

Zoo Conservation Biology

Conservation Biology for All Conservation Biology Conservation Biology Essentials of Conservation Biology Integrating Conservation Biology and Paleobiology to Manage Biodiversity and Ecosystems in a Changing World Conservation Biology Conservation Biology An Introduction to Conservation Biology An Introduction to Conservation Biology Tropical Conservation Biology Conservation Biology Conservation Biology Practical Conservation Biology Fundamentals of Conservation Biology Key Topics in Conservation Biology Encyclopedia of global warming and climate change Conservation Conservation Biology Conservation Biology An Introduction to Conservation Biology Navjot S. Sodhi Andrew S. Pullin Peggy L. Fiedler Richard B. Primack G. Lynn Wingard Ian F. Spellerberg Michael E. Soulé Anna Sher Anna Sher Navjot S. Sodhi Peggy L. Fiedler Fred Van Dyke David Lindenmayer Malcolm L. Hunter, Jr. David Macdonald S. George Philander Clive Hambler Andrew S. Pullin Bradley Joseph Cardinale Primack

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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

this colourful textbook introduces students to conservation biology the science of preserving biodiversity

reflecting a new generation of conservation biologists upper division and graduate level conservation biology courses as well as for individual reference this book incorporates a number of new authors and additional chapters covering all aspects of one of the most dynamic areas in the life sciences containing ten additional chapters it includes such timely topics as

ecosystem management and the economics of conservation

a unified introduction to the multidisciplinary science of conservation biology combines theory with applied and basic research to explain the connections between conservation biology and environmental economics ethics law and the social sciences text is appropriate for undergraduate biology students and students of related disciplines annotation copyright by book news inc portland or

policy makers and resource managers must make decisions that affect the resilience and sustainability of natural resources including biodiversity and ecosystem services however these decisions are often based on evidence or theory derived from highly altered systems and over short time periods of low magnitude environmental and climatic change because natural systems change and evolve across multiple timescales from instantaneous to millennial long term understanding of how past life has responded to perturbations can inform resource managers by using these natural laboratories of the past conservation paleobiology and paleoecology provide the framework necessary to anticipate and plan for future changes the goal of this research topic is to heighten awareness among conservation and restoration practitioners to the value and applications of long term perspectives provided by conservation paleobiology and paleoecology most conservation studies focus on systems already impacted by anthropogenic change these studies would benefit from paleontological data through expanded temporal scales identification of baselines and an understanding of how organisms have responded to past changes however resource management decisions rarely include input from paleontologists and paleoecological research is rarely incorporated into conservation decision making we seek to bridge this research implementation gap by highlighting the application of paleoecological data to issues such as biodiversity dynamics extinction risks and resilience to perturbations among other topics we hope to foster new cross disciplinary synergies by encouraging conservation scientists and managers

to collaborate with paleontologists to improve conservation decision making and by increasing awareness among paleontologists to the needs of the resource management community this research topic will provide a forum for both the paleontological and resource management communities to exchange ideas that will enhance restoration and conservation decision making we invite papers on conceptual advances reviews of specific topics to guide efforts in research or practice case studies of successful applications articles describing datasets with applied value and perspective papers summarizing a body of paleontological research with relevance to the resource management community topics can include but are not limited to responses of species communities and ecosystems to perturbations strategies to achieve the direct integration of paleobiology and paleoecology into on ground resource management identifying baselines and reference conditions increasing the robustness of forecasting models through the incorporation of paleontological data identifying key species interactions and other phenomena as indicators of impending change new methodologies analytical tools and or proxies in the application of paleontological data to conservation and restoration practice lynn wingard damien fordham and greg dietl have no conflicts of interest chris schneider has a potential conflict of interest where manuscripts pertain to stakeholders in the petroleum industry as she is an independent contractor in the alberta oil sands mining area

this text is a broad introduction to ideas in ecology set in the context of global environmental change the book incorporates case studies of conservation in practice written by a series of contributors each an expert in their own field

over 240 updates to text and tables 275 new citations and new figures in every chapter increased representation of women and bipoc in the textbook significant edits and additions regarding the roles and experiences of indigenous people in the field of conservation biology incorporation of several new discoveries and developments from the past two years including the latest understanding of the causes of the permian extinction and the un decade on ecosystem restoration

2021 2030 a reorganization of the chapter on restoration ecology additional discussion on the political aspects of climate change and of genetically modified organisms gmos and the addition of a new global change connection icon to highlight ways we are changing the earth an elaboration of the concept of the types of biodiversity including a refinement of the definition of species diversity with additional examples upgraded digital resources including a new video guide and an enhanced e book with self assessment questions after each chapter subheading book jacket

