

Marine Protected Areas

Science, Policy and Management

Edited by :

John Humphreys, Portsmouth Institute of Marine Sciences, UK

Robert W E Clark, Southern Inshore Fisheries and Conservation Authority, UK

ISBN: 978-0-08-102698-4

PUB DATE: Oct 18, 2019

LIST PRICE: £138.00 / \$180.00 / €160.00

DISCOUNT: Reference

FORMAT: Paperback

TRIM: 7.5w x 9.25h

PAGES: c. 792

AUDIENCE: Marine oceanographers, marine conservationists, Marine biologists, marine management practitioners, Aquatic Ecologists

BIC CODES: RBG, RBKC

THEMA CLASSIFICATION:

THEMARBG; THEMARBK

A wide range of global perspectives on Marine Protected Area challenges and solutions.

KEY FEATURES

- Elucidates the full spectrum of Marine Protected Area (MPA) issues, from international policy to local regulation, management and enforcement.
- Provides insights from a diverse international group of specialist contributors with a range of perspectives and critiques.
- Demonstrates how MPA practitioners worldwide are resolving common challenges and formulating best practice.

DESCRIPTION

In the face of unprecedented pressure on marine ecosystems, *Marine Protected Areas* are seen as a cornerstone strategy for conservation. But while few argue in principle against their legitimacy, they remain contentious in policy terms and are challenging to manage. In addition to capturing a range of successes and solutions from across the world, this book lays bare ubiquitous difficulties of implementation and provides critical analyses ranging from the mis-application of science to international policy deficits and the causes of local challenges.

The book includes contributions from many different perspectives, including: MPA managers; commercial fishers; government officers; NGO specialists; marine scientists and lawyers, each constructively elucidating the issues and collectively creating a wide-ranging consideration of the nature of effective MPA science, policy and management.

Chapters address:

- A geographical range from northern European estuaries to the Southern Ocean; from southern Africa and Brazil to South East Asia; and from the Mediterranean and Caribbean Seas to the remote archipelagos of Pitcairn and Galapagos
- A critical history of Marine Protected Areas
- Aspects of the use and misuse of science
- MPA boundaries; windfarms in MPAs; coastal MPA eutrophication.
- MPA planning, goals and design
- Regulation, compliance and enforcement
- Fisheries and coastal community perspectives and critiques

The comprehensive nature of this book makes it essential for all those who are interested in, or involved with, the policy, designation, implementation, management or science of MPAs.

Ocean Science

Order online at <https://www.elsevier.com/>

Use promo code **LIFE319** for a special discount and free shipping!*



*Prices are subject to change without notice. All Rights Reserved.

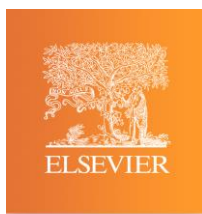


Table of Contents

Foreword: Progress towards the conservation and sustainable use of the oceans: targets and challenges

Preface

Acknowledgements

PART ONE: POLICY

1. A critical history of marine protected areas
2. Marine protected areas and marine spatial planning - allocation of resource use and environmental protection
3. Challenges facing marine protected areas in Southern African countries in light of the expanding ocean economies in the sub-region
4. The South Orkney Islands Southern Shelf Marine Protected Area: towards the establishment of marine spatial protection within the international waters in the Southern Ocean
5. Uneasy Bedfellows: Fisheries and the search for space for Marine Conservation Zones in English Waters
6. The role of coastal communities in the sustainable management of marine protected areas
7. The use of natural capital in the choice, management and evaluation of MPAs
8. Some consequences of policy instabilities for marine protected area management
9. Managing marine protected areas in Europe: moving from 'feature-based' to 'whole-site; management of sites
10. The role of UK Marine Protected Area management in contributing to sustainable development in the marine environment
11. The law and marine protected areas: different regimes and their practical impacts in England
12. Marine protected areas in the UK - conservation or recovery?
13. South Africa's Tsitsikamma Marine Protected Area - winners and losers

PART TWO: MANAGEMENT

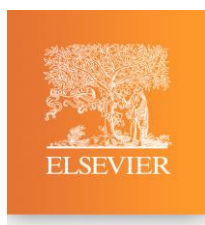
14. Developing a fisheries management plan for the Pitcairn Islands Marine Protected Area
15. Countering the threat of invasive species to the Galapagos marine reserve
16. Balancing rural development and robust nature conservation - lessons learnt from Kosterhavet Marine National Park, Sweden
17. The Torre Guaceto marine protected area e what can we learn from this success story?
18. The challenges of establishing marine protected areas in South East Asia
19. Have you seen the dolphins? Dolphin watching participatory monitoring in a Brazilian multiple-use Marine Protected Area
20. A new approach to monitoring Marine Protected Area Management Success in the Dutch Caribbean
21. Crossing jurisdictions: the implementation of offshore marine protected areas in an international fishery
22. A net positive effect? Assessing the impact on fishing opportunities within multiple-use MPAs. A case study from Scotland
23. Managing a dredge fishery within a marine protected area: resolving environmental and socio-economic objectives
24. Marine protected areas - the importance of positive partnerships and stakeholder engagement for delivering environmental outcomes in an estuary
25. Enforcement capabilities and compliance in English Marine Protected Areas: the art of the possible

PART THREE: SCIENCE

26. Using science effectively: selection, design and management of marine protected areas
27. How new science should affect the application of protection measures for UK estuarine shorebirds
28. Verifying predictions of statistical models to define the size and shape of marine Special Protection Areas for foraging seabirds (terns)
29. Developments in understanding of red-throated diver responses to offshore wind farms in marine Special Protection Areas
30. Sediment transport and Marine Protected Areas
31. On sediment dispersal in the Whitsand Bay Marine Conservation Zone: neighbour to a closed dredge-spoil disposal site
32. Maintaining ecological resilience on a regional scale: coastal saline lagoons in a northern European marine protected area
33. The adaptive capacity of the willow (*Salix alba* L.) to bridge the gap between MPAs and harbour entrances
34. Palaeoenvironmental determination of biogeochemistry and ecological response in an estuarine marine protected area
35. Consequences of nitrate enrichment in a temperate estuarine marine protected area; response of the microbial primary producers and consequences for management
36. Macroalgal mats in a eutrophic estuarine marine protected area: implications for benthic invertebrates and wading birds
37. Assessing the benefits of shellfish aquaculture in improving water quality in Poole Harbour, an estuarine Marine Protected Area
38. Nitrogen pollution in coastal Marine Protected Areas: a river catchment partnership to plan and deliver targets in a UK estuarine Special Protection Area

PART FOUR: CONCLUDING REMARKS

39. Marine Protected Areas: Quo Vadis?



Ocean Science

Order online at <https://www.elsevier.com/>

Use promo code **LIFE319** for a special discount and free shipping!*