



$\text{CO}_2$

phytoplankton

zooplankton

marine snow

Twilight Zone

# Ocean Carbon Cycle And Climate

**Mick Follows, Temel Oguz**



## **Ocean Carbon Cycle And Climate:**

The Ocean Carbon Cycle and Climate Mick Follows, Temel Oguz, 2004-08-03 Our desire to understand the global carbon cycle and its link to the climate system represents a huge challenge These overarching questions have driven a great deal of scientific endeavour in recent years What are the basic oceanic mechanisms which control the oceanic carbon reservoirs and the partitioning of carbon between ocean and atmosphere How do these mechanisms depend on the state of the climate system and how does the carbon cycle feed back on climate What is the current rate at which fossil fuel carbon dioxide is absorbed by the oceans and how might this change in the future To begin to answer these questions we must first understand the distribution of carbon in the ocean its partitioning between different ocean reservoirs the solubility and biological pumps of carbon the mechanisms controlling these reservoirs and the relationship of the significant physical and biological processes to the physical environment The recent surveys from the JGOFS and WOCE Joint Global Ocean Flux Study and World Ocean Circulation Experiment programs have given us a first truly global survey of the physical and biogeochemical properties of the ocean These new high quality data provide the opportunity to better quantify the present oceans reservoirs of carbon and the changes due to fossil fuel burning In addition diverse process studies and time series observations have clearly revealed the complexity of interactions between nutrient cycles ecosystems the carbon cycle and the physical environment

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**Climate Change and the Oceanic Carbon Cycle**, 2018-05 The carbon cycle in the Earth System constitutes a fundamental pressing research topic in modern Earth system science The greenhouse gases carbon dioxide CO<sub>2</sub> and methane CH<sub>4</sub> provide an important forcing factor of the global

climate which on the other hand controls the sources and sinks of these gases. In addition, the carbon cycle is currently being seriously perturbed by direct and indirect emissions from human activities. Unraveling and quantifying these interactions and feedbacks is essential to understand the climate history of the Earth but also to predict its evolution in the future. The ocean is important to climate change and global warming as a storer and transporter of heat and carbon but our understanding of the operative processes is inadequate to make predictions with the required skill. CO<sub>2</sub> increases will lead to the increased carbon storage by the land and ocean. Climate change will reduce the land and ocean's capacity to absorb atmospheric CO<sub>2</sub> due to the increasing temperatures of both the land and ocean and increasing oceanic stratification. The ocean, which has absorbed 27.9% of the anthropogenic CO<sub>2</sub> in the past 200 years, plays a crucial role in the global carbon cycle.

*Climate Change and the Oceanic Carbon Cycle* provides complete understanding of the variables and consequences of oceanic carbon cycling in the context of climate change. It reviews the ocean's role in the global CO<sub>2</sub> cycle and climate change, describes the importance of mesoscale processes in the ocean, examines the main pathways of carbon exchange between the ocean surface layer and the ocean interior, analyzes the scales of the physical processes involved in nutrient limitation of the biological pump, and reviews the implications for climate change. The contributed chapters explore the importance of marine plankton in carbon processing as well as the effects of rising CO<sub>2</sub> and temperature in their functioning.

*Climate Change and the Oceanic Carbon Cycle* Isabel Ferrera, 2017-01-12. This title includes a number of Open Access chapters. This valuable compendium provides an overview of the variables and consequences of oceanic carbon cycling in the context of climate change. The chapters highlight the importance of marine plankton in carbon processing as well as the effects of rising CO<sub>2</sub> and temperature in their functioning. Marine ecosystems are being increasingly threatened by growing human pressures including climate change. Understanding the consequences that climate change may have is crucial to predict the future of our oceans. Rising temperatures and ocean acidification may profoundly alter the mode of matter and energy transformation in marine ecosystems which could have irreversible consequences for our planet on ecological timescales. For that reason, the scientific community has engaged in the grand challenge of studying the variables and consequences of oceanic carbon cycling in the context of climate change, which has emerged as a relevant field of science. The book is broken into four sections: Understanding the Importance of Ocean Biogeochemistry, Quantifying Oceanic Carbon Variables, Phytoplankton and Oceanic Carbon Cycle, and Ocean Acidification. Edited by a researcher with many years of experience and with contributions from scientists from around the world, this volume explores the most important topics on climate change and oceanic carbon cycling.

