

Preparing for Change: Climate Action in British Columbia

**Growing Old in a Changing
Climate**

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ecstaticist

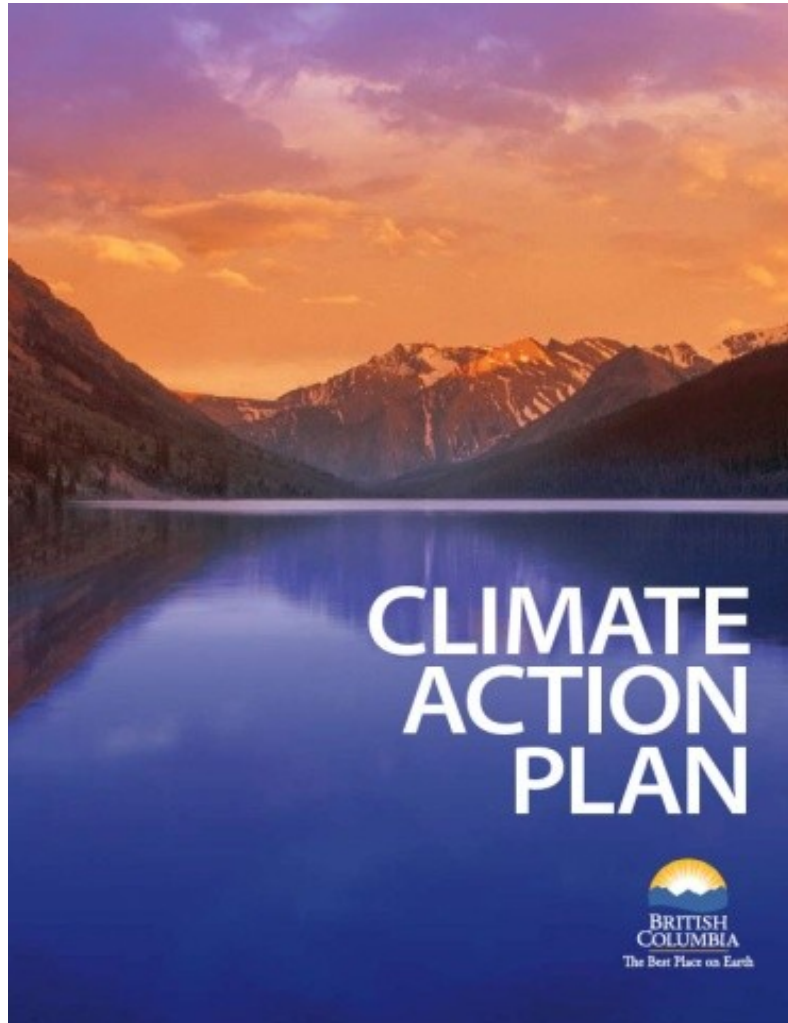
Climate action requires both...

MITIGATION

Reducing
greenhouse gas
emissions

ADAPTATION

Adjusting what
we do to avoid
negative
impacts and
take advantage
of opportunities



