The Climate Atlas of Canada Student Handbook

Saskatoo

Prairie Climate Centre From Risk to Resilience

Climate Change Topics

The topics page allows users to narrow down the climate change content they want to see based on the listed topics they are interested in exploring





Take Action

Climate change impacts all of us. Its causes and effects are deeply linked to all aspects of modern life, which means there are many meaningful choices we can make that will help.

Climate Change Content

Articles and videos are available on numerous climate change topics that simplify complex scientific information.

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Atlas climatique () Climate Atlas

du cañada er canada

Quality Control Wildfire, water, and our health



Atlas climatique) Climate Atlas

Aggravated allergies

Predicting pollen levels in a changing climate

Atlas climatique 🕞 Climate Atlas

We Didn't Start the Fire Youth Activism, Climate Crisis and Mental Health

How to get to the interactive map



www.climateatlas.ca

The Climate Atlas is an interactive map that allows users to see how the climate is projected to change through time across Canada



See next pages for breakdown of map features



The legend shows what the colours mean & the title explains what variable is being viewed

2 Map settings

Select the scale you want for regions shown on the map

Choose between average values or the amount of change between recent past and a future time period



Climate Scenarios

More Climate Change, or "High Carbon" Scenario

Less/Reduced Climate Change, or "Low Carbon" Scenario

4 Time Periods

The Recent Past (1976-2005) -

Maps and data describe climate conditions in the recent past.

The Immediate Future (2021-2050)

- Most Canadians will see these changes come to pass.

The Near Future (2051-2080) -

Younger Canadians will likely experience all of these changes,



5

Climate Variables

Variables are broken down into 5 categories:

- Hot weather
- Cold weather
- Temperature
- Precipitation
- Agriculture

Tip:



Use the map info icon (top left) to learn more about the variable you have selected



Watch

The Climate Atlas of Canada Tour



Practice

Example: TROPICAL NIGHTS in OTTAWA, ON under MORE CLIMATE CHANGE

Variable	Variable		Difference		
Category		Recent past (1976 - 2005)	Immediate future (2021 - 2050)	Near future (2052 - 2080)	between recent past (1976 - 2005) and near future (2052 - 2080)
- <mark>泱</mark> - Hot Weather	Tropical Nights				

Practice - Answers

Example: TROPICAL NIGHTS in OTTAWA, ON under MORE CLIMATE CHANGE

Variable	Variable		Difference		
Category		Recent past (1976 - 2005)	Immediate future (2021 - 2050)	Near future (2052 - 2080)	between recent past (1976 - 2005) and near future (2052 - 2080)
- <mark>iộ:</mark> Hot Weather	Tropical Nights	4.5 nights	15.2 nights	35.1 nights	30.6 nights

Why does this matter?

Hot summer days are physiologically stressful, especially if overnight temperatures do not provide cooling relief. Many people are at risk from suffering heat exhaustion or heat stroke when nighttime temperatures fail to drop below 20 °C.

Elderly people, the homeless, and those who live in houses or apartments without air conditioning are especially vulnerable during these heat events, particularly if they last for more than a few days.