

# Ecosystem Dynamics of the Boreal Forest

THE KLUANE PROJECT



EDITED BY

**Charles J. Krebs**

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# Ecosystem Dynamics Of The Boreal Forest The Kluane Project

**Justina Ray, Kent H. Redford, Robert  
Steneck, Joel Berger**



## **Ecosystem Dynamics Of The Boreal Forest The Kluane Project:**

**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

**Ecosystem Dynamics of the Boreal Forest** Charles J. Krebs, Stan A. Boutin, Rudy Boonstra, 2001 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

**Alaska's Changing Boreal Forest** F. Stuart Chapin, Mark W. Oswood, Keith van Cleve, Leslie A. Viereck, David L. Verbyla, 2006-01-12 The boreal forest is the northern most woodland biome whose natural history is rooted in the influence of low temperature and high latitude Alaska's boreal forest is now warming as rapidly as the rest of Earth providing an unprecedented look at how this cold adapted fire prone forest adjusts to change This volume synthesizes current understanding of the ecology of Alaska's boreal forests and describes their unique features in the context of circumpolar and global patterns It tells how fire and climate contributed to the biome's current dynamics As climate warms and permafrost permanently frozen ground thaws the boreal forest may be on the cusp of a major change in state The editors have gathered a remarkable set of contributors to discuss this swift environmental and biotic transformation Their chapters cover the properties of the forest the changes it is undergoing and the challenges these alterations present to boreal forest managers In the first section the reader can absorb the geographic and historical context for understanding the boreal forest The book then delves into the dynamics of plant and animal communities inhabiting this forest and the biogeochemical processes that link these organisms In the last section the authors explore landscape phenomena that operate at larger temporal and spatial scales and integrates the processes described in earlier sections Much of the research on which this book is based results from the Bonanza Creek Long Term Ecological Research Program Here is a synthesis of the substantial literature on Alaska's boreal forest that should be accessible to professional ecologists students and the interested public

**Ecology of Predator-Prey Interactions** Pedro Barbosa, Ignacio Castellanos, 2005-08-11 This book addresses the fundamental issues of predator prey interactions with an emphasis on predation among arthropods which have been better studied and for which the database is more extensive than for the large and rare vertebrate predators The book should appeal to ecologists interested in the broad issue of predation effects on communities

*Environmental Education and Advocacy* Edward A. Johnson, Michael J. Mappin, 2005-03-03 Environmental education has often blurred the distinction between ecological science and environmental advocacy Growing public awareness of environmental problems and desire for action may be contributing to this blurring There is a need to clarify the distinction between the role of ecological science and the role of social and political values for the environment within environmental education This book addresses this need by examining the changing perspectives of ecology in education and the changing perspectives of education in environmental education Guidelines are provided for assessing the science and education perspectives within environmental education along with suggested frameworks for development of programs and resources that integrate current science education and action This book will be of interest to environmental educators ecologists interested in environmental education and curriculum and resource developers

*Eighteenth-Century Naturalists of Hudson Bay* Clarence Stuart Houston, Stuart Houston, Tim Ball, Mary Houston, 2003 Where Peter Newman's

best selling trilogy captured the essence of the Hudson's Bay Company HBC as a business empire Eighteenth Century Naturalists of Hudson Bay presents the scientific achievements of the company's early employees drawing largely on materials in the HBC Winnipeg archives C Stuart Houston Tim Ball and Mary Houston make amends for two centuries of neglect of these collector observers showing that fur traders in isolated trading posts on Hudson Bay were involved in some of the earliest stirrings of science on the continent and that the fur traders and Native people worked together in a remarkable symbiosis beneficial to both parties The authors show that meteorologic data and weather information recorded at the HBC trading posts over two centuries provide the largest and longest consecutive series available anywhere in North America one that can help us understand the mechanisms and amount of climate change They demonstrate that Hudson Bay is the second largest site of new bird species named by Linnaeus and reproduce some of George Edwards' colour paintings of these new species Six informative appendices reveal how the invaluable HBC archives were transferred from London England to Winnipeg correct previous misinterpretations of the collaboration and relative contributions of Thomas Hutchins and Andrew Graham use two centuries of HBC fur returns to demonstrate the ten year hare and lynx cycles tell how the swan trade almost extirpated the Trumpeter Swan explain how the Canada Goose got its name before there was a Canada and offer an extensive list of eighteenth century Cree names for birds mammals and fish Informative tables list the eighteenth century surgeons at York Factory and give names and dates for the annual supply ships

