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## Ecology & Evolution

2007  
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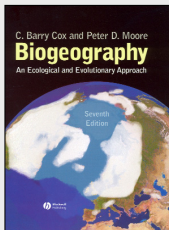
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## KEY TEXTBOOK



## Biogeography

An Ecological and Evolutionary Approach  
Seventh Edition

**C. BARRY COX  
& PETER D. MOORE**

Formerly Kings College, London;  
Kings College, London

*"May I congratulate [Cox and Moore] on once again making a subject that requires of the student a certain breadth of experience and a willingness to embrace many disciplines; attractive appealing and accessible; this publication will continue to be the most authoritative and highly acclaimed text for students of biogeography."*

MALCOLM GREENWOOD,  
LOUGHBOROUGH  
UNIVERSITY

The latest edition of this popular textbook offers an excellent insight into the multidisciplinary nature of biogeography, providing the student with a sound historical base, up-to-date factual content and a clear explanation of current controversies.

Key features include:

- New chapters on the history of biogeography and molecular evidence for the interpretation of patterns of biogeography
- A new section on the biogeography of parasitic diseases
- Strong use of references provide a platform for advanced students to follow further debate in the current literature
- Balanced treatment of continental biogeography, island biogeography and marine biogeography.



440 PAGES - **JANUARY 2005**  
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[ISBN13: 978-1-4051-1898-9] PB  
ARTWORK CD-ROM  
FOR INSTRUCTORS  
1-4051-3433-X  
[ISBN13: 978-1-4051-3433-0]

## Ecological Genetics

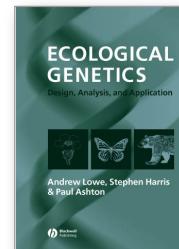
Design, Analysis, and Application

**ANDREW LOWE, STEPHEN HARRIS & PAUL ASHTON**

CEH, Penicuik; University of Oxford; Edge Hill College, Ormskirk

*"The authors have brought together a useful mix of theory, practical approaches, conceptual issues, and individual case studies to provide a balanced and accessible overview of the field."*

PETER HOLLINGSWORTH, ROYAL BOTANIC GARDEN



In clear, accessible language **ECOLOGICAL GENETICS** addresses the fundamental problems of which of the many molecular markers to use and how the resulting data should be analysed. Major topics covered include genetic diversity of populations and species, gene flow, phylogeography and speciation. Written by active researchers and teachers within the field the book is ideal for upper-level undergraduates through to research-level professionals.



344 PAGES - **2004**  
1-4051-0033-8 [ISBN13: 978-1-4051-0033-5] PB

### NEW IN 2007

## Peer Review and Manuscript Management in Scientific Journals

Guidelines for Good Practice

**IRENE HAMES**

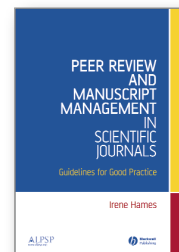
Managing Editor of *The Plant Journal*

Co-published with the *Association of Learned and Professional Society Publishers (ALPSP)*, this book provides a thorough and complete guide to every aspect of managing the peer review process for scientific journals, from manuscript submission through to final decision-making.

It is an essential reference for science journal editors, editorial office staff and publishers. It is an invaluable handbook for the set-up of new editorial offices, as well as a useful reference for well-established journals which may need guidance on a particular situation, or may want to review their current practices.

208 PAGES - **MARCH 2007**

1-4051-3159-4 [ISBN13: 978-1-4051-3159-9] PB



### ALSO AVAILABLE

#### Introductory Ecology

**PETER COTGREAVE & IRWIN FORSETH**



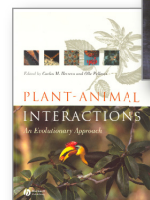
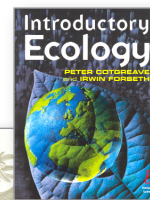
288 PAGES - **2002**  
0-632-04227-3 [ISBN13: 978-0-632-04227-2] PB

#### Plant Animal Interactions

Edited by **CARLOS M. HERRERA & OLLE PELLMYR**



328 PAGES - **2002**  
0-632-05267-8 [ISBN13: 978-0-632-05267-7] PB



NEW

## Introduction to Population Ecology

LARRY L. ROCKWOOD

George Mason University

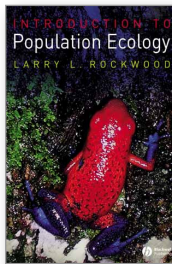
Covering all aspects of population ecology, this text uses botanical and zoological examples ranging from the tropics to the tundra, as well as field and laboratory data to illustrate the fundamental laws of population ecology.

Each chapter provides an overview of how population theory has developed, exploring single-species population growth and self-limitation, metapopulations, and a broad range of interspecific interactions including parasite-host, predator-prey, and plant-herbivore.

Throughout, the mathematics is kept as simple as possible, using a careful step-by-step approach, and including graphs and other visual aids to help understanding. Sample simulations can be found at [www.blackwellpublishing.com/rockwood](http://www.blackwellpublishing.com/rockwood). It is an essential introduction to population ecology for undergraduate and graduate students taking courses in population ecology, including those with little mathematical experience.



352 PAGES - JANUARY 2006 / 1-4051-3263-9 (ISBN13: 978-1-4051-3263-3) PB



## Essentials of Ecology

Second Edition

COLIN R. TOWNSEND, MICHAEL BEGON & JOHN L. HARPER

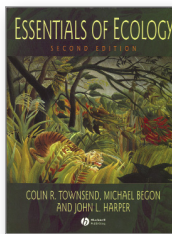
University of Otago; The University of Liverpool; University of Exeter

Designed to cultivate the novice student's understanding of, and fascination with, the natural world, this text outlines the essential principles of ecology from the theoretical fundamentals to their practical applications.

- ☑ Combines classic essays with over 100 real-world examples
- ☑ Chapters contain full colour artwork, review questions and boxes highlighting key concepts and topical issues
- ☑ The accompanying website ([www.blackwellpublishing.com/townsend](http://www.blackwellpublishing.com/townsend)) has been redesigned to provide new student and instructor resources including new multiple choice tutorials, an interactive modeling tool, and downloadable artwork.



544 PAGES - 2002 / 1-4051-0328-0 (ISBN13: 978-1-4051-0328-2) PB



KEY TEXTBOOK

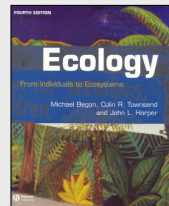
## Ecology

From Individuals to Ecosystems

Fourth Edition

MICHAEL BEGON,  
COLIN R. TOWNSEND  
& JOHN L. HARPER

The University of Liverpool; University of Otago; University of Exeter



*"Unparalleled among ecology texts for its breadth of coverage of contemporary ecology and for its clear presentation of even the more complex topics. The coverage of population ecology is superb, and the presentation of all topics is enriched both by extremely clear illustrations and a rich use of examples of human relationships with the environment. It should be read by all aspiring ecologists and the professors who teach them."*

MARCEL HOLYOAK,  
UNIVERSITY OF  
CALIFORNIA, DAVIS

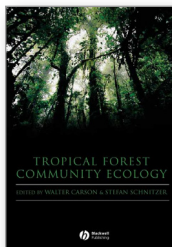
Long-regarded as the definitive textbook on all aspects of ecology, this book improves students' preparedness to address the environmental problems of the new millennium, covering everything from first principles of ecology, to the current state of the field.

The new edition includes includes:

- ☑ Three new chapters on applied ecology, reflecting a rigorous, scientific approach to the ecological problems now facing mankind
- ☑ Discussion of over 800 new studies, updating the text throughout
- ☑ An updated, user-friendly design with margin notes and chapter summaries that serve as study aids
- ☑ A dedicated website at [www.blackwellpublishing.com/begon](http://www.blackwellpublishing.com/begon).



