

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?

4 3 Aquatic Ecosystems Answer Key

French Ensor Chadwick

4 3 Aquatic Ecosystems Answer Key:

Conservation: Waterway Habitat Resources: How Climate Change Can Affect Aquatic Ecosystems Gr. 5-8

George Graybill,2017-05-11 This is the chapter slice How Climate Change Can Affect Aquatic Ecosystems Gr 5 8 from the full lesson plan Conservation Waterway Habitat Resources Students will become aware of aquatic ecosystems facing severe change around the globe Our resource focuses on recognizing how climate change and human activities are affecting their delicate balances Become an ecologist and list factors in an aquatic ecosystem as biotic or abiotic Visit an aquatic ecosystem near your home and learn as much as you can through careful observations Find out why some aquatic organisms have a hard time adapting to climate change Explore the effects of human activity on aquatic ecosystems Spend some time at your local aquarium to be a part of the aquatic ecosystem Get a sense of what s to come as you look at the rate of extinction of marine species Find out what we can do to restore aquatic dead zones Written to Bloom s Taxonomy and STEAM initiatives additional hands on activities graphic organizers crossword word search comprehension quiz and answer key are also included

Oceans and Aquatic Ecosystems - Volume II Eric Wolanski,2009-10-20 Oceans and Aquatic Ecosystems theme is a component of Encyclopedia of Natural Resources Policy and Management in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The theme guides the reader through various pathways followed by surface water on earth It describes the dominant processes that govern how organisms interact with water and with each other and how they in turn can modify water properties This knowledge is important for humanity Indeed only by understanding our actions impacts upon water and the animals and plants living in it can we learn to exploit water marine and fresh water habitats and the living organisms without destroying the resources on which our livelihood and very survival depend The Theme on Oceans and Aquatic Ecosystems discusses matters of great relevance to our world such as Freshwater Wetland Resources and Biology Problems Restoration and Conservation of Lakes and Rivers Coastal Regions The Oceans and Seas Oceanic Islands These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Conservation: Waterway Habitat Resources: Predictions for Aquatic Ecosystems Gr. 5-8 George Graybill,2017-05-11 This is the chapter slice Predictions for Aquatic Ecosystems Gr 5 8 from the full lesson plan Conservation Waterway Habitat Resources Students will become aware of aquatic ecosystems facing severe change around the globe Our resource focuses on recognizing how climate change and human activities are affecting their delicate balances Become an ecologist and list factors in an aquatic ecosystem as biotic or abiotic Visit an aquatic ecosystem near your home and learn as much as you can through careful observations Find out why some aquatic organisms have a hard time adapting to climate change Explore the effects of human activity on aquatic ecosystems Spend some time at your local aquarium to be a part of the aquatic ecosystem Get a sense of what s to come as you look at the rate of extinction of

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1900+ MCQs with Explanatory Notes For GEOGRAPHY, ECOLOGY & ENVIRONMENT 2nd Edition Disha Experts,2019-04-01 The

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CALFED Bay-Delta Program

Programmatic EIS, Long-Term Comprehensive Plan to Restore Ecosystem Health and Improve Water Management, San Francisco Bay - Sacramento/San Joaquin River Bay-Delta D, Dsum; Program Goals and Objectives, Dapp1; No Action Alternative, 2000 Report on the Training Systems for the Navy and Mercantile Marine of England, and on the Naval Training System of France, Made to the Bureau of Equipment and Recruiting, U.S. Navy Department Sept., 1879 French Ensor Chadwick, 1880

American Plumbing Practice
Engineering Record, Building Record, and Sanitary Engineer, 1896 *Environment Abstracts Annual 1989* Bowker Editorial Staff, R R Bowker Publishing, Bowker, 1990

2005 Joint Assembly American Geophysical Union. Joint Assembly, 2005

Canadian Journal of Fisheries and Aquatic Sciences, 2012 **The Engineering Record, Building Record & the Sanitary Engineer**, 1891 **Engineering Record, Building Record and Sanitary Engineer**, 1886 **Selected Water Resources Abstracts**, 1991 **Water Quality Management for Coastal Aquaculture** Sukumar Bandyopadhyay, 2008

The book describes the fundamental aspects of water resources and water quality management and environmental problems related to aquaculture in the coastal areas. It addresses the surface and ground water resources and their characteristics in general and inherent in the coastal water environment and describes the coastal environment with ecological divisions and coastal regulation zones. Water resource use is highlighted mainly in coastal fisheries and aquaculture and also in multiple uses for agriculture, forestry, and waste disposal. Impacts of resource use on the coastal environment with potential and specific cases have been discussed. The book focuses on water quality aspects with the basic management issues such as physico-chemical, biophysical, and biological parameters and their interactions on the dynamics of the systems in a water body. On water quality management, included are the topics under pond water treatment for control and management of aquatic environment for culture practices and on farm effluent treatment for reduction of environmental impact in the surrounding water bodies. Related numerical problems have been given as examples in most of

the chapters as well as few sample questions for students work The content of the book extends our theoretical understanding of water resource and water quality management and also provides how to or practical advice for professionals in the aquaculture industry

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EPA Publications Bibliography , Renewable Resource Inventories for Monitoring Changes and Trends John F. Bell, Toby Atterbury, 1983 This conference was created to provide a foundation for developing and implementing inventories to monitor changes and trends. It included recommendations formulated at the XVII IUFRO World Congress in Kyoto, Japan in 1981. Because the wildland resources timber, forage, wildlife, etc. are being depleted most rapidly and are the most difficult to inventory, they have received the most attention. Page 2

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