

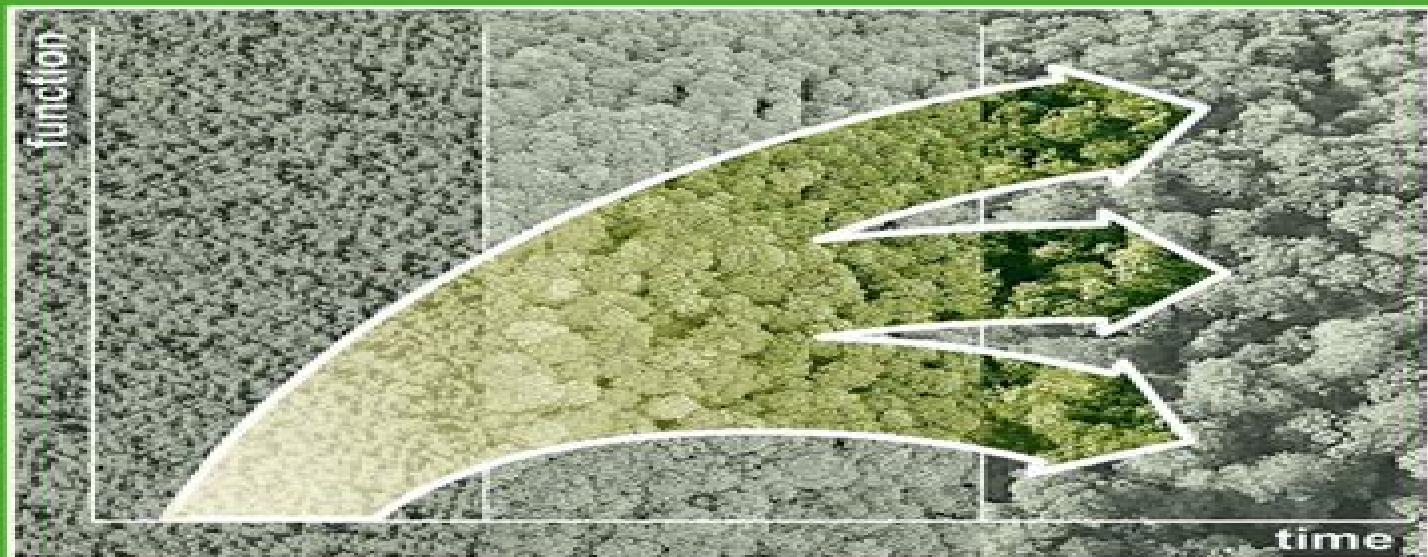
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Christian Wirth, Gerd Gleixner,  
Martin Heimann

*Editors*

# Old-Growth Forests

Function, Fate and Value



 Springer



# Old Growth Forests Function Fate And Value Ecological Studies

**Ramagopal V. S. Uppaluri, Latha  
Rangan**





## **Old Growth Forests Function Fate And Value Ecological Studies:**

*Old-Growth Forests* Christian Wirth, Gerd Gleixner, Martin Heimann, 2009-07-07 Many terms often used to describe old growth forests imply that these forests are less vigorous less productive and less stable than younger forests But research in the last two decades has yielded results that challenge the view of old growth forests being in decline Given the importance of forests in battling climate change and the fact that old growth forests are shrinking at a rate of 0.5% per year these new results have come not a moment too soon This book is the first ever to focus on the ecosystem functioning of old growth forests It is an exhaustive compendium of information that contains original work conducted by the authors In addition it is truly global in scope as it studies boreal forests in Canada temperate old growth forests in Europe and the Americas and global tropical forests Written in part to affect future policy this eminently readable book is as useful for the scientist and student as it is for the politician and politically interested layman

