



Full Length Article

Accounting for protected areas: Approaches and applications

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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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The Economics of Ecosystems and Biodiversity: Ecological and Economic Foundations Pushpam Kumar, 2012-12-20

Human well being relies critically on ecosystem services provided by nature Examples include water and air quality regulation nutrient cycling and decomposition plant pollination and flood control all of which are dependent on biodiversity They are predominantly public goods with limited or no markets and do not command any price in the conventional economic system so their loss is often not detected and continues unaddressed and unabated This in turn not only impacts human well being but also seriously undermines the sustainability of the economic system It is against this background that TEEB The Economics of Ecosystems and Biodiversity project was set up in 2007 and led by the United Nations Environment Programme to provide a comprehensive global assessment of economic aspects of these issues This book written by a team of international experts represents the scientific state of the art providing a comprehensive assessment of the fundamental ecological and economic principles of measuring and valuing ecosystem services and biodiversity and showing how these can be mainstreamed into public policies This volume and subsequent TEEB outputs will provide the authoritative knowledge and guidance to drive forward the biodiversity conservation agenda for the next decade [Economics of Protected Areas and Its Effect on Biodiversity](#) Ram Bir Singh Kushwah, 2001 With reference to India

Handbook Of Tourism Economics:

Analysis, New Applications And Case Studies Clement A Tisdell, 2013-03-08 Handbook of Tourism Economics Analysis New Applications and Case Studies provides an up to date concise and readable coverage of the most important topics in tourism economics It pays attention to relevant traditional topics in tourism economics as well as exciting emerging topics in this field topics which are expected to be of continuing importance In doing this it takes account of advances in economic thought analysis and applied methods Contributions provide applications of economic analysis to tourism policy and constructive assessment of contemporary thought about tourism economics The handbook includes several in depth case studies such as the contribution of tourism to economic development in selected countries including China India Japan and Australia Portugal and Fiji Coming from diverse countries both industrialised and developing and established in the field of tourism economics travel and management many of the contributors have been consultants to governments private organisations and international bodies including the UN World Tourism Organisation the OECD and UNEP Experts contributing to this volume include the President of the International Association of Tourism Economics as well as its Secretary General the Secretary General of the Tourism Research Centre Association of Tourism Research Institutes the Founder Fellow of the International Academy for the Study of Tourism and the former Director of the UK's Centre for Social and Economic Research on the Global Environment CSERGE **Economic Growth and Environmental Regulation** Tim Swanson, Tun Lin, 2009-12-04 This volume assembles a group of eminent scholars to look at the problem of growth and environment from the perspective of environmental regulation The questions addressed are How does economic growth

interact with regulation and what are the best approaches to regulation in use today The context for the volume is the current situation in China where twenty years of rapid growth have created a situation in which there are both demands for environmental regulation and needs for choosing a future development path The advent of A Macro Environmental Strategy for China presents an opportunity to ask how and why China should introduce regulation into its management of its development The volume includes contributions from leading Chinese experts and established environmental economists from other countries including Timo Goeschl Ben Groom and Andreas Kontoleon The volume looks at both the demand side of environmental regulation and the supply side The demand side of regulatory intervention examines how regulation operates to supplement existing resource allocation mechanisms via effective demand aggregation and implementation mechanisms The supply side of regulation examines how regulation operates to guide industrial growth down particular pathways in the pursuit of managed development Both sides of environmental regulation involve the important issue of implementation and enforcement This volume will be of most value to academics and scholars of environmental economics growth economics the Chinese economy and policy makers of environmental regulations

Social and Economic Benefits of Protected Areas

Marianne Kettunen, Patrick ten Brink, 2013-09-05 Protected areas PAs contain biodiversity and ecosystems of high conservation value In addition these areas provide a range of benefits both direct and indirect to our societies and economies i e so called ecosystem services These services include for example an ecosystem s ability to regulate floods and climate purify water secure the pollination of crops and create opportunities for recreation culture and tourism This book offers a comprehensive introduction to the socio economic benefits of PAs and PA networks and provides step by step practical guidance on identifying assessing and valuing the various ecosystem services and related benefits provided by PAs It also aims to improve the communication of PA benefits to different stakeholders and the general public It is shown that identifying and valuing the socio economic benefits of PAs can be beneficial for several reasons Demonstrating socio economic importance of a protected site can significantly increase political and stakeholder support for the site and resolve conflicts between different interest groups This can lead to positive changes in policies and decision making Insights on PA benefits are also needed to identify a combination of actions and land use practices that best support the sustainable and equitable utilisation of these benefits while retaining a site s conservation goals Finally demonstrating different benefits can help to discover alternative and sustainable sources for financing the management of PAs

