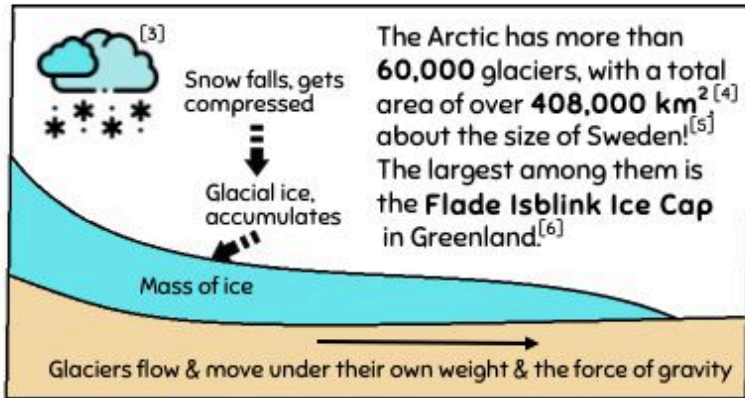


MELTING GLACIERS IN THE ARCTIC

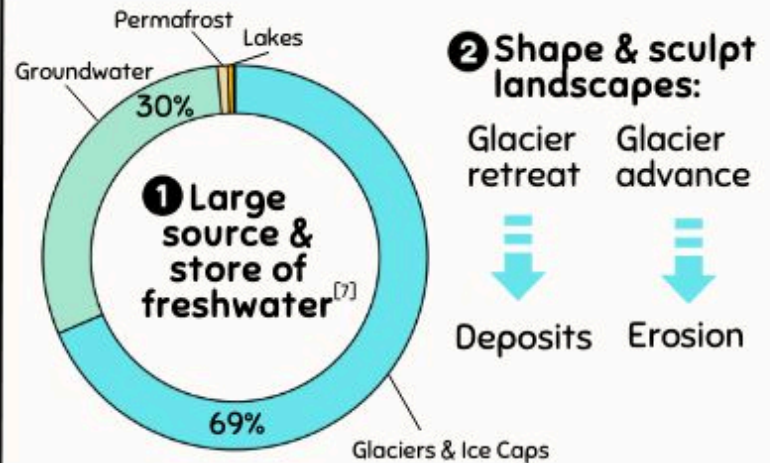


WHAT ARE GLACIERS?

A glacier is a mass of ice that forms on land and that is moving slowly^[2]



WHY ARE GLACIERS IMPORTANT?



HOW ARE GLACIERS RESPONDING TO CLIMATE CHANGE?

 Rising temperatures are causing glaciers to **melt rapidly**

By **2100**, based on **intermediate** and **high** emission scenarios...

 in the Arctic...

Glaciers will lose **30%** to **43%** of their volume



which is equivalent to...



 & in the Canadian Arctic...


Glaciers will lose **26%** to **35%** of their volume




...making the Arctic, and the Canadian Arctic specifically, the **largest contributor** to sea level rise through glacier melting^[4]

HOW ARE MELTING GLACIERS AFFECTING CANADIAN COMMUNITIES?

 Glaciers used as landmarks for orientation are disappearing and changing shape and size^[8]
Two ice caps in St. Patrick's Bay on Ellesmere Island have already disappeared.^[9]

 Glacial lakes – a source of freshwater and hydropower – will diminish once the glaciers disappear. Water levels in Kluane Lake have already declined by two meters.^[10]

 Glacier tourism will decline as glaciers become smaller and less striking. Tourism is an important source of income for locals; in Nunavut, it contributes \$300 million to the economy and creates 2,500 jobs every year.^[12]

 Hazards caused by flooding and erosion will increase as glaciers melt more rapidly.^[14]
Glacier floods have already been recorded in 30 different sites across Canada.^[15]