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Research Letter

Federal protected areas management strategies in Brazil: sustainable financing, staffing, and local development

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ABSTRACT

The leading response for the environmental challenge has been the creation of protected areas, yet they constantly are jeopardized by problems of staffing, sustainable finance and local development. The documentation of alternative strategies that could enhance the success of its management is still at a nascent stage. To evaluate such strategies we built an on-line questionnaire to be answered by all Federal protected areas in Brazil. Just 12.8% confirmed and explained the strategies sought. Partnerships seemed to underpin most strategies cited. We tend to believe that the low percentage of managers seeking alternative strategies is a result of the increasing lack of a strong, coherent and comprehensive policy for protected areas in Brazil, which will just change if a new breakthrough on conservation policy is made.

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Introduction

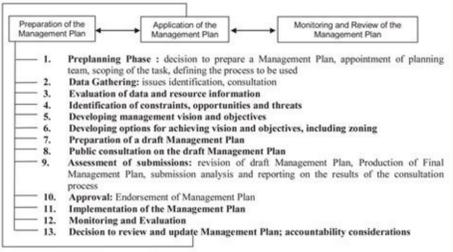
Natural resources are under pressure worldwide; loss of biodiversity stands out (Pimm et al., 2014). The leading response for such challenge has been the creation of protected areas (PA). Today 15.4% of terrestrial and inland water areas and 3.4% of oceans are protected, covering a total of 20.6 million km² (Juffe-Bignoli et al., 2014). Brazil has the largest PA system in the world; currently, there are 1930 locally known as Conservation Units in Brazil that cover 1,513,366 km², which represents

17.20% of terrestrial and inland water areas and 1.5% oceanic areas (Ministério do Meio Ambiente, 2015), and 585 Indigenous Lands that cover 1,131,211 km² which represents 13.2% of the Brazilian Territory (FUNAI, 2015).

However, if on one hand PAs are a well-established tool of biodiversity conservation, on the other hand, they are under great doubts about whether they meet their targets or not. There are several concerns, such as negative changes in conservation status through downsizing, downgrading and degazettement in the recent years (Bernard et al., 2014), reduc-

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KEY FEATURES

- Elaborates 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 seem as a conservative strategy for conservation. But while few agree in principle against their legitimacy, they remain contentious in policy terms and are challenging to manage. In addition to exploring a range of successes and solutions from across the world, this book has been 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 systems, 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, windfalls in MPAs, coastal MPA establishment,
- 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.

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