

This new edition of *Biological Oceanography* has been greatly updated and expanded since its initial publication in 2004. It presents current understanding of ocean ecology emphasizing the character of marine organisms from viruses to fish and worms, together with their significance to their habitats and to each other.

The book initially emphasizes pelagic organisms and processes, but benthos, hydrothermal vents, climate-change effects, and fisheries all receive attention. The chapter on oceanic biomes has been greatly expanded and a new chapter reviewing approaches to pelagic food webs has been added. Throughout, the book has been revised to account for recent advances in this rapidly changing field. The increased importance of molecular genetic data across the field is evident in most of the chapters.

As with the previous edition, the book is primarily written for senior undergraduate and graduate students of ocean ecology and professional marine ecologists.

CHARLIE MILLER, now Emeritus Professor of Oceanography at Oregon State University, taught biological oceanography and zooplankton biology for many years. His research contributions have concentrated on seasonal processes in the ecology of marine zooplankton, particularly copepods, in the Oregon coastal zone and estuaries, the Gulf of Alaska, Georges Bank and the Gulf of Maine.

PAT WHEELER, now Emeritus Distinguished Professor of Oceanic and Atmospheric Sciences at Oregon State University, taught biological oceanography and phytoplankton physiology there for many years. Her research contributions address phytoplankton nutrient dynamics and include work on dissolved organic carbon and nitrogen. She conducted field work in the Equatorial Pacific, the northern California Current system and the Arctic Ocean.

Cover images: the background image is a false-color satellite map of chlorophyll concentration (ranging from low values in blue to high values in red) in the region between New England, USA, including the Gulf of Maine and Georges Bank, to the Sargasso sea. Courtesy of GeoEye and NASA SeaWiFS project. Inset pictures are the dinoflagellate *Ceratocorys horrida* (SEM photograph from Zirbel, Veron, and Latz, 2000) and the predatory, egg-carrying copepod *Euchaeta norvegica*. (Photograph by Jeanette Yen, Georgia Institute of Technology.)

Cover design by Design Deluxe

Companion Website

This book has a companion website www.wiley.com/go/miller/oceanography with Figures and Tables from the book for downloading.



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