

# *Biodiversity Conservation Handbook*

***Functional ecology is the branch of ecology that focuses on various functions that species play in the community or ecosystem in which they occur. This accessible guide offers the main concepts and tools in trait-based ecology, and their tricks, covering different trophic levels and organism types. It is designed for students, researchers and practitioners who wish to get a handy synthesis of existing concepts, tools and trends in trait-based ecology, and wish to apply it to***

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***their own field of interest. Where relevant, exercises specifically designed to be run in R are included, along with accompanying on-line resources including solutions for exercises and R functions, and updates reflecting current developments in this fast-changing field. Based on more than a decade of teaching experience, the authors developed and improved the way theoretical aspects and analytical tools of trait-based ecology are introduced and explained to readers.***

***This Handbook presents state-of-the-art methodological guidance and discussion of international practice related to the integration of biodiversity and ecosystem services in impact***

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***assessment, featuring contributions from leading researchers and practitioners the world over. Its multidisciplinary approach covers contributions across five continents to broaden the scope of the field both thematically and geographically. This practical handbook describes sampling and laboratory assessment methods for the biodiversity of a number of key functional groups of soil organisms, including insects, earthworms, nematodes, fungi and bacteria. The methods have been assembled and the protocols drafted by a number of scientists associated with the UNEP-GEF funded Conservation and Sustainable Management of Below-Ground Biodiversity***

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***Project, executed by the Tropical Soil Biology and Fertility (TSBF) Institute of the International Center for Tropical Agriculture (CIAT). The methods provide a standardized basis for characterizing soil biodiversity and current land uses in terrestrial natural, semi-natural and agroecosystems in tropical forests and at forest margins. The aim is to assess soil biodiversity against current and historic land use practices both at plot and landscape scales and, further, to identify opportunities for improved sustainable land management through the introduction, management or remediation of soil biota, thus reducing the need for external inputs such as fertilizers and***

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***pesticides. The book also contains extensive advice on the handling of specimens and the allocation of organisms to strain or functional group type.***

***Published with TSBF-CIAT, CTA, UNEP and GEF***

***The idea that nature provides services to people is one of the most powerful concepts to have emerged over the last two decades. It is shaping our understanding of the role that biodiverse ecosystems play in the environment and their benefits for humankind. As a result, there is a growing interest in operational and methodological issues surrounding ecosystem services amongst environmental managers, and many institutions***

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***are now developing teaching programmes to equip the next generation with the skills needed to apply the concepts more effectively. This handbook provides a comprehensive reference text on ecosystem services, integrating natural and social science (including economics). Collectively the chapters, written by the world's leading authorities, demonstrate the importance of biodiversity for people, policy and practice. They also show how the value of ecosystems to society can be expressed in monetary and non-monetary terms, so that the environment can be better taken into account in decision making. The significance of the ecosystem service paradigm is***

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***that it helps us redefine and better communicate the relationships between people and nature. It is shown how these are essential to resolving challenges such as sustainable development and poverty reduction, and the creation of a green economy in developing and developed world contexts.***

***Routledge Handbook of  
Ecosystem Services***

***A Communications Handbook on  
the Ethical and Theological  
Reasons for Protecting  
Biodiversity***

***Handbook of Biodiversity  
Methods***

***Routledge Handbook of  
Biodiversity and the Law***

***The Routledge Handbook of  
Philosophy of Biodiversity***

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### **State, Local, and Private Protection of Biological Diversity**

*The conservation of biodiversity is now big business. Whether called conservation banking, species banking, habitat banking, biodiversity banking, biodiversity offsets, compensatory mitigation or ecological footprint offsetting, the idea of financially valuing biodiversity and using the market and businesses to promote conservation is growing rapidly. This handbook is a comprehensive guide to*



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*conservation banking, explaining what it is and how it works. Written by leading ecosystem market experts, the book provides practical guidance, tools, case studies, analysis and insights into conservation banking and other market-based approaches to conservation. Coverage includes the origins of conservation banking, the pros and cons for conservation, how conservation banking works in reality, the legal, practical and financial aspects of setting up and running a*