**Old-Growth Forests** Christian Wirth, Gerd Gleixner, Martin Heimann, 2009-08-29 Many terms often used to describe old growth forests imply that these forests are less vigorous less productive and less stable than younger forests But research in the last two decades has yielded results that challenge the view of old growth forests being in decline Given the importance of forests in battling climate change and the fact that old growth forests are shrinking at a rate of 0.5% per year these new results have come not a moment too soon This book is the first ever to focus on the ecosystem functioning of old growth forests It is an exhaustive compendium of information that contains original work conducted by the authors In addition it is truly global in scope as it studies boreal forests in Canada temperate old growth forests in Europe and the Americas and global tropical forests Written in part to affect future policy this eminently readable book is as useful for the scientist and student as it is for the politician and politically interested layman

*Ecology and Recovery of Eastern Old-Growth Forests* Andrew M. Barton, William S. Keeton, 2018-11-08 The landscapes of North America including eastern forests have been shaped by humans for millennia through fire agriculture hunting and other means But the arrival of Europeans on America's eastern shores several centuries ago ushered in the rapid conversion of forests and woodlands to other land uses By the twentieth century it appeared that old growth forests in the eastern United States were gone replaced by cities farms transportation networks and second growth forests Since that time however numerous remnants of eastern old growth have been discovered meticulously mapped and studied Many of these ancient stands retain surprisingly robust complexity and vigor and forest ecologists are eager to develop strategies for their restoration and for nurturing additional stands of old growth that will foster biological diversity reduce impacts of climate change and serve as benchmarks for how natural systems operate Forest ecologists William Keeton and Andrew Barton bring together a volume that breaks new ground in our understanding of ecological systems and their importance for forest resilience in an age of rapid environmental change This edited volume covers a broad geographic canvas from eastern Canada and the Upper Great Lakes states to the deep South It looks at a wide diversity of ecosystems



including spruce fir northern deciduous southern Appalachian deciduous southern swamp hardwoods and longleaf pine Chapters authored by leading old growth experts examine topics of contemporary forest ecology including forest structure and dynamics below ground soil processes biological diversity differences between historical and modern forests carbon and climate change mitigation management of old growth and more This thoughtful treatise broadly communicates important new discoveries to scientists land managers and students and breathes fresh life into the hope for sensible effective management of old growth stands in eastern forests

*Boreal Forests in the Face of Climate Change* Miguel Montoro Girona, Hubert Morin, Sylvie Gauthier, Yves Bergeron, 2023-03-01 This open access book explores a new conceptual framework for the sustainable management of the boreal forest in the face of climate change The boreal forest is the second largest terrestrial biome on Earth and covers a 14 million km<sup>2</sup> belt representing about 25% of the Earth's forest area Two thirds of this forest biome is managed and supplies 37% of global wood production These forests also provide a range of natural resources and ecosystem services essential to humanity However climate change is altering species distributions natural disturbance regimes and forest ecosystem structure and functioning Although sustainable management is the main goal across the boreal biome a novel framework is required to adapt forest strategies and practices to climate change This collaborative effort draws upon 148 authors in summarizing the sustainable management of these forests and detailing the most recent experimental and observational results collected from across the boreal biome It presents the state of sustainable management in boreal forests and highlights the critical importance of this biome in a context of global change because of these forests key role in a range of natural processes including carbon sequestration nutrient cycling and the maintaining of biodiversity This book is an essential read for academics students and practitioners involved in boreal forest management It outlines the challenges facing sustainable boreal forest management within the context of climate change and serves as a basis for establishing new research avenues identifying future research trends and developing climate adapted forest management plans

**The Paradigm of Forests and the Survival of the Fittest** Sergio A. Molina-Murillo, Carlos Rojas Alvarado, 2018-12-20 This book demonstrates the social historical and environmental framework within which humans have developed a relationship with the forest and its resources Starting from the biological basis that permits the existence of forests to the use of forest resources in a modern human context this book summarizes the interaction between humans and forest ecosystems Designed for readers from a broad range of disciplines and interests including those from environmental sciences environmental economics sociology anthropology biology forestry and human ecology and other related disciplines the book evokes interest in the development of an integrated approach towards forest ecosystems and natural resources in the context of sustainability

