

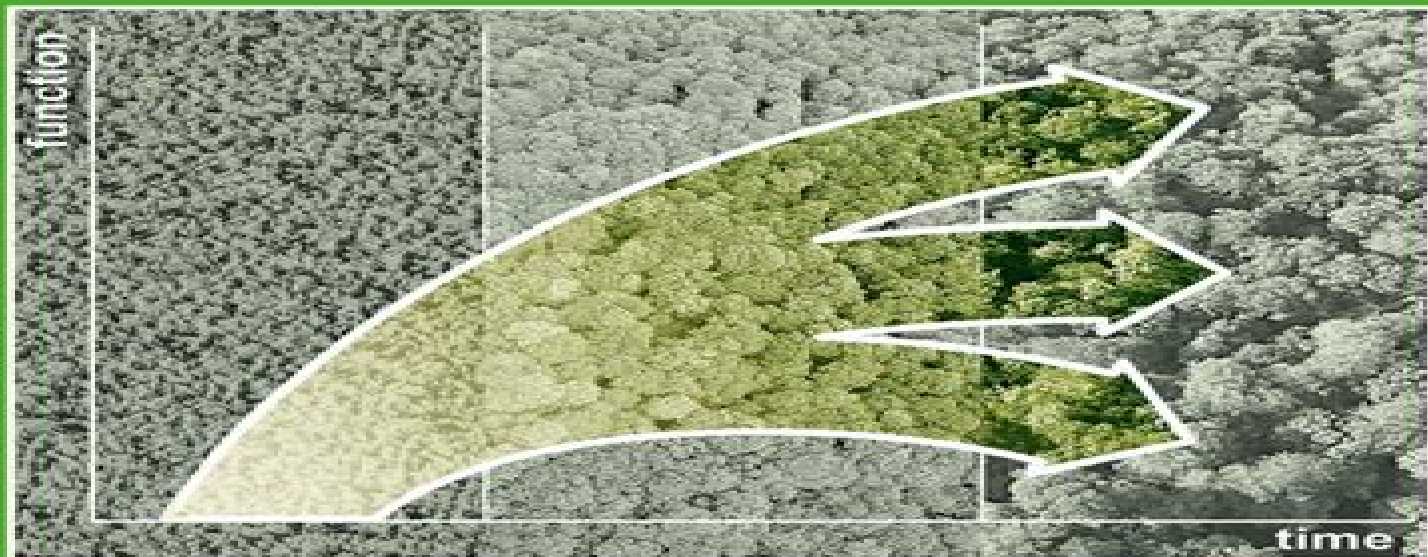
Ecological Studies 207

Christian Wirth, Gerd Gleixner,
Martin Heimann

Editors

Old-Growth Forests

Function, Fate and Value



Old Growth Forests Function Fate And Value Ecological Studies

Ecological Society of America



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 km² 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, 2016-03-30 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 biodiversity 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 biodiversity Notable among these frameworks refers to plant microbial and animal biodiversity 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 biodiversity conservation in North eastern states of India aims to demonstrate the potential of pragmatic strategies that can be applied for the biodiversity 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

Natural forests for a safe climate: Enhancing ecosystem integrity, biodiversity and adaptive capacity for climate mitigation Alfredo Di Filippo, Brendan George Mackey, William R. Moomaw, 2024-05-06 *Canadian Journal of Forest Research* ,2016 The Value of Old Growth Forest Ecosystems of the Eastern United States ,1993 Old Growth Forests, a Balanced Perspective ,1982 **Old Growth Forests** ,1982 **Choice** ,2009 **The Northwest Environmental Journal** ,1993 **Short-term Forest Growth and Productivity in and Around Experimental Canopy Gaps in a Northern Hardwood Forest, Wisconsin** Jacob H. Dyer, 2009 **Bulletin of the Ecological Society of America** Ecological Society of America, 1990 **Natural Areas Journal** ,1988 **Virginia Wildlife** ,2018 **The Ohio Journal of Science** ,1998 Includes book reviews and abstracts

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