Climate Projections for Metro Vancouver

REGIONAL IMPACTS AND ADAPTATION

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Outline

- Climate Modelling
- Climate Projections
- Regional Impacts & Adaptation Planning



Climate modelling

Scope:

Develop common set of local temperature and precipitation projections based on latest climate science



Climate Projections

Summer average daily high temperature (past)



Summer average daily high temperature (2050s)



Summer days (T > 25°C)



Past 2050s 2080s



Cooling and heating degree days



Growing season



Winter average nighttime low temperature (past)



Winter average nighttime low temperature (2050s)



April 1st snowpack



Past 2050s 2080s



Seasonal precipitation changes



13

1-in-20-yr wettest day precipitation (past)



1-in-20-yr wettest day precipitation (2050s)



Sea level rise (for reference)



Regional Impacts & Adaptation



Water supply and demand



Sewerage and drainage



Buildings and energy systems

Air quality and human health



Ecosystems and agriculture



