

THE ROLE OF NONLIVING ORGANIC MATTER IN THE EARTH'S CARBON CYCLE

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R.G. Zepp
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Role Of Nonliving Organic Matter In The Earths Carbon Cycle

**Teruaki Yoshida, B. Mabel Manjaji-
Matsumoto**



Role Of Nonliving Organic Matter In The Earths Carbon Cycle:

The Role of Nonliving Organic Matter in the Earth's Carbon Cycle Richard G. Zepp, Ch. Sonntag, 1995-07-11

Nonliving organic matter NLOM comprises the bulk of the organic carbon stored in the terrestrial biosphere and a major part of the organic carbon in the sea Organic substances which include litter marine detritus dissolved organic matter and soil organic matter have diverse effects on the Earth's biogeochemical processes and serve as a major reservoir of biospheric carbon which can be transformed to carbon dioxide methane and other greenhouse gases Given this broad spectrum of effects efforts to adapt to or perhaps benefit from global change require a better understanding and an ability to predict the role of NLOM in the global environment The overall objective of this volume is to provide experimental and modeling strategies for the assessment of the sensitivity of the global carbon cycle to changes in nonliving organic pools in terrestrial and aquatic ecosystems The discussions in this volume consider how best to characterize and quantify pools and fluxes of NLOM the role of NLOM cycling on a global scale human and climatic perturbations of interactions between NLOM and nutrients and biological chemical and physical processes that control the production and degradation of NLOM with an emphasis on processes that affect the persistence of NLOM in the environment One of the most unique aspects of this volume is that it represents extensive exchanges between leading international scientists from both aquatic and terrestrial backgrounds It will be of particular interest to organic geochemists microbiologists ecologists soil scientists agricultural scientists marine chemists limnologists and modelers Goal of this Dahlem Workshop to devise experimental and modeling strategies for assessment of the sensitivity of the global carbon cycle to changes in nonliving organic pools *The Potential of U.S. Forest Soils to Sequester Carbon and Mitigate the Greenhouse Effect* John M. Kimble, Rattan Lal, Richard Birdsey, Linda S. Heath, 2002-09-25 Much attention has been given to above ground biomass and its potential as a carbon sink but in a mature forest ecosystem 40 to 60 percent of the stored carbon is below ground As increasing numbers of forests are managed in a wide diversity of climates and soils the importance of forest soils as a potential carbon sink grows The Potenti

Runaway Climate Steven Earle, 2024-04-30 With tipping points and extreme global warming looming the key to understanding our climate future lies in our distant past If you care at all about our future you must read Runaway Climate Richard Heinberg Senior Fellow Post Carbon Institute With rising emissions we are on track to cause rapid global warming with devastating consequences But how bad could climate change get and what might it do to planet Earth and humanity Fifty six million years ago our planet experienced a period of intense warming known as the Paleocene Eocene Thermal Maximum PETM resulting in a rapid global temperature increase of about 7 C Triggered by natural geological processes over millennia and magnified by strong climate feedback loops the PETM lasted for about 180 000 years and drastically altered life on Earth Yet in only a few short decades we've pumped similar amounts of greenhouse gasses into the atmosphere making the PETM an unsettlingly apt analogy for our current predicament This deeply cautionary tale explores The runaway

feedbacks that pushed the PETM's climate past the tipping point. Subsequent cascades of environmental devastation from plant and animal migrations to ocean acidification, extreme weather and mass extinctions. A sobering vision of life on hothouse Earth, a hostile world of desertification, sea level rise, climate refugees and agricultural collapse. The urgent need for decisive individual and collective actions to slash carbon emissions, stabilize the climate and undertake a rapid transition to a cleaner and healthier future. Scientifically rigorous yet accessible to a wide audience. Runaway Climate is essential reading for every one committed to understanding and taking action on the climate emergency.

Assessment Methods for Soil Carbon John M. Kimble, Ronald F. Follett, B.A. Stewart, 2000-12-28. Since carbon sequestration in soils reduces the amount of carbon available to the atmosphere, the Kyoto Protocol has heightened interest in soil carbon pools and their effect on carbon fluxes. *Assessment Methods for Soil Carbon* addresses many of the questions related to the measurement, monitoring and verification of organic and inorganic carbon.

Remote Sensing of Coastal Aquatic Environments Richard L. Miller, Carlos E. Del Castillo, Brent A. McKee, 2007-03-22. This book provides extensive insight on remote sensing of coastal waters from aircraft and space-based platforms. The primary focus of the book is optical remote sensing using passive instruments to measure and analyze the coastal aquatic environment. The authors have gathered information from a variety of sources to help non-specialists grasp new techniques and technology to quickly produce useful data.