752 PAGES - 2005  
1-4051-1117-8  
(ISBN13: 978-1-4051-1117-1) PB



NEW IN 2007

## Tropical Forest Community Ecology

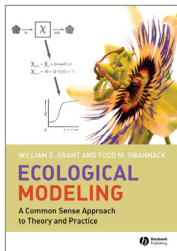
Edited by WALTER CARSON & STEFAN SCHNITZER

University of Pittsburgh; University of Wisconsin

Containing contributions from some of the world's leading tropical ecologists this book provides a summary of the key issues facing the discipline of tropical ecology. Ideal for advanced undergraduate and graduate students it covers patterns of species distribution, the maintenance of species diversity, the community ecology of tropical animals, forest regeneration and conservation of tropical ecosystems.



400 PAGES - NOVEMBER 2007 / 1-4051-1897-0 (ISBN13: 978-1-4051-1897-2) PB



**NEW IN 2007**

## Ecological Modeling

A Commonsense Approach to Theory and Practice

**WILLIAM E. GRANT & TODD M. SWANNACK**

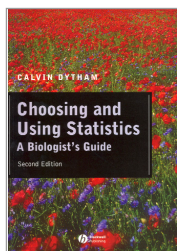
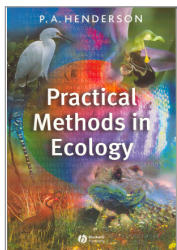
Both Texas A&M University

This practical guide for students, teachers, and professional ecologists explores how simulation modeling and its new ecological applications can offer solutions to complex natural resource management problems. It examines four phases of the modeling process: conceptual model formulation, quantitative model specification, model evaluation, and model use.

The book provides:

- ☑ Useful building blocks for constructing systems simulation models
- ☑ A format for reporting the development and use of simulation models
- ☑ An integrated systems perspective for students, faculty, and professionals
- ☑ Helpful insights from over 30 years of university teaching.

200 PAGES - **DECEMBER 2007**  
1-4051-6168-X [ISBN13: 978-1-4051-6168-8] PB



## Choosing and Using Statistics

A Biologist's Guide

Second Edition

**CALVIN DYTHAM**

University of York

*"A student affordable recommended purchase with no equation in sight!"*

MICROBIOLOGY TODAY

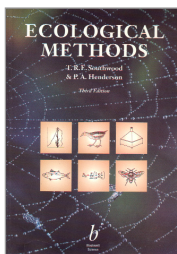
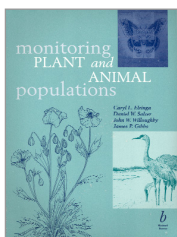
*"It would be an interesting experiment (with appropriate statistical tests of course), to see how often a lab copy was used by researchers and academic staff. I suspect it would be rather frequently and with good reason!"*

BIOLOGIST

An excellent handbook for students or professional biologists who wants to process data using a statistical package on the computer, select the appropriate methods, and extract the important information from the often confusing output that is produced.

- ☑ Sections on multivariate techniques expanded to give further examples of PCA and DFA.
- ☑ New simplified version of the Key and flow chart of decisions to reach simple statistical tests.
- ☑ Statistical jargon explained through an extensive glossary and key to symbols.
- ☑ Stresses the importance of experimental design, measurement of data and interpretation of results rather than an understanding of the statistical tests themselves.

264 PAGES - **2003**  
1-4051-0243-8 [ISBN13: 978-1-4051-0243-8] PB



## Practical Methods in Ecology

**P.A. HENDERSON**

PISCES Conservation

*"A valuable manual for field workers in ecology. It is well thought out, identifying common pitfalls facing novice researchers."*

CHOICE

Using a host of examples from ponds and streams, fields, sea shores and woodlands, this manual introduces students and field workers to the methods used to collect and analyze data. It covers planning fieldwork, the statistical tests used, techniques used to sample communities and estimate population size and techniques for population and community analysis.

176 PAGES - **2003**  
1-4051-0244-6 [ISBN13: 978-1-4051-0244-5] PB

**ALSO AVAILABLE**

### Monitoring Plant and Animal Populations

**CARY L. ELZINGA, DANIEL W. SALZER,  
JOHN W. WILLOUGHBY & JAMES P. GIBBS**

368 PAGES - **2001**  
0-632-04442-X [ISBN13: 978-0-632-04442-9] PB

### Ecological Methods, Third Edition

**T.R.E. SOUTHWOOD & P.A. HENDERSON**

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# ECOLOGICAL METHODS AND CONCEPTS

Series Editor: **ROGER KITCHING**

Griffith University, Brisbane

This series, successor to the **Methods in Ecology** series edited by John Lawton and Gene Likens, presents the latest ideas and techniques across the whole field of ecology and its applications, from the genetic to the global, from pest management to policy development.

Books are single or multi-authored and address emerging new areas within the field as well as up-dating well-established areas of endeavor. The new series editor is Professor Roger Kitching of Griffith University, Brisbane, who welcomes suggestions for works within the series. E-mail: [r.kitching@griffith.edu.au](mailto:r.kitching@griffith.edu.au)

**NEW IN 2007**

## Litter Decomposition in Aquatic Ecosystems

Edited by **MARK GESSNER**

Swiss Federal Institute of Aquatic Science and Technology

Provides an overview of the methods used to examine the decomposition of plant litter, one of the most fundamental ecosystem processes. Special emphasis is placed on leaf litter in fresh waters, but the methods discussed are also applicable to plant litter in coastal marine and terrestrial ecosystems. Chapters explore a range of topics including the controlling factors of litter mass loss including detritivores, fungi and bacteria associated with decomposing litter, and bulk chemical litter properties. Rather than presenting specific protocols, the book focuses on the principles and concepts underlying the various methods and their relative merits and limitations.

280 PAGES - OCTOBER 2007 / 1-4051-0858-4 [ISBN13: 978-1-4051-0858-4] PB

**NEW IN 2007**

## Stable Isotopes in Ecology and Environmental Science

Second Edition

Edited by **ROBERT MICHENER & KATE LAJTHA**

Boston University; Oregon State University

Investigates the new and emerging uses of stable isotope analysis in a variety of ecological disciplines. Explaining the underlying principles and assumptions as well as potential limitations and pitfalls, it examines the variety of techniques used to:

- ☑ Follow whole ecosystem element cycling
- ☑ Understand processes of soil organic matter formation
- ☑ Follow the movement of water in whole watersheds
- ☑ Understand the effects of pollution in both terrestrial and aquatic environments
- ☑ Study extreme systems such as hydrothermal vents and follow migrating organisms.

552 PAGES - SEPTEMBER 2007 / 1-4051-2680-9 [ISBN13: 978-1-4051-2680-9] PB



## Insect Sampling in Forest Ecosystems

Edited by **SIMON LEATHER**

Imperial College, London

*"The chapters are concise but well illustrated and the index of methods is a real bonus. Coverage is excellent and there's enough material to plan sampling or to discuss it in a wider context. With a lot of coverage in a compact form this text would be a good addition to a field work library."*

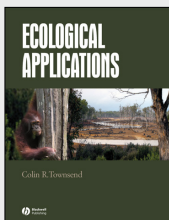
TEACHING ECOLOGY GROUP NEWSLETTER

Highlighting the problems faced by entomologists working in forest ecosystems, this book suggests ways in which their methodology can be modified so that it is understood by ecologists and become accepted within the general fields of ecology and entomology.

320 PAGES - 2004

0-632-05388-7 [ISBN13: 978-0-632-05388-9] PB

## NEW KEY TEXTBOOK



## Ecological Applications

Toward a Sustainable World

COLIN R. TOWNSEND

University of Otago

This accessible and forward-thinking guide is an excellent resource for students and practitioners interested in improving the health of local ecosystems. It presents a broad range of methods and techniques

for managing environmental sustainability and examines ecological theory at the individual, population, and community levels. It also deals with the macroecological scale of landscape, regional, and global issues.

