

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

SCOPE 18

Edited by
Ross W. Wein
David A. MacLean

**THE ROLE OF FIRE IN
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Role Of Fire In Northern Circumpolar Ecosystems

**Ronald E. Kirby, Stephen J. Lewis, Terry
N. Sexson**



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 **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 **Ecology of Wildfire Residuals in Boreal Forests** Ajith Perera, Lisa Buse, 2014-09-15 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

Fire in North American Wetland Ecosystems and Fire-wildlife Relations
 Ronald E. Kirby, Stephen J. Lewis, Terry N. Sexson, 1988 *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

General Technical Report SE , 1991 **Arctic Ecosystems in a Changing Climate** F. Stuart Chapin III, Robert L. Jefferies, James F. Reynolds, Gaius R. Shaver, Josef Svoboda, Ellen W. Chu, 2012-12-02 The arctic region is predicted to experience the earliest and most pronounced global warming response to human induced climatic change This book synthesizes information on the physiological ecology of arctic plants discusses how physiological processes influence ecosystem processes and explores how climate warming will affect arctic plants plant communities and ecosystem processes Reviews the physiological ecology of arctic plants Explores biotic controls over community and ecosystems processes Provides physiological bases for predicting how the Arctic will respond to global climate change

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