Biological/Chemical Oceanography Program Abstract Book, 1995. **Aquatic Humic Substances** Dag Hessen, Lars J. Tranvik, 2013-03-09. Humic substances occur in all kinds of aquatic systems but are particularly important in northern coniferous areas. They strongly modify the aquatic ecosystems and also constitute a major problem in the drinking water supply. This volume covers all aspects of aquatic humic substances from their origin and chemical properties, their effects on light and nutrient regimes and biogeochemical cycling to their role regarding organisms, productivity and food web organization from bacteria to fish. Special emphasis is paid to carbon cycling and food web organization in humic lakes but aspects of marine carbon cycling related to humus are treated as well.

The Effects of UV Radiation in the Marine Environment Stephen De Mora, Serge Demers, Maria Vernet, 2000-03-09. This book, first published in 2000, provides a comprehensive review of UV radiation effects in the marine environment. A multidisciplinary approach is adopted to discuss all aspects from a physical, chemical and biological perspective. The book begins by describing the attenuation of UV radiation in the atmosphere and sea water, outlining the photochemical reactions involved and highlighting the role that such chemistry can play in influencing the biogeochemical cycling of various elements. The deleterious consequences of such radiation on organisms and strategies adopted to mitigate these harmful repercussions are discussed. The organisms considered range from virus and bacteria through phytoplankton and zooplankton to fish and mammals. The book is aimed at researchers and graduate students in photobiology, photochemistry and environmental science. It will also be useful as a supplementary text for courses in oceanography, climatology and ecology.

Biogeochemistry W.H. Schlesinger, Emily S.

Bernhardt, 2013-01-14 For the past 4 billion years the chemistry of the Earth's surface where all life exists has changed remarkably. Historically these changes have occurred slowly enough to allow life to adapt and evolve. In more recent times the chemistry of the Earth is being altered at a staggering rate fueled by industrialization and an ever growing human population. Human activities from the rapid consumption of resources to the destruction of the rainforests and the expansion of smog covered cities are all leading to rapid changes in the basic chemistry of the Earth. The Third Edition of *Biogeochemistry* considers the effects of life on the Earth's chemistry on a global level. This expansive text employs current technology to help students extrapolate small scale examples to the global level and also discusses the instrumentation being used by NASA and its role in studies of global change. With the Earth's changing chemistry as the focus this text pulls together the many disparate fields that are encompassed by the broad reach of biogeochemistry. With extensive cross referencing of chapters, figures and tables and an interdisciplinary coverage of the topic at hand this text will provide an excellent framework for courses examining global change and environmental chemistry and will also be a useful self study guide. Emphasizes the effects of life on the basic chemistry of the atmosphere, the soils and seawaters of the Earth. Calculates and compares the effects of industrial emissions, land clearing, agriculture and rising population on Earth's chemistry. Synthesizes the global cycles of carbon, nitrogen, phosphorous and sulfur and suggests the best current budgets for atmospheric gases such as ammonia, nitrous oxide, dimethyl sulfide and carbonyl sulfide. Includes an extensive review and up to date synthesis of the current literature on the Earth's biogeochemistry. *Chemical Processes in Marine Environments* Antonio Gianguzza, Ezio Pelizzetti, Silvio Sammartano, 2013-06-29 This book discusses recent developments in the study of chemical processes and equilibria in the marine environment and in the air-water and water-sediment interfaces. The chemical cycle of carbon as well as the effect of organic substances on the speciation and distribution of inorganic and organometallic substances are extensively discussed. Much of the recent progress in the area is the direct result of advanced analytical technologies and chemometric applications which are highlighted in the book. **The Marine Ecosystems of Sabah** Teruaki Yoshida, B. Mabel Manjaji-Matsumoto, 2022-01-31 This book successfully bridges the gap between academic text to an informal study of the significance of life in the oceans around us providing an ideal introduction to the subject for conservationists, hobbyist, policymakers and students. The book sheds light on the pressing issues and focuses on the areas of research that Sabah is experiencing today as marine scientists from the Borneo Marine Research Institute continue to advance in understanding the marine environment of Sabah in line with the priorities of the state and the country. Explore a wide range of topics from single cell algae to large marine vertebrates from hydrodynamics and water quality to effects of marine plastic pollution from the biological to the physical and chemical aspects of the marine environment in Sabah. After going through each chapter it gives the saying Sabah is blessed with natural wonders a deeper reflection of what the ocean means to the environment and people of the state. **Highlights** Environmental Research Laboratory (Athens, Ga.), 1993

Photobiogeochemistry of Organic Matter Khan M.G. Mostofa, Takahito Yoshioka, Abdul Mottaleb, Davide Vione, 2012-12-15

Photoinduced processes caused by natural sunlight are key functions for sustaining all living organisms through production and transformation of organic matter OM in the biosphere Production of hydrogen peroxide H_2O_2 from OM is a primary step of photoinduced processes because H_2O_2 acts as strong reductant and oxidant It is potentially important in many aquatic reactions also in association with photosynthesis Allochthonous and autochthonous dissolved organic matter DOM can be involved into several photoinduced or biological processes DOM subsequently undergoes several physical chemical photoinduced and biological processes which can be affected by global warming This book is uniquely structured to overview some vital issues such as DOM H_2O_2 and ROOH HO Degradation of DOM CDOM FDOM Photosynthesis Chlorophyll Metal complexation and Global warming as well as their mutual interrelationships based on updated scientific results

