary production and its relationship with the driving atmospheric ocean circulation and hydrobiological mechanisms established through a synergistic use of multi spectral region spaceborne data and results of numerical model simulations of marine in water and atmospheric processes related to the marine ecosystem The changes in the studied marine oceanic environments are analysed in light of recent climate change that imposes its influence through a set of forward and feedback interactions and forcing **Hydrogeochemistry**

Fundamentals and Advances, Environmental Analysis of Groundwater Viatcheslav V. Tikhomirov, 2018-02-27 Water is the Earth's most precious resource Until recent years water was often overlooked as being overly abundant or available but much has changed all over the world As climate change human encroachment on environmental areas and deforestation become greater dangers the study of groundwater has become more important than ever and is growing as one of the most important areas of science for the future of life on Earth This three volume set is the most comprehensive and up to date treatment of hydrogeochemistry that is available The first volume lays the foundation of the composition chemistry and testing of groundwater while volume two covers practical applications such as mass transfer and transport Volume three which completes the set is an advanced study of the environmental analysis of groundwater and its implications for the future This third volume focuses more deeply on the analysis of groundwater and the practical applications of these analyses which are valuable to engineers and scientists in environmental science groundwater remediation petroleum engineering geology and hydrology Whether as a textbook or a reference work this volume is a must have for any library on hydrogeochemistry

Evolution and Biogeography Martin Thiel, 2020 A thorough review of the evolution and biogeography of crustaceans to determine how crustaceans have been able to evolve in a number of climates and habitats this volume also examines the ecological and biogeographical implications of that evolutionary process 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

Berichte zur Polar- und Meeresforschung, 2007 **The Global Thermohaline Paleocirculation** Elena

Ivanova, 2009-10-03 Originally published in Russian in 2006 this is the first English translation of this important book on paleoceanography and paleoclimatology Its initial publication was followed by a surge of interest in this subject prompting the author to revise and translate her original work In the book she successfully summarizes her own research over recent years and compiles an overview of up to date knowledge on past ocean circulation The key topics include Modern thermohaline circulation and main stages of its development during the Cenozoic Methods and proxies of paleoceanographic reconstruction Variability of the meridional overturning circulation and paleoceanographic events in the North Atlantic during the last climatic cycle Influence of the global thermohaline circulation on paleoceanographic events in the Eurasian Arctic seas the Northern Indian Ocean and the South China Sea The role of the thermohaline circulation in global teleconnections in the Antarctic Eurasian Arctic northern Pacific and low latitudes Indo Pacific Comprehensive investigation of hundreds of international publications and her own results convinced the author that the global thermohaline circulation controls the remote teleconnections on millennial scale and partly on centennial scale while short term climate signals are mainly transferred by the atmosphere This revised and extended English edition provides the latest unpublished data new figures and modeling results The extensive reference list contains more than 100 publications and 140 new references

Constructive Processing of Microwave and Optical Data for Hydrogeochemical Applications Costas A.

Varotsos, Vladimir F. Krapivin, Ferdenant A. Mkrtchyan, Yong Xue, 2023-05-24 This book presents results of the combined use of microwave remote sensing optical tools and ecoinformatics methods under solution applied tasks at both regional and global scales Ecoinformatics methods are used to assess links between global climate change and the level of ocean pollution with specific focus on the Arctic Ocean the Sea of Okhotsk and the South China Sea The theoretical and applied aspects of instrumental tools are considered in this book as a basis for the monitoring of water quality in various watersheds with particular attention to microwave remote sensing monitoring data to determine the ecotoxicological status of hydro ecosystems affected by climate change The book develops new information technologies that provide solutions for hydrochemical tasks using algorithms and models based on computer technologies for big data processing This will help to synthesize effective computer based systems for the solution of problems arising due to anthropogenic impacts on hydrological processes and objects at various spatial scales This book is intended for specialists in the fields of environmental monitoring climate change human nature interactions and geopolitics The book will be useful for undergraduate and postgraduate students studying these fields of science as well Biology of Polar Benthic Algae Christian Wiencke, 2011 This comprehensive update addresses all researchers in the fields of marine science marine botany ecophysiology ecology conservation biology and polar research in general Book Jacket **Estuarine and Coastal Fine Sediment Dynamics**

