

AP ENVIRONMENTAL SCIENCE
STUDY GUIDE – CHAPTER 8: Aquatic Biodiversity

Key Questions and Concepts

1. What is the general nature of aquatic systems? (8-1)
2. Why are marine aquatic systems important? (8-2)
3. How have human activities affected marine ecosystems? (8-3)
4. Why are freshwater ecosystems important? (8-4)
5. How have human activities affected freshwater ecosystems? (8-5)

Review Questions

1. Review the Key Questions and Concepts for this chapter on page 163. What is a coral reef and why should we care about coral reefs? What is coral bleaching?
2. What percentage of the earth's surface is covered with water? What is an aquatic life zone? Distinguish between a saltwater (marine) life zone and a freshwater life zone and give two examples of each. What major types of organisms live in the top, middle, and bottom layers of aquatic life zones? Define plankton and describe three types of plankton. Distinguish among nekton, benthos, and decomposers and give an example of each. List five factors that determine the types and numbers of organisms found in the three layers of aquatic life zones? What is turbidity, and how does it occur? Describe one of its harmful impacts.
3. What major ecological and economic services are provided by marine systems? What are the three major life zones in an ocean? Distinguish between the coastal zone and the open sea. Distinguish between an estuary and a coastal wetland and explain why each have high net primary productivity. Describe some of the interactions among species in a coastal marsh ecosystem. Explain the importance of sea grass beds. What is a mangrove forest and what is its ecological and economic importance? What is the intertidal zone? Distinguish between rocky and sandy shores and describe some of the organisms often found on each type of shoreline.
4. Explain the importance of coral reefs and some of the interactions among the species in such systems. Describe the three major zones in the open sea. What human activities pose major threats to marine systems and to coral reefs?
5. Explain why the Chesapeake Bay is an estuary in trouble. What is being done about some of its problems?
6. What major ecological and economic services do fresh-water systems provide? What is a lake? What four zones are found in deep lakes? Distinguish among oligotrophic and eutrophic, and mesotrophic lakes. What is cultural eutrophication?
7. Define surface water, runoff, and watershed (drainage basin). Describe the three zones that a stream passes through as it flows from mountains in the sea. Describe the relationships between dams, deltas, wetlands, hurricanes, and flooding in New Orleans, Louisiana.
8. Give three examples of inland wetlands and explain the ecological and economic importance of such wetlands.
9. What are four ways in which human activities are disrupting and degrading freshwater systems? Describe inland wetlands in the United States in terms of the area of wetlands lost and the resulting loss of ecological and economic services.
10. What are this chapter's *three big ideas*? What is the relationship between coral reefs and the three principles of sustainability?

Critical Thinking

1. What are the three steps governments and industries could take to protect the remaining coral reefs from harmful activities? What are three ways in which individuals can help to protect those reefs?
2. Suppose you are a defense attorney arguing in court for protecting a coral reef from harmful human activities. Give you three most important arguments for the defense of the ecosystem.
3. Why do aquatic plants such as phytoplankton tend to be larger and have more specialized structures such as stems and leaves for growth?
4. Why are some aquatic animals, especially marine mammals such as whales, extremely large compared with terrestrial animals?
5. How would you respond to someone who proposes that we use the deep portions of the world's oceans to deposit or radioactive and other hazardous wastes because the deep oceans are vast and are located far away from human habitats? Give reasons for your response.
6. Suppose a developer builds a housing complex overlooking a coastal salt marsh and the result is pollution and degradation of the marsh. Describe the effects of such a development on the wildlife of the marsh, assuming at least one species is eliminated as a result.
7. How does a levee built on a river affect species such as deer and hawks living in a forest overlooking the river?
8. Suppose you have a friend who owns property that includes a freshwater wetland and the friend tells you he is planning to fill the wetland to make room for his lawn and garden. What would you say this friend?
9. Congratulations! You are in charge of the world. What are the three most important features of your plan to help sustain the earth's aquatic biodiversity?

Apes Chapter 18 Study Guide

**Michael Cole, Stephanie Stolarz-
Fantino, Sheila R. Cole, Cynthia
Lightfoot**

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