A Review of Marine Zones in the Monterey Bay National Marine Sanctuary Jennifer A. Brown, 2001

Sustainable Development and Planning VII Ö. Özçevik, C.A. Brebbia, S.M. Şener, 2015-05-19 This book contains the proceedings of the seventh in a series of biennial conferences on the topic of sustainable regional development that began in 2003 Organised by the Wessex Institute the conference series provides a common forum for all scientists specialising in the range of subjects included within sustainable development and planning In order to ensure that planning and development can meet our present needs without

compromising future generations planners environmentalists architects engineers policy makers and economists must work together The use of modern technologies in planning gives us new potential to monitor and prevent environmental degradation In recent years in many countries an increase in spatial problems has led to planning crises Planning problems are often associated with uneven development deterioration of the quality of urban life and destruction of the environment The increasing urbanisation of the world coupled with the global issues of environmental pollution resource shortage and economic restructuring demand that we ensure a decent quality of life for our cities Other environments such as rural areas forests coastal regions and mountains face their own problems that urgently require solutions in order to avoid irreversible damage Effective strategies for management should consider planning and regional development two closely related disciplines and emphasise the demand to handle these matters in an integrated way The papers in the book cover such topics as Regional Planning City Planning Sustainability and the Built Environment Cultural Heritage Environmental Management Environmental Policies and Planning Sustainable Tourism Resources Management Social and Political Issues Rural Developments Sustainable Solutions in Emerging Countries Transportation Energy Resources Environmental Economics Sustainable Assessment Sustainable Development Indicators Sustainability Modelling Governance Resilience Community Planning Planning for Equality Quality of Life

Communicating Protected Areas Denise Hamú, Elisabeth Auchincloss, Wendy Goldstein, 2004 Protected areas operate within complex ecological and social systems presenting challenges that cannot be resolved by technical solution alone Achieving the management objectives of protected areas requires a social approach in which strategic communication is a key instrument This publication explores the often underestimated potential of communication sharing valuable experiences from protected areas across the world drawing on papers presented at the Vth IUCN World Parks Congress 2003 and others

Biological Diversity Louise E. Buck, Charles C. Geisler, John Schelhas, Eva Wollenberg, 2001-06-21 We live in a world of wide pendulum swings regarding management policies for protected areas particularly as they affect the involvement of local people in management Such swings can be polarizing and halt on the ground progress There is a need to find ways to protect biodiversity while creating common ground and building management capacity thr

Annotated Bibliography on Socio-economic and Ecological Impacts of Marine Protected Areas in Pacific Island Countries, 2008 The bibliography is to highlight impacts on fisheries and livelihoods attributed to coral reef marine protected areas in Pacific Island countries and territories Included in this collection is literature that reports various forms of reef area management practiced in Pacific Island countries reserves sanctuaries permanent or temporary closed areas community and traditional managed areas

Marine Protected Areas Economics, Management and Effective Policy Mixes OECD, 2017-06-05 Intense exploitation of our oceans and seas is degrading marine biodiversity and ecosystems at an alarming rate This report presents good practice insights for effectively managing marine protected areas MPAs one of the policy instruments available for the conservation and sustainable

Management of Marine Protected Areas Paul D. Goriup, 2017-04-17 With the health of the world's oceans threatened as never before it is becoming increasingly apparent that Marine Protected Areas (MPAs) play a vitally important role in protecting marine and coastal habitats. *Management of Marine Protected Areas: A Network Perspective* draws on the results of a major EU sponsored research project related to the establishment of networks of MPAs in the Mediterranean and Black Seas that transpired from February 2011 to January 2016. Featuring contributions by leading university and national research institute based scientists, chapters utilize the latest research data and developments in marine conservation policy to explore issues related to ways in which networks of MPAs may amplify the effectiveness and conservation benefits of individual areas within them. Topics addressed include the broader socio-economic impacts of MPAs in the Mediterranean and Black Seas, the use of Marine Spatial Planning (MSP) to resolve conflicts between marine resource use and protection, special protection measures under the EU's Marine Strategy Framework Directive (MSFD), ecological value assessments in the Black Sea, the Ecosystem Approach (EA) for managing marine ecosystems, MPAs along Turkey's Black Sea coast, MPAs and offshore wind farms, and managing and monitoring MPA networks within and between the Black and Mediterranean Seas. Timely and important, *Management of Marine Protected Areas: A Network Perspective* offers invaluable insights into the role of MPAs in preserving the welfare and long-term viability of our world's oceans.

