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Melting Ice and Sea Level Change

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STEM

Polar Connections

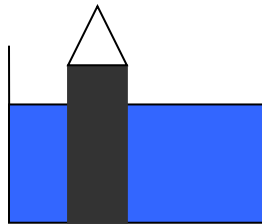


Melting Ice and Sea Level Changes

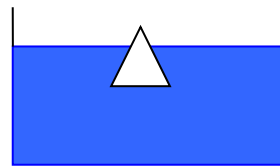
Global warming can melt snow or ice on Greenland, Antarctica, and other land areas. It can also melt floating ice in the Arctic Ocean. How do the two cases compare in changing sea levels?

We have two containers partially filled with water. One has a coffee can and an ice mass on top; the other has a similar ice mass in the water. We mark the initial water levels on the side and observe how the levels change with time. We will use a heat lamp to accelerate the process, but we could just have waited for the melting to occur without an extra heat source.

Make your prediction for the results of this experiment.



“Greenland”

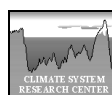


“Arctic Ocean”

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Arctic Ocean
Ice

Greenland Ice Cap

Arctic Ocean Ice



Greenland Ice Cap