*Ocean Carbon Cycle and Climate Change* Hein J. W. de Baar, 1993. *Atmospheric Carbon Dioxide and the Global Carbon Cycle* John R. Trabalka, 1986. **Ocean Biogeochemistry** Michael J.R. Fasham, 2012-12-06. Oceans account for 50% of the anthropogenic CO<sub>2</sub> released into the atmosphere. During the past 15 years, an international programme, the Joint Global Ocean Flux Study (JGOFS), has been studying the ocean carbon cycle to quantify and model the biological and

physical processes whereby CO<sub>2</sub> is pumped from the ocean's surface to the depths of the ocean where it can remain for hundreds of years. This project is one of the largest multi-disciplinary studies of the oceans ever carried out and this book synthesises the results. It covers all aspects of the topic ranging from air-sea exchange with CO<sub>2</sub>, the role of physical mixing, the uptake of CO<sub>2</sub> by marine algae, the fluxes of carbon and nitrogen through the marine food chain to the subsequent export of carbon to the depths of the ocean. Special emphasis is laid on predicting future climatic change. Ecological Climatology Gordon Bonan, 2016. The thoroughly updated new edition of Gordon Bonan's comprehensive textbook on terrestrial ecosystems and climate change for advanced students and researchers. **Ocean Dynamics and the Carbon Cycle** Richard G. Williams, Michael J. Follows, 2011-07-14. This textbook for advanced undergraduate and graduate students presents a multidisciplinary approach to understanding ocean circulation and how it drives and controls marine biogeochemistry and biological productivity at a global scale. Background chapters on ocean physics, chemistry and biology provide students with the tools to examine the range of large-scale physical and dynamic phenomena that control the ocean carbon cycle and its interaction with the atmosphere. Throughout the text, observational data is integrated with basic physical theory to address cutting-edge research questions in ocean biogeochemistry. Simple theoretical models, data plots and schematic illustrations summarise key results and connect the physical theory to real observations. Advanced mathematics is provided in boxes and appendices where it can be drawn on to assist with the worked examples and homework exercises available online. Further reading lists for each chapter and a comprehensive glossary provide students and instructors with a complete learning package. *The Global Carbon Cycle* Christopher B. Field, Michael R. Raupach, 2004-03-15. The Global Carbon Cycle offers a scientific assessment of the state of current knowledge of the carbon cycle by the world's leading scientists. **Carbon Cycling in the Glacial Ocean** Rainer Zahn, 1994. *Our Changing Planet* U.S. Global Change Research Program, 2007. **Ocean Circulation and Climate** Toste Tanhua, Nicholas R. Bates, Arne Körtzinger, 2013-10-22. Carbon is a fundamental component of all life and its gaseous form, carbon dioxide (CO<sub>2</sub>), is an important atmospheric regulator of Earth's climate. Over societally relevant timescales, diverse physical, biological and chemical processes in the global ocean have a very important role in controlling the exchanges of CO<sub>2</sub> with the atmosphere and climate, given that the ocean contains roughly 60 times more carbon than the atmosphere. The complex and dynamic marine carbon cycle is thus a fundamental part and regulator of life on Earth, requiring monitoring of its variability and understanding of the feedbacks to the climate system. This is particularly relevant given that emissions of human-produced anthropogenic CO<sub>2</sub> through fossil fuel and land use changes have led to significant perturbations in the global carbon cycle. A large fraction of emitted anthropogenic carbon has been and will be absorbed by the oceans, with implications for seawater chemistry, ocean pH levels and the biological communities contained within. During the last few decades, quantification of the ocean sink of CO<sub>2</sub> and its temporal evolution of the marine carbon cycle has been an important driver of marine biogeochemical research.

