Zoo Conservation Biology

Conservation Biology for AllConservation BiologyKey Topics in Conservation Biology 2Fundamentals of Conservation BiologyEssentials of Conservation BiologyConservation BiologyConservation BiologyTropical Conservation BiologyConservation BiologyConservation BiologyConservation BiologyConservation BiologyFundamentals of Conservation BiologyAn Introduction to Conservation BiologyConservation BiologyConservation BiologyConservation Biology in AsiaConservation BiologyConservationConservation Biology Navjot S. Sodhi Andrew S. Pullin David W. Macdonald Malcolm L. Hunter, Jr. Richard B. Primack Peggy L. Fiedler T. R. New Navjot S. Sodhi Michael E. Soulé Peggy L. Fiedler Bradley Joseph Cardinale Ian F. Spellerberg Malcolm L. Hunter Anna Sher Navjot S. Sodhi Michael E. Soulé Kamaljit S. Bawa Clive Hambler Fred Van Dyke

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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 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

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

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

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

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

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 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

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

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

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

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

this outstanding volume introduces and explains the concept of conservation biology the applied science of maintaining the earth s biological diversity addresses the social political and economic issues in a manner that can be readily understood by people outside of the field who are concerned about the future of our planet and its inhabitants

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

the late navjot sodhi conceived this book as a way of bringing to the forefront of our conservation planning for the tropics the views of people who were actually working and living there in its 31 chapters 55 authors present their views on the conservation problems they face and how they deal with them effective long term conservation in the tropics requires the full participation of local people organizations and governments the human population of tropical countries is expected to grow by more than 2 5 billion people over the next several decades with expectations of increased consumption levels growing even more rapidly than population levels clearly there will be a need for more trained conservationists and biologists significant levels of local involvement are essential to conservation success with the rights of local people fully recognized protected and fostered by governmental and international assistance overarching conservation plans are necessary but cannot in themselves lead to success the individual experiences presented in the pages of this book will provide useful models that may serve to build better and more sustainable lives for the people who live in the tropics and lead to the continued survival of as many species and functioning ecosystems as possible

one of the fastest growing scientific disciplines in recent history is conservation biology a response of the scientific community to the massive environmental changes taking place on earth its goal is to enable society to anticipate prevent and reduce ecological damage and to generate the scientific information from which effective conservation strategies and policies can be designed and implemented in 1989 the society for conservation biology and island press produced research priorities for conservation biology a slim volume that set forth the findings of experts who had gathered to outline research needs for the near future and which served as a guidepost for the field throughout the 1990s in january 2000 leaders of the society for conservation biology convened a similar group to reach consensus on where the field now stands and to determine the major compelling research priorities for the next decade conservation biology research priorities for the next decade presents the results of that gathering the book notes progress or changes in the state of global biodiversity over the past decade and discusses overarching themes that influence all areas of conservation offers ten chapters by leading experts that summarize the status of knowledge in key areas ranging from marine conservation to ecological restoration to conservation medicine sets forth research priorities for each area describes gaps in current knowledge that are impeding the ability of conservation practitioners to carry out their worka final synthesis chapter brings together cross cutting themes that integrate the diverse topics within the context of global biodiversity loss and presents a call to action for scientists and others working in the field conservation biology research priorities for the next decade represents an indispensable guide to the research that is most urgently needed to support effective conservation and will be must reading for anyone involved with the field of conservation biology

contributed papers from a seminar held in kathmandu in nov 2005

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

this book provides a thorough up to date examination of conservation biology and the many supporting disciplines that comprise conservation science in this the third edition of the highly successful conservation biology foundations concepts applications the authors address their interdisciplinary topic as it must now be practiced and perceived in the modern world beginning with a concise review of the history of conservation the authors go on to explore the interplay of conservation with genetics demography habitat and landscape aquatic environments and ecosystem management and the relationship of all these disciplines to ethics economics law and policy an entirely new chapter the anthropocene conservation in a human dominated nature breaks new ground in its exploration of how conservation can be practiced in anthropogenic biomes novel ecosystems and urban habitats the third edition includes the popular points of engagement

discussion questions used in earlier editions and adds a new feature information boxes which briefly recap specific case histories described in the text a concluding chapter offers insight into how to become a conservation professional in both traditional and non traditional roles the authors fred van dyke and rachel lamb draw on their expertise as field biologists wildlife managers consultants to government and industry and scholars of environmental law policy and advocacy as well as their many years of effective teaching experience informed by practical knowledge and acquired skills the authors have created a work of exceptional clarity and readability which encompasses both systemic foundations as well as contemporary developments in the field conservation biology foundations concepts applications will be of invaluable benefit to undergraduate and graduate students as well as to working conservation scientists and managers this is an amazing resource for students faculty and practitioners both new and experienced to the field diane debinski phd unexcelled wisdom for living at home on wonderland earth the planet with promise destined for abundant life holmes rolston phd van dyke and lamb have maintained the original text s emphasis on connecting classical ecological and environmental work with updated modern applications and lucid examples but more importantly the third edition contains much new material on the human side of conservation including expanded treatments of policy economics and climate change tim van deelen phd fred van dyke and rachel lamb break new ground in both the breadth and depth of their review and analysis of this crucially important and rapidly changing field any student or other reader wishing to have a comprehensive overview and understanding of the complexities of conservation biology need look no further this book is your starting point simon n stuart phd anyone who teaches talks or writes and works on conservation biology needs this latest edition of conservation biology foundations concepts applications 3rd edition by fred van dyke and rachel l lamb this will be useful to both beginners and experts as well the authors included almost all important issues in relation to conservation biology this is really an outstanding book bidhan chandra das professor ecology branch department of zoology university of rajshahi bangladesh

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