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KEY=FOR - FORD SKYLAR

Conservation Biology for All

OUP Oxford Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

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Oxford University Press Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

Conservation Biology

Foundations, Concepts, Applications

Springer Science & Business Media Fred Van Dyke's new textbook, Conservation Biology: Foundations, Concepts, Applications, 2nd Edition, represents a major new text for anyone interested in conservation. Drawing on his vast experience, Van Dyke's organizational clarity and readable style make this book an invaluable resource for students in conservation around the globe. Presenting key information and well-selected examples, this student-friendly volume carefully integrates the science of conservation biology with its implications for ethics, law, policy and economics.

Problem-Solving in Conservation Biology and Wildlife Management

John Wiley & Sons 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. The book presents a set of 32 exercises that are primarily new and greatly revised versions from the book's successful first edition. These exercises span 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 with software and support materials, the book is ideal for use in the field, lab, or classroom. Also available: Fundamentals of Conservation Biology, 3rd edition (2007) by Malcolm L Hunter Jr and James Gibbs, ISBN 9781405135450 Saving the Earth as a Career: Advice on Becoming a Conservation Professional (2007) by Malcolm L Hunter Jr, David

B Lindenmayer and Aram JK Calhoun, ISBN 9781405167611

Fundamentals of Conservation Biology

John Wiley & Sons In the new edition of this highly successful book, Malcolm Hunter and new co-author James Gibbs offer a thorough introduction to the fascinating and important field of conservation biology, focusing on what can be done to maintain biodiversity through management of ecosystems and populations. Starting with a succinct look at conservation and biodiversity, this 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 six hundred new references and web links to many of the organizations involved in conservation biology, striking photographs and maps. Artwork from the book is available to instructors online at www.blackwellpublishing.com/hunter and by request on CD-ROM.

Conservation Biology in Sub-Saharan Africa

Open Book Publishers Conservation Biology in Sub-Saharan Africa comprehensively explores the challenges and potential solutions to key conservation issues in Sub-Saharan Africa. Easy to read, this lucid and accessible textbook includes fifteen chapters that cover a full range of conservation topics, including threats to biodiversity, environmental laws, and protected areas management, as well as related topics such as sustainability, poverty, and human-wildlife conflict. This rich resource also includes a background discussion of what conservation biology is, a wide range of theoretical approaches to the subject, and concrete examples of conservation practice in specific African contexts. Strategies are outlined to protect biodiversity whilst promoting economic development in the region. Boxes covering specific themes written by scientists who live and work throughout the region are included in each chapter, together with recommended readings and suggested discussion topics. Each chapter also includes an extensive bibliography. Conservation Biology in Sub-Saharan Africa provides the most up-to-date study in the field. It is an essential resource, available on-line without charge, for undergraduate and graduate students, as well as a handy guide for professionals working to stop the rapid loss of biodiversity in Sub-Saharan Africa and elsewhere.

Marine Conservation Biology

The Science of Maintaining the Sea's Biodiversity

'Marine Conservation Biology' brings together leading experts from around the world to apply the lessons and thinking of conservation biology to marine issues. The contributors cover what is threatening marine biodiversity and what humans can do to recover the biological integrity of the world's oceans.

Applied Ecology and Human Dimensions in Biological Conservation

Springer This book provides both the conceptual basis and technological tools that are necessary to identify and solve problems related to biodiversity governance. The authors discuss intriguing evolutionary questions, which involve the sometimes surprising adaptive capacity of certain organisms to dwell in altered and/or changing environments that apparently lost most of their structure and functionality. Space and time heterogeneities are considered in order to understand the patterns of distribution and abundance of species and the various processes that mold them. The book also discusses at which level—from genes to the landscape, including individuals, populations, communities, and ecosystems—men should intervene in nature in order to prevent the loss of biodiversity.

Seagrasses: Biology, Ecology and Conservation

Springer Science & Business Media Seagrasses are unique plants; the only group of flowering plants to recolonise the sea. They occur on every continental margin, except Antarctica, and form ecosystems which have important roles in fisheries, fish nursery grounds, prawn fisheries, habitat diversity and sediment stabilisation. Over the last two decades there has been an explosion of research and information on all aspects of seagrass biology. However the compilation of all this work into one book has not been attempted previously. In this book experts in 26 areas of seagrass biology present their work in chapters which are state-of-the-art and designed to be useful to students and researchers alike. The book not only focuses on what has been discovered but what exciting areas are left to discover. The book is divided into sections on taxonomy, anatomy, reproduction, ecology, physiology, fisheries, management, conservation and landscape ecology. It is destined to become the chosen text on seagrasses for any marine biology course.

