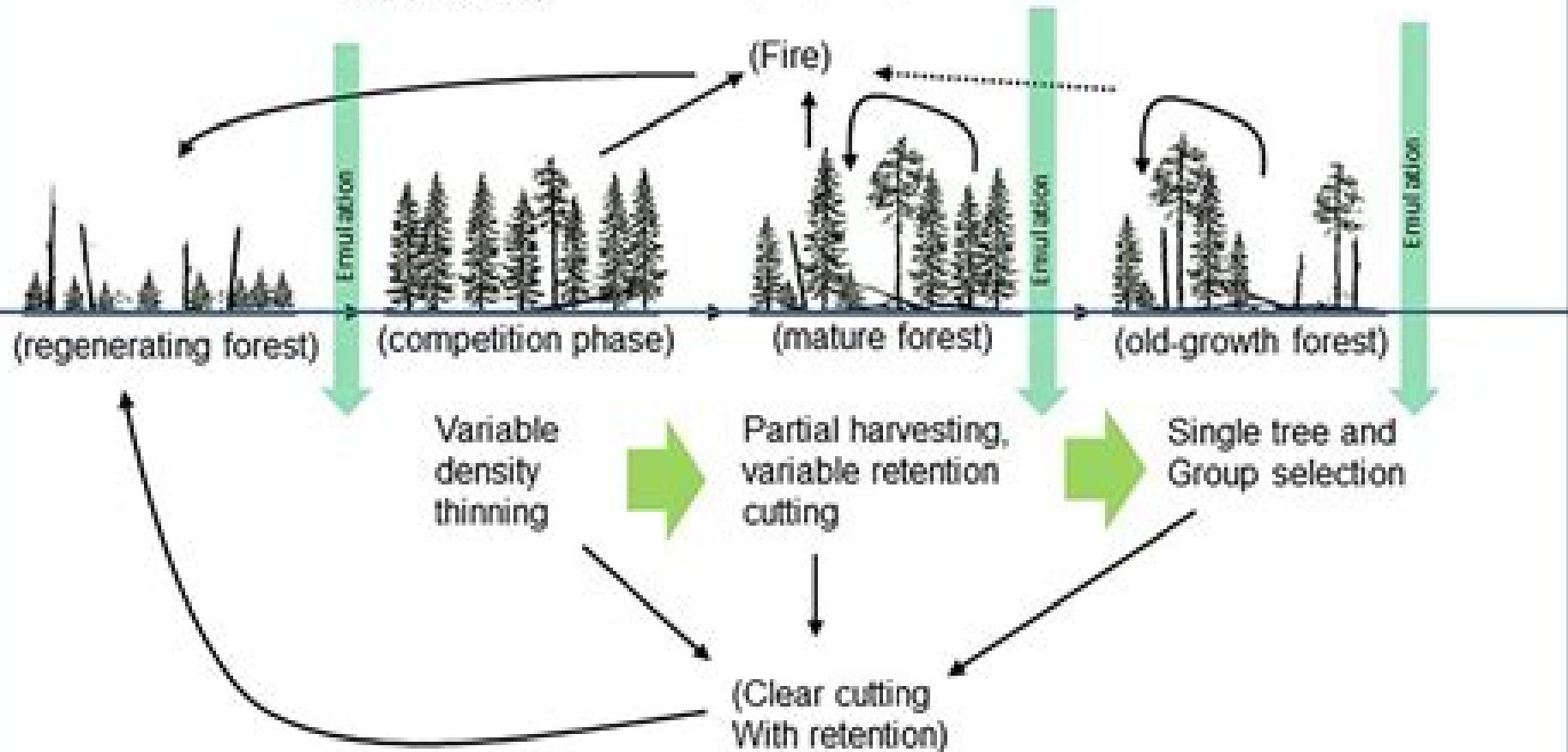
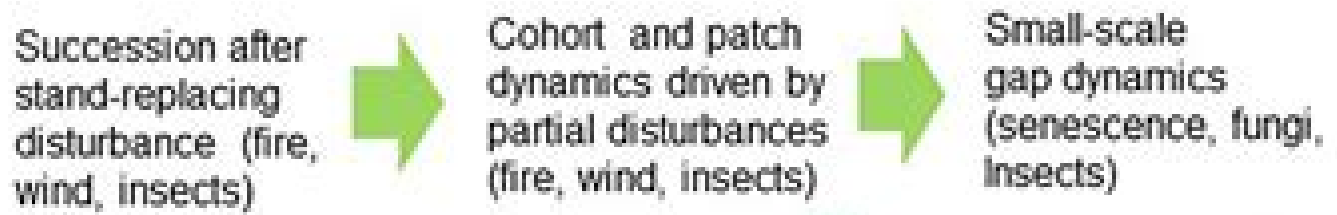