**Ecosystem Services, Biodiversity and Environmental Change in a Tropical Mountain Ecosystem of South Ecuador** Jörg Bendix, Erwin Beck, Achim Bräuning, Franz Makeschin, Reinhard Mosandl, Stefan Scheu, Wolfgang Wilcke, 2013-07-09 An interdisciplinary research unit consisting of 30 teams in the natural



economic and social sciences analyzed biodiversity and ecosystem services of a mountain rainforest ecosystem in the hotspot of the tropical Andes with special reference to past current and future environmental changes The group assessed ecosystem services using data from ecological field and scenario driven model experiments and with the help of comparative field surveys of the natural forest and its anthropogenic replacement system for agriculture The book offers insights into the impacts of environmental change on various service categories mentioned in the Millennium Ecosystem Assessment 2005 cultural regulating supporting and provisioning ecosystem services Examples focus on biodiversity of plants and animals including trophic networks and abiotic biotic parameters such as soils regional climate water nutrient and sediment cycles The types of threats considered include land use and climate changes as well as atmospheric fertilization In terms of regulating and provisioning services the emphasis is primarily on water regulation and supply as well as climate regulation and carbon sequestration With regard to provisioning services the synthesis of the book provides science based recommendations for a sustainable land use portfolio including several options such as forestry pasture management and the practices of indigenous peoples In closing the authors show how they integrated the local society by pursuing capacity building in compliance with the CBD ABS Convention on Biological Diversity Access and Benefit Sharing in the form of education and knowledge transfer for application

#### Conservation of Biodiversity in the North Eastern States of India

Ramagopal V. S. Uppaluri, Latha Rangan, 2023-03-23 This volume presents part of the proceedings of NERC 2022 with an emphasis on conservation of bio diversity in North east India This is a highly challenging and involved topic due to regionally diverse physiographic geographical and eco climatic conditions Henceforth systemic and holistic frameworks are required to disseminate upon the potential of science and technology for the conservation of the region s bio diversity Notable among these frameworks refers to plant microbial and animal bio diversity conservation value added product development and sharing the benefits of such research for the perspective of bio prospects analysing critical environmental and climatic factors and their sensitivity upon urbanization strategies Tools that are to be deployed for such insights involve plant animal and microbial bioscience and biotechnology generalized rules for product design and development and survey based strategies Addressing relevant competent methodologies and generic pedagogies this volume on the bio diversity conservation in North eastern states of India aims to demonstrate the potential of pragmatic strategies that can be applied for the bio diversity conservation in any region of world Thereby opportunities for nature linked livelihood security can be sought for the long term wellbeing of the humankind and ecology

**Forest Management for Timber Production and Climate Change Mitigation** Seppo Kellomäki, 2024-11-12 This book introduces the complex world of carbon dynamics within forest ecosystems particularly in boreal zones while also incorporating findings from selected temperate areas It explores how these dynamics are influenced by management strategies and operations providing a comprehensive understanding of how forests can be managed to enhance carbon uptake and thus mitigate climate change Divided into five



parts the volume begins by addressing the characteristics of global and boreal forests and their contribution to carbon storage. The following sections explore carbon dynamics in both natural and managed forests including their impact on forest succession. The text also examines how management practices affect carbon dynamics, tree growth and carbon stocks. Strategies to mitigate climate change through forest management including the management of soil carbon and reforestation efforts are discussed. Finally, topics such as pre-commercial management, commercial thinning and forest fertilization and their roles in managing boreal forest ecosystems for carbon sequestration and climate benefits are addressed. Aimed at professionals, researchers and students in forestry, environmental science and climate change studies, this book provides valuable insights into developing management strategies that enhance carbon uptake and accumulation in forest ecosystems. Readers will gain a comprehensive understanding of how forest management can contribute to climate change mitigation. It is an essential resource for anyone interested in sustainable forestry practices.

