

# ECOSYSTEMS AND HUMAN WELL-BEING

VOLUME 4

## MULTISCALE ASSESSMENTS



Findings of the Sub-global Assessments Working Group

MILLENNIUM ECOSYSTEM ASSESSMENT

# Ecosystems And Human Wellbeing Multiscale Assessments

**Fikret Berkes**



## **Ecosystems And Human Wellbeing Multiscale Assessments:**

**Ecosystems and Human Well-Being** Millennium Ecosystem Assessment (Program). Sub-global Assessments Working Group, 2005-12-14 One of the major innovations of the Millennium Ecosystem Assessment is the incorporation of local and regional assessments 33 in all in a global portrait of the planet's health It is the first global assessment of ecosystems to include not only a diversity of ecosystems but to draw on a wide range of cultural orientations and intellectual traditions including those of indigenous peoples The Sub global Assessments Working Group integrated information from multiple sources and found that biophysical factors such as land use change climate change and variability pollution and invasive species have a significant effect on human well being across cultures For example in places where there are no other social safety nets diminished human well being tends to increase immediate dependence on ecosystem services which can damage the capacity of those local ecosystems which in turn appears to increase the probability of natural disaster or conflict Representing the baseline and framework for ongoing assessments of ecosystem and human well being on a variety of scales around the world Multiscale Assessments provides students researchers and policy makers with the most comprehensive methodology for assessing ecosystems at local national and regional scales *Ecosystems and Human Well-being*, 2005 Of the MA conceptual framework Overview of the MA sub global assessments Linking ecosystem services and human well being in the sub global assessments The multiscale approach Using multiple knowledge systems in sub global assessments benefits and challenges Assessment process Drivers of ecosystem change Condition and trends of ecosystem services and biodiversity Responses to ecosystem changes and their impacts on human well being lessons from sub global assessments Sub global scenarios Communities ecosystems and livelihoods Reflections and lessons learned **Ecosystems and Human Well-Being** Neville Ash, 2010-04-05 The Millennium Ecosystem Assessment MA is the most extensive study ever of the linkages between the world's ecosystems and human well being It is one of the most important conservation initiatives ever undertaken and the ecosystem services paradigm on which it is based provides the standard for practice This manual supplies the specific tools that practitioners of the paradigm need in order to extend their work into the future The manual is a stand alone how to guide to conducting assessments of the impacts on humans of ecosystem changes It builds on the experiences and lessons learned from the MA global and sub global assessment initiatives with chapters written by well known participants in those initiatives It also includes insights gained from service focused assessment activities since the completion of the MA in 2005 *Ecosystems and Human Well-being* Carlos Corvalán, Simon Hales, Anthony J. McMichael, Millennium Ecosystem Assessment (Program), World Health Organization, 2005 Approximately 60% of the benefits that the global ecosystem provides to support life on Earth such as fresh water clean air and a relatively stable climate are being degraded or used unsustainably In the report scientists warn that harmful consequences of this degradation to human health are already being felt and could grow significantly worse over the next 50 years *Ecosystems and Human*

