

CAMBRIDGE

# Ecology, Conservation and Evolution



Ecology and  
Conservation

Entomology and  
Parasitology

Natural Resource  
Management

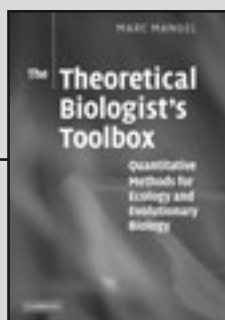
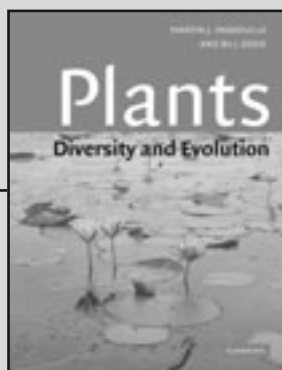
Plant Science and  
Mycology

Evolution

Zoology and Animal  
Behaviour

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## Message from the Press Editors

We are delighted to present the new Ecology, Conservation and Evolution catalogue from Cambridge University Press, announcing our new titles in conservation biology, natural resource management, biological and evolutionary anthropology, entomology and much more. Our range covers undergraduate and graduate textbooks and academic monographs from some of the best writers in science today.

Highlights include: *Ecological Census Techniques* 2nd edition by William J. Sutherland; *Plants: Diversity and Evolution* by Martin Ingrouille and Bill Eddie; *The Theoretical Biologist's Toolbox* by Marc Mangel.

The Press Editors for this prestigious part of our publishing programme are Dominic Lewis and Jacqueline Garget (Cambridge, UK). We are very keen to continue to expand our list and look forward to hearing from you if you have ideas for new books or wish to comment on our present publications. We hope to meet you at major meetings and on campus visits throughout 2007 and 2008.

All the very best,

Dominic Lewis (Ecology, Conservation and Evolution);  
dlewis@cambridge.org +44 1223 326206

Jacqueline Garget (Plant Sciences, Entomology, Zoology and Natural Resource Management)  
jgarget@cambridge.org +44 1223 325766



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## Useful contacts

**Book proposals:** Dominic Lewis (dlewis@cambridge.org), Jacqueline Garget (jgarget@cambridge.org)  
**Further information about Ecology, Conservation and Evolution titles:** Jayne Peake (jpeake@cambridge.org)  
**All other enquiries:** phone +44 (0) 1223 312393 or email [information@cambridge.org](mailto:information@cambridge.org)

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# Ecology and Conservation

## KEY SERIES

### **Ecology, Biodiversity, and Conservation**

#### Series Editors:

#### Professor Michael Usher

University of Stirling, and formerly  
Scottish Natural Heritage

#### Dr Denis Saunders

Formerly CSIRO Division of Sustainable  
Ecosystems, Canberra

#### Dr Andrew Dobson

Princeton University

#### Dr Robert Peet

University of North Carolina, Chapel Hill

### **Invertebrate Conservation and Agricultural Ecosystems**

#### T. R. New

La Trobe University, Victoria

This account deals with problems and approaches to invertebrate conservation in highly managed agricultural ecosystems, and how to promote biodiversity without compromising agricultural production. It draws attention to the significant functional importance of invertebrates in agriculture and in ecosystem functions, and the importance of conserving them in the wider landscape.

#### *Ecology, Biodiversity and Conservation*

- 2005 228 x 152 mm 368pp  
68 line diagrams 54 tables
- 978 0 521 82503 0 (0 521 82503 2)  
Hardback £70.00
- 978 0 521 53201 3 (0 521 53201 9)  
Paperback £35.00

### **The Ecology of Phytoplankton**

#### C. S. Reynolds

Communities of microscopic plant life, or phytoplankton, dominate the Earth's aquatic ecosystems. This important new book by Colin Reynolds covers the adaptations, physiology and population dynamics of phytoplankton communities in lakes and rivers and oceans. It provides basic information on composition, morphology and physiology of the main phyletic groups represented in marine and freshwater systems and in addition reviews recent advances in community ecology, developing an appreciation of assembly processes, co-existence and competition, disturbance and diversity. Although focussed on one group of organisms, the book develops many concepts relevant to ecology in the broadest sense, and as such will appeal to graduate students and researchers in ecology, limnology and oceanography.

#### *Ecology, Biodiversity and Conservation*

- 2006 246 x 189 mm 550pp  
132 line diagrams 5 half-tones 37 tables
- 978 0 521 84413 0 (0 521 84413 4)  
Hardback £90.00
- 978 0 521 60519 9 (0 521 60519 9)  
Paperback £45.00

### **Ecology of Populations**

#### Esa Ranta

University of Helsinki

#### Per Lundberg

Lunds Universitet, Sweden

#### and Veijo Kaitala

University of Jyväskylä, Finland

This book deals with basic spatial population processes, detailing how a number of fundamental problems relating to the abundance and distribution of organisms can be addressed, for example the effect of environmental variability. It aims to bring together analytical population dynamics, random processes and community structure into a common framework.

