



ECOPHYSIOLOGY  
OF CONIFEROUS  
FORESTS

— EDITED BY —

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Academic Press

# Ecophysiology Of Coniferous Forests

**RJ Alexander**



## **Ecophysiology Of Coniferous Forests:**

**Ecophysiology of Coniferous Forests** William K. Smith, 2013-10-22 Conifers pine fir and spruce trees are dominant species in forests around the world This book focuses on the physiology of conifers and how these physiological systems operate Special consideration is devoted to the means by which ecophysiological processes influence organismal function and distribution Chapters focus on the genetics of conifers their geographic distribution and the factors that influence this distribution the impact of insect herbivory on ecophysiological parameters the effects of air pollution and the potential impact that global climatic changes will have upon conifers Because of the growing realization that forests have a crucial role to play in global environmental health this book will appeal to a developing union of ecologists physiologists and more theoretically minded foresters

**Conifers** William K Smith, William K. Smith, 1994-12 Conifers pine fir and spruce trees are dominant species in forests around the world This book focuses on the physiology of conifers and how physiological systems operate Special consideration is devoted to the means by which ecophysiological processes influence organismal function and distribution Chapters focus on the genetics of conifers their growth and geographic distribution and the factors that influence this distribution the impact of insect herbivory and winter dormancy on ecophysiological parameters the effects of air pollution and the potential impact that global climatic changes will have upon conifers With the growing realization that forests have a crucial role to play in global environmental health this book will appeal to a developing union of ecologists physiologists and theoretical foresters

**Carbon and Nitrogen Cycling in European Forest Ecosystems** Ernst-Detlef Schulze, 2013-12-01 The storage of carbon in forest ecosystems has received special attention in the Kyoto protocol of the Climate Convention which attempts to equilibrate fossil fuel emissions with biological sinks This volume quantifies carbon storage in managed forest ecosystems not only in biomass but also in all soil compartments It investigates the interaction between the carbon and nitrogen cycles by working along a north south transect through Europe which starts in northern Sweden passes through a N deposition maximum in central Europe and ends in Italy Surprisingly C storage in soils increases with N deposition in addition not young reforestations but old growth forests have the highest rate of carbon sequestration For the first time biogeochemical processes are linked to biodiversity on a large geographic scale and with special focus on soil organisms The enclosed CD ROM provides a complete database of all flux storage and species observations for modellers

Ecology and Biogeography of Pinus David M. Richardson, 2000-07-31 A comprehensive review essential for all involved in the management of natural and planted pine forests

*Forest Ecosystems* Richard H. Waring, S. W. Running, 1998 Cycles water carbon

Proceedings of the Estonian Academy of Sciences, Biology and Ecology, 2002-09

**Principles of Terrestrial Ecosystem Ecology** F Stuart Chapin III, Pamela A. Matson, Harold A. Mooney, 2006-04-10 Human activities are affecting the global environment in myriad ways with numerous direct and indirect effects on ecosystems The climate and atmospheric composition of Earth are changing rapidly Humans have directly modified half of the ice free terrestrial surface

and use 40% of terrestrial production Our actions are causing the sixth major extinction event in the history of life on Earth and are radically modifying the interactions among forests, rivers, streams, and oceans This book was written to provide a conceptual basis for understanding terrestrial ecosystem processes and their sensitivity to environmental and biotic changes We believe that an understanding of how ecosystems operate and change must underlie our analysis of both the consequences and the mitigation of human caused changes This book is intended to introduce the science of ecosystem ecology to advanced undergraduate students, beginning graduate students, and practicing scientists from a wide array of disciplines We also provide access to some of the rapidly expanding literature in the many disciplines that contribute to ecosystem understanding

Functional Plant Ecology Francisco Pugnaire, Fernando Valladares, 2007-06-20 Following in the footsteps of the successful first edition, Functional Plant Ecology Second Edition remains the most authoritative resource in this multidisciplinary field Extensively revised and updated, this book investigates plant structure and behavior across the ecological spectrum It features the ecology and evolution of plant crowns and a

Seed Ecophysiology of Temperate and Boreal Zone Forest Trees Robert E. Farmer, 2017-11-01 This is the first truly modern book solely devoted to seed reproduction of forest trees from flowering to establishment with emphasis on the interaction of environment with physiological processes Focus is on seed function in natural settings and the application of information to natural regeneration of forests This easy to read text addresses important principles and provides in depth coverage of existing literature Presentation of the information is organized to allow for a natural development of the main theme with full explanations of such important components as seed production, dispersal, and germination as well as the integral parts played by water, temperature, light, chemicals, animals, pathogens, and aging A highly useful book for investigators, practitioners, or students