Key Topics in Conservation Biology 2

John Wiley & Sons Following the much acclaimed success of the first volume of Key Topics in Conservation Biology, this entirely new second volume addresses an innovative array of key topics in contemporary conservation biology. Written by an internationally renowned team of authors, Key Topics in Conservation Biology 2 adds to the still topical foundations laid in the first volume (published in 2007) by exploring a further 25 cutting-edge issues in modern biodiversity conservation, including controversial subjects such as setting conservation priorities, balancing the focus on species and ecosystems, and financial mechanisms to value biodiversity and pay for its conservation. Other chapters, setting the framework for conservation, address the sociology and philosophy of peoples' relation with Nature and its impact on health, and such challenging practical issues as wildlife trade and conflict between people and

carnivores. As a new development, this second volume of Key Topics includes chapters on major ecosystems, such as forests, islands and both fresh and marine waters, along with case studies of the conservation of major taxa: plants, butterflies, birds and mammals. A further selection of topics consider how to safeguard the future through monitoring, reserve planning, corridors and connectivity, together with approaches to reintroduction and re-wilding, along with managing wildlife disease. A final chapter, by the editors, synthesises thinking on the relationship between biodiversity conservation and human development. Each topic is explored by a team of top international experts, assembled to bring their own cross-cutting knowledge to a penetrating synthesis of the issues from both theoretical and practical perspectives. The interdisciplinary nature of biodiversity conservation is reflected throughout the book. Each essay examines the fundamental principles of the topic, the methodologies involved and, crucially, the human dimension. In this way, Key Topics in Conservation Biology 2, like its sister volume, Key Topics in Conservation Biology, embraces issues from cutting-edge ecological science to policy, environmental economics, governance, ethics, and the practical issues of implementation. Key Topics in Conservation Biology 2 will, like its sister volume, be a valuable resource in universities and colleges, government departments, and conservation agencies. It is aimed particularly at senior undergraduate and graduate students in conservation biology and wildlife management and wider ecological and environmental subjects, and those taking Masters degrees in any field relevant to conservation and the environment. Conservation practitioners, policy-makers, and the wider general public eager to understand more about important environmental issues will also find this book invaluable.

Cheetahs: Biology and Conservation

Biodiversity of the World: Conservation from Genes to Landscapes

Academic Press Cheetahs: Biology and Conservation reports on the science and conservation of the cheetah. This volume demonstrates the interdisciplinary nature of research and conservation efforts to study and protect the cheetah. The book begins with chapters on the evolution, genetics, physiology, ecology and behavior of the species, as well as distribution reports from range countries. These introductory chapters lead into discussions of the challenges facing cheetah survival, including habitat loss, declining prey base, human-wildlife conflict, illegal trade, and newly-emerging threats, notably climate change. This book also focuses on conservation strategies and solutions, including environmental education and alternative livelihoods. Chapters on the role of captive cheetahs to conservation and the long-term research of the species are included, as are a brief discussion of the methods and analyses used to study the cheetah. The book concludes with the conservation status and future outlook of the species. Cheetahs: Biology and Conservation is a valuable resource for the regional and global communities of cheetah conservationists, researchers, and academics. Although cheetah focussed the book provides information relevant to the study of broader topics such as wildlife conservation, captive breeding, habitat management, conservation biology and animal behaviour. Cover photograph by Angela Scott Includes chapters by the world's leading cheetah researchers and practitioners, who have focused their efforts on this high-profile species of conservation concern Provides findings as a combination of scientific detail and basic explanations so that they can be available not only to cheetah researchers and conservationists, but also to policy makers, business leaders, zoo managers, academics, students, and people interested in the cheetah and its future Presents the current knowledge of the species, helping lay the foundations and best practices for cheetah conservation and research worldwide Additional protocols and forms (which were provided by authors) can be found at the Cheetahs: Biology and Conservation companion site:

<https://www.elsevier.com/books-and-journals/book-companion/9780128040881>

Conservation Biology of Hawaiian Forest Birds

Implications for Island Avifauna

Yale University Press Hawaii's forest bird community is the most insular and most endangered in the world and serves as a case study for threatened species globally. Ten have disappeared in the past thirty years, nine are critically endangered, and even common species are currently in decline. Thane K. Pratt, his coeditors, and collaborators, all leaders in their field, describe the research and conservation efforts over the past thirty years to save Hawaii's forest birds. They also offer the most comprehensive look at the reasons for these extinctions and attempts to overcome them in the future. Among the topics covered in this book are trends in bird populations, environmental and genetic factors limiting population size, avian diseases, predators, and competing alien bird species. Color plates by award-winning local photographer Jack Jeffrey illustrate all living species discussed or described.

