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Editors

THE ORGANIC CARBON CYCLE IN THE ARCTIC OCEAN



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Organic Carbon Cycle In The Arctic Ocean

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Organic Carbon Cycle In The Arctic Ocean:

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

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 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

Carbon Cycling in the Baltic Sea Karol Kulinski, Janusz Pempkowiak, 2012-01-05 The Baltic Sea is an area extensively explored by the oceanographers Hence it is one of the most often described marine areas in the scientific literature However there are still several fields which are poorly investigated and reported by scientists One of them is the carbon cycle of the Baltic Sea Although it is believed the shelf seas are responsible for about 20% of all marine carbon dioxide uptake while they constitute only 7% of the whole sea surface still a scientific debate exists on the role of the Baltic Sea in the global carbon cycle Carbon cycle of the Baltic Sea is intended to be a comprehensive presentation and discussion of state of the art research by biogeochemists involved in the Baltic Sea carbon cycle research This work presents both qualitative and quantitative descriptions of the main carbon flows in the Baltic Sea as well as their possible shifts induced by climatic and global change

The 1994 Arctic Ocean Section: The First Major Scientific Crossing of the Arctic Ocean , *Geochemical Cycling of 210Po and 210Pb in Marine Environments* Weifeng Yang, Jinzhou Du, Laodong Guo, 2022-03-14 Siberian River Run-off in the Kara Sea Stein Ruediger, 2003 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 Biogeochemistry of Marine Dissolved Organic Matter Dennis A. Hansell, Craig A. Carlson, 2024-07-04 Biogeochemistry of Marine Dissolved Organic Matter 3rd edition is the most up to date revision of the fundamental reference for the biogeochemistry of marine dissolved organic matter Since its original publication in June 2002 the science questions and priorities have advanced and the editors of this essential guide have added nine new chapters including one on the South China Sea An indispensable manual edited by the most distinguished experts in the field this book is addressed to graduate students marine scientists and all professionals interested in advancing their knowledge of the field Features up to date knowledge on DOM including 9 new chapters Presents the only published work to synthesize recent research on dissolved organic carbon in the South China Sea a region receiving a great deal of attention in recent decades Offers contributions by world class research leaders **Special Report** , 1996 *Ocean Mixing* Michael Meredith, Alberto Naveira Garabato, 2021-09-16 Ocean Mixing Drivers Mechanisms and Impacts presents a broad panorama of one of the most rapidly developing areas of marine science It highlights the state of the art concerning knowledge of the causes of ocean mixing and a perspective on the implications for ocean circulation climate biogeochemistry and the marine ecosystem This edited volume places a particular emphasis on elucidating the key future questions relating to ocean mixing and emerging ideas and activities to address them including innovative technology developments and advances in methodology Ocean Mixing is a key reference for those entering the field and for those seeking a comprehensive overview of how the key current issues are being addressed and what the priorities for future research are Each chapter is written by established leaders in ocean mixing research the volume is thus suitable for those seeking specific detailed information on sub topics as well as those seeking a broad synopsis of current understanding It provides useful ammunition for those pursuing funding for specific future research campaigns by being an authoritative source concerning key scientific goals in the short medium and long term Additionally the chapters contain bespoke and informative graphics that can be used in teaching and science communication to convey the complex concepts and phenomena in easily accessible ways Presents a coherent overview of the state of the art research concerning ocean mixing Provides an in depth discussion of how ocean mixing impacts all scales of the planetary system Includes elucidation of the grand challenges in ocean mixing and how they might be addressed *Marine Microbiome and Biogeochemical Cycles in*

Marine Productive Areas Alejandro A. Murillo, Veronica Molina, Chris Harrod, Julio Salcedo-Castro, 2020-01-16

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 with 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.

Climatic Change and Global Warming of Inland Waters Charles R. Goldman, Michio Kumagai, Richard D. Roberts, 2012-11-20 Effects of global warming on the physical, chemical, ecological structure and function and biodiversity of freshwater ecosystems are not well understood and there are many opinions on how to adapt aquatic environments to global warming in order to minimize the negative effects of climate change. *Climatic Change and Global Warming of Inland Waters* presents a synthesis of the latest research on a whole range of inland water habitats: lakes, running water, wetlands and offers novel and timely suggestions for future research, monitoring and adaptation strategies. A global approach offered in this book encompasses systems from the arctic to the Antarctic, including warm water systems in the tropics and subtropics and presents a unique and useful source for all those looking for contemporary case studies and presentation of the latest research findings and discussion of mitigation and adaptation throughout the world. Edited by three of the leading limnologists in the field, this book represents the latest developments with a focus not only on the impact of climate change on freshwater ecosystems but also offers a framework and suggestions for future management strategies and how these can be implemented in the future. Limnologists, climate change biologists, fresh water ecologists, palaeoclimatologists and students taking relevant courses within the earth and environmental sciences will find this book invaluable. The book will also be of interest to planners, catchment managers and engineers looking for solutions to broader environmental problems but who need to consider freshwater ecology.

Sea Ice David N. Thomas, Gerhard S. Dieckmann, 2009-11-06 As the Arctic perennial sea ice continues to disappear at an alarming rate, a full understanding of sea ice as a crucial global ecosystem and the effects of its loss is vital for all those working with and studying global climate change. Building on the success of the previous edition, the second edition of *Sea Ice* is now much expanded and in full colour throughout. It includes six completely new chapters with complete revisions of all the chapters included from the first edition.