33%
Reduction
in GHG by 2020

1ST
Broad-Based
Revenue Neutral
Carbon Tax

80%
Reduction
in GHG by 2050

93%
Clean Electricity
Production

100%
Carbon-Neutral
Government by 2010

B.C.'s Adaptation Strategy

VISION

BC is prepared for and resilient to the impacts of climate change

1) Build a strong foundation of knowledge and tools

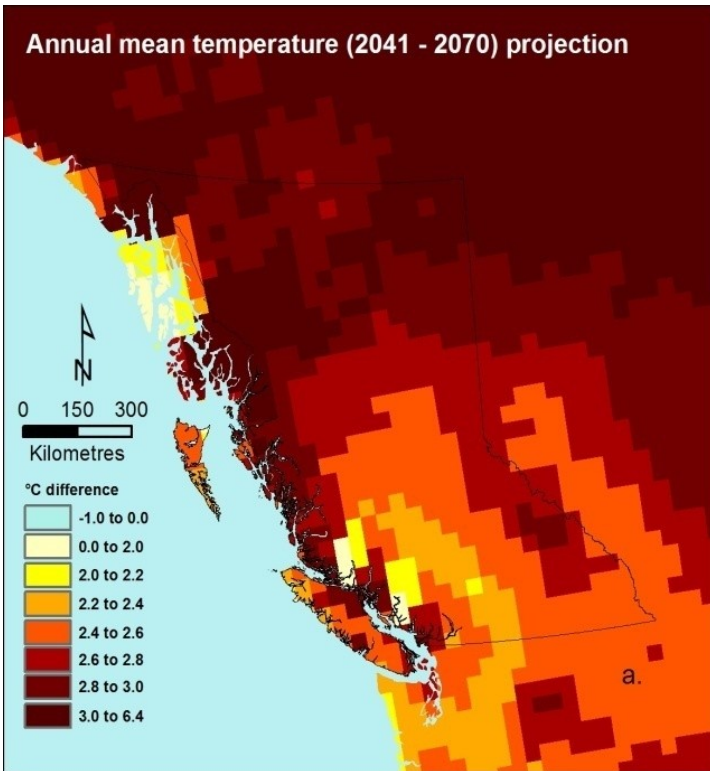
- climate science
- monitoring
- tools for decision-makers
- knowledge transfer

2) Make adaptation part of the BC Gov't's business

- gov't planning
- integrate in relevant legislation, regulations, approvals
- cross-gov't coordination

3) Assess risks and implement priority actions in climate-sensitive sectors

Support climate science and monitoring



Pacific Institute
for Climate Solutions
Knowledge. Insight. Action.

- PICS: research on solutions for mitigation and adaptation
- PCIC: historical and future climate information; modeling of climate impacts
- Enhancing meteorological network

Adaptation tools and knowledge transfer



PLAN2ADAPT

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Summary

Impacts

Temperature

Precipitation

Snowfall

Growing DD

Heating DD

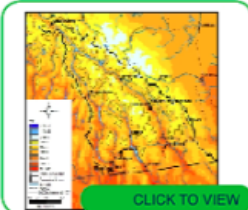
Frost-Free Days

Settings

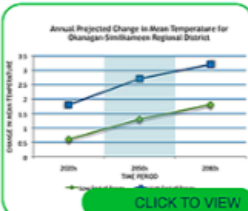
Notes

References

Future Temperature* Projections



Click on the thumbnail at left to view high-resolution maps showing **Annual** temperature* for the **British Columbia** region for both the historical baseline (1961-1990) period and the **2050s** period. An accompanying range plot shows how the results illustrated in the projected future map compare to a PCIC standard set of Global Climate Model (GCM) projections (see 'Notes' tab for more information).



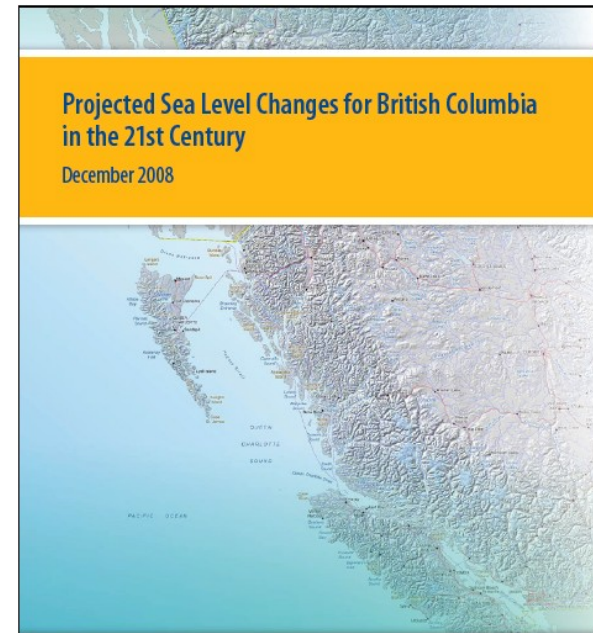
Click on the thumbnail at left to view a plot showing the range of projected change in **Annual** temperature* for the **British Columbia** region over three future periods (2020s, 2050s, and 2080s) according to a PCIC standard set of Global Climate Model (GCM) projections (see 'Notes' tab for more information).

The data used for the future projections are also available for download as a CSV (comma-separated values) file that can be imported into a spreadsheet program.

* Temperature refers to the average of the nighttime low (minimum temperature) and the daytime high (maximum temperature).

