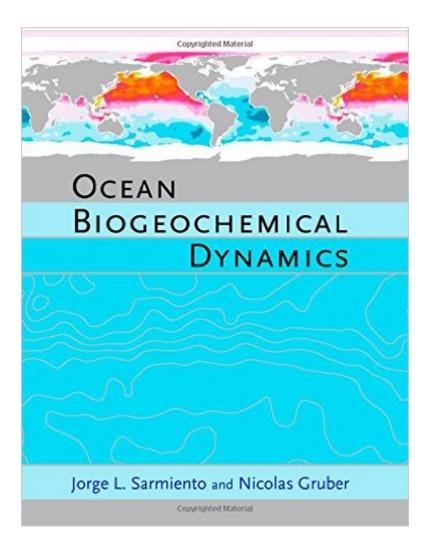
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# **Ocean Biogeochemical Dynamics**





## Synopsis

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 CaCO3. 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.

## **Book Information**

Hardcover: 528 pages Publisher: Princeton University Press (June 9, 2006) Language: English ISBN-10: 0691017077 ISBN-13: 978-0691017075 Product Dimensions: 8.7 x 1.5 x 11 inches Shipping Weight: 3.7 pounds (View shipping rates and policies) Average Customer Review: 4.3 out of 5 stars Â See all reviews (3 customer reviews) Best Sellers Rank: #414,316 in Books (See Top 100 in Books) #36 in Books > Science & Math > Chemistry > Geochemistry #152 in Books > Science & Math > Nature & Ecology > Oceans & Seas > Oceanography #288 in Books > Science & Math > Nature & Ecology > Ecosystems

## **Customer Reviews**

This book will introduce you to the basics and important concepts of biogeochemical oceanography.

It's a good reference book and I think it will be helpful for graduate students to prepare for their qualification exams.

I have a very positive opinion... the process was clear and the delivery fast..so I am happy with and I will recomend it to my friends.

#### Thank you for excellent items

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