

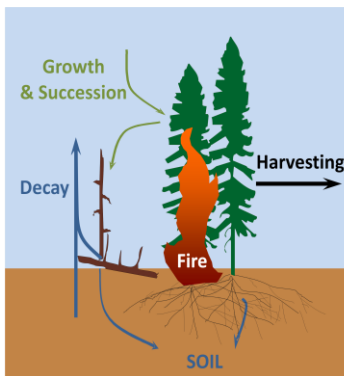
ClimateNews is a snapshot of new and emerging climate change adaptation and mitigation activities in the natural resource sector.

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Simulating Climate Change and Carbon Dynamics in Forested Landscapes

A free computer model is now available to help forest and natural resource managers explore different adaptive management regimes and climate change impacts on forest ecosystems and carbon.



This image illustrates the how ForCv1 represents the forest carbon cycle; a mash-up between the LANDIS-II Biomass Succession Model (green) and the Carbon Budget Model of the Canadian Forest Sector (blue).

Forest managers can use the Forest Carbon Succession v1.0 (ForCv1) to model multi-species and multi-age stands in a spatially-explicit landscape. The model can simulate disturbances of harvesting, fire, insects and more. It has been successfully tested on Vancouver Island.

ForCv1 is a collaborative effort between the BC Ministry of Forests, Lands and Natural Resource Operations, Portland State University, the Canadian Forest Service, and ESSA Technologies Inc. It's an extension that plugs into the LANDIS-II model.

[Download the model here.](#) For more information, contact Caren.Dymond@gov.bc.ca.

Association of BC Forest Professionals (ABCFP) Climate Change Awareness Member Survey

This February, the ABCFP surveyed members to establish baseline information on climate change awareness. In total, 1500 (27% of members) responded to the survey. Survey topics included:

- real or perceived threats to forests in a changing climate;

Response	Chart	Percentage
Increased levels of natural disturbance/mortality due to wildfires		59%
Increased levels of natural disturbance/mortality due to insects and disease		83%
Regeneration failures		43%
Changes in stand-level productivity		34%
Increase in invasive species		50%
Genetic maladaptation		23%
Biome conversion (e.g. forest to shrub, grassland, etc.)		32%
Business disruptions due to extreme weather		41%
Other, please specify...		13%

- potential barriers or impediments that forest professionals face in climate change related forestry decisions; and
- current adaptation practices.

Members noted a lack of training on climate change and adaptation. 60% of respondents indicated they do not have appropriate training to make balanced, scientifically sound adaptation decisions. [View the complete results here.](#)



Tools for Adapting Forest Stewardship to a Changing Climate

Regional Climate Change Summaries

To better inform decision making in response to BC's changing climate, MFLNRO is working with the Pacific Climate Impacts Consortium



(PCIC) to produce a series of regional climate summaries.

The summaries provide an overview of each region's climate over the last 100 years, projections of future climate, and impacts to resources. Draft summaries are near completion. Final summaries are scheduled for release late spring via [PCIC's web site](#).

A useful tool for custom queries of historic and projected future climate for BC is [PCIC's plan2adapt tool](#). It generates maps, plots and data according to user-selected regions.



NEWS Bites

Flexibility in FRPA to incorporate adaptation into Forest Stewardship Plans

Wondering about flexibility in the Forests and Range Practices Act (FRPA) for [incorporating adaptation into a Forest Stewardship Plan](#)? Or [what policy and guidance MFLNRO is providing](#) to help you adapt your management practices? The MFLNRO [Adaptation Knowledge and Tools](#) website is updated regularly with the latest policy, guidance and more.

Resilient Forests and Ecosystems Workshops

This February and March, MFLNRO held six *Managing for Resilient Forests and Ecosystems* workshops. Feedback was positive and the Ministry is considering more workshops. Stay tuned for follow up in the next edition of ClimateNews. [View the workshop materials under 'Knowledge' here](#). For more information, contact Kathy.Hopkins@gov.bc.ca.

National Reports on Adapting Sustainable Forest Management (SFM) to Climate Change

BC partnered with other provinces, territories, and the federal government through the [Canadian Council of Forest Ministers \(CCFM\) Climate Change Task Force](#) to release four new reports:

- [Preparing for the future](#)
- [Exploring organizational readiness](#)

- [Assessing vulnerability and mainstreaming adaptation into decision-making](#)
- [Using scenarios for vulnerability assessment](#).

Natural Resource Sector (NRS) Learning Series - Climate Change Mini-Series

The NRS Learning Series is hosting a mini-series of webinars on climate change.

- *Climate Change Adaptation Part 1* (March) covered climate change adaptation efforts in BC, forestry's role in climate change and MFLNRO's action plan for adapting BC forests.
- *Climate Change Adaptation Part 2 - Urban Communities and Climate Change* (April) addressed how local governments are planning to benefit from forest sequestration, how fire-adapted communities are created, and how biofuels can help offset emissions.

[Recordings of the sessions and materials are here.](#)

Details on future sessions are to be determined, and will be noted in ClimateNews.

Ethical Implications of Assisted Migrations: Panel Interview on CBC Radio's "The Current"

In October 2012, Dr. Sally Aitken, Forest Geneticist, UBC Faculty of Forestry, discussed the opportunities and risks of assisting the migration of species in response to climate change. BC is a world leader, said Aitken, in testing new tree species outside of their native ranges; a reference to the [Assisted Migration and Adaptation Trial](#) led by MFLNRO's Dr. Greg O'Neill at the Kalamalka Forestry Centre. [Listen to the interview here.](#)

Interesting project or experience to share on managing for climate change in the natural resource sector? News for others on topics related to adaptation and mitigation? Suggestions or comments about ClimateNews? Contact katharine.mccallion@gov.bc.ca