- ▣ Focuses on ecological applications for sustainability.
- ▣ Includes analysis of basic theory that incorporates economic and sociopolitical aspects.
- ▣ Looks at a number of methods for managing sustainability, including restoration, conservation, biosecurity, pest control, harvest management, and the design of reserves.
- ▣ Urges the reader to engage in ecological, economic and social sustainability to protect the environment.



328 PAGES - MAY 2007  
1-4051-3698-7 (ISBN13: 978-1-4051-3698-3) PB

## NEW

## Invasion Ecology

JULIE L. LOCKWOOD, MARTHA F. HOOPES  
& MICHAEL P. MARCHETTI

Rutgers University; Mount Holyoke College; California State University, Chico

Introduces students in ecology and conservation management to all aspects of biological invasion by non-native species. It looks at the complete invasion process from transportation patterns and causes of establishment success to ecological impacts, invader management and post-invasion evolution, and highlights the most important research findings associated with each stage. It also investigates the latest developments in the dynamics of non-native species and their adverse effects on native biota and human economies.



312 PAGES - NOVEMBER 2006  
1-4051-1418-5 (ISBN13: 978-1-4051-1418-9) PB

## Restoration Ecology

The New Frontier

Edited by JELTE VAN ANDEL  
& JAMES ARONSON

University of Groningen; Centre de National de La Recherche Scientifique

*"Restoration Ecology will foster communication and synthesis between those who practice restorations and those who conduct ecological research, particularly in the battlefields of Europe. It is a valuable assessment of work at this exciting interface."*

TRENDS IN ECOLOGY AND EVOLUTION

*"Synthesizes current thinking in restoration ecology and provides an up-to-date source book which will be useful to restoration ecologists everywhere."*

RICHARD HOBBS, MURDOCH UNIVERSITY

Combining theory with practical advice this book explores the interface between restoration ecology and ecological restoration.

- ▣ Challenges ecologists to explore the applicability of current theories and concepts.
- ▣ Examines the academic foundations of restoration ecology.
- ▣ Reviews the causes of successes and failures.
- ▣ Identifies the perspectives of ecological restoration in different types of ecosystem types.
- ▣ Addresses the societal problems associated with ecological restoration.



320 PAGES - 2005  
0-632-05834-X (ISBN13: 978-0-632-05834-1) PB

## An Introduction to Environmental Chemistry

Second Edition

JULIAN E. ANDREWS, PETER BRIMBLECOMBE,  
TIM D. JICKELLS, PETER S. LISS & BRIAN J. REID

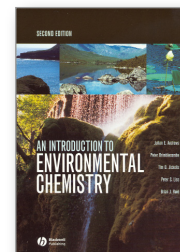
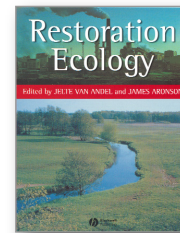
All University of East Anglia

*"I can strongly recommend this book as a basic text for all those who wish to gain an initial understanding of the chemistry of the Earth and the way humans are interacting with their environment."*

PROGRESS IN PHYSICAL GEOGRAPHY



320 PAGES - 2003  
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# Coastal-Marine Conservation

Science and Policy


G. CARLETON RAY  
& JERRY McCORMICK-RAY

Both University of Virginia

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CHOICE


Introduces students and managers to the critical issues facing coastal-marine conservation and suggests future policy and management strategies for dealing with them.

 344 PAGES - 2003  
0-632-05537-5 [ISBN13: 978-0-632-05537-1] PB

## ALSO AVAILABLE


### Marine Fisheries Ecology

SIMON JENNINGS, MICHEL KAISER  
& JOHN D. REYNOLDS

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### Ecology of Fresh Waters, Third Edition

BRIAN MOSS

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0-632-03512-9 [ISBN13: 978-0-632-03512-0] PB


### Introduction to Marine Ecology, Third Edition

R.S.K. BARNES & R.N. HUGHES

 296 PAGES - 1999  
0-86542-834-4 [ISBN13: 978-0-86542-834-8] PB

### Freshwater Ecology

GERRY CLOSS, BARBARA DOWNES & ANDREW BOULTON

 240 PAGES - 2003  
0-632-05266-X [ISBN13: 978-0-632-05266-0] PB

### The Lakes Handbook

EDITED BY P. E. O'SULLIVAN & C. S. REYNOLDS

TWO VOLUME SET / 528 PAGES - 2005  
0-632-04794-1 [ISBN13: 978-0-632-04794-9] HB  
VOLUME 1 / 712 PAGES - 2003  
0-632-04797-6 [ISBN13: 978-0-632-04797-0] HB  
VOLUME 2 / 568 PAGES - 2004  
0-632-04795-X [ISBN13: 978-0-632-04795-6] HB

# Dynamics of Marine Ecosystems

Biological-Physical Interactions in the Oceans  
Third Edition

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Bedford Institute of Oceanography

*"The explanation of the physical processes in this book are at just the right level, being advanced, up-to-date and clear, but without a lot of complex mathematics."*

PAUL RUSSELL, UNIVERSITY OF PLYMOUTH

This easy to use book examines the effects of biological-physical interactions in the oceans from the microscopic to the global scale. It considers the influence of physical forcing on biological processes in a wide range of marine habitats including coastal estuaries, shelf-break fronts, major ocean gyres, coral reefs, coastal upwelling areas, and the equatorial upwelling system.

The new edition includes research linking long-term variability in global atmosphere circulation with the circulation of ocean basins and changes in fish stocks.

 512 PAGES - 2005  
1-4051-1118-6 [ISBN13: 978-1-4051-1118-8] PB

# Biological Oceanography


CHARLES B. MILLER

Oregon State University

*"An excellent introduction to the vast field of biological oceanography at a reasonably sophisticated level, and is well worth reading on the basis of its wonderful style alone."*

BOTANICA MARINA

Taking a biological approach, this book introduces readers to ocean ecology and marine life. It looks at recent developments that have allowed a re-examination of the oceans' microbial ecology and the role of the various trophic and organismal groups in biogeochemical cycling, carbon flow, and climate control. Coverage includes pelagic, benthic, and hydrothermal habitats, modeling and fisheries.

 416 PAGES - 2003  
0-632-05536-7 [ISBN13: 978-0-632-05536-4] PB

NEW

# Global Coastal Change

IVAN VALIELA

Boston University

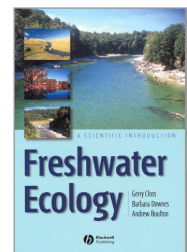
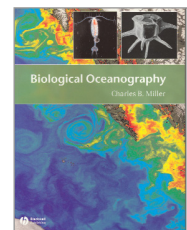
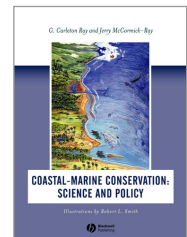
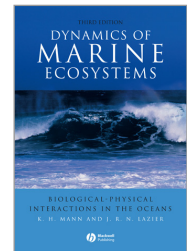
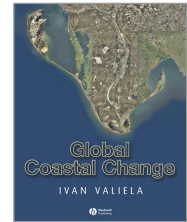
*"This text covers a great deal of material providing a useful mix of classic and modern studies to back up the cases presented. In doing this in one volume, the author has produced a great one-stop introductory resource which is just what is needed if we are to tackle this growing problem"*

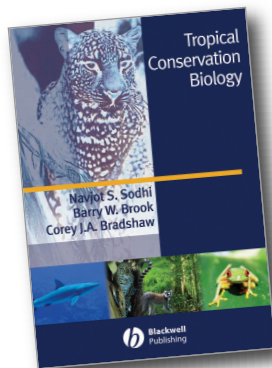
TENEWS, BRITISH ECOLOGICAL SOCIETY

Evaluating the evidence of change at a local and global level this exciting book explores the wide range of environmental factors affecting coastal environments and the marine systems of the world. These factors include atmospheric changes, sea level rise, alterations in freshwater and sediment use and transport, toxins, overfishing, alien species, and eutrophication.