Biodiversity, Carbon Storage and Dynamics of Old Northern Forests Erik Framstad, Nordic Council of Ministers, 2013. Environmentally sound disposal of Ozone Depleting Substances is increasingly recognised as an important issue in terms of both the protection of the ozone layer and the effect on climate change. However, there is only a limited overview in the Nordic countries of product groups containing Ozone Depleting Substances, regulation of the substances available, treatment technologies and waste infrastructure etc. This report provides an overview of the waste treatment and regulation of Ozone Depleting Substances in the Nordic countries. The report identifies gaps, proposes solutions and provides recommendations for relevant Nordic efforts within the area.

*Carbon Sequestration in Forest Ecosystems* Klaus Lorenz, Rattan Lal, 2009-11-25. Carbon Sequestration in Forest Ecosystems is a comprehensive book describing the basic processes of carbon dynamics in forest ecosystems, their contribution to carbon sequestration and implications for mitigating abrupt climate change. This book provides the information on processes, factors and causes influencing carbon sequestration in forest ecosystems. Drawing upon most up to date references, this book summarizes the current understanding of carbon sequestration processes in forest ecosystems while identifying knowledge gaps for future research. Thus, this book is a valuable knowledge source for students, scientists, forest managers and policy makers.

Quantitative Techniques in Participatory Forest Management Eugenio Martinez-Falero, Susana Martin-Fernandez, Antonio D. Garcia-Abril, 2016-04-19. Forest management has evolved from a mercantilist view to a multi-functional one that integrates economic, social and ecological aspects. However, the issue of sustainability is not yet resolved. Quantitative Techniques in Participatory Forest Management brings together global research in three areas: application inventory of the forest variables that determine the main environmental indices, description and design of new environmental indices and the application of sustainability indices for regional implementations. All these quantitative techniques create the basis for the development of scientific methodologies of participatory sustainable forest management.

**Forest Hydrology and Biogeochemistry** Delphis F. Levia, Darryl



Carlyle-Moses, Tadashi Tanaka, 2011-06-15 This international rigorously peer reviewed volume critically synthesizes current knowledge in forest hydrology and biogeochemistry It is a one stop comprehensive reference tool for researchers and practitioners in the fields of hydrology biogeoscience ecology forestry boundary layer meteorology and geography Following an introductory chapter tracing the historical roots of the subject the book is divided into the following main sections Sampling and Novel Approaches Forest Hydrology and Biogeochemistry by Ecoregion and Forest Type Hydrologic and Biogeochemical Fluxes from the Canopy to the Phreatic Surface Hydrologic and Biogeochemical Fluxes in Forest Ecosystems Effects of Time Stressors and Humans The volume concludes with a final chapter that reflects on the current state of knowledge and identifies some areas in need of further research *Growth and Defence in Plants* Rainer Matyssek, Hans Schnyder, Wolfgang Oßwald, Dieter Ernst, Jean Charles Munch, Hans Pretzsch, 2012-09-15 This volume gathers a timely understanding of resource allocation and its regulation in herbaceous and woody plant systems linking molecular with biochemical and physiological process levels **Peatlands of the Western Guayana Highlands, Venezuela** Joseph Alfred Zinck, Otto Huber, 2011-08-04 The Guayana Highlands in northeastern tropical America rising from lowland rain forests and savannas up to 3000 m elevation are characterized by ancient tablelands called tepuis The peatlands that developed on the tepuis constitute unique and fascinating ecosystems and are the focus of this volume which starts with an overview of tropical and subtropical peats followed by an introduction to the geo ecological features of the Guayana region as a whole with special emphasis on the diversity of the vegetation cover from lowlands to uplands to highlands The core subject centers on the properties and dating of the peat deposits and the interpretation of the chronological record in terms of past environmental changes The well illustrated book will appeal to a broad range of scientists interested in tropical highland peats including quaternarists soil scientists geomorphologists geographers geologists ecologists botanists hydrologists conservationists and land use planners Sustainable Development Research and Practice in Mexico and Selected Latin American Countries Walter Leal Filho, Ricardo Noyola-Cherpitel, Pedro Medellín-Milán, Valeria Ruiz Vargas, 2017-11-27 This book provides an essential overview of sustainable development research in Mexico It discusses the empirical research methods and findings as well as practical initiatives and projects being pursued in Mexico and other countries in the region Although a number of Mexican universities are now conducting high quality research on matters related to sustainable development there are few publications that offer a multidisciplinary overview of research efforts for a broader audience This book addresses that gap in the literature providing researchers at Mexican universities including those from other countries working in Mexico with an opportunity to present their work i e curriculum innovations empirical work activities case studies and practical projects As such it fosters the exchange of information ideas and experiences successful initiatives and best practices *Canadian Journal of Forest Research* ,2016 *Restoration of Old Growth Forests in the Interior Highlands of Arkansas and Oklahoma* Douglas Henderson, Winrock International Institute for Agricultural Development, 1990