#### *Ecology, Biodiversity and Conservation*

- 2006 228 x 152 mm 388pp  
147 line diagrams 2 tables
- 978 0 521 85435 1 (0 521 85435 0)  
Hardback £75.00
- 978 0 521 67033 3 (0 521 67033 0)  
Paperback £38.00

### **Nonequilibrium Ecology**

#### Klaus Rohde

University of New England, Australia

The idea that nature is in balance and is only occasionally disrupted by external influences is a central concept in biology. However, much evidence contradicts this assumption. Using evidence from fossil history, studies of plant and animal populations and communities, this book shows that nonequilibrium is more widespread than equilibrium.

#### *Ecology, Biodiversity and Conservation*

- 2006 228 x 152 mm 236pp  
53 line diagrams
- 978 0 521 85434 4 (0 521 85434 2)  
Hardback £70.00
- 978 0 521 67455 3 (0 521 67455 7)  
Paperback £35.00

### **Risks and Decisions for Conservation and Environmental Management**

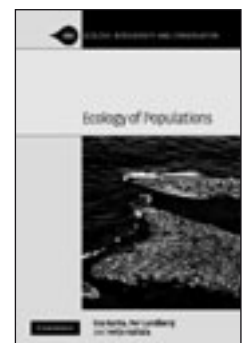
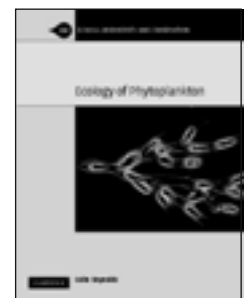
#### Mark Burgman

University of Melbourne

Describes how to conduct a complete environmental risk assessment for students, researchers and professionals in ecology, conservation and resource management.

#### *Ecology, Biodiversity and Conservation*

- 2005 228 x 152 mm 500pp  
111 line diagrams 1 half-tone 50 tables
- 978 0 521 54301 9 (0 521 54301 0)  
Paperback £35.00



## KEY SERIES

**Conservation Biology**

Series Editors: Professor Guy Cowlshaw

Institute of Zoology, Zoological Society of London

**Rosie Woodroffe**  
University of California, Davis

**John Gittleman**  
University of Virginia

**Michael Samways**  
University of Stellenbosch, South Africa

**Coral Reef Conservation**

Edited by Isabelle M. Côté  
Simon Fraser University, Vancouver  
and John D. Reynolds  
Simon Fraser University, Vancouver

Coral reefs are havens of biodiversity in the oceans, vulnerable both to local threats that include over-fishing, pollution and physical damage, and to global problems, such as climate change. This book summarises our current state of knowledge about the status of reefs, the problems they face, and potential solutions.

- Conservation Biology, 13**
- 2006 228 x 152 mm 592pp  
84 line diagrams 70 half-tones  
16 colour plates 29 tables
  - 978 0 521 85536 5 (0 521 85536 5)  
Hardback £75.00
  - 978 0 521 67145 3 (0 521 67145 0)  
Paperback £38.00
  - **Publication August 2006**

**Phylogeny and Conservation**

Edited by Andrew Purvis  
Imperial College of Science, Technology and Medicine, London

**John L. Gittleman**  
University of Georgia  
and **Thomas Brooks**  
Conservation International, Washington DC

Considers how phylogeny can help understand the processes that have generated today's diversity and the processes that now threaten it.

- Conservation Biology, 10**
- 2005 228 x 152 mm 446pp  
32 line diagrams 1 half-tone  
2 colour plates 30 tables
  - 978 0 521 82502 3 (0 521 82502 4)  
Hardback £70.00
  - 978 0 521 53200 6 (0 521 53200 0)  
Paperback £35.00

**Top Predators in Marine Ecosystems Their Role in Monitoring and Management**

Edited by I. L. Boyd  
University of St Andrews, Scotland  
and S. Wanless  
NERC Centre for Ecology and Hydrology, UK

**C. J. Camphuysen**  
Royal Netherlands Institute for Sea Research  
Seals, seabirds, whales and dolphins are at the top of marine food chains: studying their ecology can help identify and monitor changes in wider marine ecosystems. This book examines our current understanding of marine predator ecology and investigates how it can be used in management and conservation of marine habitats.

- Conservation Biology, 12**
- 2006 228 x 152 mm 392pp  
81 line diagrams 4 half-tones 9 tables
  - 978 0 521 61256 2 (0 521 61256 X)  
Paperback £38.00

**Connectivity Conservation**

Edited by Kevin Crooks  
Colorado State University  
and M. Sanjayan  
The Nature Conservancy, Virginia

*Connectivity Conservation* provides a synthesis on the current status of connectivity conservation science. It shows challenges involved in applying existing knowledge to real-world examples and highlights areas for further study. Containing contributions from leading scientists and practitioners, this volume is essential reading for anyone working in conservation and natural resource management.

- Conservation Biology, 14**
- 2006 228 x 152 mm 736pp  
74 line diagrams 18 half-tones 24 tables
  - 978 0 521 85706 2 (0 521 85706 6)  
Hardback c. £90.00
  - 978 0 521 67381 5 (0 521 67381 X)  
Paperback c. £45.00
  - **Publication November 2006**

**Large Herbivore Ecology, Ecosystem Dynamics and Conservation**

Edited by Kjell Danell  
Swedish University of Agricultural Sciences  
**Roger Bergström**  
The Forrestry Research Institute of Sweden

**Patrick Duncan**  
Centre National de la Recherche Scientifique (CNRS), Paris

and **John Pastor**  
University of Minnesota, Duluth

Some large herbivore species are rare, others are over-abundant. Managing herbivore populations and their habitats is an important, urgent and sometimes controversial issue, requiring scientifically-based action plans and models. This book provides an up-to-date background to the science behind the management of large herbivores, for students, researchers and conservation managers.

