



EMULATING NATURAL FOREST LANDSCAPE DISTURBANCES

Concepts and Applications



Edited by

AJITH H. PERERA, LISA J. BUSE, and MICHAEL G. WEBER

Emulating Natural Forest Landscape Disturbances

**Ajith H. Perera, Lisa J. Buse, Michael G.
Weber**



Emulating Natural Forest Landscape Disturbances:

Emulating Natural Forest Landscape Disturbances Ajith H. Perera, Lisa Buse, Michael G. Weber, 2004 This comprehensive collection of provocative papers provides a scientific foundation for justifying the use of and a solid framework for examining the ambiguities inherent in emulating natural forest landscape disturbance Contributors range from policymakers and forestry professionals to academics and conservationists offering a balanced view of the promises and challenges of the forest management paradigm in sustaining forest landscapes The book opens with an overview of foundational concepts a detailed discussion of emerging forest management paradigms and their global context and an examination of the ecological premise for emulating natural disturbance This section also explores the current understanding of natural disturbance regimes including the two most prevalent in North America fire and insects The volume then uses several geographically diverse case studies to address the characterization of natural disturbances and the development of applied templates for their emulation through forest management The emphasis on fire regimes reflects the greater focus that has traditionally been placed on understanding and managing fire compared with other forms of disturbance and utilizes several viewpoints to address the lessons learned from historical disturbance patterns Reflecting current developments in the field immediate challenges and potential directions this collection concludes with a penetrating look at practical applications exploring the expectations for and feasibility of emulating natural disturbance through forest management

Emulating Natural Forest Landscape Disturbances Ontario Forest Research Institute, 2002 This publication is a compendium of summaries of presentations from a symposium that discussed the concepts challenges and potential consequences of implementing emulation of natural forest landscape disturbances at the landscape level in forest management The first set of presentations covers such topics as predicting natural forest disturbances predicting fire regimes and forest insect disturbance regimes silvicultural concepts the ecological basis for emulation boreal forest management and the economics of emulation forestry The second set presents case studies from across northern central North America to illustrate some practical applications of the concepts behind emulation of natural forest landscape disturbances

Emulating Natural Forest Landscape Disturbances Ajith H. Perera, Lisa J. Buse, Michael G. Weber, 2008-01-11 What is a natural forest disturbance How well do we understand natural forest disturbances and how might we emulate them in forest management What role does emulation play in forest management Representing a range of geographic perspectives from across Canada and the United States this book looks at the escalating public debate on the viability of natural disturbance emulation for sustaining forest landscapes from the perspective of policymakers forestry professionals academics and conservationists This book provides a scientific foundation for justifying the use of and a solid framework for examining the ambiguities inherent in emulating natural forest landscape disturbance It acknowledges the divergent expectations that practitioners face and offers a balanced view of the promises and challenges associated with applying this emerging forest management paradigm The

first section examines foundational concepts addressing questions of what emulation involves and what ecological reasoning substantiates it These include a broad overview a detailed review of emerging forest management paradigms and their global context and an examination of the ecological premise for emulating natural disturbance This section also explores the current understanding of natural disturbance regimes including the two most prevalent in North America fire and insects The second section uses case studies from a wide geographical range to address the characterization of natural disturbances and the development of applied templates for their emulation through forest management The emphasis on fire regimes in this section reflects the greater focus that has traditionally been placed on understanding and managing fire compared with other forms of disturbance and utilizes several viewpoints to address the lessons learned from historical disturbance patterns Reflecting on current thinking in the field immediate challenges and potential directions the final section moves deeper into the issues of practical applications by exploring the expectations for and feasibility of emulating natural disturbance through forest management