Natural disturbance regime



Natural disturbance-based management

Forest Dynamics And Disturbance Regimes

Richard T. Busing, Allen M. Solomon



Forest Dynamics And Disturbance Regimes:

Forest Dynamics and Disturbance Regimes Lee E. Frelich, 2002-01-10 Temperate zone forests have been shaped by fire wind and grazing over thousands of years This book provides a major contribution to the study of their dynamics by considering three important themes The combined influence of wind fire and herbivory on the successional trajectories and structural characteristics of forests The interaction of deciduous and evergreen tree species to form mosaics which in turn influence the environment and disturbance regime The significance of temporal and spatial scale with regard to the overall impact of disturbances These themes are explored via case studies from the forests in the Lake States of the USA Minnesota Wisconsin and Michigan where the presence of large primary forest remnants provides a unique opportunity to study the long term dynamics of near boreal pine and hardwood hemlock forests The comparability of these forests to forests in other temperate zones allows generalizations to be made that may apply more widely **Global Change and Terrestrial**

Ecosystems in Monsoon Asia T. Hirose, B.H. Walker, 2012-12-06 Forest vegetation is distributed in monsoon Asia continuously from boreal forests through temperate to tropical rain forests This vegetation the richest in the world is being subjected to global change on an unprecedented scale It has been predicted that boreal forests will experience the most significant change in response to global warming while tropical forests are endangered by rapid changes in land use due to high population pressure An increase in atmospheric CO₂ concentration will severely affect ecosystem function in this area This volume presents a review of terrestrial ecosystems in monsoon Asia and assesses possible effects of global change on the structure and function of forest ecosystems and feedback routes to the global carbon cycle Audience Vital reading for plant ecologists vegetation scientists environmental managers and government decision makers *Historical Disturbance Regimes as a Reference for Forest Policy* Jonathan R. Thompson, 2004 Using the historical range of forest conditions as a reference for managing landscapes has been proposed as a coarse filter approach to biodiversity conservation By emulating historical disturbance processes it is thought that forest management can produce forest composition and structure similar to the conditions that once supported the native biota Although several examples of disturbance based management exist only recently has this concept been incorporated into policy This thesis explored hypotheses related to disturbance based forest policy through a literature review policy analyses and simulation experiments The primary objective of chapter 2 was to examine several examples disturbance based forest management and evaluate their potential to transition into policy within North America The review highlighted two Canadian provinces British Columbia and Ontario that have codified disturbance based management but used distinct methodologies Nearly all of the forests in these provinces are government owned which assisted policy development In addition both policy structures focused on emulating stand replacing fires that are characteristic in boreal forests this minimized the costs and the degree of departure from conventional forest management In much of the U S land tenure is complex and disturbance regimes vary widely this presents difficult