- Conservation Biology, 11**
- 2006 228 x 152 mm 522pp  
74 line diagrams 2 half-tones 17 tables
  - 978 0 521 83005 8 (0 521 83005 2)  
Hardback £75.00
  - 978 0 521 53687 5 (0 521 53687 1)  
Paperback £38.00

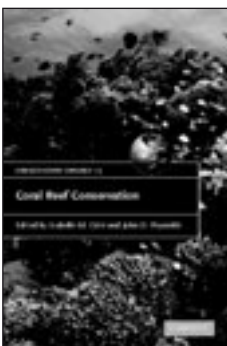
**People and Wildlife, Conflict or Co-existence?**

Edited by Rosie Woodroffe  
University of California, Davis

**Simon Thirgood**  
Zoological Society, Frankfurt  
and **Alan Rabinowitz**  
Wildlife Conservation Society, New York

This book discusses whether, and how, co-existence of people and endangered wildlife may be encouraged.

- Conservation Biology, 9**
- 2005 228 x 152 mm 516pp  
32 line diagrams 30 tables
  - 978 0 521 82505 4 (0 521 82505 9)  
Hardback £75.00
  - 978 0 521 53203 7 (0 521 53203 5)  
Paperback £38.00



## KEY SERIES

**Ecological Reviews**

**Series Editors: Professor Nigel Webb**  
NERC Centre for Ecology and Hydrology, Dorset, UK

**Professor T. Hefin Jones**  
Cardiff University, UK

**Professor James H. Brown**  
University of New Mexico, USA

**Professor Richard Hobbs**  
Murdoch University, Australia

**Professor Louise Vet**  
The Netherlands Institute of Ecology

## FORTHCOMING

**Island Colonization**

**Ian Thornton**

**Edited by Tim New**

La Trobe University, Victoria

A broad review of island colonization, specifically how animal and plant communities establish, bringing together succession models and general principles and case studies. A personal and readable account, which will interest ecologists and conservation biologists throughout the world.

**Ecological Reviews**

- 2007 247 x 174 mm 292pp  
52 line diagrams 31 tables
- 978 0 521 85484 9 (0 521 85484 9)  
Hardback
- **Publication April 2007**

**Biological Diversity and Function in Soils**

**Edited by Richard Bardgett**

Lancaster University

**Michael Usher**  
University of Stirling

**and David Hopkins**  
University of Stirling

The dynamic nature of current research into soil biodiversity is reflected in this excellent volume.

**Ecological Reviews**

- 2005 247 x 174 mm 428pp  
78 line diagrams 9 half-tones
- 978 0 521 84709 4 (0 521 84709 5)  
Hardback £75.00
- 978 0 521 60987 6 (0 521 60987 9)  
Paperback £38.00

**Biotic Interactions in the Tropics**

**Their Role in the Maintenance of Species Diversity**

**Edited by David Burslem**

University of Aberdeen

**Michelle Pinard**

University of Aberdeen

**and Sue Hartley**

University of Sussex

A comprehensive review that deals with Old and New World tropics and taxa at all trophic levels.

**Ecological Reviews**

- 2005 247 x 174 mm 580pp  
78 line diagrams 7 half-tones
- 978 0 521 60985 2 (0 521 60985 2)  
Paperback £43.00
- 978 0 521 84707 0 (0 521 84707 9)  
Hardback £85.00

## SERIES

**Cambridge Studies in Landscape Ecology**

**Series Editors: Professor John Wiens**

The Nature Conservancy, Washington D.C.

**Dr Lenore Fahrig**

Carleton University

**Dr Bruce Milne**

University of New Mexico

**Dr Peter Dennis**

The Macaulay Institute, Aberdeen

**Dr Richard Hobbs**

Murdoch University, Western Australia

**Dr Joan Nassauer**

University of Michigan

**Key Topics in Landscape Ecology**

**Key Issues in Theory, Methodology, and Applications**

**Edited by Jianguo Wu**

Arizona State University

**and Richard Hobbs**

Murdoch University, Western Australia

This volume brings together an international panel of experts to provide an in-depth survey of the fundamental theoretical and methodological issues in landscape ecology, providing examples from around the world.

**Cambridge Studies in Landscape Ecology**

- 2006 247 x 174 mm 400pp  
37 line diagrams 3 half-tones 31 tables
- 978 0 521 85094 0 (0 521 85094 0)  
Hardback c. £70.00
- 978 0 521 61644 7 (0 521 61644 1)  
Paperback c. £35.00
- **Publication December 2006**

## GRADUATE TEXTBOOK

**Issues and Perspectives in Landscape Ecology**

**Edited by John A. Wiens**

The Nature Conservancy, Washington DC

**and Michael R. Moss**

University of Guelph, Ontario

A series of essays which address a wide array of past, current, and future issues in landscape ecology.