Emulating Natural Landscape Disturbance in Forest Management: ,2004 Forest researchers managers policy makers are increasingly interested in forest management practices based on stand landscape level natural disturbances In North America these practices are referred to as managing within the historic range of natural variation or emulating natural forest disturbance This paper provides an introduction to this practice noting its goal of maintaining forest structure composition within the spatial temporal characteristics generated by prevailing natural disturbance regimes such as fire and pest epidemics It also briefly summarizes papers presented at a 2002 symposium held to explore the emulation of natural forest disturbances covering such topics as quantifying historical fire regimes characterizing landscape changes simulating disturbance regimes through modelling and evaluating alternative vegetation management scenarios

Simulation Modeling of Forest Landscape Disturbances Ajith H. Perera,Brian R. Sturtevant,Lisa J. Buse,2015-07-27 Forest landscape disturbances are a global phenomenon Simulation models are an important tool in understanding these broad scale processes and exploring their effects on forest ecosystems This book contains a collection of insights from a group of ecologists who address a variety of processes physical disturbances such as drought wind and fire biological disturbances such as defoliating insects and bark beetles anthropogenic influences interactions among disturbances effects of climate change on disturbances and the recovery of forest landscapes from disturbances all from a simulation modeling perspective These discussions and examples offer a broad synopsis of the state of this rapidly evolving subject

Ecology of Wildfire Residuals in Boreal Forests Ajith Perera,Lisa Buse,2014-07-21 Large and intense wildfires are integral to the globally important boreal forest biome While much is known about boreal wildfires the focus on forest remnants that either escape or survive these intense fires is a recent phenomenon academics now study ecological processes of wildfire residuals forest policymakers use their patterns to design harvest strategies forest managers consider their economic value and conservationists recognize their intrinsic ecological importance Ecology of Wildfire Residuals in Boreal Forests is the first

book to explore ecological patterns and processes of what does not burn within boreal wildfires Following a brief introduction to the boreal forest biome it discusses the processes that form wildfire residuals how they are studied with various approaches and methods the types extent and ecological functions of wildfire residuals and their role in forest management applications all in the context of ecological scale This book is a reference for researchers and graduate students studying boreal forest ecology as well as for policymakers and forest managers It adopts a non reductionist perspective that will be of interest to scientists from conservation science forest ecology forest management and timber production Brings together fire behaviour ecological scale vegetation ecology and conservation biology to provide a cross disciplinary multi scale and an integrative discussion of forest fire residuals Captures the state of knowledge with a meta analysis of research trends during the past few decades with a comprehensive review of the literature a compilation of key references and a list of key topics relevant to the study of boreal wildfire residuals Identifies the major gaps and uncertainties in the present body of knowledge including a critique of study techniques and reporting practices to date and proposes a set of terms and definitions and a list of research questions and priorities Includes the authors observations and research experience from boreal Canada and information extracted from interactions with North American and European ecologists forest managers and conservationists

Forest Landscapes and Global Change João C. Azevedo,Ajith H. Perera,M. Alice Pinto,2014-07-11

Climate change urban sprawl abandonment of agriculture intensification of forestry and agriculture changes in energy generation and use expansion of infrastructure networks habitat destruction and degradation and other drivers of change occur at increasing rates They affect patterns and processes in forest landscapes and modify ecosystem services derived from those ecosystems Consequently rapidly changing landscapes present many new challenges to scientists and managers While it is not uncommon to encounter the terms global change and landscape together in the ecological literature a global analyses of drivers of change in forest landscapes and their ecological consequences have not been addressed adequately That is the goal of this volume an exploration of the state of knowledge of global changes in forested landscapes with emphasis on causes and effects and challenges faced by researchers and land managers Initial chapters identify and describe major agents of landscape change climate fire and human activities The next series of chapters address implications of changes on ecosystem services biodiversity conservation and carbon flux A chapter that describes methodologies of detecting and monitoring landscape changes is presented followed by chapter that highlights the many challenges forest landscape managers face amidst of global change Finally we present a summary and a synthesis of the main points presented in the book Each chapter will contain the individual research experiences of chapter authors augmented by review and synthesis of global scientific literature on relevant topics as well as critical input from multiple peer reviewers