Using real-world examples, each chapter provides a detailed review of the evidence of changes and possible solutions to resulting problems. It will be an invaluable reference for upper level undergraduates, graduates, and professionals interested in marine environmental science.

376 PAGES - JULY 2006  
1-4051-3685-5  
[ISBN13: 978-1-4051-3685-3] PB





NEW IN 2007

## Tropical Conservation Biology

NAVJOT SODHI, BARRY W. BROOK  
& COREY BRADSHAW

National University of Singapore; Charles Darwin University; Charles Darwin University

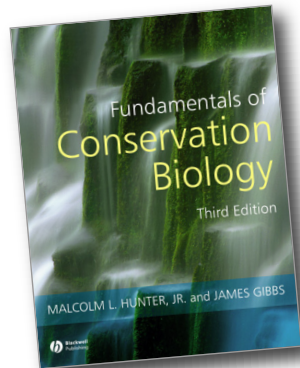
Documenting the current state of tropical biodiversity, this introductory textbook examines terrestrial and aquatic habitats in the tropics. It covers a broad range of topics including: the fate of the coral reefs; the impact of agriculture, urbanization, and logging on habitats; and the effects of fire on plant and animal survival.

The text reveals conservation successes in the region, and emphasizes the need to integrate social issues, such as poverty, into tangible conservation plans. It also looks at ways to predict future outcomes and mitigate human impacts.

Case studies and interviews with prominent conservation scientists are provided to help place key concepts in a real-world context. Further pedagogical features include helpful chapter introductions and summaries, as well as suggestions for further reading.



240 PAGES - SEPTEMBER 2007  
1-4051-5073-4 [ISBN13: 978-1-4051-5073-6] PB



NEW

## Fundamentals of Conservation Biology

Third Edition

MALCOLM L. HUNTER, JR. & JAMES GIBBS

University of Maine; State University of New York

*"This is an excellent text that provides a clear, lucid, and comprehensive summary of approaches used in biological conservation. It should inspire a new generation of conservation biologists."*

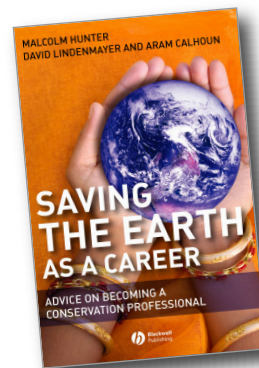
TIM COULSON, IMPERIAL COLLEGE, LONDON

In the new edition of this highly successful book, Malcolm Hunter and new co-author James Gibbs offer a thorough introduction to conservation biology, focusing on what can be done to maintain biodiversity through the management of ecosystems and populations.

- ▣ Starting with a succinct look at conservation and biodiversity, the book progresses to contend with some of the subject's most complex topics, such as mass extinctions, ecosystem degradation, and over exploitation.
- ▣ Discusses social, political, and economic aspects of conservation biology.
- ▣ Thoroughly revised with over 750 new references and web links to many of the organizations involved in conservation biology, striking photographs and maps.



516 PAGES - NOVEMBER 2006  
1-4051-3545-X [ISBN13: 978-1-4051-3545-0] HB



NEW IN 2007

## Saving the Earth as a Career

Advice on Becoming a Conservation Professional

MALCOLM HUNTER, DAVID  
LINDENMAYER & ARAM CALHOUN

University of Maine; Australian National University; University of Maine

Written in an informal and engaging style, **SAVING THE EARTH AS A CAREER** is an ideal resource for students and professionals pursuing a career in conservation. It informs readers of the steps they need to make to become a conservation professional, from making the right career choice to finding a position in the field. It provides helpful advice to students about selecting a program, conducting research projects, writing papers, and attending conferences. It also reviews the variety of different professions available, from environmental lawyer and civil engineer, to ecologist and environmental scientist.

Contents includes:

- ▣ Is this the right career for you?
- ▣ Selecting and educational program.
- ▣ Attending conferences and making presentations.
- ▣ Finding a job.
- ▣ Making a difference.

176 PAGES - JUNE 2007  
1-4051-6761-0 [ISBN13: 978-1-4051-6761-1] PB

NEW

## Conservation and the Genetics of Populations

FRED W. ALLENDORF & GORDON H. LUIKART

University of Montana, Missoula & Victoria University of Wellington; University of Montana, Missoula & Center for Investigation of Biodiversity and Genetic Resources (CIBIO), Portugal

Using a combination of theory and real-life research findings, this book provides students with a thorough understanding of the genetic basis of biological problems in conservation. It presents the concepts and tools needed to understand how genetic information can be used to develop conservation plans for species threatened with extinction.

- Using examples from both plants and animals it examines genetic and phenotypic variation in natural populations, the principles and mechanisms of evolutionary change, the interpretation of genetic data from natural populations, and how this may be applied to conservation.
- Discussion questions and problems are included at the end of each chapter to aid understanding.
- Features Guest Boxes written by leading people in the field including James F. Crow, Robert C. Lacy, Michael W. Nachman, Michael E. Soule, Loren H. Rieseberg, R.C. Vrijenhoek, Robin S. Waples and Andrew Young.
- An associated website ([www.blackwellpublishing.com/allendorf](http://www.blackwellpublishing.com/allendorf)) contains sample data sets and software programs illustrating problems from the book as well as downloadable artwork and links to useful websites.



644 PAGES - JUNE 2006 / 1-4051-2145-9 [ISBN13: 978-1-4051-2145-3] PB

NEW IN 2007

## Introduction to Modeling in Wildlife and Resource Conservation

NORMAN OWEN-SMITH

University of the Witwatersrand, Johannesburg

Provides students with the skills to develop their own models for application in conservation biology and wildlife management. Assuming no special mathematical expertise, the computational models used are kept simple and students are shown how to develop models in both spreadsheet and programming language format.

It develops thought-provoking applications which emphasize the value of modeling as a learning tool. Beginning with basic descriptive equations, matrix representations, and consumer-resources interactions, it goes on to explore applications in simulation scenarios, harvesting, population viability, metapopulation dynamics, disease outbreaks, vegetation stage and state dynamics, habitat suitability assessment, and model selection statistics.

A wide range of examples relating to birds, fish, plants and large African mammals are used throughout the book.



336 PAGES - APRIL 2007 / 1-4051-4439-4 [ISBN13: 978-1-4051-4439-1] PB

NEW IN 2007

## Problem-Solving in Conservation Biology and Wildlife Management

Second Edition

JAMES GIBBS, MALCOLM HUNTER & ELEANOR J. STERLING

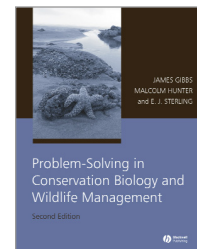
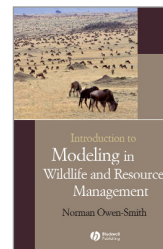
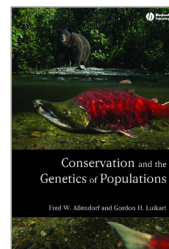
State University of New York; University of Maine; American Museum of Natural History, New York

This set of exercises has been created expressly for students and teachers of conservation biology and wildlife management who want to have an impact beyond the classroom. It presents a set of 27 exercises spanning a wide range of conservation issues: genetic analysis, population biology and management, taxonomy, ecosystem management, land use planning, the public policy process and more. All exercises discuss how to take what has been learned and apply it to practical, real-world issues.

Accompanied by a detailed instructor's manual and a student website ([www.blackwellpublishing.com/gibbs](http://www.blackwellpublishing.com/gibbs)) with software and support materials, the book is ideal for use in the field, lab, or classroom.