Landscape Conservation IUCN World Commission on Protected Areas. Special Meeting, 2001

Environmental Economics Research and China's Green Development Strategy Youguo Zhang (Economist), 2019

Integrated Protected Area Management Mike Walkey, Ian R. Swingland, Shaun Russell, 1999-05-31 Protected areas have become an increasingly important tool both in the conservation of biodiversity and in revenue generation through sustainable use. This is the only sure way to guarantee the protection necessary for many species, habitats and ecosystems in the future. *Integrated Protected Area Management* features contributions that consider the design, management and sustainable use of these regions. Three principal aspects are considered: the theory and practice of designation, community based conservation and the concept of sustainability, identifying priorities for management. The emphasis throughout is on the importance of an interdisciplinary approach to planning and the active involvement of all stakeholders in decision making processes as a means of ensuring long-term sustainability.

International Concepts in Protected Landscapes, 2001

Protected Areas, Sustainable Tourism and Neo-liberal Governance Policies Hubert Job, Susanne Becken, Bernard Lane, 2020-04-28 From its late nineteenth century origins, the concept of protected areas has increased in scope and complexity. It now has to come to terms with the twenty-first century world of neo-liberal politics, performance metrics and the growing and complex demands of tourism. This international collection of papers explores how this might be done, detailing the issues involved and the value and values that protected areas have for economies, peoples and environments. Special attention is given to World Heritage Sites, tourism planning and their communities, to the growth of private protected areas and to the health values of protected areas. Other subjects include private sector business.

involvement in protected areas concessions policy experiments and how the work of the world's largest protected area agency the US National Park Service is adapting to changing political and market demands and to the challenges of sustainable development It concludes with a searching interview with a member of UNESCO's World Heritage Committee The chapters were originally published in a special issue in the Journal of Sustainable Tourism

Ecological Economics Gareth Edwards-Jones, Ben Davies, Salman S. Hussain, 2009-04-01 Ecological economics is an exciting interdisciplinary field of study that combines insights from the natural sciences economics philosophy and other fields to develop innovative approaches to environmental problems It draws on a wide range of analytical perspectives some radical others more conventional to build a more complete understanding of human ecosystem interactions Current research in the field includes work on nature conservation land use planning pollution control natural resource management and environmental impact assessment evaluation Ecological Economics provides a comprehensive introduction to the core themes presented in a clearly structured style with chapters tailored specifically to readers without any economic or philosophical training There is an emphasis throughout on the complementary roles of economics ethics and ecology in environmental decision making processes The book reviews the evolution of important ideas in the field explores the fundamental philosophies underlying different approaches to environmental problems explains in detail the specific tools and techniques used in these approaches and gives numerous examples of how they can be applied Special importance is attached to understanding both the advantages and limitations of different analyses in order to provide a balanced and coherent view of how these different approaches interrelate and how their roles vary in different contexts Written by three authors specializing in ecology economics and philosophy this textbook provides an excellent introduction to the field of ecological economics for students in the natural sciences and other environmental disciplines It will also be of interest to a wide range of professionals and researchers involved in environmental management and policy and others including economists seeking to broaden their knowledge of new methodologies and approaches Further reading suggestions and extensive references are provided for those interested in pursuing particular themes beyond the introductory level The first introductory ecological economics text written specifically for natural scientists Assumes no prior knowledge of economics or philosophy Emphasises the complementary roles of ecology economics and ethics in environmental decision making processes An emphasis on clarity and accessibility throughout

Economics of Protected Areas John A. Dixon, Paul B. Sherman, 1990 Economics of Protected Areas is a groundbreaking effort to help governments examine the costs and benefits of maintaining protected areas The authors provide a methodology for assigning monetary values to nature and explain the economic techniques involved They also show how officials have applied these principles worldwide

Parks, 1982

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Economics Of Protected Areas Approaches And Applications New**

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