Shark Biology and Conservation

Essentials for Educators, Students, and Enthusiasts

JHU Press Enhanced by hundreds of original color photographs and beautifully detailed line drawings, Shark Biology and Conservation will appeal to anyone who is spellbound by this wondrous, ecologically important, and threatened group, including marine biologists, wildlife educators, students, and shark enthusiasts.

Ecology and Conservation of the Sirenia

Dugongs and Manatees

Cambridge University Press *A synthesis of the ecological and related knowledge pertinent to understanding the biology and conservation of dugongs and manatees.*

Conservation Biology

Cambridge University Press *Conservation biology is fast emerging as a major new discipline, which incorporates biological principles in the design of effective strategies for the sustainable management of populations, species and entire ecosystems. This beautifully illustrated textbook introduces students to conservation biology, the science of preserving biodiversity. It begins by taking the reader on a tour of the many and varied ecosystems of our planet, providing a setting in which to explore the factors that have led to the alarming loss of biodiversity that we now see. In particular the fundamental problems of habitat loss and fragmentation, habitat disturbance and the non-sustainable exploitation of species in both aquatic and terrestrial ecosystems are explored. The methods that have been developed to address these problems, from the most traditional forms of conservation, to new approaches at genetic to landscape scales are then discussed, showing how the science can be put into practice.*

Essentials of Conservation Biology

Macmillan Science *This volume combines theory with applied and basic research to explain the connections between conservation biology and environmental economics, ethics, law, and the social sciences. It stresses the need for theory, research and an interdisciplinary approach in solving conservation problems.*

Studyguide for Conservation Biology for All by (Editor), ISBN 9780199554249

Cram101 *Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780199554249. This item is printed on demand.*

Zoo Conservation Biology

Cambridge University Press *In the face of ever-declining biodiversity, zoos have a major role to play in species conservation. Written by professionals involved in in situ conservation and restoration projects internationally, this is a critical assessment of the contribution of zoos to species conservation through evidence amassed from a wide range of sources. The first part outlines the biodiversity context within which zoos should operate, introducing the origins and global spread of zoos and exploring animal collection composition. The second part focuses on the basic elements of keeping viable captive animal populations. It considers the consequences of captivity on animals, the genetics of captive populations and the performance of zoos in captive breeding. The final part examines ways in which zoos can make a significant difference to conservation now and in the future. Bridging the gap between pure science and applied conservation, this is an ideal resource for both conservation biologists and zoo professionals.*

An Introduction to Methods and Models in Ecology, Evolution, and Conservation Biology

Princeton University Press *An innovative introduction to ecology and evolution This unique textbook introduces undergraduate students to quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation. It explores the core concepts shared by these related fields using tools and practical skills such as experimental design, generating phylogenies, basic statistical inference, and persuasive grant writing. And contributors use examples from their own cutting-edge research, providing diverse views to engage students and broaden their understanding. This is the only textbook on the subject featuring a collaborative "active learning" approach that emphasizes hands-on learning. Every chapter has exercises that enable students to work directly with the material at their own pace and in small groups. Each problem includes data presented in a rich array of formats, which students use to answer questions that illustrate patterns, principles, and methods. Topics range from Hardy-Weinberg equilibrium and population effective size to optimal foraging and indices of biodiversity. The book also includes a comprehensive glossary. In addition to the editors, the contributors are James Beck, Cawas Behram Engineer, John Gaskin, Luke Harmon, Jon Hess, Jason Kolbe, Kenneth H. Kozak, Robert J. Robertson, Emily Silverman, Beth Sparks-Jackson, and Anton Weisstein. Provides experience with hypothesis testing, experimental design, and scientific reasoning Covers core quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation Turns "discussion sections" into "thinking labs" Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to: http://press.princeton.edu/class_use/solutions.html*