challenges for disturbance based policy development In the third chapter disturbance based policies were developed that attempted to address these challenges Using datasets from the Coastal Landscape Analysis and Modeling Study CLAMS and the Landscape Management and Policy Simulation model LAMPS the economic costs and ecological benefits of several policy structures were explored The policies included two variants of the current policy structure and three policies reflecting various aspects of the natural disturbance regime The study area was the 3 million hectare Oregon Coast Range Four owner groups were recognized forest industry nonindustrial private state and federal The management intentions of each group guided the application of policies Disturbance based policies were primarily addressed to clearcutting on private lands because it constituted the preponderance of harvesting in the region Information on the Coast Range s historical fire regime was used as a reference to develop disturbance based policies Fire severity was emulated with green tree retention standards fire frequency was emulated with annual harvestable area restrictions and fire extent was emulated with harvest unit size regulations LAMPS projected landscape conditions forest dynamics management activities clearcutting thinning and harvest volumes over the next century Simulated disturbance based policies produced age class distributions more similar to the historical range than those created by the current policy structure The proportions of early seral and young forest were within the historical range within 100 yrs within this timeframe older forests moved closer to but were still below historical conditions In contrast patch size distributions were less similar to historical conditions This was because even after a ten fold increase in the average harvest size the clearcut size limit remained well below the average historical fire size Also this was due to the scale of the analysis which treated multiple proximate harvest units as individual disturbance events Therefore regions with a high density of clearcuts which were ubiquitous in the current policy scenarios more closely resembled the large historical fire size In the near term annual revenue produced by the disturbance based policies was estimated to be 20 to 60 percent lower than the current policy However relative costs were reduced significantly through time This reflected the degree of departure between the modern and historical disturbance regimes This simulation experiment suggested that policies attempting to reproduce historical conditions in the Coast Range would require federal forests to provide large patches of old forest that were common in the historical landscape Employing public lands for this purpose would dampen costs to private landowners who would continue harvesting and provide young and early seral forest structure which were also historically abundant In addition this experiment illustrated the difficulty of meeting regional scale conservation goals across multiple private landowners and suggested that distributing costs and benefits equitably across large landscapes could be a significant challenge

Disturbance Ecology and Forest Management Paul Rogers, 1996 **Ecological**

Bulletins, Targets and Tools for the Maintenance of Forest Biodiversity Per Angelstam, Monica Donz-Breuss, Jean-Michel Roberge, 2009-05-06 Maintaining forest biodiversity by combining protection management and restoration of forest and woodland landscapes is a central component of sustainable development Evidence that there are

threshold levels for how much habitat loss may be tolerated for viable populations of specialised species to be maintained Policy makers businesses and managers pose questions about how to balance use of renewable forest resources and conserve biodiversity Examples are presented on how biodiversity assessments can be made Proposes how the critical gaps in our knowledge identified throughout the book could be filled through macroecological research and international co operation

Ecosystem Management in the Boreal Forest Sylvie Gauthier,2009 No detailed description available for Ecosystem Management in the Boreal Forest **Long-Term Forest Dynamics of the Temperate Zone** Paul A. Delcourt,Hazel R. Delcourt,2012-12-06 The synthesis presented in this volume is a direct outgrowth of our ten year FORMAP Project Forest Mapping Across Eastern North America from 20 000 yr B P to the Present Many previous research efforts in paleoecology have used plant fossil evidence as proxy information for primarily geologic or climatic reconstructions or as a bio stratigraphic basis for correlation of regional events In contrast in this book we deal with ecological questions that require a holistic perspective that integrates the interactions of biota with their dynamically changing environments over time scales up to tens of thousands of years In the FORMAP Project our major research objective has been to use late Quaternary plant ecological data sets to evaluate long term patterns and processes in forest development In order to accomplish this objective we have prepared subcontinent scale calibrations that quantitatively relate the production and dispersal of arboreal pollen to dominance in the vegetation for the major tree types of eastern North America Quantification of pollen vegetation relationships provides a basis for developing quantitative plant ecological data sets that allow further ecological analysis of both individual taxa and forest communities through time Application of these calibrations to fossil pollen records for interpreting forest history thus represents a fundamental step beyond traditional summaries based upon pollen percentages