*Mangrove Dynamics and Management in North Brazil* Ulrich Saint-Paul, Horacio Schneider, 2010-09-30 Mangrove ecosystems are being increasingly threatened by human activities Their biotic productivity supplies food and other resources to the human populations that inhabit or make use of them This volume highlights the results of a ten year German Brazilian research project called MADAM in one of the largest continuous mangrove areas of the world located in northern Brazil Based on the analysis of the ecosystem dynamics management strategies for the conservation and sustainable use of mangroves are presented and discussed Beyond the scientific results this book also provides guidelines for the development of international cooperation projects

**Functioning and Management of European Beech Ecosystems** Rainer Brumme, Partap K. Khanna, 2009-08-07 Temperate forests cover large areas of Europe and perform a number of important functions such as the regulation of energy and matter production of wood and other resources and conservation of biodiversity and habitats they also have special significance in social and cultural contexts Initiated in 1960s the first International Biological Program IBP focused on the biological basis of productivity and human welfare As the German contribution to the IBP ecosystem research has been carried out since 1966 in the Solling area Ellenberg H Ecological Studies 2 1971 an upland region in Northwest Germany This study provided clear evidence that the stability of forest ecosystems was threatened by the high inputs of atmospheric pollutants This promoted many interdisciplinary research programs which were coordinated by Prof Dr Bernhard Ulrich and the Forest Ecosystems Research Center of the University of Göttingen This involved in addition to the Solling site the establishment of two other sites for long term monitoring of ecosystem processes The two contrasting sites were established in 1980 at Gottinger Wald on base rich calcareous soil and in 1989 at Zierenberg on volcanic soil These projects were funded initially by the Federal Ministry of Research and Technology BMBF as interdisciplinary projects under the titles Conditions of Stability of Forest Ecosystems 1989 1993 and Dynamics of Forest Ecosystems 1993 1998 The primary goal of these studies was to quantify the ecological condition of forests in a changing environment and element fluxes

Forest Entomology and Pathology Jeremy D. Allison, Timothy D. Paine, Bernard Slippers, Michael J. Wingfield, 2023-06-30 This open access book will provide an introduction to forest entomology the principles and techniques of forest insect pest management the different forest insect guilds feeding groups and relevant forest insect pest management case studies In addition to covering 30% of the earth forest ecosystems provide numerous timber and non timber products that affect our daily lives and recreational opportunities habitat for diverse animal communities watershed protection play critical roles in the water cycle and mitigate soil erosion and global warming In addition to being the most abundant organisms in forest ecosystems insects perform numerous functions in forests many of which are beneficial and critical to forest health Conversely some insects damage and or kill trees and reduce the capacity of forests to provide desired ecosystem services The target audience of this book is upper level undergraduate and graduate students and professionals interested in forest health and entomology



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