

**THE ROLE OF
FIRE IN
NORTHERN
CIRCUMPOLAR
ECOSYSTEMS**

SCOPE 18

Edited by
Ross W. Wein
David A. MacLean

**THE ROLE OF FIRE IN
NORTHERN CIRCUMPOLAR ECOSYSTEMS**

SCOPE 18



Role Of Fire In Northern Circumpolar Ecosystems

**Ronald E. Kirby, Stephen J. Lewis, Terry
N. Sexson, U.S. Fish and Wildlife
Service**



Role Of Fire In Northern Circumpolar Ecosystems:

The Role of Fire in Northern Circumpolar Ecosystems International Council of Scientific Unions. Scientific Committee on Problems of the Environment, 1983 Based on the conference Fire in northern circumpolar ecosystems held at the University of New Brunswick in 1979 Examines the role of fire in the functioning of northern ecosystems **Wildland Fire in Ecosystems**, 2000 **Fire in North American Wetland Ecosystems and Fire-wildlife Relations** Ronald E. Kirby, Stephen J. Lewis, Terry N. Sexson, 1988 [Fire in North American Wetland Ecosystems and Fire-wildlife Relations](#) Ronald E. Kirby, Stephen J. Lewis, Terry N. Sexson, U.S. Fish and Wildlife Service, 1988 *Fire and the Environment*, 1991

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 **A Systems Analysis of the Global Boreal Forest** Herman H. Shugart, Rik Leemans, Gordon B. Bonan, 2005-03-07 The world's boreal forests which lie to the south of the Arctic are considered to be the Earth's most significant terrestrial ecosystems A panel of ecologists here provide a synthesis of the important patterns and processes which occur in boreal forests and review the principal mechanisms which control the forest's patterns **Fire in California's Ecosystems** Neil G. Sugihara, 2006-11-29 Focusing on California and issues specific to fire ecology and

management in the state's bioregions this work provides scientific information for use in land restoration and other management decisions made in the field It introduces the basics of fire ecology and includes an overview of fire vegetation and climate in California and more Research Paper PNW. ,1978 General Technical Report RM. ,1983 **Biology of Dwarf Mistletoes** Frank G. Hawksworth,Robert F. Scharpf,1984 *Landscape Function and Disturbance in Arctic Tundra* James F. Reynolds,John D. Tenhunen,2013-04-17 Following the discovery of large petroleum reserves in northern Alaska the US Department of Energy implemented an integrated field and modeling study to help define potential impacts of energy related disturbances on tundra ecosystems This volume presents major findings from this study A broad range of basic and applied research topics are examined ranging from ecosystem physiology and biogeochemistry to landscape models that quantify the impact of road building on tundra hydrology and ecosystem structure It is an important resource for researchers and students interested in arctic ecology as well as for environmental managers concerned with practical issues of disturbances **Forest Fire** Bhupender Gupta,Ghanshyam Agrawal,Anjali Chauhan,2022-07-07 The book on Forest Fire Characteristics and Management embodies seven chapters providing an updated comprehensive information on history causes types characteristics behaviour effects of fire on ecosystem dynamics i e plant community ecosystem wildlife and soils damaging beneficial effects prediction management and prevention control of forest fires In each chapter the readers will find complete information aptly backed by authentic data examples and illustrations Chapter eight is dedicated to bibliography This book will be useful to students and researchers as a part of their curriculum and for forest managers officials and planners as an important guide for managing forest fires Forest Diversity and Function Michael Scherer-Lorenzen,Ernst-Detlef Schulze,2005 Productivity biodiversity biogeochemical cycles tree *Ecology and Biogeography of Pinus* David M. Richardson,2000-07-31 A comprehensive review essential for all involved in the management of natural and planted pine forests *Ecosystems of Disturbed Ground* L.R. Walker,1999-12-17 As the human population inexorably grows its cumulative impact on the Earth's resources is hard to ignore The ability of the Earth to support more humans is dependent on the ability of humans to manage natural resources wisely Because disturbance alters resource levels effective management requires understanding of the ecology of disturbance This book is the first to take a global approach to the description of both natural and anthropogenic disturbance regimes that physically impact the ground Natural disturbances such as erosion volcanoes wind herbivory flooding and drought plus anthropogenic disturbances such as forestry grazing mining urbanization and military actions are considered Both disturbance impacts and the biotic recovery are addressed as well as the interactions of different types of disturbance Other chapters cover processes that are important to the understanding of disturbance of all types including soil processes nutrient cycles primary productivity succession animal behaviour and competition Humans react to disturbances by avoiding exacerbating or restoring them or by passing environmental legislation All of these issues are covered in this book Managers need better predictive models and robust

data collections that help determine both site specific and generalized responses to disturbance Multiple disturbances have a complex effect on both physical and biotic processes as they interact This book provides a wealth of detail about the process of disturbance and recovery as well as a synthesis of the current state of knowledge about disturbance theory with extensive documentation **General Technical Report SE** ,1991 *Wildlife Review* ,1986 *Biological Report* ,1988

Ecosystem Dynamics of the Boreal Forest : The Kluane Project Vancouver Charles J. Krebs Professor of Zoology University of British Columbia,Edmonton Stan Boutin Professor of Zoology University of Alberta,Rudy Boonstra Professor of Physiology and Zoology University of Toronto,2001-03-31 The boreal forest is one of the world s great ecosystems stretching across North America and Eurasia in an unbroken band and containing about 25% of the world s closed canopy forests The Kluane Boreal Forest Ecosystem Project was a 10 year study by nine of Canada s leading ecologists to unravel the impact of the snowshoe hare cycle on the plants and the other vertebrate species in the boreal forest In much of the boreal forest the snowshoe hare acts as a keystone herbivore fluctuating in 9 10 year cycles and dragging along secondary cycles in predators such as lynx and great horned owls By manipulating the ecosystem on a large scale from the bottom via fertilizer additions and from the top by predator exclosures they have traced the plant herbivore relationships and the predator prey relationships in this ecosystem to try to answer the question of what drives small mammal population cycles This study is unique in being large scale and experimental on a relatively simple ecosystem with the overall goal of defining what determines community structure in the boreal forest Ecosystem Dynamics of the Boreal Forest The Kluane Project summarizes these findings weaving new discoveries of the role of herbivores turned predators compensatory plant growth and predators eating predators with an ecological story rich in details and clear in its findings of a community where predation plays a key role in determining the fate of individuals and populations The study of the Kluane boreal forest raises key questions about the scale of conservation required for boreal forest communities and the many mammals and birds that live there

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