Forest Landscape Ecology Ajith H. Perera,Lisa J. Buse,Thomas Crow,2007-03-14 Landscape ecology has generated a wealth of knowledge that could enhance forest policy but little of this knowledge has found its way into practice This the first book to introduce

landscape ecologists to the discipline of knowledge transfer The book considers knowledge transfer in general critically examines aspects that are unique to forest landscape ecology and reviews case studies of successful applications for policy developers and forest managers in North America

Understanding Forest Disturbance and Spatial Pattern Michael A. Wulder, Steven E. Franklin, 2006-07-27 Remote sensing and GIS are increasingly used as tools for monitoring and managing forests Remotely sensed and GIS data are now the data sources of choice for capturing documenting and understanding forest disturbance and landscape pattern Sitting astride the fields of ecology forestry and remote sensing GIS

Plant Disturbance Ecology Edward A. Johnson, Kiyoko Miyanishi, 2020-10-21 Disturbance ecology continues to be an active area of research having undergone advances in many areas in recent years One emerging direction is the increased coupling of physical and ecological processes in which disturbances are increasingly traced back to mechanisms that cause the disturbances themselves such as earth surface processes mesoscale and larger meteorological processes and the ecological effects of interest are increasingly physiological

Plant Disturbance Ecology 2nd Edition encourages movement away from the informal conceptual approach traditionally used in defining natural disturbances and clearly presents how scientists can use a multitude of approaches in plant disturbance ecology This edition includes nine revised chapters from the first edition as well new more comprehensive chapters on fire disturbance and beaver disturbance Edited by leading experts in the field **Plant Disturbance Ecology 2nd Edition** is an essential resource for scientists interested in understanding plant disturbance and ecological processes Advances understanding of natural disturbances by combining geophysical and ecological processes Provides a framework for collaboration between geophysical scientists and ecologists studying natural disturbances Includes fully updated research with 5 new chapters and revision of 11 chapters from the first edition

Fire Regimes: Spatial and Temporal Variability and Their Effects on Forests Yves Bergeron, Sylvie Gauthier, 2018-04-13 This book is a printed edition of the Special Issue *Fire Regimes Spatial and Temporal Variability and Their Effects on Forests* that was published in *Forests*

The Practice of Silviculture Mark S. Ashton, Matthew J. Kelty, 2018-03-19 The most up to date comprehensive resource on silviculture that covers the range of topics and issues facing today's foresters and resource professionals The tenth edition of the classic work *The Practice of Silviculture Applied Forest Ecology* includes the most current information and the results of research on the many issues that are relevant to forests and forestry The text covers such timely topics as biofuels and intensive timber production ecosystem and landscape scale management of public lands ecosystem services surface drinking water supplies urban and community greenspace forest carbon fire and climate and much more In recent years silvicultural systems have become more sophisticated and complex in application particularly with a focus on multi aged silviculture There have been paradigm shifts toward managing for more complex structures and age classes for integrated and complementary values including wildlife water and open space recreation Extensively revised and updated this new edition covers a wide range of topics and

challenges relevant to the forester or resource professional today This full color text offers the most expansive book on silviculture and Includes a revised and expanded text with clear language and explanations Covers the many cutting edge resource issues that are relevant to forests and forestry Contains boxes within each chapter to provide greater detail on particular silvicultural treatments and examples of their use Features a completely updated bibliography plus new photographs tables and figures The Practice of Silviculture Applied Forest Ecology Tenth Edition is an invaluable resource for students and professionals in forestry and natural resource management

Managing and Designing Landscapes for Conservation David B. Lindenmayer, Richard J. Hobbs, 2008-04-15 The distinctive relationships between landscape change habitat fragmentation and biodiversity conservation are highlighted in this original and useful guide to the theory and practice of ecological landscape design Using original ecologically based landscape design principles the text underscores current thinking in landscape management and conservation It offers a blend of theoretical and practical information that is illustrated with case studies drawn from across the globe Key insights by some of the world s leading experts in landscape ecology and conservation biology make Managing and Designing Landscapes for Conservation an essential volume for anyone involved in landscape management natural resource planning or biodiversity conservation

