



## Full Length Article

## Accounting for protected areas: Approaches and applications

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## ARTICLE INFO

## Keywords:

System of environmental-economic accounting

SEEA EA

Protected areas

Biodiversity

Ecosystem services

Sustainable development

## ABSTRACT

The System of Environmental-Economic Accounts Ecosystem Accounting (SEEA EA) provides a statistical framework for measuring ecosystems and the services they supply, complementing the System of National Accounts (SNA). Although accounting for protected areas (PAs) is proposed in the SEEA EA and would provide consistent and useful information on PAs, it has not yet been widely implemented. This article examines different possibilities of applying the SEEA EA to PAs by reviewing existing work in that field, including case studies for South Africa, Uganda and Andalusia. We show that accounting for PAs using the SEEA EA would benefit PA planning, management and investment decisions, by (i) bringing statistical rigour and consistent data over time and space, (ii) compiling disparate data together and making them coherent, and (iii) revealing the relationships between PAs, the economy and social well-being, enabling their integration into development planning and decision making. This information can help inform better decision making by allowing synergies and trade-offs between environmental, economic and social outcomes linked to PAs and their management to be explored, fostering a more integrated development approach. This will be essential if the flagship target of the Kunming-Montreal Global Biodiversity Framework to conserve 30% of the world's surface by 2030 is to be achieved in an ecologically meaningful, economically sustainable and socially inclusive manner.

## 1. Introduction

The System of Environmental-Economic Accounting Ecosystem Accounting (SEEA EA) framework was adopted as a set of international statistical standards and recommendations in 2021 (United Nations et al., 2021). The SEEA EA provides accounting principles, classifications and measurement boundaries for organising data on ecosystems and related themes, including protected areas (PAs). This can provide a flow of regular and consistent information on the state, trends and even benefits from PAs (e.g., ecosystem services, climate change mitigation, contributions to economic activity and human well-being). As the SEEA EA is consistent with the accounting rules and exchange value principles of the System of National Accounts (SNA), it can also facilitate mainstreaming PAs into economic planning and monitoring processes. Furthermore, the systematic use of the SEEA EA would help build consistency across countries. This may be particularly useful in the context

of transboundary PA management and for building a better understanding of progress towards global objectives for nature protection. Accounting for PAs is mentioned as an option in the SEEA EA but has been little explored in practice to date.

PAs, as geographically defined areas “designated or regulated and managed to achieve specific conservation objectives” (Article 2 of the CBD), have long been a key management tool to conserve species and ecosystems, without which the loss of biodiversity would be even greater (e.g., Gray et al., 2016). Aichi Target 11 of the Strategic Plan for Biodiversity 2010–2020 of the UN Convention on Biological Diversity (CBD) set out to protect 17% of the land and 10% of the ocean by 2020 and drew attention to the importance of PA networks being ecologically representative, well connected and equitably managed.

Building on Aichi Target 11, the recently adopted Target 3 of the Kunming-Montreal Global Biodiversity Framework (GBF) calls for an expansion of protected areas and conservation areas to 30% of the

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**Ram Bir Singh Kushwah**



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