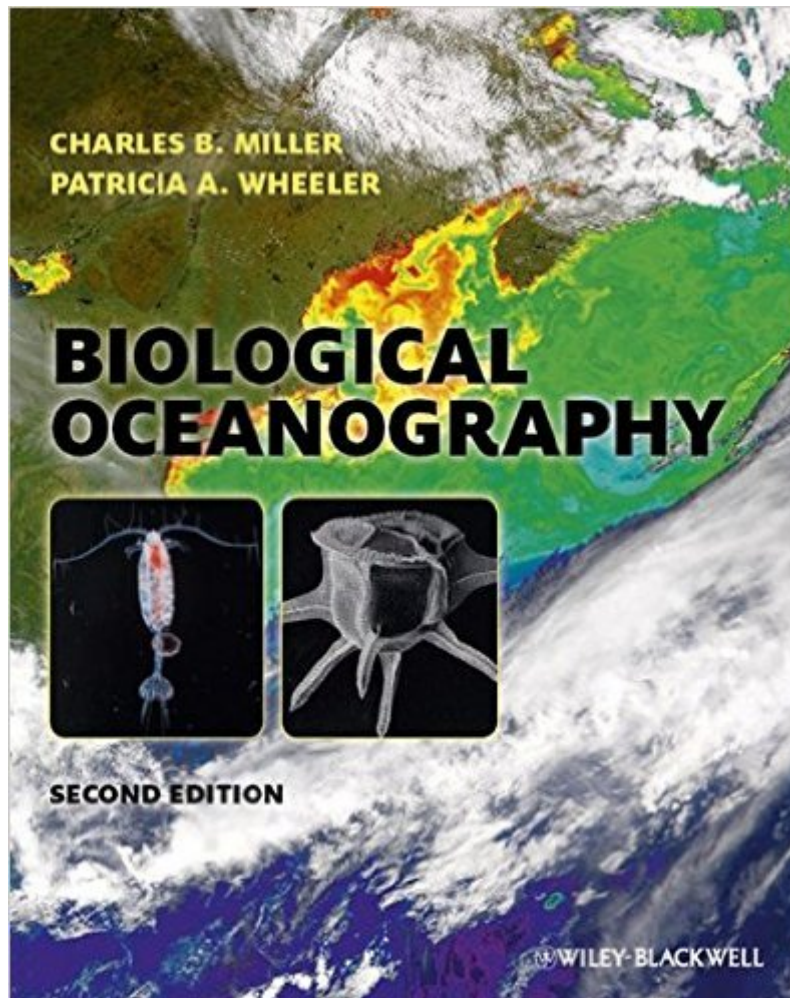


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Biological Oceanography



Synopsis

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. Visit www.wiley.com/go/miller/oceanography to access the artwork from the book.

Book Information

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Customer Reviews

Review of Biological Oceanography by Miller and Wheeler (2012, second edition) Sometimes a textbook captures the voice of its author so perfectly that upon reading it you can imagine yourself in a large lecture hall listening with rapt attention. The author carefully and deliberately builds each piece of the story so that by the end of the book you feel as if you know the person as well as the subject, and in that familiarity, you have a deeper understanding of the field than would otherwise be the case. It was in that sense that I absolutely loved the first edition of Biological Oceanography by

Miller (2004). Would the second edition, with the addition of author Pat Wheeler, generate the same enthusiasm? In my view, Biological Oceanography as a discipline is an integrated systems science that exposes the interactions between the physics, chemistry, and biology of the ocean. But like the first edition, the second edition distinguishes itself as a more organismal-than-ecological approach to the subject of biological oceanography (though ecology is carefully woven into each chapter). The Preface of both editions recommends Mann's Dynamics of Marine Ecosystems for those wishing a more systems approach (i.e., biological-physical interactions). The original Table of Contents remains intact with the exception of a new first chapter, a reverse in order of the last two chapters, and the addition of a chapter on pelagic food webs (Chapter 9). Similarly, the text aims to serve graduate-level and advanced-undergraduate level courses in biological oceanography. Despite its obvious similarities, the second edition represents a significant revision and expansion of the first. The level of detail has grown considerably, and a much greater number of references appear in the text.

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