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The fate of this carbon,
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and indeed of boreal peatland ecosystems, in the face of ongoing climate change remains uncertain. Peatlands also are the basis for a variety of human activities, including harvest for the horticultural industry, harvest for fuel, and forestry, the last especially in Scandinavian countries. Peatlands provide habitat for a

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unique suite of animal
species.

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About this book.

Keywords.

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Working within two

large ecosystem

manipulation

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controls on
composition and
diversity in two types
of common boreal
peatlands: a nutrient
rich fen located at the
Alaska Peatland
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ombrotrophic bog
located in northern
Minnesota at the
Spruce and Peatland
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(SPRUCE) experiment.

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plant composition
and ...**

Most of the world's peat-forming ecosystems occur in the boreal zone where they play important roles in carbon sequestration, erosional control, and landscape filtration. Peatlands are uniquely...

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boreal peatland

ecosystems bogs and
fens cover only about 3

of the earths land

surface but their

overall ecological and

societal importance is

proportionately much

greater than their area

might suggest Boreal

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(2003a) Between year
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Thus the paludification
process includes a shift

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from forests, grassland or long exposed bare land to peatland. The initiation of this accumulation of organic matter (i.e. peat), can be controlled by both allogenic (i.e. external to the ecosystem) and autogenic (i.e. internal to the ecosystem) factors.

Paludification - Wikipedia

The primary study area

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for development of the
peatland mapping
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approach was located
in northeastern
Alberta, Canada
approximately 175 km
north of Edmonton
(Figure 1). This region
falls within the
extensive low-lying
valleys and plains of
the Boreal Plains
Ecozone and contains
extensive peatland
complexes (>30%)
intermixed with
uplands.

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**Mapping Boreal
Peatland Ecosystem
Types from Multi ...**

Get this from a library!
Boreal peatland
ecosystems. [R Kelman
Wieder; Dale H Vitt;] --
This volume adopts an
ecosystems approach
to understanding the
world's boreal
peatlands. It focuses
on biogeochemical
patterns and
processes, production,
decomposition, and

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peat accumulation, and
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**Boreal peatland
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Introduction. Peatland ecosystems are characterized by a substantial accumulation of organic matter in soil (peat), resulting from long-term excess of net primary production at the surface compared

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to decomposition throughout the peat column. Globally, peatlands cover 3–4 percent of the earth's land surface, yet they store 25–30 percent of the world's soil carbon (about 455 Pg of C) and 9–16 percent of the world's soil nitrogen (8–15 Pg of N) in peat.

Peatlands - Ecology - Oxford Bibliographies

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boreal forest / R.

Kelman Wieder, Dale
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Benscoter

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development of boreal
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Fire is a natural part of
boreal forest
ecosystem dynamics
and can regenerate
food sources for large
mammals such as
moose and decrease
insect outbreaks.

Historically, most fires

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were caused by lightning strikes.

Today, humans cause most fires but lightning-caused fires consume a greater areal extent.

Sources and sinks of carbon in boreal ecosystems of ...

productivity will affect overall rates of ecosystem carbon exchange (Weltzin et al., 2000). These studies indicate that peatland above-

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ground productivity is determined by a series of complex and poorly resolved interactions among plant species, temperature, and hydrology.

The response of boreal peatland community composition and ...

Existing data indicates over 80% of boreal anthropogenic disturbances are linear disturbances, however,

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limited information exists on their impacts on peatland function. The goal of my project is to investigate the impact of seismic lines on carbon cycling and greenhouse gas exchange in peatlands in boreal Alberta.

Soil and Ecohydrology Team | Boreal Ecosystem Recovery and ...

It is unique to natural areas called peatlands,

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bogs, mires, moors, or muskegs. The peatland ecosystem covers 3.7 million square kilometres and is the most efficient carbon sink on the planet, because peatland plants capture CO₂ naturally released from the peat, maintaining an equilibrium.

Peat - Wikipedia

"While only a few tree species occur in the boreal forest, its

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diversity in ecosystem structure, forest age, topography, peatland occurrence and permafrost conditions is enormous, and our paper ...

**Fuels, not fire
weather, control
carbon emissions in**

...

Fuels, not fire weather, control carbon emissions in boreal forest, new study finds
Posted by Heather Tate

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on October 13, 2020 As
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stokes longer fire
seasons and more
severe fires in the
North American boreal
forest, being able to
calculate how much
carbon each fire burns
grows more urgent.

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