Physiological Ecology of North American Plant Communities Brian F. Chabot, 2012-12-06 Although as W D Billings notes in his chapter in this book the development of physiological ecology can be traced back to the very beginnings of the study of ecology, it is clear that the modern development of this field in North America is due in the large part to the efforts of Billings alone The foundation that Billings laid in the late 1950s came from his own studies on deserts and subsequently arctic and alpine plants and also from his enormous success in instilling enthusiasm for the field in the numerous students attracted to the plant ecology program at Duke University Billings' own studies provided the model for subsequent work in this field Physiological techniques normally confined to the laboratory were brought into the field to examine processes under natural environmental conditions These field studies were accompanied by experiments under controlled conditions where the relative impact of various factors could be assessed and further where genetic as opposed to environmental influences could be separated This blending of field and laboratory approaches promoted the design of experiments which were of direct relevance to understanding the distribution and abundance of plants in nature Physiological mechanisms were studied and assessed in the context of the functioning of plants under natural conditions rather than as an end in itself

**Plant Physiological Ecology**

Hans Lambers, Rafael S. Oliveira, 2019-12-11 Growth reproduction and geographical distribution of plants are profoundly influenced by their physiological ecology the interaction with the surrounding physical chemical and biological environments This textbook highlights mechanisms that underlie plant physiological ecology at the levels of physiology biochemistry biophysics and molecular biology At the same time the integrative power of physiological ecology is well suited to assess the costs benefits and consequences of modifying plants for human needs and to evaluate the role of plants in natural and managed ecosystems Plant Physiological Ecology Third Edition is significantly updated with many full color illustrations and begins with the primary processes of carbon metabolism and transport plant water relations and energy balance After considering individual leaves and whole plants these physiological processes are then scaled up to the level of the canopy Subsequent chapters discuss mineral nutrition and the ways in which plants cope with nutrient deficient or toxic soils The book then looks at patterns of growth and allocation life history traits and interactions between plants and other organisms Later chapters deal with traits that affect decomposition of plant material and with the consequences of plant physiological ecology at ecosystem and global levels Plant Physiological Ecology Third Edition features several boxed entries that extend the discussions of selected issues a glossary and numerous references to the primary and review literature This significant new text is suitable for use in plant ecology courses as well as classes ranging from plant physiology to plant molecular biology

**Relationship between Forest Ecophysiology and Environment** Roberto Tognetti, John D.

Marshall, 2021-06-04 Ecophysiological mechanisms underlie plant responses to environmental conditions and the influence these responses have on ecological patterns and processes In this Special Issue with a particular interest in the interactions between climate change environmental disturbance and functional ecology experimental observations are described at a range of spatial scales A modeling framework is used in an effort to relate mechanistic responses to ecosystem functions and services and link forest ecophysiology and environmental indicators This Special Issue collects important advances in studying and monitoring plant environment interactions covering biogeographic gradients from Mediterranean woodlands to boreal forests and from Alpine mountains to tropical environments

**Autoecology and Ecophysiology of Woody Shrubs and Trees** Ratikanta Maiti, Humberto Gonzalez Rodriguez, Natalya Sergeevna Ivanova, 2016-04-08 Forest trees and shrubs play vital ecological roles reducing the carbon load from the atmosphere by using carbon dioxide in photosynthesis and by the storage of carbon in biomass and wood as a source of energy Autoecology deals with all aspects of woody plants the dynamism of populations physiological traits of trees light requirements life history patterns and physiological and morphological characters Ecophysiology is defined by various plant growth parameters such as leaf traits xylem water potential plant height basal diameter and crown architecture which are in turn influenced by physiological traits and environmental conditions in the forest ecosystem In short this book details research advances in various aspects of woody plants to help forest scientists and foresters manage and protect forest trees and plan their future research Autoecology and

Ecophysiology of Woody Shrubs and Trees is intended to be a guide for students of woody plant autecology and ecophysiology as well as for researchers in this field. It is also an invaluable resource for foresters to assist in effective management of forest resources.