The Editors Professor David Thomas and Dr Gerhard Dieckmann have once again drawn together an extremely impressive group of internationally respected contributing authors ensuring a comprehensive worldwide coverage of this incredibly important topic Sea Ice second edition is an essential purchase for oceanographers and marine scientists environmental scientists biologists geochemists and geologists All those involved in the study of global climate change will find this book to contain a wealth of important information All libraries in universities and research establishments where these subjects are studied and taught will need multiple copies of this book on their shelves truly multidisciplinary approach world leading authors and editors international in scope covering both Arctic and Antarctic work of vital interest to all those involved in global warming and climate change research highly illustrated full colour book with colour images throughout

Hydrobiogeochemistry of major asian rivers Shafi Mohammad Tareq,Xixi Lu,Mashura Shammi,Masahiro Maruo,2023-06-30 *Recarbonization of the Biosphere* Rattan Lal,Klaus Lorenz,Reinhard F. Hüttnl,Bernd Uwe Schneider,Joachim von Braun,2012-03-28 Human activities are significantly modifying the natural global carbon C cycles and concomitantly influence climate ecosystems and state and function of the Earth system Ever increasing amounts of carbon dioxide CO₂ are added to the atmosphere by fossil fuel combustion but the biosphere is a potential C sink Thus a comprehensive understanding of C cycling in the biosphere is crucial for identifying and managing biospheric C sinks Ecosystems with large C stocks which must be protected and sustainably managed are wetlands peatlands tropical rainforests tropical savannas grasslands degraded desertified lands agricultural lands and urban lands However land based sinks require long term management and a protection strategy because C stocks grow with a progressive improvement in ecosystem health **The Routledge Handbook of the Polar Regions** Mark Nuttall,Torben R Christensen,Martin Siegert,2018-07-18 The Routledge Handbook of the Polar Regions is an authoritative guide to the Arctic and the Antarctic through an exploration of key areas of research in the physical and natural sciences and the social sciences and humanities It presents 38 new and original contributions from leading figures and voices in polar research policy and practice as well as work from emerging scholars This handbook aims to approach and understand the Polar Regions as places that are at the forefront of global conversations about some of the most pressing contemporary issues and research questions of our age The volume provides a discussion of the similarities and differences between the two regions to help deepen understanding and knowledge Major themes and issues are integrated in the comprehensive introduction chapter by the editors who are top researchers in their respective fields The contributions show how polar researchers engage with contemporary debates and use interdisciplinary and multidisciplinary approaches to address new developments as well as map out exciting trajectories for future work in the Arctic and the Antarctic The handbook provides an easy access to key items of scholarly literature and material otherwise inaccessible or scattered throughout a variety of specialist journals and books A unique one stop research resource for researchers and policymakers with an interest in the Arctic and Antarctic it is also a comprehensive reference

work for graduate and advanced undergraduate students *Carbon Cycle in the Russian Arctic Seas* Alexander Vetrov, Evgeniĭ Aleksandrovich Romankevich, 2004-06-24 This study analyzes carbon cycle conditions controlling the state of the Arctic ecosystem and their seasonal variations Territory covered includes the Barents White Kara Laptev East Siberian and Chukchi Seas considering inter correlations between sources of organic carbon their fluxes recycling and burial in bottom sediments All biological communities phytoplankton macrophythobenthos microphythobentos bacterioplankton zooplankton and zoobenthos are taken into account regarding their participation in the carbon cycle Remote Sensing of the Asian Seas Vittorio Barale, Martin Gade, 2018-09-07 A wide variety of marginal basins ranging from polar to equatorial regions and a few sizeable enclosed basins can all be included among the Asian Seas The Arctic Ocean shelf seas off Siberia the sheltered basins along the Pacific Ocean's western rim the coastal seas of the northernmost Indian Ocean including the semi enclosed Red Sea and Persian Gulf the Caspian Sea the remnants of the Aral Sea and a score of brackish or freshwater lakes such as Lake Balkhash and Lake Baykal all exhibit a multiplicity of environmental features and processes Understanding the peculiarities of such a large and varied collection of marine and coastal types requires integrated observation systems among which orbital remote sensing must play an essential role This volume reviews the current potential of Earth Observations in assessing the many Asian seascapes using both passive and active techniques in diverse spectral regions such as measuring reflected visible and near infrared sunlight and surface emissions in the thermal infrared and microwave range or surface reflection of transmitted radar pulses in the microwave range An in depth evaluation of the available spectral regions and observation techniques as well as of novel multi technique methods ensures that suitable tools are indeed accessible for exploring and managing the wealth of resources that the Asian Seas have to offer **Changing Plankton Communities: Causes, Effects and Consequences** Kristian Spilling, Letizia Tedesco, Riina Klais, Kalle Olli, 2019-10-04 Marine ecosystems are changing at an unprecedented rate In addition to the direct effects of e g warming surface temperatures the environmental changes also cause shifts in plankton communities Plankton makes up the base of the marine food web and plays a pivotal role in global biogeochemical cycles Any shifts in the plankton community composition could have drastic consequences for marine ecosystem functioning This Research Topic focuses on causes effects and consequences of such shifts in the plankton community structure *Biogeochemical Dynamics at Major River-Coastal Interfaces* Thomas Bianchi, Mead Allison, Wei-Jun Cai, 2014 A comprehensive state of the art synthesis of biogeochemical dynamics and the impact of human alterations at major river coastal interfaces for advanced students and researchers

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