

# 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

## RIVER FLOW

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

Each decade,  
**SEA ICE**  
is shrinking more  
and more

## STRATIFICATION

is the formation of different  
layers of water in the ocean

## 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

