



TREE-RING ANALYSIS
BIOLOGICAL,
METHODOLOGICAL AND
ENVIRONMENTAL ASPECTS

EDITED BY R. WIMMER & R.E. VETTER



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Tree Ring Analysis Biological Methodological And Environmental Aspects

Dieter Overdieck



Tree Ring Analysis Biological Methodological And Environmental Aspects:

Tree-ring Analysis Rupert Wimmer, Roland E. Vetter, 1999 The analysis of tree rings has been critically important in all kinds of environmental studies including forest decline ecological prognosis on a large scale and climate trends for the past decades to millennia It may also provide important knowledge for forest management and the forest product industry This book has been developed from an IUFRO meeting in Washington State USA in July 1997 and describes the latest achievements and challenges in tree ring research from around the world

Growth Dynamics of Conifer Tree Rings Eugene A. Vaganov, Malcolm K. Hughes, Alexander V. Shashkin, 2006-03-12 Each tree ring contains an image of the time when the ring formed projected onto the ring's size structure and composition Tree rings thus are natural archives of past environments and contain records of past climate While dendrochronologists have investigated the impact of climate on tree ring growth by empirical statistical methods this volume presents a process based model complementing previous approaches Basic ideas concerning the biology of tree ring growth and its control by environmental factors are treated especially for conifers The use of the model is illustrated by means of several examples from widely differing environments and possible future directions for model development and application are discussed The volume provides an improved mechanistic basis for the interpretation of tree rings as records of past climate It advances process understanding of the large scale environmental control of wood growth As forests are the main carbon sink on land the results are of great importance for all global change studies

Routledge Handbook of Forest Ecology Kelvin S.-H. Peh, Richard T. Corlett, Yves Bergeron, 2015-10-16 This comprehensive handbook provides a unique resource covering all aspects of forest ecology from a global perspective It covers both natural and managed forests from boreal temperate sub tropical and tropical regions of the world The book is divided into seven parts addressing the following themes forest types forest dynamics forest flora and fauna energy and nutrients forest conservation and management forests and climate change human impacts on forest ecology While each chapter can stand alone as a suitable resource for a lecture or seminar the complete book provides an essential reference text for a wide range of students of ecology environmental science forestry geography and natural resource management Contributors include leading authorities from all parts of the world

CO₂, Temperature, and Trees Dieter Overdieck, 2016-10-22 This comprehensive book discusses the ecophysiological features of trees affected by the two most prominent factors of climate change atmospheric CO₂ concentration and temperature It starts with the introduction of experimental methods at the leaf branch the whole tree and tree group scales and in the following chapters elaborates on specific topics including photosynthesis of leaves respiration of plant organs water use efficiency the production of and or distribution patterns of carbohydrates secondary metabolites and nutrients anatomy of cells and tissues height and stem diameter growth biomass accumulation leaf phenology and longevity and model ecosystems soil litter plant enclosures The current knowledge is neatly summarized and the author presents valuable data derived from his 30 years of

experimental research some of which is published here for the first time Using numerous examples the book answers the fundamental questions such as What are the interactions of elevated CO₂ concentration and temperature on tree growth and matter partitioning How do different tree groups react Are there any effects on organisms living together with trees What kinds of models can be used to interpret the results from experiments on trees This volume is highly recommended for researchers postdocs and graduate students in the relevant fields It is also a valuable resource for undergraduate students decision makers in the fields of forest management and environmental protection and any other scientists who are interested in the effect of global change on ecosystems Latin American Dendroecology Marín Pompa-García, J. Julio

Camarero, 2020-03-14 Latin America is a megadiverse territory hosting several hotspots of plant diversity and many types of forest biomes ecosystems and climate types from tropical rainforest to semi arid woodlands This combination of diverse forests and climates generates multiple responses to ecological changes affecting the structure and functioning of forest ecosystems Recently there have been major efforts to improve our understanding of such impacts on ecosystems processes However there is a dearth of studies focused on Latin American forest ecosystems that could provide novel insights into the patterns and mechanisms of ecological processes in response to environmental stress The abundance of New World tree species with dendrochronological potential constitutes an ideal opportunity to improve the ecological state of knowledge regarding these diverse forest types which are often threatened by several impacts such as logging or conversion to agricultural lands Thus detailed information on the dendroecology of these species will improve our understanding of forests in the face of global change Accordingly this book identifies numerous relevant ecological processes and scales ranging from tree species to populations and communities and from both dendrochronological and dendroecological perspectives It offers a valuable reference guide for the exploration of long term ecological interactions between trees and their environmental conditions and will foster further research and international projects on the continent and elsewhere

