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# Submarine Vanishes Without Trace as Scientists Plan Return

## Description

A new robotic submarine will explore under Antarctica's glaciers. This is where another submarine called Ran has been lost. Ran disappeared in January 2024 while it was working. It collected many important data about the melting ice there.

Ran was operated by the University of Gothenburg. The new submarine, called Ran II, will be ready for use in winter 2026/2027. It will have better tools to handle the dangerous conditions under the ice.

For six years, Ran provided scientists with important information. It took pictures and mapped areas beneath glaciers like the Thwaites Glacier. This glacier is crucial for understanding sea level rise.

Ran showed that the ice under glaciers is not flat. There are hills, valleys, and even areas that look like sand dunes. These shapes affect how quickly the ice melts.

Ran's work is essential for scientists to study melting ice. The new submarine will continue this important research to understand how fast the ice is melting and its impact on sea levels.

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## Vocabulary List:

1. **robotic** //rəʊˈbɒtɪk// (adjective): made or controlled by robots or machines
2. **submarine** //ˌsʌbməˈrɪn// (noun): a vehicle that travels deep under the water
3. **disappeared** //ˌdɪsəˈpɪəd// (verb): was no longer seen or could not be found
4. **crucial** //ˈkruːʃəl// (adjective): very important and necessary for a correct result
5. **mapped** //mæpt// (verb): drew a map showing the shape of an area
6. **impact** //ˈɪmpækt// (noun): a strong effect that changes something

## Comprehension Questions

### Multiple Choice

1. What is the name of the new robotic submarine?

Option: Ran

Option: Ran II



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- Option: Antarctica Explorer
  - Option: Glacier Hunter

2. When did the original submarine Ran disappear?

- Option: January 2024
- Option: June 2025
- Option: March 2023
- Option: December 2024

3. Which university operated the original submarine Ran?

- Option: University of Gothenburg
- Option: University of Stockholm
- Option: University of Oslo
- Option: University of Lund

4. What is the time frame for when Ran II will be ready for use?

- Option: 2023/2024
- Option: 2025/2026
- Option: 2026/2027
- Option: 2028/2029

5. What glacier is specifically mentioned as being critical for understanding sea level rise?

- Option: Thwaites Glacier
- Option: Greenland Glacier
- Option: Antarctic Peninsula
- Option: Ross Glacier

6. What unique characteristics did Ran discover about the ice under glaciers?

- Option: It is flat
- Option: It has hills and valleys
- Option: It is always thick
- Option: It is colorless

### **True-False**

7. Ran II is expected to be operational in winter 2025/2026.

8. The original submarine Ran provided data for six years.



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9. The submarine Ran was lost in Antarctica's glaciers.
  10. Ran showed that the ice under glaciers is completely flat.
  11. The research conducted by Ran is important for scientists studying ice melting.
  12. Ran II will have fewer tools than its predecessor, Ran.

### Gap-Fill

13. Ran collected important data about the melting ice under Antarctica's glaciers from \_\_\_\_\_.
14. The new submarine Ran II will be ready for use in winter 2026/ \_\_\_\_\_.
15. Ran provided essential information for \_\_\_\_\_ years.
16. Thwaites Glacier is crucial for understanding sea level \_\_\_\_\_.
17. There are hills, valleys, and areas that look like sand dunes under the ice, affecting how quickly the ice \_\_\_\_\_.
18. The new robotic submarine will continue the important research to understand how fast the ice is melting and its impact on sea \_\_\_\_\_.

### Answer

**Multiple Choice:** 1. Ran II 2. January 2024 3. University of Gothenburg 4. 2026/2027 5. Thwaites Glacier  
6. It has hills and valleys

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

**Gap-Fill:** 13. January 2024 14. 2027 15. six 16. rise 17. melts 18. levels

### Vocabulary quizzes



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

1. What type of vessel is designed to operate underwater?  
Option: Aircraft  
Option: Submarine  
Option: Battleship  
Option: Hovercraft
2. What type of reactor uses nuclear reactions to generate energy?  
Option: Solar  
Option: Geothermal  
Option: Nuclear  
Option: Hydroelectric
3. What state of matter is found in certain types of thrusters for spacecraft?  
Option: Solid  
Option: Liquid  
Option: Gas  
Option: Plasma
4. What is often used to improve the performance of a product based on user responses?  
Option: Research  
Option: Feedback  
Option: Advertising  
Option: Testing
5. Which cosmetic procedure is commonly used to remove unwanted fat?  
Option: Tummy tuck  
Option: Liposuction  
Option: Facelift  
Option: Botox
6. What can you do to personalize your gameplay experience?  
Option: Customize  
Option: Standardize  
Option: Regulate  
Option: Limit
7. Which routine is important for maintaining healthy skin?  
Option: Budgeting  
Option: Skincare  
Option: Exercise



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Option: Reading

8. What type of effects enhance the imagery of a film or video game?

- Option: Auditory
- Option: Visual
- Option: Tactile
- Option: Olfactory

9. What stage follows the planning phase in a project lifecycle?

- Option: Execution
- Option: Testing
- Option: Deployment
- Option: Development

10. What do people often seek to reduce through cosmetic procedures?

- Option: Scars
- Option: Blemishes
- Option: Wrinkles
- Option: Freckles

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

11. The \_\_\_\_\_ features of the game were its stunning graphics and captivating story.

12. The research had a significant \_\_\_\_\_ on public policy regarding environmental issues.

13. Many people have \_\_\_\_\_ about their choices as they age.

14. It is \_\_\_\_\_ to follow the instructions carefully during the experiment.

15. The scientists \_\_\_\_\_ the ocean floor to find new underwater features.

16. The \_\_\_\_\_ improvement of technology leads to innovative solutions.

17. We welcome \_\_\_\_\_ from the community to help us improve our services.

18. The project \_\_\_\_\_ includes several important deadlines and milestones.

19. The \_\_\_\_\_ arm was used to assist patients in rehabilitation exercises.



20. The spacecraft was equipped with advanced \_\_\_\_\_ for better maneuverability.

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

21. The spacecraft successfully returned from its mission with valuable data.
22. Injectables are often used in cosmetic procedures to enhance facial features.
23. The performance of the new game was praised by both critics and players alike.
24. The special effects in the movie created an immersive experience for the audience.
25. The magician's illusion made the rabbit appear to have disappeared into thin air.
26. Robotic technologies are transforming industries by increasing efficiency and safety.
27. The development of new software is crucial for staying competitive in the market.
28. The submarine was designed to withstand extreme underwater pressures.
29. Nuclear energy is a powerful source of electricity used in many countries.
30. A consistent skincare routine is essential for maintaining healthy skin.

**Answer**

**Multiple Choice:** 1. Submarine 2. Nuclear 3. Plasma 4. Feedback 5. Liposuction 6. Customize 7. Skincare 8. Visual 9. Development 10. Wrinkles

**Gap-Fill:** 11. prominent 12. impact 13. regrets 14. crucial 15. mapped 16. continuous 17. suggestions 18. schedule 19. robotic 20. thrusters

**Matching sentence:** 1. spacecraft 2. injectables 3. performance 4. effects 5. disappeared 6. robotic 7. development 8. submarine 9. nuclear 10. skincare

**CATEGORY**

1. Sci/Tech - LEVEL1

**POST TAG**

1. disappears
2. ESL learning
3. esl news
4. Level 1



5. scientists
6. submarine

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**Author**

aimeeyoung99

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