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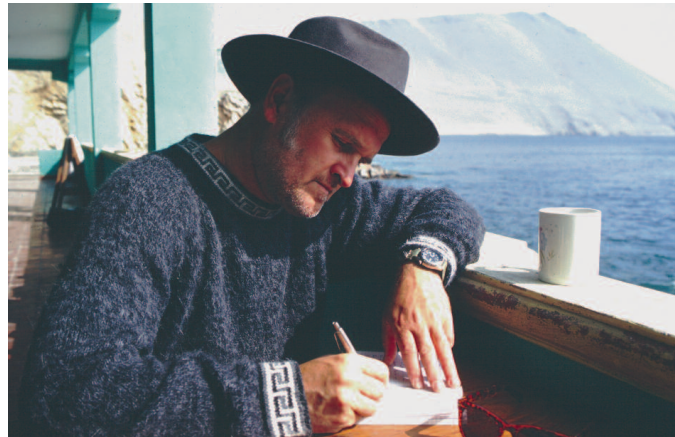
Hiermit bestelle ich (portofrei) fest:  
Exemplar(e)  
Matthias Wolff

**Tropical Waters and their Living Resources:  
Ecology, Assessment and Management**

344 Seiten, Format 17,0 x 24,5 cm, gebunden farbig, 105 Abbildungen,  
davon 73 farbig. Hardcover farbig.  
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**Box 2.1: Large Marine Ecosystems**

The Large Marine Ecosystem (LME) concept for coastal and inshore waters has been developed by Sherman and colleagues since the mid-1980s (e.g. Sherman and Duda, 1999), addressing the need for a sustainable ecosystem management approach to marine resources especially in areas, where several countries are involved in the exploitation of fish stocks. LMEs are regions encompassing coastal areas from river basins and estuaries out to the continental shelf break or to the seaward margins of coastal current systems. They expand over rather large spatial scales, typically in the order of 200 000 km<sup>2</sup> or more, and they are characterised by distinct bathymetry, hydrography and trophically dependent populations. The LME concept offers the framework for integrated international research initiatives involving all range states and foreign stakeholders. It has proven suitable to develop focussed large-scale and long-term monitoring and mediation strategies when dealing with overexploitation, pollution issues and habitat loss. Up to date, 64 LMEs (Figure 2.1) have been described, together accounting for 95% of the global marine fishery yields. International funding agencies, such as the Global Environmental Facility (GEF) and the World Bank, assist developing countries in their efforts to improve the assessment and management of LMEs aiming at the long-term productivity and sustainability of marine habitats and resources.

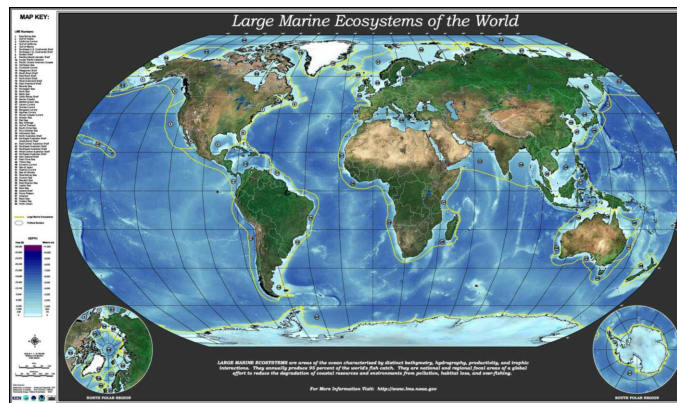


Figure 2.1: Large Marine Ecosystems

**NEUERSCHEINUNG**

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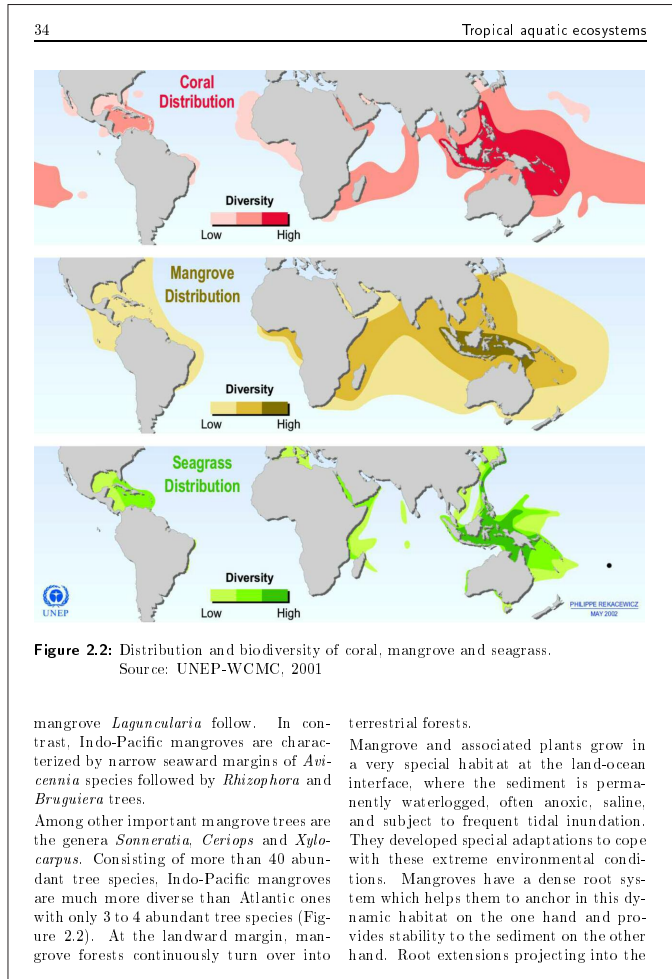
# Tropical Waters and their Living Resources: Ecology, Assessment and Management

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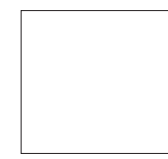
Management and conservation of aquatic ecosystems require in-depth knowledge and understanding of the ecosystem functions, of the approaches for resource assessment and management and of the socioeconomic context, within which resource user's act.

Our book wants to help the reader navigating through these complex issues by combining and integrating the knowledge of the different research disciplines involved. The nine book chapters (on a total of 343 pages) cover fundamentals of ecology, the description of aquatic ecosystems, a review of aquatic resources and their use, threats, modeling tools, approaches for coastal planning, the law of the sea, as well as principles of biostatistics and guidelines on how to communicate science. The book is meant as a "back ground reader" for students and professionals working in the field of tropical coastal research and management.

It is the result of 10 years experience with an ongoing International Master of Science Programme named ISA-TEC (International Studies in Aquatic Tropical Ecology). This programme is coordinated by the Center for Tropical Marine Ecology (ZMT) and is being conducted jointly with the University of Bremen and many partners abroad.



- ◆ This book also contains useful information on scientific working methods for students, including communicating results, discussing findings and structuring research papers
- ◆ each chapter can be recapitulated through questions at the end



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