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Managing Forests as Complex Adaptive Systems

Dave Coates - Shifting Thinking - Complexity Science as a New Basis for Managing Forests

72nd Forest Industry Lecture Series (Fall 2014) Sustainable forest management – a way of combating climate change **Chapter 9 Forests \u0026amp; Management Lecture VIDEO Forestry for the Future: Lessons in Sustainable Management from Maine Stressors of Forest Trees: Managing for Productivity Ecosystems and Socioeconomic Systems as Complex Adaptive Systems Building on the basics: managing forests for uncertain future conditions Starting Your Forest Mgmt Plan: Introduction to Forest**

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Managing Forests As Complex Adaptive

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Managing Forests as Complex Adaptive Systems: Building ...

'Enhanced throughout with bibliographic references, tables and figures, and a comprehensive index, Managing Forests as Complex Adaptive Systems: Building Resilience to the Challenge of Global Change offers a seminal body of work and is highly recommended for professional, governmental, NGO, and academic library Environmental Studies and Forest Management Studies reference collections and supplemental reading lists.'

Managing Forests as Complex Adaptive Systems: Building ...

Messier, C. (Ed.), Puettmann, K. (Ed.), Coates, K. (Ed.). (2013). Managing Forests as Complex Adaptive Systems. London: Routledge, <https://doi.org/10.4324/9780203122808>. COPY. 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.

Managing Forests as Complex Adaptive Systems | Taylor ...

In contrast, managing forests as complex adaptive system is a bottom-up approach. Besides the provision of ecosystem services, management activities also consider the adaptive capacity, i.e., the ability of ecosystem to respond to changes. The adaptive or transformative capacity of ecosystem is

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more and more important in a world that is changing faster and faster and where foresters have less ability to “fix” things, e.g., due to limited budgets, more constraints on pesticides, etc.

Teaching complex adaptive system science to manage forest ...

Managing Forests as Complex Adaptive Systems ... Keynote: Complex Adaptive Systems - Duration: 30:04. Rishidot Research 12,668 views. 30:04 "You Will Never Be Poor Again" | START DOING THIS TODAY

Managing Forests as Complex Adaptive Systems

Classical forest management has worked out a series of forest regulation methods with the aim of obtaining the “fully regulated” forest. Considering the forest as a complex biological adaptive system means overcoming the reductionist and mechanist paradigm, and entails a shift towards a systemic approach in silviculture and forest management.

MANAGING FORESTS AS COMPLEX ADAPTIVE SYSTEMS: AN ISSUE OF ...

Christian Messier Klaus Puettmann Managing forests as complex adaptive systems: From theory to practice Seminario Facoltà di Agraria - Università di Firenze - 31 maggio 2012

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Managing forests as complex adaptive systems: From theory ...

management of forests for a wide variety of ecosystem goods and services. One of these approaches is based on the science of complex systems. Viewing forests as Complex Adaptive System (or CAS) is an emerging paradigm based on development of systems theory in other fields, such as physics, medicine, and socio-economics.

FORESTS AS COMPLEX ADAPTIVE SYSTEMS: IMPLICATIONS FOR ...

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 ...

Managing Forests as Complex Adaptive Systems, Building ...

cial, climatic, and environmental changes. We argue here that viewing forest ecosystems as complex adaptive system provides a better alternative for both production- and conservation-oriented forests and forestry. We propose a set of broad principles and changes to increase the adaptive capacity of forests in the face of future uncertainties.

From Management to Stewardship: Viewing Forests As Complex ...

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Forests provide valuable ecosystem services (e.g. timber, nutrient cycling, air purification), but their ability to maintain these services under future climate conditions is uncertain. Yet, examining and evaluating adaptive forest management strategies to sustain these ecosystems can ...

Assessing Adaptive Forest Management Strategies for Future ...

Forests are complex adaptive systems in which properties at higher levels emerge from localized networks of many entities interacting at lower levels, allowing the development of multiple ecological pathways and processes.

Ecology and Society: Nurturing resilient forest ...