224 PAGES - AUGUST 2007  
1-4051-5287-7 [ISBN13: 978-1-4051-5287-7] PB



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NEW

## Conservation of Wildlife Populations

Demography, Genetics, and Management

L. SCOTT MILLS

University of Montana, Missoula

*"Scott Mills cleverly bridges the gap between conservation genetics and population ecology; a connection often given short thrift in more specialized titles. The writing style is engaging, and technical concepts are regularly reinforced with interesting real-world examples."*

BARRY W. BROOK, CHARLES DARWIN UNIVERSITY

This accessible introduction covers the most relevant concepts and principles for solving real-world management problems in wildlife and conservation biology. Bringing together insights from traditionally disparate disciplines, the book shows how population biology addresses important questions involving the harvest, monitoring, and conservation of wildlife populations. The most up-to-date approaches for assessing factors that affect both population growth and interactions with other species are covered in detail, including predation, genetic changes, harvest, introduced species, viability analysis, and habitat loss and fragmentation.

It is an essential guide for undergraduates and postgraduate students of wildlife biology, conservation biology, ecology, and environmental studies; and will be invaluable for practising managers requiring an up-to-date assessment of how population biology can be applied to wildlife conservation and management.



424 PAGES - DECEMBER 2006  
1-4051-2146-7 [ISBN13: 978-1-4051-2146-0] PB

## Wildlife Ecology, Conservation and Management

Second Edition

ANTHONY R.E. SINCLAIR,  
JOHN M. FRYXELL & GRAEME CAUGHLEY

University of British Columbia; University of Guelph; CSIRO Research

This popular textbook provides a thorough introduction to general ecological principles and examines how they can be applied to wildlife management and conservation.

- Expanded and updated, this second edition includes new chapters on understanding ecosystems and the use of computer models in wildlife management.
- Gives a comprehensive, up-to-date overview of ecology including the latest theories on population dynamics and conservation.
- Reviews practical applications and techniques and how these can be used to formulate realistic objectives within an ecological framework.
- Examples of real-life management situations from around the world provide a broad perspective on the international problems of conservation.
- Worked examples on CD enable students to practice calculations explained in the text.



488 PAGES - 2005  
1-4051-0737-5 [ISBN13: 978-1-4051-0737-2] PB

## Tropical Rain Forests

An Ecological and Biogeographical Comparison

RICHARD PRIMACK & RICHARD CORLETT

Boston University; University of Hong Kong

*"This may become the most important book on tropical forests published in the first decade of the 21st century."*

BIOSCIENCE

*"Even if you have no academic interest in rain forests it is well worth reading."*

BRITISH ECOLOGICAL SOCIETY BULLETIN

336 PAGES - 2004  
0-632-04513-2 [ISBN13: 978-0-632-04513-6] HB

NEW

## Key Topics in Conservation Biology

Edited by DAVID MACDONALD  
& KATRINA SERVICE

Wildlife Conservation Research Unit, University of Oxford; University of East London

Written by an internationally renowned team of authors, this book explores cutting-edge issues in modern biodiversity conservation, including controversial subjects such as rarity and prioritization, conflict between people and wildlife, the human aspect of conservation, the relevance of animal welfare, and the role of non-government organizations.

It tackles the management of wildlife diseases, and examines the impact of bushmeat extraction and hunting. It also explores basic tools of conservation biology, such as computer modeling, conservation genetics, metapopulation processes, and the ingenious use of hi-tech equipment. Each topic is explored by three top international experts, assembled to bring their cross-cutting knowledge to a penetrating synthesis of the issues from both theoretical and practical perspectives.

The text includes contributions from: Hugh P. Possingham, Georgina M. Mace, Stuart L. Pimm, Mark S. Boyce, Joshua Ginsberg, Robert Smith, John Fa, John Reynolds, E.J. Milner-Gulland, Raman Sukumar.



328 PAGES - MAY 2006  
1-4051-2249-8 [ISBN13: 978-1-4051-2249-8] PB

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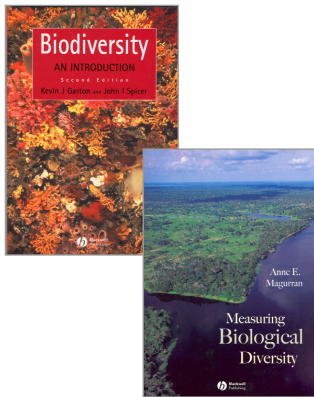
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## Biodiversity

An Introduction  
Second Edition

KEVIN J. GASTON  
& JOHN I. SPICER

University of Sheffield; University of Plymouth

*"This excellent little book packs a big punch due to the well chosen examples and case studies, and its engaging, concise and readable style."*

BIOLOGICAL CONSERVATION



208 PAGES - 2003  
1-4051-1857-1 [ISBN13: 978-1-4051-1857-6] PB

## Measuring Biological Diversity

ANNE E. MAGURRAN

University of St Andrews

*"This book is not just recommended to working ecologists - it is essential."*

TIMES HIGHER EDUCATION SUPPLEMENT



260 PAGES - 2003  
0-632-05633-9 [ISBN13: 978-0-632-05633-0] PB

### ALSO AVAILABLE

#### The Conservation Handbook

WILLIAM SUTHERLAND

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0-632-05344-5 [ISBN13: 978-0-632-05344-5] PB

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**Nigel Stork**, University of Melbourne

**Rosie Woodroffe**, University of California, Davis

### NEW IN 2007

## Bushmeat and Livelihoods

Wildlife Management and  
Poverty Reduction

Edited by GLYN DAVIES  
& DAVID BROWN

Zoological Society of London; Overseas Development Agency

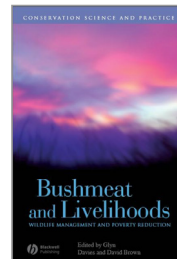
Written by leading scholars in conservation biology, social policy, and development, this book addresses one of the major conservation and development issues of today.

- ▣ Assembles biological, social and economic perspectives that illuminate the bushmeat debate.
- ▣ Features a series of case studies that explore what species survive different intensities of bushmeat hunting and trapping.
- ▣ Examines the shape and size of household bushmeat consumption and market trading.
- ▣ Reviews governance and institutional impacts on wildlife management; lessons learned from agriculture, forest plant product, and development sectors; and perspectives from Asia and Latin America.
- ▣ Provides an excellent resource for students and policy makers in wildlife management, conservation, and development.

SERIES: CONSERVATION SCIENCE AND PRACTICE

224 PAGES - SEPTEMBER 2007

1-4051-6779-3 [ISBN13: 978-1-4051-6779-6] PB



### NEW IN 2007

## Managing and Designing Landscapes for Conservation

Moving from Perspectives to Principles

Edited by DAVID LINDENMAYER  
& RICHARD HOBBS

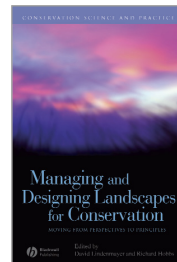
Australian National University; Murdoch University

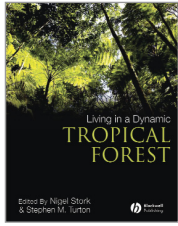
In this original guide, the world's leading experts in landscape ecology and conservation biology explore the key principles and emerging topics surrounding landscape design for conservation. Using case studies drawn from across the globe, it highlights the distinctive relationships between landscape change, habitat fragmentation, and biodiversity conservation and offers a blend of theoretical and practical information.

SERIES: CONSERVATION SCIENCE AND PRACTICE

576 PAGES - JUNE 2007

1-4051-5914-6 [ISBN13: 978-1-4051-5914-2] PB





NEW IN 2007

## Global Issues

An Introduction  
Third Edition

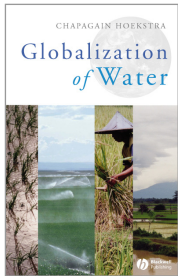
**JOHN L. SEITZ**  
Wofford College

Fully updated and expanded, this new edition introduces students to the environmental, economic, social, and political concerns of modern life.

