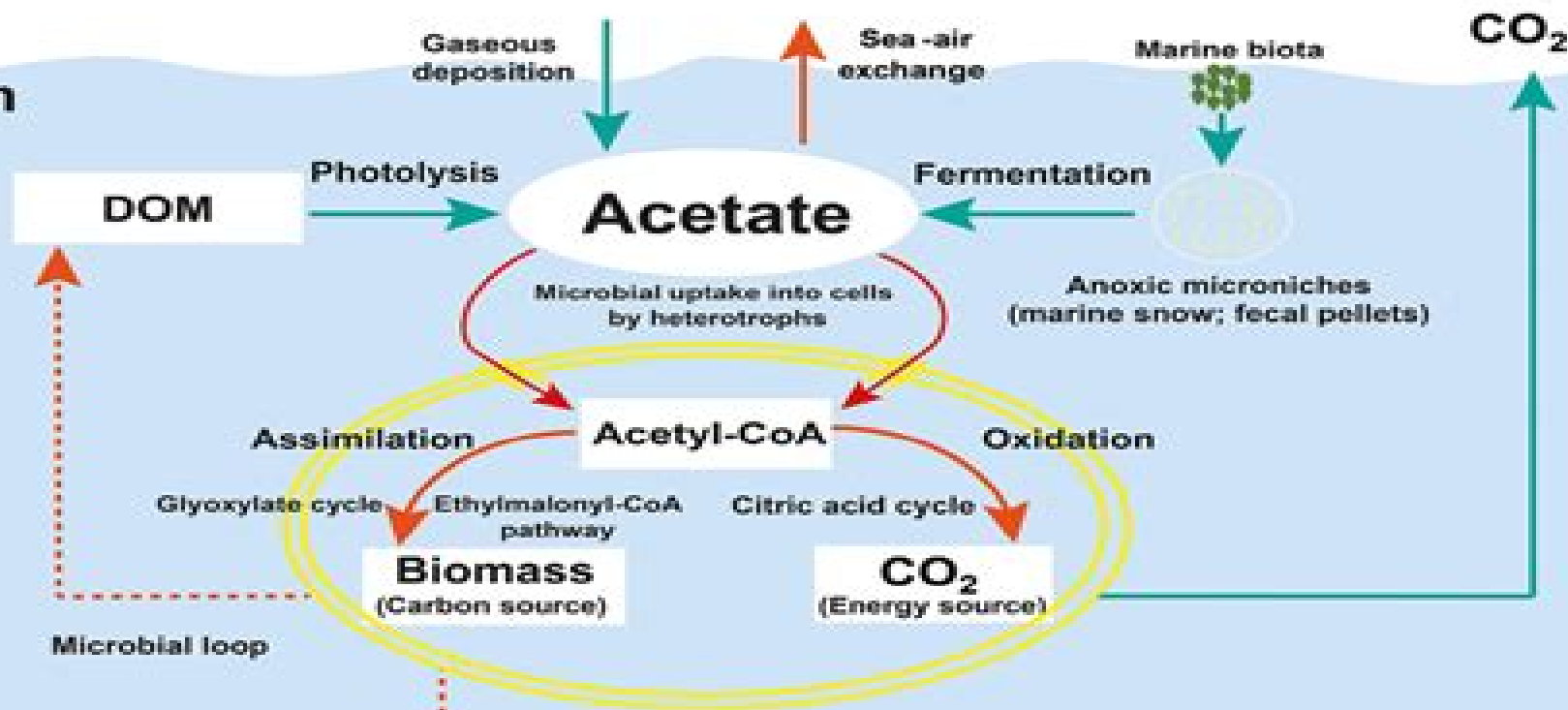


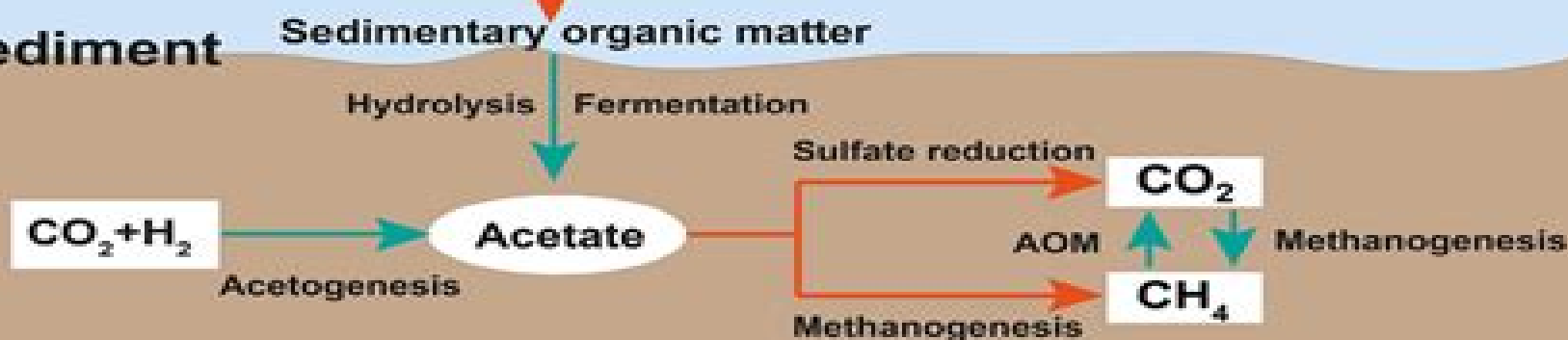
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Marine Biogeochemical Cycles

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Libes,2011-08-29 Introduction to Marine Biogeochemistry focuses on the ocean's role in the biogeochemical cycling of selected elements and the impact of humans on the cycling of these elements Among the topics covered are the chemical composition of seawater from the perspectives of elemental speciation and the impacts of solutes on water's physical behavior biogeochemical phenomena which control accumulation and preservation of marine sediments marine chemistry of radioactive and stable isotopes and seawater pollution The book contains many examples as well as steady state models to aid readers in understanding this growing and complex science The focus of Introduction to Marine Biogeochemistry is the concept of the ocean as a system linking land and atmospheric processes The text integrates the most current research allowing students to learn concepts in context Includes detailed coverage of computational aspects Marine Microbiome and Biogeochemical Cycles in Marine Productive Areas Alejandro A. Murillo,Veronica Molina,Chris Harrod,Julio Salcedo-Castro,2020-01-16

Ocean Biogeochemical Dynamics Jorge L. Sarmiento,2013-07-17 Ocean Biogeochemical Dynamics provides a broad theoretical framework upon which graduate students and upper level undergraduates can formulate an understanding of the processes that control the mean concentration and distribution of biologically utilized elements and compounds in the ocean Though it is written as a textbook it will also be of interest to more advanced scientists as a wide ranging synthesis of our present understanding of ocean biogeochemical processes The first two chapters of the book provide an introductory overview of biogeochemical and physical oceanography The next four chapters concentrate on processes at the air sea interface the production of organic matter in the upper ocean the remineralization of organic matter in the water column and the processing of organic matter in the sediments The focus of these chapters is on analyzing the cycles of organic carbon oxygen and nutrients The next three chapters round out the authors coverage of ocean biogeochemical cycles with discussions of silica dissolved inorganic carbon and alkalinity and CaCO_3 The final chapter discusses applications of ocean biogeochemistry to our understanding of the role of the ocean carbon cycle in interannual to decadal variability paleoclimatology and the anthropogenic carbon budget The problem sets included at the end of each chapter encourage students to ask critical questions in this exciting new field While much of the approach is mathematical the math is at a level that should be accessible to students with a year or two of college level mathematics and or physics