*Well-being* Mohamed Tawfic Ahmed, 2010 Produced by Division of Early Warning and Assessment United Nations Environment Programme T p verso *Ecosystems and Human Well-Being* Millennium Ecosystem Assessment, 2005-06 Ecosystems and Human Well being Scenarios Only by understanding the environment and how it works can we make the necessary decisions to protect it Only by valuing all our precious natural and human resources can we hope to build a sustainable future The Millennium Ecosystem Assessment is an unprecedented contribution to our global mission for development sustainability and peace Kofi Annan Secretary General of the United Nations Launched in June 2001 and involving more than 1 300 leading scientists from 95 nations the Millennium Ecosystem Assessment MA is a ground breaking study on how humans have altered ecosystems and how changes in ecosystem services affect human well being both now and in the future Integrating findings at the local regional global scales and from alternative intellectual traditions the Millennium Ecosystem Assessment offers the first truly comprehensive picture of the health of the planet This five volume set comprising four technical volumes and one summary volume provides an indispensable baseline of information for researchers scholars and students as well as inform public decision making for decades to come Books in the Five Volume Set Include Ecosystems and Human Well being Current State and Trends Volume 1 Ecosystems and Human Well being Scenarios Volume 2 Ecosystems and Human Well being Policy Responses Volume 3 Ecosystems and Human Well being Multiscale Assessments Volume 4 Ecosystems and Human Well being Our Human Planet Summary for Decision Makers Volume 5 The Millennium Ecosystem Assessment s work is overseen by a 45 member Board of Directors co chaired by Robert Watson Chief Scientist and Senior Advisor for the Environment of the Environmentally and Socially Sustainable Development Network of the World Bank and A H Zakri director of the United Nations University s Institute of Advanced Studies The Assessment Panel which oversees the technical work of the MA includes 13 of the world s leading social and natural scientists It is co chaired by Angela Cropper of the Cropper Foundation and Harold Mooney of Stanford University Walter Reid is the director of the Millennium Ecosystem Assessment Other Books from the Millennium Ecosystem Assessment Ecosystems and Human Well being Synthesis Report Ecosystems and Human Well being A Framework for Assessment

*Ecosystems and Human Well-being* Millennium Ecosystem Assessment, 2005 Millennium Ecosystem Assessment poverty **Bridging Scales and Knowledge Systems** Walter World Resources Institute, Walter Millennium Ecosystem Assessment, 2013-04-09 Bridging the gap between local knowledge and western science is essential to understanding the world s ecosystems and the ways in which humans interact with and shape those ecosystems This book brings together a group of world class scientists in an unprecedented effort to build a formal framework for linking local and indigenous knowledge with the global scientific enterprise Contributors explore the challenges costs and benefits of bridging scales and knowledge systems in assessment processes and in resource management Case studies look at a variety of efforts to bridge scales providing important lessons concerning what has worked what has not and the costs and benefits associated with

those efforts Drawing on the groundbreaking work of the Millennium Ecosystem Assessment Bridging Scales and Knowledge Systems will be indispensable for future efforts to conduct ecosystem assessments around the world

**Ecosystems and Human Well-Being** Millennium Ecosystem Assessment,2005-12-14 One of the major innovations of the Millennium Ecosystem Assessment is the incorporation of local and regional assessments 33 in all in a global portrait of the planet's health It is the first global assessment of ecosystems to include not only a diversity of ecosystems but to draw on a wide range of cultural orientations and intellectual traditions including those of indigenous peoples The Sub global Assessments Working Group integrated information from multiple sources and found that biophysical factors such as land use change climate change and variability pollution and invasive species have a significant effect on human well being across cultures For example in places where there are no other social safety nets diminished human well being tends to increase immediate dependence on ecosystem services which can damage the capacity of those local ecosystems which in turn appears to increase the probability of natural disaster or conflict Representing the baseline and framework for ongoing assessments of ecosystem and human well being on a variety of scales around the world Multiscale Assessments provides students researchers and policy makers with the most comprehensive methodology for assessing ecosystems at local national and regional scales

**UNEP 2006 Annual Report** United Nations Environment Programme,2007-05-18 This is a summary of UNEP's activities in 2006 The main purpose of UNEP is to encourage international co operation in preserving and protecting the environment This objective is developed alongside other United Nations departments and international governments by addressing issues such as climate change and sustainable development challenges Environmental issues also tie into poverty reduction and the general development strategies as set out in the Millennium Development Goals The theme of this particular annual report is change climate change energy change ecosystem change and how such change with impact on future generations