Primate Conservation Biology

University of Chicago Press *From the snub-nosed monkeys of China to the mountain gorillas of central Africa, our closest nonhuman relatives are in critical danger worldwide. A recent report, for example, warns that nearly 20 percent of the world's primates may go extinct within the next ten or twenty years. In this book Guy Cowlshaw and Robin Dunbar integrate cutting-edge theoretical advances with practical management priorities to give scientists and policymakers the tools they need to help keep these species from disappearing forever. Primate Conservation Biology begins with detailed overviews of the diversity, life history, ecology, and behavior of primates and the ways these factors influence primate abundance and distribution. Cowlshaw and Dunbar then discuss the factors that put primates at the greatest risk of extinction, especially habitat disturbance and hunting. The remaining chapters present a comprehensive review of conservation strategies and management practices, highlighting the key issues that must be addressed to protect primates for the future.*

Quantitative Methods for Conservation Biology

Springer Science & Business Media *Reviews the quantitative tools used in the study of subjects such as biodiversity, resource management and endangered species preservation. Topics covered include population viability analysis, population dynamics, metapopulation models, estimating timing of extinctions, quasi-extinction and more.*

Contributions of Behavior and Physiology to Conservation Biology

Frontiers Media SA

A Primer of Conservation Biology

Sinauer Associates Incorporated *Provides up-to-date coverage of Conservation Biology, including sustainable development, global warming, and strategies to save species on the verge of extinction.*

Whale Sharks

Biology, Ecology, and Conservation

CRC Press *Whale sharks are the largest of all fishes, fascinating for comparative studies of all manner of biological fields, including functional anatomy, growth, metabolism, movement ecology, behavior and physiology. These gentle ocean giants have captured the interest of scientists and the imagination of the public, yet their future is uncertain. The conservation status of whale sharks was upgraded to Endangered on the IUCN Red List and the species faces a range of intense threats from human activities. Can these iconic living animals, who have survived for millions of years, survive us? Written by the world's leading experts in whale shark biology, ecology, and conservation, Whale Sharks: Biology, Ecology and Conservation is the first definitive volume about the world's biggest fish. Chapters include discussions of satellite-linked tags, used to track whale shark movements; genetic sequencing, to examine evolutionary adaptations; even the use of underwater ultrasound units to investigate the species' reproduction. The editors hope that by collating what is known, they can make it easier for future researchers, conservationists, and resource managers to fill some of the remaining knowledge gaps, and provide the information they need to join the team. As you work your way through this book, we hope that you will develop a sense of awe and marvel at all of our good fortune to share the ocean, and the planet, with this utterly extraordinary species.*

Where Have All the Birds Gone?

Essays on the Biology and Conservation of Birds that Migrate to the American Tropics

Princeton University Press *"Things are going wrong with our environment," writes John Terborgh, "even the parts of it that are nominally protected. If we wait until all the answers are in, we may find ourselves in a much worse predicament than if we had taken notice of the problem earlier. By waiting, one risks being too late; on the other hand, there can be no such thing as being too early." Terborgh's warnings are essential reading for all who care about migratory birds and our natural environment. Why are tropical migrant species disappearing from our forests? Can we save the birds that are left? Terborgh takes a more comprehensive view of migratory birds than is usual--by asking how they spend their lives during the half-year they reside in the tropics. By scrutinizing ill-planned urban and suburban development in the United States and the tropical deforestation of Central and South America, he summarizes our knowledge of the subtle combination of circumstances that is devastating our bird populations. This work is pervaded by Terborgh's love for the thrushes, warblers, vireos, cuckoos, flycatchers, and tanagers that inhabited his family's woodland acreage while he was growing upbirds that no longer live there, in spite of the preservation of those same woods as part of a county park. The book is a tour of topics as varied as ecological monitoring, the plight of the Chesapeake wetlands, the survival struggle of Central*

American subsistence farmers, and the management of commercial forests.