The interactions and interconnectedness of the parts and processes in forest ecosystems underlie their nature as complex adaptive systems. The parts – the organisms, species, guilds – interact in networks across different genetic, trophic, spatial and temporal scales and the relationships and feedbacks across these various scales create structure, cohesion and emergent properties (Levin, 2005; Whitham et al., 2006).

Managing Forests as Complex Adaptive ... - Taylor & Francis

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12. Management of Tasmanian Eucalypt Forests as Complex Adaptive Systems Sue Baker 13.

Managing Tree Plantations as Complex Adaptive Systems Alain Paquette and Christian Messier 14. A

New Integrative Framework for Understanding and Managing the World Forest: The Complex Adaptive System Christian Messier, Klaus J. Puettmann and K. David Coates ...

Managing Forests as Complex Adaptive Systems : Christian ...

Get this from a library! Managing forests as complex adaptive systems : building resilience to the challenge of global change. [Christian C Messier; Klaus J Puettmann; K Dave Coates;] -- "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 ...

Managing forests as complex adaptive systems : building ...

Managing Forests as Complex Adaptive Systems Building resilience to the challenge of global change Edited by Christian Messier, Klaus J. Puettmann and K. David Coates R EfnfISBBiii LONDON AND NEW YORK from Routledge

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Managing Forests as Complex Adaptive Systems

As the movement to create healthy forests moves forward, it promises to become a template for the use of new "complex systems" tools to address chronic problems, such as healthcare, education and economic policy. *Managing Forests as Complex Adaptive Systems* is a remarkably readable book.

This book links the emerging concepts of complexity, complex adaptive systems (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 histories. 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 promoting the maintenance of biodiversity, quality of water and carbon storage.

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The discipline of silviculture is at a crossroads. Silviculturists are under increasing pressure to develop practices that sustain the full function and dynamics of forested ecosystems and maintain ecosystem diversity and resilience while still providing needed wood products. A Critique of Silviculture offers a penetrating look at the current state of the field and provides suggestions for its future development. The book includes an overview of the historical developments of silvicultural techniques and describes how these developments are best understood in their contemporary philosophical, social, and ecological

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Contexts. It also explains how the traditional strengths of silviculture are becoming limitations as society demands a varied set of benefits from forests and as we learn more about the importance of diversity on ecosystem functions and processes. The authors go on to explain how other fields, specifically ecology and complexity science, have developed in attempts to understand the diversity of nature and the variability and heterogeneity of ecosystems. The authors suggest that ideas and approaches from these fields could offer a road map to a new philosophical and practical approach that endorses managing forests as complex adaptive systems. *A Critique of Silviculture* bridges a gap between silviculture and ecology that has long hindered the adoption of new ideas. It breaks the mold of disciplinary thinking by directly linking new ideas and findings in ecology and complexity science to the field of silviculture. This is a critically important book that is essential reading for anyone involved with forest ecology, forestry, silviculture, or the management of forested ecosystems.

The *Complex Forest* systematically examines the theory, processes, and early outcomes of a research and management approach called adaptive collaborative management (ACM). An alternative to positivist approaches to development and conservation that assume predictability in forest management, ACM acknowledges the complexity and unpredictability inherent in any forest community and the importance of developing solutions together with the forest peoples whose lives will be most affected by the outcomes. Building on earlier work that established the importance of flexible, collaborative approaches to sustainable forest management, *The Complex Forest* describes the work of ACM practitioners facing a broad range of challenges in diverse settings and attempts to identify the conditions under which ACM is most effective. Case studies of ACM in 33 forest sites in 11 countries together with Colfer's systematic comparison of results at each site indicate that human and institutional

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capabilities have been strengthened. In Zimbabwe, for example, the number of women involved in decisionmaking soared. In Nepal, community members detected and sanctioned dishonest community elites. In Cameroon and Bolivia, learning programs resulted in better conflict management. These are early results, but a wide range of recent research supports Colfer's belief that these new capabilities will eventually contribute to higher incomes and to sustainable improvements in the health of forests and forest peoples. The Complex Forest reinforces calls for change in the way we plan conservation and development programs, away from command-and-control approaches, toward ones that require bureaucratic flexibility and responsiveness, as well as greater local participation in setting priorities and problem solving.