The Biogeochemical Cycle of Silicon in the Ocean Bernard Quéguiner,2016-06-20 In the biogeochemical dynamics of marine ecosystems silicon is a major element whose role has for a long time been underestimated It is however indispensable to the activity of several biomineralizing marine organisms some of which play an essential role in the biological pump of oceanic carbon This book presents notions indispensable to the knowledge on the silicon biogeochemical cycle in ocean systems first of all describing the main quantitative analysis techniques and examination of the major organisms involved in the cycle The author then moves on to study the most up to date processes to control the use of silicon and its regeneration in natural conditions before mentioning the central role played by this original element in the control of all the

biogeochemical cycles in the global ocean The available information finally enables the global biogeochemical budget of silicon in the marine environment to be quantified *Marine Carbon Biogeochemistry* Jack J. Middelburg, 2019-01-25 This open access book discusses biogeochemical processes relevant to carbon and aims to provide readers graduate students and researchers with insight into the functioning of marine ecosystems A carbon centric approach has been adopted but other elements are included where relevant or needed The book focuses on concepts and quantitative understanding of primary production organic matter mineralization and sediment biogeochemistry The impact of biogeochemical processes on inorganic carbon dynamics and organic matter transformation are also discussed *The Biogeochemical Cycle of Silicon in the Ocean* Bernard Quéguiner, 2016-06-16 In the biogeochemical dynamics of marine ecosystems silicon is a major element whose role has for a long time been underestimated It is however indispensable to the activity of several biomineralizing marine organisms some of which play an essential role in the biological pump of oceanic carbon This book presents notions indispensable to the knowledge on the silicon biogeochemical cycle in ocean systems first of all describing the main quantitative analysis techniques and examination of the major organisms involved in the cycle The author then moves on to study the most up to date processes to control the use of silicon and its regeneration in natural conditions before mentioning the central role played by this original element in the control of all the biogeochemical cycles in the global ocean The available information finally enables the global biogeochemical budget of silicon in the marine environment to be quantified

The Oceans and Marine Geochemistry H. Elderfield, 2006-06-20 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools *The Marine Microbiome* Lucas J. Stal, Mariana Silvia Cretoiu, 2022-02-28 This updated and expanded second edition reviews numerous aspects of the marine microbiome and its possible industrial applications The marine microbiome is the total of microorganisms and viruses in the ocean and seas and in any connected environment including the seafloor and marine animals and plants In the first part of the book diversity origin and evolution of the marine microorganisms and viruses are discussed The microbes presented originate from all three domains of life Bacteria Archaea and Eukarya The second part sheds some light on the different communities it describes marine habitats and how their inhabitants control biogeochemical cycles The third part finally examines the microbial ocean

as a global system and evaluates methods of utilizing marine microbial resources Adopting a translational approach the book connects academic research with industrial applications making it a fascinating read and valuable resource for microbiologists from both domains

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

The Cycling of Biogenic Elements and Their Microbial Transformations in Marine Ecosystems Feng Chen, Junfu Dong, Li Jianlon, 2024-12-11 With global climate change and the deterioration of the marine environment the biogeochemical processes of the main biogenic elements in the ocean have received considerable attention The spatiotemporal distribution patterns migration and transformation processes of marine biogenic elements as well as the responses to environmental factors such as global warming atmospheric sedimentation eutrophication ocean acidification and hypoxia have attracted widespread attention Microorganisms are the main drivers of the biogenic factor cycle Climate change and the deterioration of the marine environment have profoundly affected the structure and function of microbial communities leading to changes in the biogenic factor cycle mediated by microorganisms and changing the position and role of the oceans in the global biogenic factor cycle and climate change

Modeling of marine biogeochemical cycles with an emphasis on vertical particle fluxes Regina Usbeck, 1999

Marine Science & Technology in China: A Roadmap to 2050 Jianhai Xiang, 2010-08-04 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of marine science They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to China s modernization and provide S T decision makers with

comprehensive consultations for the development of S T innovation consistent with China s reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation s highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government s decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China s high tech enterprises through its active engagement in these areas Marine Biodiversity and Ecosystem Functioning

