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Understanding Marine Biodiversity

By Committee on Biological Diversity in Marine Systems,
Environment and Resources Commission on Geosciences,
Division on Earth and Life Studies

National Academies Press, United States, 1995. Paperback.
Book Condition: New. Revised ed.. 229 x 152 mm. Language: English . Brand New Book. The diversity of marine life is being affected dramatically by fishery operations, chemical pollution and eutrophication, alteration of physical habitat, exotic species invasion, and effects of other human activities. Effective solutions will require an expanded understanding of the patterns and processes that control the diversity of life in the sea. Understanding Marine Biodiversity outlines the current state of our knowledge, and propose research agenda on marine biological diversity. This agenda represents a fundamental change in studying the ocean--emphasizing regional research across a range of space and time scales, enhancing the interface between taxonomy and ecology, and linking oceanographic and ecological approaches. Highlighted with examples and brief case studies, this volume illustrates the depth and breadth of undescribed marine biodiversity, explores critical environmental issues, advocates the use of regionally defined model systems, and identifies a series of key biodiversity research questions. The authors examine the utility of various research approaches--theory and modeling, retrospective analysis, integration of biotic and oceanographic surveys--and review recent advances in molecular genetics, instrumentation, and sampling techniques applicable to the research agenda. Throughout the book the...

Reviews

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