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*conservation bank and how 'biodiversity off-sets' can be internationalized. Published with Ecosystem Marketplace Ecological restoration is a rapidly evolving discipline that is engaged with developing both methodologies and strategies for repairing damaged and polluted ecosystems and environments. During the last decade the rapid pace of climate change coupled with continuing habitat destruction and the spread of non-native species to new habitats has forced*

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*restoration ecologists to re-evaluate their goals and the methods they use. This comprehensive handbook brings together an internationally respected group of established and rising experts in the field. The book begins with a description of current practices and the state of knowledge in particular areas of restoration, and then identifies new directions that will help the field achieve increasing levels of future success. Part I provides basic background about ecological and*

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*environmental restoration. Part II systematically reviews restoration in key ecosystem types located throughout the world. In Part III, management and policy issues are examined in detail, offering the first comprehensive treatment of policy relevance in the field, while Part IV looks to the future. Ultimately, good ecological restoration depends upon a combination of good science, policy, planning and outreach - all issues that are addressed in this unrivalled volume. This handbook on the ethical*

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*and theological underpinnings of biodiversity conservation is meant to be a tool to open a broader conversation on the ethical considerations related to protecting species, habitat, and ecosystems. Featuring essays from a distinguished group of ethicists, theologians, environmental advocates and communications experts, the purpose of this publication is to help biodiversity spokespersons understand the ethical and religious frameworks in which*

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*biodiversity issues are discussed so that they can communicate more effectively with the public. The University of Wisconsin Press no longer distributes this title. The book is still in print and copies may be ordered from: Biodiversity Project 214 N Henry St Ste 201 Madison, WI 53703 Tel: 608-250-9876 Fax: 608-257-3513 Email: [project@biodiverse.org](mailto:project@biodiverse.org) [www.biodiversityproject.org](http://www.biodiversityproject.org) This practical handbook describes the principles and techniques of managing and creating habitats worldwide*

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*including grasslands, forests, scrub, freshwater wetlands, coastal habitats, arable land, urban areas and gardens. Essential reading for conservation biologists and an invaluable resource for all those involved in conservation land management.*

*Sampling and  
Characterization of Below-  
ground Biodiversity  
Routledge Handbook of  
Ecological and  
Environmental Restoration  
Biodiversity*

*The Conservation Handbook  
An Activist Approach to*

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### *Biodiversity Planning Nature Conservation Handbook*

This Handbook, first published in 2005, provides standard procedures for planning and conducting a survey of any species or habitat and for evaluating the data.

Fish Conservation offers, for the first time in a single volume, a readable reference with a global approach to marine and freshwater fish diversity and fishery resource issues. Gene Helfman brings together available knowledge on the decline and restoration of freshwater and marine fishes, providing ecologically sound answers to biodiversity declines as well as to fishery management



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problems at the subsistence, recreational, and commercial levels. Written in an engaging and accessible style, the book: considers the value of preserving aquatic biodiversity offers an overview of imperiled fishes on a taxonomic and geographic basis presents a synthesis of common characteristics of imperiled fishes and their habitats details anthropogenic causes of decline examines human exploitation issues addresses ethical questions surrounding exploitation of fishes The final chapter integrates topics and evaluates prospects for arresting declines, emphasizing the application of evolutionary and ecological principles in light of projected trends. Throughout, Helfman provides examples,

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explores case studies, and synthesizes available information from a broad taxonomic, habitat, and geographic range. Fish Conservation summarizes the current state of knowledge about the degradation and restoration of diversity among fishes and the productivity of fishery resources, pointing out areas where progress has been made and where more needs to be done. Solutions focus on the application of ecological knowledge to solving practical problems, recognizing that effective biodiversity conservation depends on meeting human needs through management that focuses on long term sustainability and an ecosystem perspective. Conservation Biology, techniques, applications.

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This OECD Handbook shows how public policy in the form of market creation can be used to internalise the loss of biodiversity. It promotes the use of markets to ensure that our collective preferences for conservation and sustainable use are reflected in economic outcomes.

