



Antarctica's Melting Glacier: Global Impact on Millions

Description

Scientists began an expedition to Antarctica to study Thwaites Glacier. This glacier is melting quickly. If it completely breaks apart, global sea levels could rise by two feet. This change could affect millions of people worldwide.

The maps show cities at risk from this rising water. Many low-lying areas are in danger. As Thwaites Glacier melts, other glaciers nearby could also break apart and add more water to the oceans. This would make coastal cities even more vulnerable.

Cities in Asia face the biggest risks. Fast-growing areas are at high danger. For example, Shanghai has many people living below sea level. If sea levels rise, more than four million people could be affected.

Protecting cities from flooding will cost a lot of money. For New York City, plans could cost over \$52 billion. Some cities may not be able to afford these protections. Places like Bangladesh are struggling with rising tides and need help to prepare for future flooding.

Comprehension Questions

Multiple Choice

1. What could happen if Thwaites Glacier completely breaks apart?

- Option: Global sea levels could rise by two feet
- Option: Global temperatures will increase significantly
- Option: The Antarctic ecosystem will flourish
- Option: None of the above

2. Which region faces the biggest risks from rising sea levels?

- Option: Europe
- Option: Africa
- Option: Asia
- Option: North America

3. How many people in Shanghai could be affected if sea levels rise?

- Option: Over one million



- Option: Over two million
- Option: Over three million
- Option: Over four million

4. What is the estimated cost to protect New York City from flooding?

- Option: \$10 billion
- Option: \$26 billion
- Option: \$52 billion
- Option: \$100 billion

5. What are low-lying areas at risk from?

- Option: Rising water levels
- Option: Decreased population
- Option: Improved infrastructure
- Option: Increased tourism

6. What other glaciers could break apart as Thwaites Glacier melts?

- Option: Glaciers further inland
- Option: Nearby glaciers
- Option: Glaciers in the Arctic
- Option: None

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True-False

- 7. Thwaites Glacier is melting slowly.
- 8. Only cities in North America are affected by rising sea levels.
- 9. Protecting cities from flooding will be expensive.
- 10. Bangladesh is currently well-prepared for rising tide challenges.
- 11. More than four million people in Shanghai could be at risk if sea levels rise.
- 12. Coastal cities will become less vulnerable as glaciers melt.

Gap-Fill



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13. If Thwaites Glacier breaks apart, global sea levels could rise by _____ feet.
14. Cities in _____ face the biggest risks from rising sea levels.
15. Shanghai has many people living _____ sea level.
16. Plans to protect New York City from flooding could cost over _____ billion.
17. Many low-lying areas are in _____ from rising water.
18. Bangladesh is struggling with rising _____ and needs help.

Answer

Multiple Choice: 1. Global sea levels could rise by two feet 2. Asia 3. Over four million 4. \$52 billion 5. Rising water levels 6. Nearby glaciers

True-False: 7. False 8. False 9. True 10. False 11. True 12. False

Gap-Fill: 13. two 14. Asia 15. below 16. 52 17. danger 18. tides

CATEGORY

1. Sci/Tech - LEVEL1

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