Scientific expeditions such as the World Ocean Circulation Experiment Joint Global Ocean Flux Study global surveys conducted during the 1990s provided the data for the first global estimates of the uptake and oceanic sink of Carbon. More recently completion of a second global survey of the marine carbon cycle from 2000 to 2013 provided sufficient data to assess the rate of uptake and storage of Carbon within the interior of the global ocean. From this effort it has become clear that there is substantial regional and temporal variability of the storage rate of Carbon and those physico-biogeochemical processes that influence the marine carbon cycle. Here we review seawater carbonate chemistry, the sampling strategies and networks required to observe variability in the global ocean carbon cycle and the flux of carbon between the ocean and the atmosphere but with a central focus synthesizing and summarizing available estimates of the ocean uptake and inventories of Carbon. This chapter is aimed at a wider audience within the oceanographic community and points to the rich literature on marine carbon cycle research.

**Global Climate Change and Response of Carbon Cycle in the Equatorial Pacific and Indian Oceans and Adjacent Landmasses** Hodaka Kawahata, Yoshio A. Awaya, 2006-12-08 To understand the global warming mechanism, global mapping of primary production was carried out under the GCMAPS program. The program was concerned with marine and terrestrial environmental changes which affect carbon cycle on the regional and global scales. On the regional scale, warm phase of ENSO (El Niño Southern Oscillation) has been shown to affect economic activities in many countries. The keyword for understanding mechanism of global warming is primary productivity. The earth observation satellites EOS like the ADEOS of Japan and the SeaWiFS, Sea Star and Terra of the U.S.A provided much required data for modeling and verification of primary production estimates on both land and ocean. The knowledge gained during the GCMAPS program has been documented in this book. Interpretation of the data suggests that global warming which causes temperature and sea level rise and changes in climate and ecosystems is likely to have the largest influence on mankind. The first half of this book discusses changes in marine environments. Physical and chemical oceanographic properties of the equatorial Pacific and Indian Oceans are presented. Changes in partial pressure of carbon dioxide flux and composition of settling particles and biological communities in the surface ocean have also been discussed. In addition to this, over hundred years of environmental records based upon coral skeletons are presented. Estimations of primary production and its utilization in validating satellite imagery data were conducted in the western North Pacific. Primary productivity estimates based upon the validated satellite imagery are presented on the global scale. Climate change modeling of primary production in global oceans is also presented. The latter half of this book deals with changes in terrestrial environments. Primary productivity estimates for different types of ecosystems (e.g. forest, grassland) are presented together with soil carbon dynamics. Also, biomass and productivity estimation and environmental monitoring based upon remote sensing techniques are presented with a model analysis of the relationship between climate perturbations and carbon budget anomalies in global terrestrial ecosystems. This book elucidates integrated aspects of the global carbon cycle involving marine and terrestrial

environments Discusses a current understanding of the biogeochemical processes on land and ocean Provides global mapping of primary production based on satellite imagery data and modelling Presents the latest interpretations of relationships between carbon cycle and climatic change

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*The Global Carbon Cycle* David Archer,2010-11-01 A must have introduction to this fundamental driver of the climate system The Global Carbon Cycle is a short introduction to this essential geochemical driver of the Earth s climate system written by one of the world s leading climate science experts In this one of a kind primer David Archer engages readers in clear and simple terms about the many ways the global carbon cycle is woven into our climate system He begins with a concise overview of the subject and then looks at the carbon cycle on three different time scales describing how the cycle interacts with climate in very distinct ways in each On million year time scales feedbacks in the carbon cycle stabilize Earth s climate and oxygen concentrations Archer explains how on hundred thousand year glacial interglacial time scales the carbon cycle in the ocean amplifies climate change and how on the human time scale of decades the carbon cycle has been dampening climate change by absorbing fossil fuel carbon dioxide into the oceans and land biosphere A central question of the book is whether the carbon cycle could once again act to amplify climate change in centuries to come for example through melting permafrost peatlands and methane hydrates The Global Carbon Cycle features a glossary of terms suggestions for further reading and explanations of equations as well as a forward looking discussion of open questions about the global carbon cycle

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*The Carbon Isotope Minimum Event and Changes in Southern Ocean Carbon Cycling at the Start of the Last Deglaciation* Kathryn Anna Rose,2007

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