

Antarctica's doomsday glacier explored

THWAITES GLACIER

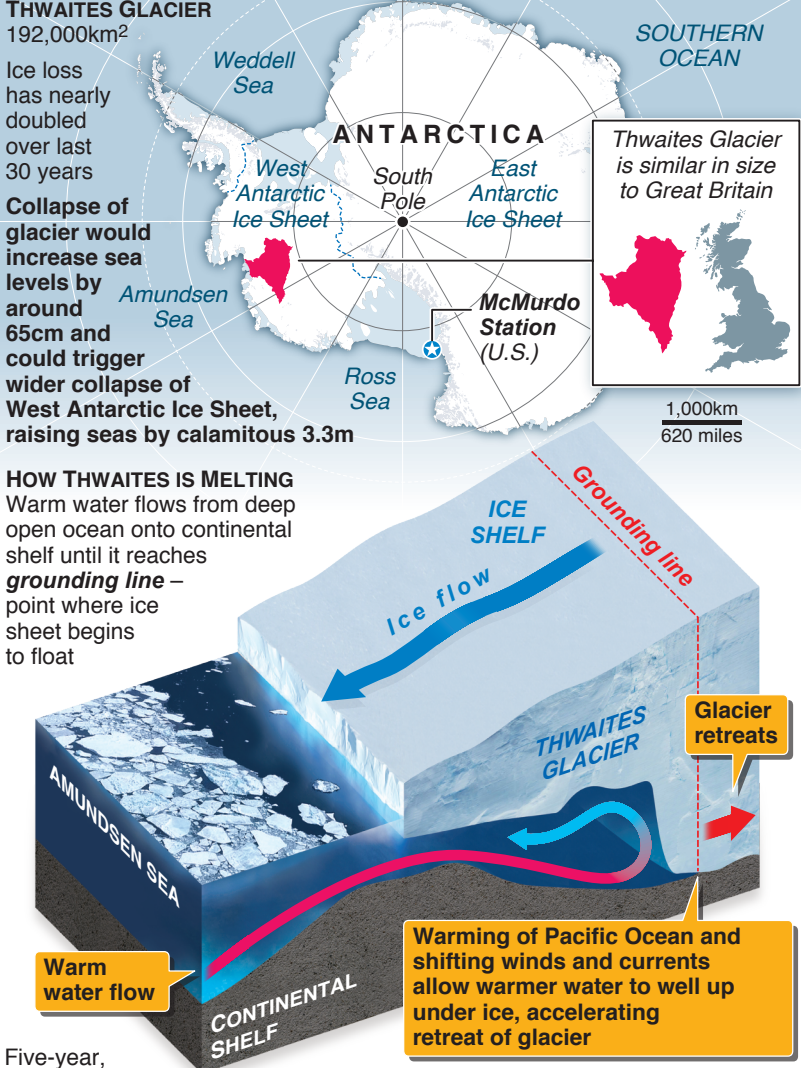
192,000km²

Ice loss has nearly doubled over last 30 years

Collapse of glacier would increase sea levels by around 65cm and could trigger wider collapse of West Antarctic Ice Sheet, raising seas by calamitous 3.3m

HOW THWAITES IS MELTING

Warm water flows from deep open ocean onto continental shelf until it reaches **grounding line** – point where ice sheet begins to float



Five-year, \$50m international effort underway to understand why glacier is changing so rapidly

Iceref: Robot submarine fed through borehole drilled through glacier. It carries high definition cameras, sonar, and instruments for monitoring water flow, salinity, oxygen and temperature



3.5 metres

Sources: thwaitesglacier.org, International Thwaites Glacier Collaboration, British Antarctic Survey

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