# How ocean ice and land ice affect sea level?

### Explanatory video transcript

*(0:12)* On our planet, we have two polar regions: In the North the Arctic, and in the South the Antarctic.

*(0:23)* The Arctic is an ocean surrounded by land.

*(0:28)* On the other side of the world, the Antarctic is a continent surrounded by the ocean.

*(0:35)* So, the Arctic has polar bears, but no Penguins – and the Antarctic has Penguins, but no polar bears.

*(0:45)* At the North Pole and at the South Pole, we have plenty of water in the solid state.

*(0:51)* When this water melts, will it increase the level of sea water in the same way? Let's check.

*(1:07)* We can observe that in the container representing the South Pole, where the ice lies on the ground, the water level has risen significantly.

*(1:19)* However, in the container that represents the North Pole, where the mass of ice is in the water, the water level has practically not changed.

*(1:32)* Thus, melting in the Arctic leads to a very small rise in sea level, as the volume of water that the ice displaces in the water is practically equal to the volume that have melted water will occupy.

*(1:47)* So how can we help stop the sea level from getting higher?

*(1:53)* Keep exploring, keep asking questions and keep being curious about the world around you.

*(1:59)* This could be the next investigation – don't forget that it's important for all of us to learn about these changes and take care of our planet.