

Amazonian Rain Forests Ecosystem Disturbance And Recovery

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Forests

Tropical forest nutrients, where do we stand? A tour de horizon; Soil characteristics and classification in relation to the mineral nutrition of tropical wooded ecosystems; pedological processes and nutrientsupplical soils; Variations in soil nutrients in relation to soil moisture status in a tropical forested ecosystem; Nitrification and humid tropical ecosystems: potential controls on nitrogen retention; The effect of humus acids and soil heating on the availability of phosphate in oxide-rich tropical soils; Factores affecting nutrient cycling in tropical soils; Mineral nutrients in some betwana savanna types; root symbioses of trees in savannas; Mineral nutrient dynamics during savanna-forest transformation in central america; Mineral nutrients in tropical dry deciduous forest and savanna ecosystems in india; Mycorrhizas in tropical forest; Chemical relationships between vegetation, soil and water in contrasting inundation areas of amazonia; Are process rates higher in tropical forest ecosystems? Patterns of nutrient accumulation and release in amazonian forests the upper rio negro basin; Soil nutrients and plant secondary compounds; Chemical elements in forests on volcan barva, costa rica; A biossay study of soils in the blue mountains of jamaica; Nutrient effects of modification of shifting cultivare in west Africa; Role of weeds in nutrient cycling in the cropping phase of milpa agriculture in belize, central america; Mineralization of nutrients after forest clearance and their uptake during cropping; Nutrient dynamics in forest fallows in southe-east Asia; Nutriernnt cycling in forest falows in nort-easteern India; The use mathematical models in the development of shifting cultivation systems; Nutritional constraintsin secondary vegetation and upland rice in south-west ivory coast; Nutryent cycling in moist tropical forests: the hydrological; fremework; The role of mineral nutrients in the tropics: a plant ecologist's view; Mineral nutrients in tropical ecosystems: a soil scientist's view.

Rainforest Organizations

Emerging Threats to Tropical Forests

Amazon Basin

The last three decades have brought extraordinary changes to the forests and people of Borneo. Borneo in Transition provides glimpses into particular villages and shows people have responded to some of the most important changes in their social and physical environments.

Forest Entomology

Law, Values, and the Environment

Tropical Forest Remnants

Primary and secondary source documents discuss the evolution of climate change, effects of global warming, how global warming may alter agriculture and industry, the role of governments in preventing climate change.

Rainforests

The treetops of the world's forests are where discovery and opportunity abound, however they have been relatively inaccessible until recently. This book represents an authoritative synthesis of data, anecdotes, case studies, observations, and recommendations from researchers and educators who have risked life and limb in their advocacy of the High Frontier. With innovative rope techniques, cranes, walkways, dirigibles, and towers, they finally gained access to the rich biodiversity that lives far above the forest floor and the emerging science of canopy ecology. In this new edition of Forest Canopies, nearly 60 scientists and educators from around the world look at the biodiversity, ecology, evolution, and conservation of forest canopy ecosystems. -Comprehensive literature list -State-of-the-art results and data sets from current field work -Foremost scientists in the field of canopy ecology -Expanded collaboration of researchers and international projects -User-friendly format with sidebars and case studies -Keywords and outlines for each chapter

People in Nature

With Broadax and Firebrand

Pollution and environmental degradation are problems that do not recognize international borders. This anthology of 26 recent articles by experts on

international environmental law will acquaint readers with the scope of worldwide environmental problems and suggest means to resolve them. A list of environmental treaties, a selective bibliography, and a glossary are also provided.

