



Ecology And Tropical Biology

Patrick Vollmar



Ecology And Tropical Biology:

Tropical Biology and Conservation Management - Volume V Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional

Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs *Ecology and Tropical Biology* Ian Deshmukh, 1986 **Tropical Biology and Conservation Management - Volume IV** Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in tem sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators

Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs **Tropical Biology and Conservation Management - Volume X** Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research

Personnel and Policy Analysts Managers and Decision Makers and NGOs **Coexistence** Jan Sapp, 2016-10-18 This book is about tropical biology in action how biologists grapple with the ecology and evolution of the great species diversity in tropical rainforests and coral reefs Tropical rainforests are home to 50% of all the plant and animal species on earth though they cover only about 2% of the planet Coral reefs hold 25% of the world's marine diversity though they represent only 0.1 % of the world's surface The increase in species richness from the poles to the tropics has remained enigmatic to naturalists for more than 200 years How have so many species evolved in the tropics How can so many species coexist there At a time when rainforests and coral reefs are shrinking when the earth is facing what has been called the sixth mass extinction understanding the evolutionary ecology of the tropics is everyone's business Despite the fundamental importance of the tropics to all of life on earth tropical biology has evolved relatively slowly and with difficulties economic political and environmental This book is also about tropical science in context situated in the complex socio political history and the rich rainforests and coral reefs of Panama There are no other books on the history of tropical ecology and evolution or on the Smithsonian Tropical Research Institute Thus situated in historical context Jan Sapp's aim is to understand how naturalists have studied and conceptualized the great biological diversity and entangled ecology of tropics This book has potential to be used in tropical biology classes ecology courses evolutionary ecology and it could also be useful in classes on the history of biology

Tropical Ecology John C. Kricher, 2011-02-28 A comprehensive introduction to tropical ecology This full color illustrated textbook offers the first comprehensive introduction to all major aspects of tropical ecology It explains why the world's tropical rain forests are so universally rich in species what factors may contribute to high species richness how nutrient cycles affect rain forest ecology and how ecologists investigate the complex interrelationships among flora and fauna It covers tropical montane ecology riverine ecosystems savanna dry forest and more Tropical Ecology begins with a historical overview followed by a sweeping discussion of biogeography and evolution and then introduces students to the unique and complex structure of tropical rain forests Other topics include the processes that influence everything from species richness to rates of photosynthesis how global climate change may affect rain forest characteristics and function how fragmentation of ecosystems affects species richness and ecological processes human ecology in the tropics biodiversity and conservation of tropical ecosystems and species Drawing on real world examples taken from actual research Tropical Ecology is the best textbook on the subject for advanced undergraduates and graduate students Offers the first comprehensive introduction to tropical ecology Describes all the major kinds of tropical terrestrial ecosystems Explains species diversity evolutionary processes and coevolutionary interactions Features numerous color illustrations and examples from actual research Covers global warming deforestation reforestation fragmentation and conservation The essential textbook for advanced undergraduates and graduate students Suitable for courses with a field component Leading universities that have adopted this book include Biola University Bucknell University California State University Fullerton Colorado State University Fort

Collins Francis Marion University Michigan State University Middlebury College Northern Kentucky University Ohio Wesleyan University St Mary's College of Maryland Syracuse University Tulane University University of California Santa Cruz University of Central Florida University of Cincinnati University of Florida University of Missouri University of New Mexico University of North Carolina at Chapel Hill University of the West Indies

The Ecology of Tropical East Asia
 Richard Corlett, 2014 An updated edition of the only book dedicated to the terrestrial ecology of the East Asian tropics authored by a world renowned tropical ecologist

Tropical Biology and Conservation Management - Volume XI
 Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural

History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs Tropical Biology and Conservation Management - Volume VIII Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in tem sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on

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The Ecology of Tropical East Asia Richard T. Corlett, 2014 The Ecology of Tropical East Asia was the first book to describe the terrestrial ecology of the entire East Asian tropics and sub tropics from southern China to western Indonesia This edition updates the contents and extends the coverage to include the similar ecosystems of northeast India The book deals with plants animals and the ecosystems they inhabit as well as the diverse threats to their survival and the options for conservation

Ecology and Natural History of Tropical Bees David W. Roubik, David Ward Roubik, 1992-05-29 Humans have been fascinated by bees for centuries Bees display a wide spectrum of behaviours and ecological roles that have provided biologists with a vast amount of material for study Among the types observed are both social and solitary bees those that either pollinate or destroy flowers and those that display traits allowing them to survive underwater Others fly mainly at night and some build their nests either in the ground or in the tallest rain forest trees This highly acclaimed book summarises and interprets research from around the world on tropical bee diversity and draws together major themes in ecology natural history and evolution The numerous photographs and line illustrations and the large reference section qualify this book as a field guide and reference for workers in tropical and temperate research The fascinating ecology and natural history of these bees will also provide absorbing reading for other ecologists and naturalists This book was first published in 1989

Tropical Biology and Conservation Management - Volume I Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is