**Contents:** Preface; Part I. Introductory Perspectives: 1. When is a landscape perspective important?; 2. Incorporating geographical (biophysical) principles in studies of landscape systems; Part II. Theory, Experiments, and Models in Landscape Ecology: 3. Theory in landscape ecology; 4. Hierarchy theory and the landscape ... level? Or, words do matter; 5. Equilibrium versus non-equilibrium landscapes; 6. Disturbances and landscapes: the little things count; 7. Scale and an organism-centric focus for studying interspecific interactions in landscapes; 8. The role of experiments in landscape ecology; 9. Spatial modeling in landscape ecology; 10. the promise of landscape modeling: successes, failures, and evolution; Part III. Landscape Patterns: 11. Landscape pattern: context and processes; 12. The gradient concept of landscape structure; 13. Perspectives on the use of land-cover data for ecological investigations; Part IV. Landscape Dynamics on Multiple Scales: 14. Landscape sensitivity and timescales of landscape change; 15. The time dimension in landscape ecology: cultural soils and spatial pattern in early landscapes; 16. The legacy of landscape history: the role of paleoecological analysis; 17. Landscape ecology and global change; Part V. Applications of Landscape Ecology: 18. Landscape ecology as the broker between information supply and management application, with special reference to ecological land classification for water management; 19. Farmlands and farming for nature; 20. Landscape ecology and forest management; 21. Landscape ecology and wildlife management; 22. Restoration ecology and landscape ecology; 23. Conservation planning at the landscape scale; 24. Landscape conservation: a new paradigm for the conservation of biodiversity; 25. The 'why' and 'so what' of riverine landscapes; Part VI. Cultural Perspectives and Landscape Planning: 26. The nature of lowland rivers: a search for river identity; 27. Using cultural knowledge to make new landscape patterns; 28. The critical divide: landscape policy and its implementation; 29. Landscape ecology: principles of cognition and the political-economic dimension; 30. Integration of landscape



ecology and landscape architecture: an evolutionary and reciprocal process; 31. Landscape ecology in land-use planning; Part VII. Retrospect and Prospect: 32. The land unit as a black box: a Pandora's Box?; 33. Towards a transdisciplinary landscape science; 34. Toward fostering recognition of landscape ecology; 35. Toward a unified landscape ecology; Index.

**Cambridge Studies in Landscape Ecology**

- 2005 247 x 174 mm 404pp  
31 line diagrams 5 tables
- 978 0 521 83053 9 (0 521 83053 2)  
Hardback £75.00
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Paperback £38.00

**GRADUATE TEXTBOOK**

**Transport Processes in Nature**

**Propagation of Ecological Influences Through Environmental Space**

**William A. Reiners**

University of Wyoming

**and Kenneth L. Driese**

University of Wyoming

A conceptual framework for the study and understanding of the propagation of ecological influences in nature.

**Contents:** Part I: 1. Flows and movements in ecology; 2. Causes, mechanisms and consequences of propagating influences; 3. How do we see nature?; 4. Representing and predicting propagation phenomena: modeling in explicit-realistic space; Part II: 5. Introduction to Part II; 6. Diffusion; 7. Colluvial transport; 8. Wind transport; 9. Fire; 10. Fluvial transport; 11. Animal movement; 12. Electromagnetic radiation; 13. The propagation of sound; References; Index.

**Cambridge Studies in Landscape Ecology**

- 2004 247 x 174 mm 314pp  
77 line diagrams 27 half-tones 6 tables
- 978 0 521 80049 5 (0 521 80049 8)  
Hardback + CD-ROM £75.00
- 978 0 521 80484 4 (0 521 80484 1)  
Paperback + CD-ROM £38.00

**Ecological Networks and Greenways**

**Concept, Design, Implementation**

**Edited by Rob H. G. Jongman**

Alterra Green World Research

**and Gloria Pungetti**

University of Reading

Combines theoretical concepts of landscape ecology with the practice of landscape planning.

**Cambridge Studies in Landscape Ecology**

- 2004 247 x 174 mm 368pp  
101 line diagrams 9 half-tones 34 tables
- 978 0 521 82776 8 (0 521 82776 0)  
Hardback £80.00
- 978 0 521 53502 1 (0 521 53502 6)  
Paperback £35.00

**SERIES**

**Cambridge Studies in Adaptive Dynamics**

**Series Editors: Dr Ulf Dieckmann**

International Institute for Applied Systems Analysis, Austria

**Richard Law**

University of York

**Professor Hans Metz**

Rijksuniversiteit Leiden, The Netherlands

**Evolutionary Conservation Biology**

**Edited by Régis Ferrière**

Ecole Normale Supérieure, Paris

**Ulf Dieckmann**

International Institute for Applied Systems Analysis, Austria

**and Denis Couvet**

Muséum National d'Histoire Naturelle, Paris

Presents an introduction to the new area of evolutionary conservation biology.

**Cambridge Studies in Adaptive Dynamics, 4**

- 2004 228 x 152 mm 446pp  
121 line diagrams 8 tables
- 978 0 521 82700 3 (0 521 82700 0)  
Hardback £60.00

**Adaptive Speciation**

**Edited by Ulf Dieckmann**

International Institute for Applied Systems Analysis, Austria

**Michael Doebeli**

University of British Columbia, Vancouver

**Johan A. J. Metz**

Rijksuniversiteit Leiden, The Netherlands

**and Diethard Tautz**

Universität zu Köln

*Adaptive Speciation* clarifies how adaptive processes, rather than geographic isolation, can cause speciation.

