Greenland ice cap loses enough water in 20 years to cover US: study
1 February 2022

Greenland's immense ice sheet has lost enough ice in the past 20 years to submerge the entire United States in half a metre of water, according to data released this week by Danish researchers.

The climate is warming faster in the Arctic than anywhere else on the planet and melting ice from Greenland is now the main factor in the rise in the Earth's oceans, according to NASA.

Since measurements began in 2002, the Greenland ice sheet has lost about 4,700 billion tonnes of ice, said Polar Portal, a joint project involving several Danish Arctic research institutes.

This represents 4,700 cubic kilometres of melted water—"enough to cover the entire US by half a meter"—and has contributed 1.2 centimetres to sea level rise, the Arctic monitoring website added.

Polar Portal's findings are based on satellite imagery from the US-German GRACE programme (Gravity Recovery and Climate Experiment), which showed the ice melt to be most severe near the coasts of the Arctic territory, at the edge of the ice sheet.

In these peripheral zones, "independent observations also indicate that the ice is thinning, that the glacier fronts are retreating in fjords and on land, and that there is a greater degree of melting from the surface of the ice", the website said.

The west coast of Greenland is particularly affected, according to the data.

Climate change is particularly alarming in the
Arctic, which scientists say is warming at a rate three to four times the global average.

According to a study published by NASA in late January, the accelerated melting near Greenland's coasts can be explained by the warming of the Arctic Ocean.

The phenomenon “is melting Greenland's glaciers at least as much as warm air is melting them from above”.

Glacier fronts are retreating in fjords and on land.

Melting ice from Greenland is currently the main factor in the rise in the Earth's oceans and the territory's glaciers are now retreating six to seven times faster than they were 25 years ago, the US agency added.

According to climate scientists, the Greenland ice sheet contains enough water to raise the oceans by more than seven metres, and the ice sheet in Antarctica contains enough for a rise of almost 50 metres.

Arctic sea ice cover, although its melting has no effect on sea levels, has also shrunk considerably, losing almost 13 percent of its average surface area every 10 years.

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APA citation: Greenland ice cap loses enough water in 20 years to cover US: study (2022, February 1)