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

john harper nature conservation has changed from an idealistic philosophy to a serious technology ecology the science that underpins the technology of conservation is still too immature to provide all the wisdom that it must it is arguable that the desire to conserve nature will in itself force the discipline of ecology to identify fundamental problems in its scientific

goals and methods in return ecologists may be able to offer some insights that make conservation more practicable Harper 1987 the idea that nature species or communities is worth preserving rests on several fundamental arguments particularly the argument of nostalgia and the argument of human benefit and need nostalgia of course is a powerful emotion with some notable exceptions there is usually a feeling of dismay at a change in the status quo whether it be the loss of a place in the country for walking or rambling the loss of a painting or architectural monument or that one will never again have the chance to see a particular species of bird or plant

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

provides the essential framework for under graduate and post graduate courses in conservation biology and natural resource management by covering the complete array of topics central to these fields lindenmayer from anu act and burgman from university of melbourne vic

fundamentals of conservation biology this book is about hope in the face of forces that would degrade our world this book is about the rich tapestry of life that shares our world now and about how we can maintain it sometimes in places that we protect and set aside more often in places where we share the lands and waters with a wide range of other species for more than 30 years fundamentals of conservation biology has been a valued mainstay of the literature serving both to introduce new students to this ever changing topic and to provide an essential resource for academics and researchers

working in the discipline in the decade since the publication of the third edition concerns about humanity's efforts to conserve the natural world have only grown deeper as new threats to biodiversity continue to emerge this fourth edition has taken into account a vast new literature and boasts nearly a thousand new references as a result by embracing new theory and practice and documenting many examples of both conservation successes and the hard lessons of real world wicked environmental problems fundamentals of conservation biology remains a vital resource for biologists conservationists ecologists environmentalists and others

this important new book addresses key topics in contemporary conservation biology written by an internationally renowned team of authors key topics in conservation biology 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 nongovernment organizations key topics also tackles the management of wildlife diseases and examines the impact of bushmeat extraction and the role of hunting in the conservationist's toolbox other essays explore 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 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 embraces the issues from cutting edge ecological science to policy environmental economics governance ethics and the practical issues of implementation key topics in conservation biology will 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 those

taking masters degrees in any field relevant to conservation conservation practitioners policy makers and the wider general public eager to understand more about important environmental issues will also find this book invaluable

this is a collection of approximately 750 articles exploring major topics related to global warming and climate change ranging geographically from the north pole to the south pole and thematically from social effects to scientific cause it also covers industrial and economic factors the role of societies and much more

a compact overview of the process theory and practice of conservation and its central place in environmental issues

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

we wrote this book to inspire the next generation of conservation biologists to help humans become better stewards of the world s biodiversity in doing so our desire was to fill two key gaps in the education of most conservation biologists that are beginning their studies this first gap is interdisciplinary training most textbooks of conservation and most university

courses in conservation focus on the discipline's historical roots in the natural sciences e.g. botany, ecology, and disciplines of natural resource management e.g. forestry, fisheries, wildlife management, but conservation is no longer a group of ecologists, wildlife biologists, or fisheries scientists trying to save their favorite species in a dwindling habitat. The modern practice of conservation relies on numerous disciplines from the social sciences that account for human behaviors, values, needs, and decision making. Modern conservation relies on disciplines from engineering and architecture to help plan, design, and construct practical solutions to problems, and finally, modern conservation relies on disciplines from the humanities that compose law and policy and that communicate effectively through literature, art, and photography. Numerous examples and exercises from these fields have been woven into this textbook to help improve interdisciplinary training. The second gap we see in the education of conservation professionals is skills-based training. Over the past few decades, many universities have eliminated course requirements in biology, chemistry, physics, and math as demand for bachelor of science degrees has waned and demand for bachelor of arts programs has increased e.g. B.A.s in environmental sciences, earth science, conservation, ecology, etc. Many textbooks have been written to support B.A. programs that focus on giving students broad introductions to fields like conservation biology, but few texts develop the depth of methods, tools, and techniques that students will need to be successful practitioners in the field. We have carefully chosen the most important quantitative concepts, methods, tools, techniques, and models that students need for a career in conservation and we explain those in simple terms while also providing the practice needed to master these new skills. Given our focus on more interdisciplinary skills-based training, this book is written for aspiring conservation biologists who need more advanced training than is typically offered in an introductory level class. *Conservation Biology 2e* supports courses for upper division undergraduates who have already had some introduction to environmental science, ecology, wildlife biology, forestry, or other fields related to conservation. This book can also be used for entry level graduate courses such as those in the growing number of

professional master s programs that provide advanced degrees in environmental science policy management or sustainability

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Introduction

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