**Cambridge Studies in Adaptive Dynamics, 3**

- 2004 228 x 152 mm 476pp  
110 line diagrams 12 colour plates 9 tables
- 978 0 521 82842 0 (0 521 82842 2)  
Hardback £65.00

**KEY REFERENCE**

**Giant Pandas**

**Biology, Veterinary Medicine and Management**

**Edited by David Wildt**

Smithsonian National Zoological Park

**Zhang Anju**

Chengdu Research Base of Giant Panda Breeding

**Zhang Hemin**

Wildlife Conservation and Research Center for Giant Pandas

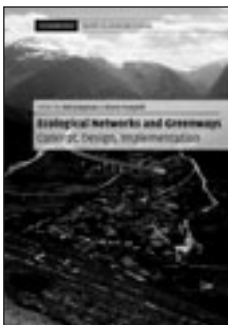
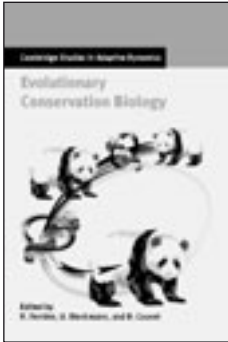
**Donald Janssen**

Zoological Society of San Diego

**and Susie Ellis**

Conservation Breeding Specialist Group

The giant panda is one of the world's most recognized animals, but until now the biology of this threatened species has been a mystery. With the environment undergoing unprecedented change at a rapid and accelerating rate, can such a highly specialized species survive? This book is the first of its kind to summarize the present state of knowledge about panda biology, encompassing topics such as reproduction, behaviour, nutrition, genetics and veterinary medicine. It also provides the latest information on veterinary management, advances in neonatal care, disease detection and prevention and the use of 'assisted breeding' to promote reproduction and preserve genetic diversity, as the females are sexually receptive for only three days per year and generally produce twins, but often lose one due to maternal neglect. This book provides the scholarly knowledge that will help conserve this treasured species in nature, while there is still time.



**Contributors:** Susie Ellis, Wenshi Pan, Zhong Xie, David Wildt, Anju Zhang, Hemin Zhang, Don Janssen, Mark Edwards, JoGayle Howard Guangxin He, Jianqiu Yu, Guiquan Zhong, Rongping Wei, Eric Miler, Meg Sutherland-Smith, Jianqiu Yu, Desheng Li, Cheng Lin Zhang, Lyndsay G. Phillips, Daming Hu, Chunxiang Rongping Tang, Rebecca Snyder, Wei Zhong, Mabel Lam, Robert Sims, Xuanzhen Liu, Zhihe Zhang, Desheng Li, Yan Huang, Meijia Zhang, Rong Hou, Zhiyong Ye, Guanghan Li, Jinguo Zhang, Shiqiang Huang, Rebecca Spindler, Karen J. Steinman, Steven L. Monfort, Laura McGeehan, David C. Kersey, Fernando Gual-Sil, Pengyan Wang, Tatsuko Nakao and Nancy M. Czekala, Barbara S. Durrant, Mary Ann Olson, Autumn Anderson, Yan Huang, Shan Sun, Fujun Shen, Zhong Xie, Ya-Ping Zhang, Oliver A. Ryder, Stephen J. O'Brien, Ronald S. Swaisgood, Xiaoping Zhou Megan A. Owen, Nathalie Mauroo, Kathy Hawk, Jason C. L. Tang, Janet Hawes, Chunxiang Tang, Desheng Li, Daming Hu, Mollie A. Bloomsmith, Terry L. Maple, Patrick Morris, Mark Greenberg, Lucy Spelman, I. Kati Loeffler, Richard J. Montali, Bruce Rideout, Thomas B. Hildebrandt, Janine L. Brown, Frank Goritz, Andreas Ochs, Thomas W. Baker, Chengdong Wang, Rong Hou, Li Lou, Lisong Fei, Qiang Wang, Rong Hou, Jishan Wang, Rita McManamon, Yan Huang, Pengyan Wang, Barbara Durrant, Jonathan D. Ballou, Phillip S. Miller, Zhong Xie, Shiquang Huang, Shan Sun, Victor David, Stephen J. O'Brien, Kathy Traylor-Holzer, U. S. Seal, Xiaoping Lu, Mabel Lam

– 2006 228 x 152 mm 610pp  
37 line diagrams 53 half-tones  
16 colour plates  
– 978 0 521 83295 3 (0 521 83295 0)  
Hardback £65.00

## TEXTBOOK

### NEW EDITION

## Ecological Census Techniques

### A Handbook

Second edition

**Edited by William J. Sutherland**

University of East Anglia

Most work in ecology or conservation requires a census of the population. Experts describe the practical methods necessary for carrying out a census. The book includes the underlying theory and the practical details for plants and each group of animals, alongside the environmental measures that can be done simultaneously.