**Taking Stock of Nature** Anna Lawrence,2010-02-18 In a world of increasing demands for biodiversity information participatory biodiversity assessment and monitoring is becoming more significant Whilst other books have focused on methods or links to conservation or development this book is written particularly for policy makers and planners Introductory chapters analyze the challenges of the approach the global legislation context and the significance of the Millennium Ecosystem Assessment Specially commissioned case studies provide evidence from 17 countries by 50 authors with expertise in both biological and social sciences Ranging from community conservation projects in developing countries to amateur birdwatching in the UK they describe the context objectives stakeholders and processes and reflect on the success of outcomes Rather than advocating any particular approach the book takes a constructively critical look at the motives experiences and outcomes of such approaches with cross cutting lessons to inform planning and interpretation of future participatory projects and their contribution to policy objectives

**Restoring Natural Capital** James Aronson,Suzanne J. Milton,James N. Blignaut,2012-09-26 How can environmental degradation be stopped How can it be

reversed And how can the damage already done be repaired The authors of this volume argue that a two pronged approach is needed reducing demand for ecosystem goods and services and better management of them coupled with an increase in supply through environmental restoration Restoring Natural Capital brings together economists and ecologists theoreticians practitioners policy makers and scientists from the developed and developing worlds to consider the costs and benefits of repairing ecosystem goods and services in natural and socioecological systems It examines the business and practice of restoring natural capital and seeks to establish common ground between economists and ecologists with respect to the restoration of degraded ecosystems and landscapes and the still broader task of restoring natural capital The book focuses on developing strategies that can achieve the best outcomes in the shortest amount of time as it considers conceptual and theoretical issues from both an economic and ecological perspective examines specific strategies to foster the restoration of natural capital and offers a synthesis and a vision of the way forward Nineteen case studies from around the world illustrate challenges and achievements in setting targets refining approaches to finding and implementing restoration projects and using restoration of natural capital as an economic opportunity Throughout contributors make the case that the restoration of natural capital requires close collaboration among scientists from across disciplines as well as local people and when successfully executed represents a practical realistic and essential tool for achieving lasting sustainable development

**Discrete-Event Simulation and System Dynamics for Management Decision Making** Sally Brailsford, Leonid Churilov, Brian Dangerfield, 2014-03-31 In recent years there has been a growing debate particularly in the UK and Europe over the merits of using discrete event simulation DES and system dynamics SD there are now instances where both methodologies were employed on the same problem This book details each method comparing each in terms of both theory and their application to various problem situations It also provides a seamless treatment of various topics theory philosophy detailed mechanics practical implementation providing a systematic treatment of the methodologies of DES and SD which previously have been treated separately

*Coasts for People* Fikret Berkes, 2015-02-11 Issues of sustainability and increased competition over coastal resources are changing practices of resource management Societal concerns about environmental degradation and loss of coastal resources have steadily increased while other issues like food security biodiversity and climate change have emerged A full set of social ecological and economic objectives to address these issues are recognized but there is no agreement on how to implement them This interdisciplinary and big picture book through a series of vivid case studies from environments throughout the world suggests how to achieve these new resource management principles in practical accessible ways

**The Routledge Handbook of Indigenous Environmental Knowledge** Thomas F. Thornton, Shonil A. Bhagwat, 2020-11-29 This volume provides an overview of key themes in Indigenous Environmental Knowledge IEK and anchors them with brief but well grounded empirical case studies of relevance for each of these themes drawn from bioculturally diverse areas around the world It provides an incisive cutting edge

overview of the conceptual and philosophical issues while providing constructive examples of how IEK studies have been implemented to beneficial effect in ecological restoration stewardship and governance schemes Collectively the chapters in the Routledge Handbook of Indigenous Environmental Knowledge cover Indigenous Knowledge not only in a wide range of cultures and livelihood contexts but also in a wide range of environments including drylands savannah grassland tropical forests mountain landscapes temperate and boreal forests Pacific and Indian Ocean islands and coastal environments The chapters discuss the complexities and nuances of Indigenous cosmologies and ethno metaphysics and the treatment and incorporation of IEK in local national and international environmental policies Taken together the chapters in this volume make a strong case for the potential of Indigenous Knowledge in addressing today s local and global environmental challenges especially when approached from a perspective of appreciative inquiry using cross cultural methods and ethical collaborative approaches which limit bias and inappropriate extraction of IEK The book is a guide for graduate and advanced undergraduate teaching and a key reference for academics in development studies environmental studies geography anthropology and beyond as well as anyone with an interest in Indigenous Environmental Knowledge Chapters 10 and 23 of this book are freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

