

MANAGING FOREST ECOSYSTEMS

Continuous Cover Forestry

Assessment, Analysis, Scenarios

Edited by

Klaus von Gadow, Jürgen Nagel and Joachim Saborowski



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Continuous Cover Forestry Assessment Analysis Scenarios

Arne Pommerening, Pavel Grabarnik



Continuous Cover Forestry Assessment Analysis Scenarios:

Continuous Cover Forestry Klaus von Gadow, Jürgen Nagel, Joachim Saborowski, 2013-03-09 The large scale application of new silvicultural systems has become a political reality in many parts of the world This involves a gradual transformation of traditional silvicultural practice towards Continuous Cover Forestry also known as near natural forest management favouring mixed uneven aged stands site adapted tree species and selective harvesting Selective harvesting systems have a long tradition Specific CCF related resource assessment forecasting and sustainable harvest control techniques have been developed but details about their use are not widely known The objective of this volume is to present state of the art research results and techniques relating to CCF management with an emphasis on systems engineering and modelling Using a very simple classification based on the development of timber volume over age or time we may distinguish two types of sustainable forest management systems Rotation forest management RFM systems characterized by standard silvicultural treatments and repetitive cycles of clearfelling followed by planting and continuous cover forestry CCF systems which are characterized by selective harvesting and natural regeneration resulting in uneven aged structures and frequently also in multi species forests The distinction is usually the result of decisions relating to the cost of timber harvesting simplicity of management or various intangible benefits The oldest and most perfect examples of CCF systems are the so called plenter selection forests found in France Switzerland Slovenia and Germany Today CCF systems are encountered in various regions of Europe North America and in some tropical and sub tropical forests of South Africa Asia and South America

Continuous Cover Forestry ,2001 *Continuous Cover Forestry* Arne Pommerening, 2023-09-25 CONTINUOUS COVER FORESTRY Gain expertise in the development of healthier more sustainable forests with this indispensable guide Continuous Cover Forestry CCF is an approach to forest management with over a century of history one which applies ecological principles to the project of developing biologically diverse structurally complex forests Long used as the standard forest management method in Central Europe CCF is generating renewed interest globally for its potential to develop and sustain forests that can withstand climate change impacts maintain forest biodiversity in the face of major ecological challenges and offer better recreation experience There is an increasingly urgent need for forest scientists and policymakers to be familiar with the toolkit provided by CCF Continuous Cover Forestry Theories Concepts and Implementation provides a thorough up to date introduction to the theory and practice of CCF Beginning with an overview of the method s history and its foundational principles the book provides detailed guidance for applying CCF methods to a range of ecological scenarios and forest types The result is a clear comprehensive portrait of this increasingly effective set of forestry tools Continuous Cover Forestry readers will also find Case studies throughout showing CCF at work in real world forests Detailed discussion of topics such as forest structure transformation silvicultural systems training carbon forestry conservation and more R code ready to take and apply Simple adaptable models for deriving quantitative guidelines for CCF woodlands Continuous Cover