**Animals' Influence on the Landscape and Ecological Importance** Friedrich-Karl Holtmeier, 2014-10-22 In its first English language edition this book introduces the many faceted interactions of animal populations with their habitats. From soil fauna ants and termites to small and large herbivores burrowing mammals and birds the author presents a comprehensive analysis of animals and ecosystems that is as broad and varied as all nature. Chapter 2 addresses the functional role of animals in landscape ecosystems emphasizing fluxes of energy and matter within and between ecosystems and the effects of animals on qualitative and structural habitat change. Discussion includes chapters on the role of animal population density and the impacts of native herbivores on vegetation and habitats from the tropics to the polar regions. Cyclic mass outbreaks of species such as the larch bud moth in Switzerland the mountain pine beetle and the African red billed weaver bird are described and analyzed. Other chapters discuss Zoochory the dispersal of seeds by ants mammals and birds and the influence of burrowing animals on soil development and geomorphology. Consideration extends to the impact of feral domestic animals. Chapter 5 focuses on problems resulting from introduction of alien animals and from re introduction of animal species to their original habitats discusses the effects on ecosystems of burrowing digging and trampling by animals. The author also addresses keystone species such as kangaroo rats termites and beavers. Chapter 6 addresses the role of animals in landscape management and nature conservation with chapters on the impact of newcomer species such as animals introduced into Australia New Zealand and Europe and the consequences of reintroduction of species to original habitat. It also discusses the carrying capacity of natural habitat public attitudes toward conservation and more. The final section ponders the effects of climate on interactions between animals and their habitats.

Applications of Physiological Ecology to Forest Management J. J. Landsberg, S. T. Gower, 1997-01-08 Forest management is a complex process that now incorporates information obtained from many sources. It is increasingly obvious that the physiological status of the trees in a forest has a dramatic impact on the likely success of any particular management strategy. Indeed models described in this book that deal with forest productivity and sustainability require physiological information. This information can only be obtained from an understanding of the basic biological mechanisms and processes that contribute to individual tree growth. This valuable book illustrates that physiological ecology is a fundamental element of proficient forest management. Provides essential information relevant to the continuing debate over sustainable forest management. Outlines how modern tools for physiological ecology can be used in planning and managing forest ecosystems. Reviews the most commonly used forest models and assesses their value and future.

**Experimental Ecophysiology and Biochemistry of Trees and Shrubs** Humberto González Rodríguez, Ratikanta Maiti, Ch. Aruna Kumari, 2020-11-01 The existence and competition of trees and shrubs to sustain and put forth growth under varied environmental conditions is dependent on the

interactions that occur between the plant metabolic processes and the prevailing environmental conditions In order to understand the productivity of trees and shrubs it is a prerequisite to know the experimental techniques of these vital processes This volume provides a comprehensive presentation of this topic The first part of this book deals with various aspects of experimental ecophysiology and recent research results of studies on plant pigments epicuticular wax leaf nutrients carbon fixation all supported by literature The second part of the volume describes various laboratory techniques such as diffusion imbibition calorimetry atomic absorption mineral nutrition nutrition analysis of forage litterfall chemistry nutrient cycle etc The third and fourth parts deal with advances in the techniques in the development of ecophysiology The book will serve as an important handbook and resource for students faculty and teachers technicians and researchers and scientists involved in forest science dealing with ecophysiology and biochemistry of woody and crop plants **Coniferous Forests** F.A. Andersson, 2005-12-15 Starting with an account of the history and distribution of the conifers this volume describes the most important areas in Asia Europe North and South America with conifer forests The last in the Ecosystem of the World series it deals with the functional aspects of the conifer forests such as physiology production biomass and more

*Ecological Climatology* Gordon B. Bonan, 2008-09-18 This book introduces an interdisciplinary framework to understand the interaction between terrestrial ecosystems and climate change It reviews basic meteorological hydrological and ecological concepts to examine the physical chemical and biological processes by which terrestrial ecosystems affect and are affected by climate The textbook is written for advanced undergraduate and graduate students studying ecology environmental science atmospheric science and geography The central argument is that terrestrial ecosystems become important determinants of climate through their cycling of energy water chemical elements and trace gases This coupling between climate and vegetation is explored at spatial scales from plant cells to global vegetation geography and at timescales of near instantaneous to millennia The text also considers how human alterations to land become important for climate change This restructured edition with updated science and references chapter summaries and review questions and over 400 illustrations including many in colour serves as an essential student guide *Plant Physiological Ecology* H.

Lambers, Francis Stuart Chapin (III), Thijs Leendert Pons, 1998 The growth reproduction and geographical distribution of plants are profoundly influenced by their physiological ecology the interaction with the surrounding physical chemical and biological environments This textbook is notable in emphasizing that the mechanisms underlying plant physiological ecology can be found at the levels of biochemistry biophysics molecular biology and whole plant physiology At the same time the integrative power of physiological ecology is well suited to assess the costs benefits and consequences of modifying plants for human needs and to evaluate the role of plants in ecosystems Plant Physiological Ecology begins with the primary processes of carbon metabolism and transport plant water relations and energy balance After considering individual leaves and whole plants these physiological processes are then scaled up to the level of the canopy Subsequent chapters discuss mineral

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