*Ecosystem Services* Mark Everard, 2021-12-30  
Revised and fully updated this textbook provides a detailed yet accessible introduction to the key aspects of ecosystem services *Ecosystem services* is one of the most powerful guiding principles for ecology biodiversity conservation and the management of natural resources It provides the basis of assessing the multiple values and services that ecosystems can provide to humankind including diverse issues such as carbon sequestration flood control crop pollination and aesthetic and cultural services The second edition of *Ecosystem Services Key Issues* has been fully revised and updated to address policy and scientific developments as well as new and emerging issues such as nature based solutions zoonotic diseases and environmental justice It includes new and updated case studies from across the world and each chapter contains further reading learning objectives and discussion questions to aid student learning The book details the historical roots of ecosystem services in the second half of the twentieth century through initiatives such as the Millennium Ecosystem Assessment The Common International Classification of Ecosystem Services CICES and the United Nations Sustainable Development Goals It shows how ecosystem goods and services can be categorised and valued in economic as well as non monetary terms while also highlighting some of the difficulties and limitations of valuation techniques The author describes how themes such as systems thinking social ecological resilience and natural capital relate to ecosystem services and how these can contribute to more sustainable and equitable development This book will be essential reading for students and scholars of ecosystem services ecology environmental science biodiversity conservation environmental economics natural resource management and sustainable development It will also be of use to professionals and policymakers who are looking

to integrate ecosystems and their services into their decision making processes *Integrating Climate Change Actions into Local Development* Livia Bizikova, John Robinson, Stewart Cohen, 2015-02-13 To date climate change adaptation and mitigation have been treated separately both in research and in the climate negotiations However a growing body of literature is now being developed that points to actual and potential synergies and trade offs between responses to climate change and sustainability This literature has evolved in a spontaneous way with diverse approaches and no common methodology to help practitioners explicitly plan for these synergies This special issue of the Climate Policy journal addresses this gap between scientific knowledge and practitioners needs by focussing on linkages between climate change and sustainable development at the level of conceptual framework and methods In particular the papers address in an integrated way local development options involving both adaptation and mitigation in order to promote resilience to climate change in human and natural systems The special issue provides policy and methodological guidelines for linking local development pathways with responses to climate change based on collaboration between local practitioners the public and scientists

**Sacred Ecology** Fikret Berkes, 2017-09-01 Sacred Ecology examines bodies of knowledge held by indigenous and other rural peoples around the world and asks how we can learn from this knowledge and ways of knowing Berkes explores the importance of local and indigenous knowledge as a complement to scientific ecology and its cultural and political significance for indigenous groups themselves With updates of relevant links for further learning and over 180 new references the fourth edition gives increased voice to indigenous authors and reflects the remarkable increase in published local observations of climate change

**Global Environment Outlook 4** United Nations Environment Programme, 2007 The fourth report in the Global Environment Outlook series provides a comprehensive scientifically credible policy relevant and up to date assessment of and outlook for the state of the global environment Environment for development is the GEO 4 underlying theme and the report pays special attention to the role and impact of the environment on human well being as well as to the use of environmental valuation as a tool for decision making GEO 4 s 2007 publication date marks the half way point for the Millennium Development Goals The environment as well as being the subject of MDG 7 is also a thread that runs through all the goals Includes Errata

Climate Variability and Change in Africa Jonathan I. Matondo, Berhanu F. Alemaw, Wennegouda Jean Pierre Sandwidi, 2020-01-01 This book presents a comprehensive overview of climate variability and change in Africa and includes impact assessments and case studies from integration frameworks with a particular focus on climate agriculture and water resources Richly illustrated the book highlights case studies from western eastern and southern African region and explores related development policies Climate change adaptation research prediction and reanalysis are also addressed



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