



Photo: CLIMAtlantic

# Precipitation Projections: Understanding the Latest Climate Data

## Analyzing trends in precipitation variables can support decision-making

- Using climate data helps us learn about typical precipitation patterns in local areas: how often it falls, how much falls, and what type it is. We can also analyze how these patterns are changing over time.
- Insights from climate data can help the water resources sector to make informed decisions.

## Climate change adjusted IDF curves can provide insights into extreme rainfall

- More intense rainfall is becoming more common in a warming climate.
- Analyzing historical and climate change-adjusted Intensity-Duration-Frequency (IDF) curves can help us understand how exactly the frequency of extreme rainfall is changing.

## Data portals offer a wealth of freely accessible information

- Canada's suite of climate data portals includes the [Climate Atlas of Canada](#), [ClimateData.ca](#), and [PAVICS](#).
- ClimateData.ca is a great entry point for generating useful insights, with capabilities including map views of temperature and precipitation variables, sea level rise projections, rainfall IDF data, spatial analogues and fire weather applications, and more.

## Select appropriate climate data for your purpose

Some good guiding questions for data selection are:

- What is the context for using climate data?
- What are the consequences of the choice?
- What is the timeline?
- What climate variable is of interest?
- Is using specific data feasible in practice?

## Additional Resources

- CLIMAtlantic's [Coastal Adaptation Toolkit](#) was developed to help Atlantic rural coastal communities and property owners plan for the effects of climate change.
- Regional climate services hubs across the country can provide guidance on finding and using climate change data, tools, and resources. Connect with [CLIMAtlantic](#), [Ouranos](#), [ORCCA](#), [ClimateWest](#), [PCIC](#), or the [Canadian Centre for Climate Services](#) to learn more.
- Learn about Flood Impact Maps, a standardized approach of understanding vulnerable landscapes across Canada, in [this webinar](#) by Dr. Slobodan Simonović.
- If you have a coastal property, learn how to make it more resilient during storms and winters with property assessment and monitoring by watching [this webinar](#) by Helping Nature Heal Inc.

Join the free Freshwater Stewardship Community!  
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