Ecology and Land Management in Amazonia

Rainforests -- home to more than half of all plant and animal species on earth while covering less than six percent of the world's land area -- have intricate ecosystems with multitudes of animal and plant species, including humans. Yet deforestation of the rainforests has greatly increased in the past half century. Ten thousand years ago rainforests covered an estimated 9.5 million square miles, but as millions of trees are lost daily to agricultural and commercial development, scientific studies project the reduction of rainforests to six million square miles by the year 2000 and 3.5 million square miles by 2050. Numerous scientific, political, conservationist, public-information and other organizations have been formed to address every aspect of rainforests; over 120 worldwide can be found in this directory. Each entry lists the address, phone number, contact person, e-mail or Internet address, (if available), mission statement or goals, publications, and often the group's history and current projects. All listed agencies and organizations readily accept queries for information about rainforests, and most invite participation in their activities and projects.

An Introduction to Tropical Rain Forests

The international perspective for this book is the unprecedented level of concern over deforestation, recognized by the meeting of world leaders at the 1992 Earth Summit, in Rio de Janeiro, and culminating in the appointment of the Intergovernmental Panel on Forests (IPF), under the auspices of the UN Commission on Sustainable Development. The wide range of issues covered by the authors in this volume reflects the breadth of the international debate, from national policies and activist campaigning, through economic and social objectives, to the sustainable management of forest and soil resources. Since the conservation campaigns of the 1980s, the focus of international concern has widened from tropical rain forests to all forest formations, in all regions, with increased recognition of global values and common responsibilities. However, while forest cover in some temperate countries is increasing, irrational deforestation, at historically unprecedented levels of damage to biodiversity and to other environmental values, remains most acute in tropical countries, where the need to use the natural resources for sustainable development is greatest, and the capability weakest. While accepting the urgency of the situation, and the need for greater coherence of action at a global level, the 1997 report of the IPF to the UN Commission emphasized the powers and responsibilities of national governments, and the importance of National Forest Programmes, but with the fuller participation of local communities, and with enhanced access to international assistance.

Ecology of Lianas

Tropical Forest Conservation and Development

The rain forests of Central and South America have long captured the attention and imagination of writers. From nineteenth century explorers to modern-day conservationists, a host of writers have put the rain forests into print. This is an annotated guide to over 1,600 works about the Central and South American jungles. Entries are arranged by category: Ecology and Conservation; Flora and Fauna; People of the Forest; Travel and Exploration; and Young Adult and Children's Reading. Each category begins with a brief description of what is to be found, followed by alphabetically arranged entries. Each bibliographic entry contains notes on the book's subject, focus, and scope. The book's introduction gives insight into its usage, and the index allows for easy reference. This annotated bibliography, covering topics from the Achuar Indians to zoologists, will lead the reader to resources as diverse and fascinating as the rain forests themselves.

Policy Options for Stabilizing Global Climate

Insects are the most abundant and diverse organisms that inhabit our planet and are found in all the world's forest ecosystems. Many feed and/or breed on parts of trees. Some perform important functions, such as pollination or break-down of dead vegetation. Others weaken, deform or kill trees, and compete with humans for the many goods and services that trees and forests provide. *Forest Entomology: A Global Perspective* examines forest insects in a global context and reviews their dynamics, interactions with humans and methods for monitoring and management of species that damage forests. Also provided are 235 profiles of forest insects, worldwide. A series of tables provides summaries of the distribution and hosts of many more species. Included are those that damage forests, others that are simply curiosities and some that are beneficial. This book is designed as a reference for students, practicing foresters and forest health specialists, especially for those who work internationally or are concerned with species that have the potential to expand their ranges via international trade, travel or environmental changes.

Soils of Tropical Forest Ecosystems

Changing Tropical Forests begins with an overview of the history of deforestation in tropical America and the tasks facing Latin American environmental historians. Based on proceedings of a 1991 conference sponsored by the Forest History Society and IUFRO Forest History Group in Costa Rica, the contributors offer detailed accounts of the environmental history of specific forest conditions, grasslands, and changing ecosystems of Costa Rica, Mexico, Surinam, and Brazil. the role of human intervention in this process of change is also discussed. Contributors. William Balée, James R. Barborak, Peter Boomgaard, Larissa V. Brown, Gerardo Budowski, John Dargavel, Warren Dean, Silvia del Amo R., Elizabeth Graham, J. Régis Guillaumon, Rhena Hoffmann, Sally P. Horn, Sebastião Kengen, Herman W. Konrad, Mary Pamela Lehmann, Robert D. Leier, Murdo J. MacLeod, M. Patricia Marchak, Elinor G. K. Melville, David M. Pendergast, Susan M. Pierce, Leslie E. Sponsel, Richard P. Tucker, Terry West

