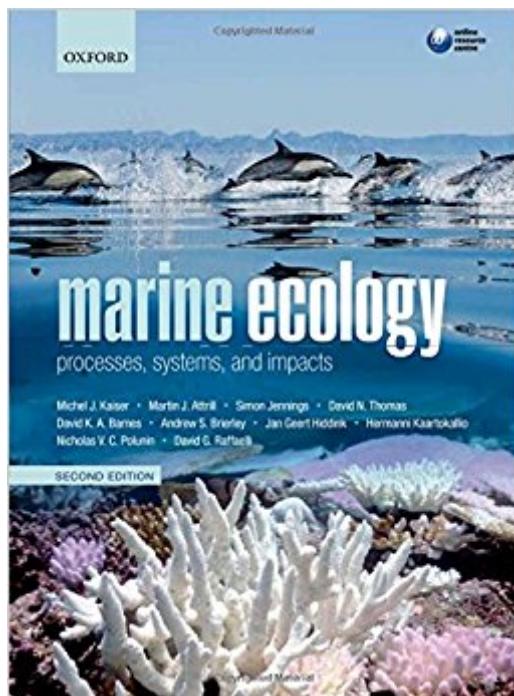


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# Marine Ecology: Processes, Systems, And Impacts



## Synopsis

The oceans cover the majority of the Earth's surface; they influence our climate and provide a valuable source of food to billions of people. However, despite its fundamental impact on our lives, many aspects of the marine environment remain a mystery to us. *Marine Ecology: Processes, Systems, and Impacts*, Second Edition, offers a carefully balanced and stimulating survey of marine ecology, introducing the key processes and systems from which the marine environment is formed and the issues and challenges that surround its future. Opening with an overview of the major processes and interactions of marine ecology, the book goes on to explore the diverse systems from which the marine environment is composed, from estuaries to seabeds and from the deep sea to polar regions. The final section examines human activities that impact the marine environment--fisheries, aquaculture, pollution, and global warming--before considering measures that can be taken to mitigate their adverse effects on it. *Marine Ecology: Processes, Systems, and Impacts* is an essential resource for any student wishing to develop a well-balanced, informed understanding of this fascinating subject. The second edition offers enhanced coverage of socioeconomic issues and climate change and new "Hot Topic" text boxes that discuss contemporary research.

**FEATURES\***

- Places key concepts and issues from a diverse range of marine systems into a real-world context\*
- Carefully structured into well-defined, logical sections that facilitate ease and flexibility of use\*
- Striking full-color illustrations and photographs bring the subject alive\*
- Many detailed case studies enliven the text and add a further level of depth and insight\*
- Key concepts and issues are treated from a global perspective, using examples from around the world\*
- Rich pedagogy highlights and elucidates important information\*
- A Companion Website provides resources for students and instructors

## Book Information

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## Customer Reviews

Review from previous edition: "This book is an original and well-integrated approach to the discipline, providing a fresh perspective to what is already a very popular scientific area. It breaks the traditional formats of previous textbooks and has put some careful thought into how to approach the subject from a more modern and realistic viewpoint. ... an excellent introductory text which students will find easy to assimilate and will stimulate their interest in marine ecology."

--Journal of Experimental Marine Biology and Ecology"Marine Ecology: Processes, Systems, and Impacts will be of interest to all whose research involves any aspect of aquatic photosynthesis and will be invaluable for advanced undergraduates and postgraduates entering this area."

--Photosynthetica, 2006"The text is sprinkled with discussions of bygone hypotheses or methods. Each discussion further impresses upon the reader science's fluid nature. Good! Texts of all levels should reinforce the idea that knowledge is dynamic. As science and scientists move away from the ivory tower and become more engaged in policy making, it is gratifying to see ecology texts such as this one with a heavy emphasis on environmental impacts; as it should be, fully 20% of the book is devoted to human imprints in the marine environment."

--Limnology and Oceanography Bulletin, Volume 15 (3), September 2006, p53-54"This book is an excellent addition to the range of available marine ecology text books and has many advantages over its competitors, not least the fact that it is international in its coverage and not USA centered! I will certainly be using it as the main text book for basic marine biology courses from now on."

--Chris L.J. Frid, University of Liverpool, in Environmental Conservation, Vol 33 (2), 2006"I would thoroughly recommend the text to fellow marine scientists and educators as it provided me with some much needed revision of subjects I had picked up incorrectly in the past. A major strength of this work, and one that sets it apart from the approach adopted by older marine ecology textbooks, is the emphasis on human-induced impacts to the marine realm. This book will be of use to current practitioners and inform a new generation of marine scientists about major ways in which we are influencing the ecology of our seas."

--Fish and Fisheries, Volume 7 Page 228 - September 2006

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Centre for Environment, Fisheries and Aquaculture Science. David N. Thomas is with the School of Ocean Sciences at Bangor University. David K. A. Barnes is with the British Antarctic Survey, National Environment Research Council.

While the content is good overall, the authors do not always present the material in a streamlined fashion, and it feels like some of the paragraphs are very redundant. There are also quite a number of editorial mistakes and typos present.

I found this textbook's writing to be rather unwieldy and its organization lacking.

Good delivery but poorly written

A solid resource. The material here is presented in such a way as to be accessible for a non-biologist like myself. I find returning to the text time after time is a treat.

This book was exactly what I needed and it came just in the right amount of time. This is a great and informative textbook.

good book

The book is outdated and Michel J Kaiser does not do a good job in representing the current status of scientific research.

The book arrived very fast and in perfect conditions!! This book is very good, talks about every marine regions, from the Coastal Ecosystems to the Polar regions!!! The book is small, light and have many pictures and tables!! I recommend this book, specially for university students!!

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