

Thwaites Glacier

The International Thwaites Glacier Collaboration



The International Thwaites Glacier Collaborative (ITGC)

is a large group of scientists using multiple methods and instruments to study this vulnerable section of the West Antarctic Ice Sheet. Watch this video gathering information and then as a class talk using the '**Class Discussion**' AND '**Explore More!**' using Thwaites-Explorer.org

Note: Anna's talk is ~30 minutes including Q&A.



Talk Title: Understanding Thwaites Glacier

Scientist Presenter: Dr. Anna Crawford, University of St. Andrews from the **ITGC Project:** DOMINOS

Consider! Previously a field-work scientist Anna is now a modeler. How do you think her field-work experience might help her in her current modeling work?

Instabilities: Anna mentioned two types of ice instabilities found in Antarctica, **Maine Ice Sheet Instability** & **Marine Ice Cliff Instability**. Pick one and explain how it works.

I Learned! List 3 things you learned about modeling from this talk: _____

Hands Up! What questions did this video raise or what do you want to learn more about after watching this video?

Tough Questions! Anna was asked some difficult questions at the end. Which did you think was the more interesting?

Who me? Would you consider this as your career? Why or why not?

Class Discussion:

Start by comparing your responses. List all of the things people learned on the board or a digital share space like a jamboard.

- (1) As a group discuss if there are certain items that are the MOST important take-aways from the talk?
 - (2) In what ways do people think Anna's field experience would help her as a modeler?
 - (3) Compare your descriptions of the different types of ice instabilities in Antarctica. Decide on the best ones.
 - (4) What tough questions were asked that interested you?
 - (5) Who wants to do this type of work & why?
 - (6) Share some of the questions you had. As a class can you answer any of these? If not, you can submit your question to the **ITGC Ask A Scientist** team of experts through December 10th, 2021!
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