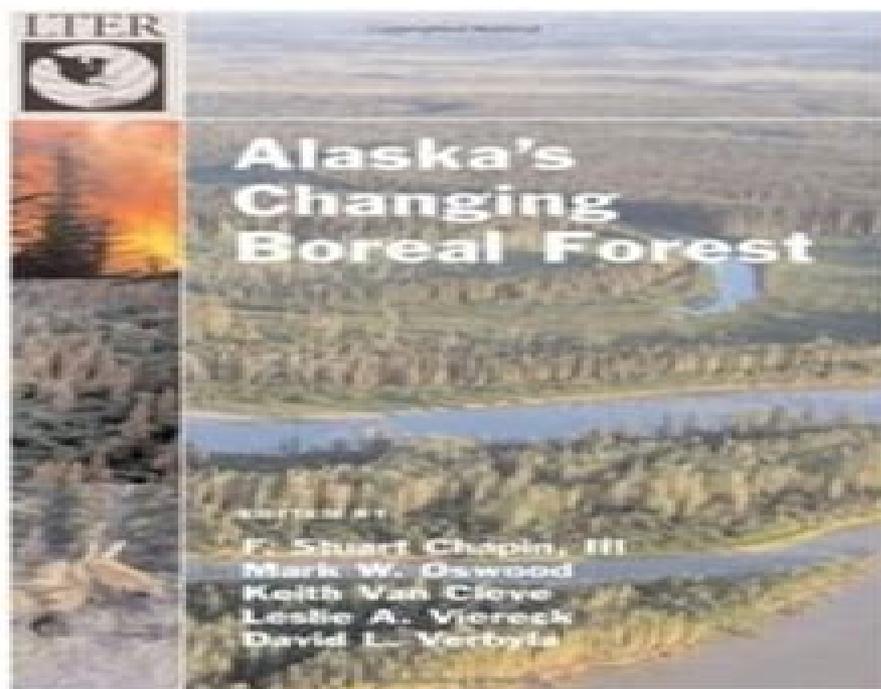


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Alaska's Changing Boreal Forest F. Stuart Chapin, Mark W. Oswood, Keith van Cleve, Leslie A. Viereck, David L. Verbyla, 2006-01-12 The boreal forest is the northern most woodland biome whose natural history is rooted in the influence of low temperature 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

[Arctic Hydrology, Permafrost and Ecosystems](#) Daqing Yang, Douglas L. Kane, 2020-08-28 This book provides a comprehensive up to date assessment of the key terrestrial components of the Arctic system i e its hydrology permafrost and ecology drawing on the latest research results from across the circumpolar regions The Arctic is an integrated system the elements of which are closely linked by the atmosphere ocean and land Using an integrated system approach the book s 30 chapters written by a diverse team of leading scholars carefully examine Arctic climate variability change large river hydrology lakes and wetlands snow cover and ice processes permafrost characteristics vegetation landscape changes and the future trajectory of Arctic system evolution The discussions cover the fundamental features of and processes in the Arctic system with a special focus on critical knowledge gaps i e the interactions and feedbacks between water permafrost and ecosystem such as snow pack and permafrost changes and their impacts on basin hydrology and ecology river flow geochemistry and energy fluxes to the Arctic Ocean and the structure and function of the Arctic ecosystem in response to past future changes in climate hydrology and permafrost conditions Given its scope the book offers a valuable resource for researchers graduate students

environmentalists managers and administrators who are concerned with the northern environment and resources

Sudden and Disruptive Climate Change Michael C. MacCracken, Frances Moore, John C. Topping Jr., 2012-05-04 While changes in emissions and atmospheric concentrations of greenhouse gases are projected to be slow and smooth the intensity and impacts of climate change on the environment and society could be abrupt and erratic Surprising and nonlinear responses are likely to occur as warming exceeds certain thresholds inducing relatively rapid and disruptive changes in the Greenland and West Antarctic ice sheets precipitation intensity and patterns coastal inundation the occurrence of wildfire the ranges of plant and animal species and more Written by a transdisciplinary group of internationally respected scientists
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Carbon Sequestration in Alaska's Boreal Forest Nancy Fresco, 2006 Northern ecosystems and those who rely upon them are facing a time of unprecedented rapid change Global boreal forests will play an important role in the feedback loop between climate ecosystems and society In this thesis I examine forest carbon dynamics and the potential for carbon management in Interior boreal Alaska in three distinct frameworks then analyze my results in the context of social ecological resilience In Chapter 1 I analyze comparative historical trends and current regulatory frameworks governing the use and management of boreal forests in Russia Sweden Canada and Alaska and assess indicators of socio ecological sustainability in these regions I conclude that low population density limited fire suppression and restricted economic expansion in Interior Alaska have resulted in a 21st century landscape with less compromised human ecosystem interactions than other regions Relative wealth and a strong regulatory framework put Alaska in a position to manage for long term objectives such as carbon sequestration In Chapter 2 I model the landscape level ecological possibilities for sequestration under three different climate scenarios and associated changes in fire and forest growth My results indicate that Interior Alaska could act as either a weak carbon source or as a weak sink in the next hundred years and that management for carbon credits via fire suppression would be inadvisable given the associated uncertainty and risks In Chapter 3 I perform a social ecological and economic analysis of the feasibility of switching from fossil fuels to wood energy in Interior Alaska villages I demonstrate that this is a viable option with the potential benefits of providing lower cost power creating local employment reducing the risk of catastrophic wildfire near human habitation and earning marketable carbon credits Finally in Chapter 4 I assess how each of the above factors may impact social ecological resilience My results show some system characteristics that tend to bolster resilience and others that tend to increase vulnerability I argue that in order to reduce vulnerability management goals for Alaska's boreal forest must be long term flexible cooperative and locally integrated
[Arctic, Antarctic, and Alpine Research](#), 2009
Environmental Controls on Algal Community Structure and Function in Boreal Wetlands Kevin Howard

Wyatt,2010 Ninth International Conference on Permafrost Douglas L. Kane,Kenneth M. Hinkel,2008 Climate Change Interactions at the Edge Joanna L. Nelson,2011 **Temperate Forest Biomes** Bernd Kuennecke,2008-10-30 Offers an overview of the temperate forest that covers much of North America describing the three types of temperate forest biomes and the aspects that define them *Recent Mammals of Alaska* Frédéric Laugrand,Stephen O. MacDonald,Joseph A. Cook,2009-06-15 The authors explore the relationships between Inuit shamans and their ability to communicate with nonhuman beings like Sedna the sea woman and how this is reflected and expressed in Inuit art The authors show that despite the current dominance of Christianity contemporary Inuit art and culture are still powerfully shaped and influenced by the shamanic traditions of the past *Forest Magazine* ,2007 **Soil Hydroclimate, Vegetation, and Substrate Controls on Carbon Flux in an Alaskan Pen** Molly R. Conlin,2008 **Agroborealis** ,2010 The American Naturalist ,2009 Forest Science ,2014 **Alaska's Forests & Wildlife** ,1995 Joyce in the Belly of the Big Truck; Workbook Joyce A. Cascio,2005-05

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high speed spindles in machine tools they are also used in some critical hydraulic circulation systems and air line oilers
where the appropriate viscosity grade is selected