Forest Canopies

Protecting the Tropical Forests

Nature and Resources

Combining Conservation and Forestry in a Colombian Rain Forest

Malaysia is one of the world's most biologically diverse regions, but in recent years vast tracts of its forests have been cleared or degraded, with serious human and environmental consequences. *Vanishing Rain Forests* explores four closely related themes: first it describes the country's forests and the remarkable abundance and diversity of their flora and fauna; secondly, it outlines the processes and policies by which human activity has altered these forests since the early nineteenth century; thirdly, it examines some of the environmental, biological, and cultural consequences of such changes both past and present; and finally, it looks at what has been done to conserve the region's natural wealth and recommends changes that could put Malaysia on the path to a more sustainable future. Throughout the book, the need for a historical perspective is underscored. Environmentalists, biogeographers, botanists and others will find this monograph a cogent assessment of the challenges currently facing rain forest ecology.

Tropical Forests of the Guiana Shield

"Results of Anglo-Brazilian Climate Observation Study (ABRACOS), which sought to improve climate model predictions. Significant 29 chapter contribution provides a technical examination of the multifaceted environmental topics: soils, water storage, pastures, forest canopy, leaf dynamics, biomass, radiation, and carbon dioxide"--*Handbook of Latin American Studies*, v. 57.

Carbon, Nutrient and Water Balances of Tropical Rain Forest Ecosystems Subject to Disturbance

Lianas are woody vines that were the focus of intense study by early ecologists, such as Darwin, who devoted an entire book to the natural history of climbing plants. Over the past quarter century, there has been a resurgence in the study of lianas, and liana are again recognized as important components of many forests, particularly in the tropics. The increasing amount of research on lianas has resulted in a fundamentally deeper understanding of liana ecology, evolution, and life-history, as well as the myriad roles lianas play in forest dynamics and functioning. This book provides insight into the ecology and evolution of lianas, their anatomy, physiology, and natural history, their global abundance and distribution, and their wide-ranging effects on the myriad organisms that inhabit tropical and temperate forests.

Rain Forest Bibliography

Amazonian rain forest forms one of the most precious ecosystems and provides

habitat for more than 50% of plant and animal species. This unique ecosystem is highly disturbed by human activities, which causes biodiversity losses. Biodiversity monitoring and conservation plays one of the most important roles of tropical environment protection. This book focuses on the assessment of species diversity and species richness in various land use systems. This book also discusses the challenges and opportunities facing the Brazilian ecotourism industry and the establishment of an eco-triple helix in the Brazilian Amazon region. Over the past two decades, the international community has become aware of the global and regional environmental risks associated with possible massive forest losses in the Brazilian Amazon. The authors of this book investigate the stochastic and dynamic relationship of land use in the Brazilian Amazon. Other chapters in this book examine the main deforestation drivers of the Brazilian Amazon rainforests, the various factors (i.e., geological age, habitat heterogeneity) that generate and maintain fish species diversity in Amazon floodplain lakes, and the causes and effects of fish contamination due to malaria control in the Brazilian Amazon.

