

Global Marine Biology: Geographical Insights

Marine Biology · Answer Key · 8 Questions

1. Which oceanic region is characterized by the highest concentration of endemic fish species due to its extreme isolation and unique geological history?

- A) The Arctic Ocean
- B) The Mediterranean Sea
- C) The Hawaiian Archipelago**
- D) The Southern Ocean

2. The Sargasso Sea, a unique oceanic gyre, is notable for its distinct ecosystem. Which of the following defines its primary characteristic?

- A) Its extremely low salinity due to glacial melt
- B) Its abundance of floating Sargassum seaweed**
- C) Its consistent upwelling of nutrient-rich deep water
- D) Its vast underwater volcanic activity

3. The 'Lost City' hydrothermal field, a significant site for deep-sea research, is located off the coast of which continent?

- A) Antarctica
- B) South America
- C) Africa**
- D) Australia

4. Which marine biome, found predominantly in tropical and subtropical regions, exhibits the highest biodiversity per unit area globally?

- A) Kelp forests
- B) Mangrove forests
- C) Coral reefs**
- D) Seagrass meadows

5. The Mariana Trench, the deepest part of the world's oceans, is located in which ocean basin?

- A) Atlantic Ocean
- B) Indian Ocean
- C) Pacific Ocean**
- D) Arctic Ocean

6. The Benguela Current, known for its high biological productivity and support of extensive fisheries, flows along the western coast of which continent?

- A) North America
- B) South America
- C) Africa**
- D) Asia

7. Which geographical feature is largely responsible for the formation of the unique cold-water coral reefs found in parts of the North Atlantic, such as *Lophelia pertusa* reefs?

- A) Submarine canyons and seamounts**
- B) Continental shelf edge
- C) Tectonic plate boundaries
- D) Areas of intense glacial scouring

8. The 'Coral Triangle', a region with unparalleled marine biodiversity, encompasses waters near which group of countries?

- A) Mexico, Costa Rica, and Ecuador
- B) Madagascar, Mozambique, and South Africa
- C) Indonesia, Philippines, and Malaysia**
- D) Japan, South Korea, and China