Learning Opportunities for Careers in Biodiversity Conservation : a Handbook on Learning

Opportunities that Support Careers in Biodiversity Conservation

A Guide to Setting Up and Running Biodiversity Credit Trading Systems

Handbook on the Economics of Ecosystem Services and Biodiversity

Integrated Virtual Tutor

Drafting a Conservation Blueprint

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The Routledge Handbook of Landscape Ecology

Forests have become the focus of intense conservation interest over the past two decades, reflecting widespread concern about high rates of deforestation and forest degradation, particularly in tropical countries. The aim of this book is to outline the main methods and techniques available to forest ecologists.

Based on interviews with over 190 people involved in the NBSAP in four Indian states, this review moves beyond general principles of participation, identifying precise approaches that work to include diverse local opinions - along with associated risks and pitfalls - emerging from on-the-ground experience. A range of successful tools are

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explained step-by-step to help practitioners adapt and design appropriate approaches for their own contexts internationally.--COVER.

"Handbook of Citizen Science in Ecology and Conservation is the first practical and comprehensive manual that provides step-by-step instructions for creating natural science research projects that involve collaboration between scientists and the general public. As citizen-science projects become increasingly common, there is a growing need for concrete best practices around planning and implementing successful projects that can allow project leaders to guide and gauge success of projects while ensuring the collection of high-quality data. Based on a variety of case studies from several citizen-science projects, this is the definitive reference

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guide for all potential citizen-science practitioners, ranging from professors and graduate students to staff at agencies and nongovernmental organizations"--

Drafting a Conservation Blueprint lays out for the first time in book form a step-by-step planning process for conserving the biological diversity of entire regions. In an engaging and accessible style, the author explains how to develop a regional conservation plan and offers experience-based guidance that brings together relevant information from the fields of ecology, conservation biology, planning, and policy. Individual chapters outline and discuss the main steps of the planning process, including:

- an overview of the planning framework
- selecting conservation targets and setting goals

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- assessing existing conservation areas and filling information gaps
- assessing population viability and ecological integrity
- selecting and designing a portfolio of conservation areas
- assessing threats and setting priorities

A concluding section offers advice on turning conservation plans into action, along with specific examples from around the world. The book brings together a wide range of information about conservation planning that is grounded in both a strong scientific foundation and in the realities of implementation.

Forest Ecology and Conservation  
Habitat Management for Conservation  
A Reference Handbook

Routledge Handbook of International  
Environmental Law

Biodiversity Conservation Handbook  
Conservation and Biodiversity Banking

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In recent years, there has been a marked proliferation in the literature on economic approaches to ecosystem management, which has created a subsequent need for real understanding of the scope and the limits of the economic approaches to ecosystems and Explains the meaning and importance of biodiversity, identifies current threats, and includes information on related individuals, organizations, and resources

This volume provides a reference textbook and comprehensive compilation of multifaceted perspectives on the legal issues arising from the conservation and



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exploitation of non-human biological resources. Contributors include leading academics, policy-makers and practitioners reviewing a range of socio-legal issues concerning the relationships between humankind and the natural world. The Routledge Handbook of Biodiversity and the Law includes chapters on fundamental and cutting-edge issues, including discussion of major legal instruments such as the Convention on Biological Diversity and the Nagoya Protocol. The book is divided into six distinct parts based around the major objectives which have emerged from legal frameworks concerned with

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protecting biodiversity. Following introductory chapters, Part II examines issues relating to conservation and sustainable use of biodiversity, with Part III focusing on access and benefit-sharing. Part IV discusses legal issues associated with the protection of traditional knowledge, cultural heritage and indigenous human rights. Parts V and VI focus on a selection of intellectual property issues connected to the commercial exploitation of biological resources, and analyse ethical issues, including viewpoints from economic, ethnobotanical, pharmaceutical and other scientific industry perspectives.