Applying Landscape Ecology in Biological Conservation

Springer Science & Business Media *This book provides a current synthesis of principles and applications in landscape ecology and conservation biology. Bringing together insights from leaders in landscape ecology and conservation biology, it explains how principles of landscape ecology can help us understand, manage and maintain biodiversity. Gutzwiller also identifies gaps in current knowledge and provides research approaches to fill those voids.*

Risk Assessment in Conservation Biology

Springer Science & Business Media *This book is a cohesive guide to the available methods that can be used in population viability analysis. It is therefore extremely valuable to both the practitioner of conservation biology and the theoretical population biologist.*

Quantitative Conservation Biology

Theory and Practice of Population Viability Analysis

Sinauer Associates Incorporated *The goal of this book is to provide practical, intelligible, and intuitive explanations of population modelling to empirical ecologists and conservation biologists. Modelling methods that do not require large amounts of data (typically unavailable for endangered species) are emphasised. As such, the book is appropriate for undergraduate and graduate students interested in quantitative conservation biology, managers charged with preserving endangered species, and, in short, for any conservation biologist or ecologist seeking to better understand the analysis and modelling of population data.*

Tropical Conservation Biology

John Wiley & Sons *This introductory textbook examines diminishing terrestrial and aquatic habitats in the tropics, covering a broad range of topics including the fate of the coral reefs; the impact of agriculture, urbanization, and logging on habitat depletion; and the effects of fire on plants and animal survival. Includes case studies and interviews with prominent conservation scientists to help situate key concepts in a real world context. Covers a broad range of topics including: the fate of the coral reefs; the impact of agriculture, urbanization, and logging on habitat depletion; and the effects of fire on plants and animal survival. Highlights conservation successes in the region, and emphasizes the need to integrate social issues, such as human hunger, into a tangible conservation plan. Documents the current state of the field as it looks for ways to predict future outcomes and lessen human impact. "Sodhi et al. have done a masterful job of compiling a great deal of literature from around the tropical realm, and they have laid out the book in a fruitful and straightforward manner... I plan to use it as a reference and as supplemental reading for several courses and I would encourage others to do the same." *Ecology*, 90(4), 2009, pp.1144-1145*

Whooping Cranes: Biology and Conservation

Biodiversity of the World: Conservation from Genes to Landscapes

Academic Press *Whooping Cranes: Biology and Conservation covers one of the most endangered birds in North America, and the subject of intense research and highly visible conservation activity. The volume summarizes current biological information on Whooping Cranes and provides the basis for future research necessary for conservation of this species. This edited volume concentrates on work completed in the past 20 years in the areas of population biology, behavior and social structure, habitat use, disease and health, captive breeding, and Whooping Crane conservation. Much of the information presented comes from the study and management of remnant and reintroduced populations of Whooping Cranes in the field; some information is from experimentation and breeding of captive Whooping Cranes. Whooping Cranes: Biology and Conservation seeks to inform and galvanize action dedicated to meeting the challenges faced by Whooping Crane managers and conservationists. Thus, it describes one model of endangered species conservation and restoration that will interest a wide audience: professionals that work on cranes; researchers in the fields of small population biology, endangered species, and avian ecology; wildlife veterinarians and those involved in avian husbandry; administrators of management agencies or conservation organizations; conservationists in other fields; teachers of conservation biology or ornithology and their students; and the educated general public. Presents a comprehensive treatment of the biology and ecology of Whooping Cranes, including biology of both remnant and reintroduced populations of Whooping Cranes. Describes efforts over the past 45 years on conservation and the challenges of reintroducing an endangered species. Includes chapters from a variety of disciplinary and scale perspectives, ranging from evolution, to population ecology, behavior, habitat use, large landscape conservation, conflict, and conservation efforts. Features contributions that are readable, yet technically complete and fully referenced. Provides an example of partnership and collegial action that integrates information produced by scientific research and operational wildlife management. Edited and written by the leading Whooping Crane scholars and practitioners focused on this high-profile species of conservation concern.*

Conservation Biology

Sinauer Associates *Is This new text combines theory and applied and basic research to explain the connections between conservation biology and ecology, climate change biology, the protection of endangered species, protected area management, environmental economics, and sustainable development. A major theme throughout the book is the active role that scientists, local people, the general public, conservation organizations, and governments can play in protecting biodiversity, even while providing for human needs.*

An Introduction to Conservation Biology

"An Introduction to Conservation Biology is well suited for a wide range of undergraduate courses, as both a primary text for conservation biology courses and a supplement for ecological and environmental science courses. This new edition focuses on engaging students through videos and activities, and includes new pedagogy to scaffold students' learning. Coverage of recent conservation biology events in the news—such as global climate change and sustainable development—keeps the content fresh and current"--