Martin Solan, Rebecca J. Aspden, David M. Paterson, 2012-07-19 This edited volume is the first to address the latest advances in biodiversity function science using marine examples It provides an in depth evaluation of the science before offering a perspective on future research directions for some of the most pressing environmental issues facing society today and in the future *Phaeocystis, major link in the biogeochemical cycling of climate-relevant elements* M.A. van Leeuwe, J. Stefels, S. Belviso, C. Lancelot, P.G. Verity, W.W.C. Gieskes, 2007-06-24 This volume offers a selection of papers presented at the final meeting of Working Group 120 Phaeocystis major link in the biogeochemical cycling of climate relevant elements of the Scientific Committee on Oceanic Research SCOR It features papers by various top authors in the field covering topics that reach from the organism level to ecosystem dynamics It also includes a synthesis of all the presentations of the meeting

Marine Geochemistry Roy Chester, 2012-12-06 The past two or three decades have seen many important advances in our knowledge of the chemistry physics geology and biology of the oceans It has also become apparent that in order to understand the manner in which the oceans work as a chemical system it is necessary to use a framework which takes account of these interdisciplinary advances Marine geochemistry has been written in response to the need for a single state of the art text that addresses the subject of treating the sea water sediment and rock reservoirs as a unified system In taking this approach a process orientated framework has been adopted in which the emphasis is placed on identifying key processes operating within the unified ocean In doing this particular attention has been paid to making the text accessible to students from all disciplines in such a way that future advances can readily be understood I would like to express my thanks to those people who have helped with the writing of this volume In particular I wish to put on record my sincere appreciation of extremely helpful suggestions made by Professor John Edmond FRS In addition I thank Dr S Rowlett for his comments on the sections covering the geochemistry of oceanic sediments and Dr G Wolff for his invaluable advice on the organic geochemistry of biota water and sediments It is a great pleasure to acknowledge the help of Dr K J T **Encyclopedia of Ecology** Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries

structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced. Written by an international team of leading experts, this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field. Entries cover a range of topics including Behavioral Ecology, Ecological Processes, Ecological Modeling, Ecological Engineering, Ecological Indicators, Ecological Informatics, Ecosystems, Ecotoxicology, Evolutionary Ecology, General Ecology, Global Ecology, Human Ecology, System Ecology. The first reference work to cover all aspects of ecology from basic to applied. Over 500 concise stand alone articles are written by prominent leaders in the field. Article text is supported by full color photos, drawings, tables and other visual material. Fully indexed and cross referenced with detailed references for further study. Writing level is suited to both the expert and non expert. Available electronically on ScienceDirect shortly upon publication.

Marine Chemistry P.J. Wangersky, 2000-03-27. The carbon dioxide absorption and gas exchange at the sea surface, marine aerosols and their photochemistry, the oceanic carbon cycle as well as biomarkers in marine ecosystems and related topics are of primary importance for understanding our global ecosystem. The topics addressed in this volume are all stemming from areas which have developed only in the last ten years of research or which have gone into decidedly new directions in that time. In most cases the recent research has been driven by advances in instrumentation or by large scale international cooperations. Thus this volume is also aiming at interdisciplinary and international cooperations in the future.

Ocean-Atmosphere Interactions of Gases and Particles Peter S. Liss, Martin T. Johnson, 2013-12-18. The oceans and atmosphere interact through various processes including the transfer of momentum, heat, gases and particles. In this book leading international experts come together to provide a state of the art account of these exchanges and their role in the Earth system with particular focus on gases and particles. Chapters in the book cover: i) the ocean atmosphere exchange of short lived trace gases; ii) mechanisms and models of interfacial exchange including transfer velocity parameterisations; iii) ocean atmosphere exchange of the greenhouse gases carbon dioxide, methane and nitrous oxide; iv) ocean atmosphere exchange of particles; and v) current and future data collection and synthesis efforts. The scope of the book extends to the biogeochemical responses to emitted/deposited material and interactions and feedbacks in the wider Earth system context. This work constitutes a highly detailed synthesis and reference of interest to higher level university students, Masters, PhD and researchers in ocean atmosphere interactions and related fields: Earth system science, marine atmospheric biogeochemistry, climate. Production of this book was supported and funded by the EU COST Action 735 and coordinated by the International SOLAS Surface Ocean Lower Atmosphere Study project office.

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