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Biological diversity - or 'biodiversity' - is the degree of variation of life within an ecosystem. It is a relatively new topic of study but has grown enormously in recent years. Because of its interdisciplinary nature the very concept of biodiversity is the subject of debate amongst philosophers, biologists, geographers and environmentalists. The Routledge Handbook of Philosophy of Biodiversity is an outstanding reference source to the key topics and debates in this exciting subject. Comprising twenty-three chapters by a team of international contributors the Handbook is divided into six parts:

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Historical and sociological contexts, focusing on the emergence of the term and early attempts to measure biodiversity

What is biodiversity? How should biodiversity be defined? How can biodiversity include entities at the edge of its boundaries, including microbial diversity and genetically engineered organisms? Why protect biodiversity? What can traditional environmental ethics contribute to biodiversity? Topics covered include anthropocentrism, intrinsic value, and ethical controversies surrounding the economics of biodiversity

Measurement and methodology: including decision-theory and

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conservation, the use of indicators for biodiversity, and the changing use of genetics in biodiversity conservation Social contexts and global justice: including conservation and community conflicts and biodiversity and cultural values Biodiversity and other environmental values: How does biodiversity relate to other values like ecological restoration or ecological sustainability? Essential reading for students and researchers in philosophy, environmental science and environmental studies, and conservation management, it will also be extremely useful to those studying biodiversity in subjects

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such as biology and geography.

From Theory to R Tools

Eastern Cape Biodiversity

Conservation Plan Handbook

A Guide for Policy Makers

Survey, Evaluation and Monitoring

Handbook of Market Creation for

Biodiversity Issues in

Implementation

Issues in Implementation

Professor Fikret Berkes provides a unique introduction to the social and interdisciplinary dimensions of biodiversity conservation.

Examining a range of approaches, new ideas, controversies and debates, he demonstrates that biodiversity loss is not primarily a technical issue, but a social problem that operates in an

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economic, political and cultural context. Berkes concludes that conservation must be democratized in order to broaden its support base and build more inclusive constituencies for conservation.

The Routledge Handbook of International Environmental Law is an advanced level reference guide which provides a comprehensive and contemporary overview of the corpus of international environmental law (IEL). The Handbook features specially commissioned papers by leading experts in the field of international environmental law, drawn from a range of both developed and developing countries in order to put forward a truly global approach to the subject. Furthermore, it addresses emerging and cross-

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cutting issues of critical importance for the years ahead. The book is split into six parts for ease of reference: The Legal Framework, Theories and Principles of International Environmental Law - focuses on the origins, theory, principles and development of the discipline; Implementing International Environmental Law - addresses the implementation of IEL and the role of various actors and institutions, including corporations, intergovernmental organisations and NGOs; Key Issues and Legal Frameworks - brings fresh perspectives of the common general issues of international environmental law, such as biological diversity and marine environmental law; Regional Environmental Law - explores the



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specific regimes developed to address regional environmental issues, considering the evolution, prospects and relationship of regional law and mechanisms to IEL; Cross-Cutting Issues - considers the engagement of international environmental law with other key fields and legal regimes, including international trade, human rights and armed conflict; Contemporary and Future Challenges - analyses pressing current and emerging issues in the field including environmental refugees and climate change, REDD and deforestation, and 'treaty congestion' in IEL. This up-to-date and authoritative book makes it an essential reference work for students, scholars and practitioners working in the field.

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This unique Handbook draws on the experiences described in 22 case studies to develop a comprehensive step-by-step process for identifying and implementing appropriate incentive measures for biodiversity conservation, and the sustainable use of its components.

A Practitioner's Guide to Freshwater Biodiversity Conservation brings together knowledge and experience from conservation practitioners and experts around the world to help readers understand the global challenge of conserving biodiversity in freshwater ecosystems. More importantly, it offers specific strategies and suggestions for managers to use in establishing new conservation initiatives or improving the

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effectiveness of existing initiatives. The book: offers an understanding of fundamental issues by explaining how ecosystems are structured and how they support biodiversity; provides specific information and approaches for identifying areas most in need of protection; examines promising strategies that can help reduce biodiversity loss; and describes design considerations and methods for measuring success within an adaptive management framework. The book draws on experience and knowledge gained during a five-year project of The Nature Conservancy known as the Freshwater Initiative, which brought together a range of practitioners to create a learning laboratory for testing ideas, approaches, tools,

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strategies, and methods. For professionals involved with land or water management-including state and federal agency staff, scientists and researchers working with conservation organizations, students and faculty involved with freshwater issues or biodiversity conservation, and policymakers concerned with environmental issues-the book represents an important new source of information, ideas, and approaches.