Professor Chadwick Dearing Oliver has made major intellectual contributions to forest science and natural resources management. Over the course of his career he has actively sought to bring research and practice together through synthesis, outreach, and capacity-building. A common thread throughout his career has been complexity and how we as a society understand and manage complex systems. His work on forest stand dynamics, landscape management, and sustainability have all focused on the emergent properties of complex ecological and/or social systems. This volume celebrates a remarkable career through a diverse group of former students and colleagues who work on a wide range of subject areas related to the management of complex natural resource systems. Over the past decade there has been considerable discussion about forests as complex adaptive systems. Advances in remote sensing, social methods, and data collection and processing have enabled more detailed characterisations of complex

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natural systems across spatial and temporal scales than ever before. Making sense of these data, however, requires conceptual frameworks that are robust to the complexity of the systems and their inherent dynamics, particularly in the context of global change. This volume presents a collection of cutting-edge research on natural ecosystems and their dynamics through the lens of complex adaptive systems. It includes contributions by a wide range of authors from academia, NGOs, forest industry, and governmental organisations with diverse perspectives on forests and natural resources management. Each chapter offers new insights into how these systems can be made more resilient to ensure that they provide a diversity of ecological and social values well into the future. Together they provide a robust way of thinking about the many challenges that natural ecosystems face and how we as society may best address them.

This book examines the value of Adaptive Collaborative Management for facilitating learning and collaboration with local communities and beyond, utilising detailed studies of forest landscapes and communities. Many forest management proposals are based on top-down strategies, such as the Million Tree Initiatives, Forest Landscape Restoration (FLR) and REDD+, often neglecting local communities. In the context of the climate crisis, it is imperative that local peoples and communities are an integral part of all decisions relating to resource management. Rather than being seen as beneficiaries or people to be safeguarded, they should be seen as full partners, and Adaptive Collaborative Management is an approach which prioritises the rights and roles of communities alongside the need to address the environmental crisis. The volume presents detailed case studies and real life examples from across the globe, promoting and prioritising the voices of women and scholars and practitioners from the Global South who are often under-represented. Providing concrete examples of ways that a bottom-up approach

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can function to enhance development sustainably, via its practitioners and far beyond the locale in which they initially worked, this volume demonstrates the lasting utility of approaches like Adaptive Collaborative Management that emphasize local control, inclusiveness and local creativity in management. This book will be of great interest to students, scholars and practitioners working in the fields of conservation, forest management, community development and natural resource management and development studies more broadly.

This open access book offers a cross-sectoral reference for both managers and scientists interested in climate-smart forestry, focusing on mountain regions. It provides a comprehensive analysis on forest issues, facilitating the implementation of climate objectives. This book includes structured summaries of each chapter. Funded by the EU's Horizon 2020 programme, CLIMO has brought together scientists and experts in continental and regional focus assessments through a cross-sectoral approach, facilitating the implementation of climate objectives. CLIMO has provided scientific analysis on issues including criteria and indicators, growth dynamics, management prescriptions, long-term perspectives, monitoring technologies, economic impacts, and governance tools.

Modelling is an important tool for understanding the complexity of forest ecosystems and the variety of interactions of ecosystem components, processes and values. This book describes the hybrid approach to modelling forest ecosystems and their possible response to natural and management-induced disturbance. The book describes the FORECAST family of ecosystem management models at three different spatial scales (tree, stand and landscape), and compares them with alternative models at these three spatial scales. The book will help forest managers to understand what to expect from ecosystem-

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based forest models; serve as a tool for use in teaching about sustainability, scenario analysis and value trade-offs in natural resources management; and assist policy makers, managers and researchers working in assessment of sustainable forest management and ecosystem management. Several real-life examples of using the FORECAST family of models in forest management and other applications are presented from countries including Canada, China, Spain and the USA, to illustrate the concepts described in the text. The book also demonstrates how these models can be extended for scenario and value trade-off analysis through visualization and educational or management games.

This book provides a uniquely detailed and systematic comparison of environmental forest policies and enforcement in twenty countries worldwide, covering developed, transition and developing economies. The goal is to enhance global policy learning and promote well-informed and precisely-tuned policy solutions.

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