Zoo Conservation Biology

Conservation Biology for AllConservation BiologyConservation BiologyConservation BiologyFundamentals of Conservation BiologyEssentials of Conservation BiologyConservation BiologyKey Topics in Conservation Biology 2Conservation BiologyConservation BiologyAn Introduction to Conservation BiologyConservation BiologyAn Introduction to Conservation BiologyConservation BiologyIntegrating Conservation Biology and Paleobiology to Manage Biodiversity and Ecosystems in a Changing WorldConservation BiologyTropical Conservation BiologyConservation BiologyConservation BiologyConservation Biology Principles for Forested Landscapes Navjot S. Sodhi Peggy L. Fiedler Andrew S. Pullin Michael E. Soulé Malcolm L. Hunter, Jr. Richard B. Primack Bradley Joseph Cardinale David W. Macdonald T. R. New Fred Van Dyke Anna Sher Bradley Cardinale Anna Sher Andrew S. Pullin G. Lynn Wingard Peggy L. Fiedler Navjot S. Sodhi George W. Cox Fred Van Dyke Joan Voller Conservation Biology for All Conservation Biology Conservation Biology Conservation Biology Fundamentals of Conservation Biology Essentials of Conservation Biology Conservation Biology Key Topics in Conservation Biology 2 Conservation Biology Conservation Biology An Introduction to Conservation Biology Conservation Biology An Introduction to Conservation Biology Conservation Biology Integrating Conservation Biology and Paleobiology to Manage Biodiversity and Ecosystems in a Changing World Conservation Biology Tropical Conservation Biology Conservation Biology Conservation Biology Conservation Biology Principles for Forested Landscapes *Navjot S. Sodhi Peggy L. Fiedler Andrew S. Pullin Michael E. Soulé Malcolm L. Hunter, Jr. Richard B. Primack Bradley Joseph Cardinale David W. Macdonald T. R. New Fred Van Dyke Anna Sher Bradley Cardinale Anna Sher Andrew S. Pullin G. Lynn Wingard Peggy L. Fiedler Navjot S. Sodhi George W. Cox Fred Van Dyke Joan Voller*

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 conversion 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

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

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

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 blackwellpublishing com hunter and by request on cd rom

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

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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 bas in environmental sciences earth science conservation ecology etc many textbooks have been written to support ba 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

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

this is the first introductory text on conservation biology to focus clearly on southern australia and the problems that face its native animals and plants and their habitats as a result of human interference beginning with a comprehensive discussion of the broad principles of conservation biology and its importance in australia conservation biology covers the development of

conservation practive and theory in australia using local examples to provide a framework for understanding the extent and nature of the need for conservation in southern australia extinction and its significance the meanings levels and interpretation of the concept of biodiversity the notion of rarity and its evaluation in terms of establishing the conservation status of flora and fauna approaches to species and ecosystem conservation including reserve design and setting priorities for conservation management conservation beyond reserves and ex situ conservation encompassing captive breeding and reintroduction the considerable number of threats to species and ecosystems australia s conservation responsibilities in a global context conservation biology features a series of topical case histories that highlight management issues and some of the successes and disappointments that have occurred and each chapter includes suggestions for further reading

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 experience as a conservation biologist college teacher and successful textbook author 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 in addition to rigorous examination of the scientific theory supporting conservation biology and its applications this unique book includes a number of features which set it apart from others these include its chapters on aquatic conservation landscape ecology and ecosystem management and its direct explanation and invitation to students on how to enter the work of conservation as a professional and personal vocation aimed primarily at undergraduates studying courses in conservation and conservation biology this book will also be useful to practicing conservationists and natural resource managers

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

conservation biology brings together fundamental principles tools and techniques from applied and basic research and hundreds of real world examples and stories from a variety of disciplines to teach students how to become practicing conservation biologists who protect and manage earth s biodiversity by bridging the life sciences social sciences humanities and engineering disciplines this text inspires the next generation of conservation leaders to tackle complex environmental challenges and become effective stewards of the world s biodiversity a major theme throughout the text is the active role that researchers local communities conservation organizations governments and the public can play in protecting biodiversity the second edition of conservation biology is updated with the latest research new interactive exercises and improved diversity and inclusion to prepare upper level undergraduates and graduate students for successful careers in conservation the new enhanced e book offers additional features to reinforce learning

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

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

john harper nature conservation has changed from an idealistic philosophy to a serious technology ecology the science that underpins the technol ogy 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 prob lems 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 preserv ing rests on several fundamental arguments particularly the argu ment of nostalgia and the argument of human benefit and need nostalgia of course is a powerful emotion with some notable ex ceptions there is usually a feeling of dismay at a change in the sta tus 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

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

the goal of this text is to introduce the reader to the nature of biodiversity in its broadest sense to the threats to its survival that are intensifying daily and to ecologically sound approaches to conserving biodiversity pref

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

this book is intended to provide information to those who wish to interact with the landbase in an ecologically sustainable

manner practitioners charged with the administration of land based programs in industry and government will find the information presented useful it should also be a resource for many community groups involved in land use decision making humans continue to use forests and make decisions about land use without perfect information conservation biology principles for forested landscapes is intended to enable the improvement of planning and decison making processes by providing ecological information on issues of forest use current approaches are not working where information exists on new ecologically sustainable approaches practitioners should switch where the information on a better approach is not yet available practitioners should replace the current inappropriate approach with a variety of flexible ones that offer the opportunity to change with new knowledge

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