





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?

54 Ecosystems Answer Guide

Alessandro Pelizzon



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number of recent edited volumes each covering a range of topics and consolidating many of the emerging insights in ecological theology The call for Christian churches to respond to the environmental crisis has been reiterated numerous times in this vast corpus of literature also in South Africa

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 Lewis,2012-11-12 The very survival of the planet is at risk human misuse of natural resources and disturbance of natural
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Life Sculpted Anthony J. Martin, 2023-06-02 As the co discoverer of the first known burrowing dinosaur and a popular science author Anthony J Martin is an expert at explaining his fossil finding work to broad audiences In this engaging book Martin uses modern and fossil

traces to introduce readers to a menagerie of animals and other lifeforms that dig crunch bore and otherwise reshape our planet We meet elephants that dig ballroom sized caves alongside volcanoes parrotfishes that chew coral reefs and poop out sandy beaches dinosaur eating crocodiles and moon snails that drill into clams or even other moon snails In a detective story that spans millions of years ranging from microbes to whales Martin shows how when life got hard life got boring using bodies and behavior to hide eat attack and defend affecting both our world and our understanding of evolution climate and life itself

Ecological Jurisprudence Alessandro Pelizzon, 2025-01-11 This open access book explores the rise of ecological jurisprudence a transformative legal theory that challenges traditional legal boundaries Drawing on over 15 years of research and teaching the book offers a comprehensive theoretical exploration of this new approach to law via a comprehensive examination of a wide range of initiatives from around the world as well as a deep theoretical engagement with the implications of this novel legal theory Covering a breadth of topics never before brought together with such clear and wide ranging scope this book points to the emergence of an ecological jurisprudence not only as a profound transformation of legal norms but as a radical reimagination of law itself and serves as a vital resource for scholars and practitioners interested in the future of environmental law Along with Stone's Do Trees Have Standing 1972 Cullinan's Wild Law 2002 and the Ecuadorian Constitution 2008 we can now name Pelizzon's Ecological Jurisprudence as a key milestone in the field Herman F Greene JD DMin Thomas Berry Scholar in Residence The Earth Law Center An immense gift to the field and to generations of lawyers to come Ecological Jurisprudence contains teachings from which one could learn for a lifetime Katarina Hovden University of Copenhagen Alessandro Pelizzon's Ecological Jurisprudence is deeply rooted in how the law can best serve the natural world inspiring future lawyers with the kind of jurisprudence the natural world so urgently needs to exist Maria Mercedes Sanchez Former Coordinator of the United Nations Harmony with Nature Programme Pelizzon coins the term ecological jurisprudence and mobilises it to create deep normative foundations for future environmental law developments Any serious environmental scholar will have to engage with him because of the breadth and depth of what he achieves in this book Professor Afshin Akhtar Khavari QUT

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