*Birds of the Yukon Territory*  
Pamela H. Sinclair, Wendy A. Nixon, Cameron D. Eckert, Nancy L. Hughes, 2011-11-01 The Yukon is a land of remarkable wilderness diverse ecosystems and profound beauty It is also home to a unique assemblage of birds As of 2002 288 bird species have been documented in the Yukon with 223 occurring regularly They occupy an amazing range of habitats from the most barren mountain peaks to lush valley bottom forests and are an integral part of the cultural heritage of Yukon First Nations people The vast areas of natural habitat with limited road access can make the study of birds challenging but are key in defining the nature of birding in the Yukon *Birds of the Yukon Territory* is the result of a decade long project initiated to gather and share what is known about the Yukon's birdlife Lavishly illustrated with 600 colour photographs and 223 hand drawn bird illustrations the book presents a wealth of information on bird distribution migration and breeding chronology nesting behaviour and habitat use and on conservation concerns Two hundred and eighty eight species of birds are documented including 223 regular species and 65 casual and accidental species In compiling this meticulously researched volume the authors consulted over 166 000 records in a database created by the Canadian Wildlife Service with information dating back to 1861 Sections on birds in Aboriginal culture and history and bird names in the Yukon First Nations and Inuvialuit languages enhance the book as do the numerous easily interpreted charts and graphs Destined to become a basic reference work on the avifauna of the North *Birds of the Yukon Territory* is a must have for bird enthusiasts and anyone interested in the natural history of the Yukon and the North

**Wildlife Science** Timothy E. Fulbright, David G.

Hewitt,2007-06-20 Consciously or not wildlife managers generally act from a theoretical basis although they may not be fully versed in the details or ramifications of that theory In practice the predictions of the practitioners sometimes prove more accurate than those of the theoreticians Practitioners and theoreticians need to work together but this proves di

**Managing Forests as Complex Adaptive Systems** Christian C. Messier,Klaus J. Puettmann,K. David Coates,K. Dave Coates,2013 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 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 promote the maintenance of biodiversity quality of water or carbon storage

**Ecologies of Faith in a Digital Age** Stephen D. Lowe,Mary E. Lowe,2018-06-19 Many Christian institutions have embraced new technologies especially online education But is it possible for us to grow spiritually through our digital communities Steve Lowe and Mary Lowe longtime proponents of online education trace the motif of spiritual growth through Scripture and consider how students and professors alike might foster digital ecologies in which spiritual transformation can take place

The Ecology of Place Ian Billick,Mary V. Price,2012-08-01 Ecologists can spend a lifetime researching a small patch of the earth studying the interactions between organisms and the environment and exploring the roles those interactions play in determining distribution abundance and evolutionary change With so few ecologists and so many systems to study generalizations are essential But how do you extrapolate knowledge about a well studied area and apply it elsewhere Through a range of original essays written by eminent ecologists and naturalists The Ecology of Place explores how place focused research yields exportable general knowledge as well as practical local knowledge and how society can facilitate ecological understanding by investing in field sites place centered databases interdisciplinary collaborations and field oriented education programs that emphasize natural history This unique patchwork of case study narratives philosophical musings and historical analyses is tied together with commentaries from editors Ian Billick and Mary Price that develop and synthesize common threads The result is a unique volume rich with all too rare insights into how science is actually done as told by scientists themselves

Population

Ecology in Practice Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments

*Arctic Research of the United States*, 1997

**Large Carnivores and the Conservation of Biodiversity** Justina Ray, Kent H. Redford, Robert Steneck, Joel Berger, 2013-04-09 Large Carnivores and the Conservation of Biodiversity brings together more than thirty leading scientists and conservation practitioners to consider a key question in environmental conservation Is the conservation of large carnivores in ecosystems that evolved with their presence equivalent to the conservation of biological diversity within those systems Building their discussions from empirical long term data sets contributors including James A Estes David S Maehr Tim McClanahan Andr s J Novaro John Terborgh and Rosie Woodroffe explore a variety of issues surrounding the link between predation and biodiversity What is the evidence for or against the link Is it stronger in marine systems What are the implications for conservation strategies Large Carnivores and the Conservation of Biodiversity is the first detailed broad scale examination of the empirical evidence regarding the role of large carnivores in biodiversity conservation in both marine and terrestrial ecosystems It contributes to a much more precise and global understanding of when where and whether protecting and restoring top predators will directly contribute to the conservation of biodiversity Everyone concerned with ecology biodiversity or large carnivores will find this volume a unique and thought provoking analysis and synthesis

