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# 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.

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## Vocabulary List:

1. **expedition** //,ɛkspə'dɪʃən// (noun): a trip taken for a special purpose
2. **glacier** //ˈgleɪʃər// (noun): a large mass of ice that moves slowly
3. **affect** //ə'fekt// (verb): to produce a change in something
4. **vulnerable** //ˈvʌlnərəbəl// (adjective): likely to be harmed or damaged
5. **coastal** //ˈkoʊstəl// (adjective): near or next to the sea
6. **afford** //ə'fɔrd// (verb): have enough money to pay for

## 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



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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

### 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

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

### Vocabulary quizzes

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

1. What term is used to describe a ship used for travel or work at sea?



- Option: Vessel
- Option: Tram
- Option: Carriage
- Option: Plane

2. Which term refers to a community of living organisms and their physical environment interacting as a system?

- Option: Biome
- Option: Ecosystem
- Option: Habitat
- Option: Niche

3. What do we call a group of organisms that can interbreed and produce fertile offspring?

- Option: Species
- Option: Genus
- Option: Family
- Option: Order

4. What is typically formed from coral and serves as a habitat for many marine species?

- Option: Delta
- Option: Reef
- Option: Estuary
- Option: Lake

5. What type of marine animal is often found attached to rocks and can host clownfish?

- Option: Sea Urchins
- Option: Jellyfish
- Option: Anemones
- Option: Sponges

6. What term describes the process of increasing in size or scope?

- Option: Reduction
- Option: Contraction
- Option: Expansion
- Option: Decline

7. Which type of view or observation is achieved from the air?

- Option: Ground
- Option: Aerial
- Option: Underwater
- Option: Surface

8. What do we call individuals who conduct investigations to discover or revise facts?



- Option: Students
- Option: Researchers
- Option: Educators
- Option: Administrators

9. What is a large mass of ice that moves slowly over land called?

- Option: Iceberg
- Option: Glacier
- Option: Snowfield
- Option: Fjord

10. What term describes a state of being open to harm or damage?

- Option: Resilient
- Option: Vulnerable
- Option: Protected
- Option: Robust

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

11. The \_\_\_\_\_ ecosystem is crucial for supporting various marine species.

12. Many marine conservation initiatives aim to ensure that we can \_\_\_\_\_ the protection of vulnerable species.

13. The \_\_\_\_\_ of the research vessel was necessary to prepare for the upcoming expedition.

14. The organization's press release announced the \_\_\_\_\_ of a new marine exploration project.

15. The team set up \_\_\_\_\_ accommodations while conducting research near the glacier.

16. They are \_\_\_\_\_ outdated equipment to enhance the research process.

17. The night sky was filled with \_\_\_\_\_ sprites dancing across the atmosphere.

18. Many \_\_\_\_\_ species visit the coastal area during migration seasons.



19. The Earth's \_\_\_\_\_ plays a crucial role in regulating temperature and supporting life.
20. High levels of ultraviolet \_\_\_\_\_ can affect both marine and terrestrial life.

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

21. The underwater seep is critical for nutrient cycling in the marine ecosystem.
22. The press is essential for disseminating information about scientific discoveries.
23. The new vessel has advanced features that enhance its operational capabilities.
24. The research team had to wait in a queue before boarding the vessel for the expedition.
25. They planned an expedition to study the effects of climate change on coastal ecosystems.
26. Construction of the new research facility is underway near the coastal area.
27. The glacier melts are impacting sea levels and coastal environments.
28. Many species in the ocean are classified as vulnerable due to climate change.
29. The environment is heavily influenced by both natural and human activities.
30. The luminous sprites observed during the expedition were stunning and ethereal.

**Answer**

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**Multiple Choice:** 1. Vessel 2. Ecosystem 3. Species 4. Reef 5. Anemones 6. Expansion 7. Aerial 8. Researchers 9. Glacier 10. Vulnerable

**Gap-Fill:** 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

**Matching sentence:** 1. seep 2. press 3. features 4. queue 5. expedition 6. construction 7. glacier 8. vulnerable 9. environment 10. sprites

## CATEGORY

1. Sci/Tech - LEVEL1

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