Dendroclimatology Malcolm K. Hughes, Thomas W. Swetnam, Henry F. Diaz, 2010-10-28 A top priority in climate research is obtaining broad extent and long term data to support analyses of historical patterns and trends and for model development and evaluation Along with directly measured climate data from the present and recent past it is important to obtain estimates of long past climate variations spanning multiple centuries and millennia These longer time perspectives are needed for assessing the unusualness of recent climate changes as well as for providing insight on the range variation and overall dynamics of the climate system over time spans exceeding available records from instruments such as rain gauges and thermometers Tree rings have become increasingly valuable in providing this long term information because extensive data networks have been developed in temperate and boreal zones of the Earth and quantitative methods for analyzing these data have advanced Tree rings are among the most useful paleoclimate information sources available because they provide a high degree of chronological accuracy high replication and extensive spatial coverage spanning recent centuries With the

expansion and extension of tree ring data and analytical capacity new climatic insights from tree rings are being used in a variety of applications including for interpretation of past changes in ecosystems and human societies This volume presents an overview of the current state of dendroclimatology its contributions over the last 30 years and its future potential The material included is useful not only to those who generate tree ring records of past climate dendroclimatologists but also to users of their results climatologists hydrologists ecologists and archeologists With the pressing climatic questions of the 21st century demanding a deeper understanding of the climate system and our impact upon it this thoughtful volume comes at critical moment It will be of fundamental importance in not only guiding researchers but in educating scientists and the interested lay person on the both incredible power and potential pitfalls of reconstructing climate using tree ring analysis Glen M MacDonald UCLA Institute of the Environment CA USA This is an up to date treatment of all branches of tree ring science by the world s experts in the field reminding us that tree rings are the most important source of proxy data on climate change Should be read by all budding dendrochronology scientists Alan Robock Rutgers University NJ USA

The Polish Climate in the European Context: An Historical Overview Rajmund Przybylak, Jacek Majorowicz, Rudolf Brázdil, Marek Kejan, 2009-12-03 Reconstruction of the climate variability of the past 500 years is a topic of great scientific interest not only in global terms but also at regional and local levels This period is interesting on account of the increasing influence of anthropogenic forcing and its overlap with natural factors The Polish Climate in the European Context An Historical Overview summarises the results of research into climate variability based on a combination of instrumental documentary dendrochronological and borehole data from Poland The first part of the book provides a Central European perspective of research in these fields which forms the general background for a presentation of the state of the art of climatic change studies in Poland during the past 500 years Part 2 This is followed by a selection of papers dealing mainly with different aspects of climate variability in Poland and Central Europe Part 3 This book is a valuable tool integrating Polish Central and Eastern European climate research into the global context It is as such a must for climate researchers worldwide Gaston Demare Royal Meteorological Institute of Belgium This volume marks a significant step forward in our understanding of European climatic history Christian Pfister University of Bern

Application of Dendroclimatological Methods for Forest Growth Modelling Maris Hordo, 2011

