

4.5 Aquatic Ecosystems

Lesson Objectives

- Discuss the factors that affect aquatic ecosystems.
- Identify the major categories of freshwater ecosystems.
- Describe the importance of estuaries.
- Describe and compare the distinct ocean zones that make up marine ecosystems.

Lesson Summary

Conditions Underwater Aquatic ecosystems are determined mainly by the depth, flow, temperature, and amount of dissolved nutrients of the water.

- ▶ The photic zone is the sunlit upper layer of water where photosynthesis can occur.
- ▶ The aphotic zone is the dark lower layer where photosynthesis cannot occur.
- ▶ The benthic zone is found on the bottoms of lakes, streams, and oceans. The organisms that live on the floor of a body of water are called benthos.

Freshwater Ecosystems Freshwater ecosystems include flowing-water ecosystems, standing-water ecosystems, and freshwater wetlands. Plankton are common. They form the base of many aquatic food webs.

Estuaries Estuaries are wetlands formed where rivers meet the sea. They contain a mixture of fresh and salt water. Most of the food produced in estuaries enters food webs as tiny pieces of organic matter, or detritus.

Marine Ecosystems Marine ecosystems are found in the ocean.

- ▶ The intertidal zone is the shallowest and closest to land. It is exposed to the rise and fall of tides each day.
- ▶ The coastal ocean is the relatively shallow border of water that surrounds the continents.
- ▶ The open ocean begins at the continental shelf and extends outward. The open ocean can be divided into the photic zone and the aphotic zone.

Conditions Underwater

1. What are the four main factors that affect aquatic ecosystems?

2. What does the depth of the water determine?

3. What distinguishes the photic zone from the aphotic zone in an aquatic ecosystem?

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Table of Contents 54 Ecosystems Answer Guide

1. Understanding the eBook 54 Ecosystems Answer Guide
 - The Rise of Digital Reading 54 Ecosystems Answer Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 54 Ecosystems Answer Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 54 Ecosystems Answer Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 54 Ecosystems Answer Guide
 - Personalized Recommendations
 - 54 Ecosystems Answer Guide User Reviews and Ratings
 - 54 Ecosystems Answer Guide and Bestseller Lists

5. Accessing 54 Ecosystems Answer Guide Free and Paid eBooks
 - 54 Ecosystems Answer Guide Public Domain eBooks
 - 54 Ecosystems Answer Guide eBook Subscription Services
 - 54 Ecosystems Answer Guide Budget-Friendly Options
6. Navigating 54 Ecosystems Answer Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - 54 Ecosystems Answer Guide Compatibility with Devices
 - 54 Ecosystems Answer Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 54 Ecosystems Answer Guide
 - Highlighting and Note-Taking 54 Ecosystems Answer Guide
 - Interactive Elements 54 Ecosystems Answer Guide
8. Staying Engaged with 54 Ecosystems Answer Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 54 Ecosystems Answer Guide
9. Balancing eBooks and Physical Books 54 Ecosystems Answer Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 54 Ecosystems Answer Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 54 Ecosystems Answer Guide
 - Setting Reading Goals 54 Ecosystems Answer Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 54 Ecosystems Answer Guide
 - Fact-Checking eBook Content of 54 Ecosystems Answer Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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