**Praise for the first edition:**

**'There are too few books like this that help students to see the broad picture of census methods and yet warn them**

**of the censusing sins listed in the last chapter of the book ... This book will assist university lecturers in teaching the methods essential to developing reliable databases for conservation and management, and for testing ecological theory.'**

Charles J. Krebs, *Trends in Ecology and Evolution*

**Contents:** Preface; 1. Planning a research programme; 2. Principles of sampling; 3. General census methods; 4. Plants; 5. Invertebrates; 6. Fish; 7. Amphibians; 8. Reptiles; 9. Birds; 10. Mammals; 11. Environmental variables; 12. The twenty commonest censusing sins; Index.

– 2006 246 x 189 mm 448pp  
66 line diagrams 19 tables  
– 978 0 521 84462 8 (0 521 84462 2)  
Hardback £65.00  
– 978 0 521 60636 3 (0 521 60636 5)  
Paperback £29.99

## Chemical Ecology of Vertebrates

**Dietland Muller-Schwarze**

State University of New York

*Chemical Ecology of Vertebrates* is the first book to focus exclusively on the chemically-mediated interactions between vertebrates including fish, amphibians, reptiles, birds and mammals, and other animals and plants. Reviewing the latest research in three core areas – pheromones (where the interactions are between members of the same species), and interspecific interactions involving allomones (where the sender benefits) and kairomones (where the receiver benefits), it pulls together information from widely scattered technical literature in many different disciplines into a coherent whole. Chapters on the environment, properties of odour signals and production and release of chemosignals set the stage for discussion of more complex behavioural topics. While the main focus is ecological, dealing with behaviour and interactions in the field, it also covers chemoreception, orientation and navigation, the development of behaviour and the practical applications of chemosignals.

– 2006 247 x 174 mm 536pp  
104 line diagrams 31 half-tones 49 tables  
– 978 0 521 36377 8 (0 521 36377 2)  
Hardback £75.00  
– **Publication September 2006**

## KEY TEXTBOOK

### NEW EDITION

## Monitoring Ecological Change

Second edition

**Ian F. Spellerberg**

Lincoln University, New Zealand

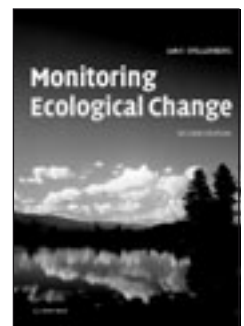
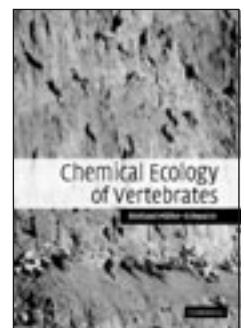
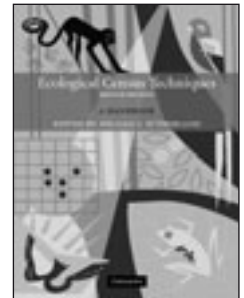
This fully revised edition offers an introduction to ecological monitoring, providing a rationale for monitoring and a practical guide to the techniques available, including many examples from monitoring programmes around the world.