Forestry is ideal for students scholars and practitioners of forest science forest ecology conservation and environmental management as well as policymakers dealing with forestry or climate policy *Continuous Cover Forestry* Timo Pukkala,Klaus Gadow,2011-10-14 Although the majority of the world s forest ecosystems are dominated by uneven sized multi species stands forest management practice and theory has focused on the development of plantation monocultures to maximize the supply of timber at low cost Societal expectations are changing however and uneven aged multi species ecosystems selectively managed as Continuous Cover Forestry CCF are often believed to be superior to monocultures in addressing a wide range of expectations This book presents methods which are relevant to CCF management and planning analysing forest structures silvicultural and planning economic evaluation based on examples in Europe Asia Africa and North and South America *Continuous Cover Forestry* Klaus von Gadow,Jürgen Nagel,Joachim Saborowski,2001 **The Longleaf Pine Ecosystem** Shibu Jose,Eric Jon Jokela,2006-05-18 The longleaf pine ecosystem once one of the most extensive ecosystems in North America is now among the most threatened Over the past few centuries land clearing logging fire suppression and the encroachment of more aggressive plants have led to an overwhelming decrease in the ecosystem s size to approximately 2 2% of its original coverage Despite this devastation the range of the longleaf still extends from Virginia to Texas Through the combined efforts of organizations such as the USDA Forest Service the Longleaf Alliance and the Nature Conservancy extensive programs to conserve restore and manage the ecosystem are currently underway The longleaf pine ecosystem is valued not only for its aesthetic appeal but also for its outstanding biodiversity habitat value and for the quality of the longleaf pine lumber It has a natural resistance to fire and insects and supports more than thirty threatened or endangered plant and animal species including the red cockaded woodpecker and the gopher tortoise The Longleaf Pine Ecosystem unites a wealth of current information on the ecology silviculture and restoration of this ecosystem The book also includes a discussion of the significant historical social and political aspects of ecosystem management making it a valuable resource for students land managers ecologists private landowners government agencies consultants and the forest products industry About the Editors Dr Shibu Jose is Associate Professor of Forest Ecology and Dr Eric J Jokela is Professor of Silviculture at the School of Forest Resources and Conservation at the University of Florida in Gainesville Dr Deborah L Miller is Associate Professor of Wildlife Ecology in the Department of Wildlife Ecology and Conservation at the University of Florida in Milton *Decision Support for Forest Management* Annika Kangas,Jyrki Kangas,Mikko Kurttila,2008-04-01 The goal of Kangas Kangas and Kurttila s *Decision Support for Forest Management* is to provide students and researchers with a toolbox of methods for approaching the different planning situations that may arise in practice It draws together a wide range of methods used in planning forest management regimes and presents a systematic overview of current methodological approaches While earlier books concerning forest planning have tended to focus on linear programming economic aspects or specific multi criteria decision aid tools this book provides a much broader range of tools

to meet a variety of planning situations The methods themselves cover a range of decision situations from cases involving single decision makers through group decision making to participatory planning They include traditional decision support tools from optimization to utility functions as well as methods that are just gaining ground in forest planning such as problem structuring methods and social choice theory Including examples which illustrate the application of each technique to specific management planning problems the book offers an invaluable resource for both researchers and advanced students specializing in management and planning issues relating to forestry General Technical Report PNW-GTR, 2008

Sustainable Forest Management Hubert Hasenauer, 2006-03-29 There is a strong movement towards uneven aged forest management based on the idea that such stands increase or at least maintain soil fertility increase biodiversity and improve stand resilience This shift in forest management practice renders existing yield tables increasingly unreliable Among potential alternatives are tree growth models because they predict the growth of each tree within a forest stand This book summarizes three years of work related to the topic carried out as a joint effort of leading tree growth modellers across Europe together with forest companies By means of nine specific examples it demonstrates the problem solving potential of tree growth modeling theory as required by various end user groups **Individual-based Methods in Forest Ecology and Management** Arne Pommerening, Pavel Grabarnik, 2019-09-17 Model driven individual based forest ecology and individual based methods in forest management are of increasing importance in many parts of the world For the first time this book integrates three main fields of forest ecology and management i e tree plant interactions biometry of plant growth and human behaviour in forests Individual based forest ecology and management is an interdisciplinary research field with a focus on how the individual behaviour of plants contributes to the formation of spatial patterns that evolve through time Key to this research is a strict bottom up approach where the shaping and characteristics of plant communities are mostly the result of interactions between plants and between plants and humans This book unites important methods of individual based forest ecology and management from point process statistics individual based modelling plant growth science and behavioural statistics For ease of access better understanding and transparency the methods are accompanied by R code and worked examples **Designing Green Landscapes** Klaus Gadow, Timo Pukkala, 2008-02-01 While the natural resources of the earth continue to diminish Green Landscapes are being called upon to produce an increasing range of goods and services A Green Landscape is a rural expanse of scenery that may comprise a variety of visible features This book focuses on forested landscapes although much of the theory and most of the practical applications are valid for any area of land In many regions of the world people depend on forests for their livelihood and well being Forests provide multiple services benefits generated for society by the existence of certain forest ecosystems and their attributes The value of these benefits is often only recognised when they are lost after removal of the trees resulting in ongoing loss of income and declining species diversity Forests provide multiple services However the amount and quality and the particular mix of these services depend on the condition of

the resource Landscape design is a proven way to ensure that certain desired benefits will be available in space and time It provides the foundation and an essential starting point for sustainable management This volume which forms part of Springer's book series Managing Forest Ecosystems presents state of the art research results visions and theories as well as specific methods for designing Green Landscapes as a basis for sustainable ecosystem management The book contains a wealth of information which may be useful to company management the legal and policy environment and forestry administrators The volume is subdivided into four sections Modeling Applications for Optimizing Forest Development Jeong-Ho Seo, 2005