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

Fishes and Forestry Thomas G. Northcote, G. F. Hartman, 2008-04-15 Many species of fish occupying inland waters reside in watersheds that were or still are surrounded by forests and are dependent in major ways upon such cover The interactions between fishes and forests are complex

multifaceted dynamic processes involving most inland surface waters forests subsurface waters geology and soils climate and its changes and the biotic components of the relevant ecosystems These interactions also include the aspects of forestry tied to human development economics population growth and even philosophies Fishes and Forestry is truly a landmark publication The editors Professors Northcote and Hartman have drawn together and carefully edited chapters written by 56 scientists from around the world covering a vast wealth of information never before appearing within the covers of one book Following an introductory chapter this exceptional work is broadly divided into sections covering the ecology of forests streams lakes and estuaries fish biology and ecology forestry activities and their effects on aquatic systems and fishes 14 chapters covering examples of fish forestry interactions from around the world and a final section covering means of effecting better fish forestry interactions Fishes and Forestry is an essential purchase for all those involved in inland fisheries forestry and their interaction including fisheries scientists fish biologists ecologists environmental scientists and forestry scientists Libraries in all universities and research establishments where these subjects are studied and taught should have several copies on their shelves

Towards Sustainable Management of the Boreal Forest Philip Joseph Burton, 2003 Presenting a summary of the development in boreal forest management this book provides a progressive vision for some of the world's northern forests It includes a selection of chapters based on the research conducted by the Sustainable Forest Management Network across Canada It includes a number of case histories

Ecology of Hierarchical Landscapes Jiquan Chen, 2006 The idea for this book grew out of 1 the realisation that development of the theory of landscape ecology has now reached the point where rigorous field work is required to validate models test assumptions and ideas of scaling theory and refine our understanding of landscape features and their delineation 2 the relative scarcity of compilations that have examined the role of field research or interdisciplinary management applications in advancing the science of landscape ecology and 3 the increasing amount of information coming out of the Chequamegon Integrated Field Project CIFP on relevant topics This book synthesises the experiences and lessons learned from the CIFP project and other relevant landscape studies in an attempt to demonstrate the utility of field studies and emerging technology to the advancement of the science This book is organised to synthesise and update knowledge on research topics mentioned previously with an emphasis on ecological consequences i.e. implications for ecological function of the approach to and understanding of these topics across levels of the ecological hierarchy

Ecology - Volume II Antonio Bodini, Stefan Klotz, 2009-10-20 Ecology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Ecology is the study of the interrelationships between living organisms and their environment The term ecology was introduced by Ernst Haeckel at the end of the nineteenth century Since that time spectacular advances have been made Much has been learned about the relationship between organisms and environmental factors and about the processes that regulate the abundance and

distribution of species The Theme on Ecology with contributions from distinguished experts in the field discusses the Science of Ecology for a Sustainable World The two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Mark Twain National Forest (N.F.), Land and Resource Management Plan ,2005 **Ecosystem**

Management in the Boreal Forest Sylvie Gauthier,2009 Forest Ecosystem Management A management approach that aims to maintain healthy and resilient forest ecosystems by focusing on a reduction of differences between natural and managed landscapes to ensure long term maintenance of ecosystem functions and thereby retain the social and economic benefits they provide to society That is the definition of forest ecosystem management proposed in this book which provides a summary of key ecological concepts supporting this approach The book includes a review of major disturbance regimes that shape the natural dynamics of the boreal forest and gives examples from different Canadian boreal regions Several projects implementing the forest ecosystem management approach are presented to illustrate the challenges created by current forestry practices and the solutions that this new approach can provide In short knowledge and understanding of forest dynamics can serve as a guide for forest management Planning interventions based on natural dynamics can facilitate reconciliation between forest harvesting needs and the interests of other forest users

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