A Guide to Understanding and Restoring Global Aquatic Biodiversity and Fishery Resources  
Handbook of Citizen Science in Ecology and Conservation  
The GEO Handbook on Biodiversity Observation Networks  
Remote Sensing for Ecology and Conservation

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A Handbook of Participatory Tools Used to Prepare India's National Biodiversity Strategy and Action Plan

Research, Management and Policy

*This book comprehensively describes essential research and projects on climate change and biodiversity.*

*Moreover, it includes contributions on how to promote the climate agenda and biodiversity conservation at the local level. Climate change as a whole and global warming in particular are known to have a negative impact on biodiversity in three main ways. Firstly, increases in temperatures are detrimental to a number of organisms, especially those in sensitive habitats such as coral reefs and rainforests. Secondly, the pressures posed by a changing climate may lead to*

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*sets of responses in areas as varied as phenology, range and physiology of living organisms, often leading to changes in their lifecycles (especially but not only in reproduction), losses in productivity or even death. In some cases, the very survival of very sensitive species may be endangered. Thirdly, the impacts of climate change on biodiversity will be felt in the short term with regard to some species and ecosystems, but also in the medium and long term in many biomes. Indeed, if left unchecked, some of these impacts may be irreversible. Many individual governments, financial institutes and international donors are currently spending billions of dollars on projects addressing climate change and biodiversity, but with little coordination.*

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*Quite often, the emphasis is on adaptation efforts, with little emphasis on the connections between physiological changes and the lifecycles and metabolisms of fauna and flora, or the influence of poor governance on biodiversity. As such, there is a recognized need to not only better understand the impacts of climate change on biodiversity, but to also identify, test and implement measures aimed at managing the many risks that climate change poses to fauna, flora and micro-organisms. In particular, the question of how to restore and protect ecosystems from the impact of climate change also has to be urgently addressed. This book was written to address this need. The respective papers explore matters related to the use of an*

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*ecosystem-based approach to increase local adaptation capacity, consider the significance of a protected areas network in preserving biodiversity in a changing northern European climate, and assess the impacts of climate change on specific species, including wild terrestrial animals. The book also presents a variety of case studies such as the Yellowstone to Yukon Conservation Initiative, the effects of climate change on the biodiversity of Aleppo pine forest in Senalba (Algeria), climate change and biodiversity response in the Niger Delta region, and the effects of forest fires on the biodiversity and the soil characteristics of tropical peatlands in Indonesia. This is a truly interdisciplinary publication, and will benefit all scholars, social movements,*



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*practitioners and members of governmental agencies engaged in research and/or executing projects on climate change and biodiversity around the world.*

*The Biodiversity Conservation Handbook is designed to assist state and local policymakers who wish to "think globally and act locally" by developing a state or local biodiversity program. In addition to providing background on biodiversity generally and the importance of such programs at the state and local level, it looks at how science can inform and be incorporated into biodiversity programs, the various legal tools states can use in implementing such programs, and the importance of considering people's social and economic needs in designing biodiversity programs.*

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*Last, it examines the steps Pennsylvania has taken to conserve and restore the native biodiversity within its borders. This Handbook describes the types of values usually associated with biodiversity. While there are exceptions to the need to prioritise economic values over other values, economic valuation has a sound theoretical foundation that can help clarify the tradeoffs implicit in public policy decisions. 'Biodiversity' is becoming the keyword for sustaining human society and the ecosystem. The impacts of development on biological diversity, over exploitation of resources of commercial value, changes in land use and land cover, and fragmentation of habitats have led to fastest rate of decline in biodiversity in the 20th Century. This publication*

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*provides an insight into the concept of biodiversity, its value and uses, aspects of conservation of material and traditional knowledge, the linkage between ethnic communities and biodiversity, and several other topics of interest in a lucid and user-friendly manner.*

*A Practitioner's Guide to Freshwater Biodiversity Conservation*

*Handbook of Trait-Based Ecology*

*Routledge Handbook of Agricultural Biodiversity*

*Handbook of Biodiversity Valuation A Guide for Policy Makers*

*Conservation Education*

The Handbook provides a supporting guide to key aspects and applications of landscape ecology to underpin its

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research and teaching. A wide range of contributions written by expert researchers in the field summarize the latest knowledge on landscape ecology theory and concepts, landscape processes, methods and tools, and emerging frontiers.