- Includes new sections on foreign aid and development assistance, terrorism, the relationship between geography and wealth and poverty, food and the overweight, and the Millennium Development Goals.
- Features an updated and expanded section on climate change, as well as a new glossary.
- Illustrates key topics and issues with diagrams and photographs.
- Provides guides to further reading, media, and internet resources, and suggestions for discussing and studying the material.



320 PAGES - JUNE 2007  
1-4051-5496-9 [ISBN13: 978-1-4051-5496-3] HB / 1-4051-5497-7 [ISBN13: 978-1-4051-5497-0] PB



NEW IN 2007

## Globalization of Water

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This innovative text offers a state-of-the-art review of the critical relationship between globalization and sustainable water management. It explores the impact of local water depletion and pollution on the global economy, and highlights the hidden link between national consumption and the use of water resources worldwide. It also examines the threats faced by countries identified as 'water dependent' and whether international trade can be a tool to enhance global water use efficiency.

120 PAGES - SEPTEMBER 2007 / 1-4051-6335-6 [ISBN13: 978-1-4051-6335-4] HB

NEW IN 2007

## Living in a Dynamic Tropical Forest Landscape

Edited by **NIGEL STORK & STEPHEN M. TURTON**  
Both James Cook University

Written by a large number of international experts, this reference work brings together a wealth of scientific findings and ecological knowledge about the wet tropics of North Queensland, Australia.

- The most thorough assessment of a tropical forest landscape to date, including coverage of the social and economic dimensions.
- Explores significant scientific breakthroughs in areas including conservation genetics, vegetation modeling, agroforestry and revegetation techniques, biodiversity assessment and modeling, impacts of climate change, and the integration of science in natural resource management.
- Written for an international audience, this volume places references and chapters in their global contexts.

448 PAGES - OCTOBER 2007  
1-4051-5643-0 [ISBN13: 978-1-4051-5643-1] HB

## Political Ecology

A Critical Introduction

**PAUL ROBBINS**  
University of Arizona

*"This is an excellent, refreshing text... it should be seen as a set text on all ecology courses and deserves the widest readership."*

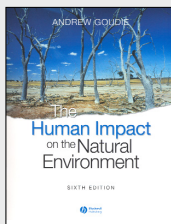
PAUL GANDERTON, TEACHING ECOLOGY GROUP

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264 PAGES - 2004  
1-4051-0265-9 [ISBN13: 978-1-4051-0265-0] HB  
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This classic text introduces students to the major environmental issues facing the world today, as well as the past, present and future impact of humans on Earth.

The new edition has been designed to be even more accessible and easy to use, and contains many new figures and statistics. Four completely new chapters explore the ways in which global climate change may have an impact on Earth in the future. Other chapters explore the impact of humans upon vegetation, animals, soils, water, landforms, and the atmosphere.



376 PAGES - 2005

1-4051-2704-X

[ISBN13: 978-1-4051-2704-2] PB

NEW

## Living in a Chemical World

Framing the Future in Light of the Past

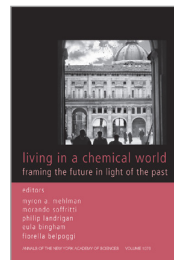
Edited by MYRON A. MEHLMAN, MORANDO SOFFRITTI, PHILIP LANDRIGAN, EULA BINGHAM & FIORELLA BELPOGGI

Robert Wood Johnson Medical School; European Ramazzini Foundation, Bologna; Mount Sinai School of Medicine, New York; University of Cincinnati; European Foundation of Oncology and Environmental Sciences

Based on a conference held by the Collegium Ramazzini, an international academy of scientists who are experts in the fields of occupational and environmental health, this volume considers the carcinogenic risks present in the general and occupational environment.

SERIES: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES / 500 PAGES - DECEMBER 2006 / 1-57331-653-9 [ISBN13: 978-1-57331-653-8] PB

Also see page 24 for the journal *Annals of the New York Academy of Sciences*



## Geographies of Global Change

Remapping the World

Second Edition

Edited by R.J. JOHNSTON, PETER J. TAYLOR & MICHAEL J. WATTS

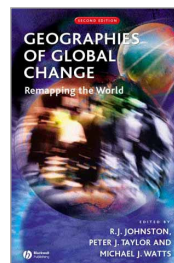
University of Bristol; Loughborough University; University of California, Berkeley

This popular text presents a collection of 28 specially commissioned essays by leading geographers from across the world, addressing questions about how and why the world has changed, is changing, and will continue to change. The volume provides students with a series of critical insights into the economic, political, social, cultural and ecological dimensions of change at every geographical scale from the global to the local.

The second edition contains new material on economic changes relating to world trade and labor, political changes in the post cold-war era and geopolitics, social and cultural changes relating to children, race, consumption, and cyberspace, and changes in environmental governance.



544 PAGES - 2002 / 0-631-22286-3 [ISBN13: 978-0-631-22286-6] PB



## Environmental Ethics

An Anthology

Edited by ANDREW LIGHT & HOLMES ROLSTON III

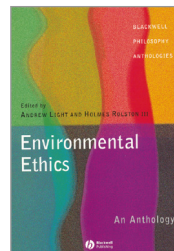
New York University; Colorado State University

Bringing together seminal writings on the central questions in environmental ethics, this book comprises both classic and cutting-edge essays on subjects ranging from the welfare of animals versus ecosystems to theories of the intrinsic value of nature.



SERIES: BLACKWELL PHILOSOPHY ANTHOLOGIES

568 PAGES - 2002 / 0-631-22293-6 [ISBN13: 978-0-631-22293-4] HB / 0-631-22294-4 [ISBN13: 978-0-631-22294-1] PB



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#### American Environmental History

Edited by LOUIS S. WARREN



SERIES: BLACKWELL READERS IN AMERICAN SOCIAL AND CULTURAL HISTORY / SERIES EDITOR: JACQUELINE JONES

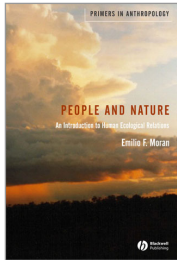
384 PAGES - 2002 / 0-631-22863-2 [ISBN13: 978-0-631-22863-9] HB / 0-631-22864-0 [ISBN13: 978-0-631-22864-6] PB

#### The Student's Companion to Geography, Second Edition

Edited by ALASDAIR ROGERS & HEATHER A. VILES



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## People and Nature

An Introduction to Human Ecological Relations

**EMILIO F. MORAN**

Indiana University

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*"Vintage Emilio Moran! A highly readable, well grounded and insightful stock-taking of human environmental relations; a perspective that will be highly valued by both students and others concerned with an enlightened view of how our species manages or mismanages its habitat."*

DANIEL G. BATES, HUNTER COLLEGE, CUNY, AND EDITOR, HUMAN ECOLOGY

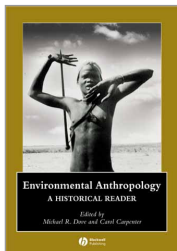


**SERIES:** PRIMERS IN ANTHROPOLOGY

232 PAGES - **2005**

1-4051-0571-2 [ISBN13: 978-1-4051-0571-2] HB

1-4051-0572-0 [ISBN13: 978-1-4051-0572-9] PB



## The Future of Environmental Criticism

Environmental Crisis and Literary Imagination

**LAWRENCE BUELL**

Harvard University

Written by one of the world's leading theorists in ecocriticism, this manifesto provides a critical summary of the ecocritical movement.

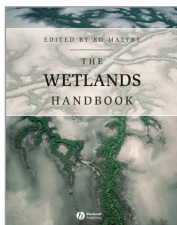
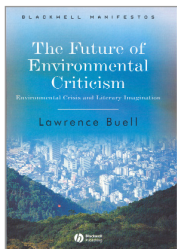
- ☑ Traces the history of the ecocritical movement from its roots in the 1970s through to its diversification and proliferation today.
- ☑ Takes account of different ecocritical positions and directions.
- ☑ Describes major tensions within ecocriticism and addresses major criticisms of the movement.
- ☑ Looks to the future of ecocriticism, proposing that discourses of the environment should become a permanent part of literary and cultural studies.