**Owls of the United States and Canada** Wayne Lynch, 2021-04-27 An extensive accessible guide to the owls of Canada and the United States featuring beautiful photography There is no group of birds more mysterious and fascinating than owls The loudmouths of the raptor world they peep trill toot bark growl shriek whistle chittle whoop chuckle boom and buzz Indeed very few actually hoot They have become the stuff of lore and legend from the Roman myth that an owl foot could reveal secrets to the First Nations belief that an owl feather

could give a newborn better night vision But the truth about owls is much more exciting In this book natural history writer and wildlife photographer Wayne Lynch reveals the secrets of these elusive species with stunning photographs personal anecdotes and accessible science The photos alone are masterpieces Unlike most published owl photos which are portraits of birds in captivity the vast majority of these were taken in the wild a product of the author photographer s incredible knowledge and patience Lynch complements the photos with a wealth of facts about anatomy habitat diet and family life For each of the nineteen species that inhabit Canada and the United States he provides a range map and a brief discussion of its distribution population size and status Lynch debunks myths about owls supernatural powers of sight and hearing discusses courtship rituals and offers personal tips for finding owls in the wild From the great horned to the tiny elf owl this amazing volume captures the beauty and mystery of these charismatic birds of prey Named one of the Best Reference Books of 2007 by Library Journal

**Applying Graph Theory in Ecological Research** Mark R.T. Dale,2017-11-09 This book clearly describes the many applications of graph theory to ecological questions providing instruction and encouragement to researchers

Ecological Orbits Lev Ginzburg,Mark Colyvan,2004-04-29 A famous ecologist and a philosopher of science team up to offer a fresh new approach to population biology and ecology Challenging the traditionally accepted Lotka Volterra model which is based on predator prey interactions this new model emphasizes maternal effects specifically the significance of a mother s interest in the success of her female offspring

**The Migration Ecology of Birds** Ian Newton,2010-08-04 This book presents an up to date detailed and thorough review of the most fascinating ecological findings of bird migration It deals with all aspects of this absorbing subject including the problems of navigation and vagrancy the timing and physiological control of migration the factors that limit their populations and more Author Ian Newton reveals the extraordinary adaptability of birds to the variable and changing conditions across the globe including current climate change This adventurous book places emphasis on ecological aspects which have received only scant attention in previous publications Overall the book provides the most thorough and in depth appraisal of current information available with abundant tables maps and diagrams and many new insights Written in a clear and readable style this book appeals not only to migration researchers in the field and Ornithologists but to anyone with an interest in this fascinating subject Hot ecological aspects include various types of bird movements including dispersal and nomadism and how they relate to food supplies and other external conditions Contains numerous tables maps and diagrams a glossary and a bibliography of more than 2 700 references Written by an active researcher with a distinguished career in avian ecology including migration research

*Spatial Analysis* Marie-Josée Fortin,Mark R. T. Dale,2005-04-21 The spatial and temporal dimensions of ecological phenomena have always been inherent in the conceptual framework of ecology but only recently have they been incorporated explicitly into ecological theory sampling design experimental design and models Statistical techniques for spatial analysis of ecological data are burgeoning and many ecologists are unfamiliar with what is available and how the

techniques should be used correctly This book gives an overview of the wide range of spatial statistics available to analyse ecological data and provides advice and guidance for graduate students and practising researchers who are either about to embark on spatial analysis in ecological studies or who have started but are unsure how to proceed Only a basic understanding of statistics is assumed and many schematic illustrations are given to complement or replace mathematical technicalities making the book accessible to ecologists wishing to enter this important and fast growing field for the first time

*Climate Change Adaptation Plan for Australian Birds* Stephen Garnett, Donald Franklin, 2014-05-30 This is the first climate change adaptation plan produced for a national faunal group anywhere in the world It outlines the nature of threats related to climate change for the Australian bird taxa most likely to be affected by climate change and provides recommendations on what might be done to assist them and approximate costs of doing so It also features an analysis of how climate change will affect all Australian birds explains why some species are likely to be more exposed or sensitive to it than others and explores the theory and practice of conservation management under the realities of a changing climate Species profiles include maps showing current core habitat and modelled climatic suitability based on historical records as well as maps showing projected climatic suitability in 2085 in relation to current core habitat *Climate Change Adaptation Plan for Australian Birds* is an important reference for policy makers conservation scientists land managers climate change adaptation biologists as well as bird watchers and advocacy groups

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