

# Canada is warming at twice the global rate.

(Environment and Climate Change Canada, 2019)

# What causes sea-level rise?



## Thermal expansion

Warmer water expands. Nearly 50 per cent of sea level rise is from warmer water taking up more space.

# Glacial melt

Glaciers are warming and melting faster than snow can replenish them.

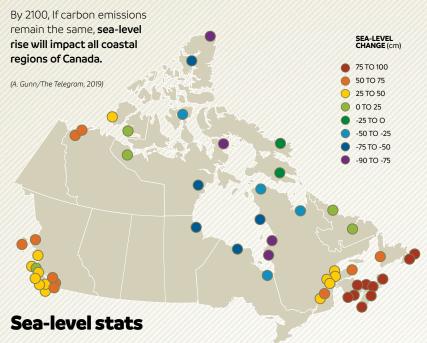




### Loss of ice sheets

Massive amounts of ice in Antarctica and Greenland are disappearing, putting more water into oceans.

# Sea-level rise areas of concern



- Canada has 243,000 kilometres of coastline
- 6.5 million Canadians live in impacted areas
- O Alberta and Saskatchewan are the only provinces without a coastline



# Ice, ice maybe

By 2050, it's possible that **Canada's North** will be ice-free a month (or more) each year

# Salt marshes can help.

# What wetlands can do:

- o act as nature's defence system to rising water levels
- reduce coastal energy
- lower the amplitude and speed of ocean waves
- mitigate storm damage by absorbing storm energy
- shield coastlines from erosion
- filtrate water by intercepting pollution