Forest Inventory Annika Kangas, Matti Maltamo, 2006-02-19 This book has been developed as a forest inventory textbook for students and could also serve as a handbook for practical foresters We have set out to keep the mathematics in the book at a fairly non technical level and therefore although we deal with many issues that include highly sophisticated methodology we try to present first and foremost the ideas behind them For foresters who need more details references are given to more advanced scientific papers and books in the fields of statistics and biometrics Forest inventory books deal mostly with sampling and measurement issues as found here in section I but since forest inventories in many countries involve much more than this we have also included material on forestry applications Most applications nowadays involve remote sensing technology of some sort so that section II deals mostly with the use of remote sensing material for this purpose Section III deals with national inventories carried out in different parts of world and section IV is an attempt to outline some future possibilities of forest inventory methodologies The editors Annika Kangas Professor of Forest Mensuration and Management Department of Forest Resource Management University of Helsinki Matti Maltamo Professor of Forest Mensuration Faculty of Forestry University of Joensuu ACKNOWLEDGEMENTS **A Southern Region Conference on Technology Transfer and Extension** Sarah F. Ashton, William Gary Hubbard, Harold M. Rauscher, 2009 Forest Growth and Yield Modeling Aaron R. Weiskittel, David W. Hann, John A. Kershaw, Jr., Jerome K. Vanclay, 2011-08-22 Forest Growth and Yield Modeling synthesizes current scientific literature and provides insights in how models are constructed Giving suggestions for future developments and outlining keys for successful implementation of models the book provides a thorough and up to date single source reference for students researchers and practitioners requiring a current digest of research and methods in the field The book describes current modelling approaches for predicting forest growth and yield and explores the components that comprise the various modelling approaches It provides the reader with the tools for evaluating and calibrating growth and yield models and outlines the steps necessary for developing a forest growth and yield model Single source reference providing an evaluation and synthesis of current scientific literature Detailed descriptions of example models Covers statistical techniques used in forest model construction Accessible reader friendly style **Sustainable Use of Forest Biomass for Energy** Dominik Röser, Antti Asikainen, Karsten Raulund-Rasmussen, Inge Stupak, 2008-03-05 From time immemorial firewood has been a very important source of energy for mankind Later in history wood for energy decreased its

importance because of other more convenient and cheaper sources mainly fossil fuels Today focus is again on use of forests as a producer of energy with main drivers being climate change shortage and increasing prices of fossil fuel sources and safety in energy supplies However intensive use of forest biomass is questioned since fundamental ecological processes may be influenced negatively thus making up a trade off with the benefits of using an otherwise sustainable source of energy In this book selected aspects of intensive use of forest biomass for energy is treated with main focus on ecological aspects like maintenance of soil fertility recycling of the combustion ash influence on biodiversity and pests and economical aspects both at forest owners level and for society Another focus point is the implementation of this knowledge into decision support recommendations and guidelines The geographical scope is mainly the Nordic and Baltic region The EU financed project Wood for Energy a contribution to the development of sustainable forest Management WOOD EN 1 MAN make up the frame for the book Seven partners participated in the project Forest Landscape Denmark Swedish University of Agricultural Sciences Finnish Forest Research Institute Norwegian Forest and Landscape Institute Lithuanian Forest Research Institute Latvian State Forestry Research Institute and Estonian University of Life Sciences with Forest Landscape Denmark as coordinator