Projected Sea Level Changes for British Columbia in the 21st Century

December 2008



Engaging British Columbian's



LiveSmart BC An online community for **Climate Action Leaders**

Home About Events Themes Regions **Sectors** Workspaces Members

Community Sectors

Have something to say? Check out these sector focused sections of the site to contribute your thoughts, ideas, and questions on sector related issues. You can:

- Write a Blog Article about something important
- Ask a question or join/start a discussion in the sector forum
- Connect with other people in your sector to collaborate
- Check out what people are up to in other sectors and contribute your thoughts and ideas

Public Sector Organizations

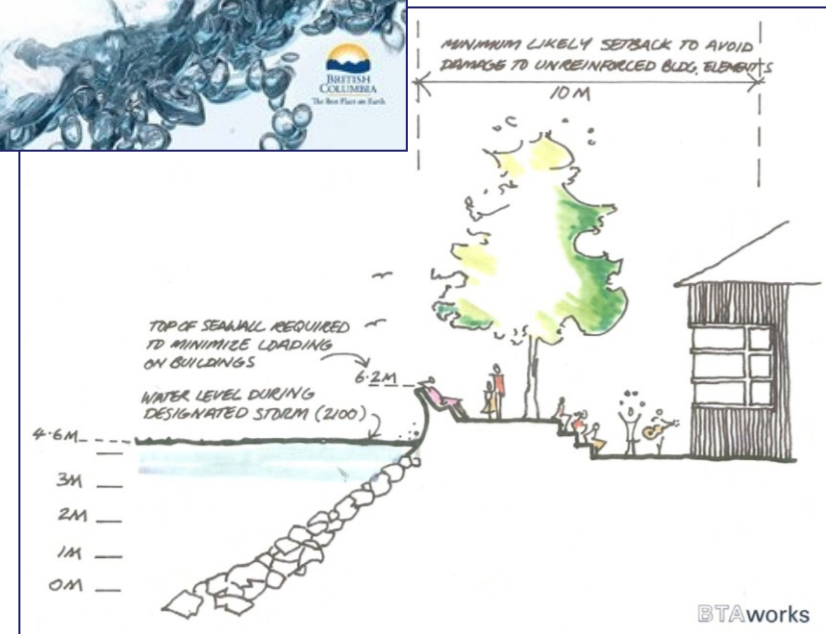
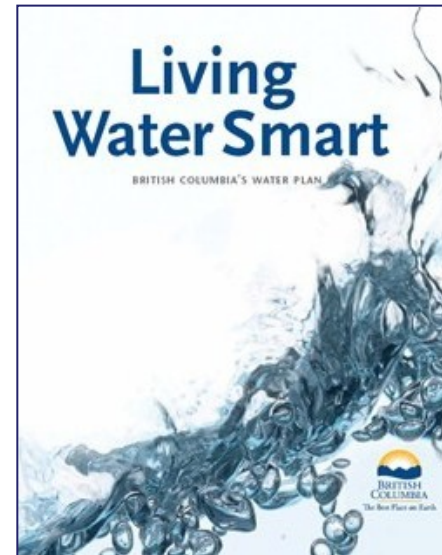
Grassroots/Non-Government

Local Government

Business

Mainstreaming adaptation

- Consider adaptation in planning (Service Plans, business plans)
- Integrate in relevant legislations, regulations, approvals
- Strengthen cross-gov't coordination
- Engage and work with partners
- Integrate adaptation into initiatives to reduce emissions



Sectoral assessments

- Min. of Transportation assessing highway engineering design with Engineers Canada
- Min. Forests, Lands and Natural Resource Ops., Future Forest Ecosystem Initiative
- BCAC Climate Action Initiative, Agriculture Opportunity and Risk Assessment
- Proposed flood hazard assessment



Age-friendly = climate-friendly

- Complete, compact, green communities
- Emission reductions will generate environmental and health benefits
- Adaptation response that considers seniors unique vulnerabilities
- Strengthen ability to cope with stress (reduced isolation, community networks and support, senior-friendly emergency response etc.)



Image Source: Collaborative for Advanced Landscape Planning, UBC

Closing thoughts

- Enable local and regional policy and action
- Improve understanding of health impacts and population needs in B.C.
 - Direct physical impacts and indirect socioeconomic and environmental pathways
- Explore potential interactions between these lines of policy development
- Continue to build partnership and networks



Thank You

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Photo credit: Linda Myers, Bamfield Community Emergency
Management Program