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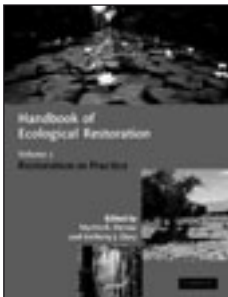
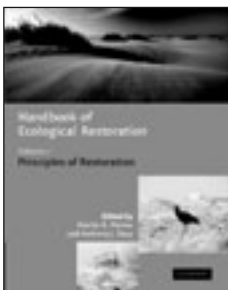
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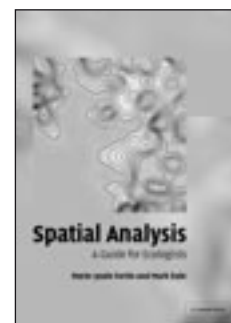
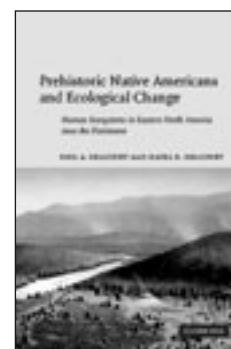
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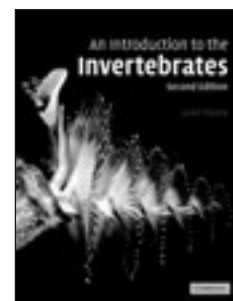
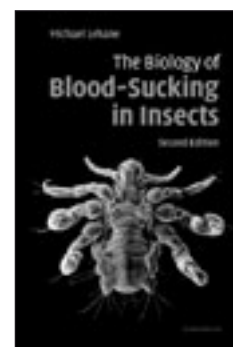
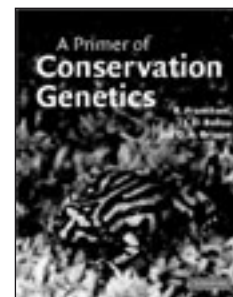
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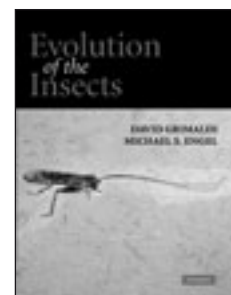
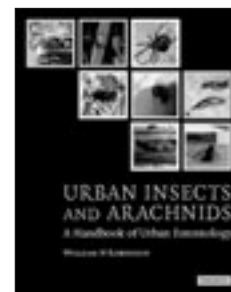
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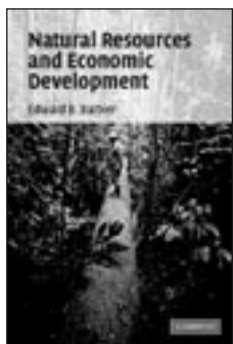
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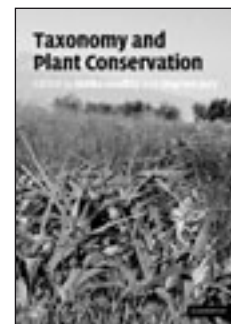
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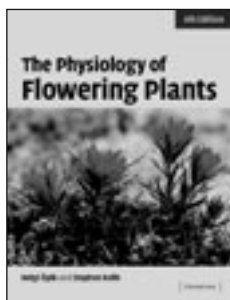
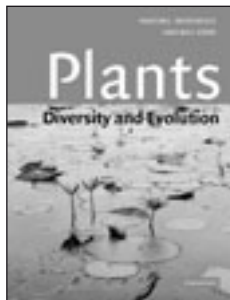
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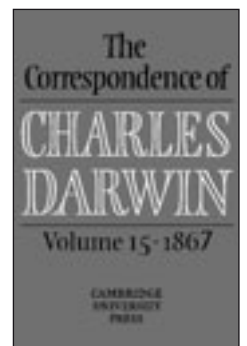
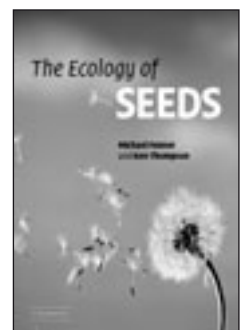
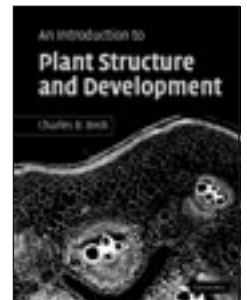
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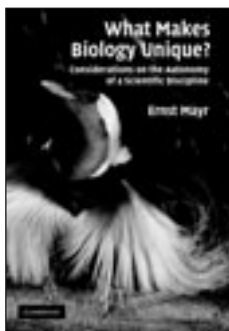
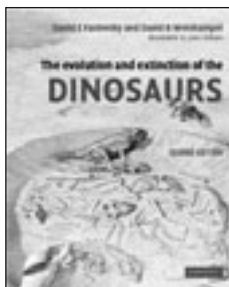
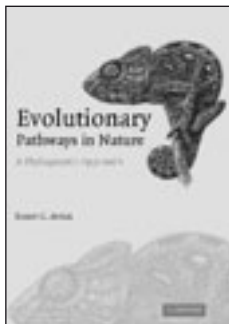
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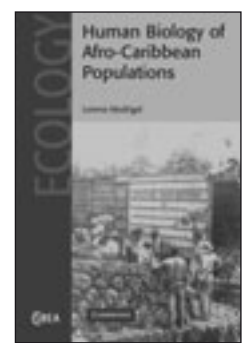
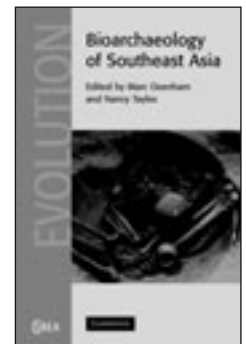
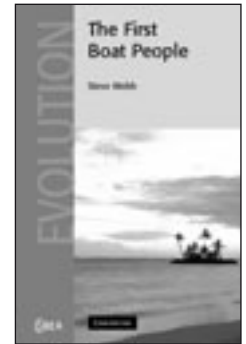
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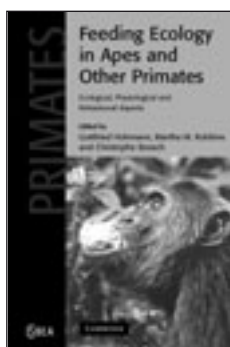
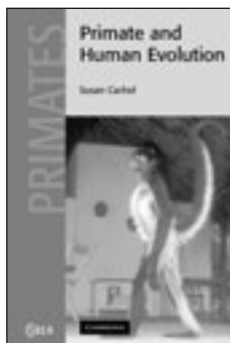
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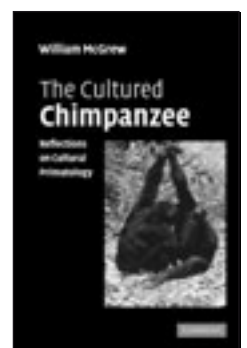
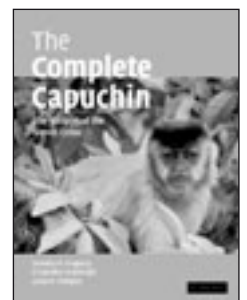
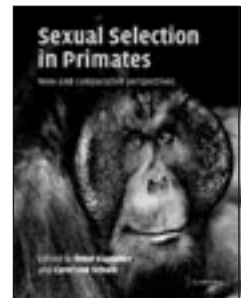
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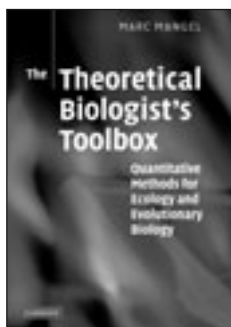
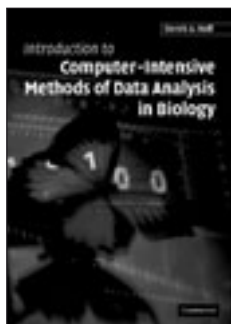
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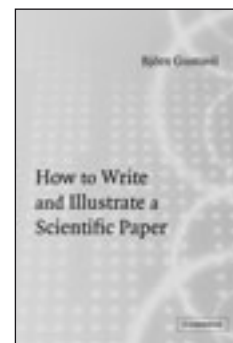
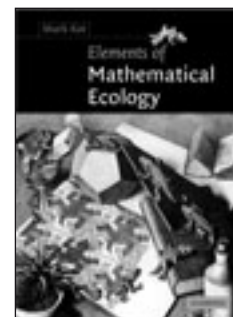
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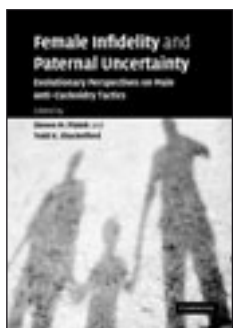
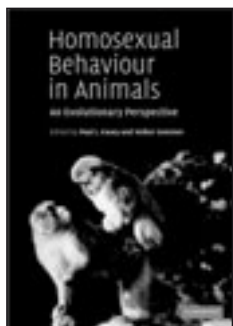
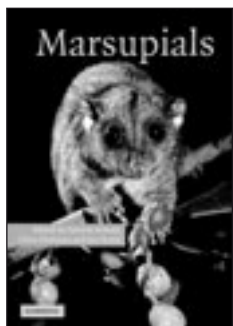
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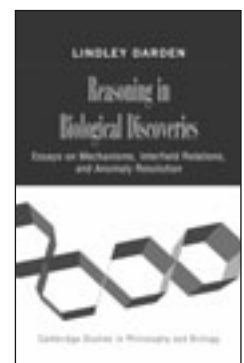
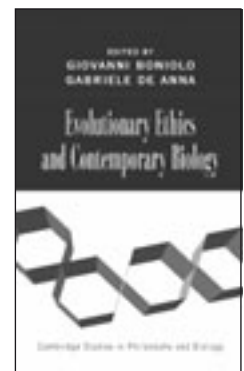
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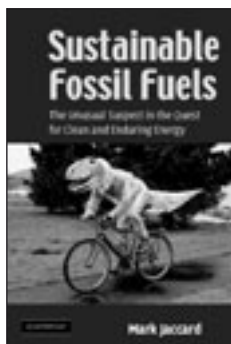