The Effects of Wind Disturbance on Temperate Rain Forest Structure and Dynamics of Southeast Alaska Gregory Jay Nowacki,Marc G. Kramer,1998 Wind disturbance plays a fundamental role in shaping forest dynamics in southeast Alaska Recent studies have increased our appreciation for the effects of wind at both large and small scales Current thinking is that wind disturbance characteristics change over a continuum dependent on landscape features e g exposure landscape position topography Data modeling has revealed the existence of distinct wind disturbance regimes grading from exposed landscapes where recurrent large scale wind events prevail to wind protected landscapes where small scale canopy gaps predominate Emulating natural disturbances offers a way to design future management plans and silvicultural prescriptions consistent with prevailing ecological conditions Dynamics of Asia's and Australasia's forests in a changing world Nophea Sasaki,Ling Zhang,John Meadows,Jeong-Wook Seo ,Hans Juergen Boehmer,2024-11-06 Global collaboration is the cornerstone of scientific advancement Frontiers in Forests and Global Change has organized a series of special edition Research Topics with the goal of highlighting the latest advancements in forest science across the globe showcasing the academic excellence and high quality work of internationally recognized researchers These collections aim to shed light on the recent progress made

across the entire breadth of the forest science field and reflect on the future challenges faced by researchers across borders

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 Long-term Forest Dynamics Ahto Kangur, 2009 Assessment of a Model of Forest Dynamics Under Contrasting Climate and Disturbance Regimes in the Pacific Northwest Richard T. Busing, Allen M. Solomon, 2005 **Ecological Forest Management** Jerry F. Franklin, K. Norman Johnson, Debora L. Johnson, 2018-03-19 Fundamental changes have occurred in all aspects of forestry over the last 50 years including the underlying science societal expectations of forests and their management and the evolution of a globalized economy This textbook is an effort to comprehensively integrate this new knowledge of forest ecosystems and human concerns and needs into a management philosophy that is applicable to the vast majority of global forest lands Ecological forest management EFM is focused on policies and practices that maintain the integrity of forest ecosystems while achieving environmental economic and cultural goals of human societies EFM uses natural ecological models as its basis contrasting it with modern production forestry which is based on agronomic models and constrained by required return on investment Sections of the book consider 1 Basic concepts related to forest ecosystems and silviculture based on natural models 2 Social and political foundations of forestry including law economics and social acceptability 3 Important current topics including wildfire biological diversity and climate change and 4 Forest planning in an uncertain world from small privately owned lands to large public ownerships The book concludes with an overview of how EFM can contribute to resolving major 21st century issues in forestry including sustaining forest dependent societies *Vegetatio*, 1996 *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

Disturbance regimes and dynamics in old-growth fir-beech forests of the Dinaric mountains Thomas Andrew Nagel, Jurij Diaci, Andrej Bončina, 2008 This research examined disturbance processes and forest dynamics in two old growth *Fagus sylvatica* *Abies alba* forests in the Dinaric mountains To do this a combination of method was used including direct observations of recent windthrow events sampling of tree fall gaps and historical reconstruction of disturbances using dendroecological techniques In the Peckaforest reserve in Slovenia two recent windstorm events caused substantial damage to the canopy resulting in mortality and created gaps up to 1500 m² Furthermore dendroecological evidence in the same reserve suggests that periodic storms damaged the forest in the past The pattern of canopy damage in these events was also found to have an important influence on regeneration patterns In the Perucica forest reserve in Bosnia and Herzegovina large canopy gaps up to 6000 m² in size with numerous windthrown gap makers also indicate the occurrence of intermediate severity windstorm disturbance Thus the results suggest that both small scale gaps as well as periodic formation of larger openings from wind disturbance play an important role in the dynamics of these forests These findings challenge the traditional view of central European forest dynamics which suggests that continuous endogenous tree mortality processes causing small canopy gaps drive forest dynamics

Structural Characteristics, Disturbance Regimes, and the Nature of Wilderness in Old-growth and Second-growth Hemlock-northern Hardwood Forests of Adirondack Park, New York Susy Svatek Ziegler, 1999 **Forest Science**, 2011 **Issues, Strategies, Desired Future Forest Composition, and Stand Selection Criteria**, 2005 **Écoscience**, 2006

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