Studying Tree Responses to Extreme Events Achim Bräuning, Andreas Bolte, Cristina Nabais, Sergio Rossi, Ute Sass-Klaassen, 2017-06-05 Trees are among the longest living organisms They are sensitive to extreme climatic events and document the effects of environmental changes in form of structural modifications of their tissues These modifications represent an integrated signal of complex biological responses enforced by the environment For example temporal change in stem increment integrates multiple information of tree performance and wood anatomical traits may be altered by climatic extremes or environmental stress Recent developments in preparative tools and computational image analysis enable to quantify changes in wood anatomical features like vessel

density or vessel size Thus impacts on their functioning can be related to climatic forcing factors Similarly new developments in monitoring cambial phenology and mechanistic modelling are enlightening the interrelationships between environmental factors wood formation and tree performance and mortality Quantitative wood anatomy is a reliable indicator of drought occurrence during the growing season and therefore has been studied intensively in recent years The variability in wood anatomy not only alters the biological and hydraulic functioning of a tree but may also influence the technological properties of wood with substantial impacts in forestry On a larger scale alterations of sapwood and phloem area and their ratios to other functional traits provide measures to detect changes in a tree s life functions and increasing risk of drought induced mortality with possible impacts on hydrological processes and species composition of plant communities Genetic variability within and across populations is assumed to be crucial for species survival in an unpredictable future world The magnitude of genetic variation and heritability of adaptive traits might define the ability to adapt to climate change Is there a relation between genetic variability and resilience to climate change Is it possible to link genetic expression and climate change to obtain deeper knowledge of functional genetics To derive precise estimates of genetic determinism it is important to define adaptive traits in wood properties and on a whole tree scale Understanding the mechanisms ruling these processes is fundamental to assess the impact of extreme climate events on forest ecosystems and to provide realistic scenarios of tree responses to changing climates Wood is also a major carbon sink with a long term residence impacting the global carbon cycle How well do we understand the link between wood growth dynamics wood carbon allocation and the global carbon cycle Papers contribution to this Research Topic will cover a wide range of ecosystems However special relevance will be given to Mediterranean type areas These involve coastal regions of four continents making Mediterranean type ecosystems extremely interesting for investigating the potential impacts of global change on growth and for studying responses of woody plants under extreme environmental conditions For example the ongoing trend towards warmer temperatures and reduced precipitation can increase the susceptibility to fire and pests The EU funded COST Action STREeSS Studying Tree Responses to extreme Events a SynthesiS addresses such crucial tree biological and forest ecological issues by providing a collection of important methodological and scientific insights about the current state of knowledge and by opinions for future research needs

Insights in Plant Biophysics and Modeling: 2021 Maciej Andrzej Zwieniecki,2022-11-23 *Unasylva* ,2000
Tree-ring Research ,2005 *IAWA Journal* ,2006 *Arctic, Antarctic, and Alpine Research* ,2005 **The Formation of Wood in Tropical Forest Trees** ,2008 **Tree Growth** Wesley P. Karam,2009 Growth is the biological phenomenon of increase in size with time The sudden increase in tree diameter often observed after rain is not due to growth but reflects the effects of bark swell The relationships of tree size to age and increment to age are also important to the forester particularly in predicting future growth In any one growing season different parts of a tree start growing at different times Different species may also react differently Generally height growth precedes any diameter growth or needle flush The progression of

terminal bud extension main stem and branches is basipetally i.e. extension growth starts at the top of the tree and progressively moves downwards towards the base The amount of height growth in any one season depends on hereditary factors immediate past environmental conditions and present environmental conditions Diameter growth also proceeds basipetally and is much more related to current foliage and present environmental conditions The book presents the most up to date research in the field

Forest Dynamics in Heavily Polluted Regions John L. Innes, J. Oleksyn, 2000 Air pollution has been recognized as a potential problem for forests for nearly 150 years Today sulphur dioxide fluorides heavy metals and ozone are a significant problem usually from large scale sources in industrial and urban areas Problems are exacerbated in those regions where there is a poor understanding of the factors involved in forest decline and destruction and no rigorous control over it has been established This book is the first report from the International Union of Forest Research Organization's IUFRO Task Force on Environmental Change and provides an assessment of the extent of air pollution impacts on forests in heavily polluted regions It includes case studies from Russia Ontario Canada California and the Mediterranean region It is also the first volume in a new book series covering many areas of forestry research published by CABI Publishing in association with IUFRO

The International Forestry Review, 1999 **TRACE: Proceedings of the Dendrosymposium 2005, April 21st-23rd 2005, Fribourg, Switzerland**, 2003 **Proceedings of the Second Montane Longleaf Conference Workshop**, 2006

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