Jerome Maa, Lawrence P. Sanford, David Schoellhamer, 2011-09-22 This volume is the product of the International Conference on Cohesive Sediment Transport INTERCOH 2003 held at the Virginia Institute of Marine Science U S A during October 1-4 2003 The topics included in this monograph range from basic research on cohesive sediment dynamics to practical applications Also included with this book is a database that contains all experimental results as well as a comparison of numerical simulation results supported by the COSINUS project Provides fundamental knowledge of the dynamics of cohesive sediments Presents practical applications of new finds on sedimentary processes Includes valuable ready for use data

The Ecology of Poole Harbour V.J. May, John Humphreys, 2005-08-24 Poole Harbour's unique combination of physical characteristics provide for a rich and productive ecological community recognised for its internationally significant bird populations and as a haven for the naturalisation of exotic species But the Harbour is also exceptional in the extent to which it represents in microcosm the world wide tensions between environment and development The contrasts are sometimes startling the narrow Harbour entrance separates an unspoilt natural environment of considerable importance from an urban landscape where property competes with Manhattan and Hong Kong Island in the world wide table of real estate values The Harbour serves as a port fishing ground a receiver of effluent and increasingly as a playground for the affluent It also lies above Europe's largest on shore oil field The Ecology of Poole Harbour brings together for the first time expert contributions in such a way as to provide a picture of the ecology of the Harbour system as a whole It covers all the major habitats from reed beds and salt marshes to the extensive mudflats and unseen sub tidal regions while also examining in some detail a wide range of ecological phenomena and issues First expert overview of ecology of Poole Harbour as a whole

Seaweed Biology Christian Wiencke, Kai Bischof, 2012-06-06 Seaweeds also known as macroalgae are among the most important primary producers and act as ecological engineers on rocky coasts of the world's oceans In addition to their extreme ecological importance they are also of high economic relevance Complementing available textbooks with its more research oriented approach this volume contains 22 chapters by renowned experts grouped in five parts In Part I fundamental processes and acclimation strategies of seaweeds towards the abiotic environment are covered Part II focuses on the multitude of biotic interactions in seaweed communities and in Part III the reader is introduced to the structure and function of the main seaweed systems of the world The chapters of Part IV highlight and discuss the effects of global and local environmental changes on seaweeds and their communities In the final Part V a comprehensive overview of developments in seaweed aquaculture industrial applications and the overall economic importance of seaweeds is provided Summarizing the advances in seaweed biology achieved within the last few decades this book also identifies gaps in the present knowledge and needs for future research

Geochemistry International, 2007 Vols for 1964 v 2 no 1 1965 include selected articles translated from geochemical papers from other languages but primarily from Russian German French and Japanese

Proceedings of the Arctic Biodiversity Workshop Katrin Iken, Brenda Konar, 2003 The Arctic Biodiversity

Workshop had two distinct programs The first was to determine interest and need for a biodiversity study in the Arctic while the second discussed the joining of the longitudinal and latitudinal NaGISA transects with a transect that would cross the North Pacific Bering Sea at the Aleutian Islands P 1 *Sediment 2003* ,2003 Arctic Environment Variability in the Context of Global Change Leonid P. Bobylev, Kirill I. A. Kovlevich Kondrat'ev, Ola M. Johannessen, 2003-12-16 The main focus of this book is the study of environmental dynamics in the Arctic coupled with ecosystem dynamics Particular emphasis has been placed on problems of the composition of the Arctic atmosphere as well as changes in the composition due to human impacts The book also analyzes observational data and numerical modeling results that characterize the Arctic basin pollution dynamics and its impact on ecosystems Other topics covered include problems of general circulation in the atmosphere and oceans beginning with the 1930s when the Arctic was regarded as the kitchen of global weather and climate

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

Polarforschung ,2005

This book delves into Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance. Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance
 - Chapter 2: Essential Elements of Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance
 - Chapter 3: Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance in Everyday Life
 - Chapter 4: Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance. This chapter will explore what Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance is, why Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance is vital, and how to effectively learn about Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance.
3. In chapter 2, this book will delve into the foundational concepts of Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance. This chapter will elucidate the essential principles that must be understood to grasp Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance in its entirety.
4. In chapter 3, the author will examine the practical applications of Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance in daily life. This chapter will showcase real-world examples of how Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance in specific contexts. The fourth chapter will explore how Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Siberian River Run Off In The Kara Sea Characterisation Quantification Variability And Environmental Significance.

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