**SERIES:** BLACKWELL MANIFESTOS

208 PAGES - **2005**

1-4051-2475-X [ISBN13: 978-1-4051-2475-1] HB

1-4051-2476-8 [ISBN13: 978-1-4051-2476-8] PB



**NEW IN 2007**

## Environmental Anthropology

A Historical Reader

**Edited by MICHAEL R. DOVE & CAROL CARPENTER**

Both Yale University

This collection of historically significant readings, dating from early in the twentieth century up to the present, explores the cross-cultural study of relations between people and their environment. These selections, along with extensive commentary by the volume's editors, offer a unique perspective on current interest in cross-cultural environmental relations.



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**SERIES EDITOR:** PARKER SHIPTON

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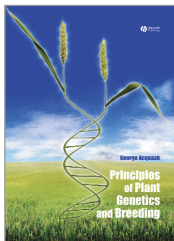
Langston University

Over 25 plant breeders share their professional experiences in this text which introduces both classical and molecular tools for plant breeding.

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NEW IN 2007

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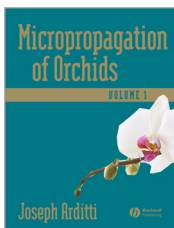
JOSEPH ARDITTI

University of California, Irvine

The second edition of this classic reference work provides a detailed collection of procedures and methods for multiplying orchids, including organ, tissue, and cell culture techniques in vitro.

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## Vegetation Ecology

Edited by EDDY VAN DER MAAREL

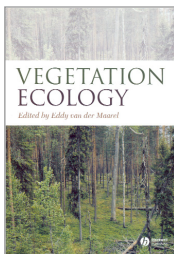
University of Groningen

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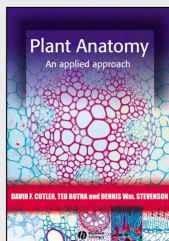
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An Applied Approach

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- ❑ Exercises for the laboratory are also included on the CD-ROM making this work an indispensable resource for lectures and laboratory classes.
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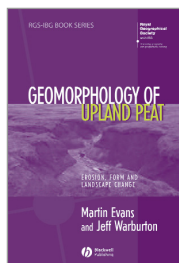
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OTTOLINE LEYSER & STEPHEN DAY



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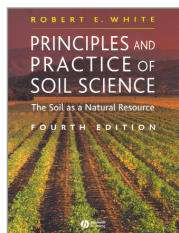
Erosion, Form and Landscape Change

MARTIN EVANS &amp; JEFF WARBURTON

University of Manchester; University of Durham

Contains a detailed synthesis of existing literature on peat erosion, as well as new research ideas and data from two leading experts in the field. The book is highly illustrated with photographs and original drawings. While much of the research focuses on upland mires in the UK, the novel approaches and techniques presented in this volume will be of great interest and benefit to those working in the context of organic sediments in other environments.

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NEW IN 2007

## Geochemical Sediments and Landscapes

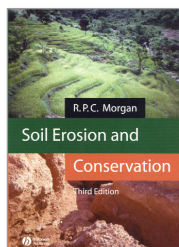
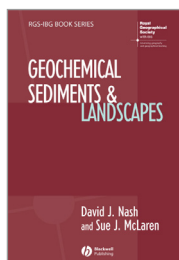
Edited by DAVID J. NASH &amp; SUE J. MCLAREN

University of Brighton; University of Leicester

Internationally recognised experts offer a state-of-the-art review of terrestrial geochemical sedimentology. The volume covers the full range of sediments from duricrusts (calcrete, laterite and silcrete) to deposits precipitated in various spring, lake, cave and near-coastal environments.

Each chapter summarises the main characteristics of the sediments: morphological, chemical and mineralogical. Distribution, mechanisms of formation or accumulation, paleo-environmental significance and relationships to other terrestrial geochemical sediments are also addressed.

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## Soil Erosion and Conservation

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R.P.C MORGAN

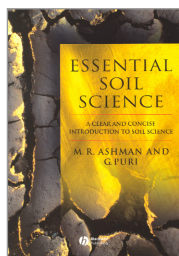
Cranfield University

*"An... admirable text built on the author's 35 years of research and teaching... I strongly recommend it."*

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- ☑ Emphasis on the applications of soil science to the solution of practical problems in soil and land management
- ☑ Real world examples drawn from the author's international experience in the field
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## Essential Soil Science

A Clear and Concise Introduction to Soil Science

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Formerly at IACR, Rothamsted; National Assembly for Wales Environment Division

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**NEW**

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Evolution, Physiology, and Molecular Biology

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- ▣ Contains articles by premier researchers, including an account by Carl Woese of his original discovery of the Archaea and the initially mixed reactions of the scientific community.
- ▣ Spans archaeal evolution, biology and molecular and cellular biology.
- ▣ Addresses the emerging significance of the Archaea within a broader scientific and technological context, and includes accounts of cutting-edge research developments.

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**NEW**

# Introduction to Geomicrobiology

**KURT KONHAUSER**

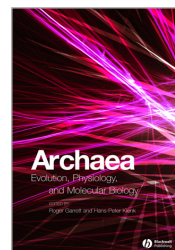
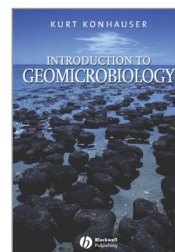
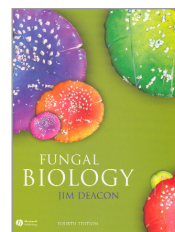
University of Alberta

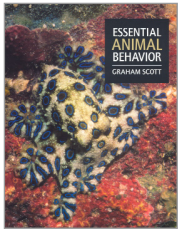
Explores how microbial life has affected Earth's environment through time. It shows how the ubiquity of microorganisms, their high chemical reactivity, and their metabolic diversity make them a significant factor controlling the chemical composition of our planet.

Topics covered include:

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- ▣ Microbiological mineral formation and fossilization
- ▣ The function of microorganisms in mineral dissolution and oxidation, and the industrial and environmental ramifications of these processes
- ▣ Elemental cycling in biofilms, formation of microbialites, and sediment diagenesis
- ▣ The events that led to the emergence of life, evolution of metabolic processes, and the diversification of the biosphere.

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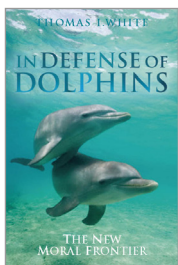
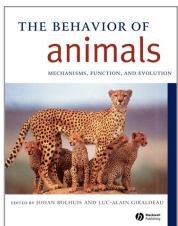
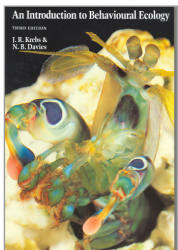
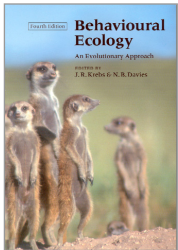
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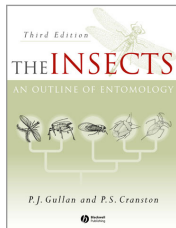
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## Insect Biodiversity

Science and Society

Edited by **ROBERT FOOTITT & PETER ADLER**

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An essential resource for naturalists and conservation workers, this book brings together leading scientific experts to explore why insect biodiversity matters. Case studies highlight how insect biodiversity can help meet the needs of a rapidly expanding human population, and examine the consequences that an increased loss of insect species will have on the world.

The book concludes that a better understanding of the biology and ecology of insects is the only way to sustainably manage ecosystems in an ever changing global environment.

Includes contributions from: Hugh Danks, Terry Erwin, Peter Cranston, Quentin Wheeler, John Lasalle, Michael Samways, Geoffrey Scudder, John Morse, Michael Pogue and May Berenbaum.