Managing Forests as Complex Adaptive Systems Christian C. Messier, Klaus J. Puettmann, K. David Coates, K. Dave Coates, 2013 This book links the emerging concepts of complexity complex adaptive system CAS and resilience to forest ecology and management It explores how these concepts can be applied in various forest biomes of the world with their different ecological economic and social settings and history Individual chapters stress different elements of these concepts based on the specific setting and expertise of the authors Regions and authors have been selected to cover a diversity of viewpoints and emphases from silviculture and natural forests to forest restoration and from boreal to tropical forests The chapters show that there is no single generally applicable approach to forest management that applies to all settings The first set of chapters provides a global overview of how complexity CAS and resilience theory can benefit researchers who study forest ecosystems A second set of chapters provides guidance for managers in understanding how these concepts can help them to facilitate forest ecosystem change and renewal adapt or self organize in the face of global change while still delivering the goods and services desired by humans The book takes a broad approach by covering a variety of forest biomes and the full range of management goals from timber production to forest restoration to promote the maintenance of biodiversity quality of water or carbon storage

Sustaining Forest Ecosystems Klaus von Gadow, Juan Gabriel Álvarez González, Chunyu Zhang, Timo Pukkala, Xiuhai Zhao, 2021-08-11 Forest ecosystems include a great variety of communities of organisms interacting with their physical environment multi aged natural forests even aged monocultures and secondary forests invaded by foreign species The challenge is to sustain their ability to function by adapting to changing climates and satisfying a multitude of human demands Our first chapter sets the scene with a discussion about the effects of forest management on ecosystem services Details about forest observational infrastructures are introduced in the second chapter

The third chapter presents methods of analysing forest density and structure Models for estimating the shape and growth of individual forest trees are introduced in chapter 4 models of forest community production in Chapter 5 Methods and examples of sustainable forest design are covered in chapter 6 New scientific contributions continue to emerge as we are writing and this work is never finished We hope to continue with regular updates replacing obsolete sections with new ones but the general aim remains the same to introduce a range of methods that will assist those interested in sustaining forest ecosystems

Norway Spruce Conversion Heinrich Spiecker, Jörg Hansen, Emil Klimo, Jens Peter Skovsgaard, Hubert Sterba, Konstantin von Teuffel, 2004-04-01 Up to the end of the 19th century many European forests suffered from devastation and soil deterioration which caused fears of timber shortage In order to counteract this possible shortage many forest areas were reforested with coniferous tree species especially Norway spruce *Picea abies* L Karst Consequently coniferous forests often Norway spruce forests consisting of trees of the same age were established on many sites naturally dominated by broadleaves As a result damages caused by storm snow ice drought insects fungi and possibly soil degradation seemed to occur more frequently in these secondary Norway spruce forests than in forests consisting of species better adapted to the ambient conditions Conversion of Norway spruce stands may reduce these risks and upgrade biodiversity and the genetic potential of forests As the economic results of forestry future wood markets and various other goods and services that are provided to society by forest ecosystems are affected by present and future decision making all aspects of conversion must be well understood EFI's Regional Project Centre CONFOREST is continuously striving to improve implementation of conversion projects by consolidation of the expertise available in all forestry disciplines This book comprises the findings in all conversion related areas aiming to consider ecosystem needs while ensuring availability of silvicultural methods and operational feasibility of their implementation Simultaneously the cost effectiveness of conversion scenarios is analysed by forestry economists Since a change in public perception and ecological awareness may cause policy makers to either or not endorse further conversion efforts input by experts in forestry politics is also provided

Forest Mensuration Anthonie van Laar, Alparslan Akça, 2007-07-20 Forest mensuration is one of the most fundamental disciplines within forest and related sciences It deals with the measurement of trees and stands and the analysis of the resultant information During the early days of sustained forest management simple measurement and estimation methods and with the analysis of inventory and research data were available The middle of last century however witnessed a worldwide increase in the need for more quantitative information about trees and stands This generated the need for more sophisticated methods to obtain and analyze forest data This development was followed by a phenomenal explosion of information During the past decades there has been fruitful cooperation between the Institute of Forest Inventory and Forest Growth formerly Institute of Forest Management and Forest Yield Sciences of the University of Göttingen Germany and the Faculty of Forestry of the University of Stellenbosch South Africa This book is one of the results of this fruitful cooperation between these institutions

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