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The Ecology of Trees in the Tropical Rain Forest I. M. Turner, 2001-07-05 Our knowledge of the ecology of tropical rain forest trees is limited with detailed information available for perhaps only a few hundred of the many thousand of species that occur Yet a good understanding of the trees is essential to unravelling the workings of the forest itself This book aims to summarise contemporary understanding of the ecology of tropical rain forest trees The emphasis is on comparative ecology an approach that can help to identify possible adaptive trends and evolutionary constraints and which may also lead to a workable ecological classification for tree species conceptually simplifying the rain forest community and making it more amenable to analysis

Tropical Forest Ecology Egbert Giles Leigh Jr., 1999-03-04 In Tropical Forest Ecology Egbert G Leigh Jr one of the world s foremost tropical ecologists introduces readers to the tropical forest and describes the intricate web of interdependence among the great diversity of tropical plants and animals Focusing on the tropical forest of Barro Colorado Island Panama Leigh shows what Barro Colorado can tell us about other tropical forests and what tropical forests can tell us about Barro Colorado This book considers three essential questions for understanding the ecological organization of tropical forests How do they stay green with their abundance of herbivores Why do they have such a diversity of plants and animals

And what role does mutualism play in the ecology of tropical forests Beautifully written and abundantly illustrated Tropical Forest Ecology will certainly appeal to a wide variety of scientists in the fields of evolution tropical biology botany zoology and natural history

Tropical Forest Community Ecology Walter Carson, Stefan Schnitzer, 2011-08-31 Historically tropical ecology has been a science often content with descriptive and demographic approaches which is understandable given the difficulty of studying these ecosystems and the need for basic demographic information Nonetheless over the last several years tropical ecologists have begun to test more sophisticated ecological theory and are now beginning to address a broad array of questions that are of particular importance to tropical systems and ecology in general Why are there are so many species in tropical forests and what mechanisms are responsible for the maintenance of that vast species diversity What factors control species coexistence Are there common patterns of species abundance and distribution across broad geographic scales What is the role of trophic interactions in these complex ecosystems How can these fragile ecosystems be conserved Containing contributions from some of the world s leading tropical ecologists Tropical Forest Community Ecology provides a summary of the key issues in the discipline of tropical ecology Includes contributions from some of the world s leading tropical ecologists Covers patterns of species distribution the maintenance of species diversity the community ecology of tropical animals forest regeneration and conservation of tropical ecosystems

Tropical Biology and Conservation Management - Volume III Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among

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Past and Recent History of Tropical Ecosystems Association for tropical biology and conservation, 2008

Research Priorities in Tropical Biology Assembly of Life Sciences (U.S.). Committee on Research Priorities in Tropical Biology, 1980

Tropical Rain Forest Ecology, Diversity, and Conservation Jaboury Ghazoul, Douglas Sheil, 2024-03-14 Rain forests represent the world's richest repository of terrestrial biodiversity and play a major role in regulating the global climate They support the livelihoods of a substantial proportion of the world's population and are the source of many internationally traded commodities They remain despite decades of conservation attention increasingly vulnerable to degradation and clearance with profound though often uncertain future costs to global society Understanding the ecology of these diverse biomes and peoples dependencies on them is fundamental to their future management and conservation Tropical Rain Forest Ecology Diversity and Conservation introduces and explores what rain forests are how they arose what they contain how they function and how humans use and impact them The book starts by introducing the variety of rain forest plants fungi microorganisms and animals emphasising the spectacular diversity that is the motivation for their conservation The central chapters describe the origins of rain forest communities the variety of rain forest formations and their ecology and dynamics The challenge of explaining the species richness of rain forest communities lies at the heart of ecological theory and forms a common theme throughout The book's final section considers historical and current interactions of humans and rain forests It explores biodiversity conservation as well as livelihood security for the many communities that are dependent on rain forests inextricable issues that represent urgent priorities for scientists conservationists and policy makers

Tropical Rain Forests Richard T. Corlett, Richard B.

Primack, 2011-03-03 The first edition of *Tropical Rain Forests: An Ecological and Biogeographical Comparison* exploded the myth of the rain forest as a single uniform entity. In reality, the major tropical rain forest regions in tropical America, Africa, Southeast Asia, Madagascar, and New Guinea have as many differences as similarities as a result of their isolation from each other during the evolution of their floras and faunas. This new edition reinforces this message with new examples from recent and on-going research. After an introduction to the environments and geological histories of the major rain forest regions, subsequent chapters focus on plants, primates, carnivores and plant eaters, birds, fruit bats, and gliding animals and insects, with an emphasis on the ecological and biogeographical differences between regions. This is followed by a new chapter on the unique tropical rain forests of oceanic islands. The final chapter, which has been completely rewritten, deals with the impacts of people on tropical rain forests and discusses possible conservation strategies that take into account the differences highlighted in the previous chapters. This exciting and very readable book, illustrated throughout with color photographs, will be invaluable reading for undergraduate students in a wide range of courses as well as an authoritative reference for graduate and professional ecologists, conservationists, and interested amateurs.

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