





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

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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 water resources and water quality management and environmental problems related to aquaculture in the Coastal related to aquaculture in the coastal areas It addresses to 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 Contents Chapter 1 Water and Land Resource Use Environmental Impact from Agriculture and Aquaculture Food Production and Fisheries Perspective of Water Quality Management in Aquaculture Part I Water Resources for coastal Aquaculture Chapter 2 Water Resources Sources of Water Surface Water Ponds Lakes and Reservoirs Streams and Rivers Sea or Saltwater Ground Water Coastal Environment Coastal Areas and Zones Ecological Divisions Marine Environment Rocky Shore Sandy and Muddy Shores Brackish Water or Estuarine Environment Marshes and Mangroves Coastal Regulation Zone Characteristics of Water Resources Environmental Characteristics of Coastal Water Carrying Capacity and Standing Crop Primary Productivity and Food Chain Principles Governing the Coastal Water Ecosystem Aquatic Biodiversity Ecological Factors General Characteristics of Source Water Water Temperature and Circulation Dissolved Oxygen Content pH and Carbon Dioxide Nutrients and Organic Substances Plant and Animal Community Ground Water Characteristics Summary Chapter 3 Water Resource Use in Coastal Area Coastal Fisheries Types of Fisheries Inland Capture Fisheries Marine Fisheries Coastal Aquaculture Types of Aquaculture Production System Species Cultured in Coastal Waters Operation of Coastal Aquaculture Farms Multiple Use of Coastal Resources Coastal Agriculture Constraints Affecting Coastal Agriculture Crop Selection for Salt affected Soils Coastal Forestry Types of Coastal Forests Socio economic Values of Coastal Forests Special Characteristics of Coastal Forestry Waste Disposal and Pollution in Coastal Areas Sources of Pollution Types of Contaminants and Pollutants Major Examples of Coastal Pollution Chapter 4 Impact of Coastal Resource Use on the Environment Impacts on Coastal Environment Alterations and Destruction of Habitats Effects of marine Pollution on Human Health Hypernutrification and Eutrophication Decline of Fish Stocks and Other Renewable Resources Changes in Sediment Flows Potential and Specific Cases of Impacts Agricultural Activities Capture Fisheries and Coastal Aquaculture Activities Multiple Activities Integrated Ecosystem Approach for Resource Use References Part II Water Quality Chapter 5 Water Quality Parameters Classification of Water Quality Parameters Dissolved Oxygen Primary Productivity and Nutrients Temperature Salinity Suspended Solids pH Alkalinity and Hardness Dissolved Gases Biological Parameters Fundamental Principles Equilibrium Relationships Some Thermodynamic Concepts of Equilibria Ionic Equilibrium in Water Ionization of Acid and Bases Solubility Relationship Process Kinetics Rate of a Chemical Reaction Kinetic Models of Homogeneous Reactions Effect of Temperature on Reaction Rate Biological Reaction Systems Kinetics of Enzyme Catalyzed Reactions Kinetics of Microbial Growth Chapter 6 Aquaculture Pond Ecosystem Dynamics of Nutrients in Pond Ecosystem Nitrogen Cycle Phosphorus Cycle Carbon Cycle Dynamics of Dissolved Oxygen in Pond Water Biological Processes Photosynthetic Oxygen Production Oxygen Requirements of Fish Diurnal Changes of Oxygen Concentration in Ponds Diffusional Oxygen Transfer by Natural Aeration DO Concentration Balance in pond Water during Culture Channel

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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 I U F R O 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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