



Ecology of Marine Sediments

By John S. Gray, Michael Elliot

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Marine sediments provide the largest habitat on planet earth, yet knowledge of the structure and function of their flora and fauna continues to be poorly described in current textbooks. This concise, readable introduction to benthic ecology builds upon the strengths of the previous edition but has been thoroughly revised throughout to incorporate the new technologies and methods that have allowed a rapid and ongoing development of the field. It explores the relationship between community structure and function, and the selection of global examples ensures an international appeal and relevance. The economic value of marine sediments increases daily, reflected in the text with a new emphasis on pollution, climate change, conservation, and management. This accessible textbook is suitable for both advanced undergraduate and graduate students who have had a general ecology course, but no further training in benthic ecology. It will also be of relevance and use to professional researchers and consultants in marine ecology and environmental science who seek a compact but comprehensive introduction to benthic ecology.

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Review

"A valuable contribution to the biological literature. The reader is quickly pointed in the right direction on a myriad of topics ranging from sampling bias and spacing, to methods of field-data acquisition, and its statistical treatment."--*Palaaios*

"This volume will be a useful and quick introduction for graduate students and advanced undergraduates of the analysis of benthic sampling for use in monitoring programs and integrative studies that seek to extract general features of communities from large sampling schemes."--*The Quarterly Review of Biology*

About the Author

John S. Gray was Professor of Marine Biology at the University of Oslo, Norway and did research on marine soft sediments for over 40 years. He is one of ISI's Highly-Cited Scientists in Plant and Animal Ecology. He was a member of the Norwegian Academy of Arts and Letters and a recipient of the Fridtjof Nansen prize for his research. In 2006 he was a co-recipient of the John Martin award of the American Society for Limnology and Oceanography. He did research in the Arctic, Antarctic, Great Barrier Reef, Vanuatu, Hong Kong, the East and West coasts of USA and the North Sea and Norwegian continental shelf. Sadly, John died in October 2007, just days after submitting his final manuscript. Michael Elliott is Professor of Estuarine and Coastal Sciences and the Director of the Institute of Estuarine and Coastal Studies (IECS) at the University of Hull, United Kingdom and has been researching estuarine and coastal science and management for 35 years. His research particularly relates to the influence of human activities on estuarine and marine ecology and the way in which society manages those activities. He has published widely on many aspects of these topics including the related text 'The Estuarine Ecosystem' (co-authored with Donald S McLusky). He is a Fellow of the Institute of Biology and President of the Estuarine and Coastal Sciences Association (ECSA)

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