

# CLIMATE CHANGE AND THE ENVIRONMENT

## CANADA

has received **16%** more precipitation in the past six decades

Annual average air temperature has warmed

**1.5°C** 

in the past six decades

The **ARCTIC**

is warming twice as fast as the south



**2001-2010:** warmest decade on record

Warmer temperatures increase water **evaporation**, leading to bigger and more **dangerous storms**



Temperature over land is **WARMING** faster than over oceans

## PERMAFROST

temperatures across the country have increased

There is a great loss of **snow cover** in the **spring** and **summer**



Melting permafrost releases **GREENHOUSE GASES**



## MELTING GLACIERS

contribute to rising sea levels

## SEA ICE

is shrinking more and more

## OCEAN ACIDIFICATION

Too much CO<sub>2</sub> is absorbed into the water, making it difficult for some species to build shells and skeletal structures. Some waters are already considered "corrosive" to these organisms.



## GLOBAL WARMING

stops these layers from mixing properly, impacting the exchange of nutrients, heat and CO<sub>2</sub>

In some areas, there is a lack of oxygen in the water, which is harmful to

## MARINE LIFE



## RIVER FLOW

has decreased over the past few decades in southern Canada but increased in northern Canada