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Nota di contenuto	; pt. I Threats to marine ecosystems and resources. Management, transitioning from single-sector management to ecosystem-based management : what can marine protected areas offer? / Simonetta Fraschetti, Joachim Claudet, Kirsten Grorud-Colvert -- ; pt. II Effects of marine protected areas. Ecology, ecological effects of marine protected areas : conservation, restoration, and functioning / Joachim Claudet, Paolo Guidetti, David Mouillot, Nick T. Shears, Fiorenza Micheli ; Fisheries, effects of marine protected areas on local fisheries : evidence from empirical studies / Raquel Goni, Fabio Badalamenti, Mark H. Tupper ; Bioeconomy, economically optimal spatial and inter-temporal fishing patterns in a metapopulation / James N. Sanchirico ; Socio-economy, social dynamics of scaling-up marine protected areas declarations and management / Patrick Christie, Richard Pollnac -- ; pt.

III Assessment of the effectiveness of marine protected areas. Ecology, assessing effects of marine protected areas : confounding in space and possible solutions / Craig W. Osenberg, Jeffrey S. Shima, Sonja L. Miller, Adrian C. Stier ; Fisheries, monitoring fisheries effects of marine protected areas : current approaches and the need for integrated assessments / Vanessa Stelzenmuller, John K. Pinnegar ; Bioeconomy, bioeconomic analysis of marine protected area fisheries effects / Jean Boncouver, Frederique Alban, Olivier Thebaud ; Socio-economy, assessing the impact of marine protected areas on society's well-being : an economic perspective / Frederique Alban, Jean Boncouver, Nicholas Roncin ; Indicators, constructing and validating indicators of the effectiveness of marine protected areas / Dominique Pelletier -- ; pt. IV Scale-up of marine protected area systems. Networks, the assessment of marine reserve networks : guidelines for ecological evaluation / Kirsten Grorud-Colvert, Joachim Claudet, Mark Carr, Jennifer Caselle, Jon Day, Alan Friedlander, Sarah E. Lester, Theirry Lison de Loma, Brian Tissot, Dan Malone -- Connectivity, spacing a network of marine protected areas based on connectivity data / Serge Planes -- Representativeness, effectiveness of the global network of marine protected areas / Camilo Mora -- Missing dimension, conserving the largest habitat on earth : protected areas in the pelagic ocean / Alistair Hobday, Edward T. Game, Hedley S. Grantham, Anthony J. Richardson.

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#### Sommario/riassunto

Human-induced environmental disturbance - through fishery activities, coastal development, tourism and pollution - is a major challenge to the restoration and conservation of marine biodiversity. Synthesizing the latest research into marine biodiversity conservation and fisheries management, this book provides regional and global perspectives on the role of Marine Protected Areas (MPAs) in confronting this challenge. The approach is multidisciplinary, covering all the fields involved in designating and assessing MPAs: ecology, fisheries science, statistics, economics, sociology and genetics. The book is structured around key topics, including threats to marine ecosystems and resources, the effects and effectiveness of MPAs and the scaling-up of MPA systems. Both theoretical and empirical approaches are considered. Recognizing the diversity of MPA sciences, the book also includes one part designed specifically as a practical guide to implementing scientific assessment studies of MPAs and monitoring programs.

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