Rain Forest Regeneration and Management

Mineral Nutrients in Tropical Forest and Savanna Ecosystems

Case Studies of Exosystem Dynamics Under a Spectrum of Land Use-Intensities

Vanishing Rain Forests

Warren Dean chronicles the chaotic path to what could be one of the greatest natural disasters of modern times: the disappearance of the Atlantic Forest. A quarter the size of the Amazon Forest, and the most densely populated region in Brazil, the Atlantic Forest is now the most endangered in the world. It contains a great diversity of life forms, some of them found nowhere else, as well as the country's largest cities, plantations, mines, and industries. Continual clearing is ravaging most of the forested remnants. Dean opens his story with the hunter-gatherers of twelve thousand years ago and takes it up to the 1990s—through the invasion of Europeans in the sixteenth century; the ensuing devastation wrought by such developments as gold and diamond mining, slash-and-burn farming, coffee planting, and industrialization; and the desperate battles between conservationists and developers in the late twentieth century. Based on a great range of documentary and scientific resources, *With Broadax and Firebrand* is an enormously ambitious book. More than a history of a tropical forest, or of the relationship between forest and humans, it is also a history of Brazil told from an environmental perspective. Dean writes passionately and movingly, in the fierce hope that the story of the Atlantic Forest will serve as a warning of the terrible costs of destroying its great neighbor to the west, the Amazon Forest.

Critical Perspectives on Climate Disruption

Management of Tropical Secondary Rain Forests in Latin America

Publisher Description

Bibliographic Guide to Latin American Studies

Ecology Abstracts

Borneo in Transition

Amazonian Rain Forests

The Guiana Shield is an ancient geological formation located in the northern part of South America, covering an area of one million square kilometres. Despite its hostile environment, it is home to many unusual and highly specialized plants and animals, which constitute a rich area of biodiversity. Chapters in this book include hydrology, nutrient cycling, forest phenology, insect-plant interactions, forest microclimate, plant distributions, forest dynamics and conservation and management of flora and fauna. It provides a comprehensive and detailed review of the ecology, biology and natural history of the forests of the area.

Amazonian Deforestation and Climate

Ecology

'People in Nature' highlights South and Central American approaches to wildlife conservation and management strategy and discusses threats caused by ranching, habitat fragmentation, fishing and hunting.

A Monograph of Wallaba, Mora and Greenheart

Conservation Ecology

An introduction to tropical rain forests. What are tropical rain forest? Plant life. Rain forest animals. Interconnections between plants and animals - the web of life. Tropical rain forests through time. Forest dynamics. Nutrients and their cycles. Species richness. Tropical rain forests yesterday, today, and tomorrow.

Changing Tropical Forests

We live in an increasingly fragmented world, with islands of natural habitat cast adrift in a sea of cleared, burned, logged, polluted, and otherwise altered lands. Nowhere are fragmentation and its devastating effects more evident than in the tropical forests. By the year 2000, more than half of these forests will have been cut, causing increased soil erosion, watershed destabilization, climate degradation,

and extinction of as many as 600,000 species. *Tropical Forest Remnants* provides the best information available to help us understand, manage, and conserve the remaining fragments. Covering geographic areas from Southeast Asia and Australia to Madagascar and the New World, this volume summarizes what is known about the ecology, management, restoration, socioeconomics, and conservation of fragmented forests. Thirty-three papers present results of recent research as well as updates from decades-long projects in progress. Two final chapters synthesize the state of research on tropical forest fragmentation and identify key priorities for future work.

Journal of Tropical Forest Science

Tropical Rain Forest: A Wider Perspective

An understanding of the characteristics and the ecology of soils, particularly those of forest ecosystems in the humid tropics, is central to the development of sustainable forest management systems. The present book examines the contribution that forest soil science and forest ecology can make to sustainable land use in the humid tropics. Four main issues are addressed: characteristics and classification of forest soils, chemical and hydrological changes after forest utilization, soil fertility management in forest plantations and agroforestry systems as well as ecosystem studies from the dipterocarp forest region of Southeast Asia. Additionally, case studies include work from Guyana, Costa Rica, the Philippines, Malaysia, Australia and Nigeria. The papers have been developed from presentations given at the "International Congress on Soils of Tropical Forest Ecosystems/3rd Conference on Forest Soils" held in Balikpapan, Indonesia, and will be indispensable for all concerned with forest soil science and sustainable forestry in the humid tropics.

Beacham's Guide to Environmental Issues & Sources

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