Encyclopedia of Soil Science Rattan Lal, 2017-01-11 New and Improved Global Edition Three Volume Set A ready reference addressing a multitude of soil and soil management concerns the highly anticipated and widely expanded third edition of Encyclopedia of Soil Science now spans three volumes and covers ground on a global scale A definitive guide designed for both coursework and self study this latest version describes every branch of soil science and delves into trans disciplinary issues that focus on inter connectivity or the nexus approach For Soil Scientists Crop Scientists Plant Scientists and More A host of contributors from around the world weigh in on underlying themes relevant to natural and agricultural ecosystems Factoring in a rapidly changing climate and a vastly growing population they sound off on topics that include soil degradation climate change soil carbon sequestration food and nutritional security hidden hunger water quality non point source pollution micronutrients and elemental transformations New in the Third Edition Contains over 600 entries Offers global geographical and thematic coverage Entries peer reviewed by subject experts Addresses current issues of global significance Encyclopedia of Soil Science Third Edition Three Volume Set expertly explains the science of soil and describes the material in terms that are easily accessible to researchers students academicians policy makers and laymen alike Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

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Aquatic Ecosystems: Interactivity of Dissolved Organic Matter Stuart Findlay, Robert L. Sinsabaugh, 2003 Overviews of the source supply and variability of DOM surveys of the processes that mediate inputs to microbial food webs and syntheses consolidating research findings provide a comprehensive review of what is known of DOM in freshwater This book will be important to anyone interested in understanding the fundamental factors associated with DOM that control aquatic ecosystems

BOOK JACKET [Handbook of Climate Change and Agroecosystems](#) Daniel Hillel, Cynthia Rosenzweig, 2011 The portending process of climate change induced by the anthropogenic accumulations of greenhouse gases in the atmosphere is likely to generate effects that will cascade through the biosphere impacting all life on earth and bearing upon human endeavors Of special concern is the potential effect on agriculture and global food security Anticipating these effects demands that scientists widen their field of vision and cooperate across disciplines to encompass increasingly complex interactions Trans disciplinary cooperation should aim to generate effective responses to the portending changes including actions to mitigate the emissions of greenhouse gases and to adapt to those climate changes that cannot be avoided This handbook presents an exposition of current research on the impacts adaptation and mitigation of climate change in relation to agroecosystems It is offered as the first volume in what is intended to be an

ongoing series dedicated to elucidating the interactions of climate change with a broad range of sectors and systems and to developing and spurring effective responses to this global challenge As the collective scientific and practical knowledge of the processes and responses involved continues to grow future volumes in the series will address important aspects of the topic periodically over the coming years *Handbook Of Climate Change And Agroecosystems: Impacts, Adaptation, And Mitigation* Daniel Hillel, Cynthia Rosenzweig, 2010-09-03 The portending process of climate change induced by the anthropogenic accumulations of greenhouse gases in the atmosphere is likely to generate effects that will cascade through the biosphere impacting all life on earth and bearing upon human endeavors Of special concern is the potential effect on agriculture and global food security Anticipating these effects demands that scientists widen their field of vision and cooperate across disciplines to encompass increasingly complex interactions Trans disciplinary cooperation should aim to generate effective responses to the evolving risks including actions to mitigate the emissions of greenhouse gases and to adapt to those climate changes that cannot be avoided This handbook presents an exposition of current research on the impacts adaptation and mitigation of climate change in relation to agroecosystems It is offered as the first volume in what is intended to be an ongoing series dedicated to elucidating the interactions of climate change with a broad range of sectors and systems and to developing and spurring effective responses to this global challenge As the collective scientific and practical knowledge of the processes and responses involved continues to grow future volumes in the series will address important aspects of the topic periodically over the coming years *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 **Photosynthesis in silico** Agu Laisk, Ladislav Nedbal, Govindjee, 2009-06-19 Photosynthesis in silico Understanding Complexity from Molecules to Ecosystems is a unique book that aims to show an integrated approach to the understanding of photosynthesis processes In this volume using mathematical modeling processes are described from the biophysics of the interaction of light with pigment systems to the mutual interaction of individual plants and other organisms in canopies and large ecosystems up to the global ecosystem issues Chapters are written by 44 international authorities from 15 countries Mathematics is a powerful tool for quantitative analysis Properly programmed contemporary computers are able to mimic complicated processes in

living cells leaves canopies and ecosystems These simulations mathematical models help us predict the photosynthetic responses of modeled systems under various combinations of environmental conditions potentially occurring in nature e g the responses of plant canopies to globally increasing temperature and atmospheric CO₂ concentration Tremendous analytical power is needed to understand nature s infinite complexity at every level

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