352 PAGES - **NOVEMBER 2007**

1-4051-5142-0 (ISBN13: 978-1-4051-5142-9) HB

NEW IN 2007

## Behavioral Ecology of Insect Parasitoids

From Theoretical Approaches to Field Applications

Edited by **ERIC WAJNBERG, CARLOS BERNSTEIN & JACQUES VAN ALPHEN**

*INRA, France; University Claude Bernard-Lyon I; Leiden University*

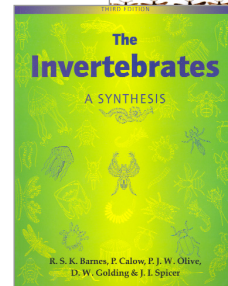
Outlining the current issues, research directions and methods, this book examines the optimal behaviors that parasitoids exhibit in order to maximize long term offspring production.

- ☑ Defines parasitoid behavioral ecology and its application in other fields.
- ☑ Reviews topical issues, such as cutting edge research on multi-trophic interactions.
- ☑ Includes helpful case studies and statistical tools.
- ☑ An essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs.

Includes contributions from: Ian Hardy, Luc-Alain Giraldeau, George Heimpel, Monika Hilker, Charles Godfray, Mark Jarvis, Nick Mills, Bernie Roitberg, Patsy Haccou and Richard Green.

396 PAGES - **NOVEMBER 2007**

1-4051-6347-X (ISBN13: 978-1-4051-6347-7) HB



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A Synthesis

Third Edition

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The new edition, while retaining its accessible style and reader-friendly organization, is completely updated and boasts a new glossary and updated references. The chapter on genome evolution has been significantly expanded in order to cover genomes of model organisms sequenced since the completion of the first edition, and organelle genome development.



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NEW

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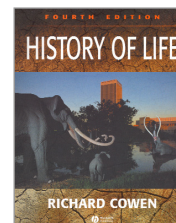
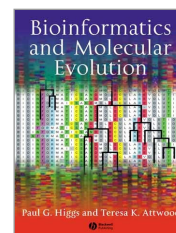
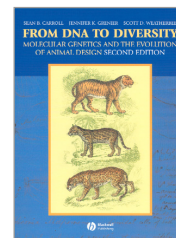
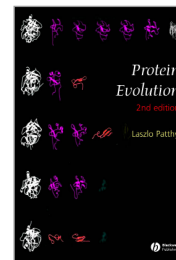
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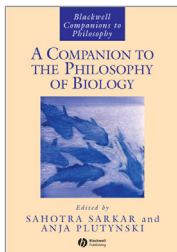
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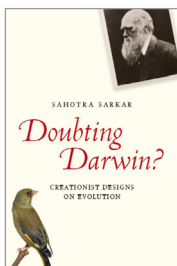
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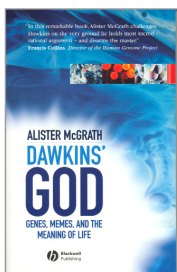
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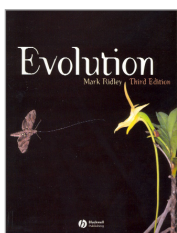
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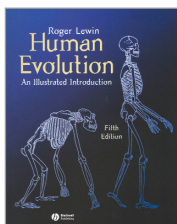
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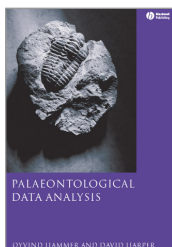
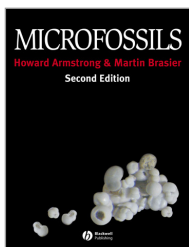


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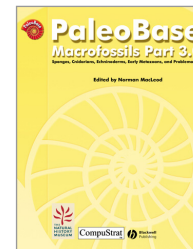
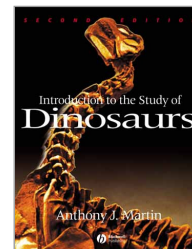
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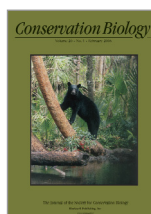
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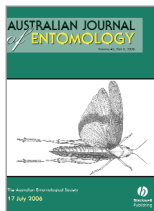


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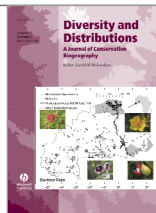
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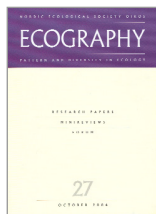
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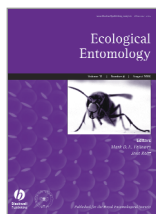
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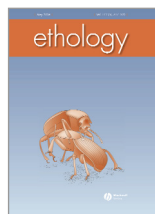


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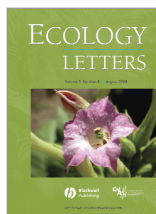
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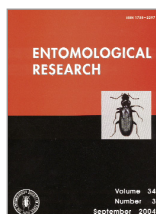
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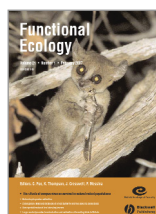
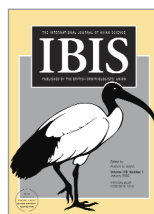
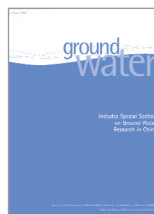
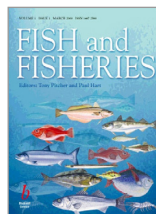
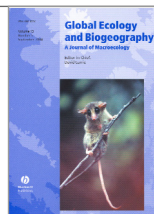
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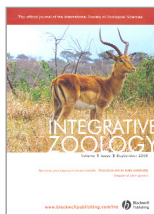


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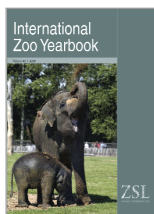


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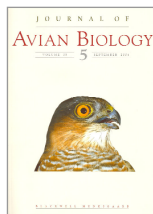
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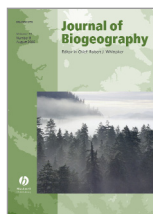
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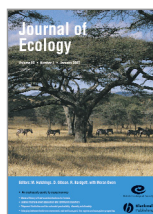
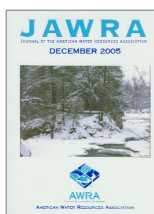


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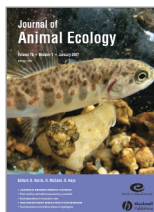


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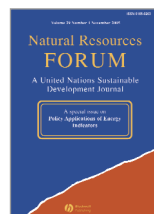
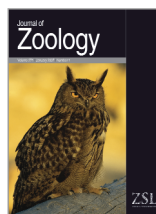
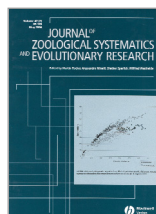
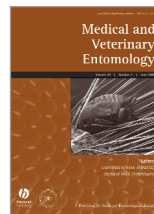
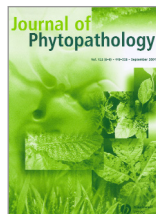
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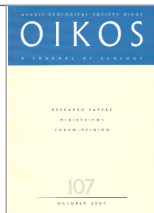
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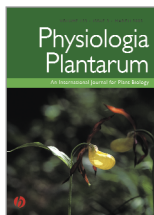
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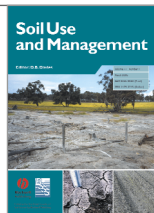


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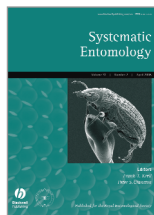
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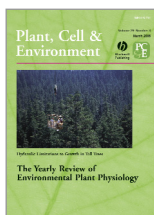


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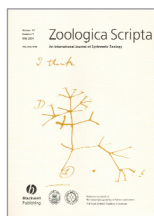
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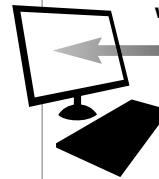
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