

55

Ecosystems and Restoration Ecology



A. Figure 55.1 Why is this Antarctic ice blood red?

KEY CONCEPTS

- 55.1** Physical laws govern energy flow and chemical cycling in ecosystems
- 55.2** Energy and other limiting factors control primary production in ecosystems
- 55.3** Energy transfer between trophic levels is typically only 10% efficient
- 55.4** Biological and geochemical processes cycle nutrients and water in ecosystems
- 55.5** Restoration ecologists help return degraded ecosystems to a more natural state

OVERVIEW

Cool Ecosystem

Three hundred meters below Taylor Glacier, in Antarctica, an unusual community of bacteria lives on sulfur- and iron-containing ions. These organisms thrive in harsh conditions, without light or oxygen and at a temperature of

-10°C , so low that the water would freeze if it weren't three times as salty as the ocean. How has this community survived, isolated from Earth's surface for at least 1.5 million years? The bacteria are chemosynthetic, which obtain energy by oxidizing sulfur taken up from their sulfate-rich environment (see Chapter 27). They use iron as a final electron acceptor in their reactions. When the water flows from the base of the glacier and comes into contact with air, the reduced iron in the water is oxidized and turns red before the water freezes. The distinctive color gives this area of the glacier its name—Blood Falls (**Figure 55.1**).

Together, the bacterial community and surrounding environment make up an **ecosystem**, the sum of all the organisms living in a given area and the abiotic factors with which they interact. An ecosystem can encompass a vast area, such as a lake or forest, or a microcosm, such as the space under a fallen log or a desert spring (**Figure 55.2**). As with populations and communities, the boundaries of ecosystems are not always discrete. Many ecologists view the entire biosphere as a global ecosystem, a composite of all the local ecosystems on Earth.

Regardless of an ecosystem's size, its dynamics involve two processes that cannot be fully described by population or community phenomena: energy flow and chemical cycling. Energy enters most ecosystems as sunlight. It is converted to chemical energy by autotrophs, passed to heterotrophs in the organic compounds of food, and dissipated as heat. Chemical elements, such as carbon and nitrogen, are cycled among abiotic and biotic components of the ecosystem. Photosynthetic and chemosynthetic organisms assimilate these elements in inorganic form from the air, soil, and water and incorporate them into their biomass, some of which is consumed by animals. The elements are returned in inorganic form to the environment by the metabolism of plants and animals and by organisms such as bacteria and fungi that break down organic wastes and dead organisms.

Both energy and matter are transformed in ecosystems through photosynthesis and feeding relationships. But unlike matter, energy cannot be recycled. An ecosystem must be powered by a continuous influx of energy from an external source—in most cases, the sun. Energy flows through ecosystems, whereas matter cycles within and through them.

Resources critical to human survival and welfare, ranging from the food we eat to the oxygen we breathe, are products of ecosystem processes. In this chapter, we will explore the dynamics of energy flow and chemical cycling, emphasizing the results of ecosystem experiments. One way to study ecosystem processes is to alter environmental factors, such as temperature or the abundance of nutrients, and study how ecosystems respond. We will also consider some of the impacts of human activities on energy flow and chemical cycling. Finally, we will explore the growing science of restoration ecology, which focuses on returning degraded ecosystems to a more natural state.

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Sang, 2020-03-12 This book will help decision makers model nature based solutions to the complex problem of sustainable development locally and globally Balancing River Health and Hydropower Requirements in the Lancang River Basin

Xuezhong Yu, Daming He, Phouvin Phousavanh, 2018-09-12 This book assesses river health in the Lancang River Basin with regard to the impacts of hydropower projects It studies key components of the transboundary effects of Chinese dams on the Lancang River including its hydrology sediment transport water temperature and fish community It also investigates the specific impacts of hydropower on women s lives and livelihoods and factors that influence women s participation in river health management In closing the lessons learned regarding environmental protection and hydropower development in the Lancang River Basin are shared e g with hydropower developers and regulators in Laos The Ecology of Plant Litter

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Ecosystem-Based Adaptation Arvind Kumar,2022-02-16 Ecosystem Based Adaptation Approaches to Sustainable Management of Aquatic Resources presents a close examination of the role of ecosystem based adaptation in managing river basins aquifers flood plains and their vegetation to provide water storage and flood regulation Furthermore the book explores improved ecosystem based services for managing floods conservation of water and its resources including watersheds avoiding water scarcity and ensuring long term water security planning all in the context of sustainable development goals This book will help scientists pave the way for easy implementation of sustainable development goals ensuring a secure and sustainable future Presents information in an easy to follow manner using tables figures and graphs where applicable along with case studies from all continents Provides a reference for experts to use as an authoritative source to support environmental action and regulation Delineates the role of ecosystem based adaptation in sustainable management and in the restoration of watershed forests and wetlands *UPSC Prelims Last 10 Years Solved Questions GS Paper-I* R P Meena, UPSC IAS Preliminary Exam General Studies Paper I we are providing here detailed Previous Year Solved Papers 2010 2019 to understand how and why UPSC framed questions in prelims exam These will definitely help you to boost your confidence and score in real exams Oswaal NCERT Exemplar (Problems - Solutions) Class 12 Physics, Chemistry and Biology (Set of 3 Books) For 2024 Board Exam Oswaal Editorial Board,2023-10-28 Description of the product Chapter wise and Topic wise presentation Chapter wise Objectives A sneak peek into the chapter Mind Map A single page snapshot of the entire chapter Revision Notes Concept based study materials Tips Tricks Useful guidelines for attempting each question perfectly Some Commonly Made Errors Most common and unidentified errors are focused Expert Advice Oswaal Expert Advice on how to score more Oswaal QR Codes For Quick Revision on your Mobile Phones and Tablets

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