Landscape ecology is an interdisciplinary and holistic discipline, and this is reflected in the chapters contained in this Handbook. Authors from varying disciplinary backgrounds tackle key concepts such as landscape structure and function, scale and connectivity; landscape processes such as disturbance, flows, and fragmentation; methods such as remote sensing and mapping, fieldwork, pattern analysis, modelling, and participation and engagement in landscape planning; and emerging frontiers such as ecosystem services,

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landscape approaches to biodiversity conservation, and climate change. Each chapter provides a blend of the latest scientific understanding of its focal topics along with considerations and examples of their application from around the world. An invaluable guide to the concepts, methods, and applications of landscape ecology, this book will be an important reference text for a wide range of students and academics in ecology, geography, biology, and interdisciplinary environmental studies.

Biodiversity observation systems are almost everywhere inadequate to meet local, national and international (treaty) obligations. As a result of alarmingly rapid declines in biodiversity in the modern era, there is a strong, worldwide desire to upgrade our monitoring systems, but little clarity on

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what is actually needed and how it can be assembled from the elements which are already present. This book intends to provide practical guidance to broadly-defined biodiversity observation networks at all scales, but predominantly the national scale and higher. This is a practical how-to book with substantial policy relevance. It will mostly be used by technical specialists with a responsibility for biodiversity monitoring to establish and refine their systems. It is written at a technical level, but one that is not discipline-bound: it should be intelligible to anyone in the broad field with a tertiary education.

Textbooks on the principles of conservation biology abound. Yet, how does one put this theoretical knowledge into practice? The aim of The Conservation Handbook is to

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provide clear guidance on the implementation of conservation techniques. The wide range of methods described include those for ecological research, monitoring, planning, education, habitat management and combining conservation with development. Nineteen case studies illustrate how the methods have been applied. The book will be of interest to conservation biology students and practicing conservationists worldwide. For each copy of the book sold, another copy will be sent free to a practicing conservationist outside Western Europe, North America, Australia, New Zealand and Japan. Foreword by E. O. Wilson. Concise, practical guide packed full of ideas, methods and advice. Provides solutions for the main conservation problems most

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commonly encountered. 18 global case studies illustrate the application of techniques. The Conservation Handbook Donations Project this book is being sent free to those practising conservationists outside Western Europe, North America, Australia, New Zealand and Japan who are otherwise unlikely to obtain a copy. These copies are provided at cost price by Blackwell Science, the publisher, and paid for with the author's royalties. Each book sold means another one will be donated.

The world relies on very few crop and animal species for agriculture and to supply its food needs. In recent decades, there has been increased appreciation of the risk this implies for food security and quality, especially in times of environmental change. As a result, agricultural biodiversity has



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moved to the top of research and policy agendas. This Handbook presents a comprehensive overview of our current knowledge of agricultural biodiversity in a series of specially commissioned chapters. It draws on multiple disciplines including plant and animal genetics, ecology, crop and animal science, food studies and nutrition, as well as social science subjects which explore the socio-economic, cultural, institutional, legal and policy aspects of agricultural biodiversity. It focuses not only on the core requirements to deliver a sustainable agriculture and food supply, but also highlights the additional ecosystem services provided by a diverse and resilient agricultural landscape and farming practices. The book provides an indispensable reference textbook for a

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wide range of courses in agriculture, ecology, biodiversity conservation and environmental studies.

Handbook on Biodiversity and  
Ecosystem Services in Impact  
Assessment

Design and Implementation

A Comprehensive Handbook on  
Biodiversity

A Practitioner's Guide To Planning For  
Biodiversity

Fish Conservation

Advanced Introduction to Community-  
based Conservation