



## New study reveals Doomsday glacier is even more vulnerable than previously believed

### Description

Antarctica's Thwaites Glacier, also known as the "Doomsday Glacier," is facing a greater threat from warm ocean waters than previously thought, a new study reveals. The potential collapse of this glacier could result in a significant rise in global sea levels, with estimates suggesting a rise of up to two feet if it were to melt. The study, published recently by a team of scientists, highlights the alarming evidence of increased melting due to warm seawater flowing beneath the glacier.

Lead researcher Eric Rignot from the University of California explains that the water is able to penetrate much further beneath the ice than initially believed, causing concern about the speed of the glacier's deterioration. Furthermore, Rignot's team previously uncovered that Antarctica is melting at a rate six times faster than in the 1980s.

The results of this study, published in the Proceedings of the National Academy of Sciences, emphasize the urgency of addressing the accelerated melting of the Thwaites Glacier. While the collapse may take hundreds or even thousands of years, the potential retreat of the ice shelf could have irreversible consequences for coastal communities worldwide.

Christine Dow of the University of Waterloo stresses the importance of recognizing the rapid changes occurring in the glacier, as it holds the equivalent of two feet of potential sea-level rise. With the use of high-resolution satellite radar data, Rignot and his team have detected the warm water's impact on the glacier, indicating a faster-than-predicted melt rate.

Experts warn that the Thwaites Glacier's instability poses a severe threat, with previous studies suggesting the possibility of a collapse within the next few years. As one of the world's fastest-changing and most unstable glaciers, the Thwaites Glacier serves as a crucial indicator of the rapidly evolving impacts of climate change.

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## Vocabulary List:

1. **Collapse** // (noun/verb): Complete failure and ruin.
2. **Accelerated** // (adjective): Made faster or quicker.
3. **Penetrate** // (verb): To pass into or through.
4. **Deterioration** // (noun): The process of becoming progressively worse.
5. **Retreat** // (verb/noun): The act of moving back or withdrawing.
6. **Instability** // (noun): Lack of stability tendency to change.

## Vocabulary quizzes

**Multiple Choice ( Select the Correct answer for each question. )**

1. What is a temporary dark and relatively cool region on the Sun?  
Option: Aurora  
Option: Collide  
Option: Ionized  
Option: Sunspot
2. What process causes an atom or molecule to absorb energy?  
Option: Al  
Option: Keynote  
Option: Excitation  
Option: Gemini
3. What positive emotion is characterized by eagerness and excitement?



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- Option: Integration  
Option: Gearing up  
Option: Enthusiasm  
Option: Retreat
4. What word describes the process of something becoming progressively worse?  
Option: Collapse  
Option: Accelerated  
Option: Deterioration  
Option: Collapse
5. What is the underlying assumption or proposition in a logical argument?  
Option: Penetrate  
Option: Advertising  
Option: Premise  
Option: Defacement
6. What term refers to someone who has joined the armed forces?  
Option: Unveiling  
Option: Enlisted  
Option: Collapse  
Option: Instability
7. What do you call a group of stars forming a recognizable pattern?  
Option: Droneship  
Option: Collapse  
Option: Constellation  
Option: Trajectory
8. What path does an object in motion follow through space?  
Option: Trajectory  
Option: Gemini  
Option: Excitation  
Option: Aurora
9. What is the sudden failure or breakdown of something?  
Option: Liftoff  
Option: Collapse  
Option: Premise  
Option: Integration
10. What term describes an increase in the rate or speed of something?  
Option: Accelerated



- Option: Retreat
- Option: Unveiling
- Option: Sunspot

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. Electrically charged particles are known as \_\_\_\_\_ .
12. The \_\_\_\_\_ of the new product generated a lot of interest.
13. The zodiac sign \_\_\_\_\_ is represented by twins.
14. The moment of \_\_\_\_\_ marked the beginning of the rocket's journey.
15. The political situation in the region is characterized by \_\_\_\_\_ and uncertainty.
16. The soldiers had to \_\_\_\_\_ due to the approaching enemy forces.
17. The \_\_\_\_\_ of various departments into a single unit increased efficiency.
18. The company invested heavily in \_\_\_\_\_ to promote its new product.
19. The CEO delivered the \_\_\_\_\_ address at the conference.
20. The \_\_\_\_\_ of the building shocked the community.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. In the lab the scientists induced in the atoms to observe their behavior.
22. The two cars are on a collision course and are expected to at the intersection.
23. or artificial intelligence is being incorporated into many aspects of technology.
24. Their for the project inspired others to join and contribute.
25. The SpaceX rocket successfully landed on the in the ocean.
26. The new marketing strategy aims to new markets and increase sales.
27. He in the military to serve his country.



28. The scientist calculated the of the comet through the solar system.

29. The discovery of ancient artifacts was a that shed light on history.

30. The plot of the movie was full of twists and turns creating an aura of .

## Answer

**Multiple Choice:** 1. Sunspot 2. Excitation 3. Enthusiasm 4. Deterioration 5. Premise 6. Enlisted 7. Constellation 8. Trajectory 9. Collapse 10. Accelerated

**Gap-Fill:** 11. Ionized 12. Unveiling 13. Gemini 14. Liftoff 15. Instability 16. Retreat 17. Integration 18. Advertising 19. Keynote 20. Collapse

**Matching sentence:** 1. Excitation 2. Collide 3. AI 4. Enthusiasm 5. Droneship 6. Penetrate 7. Enlisted 8. Trajectory 9. Revelation 10. Intrigue

## CATEGORY

1. Sci/Tech - LEVEL5

### Date Created

2024/05/22

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