

Southern Ocean Quiz Answer Key PDF

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Which current is the most significant in the Southern Ocean?

- A. Gulf Stream
- B. Kuroshio Current
- C. Antarctic Circumpolar Current ✓**
- D. Humboldt Current

What ocean surrounds Antarctica?

- A. Arctic Ocean
- B. Atlantic Ocean
- C. Southern Ocean ✓**
- D. Indian Ocean

What is the primary role of the Southern Ocean in global climate?

- A. Oil production
- B. Climate regulation ✓**
- C. Tourism
- D. Agriculture

At what latitude is the boundary of the Southern Ocean generally defined?

- A. 30° S
- B. 45° S
- C. 60° S ✓**
- D. 75° S

What phenomenon is commonly observed in the Southern Ocean region?

- A. Northern Lights
- B. tsumanis
- C. Aurora Australis ✓**
- D. Monsoons

Outline the historical significance of exploration in the Southern Ocean.

The Southern Ocean was crucial for early 19th-century whaling and sealing industries, which spurred further exploration and mapping of the region, leading to significant discoveries in marine biology and oceanography.

What are the main challenges faced by the Southern Ocean due to climate change?

The main challenges faced by the Southern Ocean due to climate change include rising sea temperatures, increased ocean acidification, and alterations in sea ice patterns.

Discuss the ecological importance of the Southern Ocean's marine life.

The ecological importance of the Southern Ocean's marine life includes its role in regulating the Earth's climate, supporting a unique food web, and providing habitat for various species, including krill, which are vital for the survival of many marine animals.

Describe the role of the Southern Ocean in global carbon cycling and climate regulation.

The Southern Ocean absorbs approximately 40% of the carbon dioxide that is taken up by the world's oceans, significantly impacting global carbon cycling and helping to regulate the Earth's climate.

Which of the following oceans connect with the Southern Ocean?

- A. Atlantic Ocean ✓**
- B. Indian Ocean ✓**
- C. Pacific Ocean ✓**
- D. Arctic Ocean

Which explorers are known for navigating the Southern Ocean?

- A. James Cook ✓**
- B. Roald Amundsen ✓**
- C. Ferdinand Magellan
- D. Ernest Shackleton ✓**

Which species are native to the Southern Ocean?

- A. Antarctic Krill ✓**
- B. Emperor Penguin ✓**
- C. Blue Whale ✓**
- D. Great White Shark

Explain the significance of the Antarctic Circumpolar Current in the Southern Ocean.

The Antarctic Circumpolar Current is significant because it drives global ocean circulation, connects major ocean basins, and influences climate and marine ecosystems in the Southern Ocean.

How do international treaties and agreements contribute to the conservation of the Southern Ocean?

International treaties and agreements contribute to the conservation of the Southern Ocean by providing a structured approach to managing marine resources, protecting biodiversity, and ensuring sustainable practices among member nations.

What human activities are prevalent in the Southern Ocean?

- A. Fishing ✓**
- B. Oil drilling
- C. Scientific research ✓**
- D. Commercial shipping

Which organization officially recognizes the Southern Ocean?

- A. United Nations
- B. International Hydrographic Organization ✓**
- C. World Health Organization

D. World Trade Organization

What are some of the key features of the Southern Ocean's climate?

- A. Warm temperatures
- B. Cold temperatures ✓**
- C. Strong westerly winds ✓**
- D. High humidity

Which international treaty is aimed at protecting the Southern Ocean?

- A. Kyoto Protocol
- B. Antarctic Treaty System ✓**
- C. Paris Agreement
- D. Montreal Protocol

What are the impacts of climate change on the Southern Ocean?

- A. Increased ice cover
- B. Melting ice caps ✓**
- C. Changes in marine biodiversity ✓**
- D. Rising sea levels ✓**

Which of the following animals is commonly found in the Southern Ocean?

- A. Polar Bear
- B. Penguin ✓**
- C. Walrus
- D. Sea Otter