

Biggest loss of glacial mass on record

The largest recorded decrease in glacial mass has occurred in the past six years, with an estimated 450 gigatons of ice lost in 2024 alone

CHANGES IN MOUNTAIN REGIONS

Warmer climate

More extreme rainfall

Decreased snow cover duration



River flow

Earlier spring flow,
reduced flow in summer



Decreased ice surface albedo (reflection)

Forest fire soot and pollution

Decreased vegetation

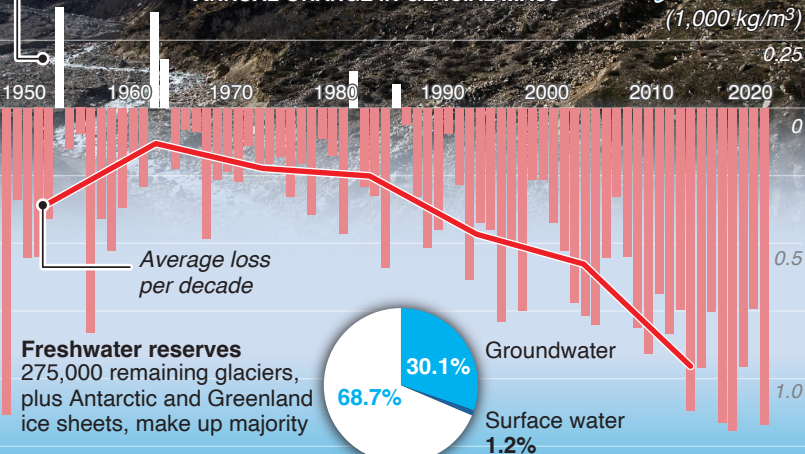
Permafrost thaw

Erosion

Sediment loads
affect water resources

9,000
gigatons
lost since 1975
– equivalent to
25m thick
Germany-sized
block of ice

ANNUAL CHANGE IN GLACIAL MASS



Each 1mm of sea level rise exposes 300,000 people to annual flooding



Since 2000, global sea level has risen by 18mm

10,000 people