Conservation Biology

A Primer for South Asia

Conserving Biodiversity

A Research Agenda for Development Agencies

National Academies Press *The loss of the earth's biological diversity is widely recognized as a critical environmental problem. That loss is most severe in developing countries, where the conditions of human existence are most difficult. Conserving Biodiversity presents an agenda for research that can provide information to formulate policy and design conservation programs in the Third World. The book includes discussions of research needs in the biological sciences as well as economics and anthropology, areas of critical importance to conservation and sustainable development. Although specifically directed toward development agencies, non-governmental organizations, and decisionmakers in developing nations, this volume should be of interest to all who are involved in the conservation of biological diversity.*

Insect Conservation Biology

Proceedings of the Royal Entomological Society's 23rd Symposium

CABI *These proceedings contain papers on insect conservation biology that are classified under 3 themes: (1) the current status of insect conservation, and major avenues for progress and hindrances (6 papers); (2) insects as model organisms in conservation biology (6 papers); and (3) future directions in insect conservation biology (6 papers).*

Connectivity Conservation

Cambridge University Press *One of the biggest threats to the survival of many plant and animal species is the destruction or fragmentation of their natural habitats. The conservation of landscape connections, where animals, plants, and ecological processes can move freely from one habitat to another, is therefore an essential part of any new conservation or environmental protection plan. In practice, however, maintaining, creating, and protecting connectivity in our increasingly dissected world is a daunting challenge. This fascinating volume provides a synthesis on the current status and literature of connectivity conservation research and implementation. It shows the challenges involved in applying existing knowledge to real-world examples and highlights areas in need of further study. Containing contributions from leading scientists and practitioners, this topical and thought-provoking volume will be essential reading for graduate students, researchers, and practitioners working in conservation biology and natural resource management.*

A Primer of Conservation Biology

Sinauer Associates Incorporated *A Primer of Conservation Biology, Third Edition incorporates background, theory, and examples in a lively and readable text that will appeal to a wide audience and stimulate interest in conservation biology. The book provides the most up-to-date perspective on many high-profile issues in the field, such as sustainable development, the effectiveness of conservation laws and treaties, the design of conservation areas, classification of conservation threats, and strategies to save species on the verge of extinction. The Primer is divided into five chapters, focusing successively on biological diversity and its value, the threats to biological diversity, conservation at the population and species levels, protecting and managing habitats and ecosystems, and human*

societies and sustainable development. Case studies are included to demonstrate the controversies in the field, and to stimulate thought and discussion. The book provides many examples of successful conservation approaches and ends with suggestions for a future agenda. Throughout, the choice of examples is well balanced to show the full range of species, habitats, and geographic areas of the world. The links between conservation biology and environmental law, environmental economics, philosophy, social sciences and anthropology, park management, and government policy are clearly presented. The book is very well illustrated, includes an extensive bibliography (covering literature through 2004) and a glossary, and has an annotated list of suggested readings and discussion questions at the end of each chapter. Sources of further information are given in an Appendix. *A Primer of Conservation Biology* is ideally suited for use in short undergraduate courses, either as a stand-alone text or supplemented by outside readings. It can also be used effectively as a supplemental resource for courses in introductory biology, general ecology, population biology, environmental science, and w

Strange Natures

Conservation in the Era of Synthetic Biology

Yale University Press *A groundbreaking examination of the implications of synthetic biology for biodiversity conservation Nature almost everywhere survives on human terms. The distinction between what is natural and what is human-made, which has informed conservation for centuries, has become blurred. When scientists can reshape genes more or less at will, what does it mean to conserve nature? The tools of synthetic biology are changing the way we answer that question. Gene editing technology is already transforming the agriculture and biotechnology industries. What happens if synthetic biology is also used in conservation to control invasive species, fight wildlife disease, or even bring extinct species back from the dead? Conservation scientist Kent Redford and geographer Bill Adams turn to synthetic biology, ecological restoration, political ecology, and de-extinction studies and propose a thoroughly innovative vision for protecting nature.*

Conservation

Linking Ecology, Economics, and Culture

Princeton University Press *Publisher Description*

Biology and Conservation of Horseshoe Crabs

Springer *Horseshoe crabs are "living fossils" that face growing threats. This book consists of papers presented at the 2007 International Symposium on the Science and Conservation of Horseshoe Crabs. It formulates plans for an international conservation program.*