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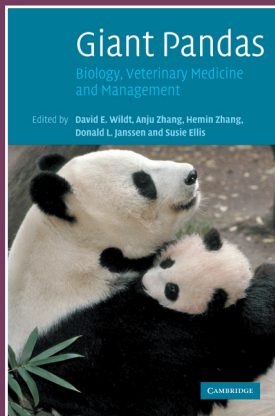
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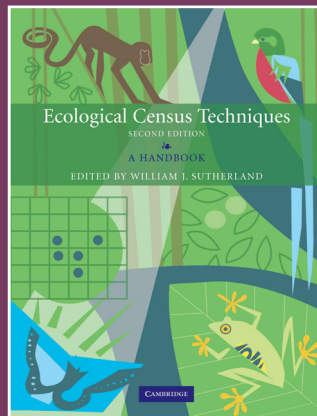
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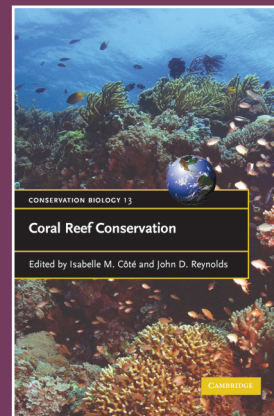
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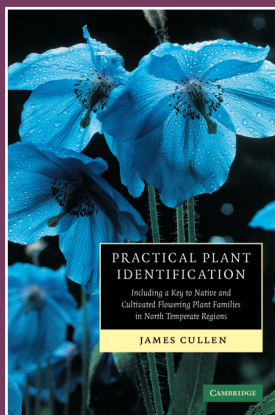
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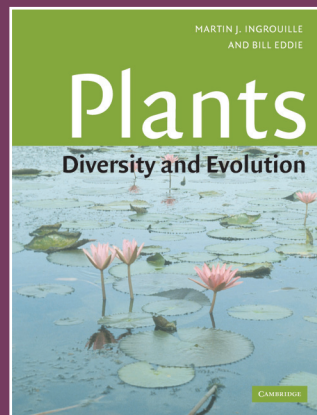
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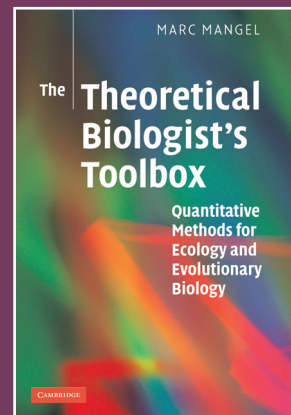
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